

ADDENDUM No. 2: December 11, 2014

PROJECT: St. John The Baptist Parish
Volunteer Fire Station #51
LaPlace, Louisiana

PROJECT NO.: SA 21167.00

FROM: SIZELER THOMPSON BROWN ARCHITECTS
300 Lafayette Street, Suite 200
New Orleans, Louisiana 70130
(504) 523-6472

TO: All on Record holding Bid Documents

PROJECT
design group, llc

REGIONAL
design group, llc

HEALTHCARE
design group, llc

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated November 5, 2014. The contents of this Addendum shall be included in the Contract Documents when the Agreement is executed. Changes made by this Addendum take precedence of the Documents of earlier date.

Bidders are advised to call attention of all sub-bidders and suppliers to changes, which may affect their work.

Acknowledge receipt of this Addendum in the space provided on the Bid Form.

MODIFICATIONS TO THE SPECIFICATIONS

Revised Bid Bond is attached. **ATTACHMENT "A"**

Architectural

1. SECTION 08 3613 - SECTIONAL DOORS

Delete the following in 2.3.A.4 "one row"; in lieu thereof, replace with "all rows"

2. SECTION 08 4313 - ALUMINUM-FRAMED STOREFRONTS

Delete the following in 2.1.A.2 "2 inches"; in lieu thereof, replace with "2 1/2 inches"

Delete the following in 2.4.A.1 "1 inch"; in lieu thereof, replace with "1 5/16"inch".

*A Professional
Corporation*

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3. **SECTION 09 6500 - RESILIENT FLOORING**

Delete Section 09 6500 in its entirety and replace with new Section 09 6500 included in this addendum.

4. **SECTION 09 6566 - RESILIENT ATHLETIC FLOORING**

Delete Section 09 6566 in its entirety and replace with new Section 09 6566 included in this addendum.

5. **SECTION 09 6700 - FLUID-APPLIED FLOORING**

Delete Section 09 6700 in its entirety and replace with new Section 09 6700 included in this addendum.

6. **SECTION 09 6813 - TILE CARPETING**

Delete Section 09 6813 in its entirety and replace with new Section 09 6813 included in this addendum.

7. **SECTION 09 9000 - PAINTING AND COATING**

Delete Section 09 9000 in its entirety and replace with new Section 09 9000 included in this addendum.

8. **SECTION 09 9600 - HIGH-PERFORMANCE COATINGS**

Delete Section 09 9600 in its entirety and replace with new Section 09 9600 included in this addendum.

9. **SECTION 32 3129 - WOOD FENCES AND GATES**

Add Section 32 3129 included in this addendum.

Plumbing

10. **SECTION 22 4000 - PLUMBING FIXTURES**

Delete paragraph 22 4000 2.11 INDIVIDUAL SHOWERS in its entirety. In lieu thereof, replace with the following:

"A. Individual Showers, F-7A:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Comfortdesign model 3636SH 4.0:
2. Description: Factory-fabricated gelcoat shower with shower curtain rod. Provide without seat. Verify size, model, and color with architect.
 - a. Shower Faucet: As specified.
 - b. Drain: Grid, NPS 2.

B. ADA Individual Showers, F-7B:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Comfortdesign model 3637BF 3P RRF.
2. Description: ADA compliant, Factory-fabricated gelcoat shower with shower curtain rod, seat, and grab bars. Verify size, model, and color with architect.
 - a. Shower Faucet: As specified.
 - b. Drain: Grid, NPS 2."

MODIFICATIONS TO THE DRAWINGS

11. **G201 LIFE SAFETY PLANS**

Delete sheet G201 in its entirety. In lieu thereof, replace with reissued sheet G201r.

Architectural

12. **A101 & A101alt**

Add note 14 to Site Plan Keynotes to read "**14** 7'-0" high wood fence on concrete retaining wall; Re: C101 for location of retaining wall".

13. **A201**

In the following rooms, add partition type P6 to the south CMU wall along column line 4: Decon Room 126, Storage 125, Radio Office 121, Firemen Ladder 118, and Shop 123.

14. A202

In the following rooms, add partition type P6 to the south CMU wall along column line 4: Men's Showers 208, Unisex Shower 209, Storage 210, Mechanical 211, Firemen Ladder 218, Electrical 213 and Laundry Room 214.

15. A221

Revise details 1/A221, 2/A221 and 5/A221 as indicated on attached sketches ASK001, ASK002 AND ASK003.

16. A801

Revise detail 6/A801 as indicated on attached sketch ASK004.

17. A822

Revise detail 2/A822 as indicated on attached sketch ASK005.

18. A901

Delete the following notes on Partition Type P4 in their entirety:
"Tile height as indicated in interior elevations"
"Tile per finish plans"
"1/2" cementitious backer board at all tile location".

19. A902

Delete sheet A902 in its entirety. In lieu thereof, replace with reissued sheet A902r.

20. A903

Revise detail 8/A903 as indicated on attached sketch ASK004.

Structural

21. S102

The top of steel for the hoist beam is 130'-11", not 130'-3".

22. S102 & S102alt

Add Framing note "A" to designate 1 1/2" roof deck over Apparatus bay between column lines 4 and 9.

23. S204

Delete detail 5/S204 in its entirety.

24. S321

Section 2/S321, the top of steel for the hoist beam is 130'-11", not 130'-3".

Mechanical

25. M002

Refer to clouded areas on sketch MSK003.

26. M005

Refer to clouded areas on sketches MSK001 and MSK002.

27. M101

Refer to clouded areas on reissued sheet M101r.

Plumbing

28. P100

Refer to clouded areas on sketch PSK001.

Change abbreviations "NW" to read "W".

29. P101

Refer to clouded areas on sketch PSK002.

Change reference note 11 to read "Reelcraft series 7000 heavy duty enclosed type retractable compressed air hose reel with min. of 50 ft. heavy duty hose with bumpers. Coordinate installation with architect."

Change reference note 12 to read "Reelcraft series 7000 heavy duty enclosed type retractable water hose reel with min. of 50 ft. heavy duty hose with bumpers. Coordinate installation with architect."

30. P200

Refer to clouded areas on sheet P200r.

Electrical

31. E102

Refer to clouded areas on sketch ESK001.

32. E201

Refer to clouded areas on sketch ESK002.

QUESTION RECEIVED FROM AEGIS CONSTRUCTION INC.

33. Per details on S206 they refer to the foundation plan for slab reinforcing " When you refer to sheet S101 there is no clarification on the slab reinforcing".

Response from SEF engineers: Slab reinforcing is shown on S101.

QUESTIONS RECEIVED FROM LAMAR CONTRACTORS

34. Pre- Engineered Building: The drawings show straight columns, but the spec allows tapered. Please clarify?

The columns should be straight per sheet A802.

35. Pre- Engineered Building: The dwgs/spec state that the building has a sprinkler, hose reels, heaters, water lines, lights, etc hanging from the purlins. Can't find a collateral load on the drawings or spec. Perhaps I am overlooking something. Please verify, supply loads or direct us to where collateral loads are located?

Response from Moses Engineers:

***Wet Sprinkler System Line**

Our office provided basic fire protection drawings and performance specs for the system. The actual system with mains and branches shall be developed by a sprinkler contractor. The weight of the lines shall be the weight of standard piping filled with water.

***Heaters**

Each GUH unit weighs approximately 77 LBS

***Hose Reels (Air, Water, Electrical)**

Electrical Reels weigh 50 LBS each

Water/Air Reels weigh 70 LBS each

***Vehicle Exhaust System**

Each rail is approximately 4 lbs/linear foot. The rails on this project are 52ft long so each would weigh 208 LBS. To be supported from main structural members.

36. Pre- Engineered Building: The spec shows two different roofs. One for the building and one for the living spaces/offices. Is this correct? If not, what type of roof will be on the entire facility?

Yes, this is correct.

37. Pre- Engineered Building: Need the weight (per square foot) for the perlite roof overlay board specified; it will have to be applied to the pre-engineered building design. Please clarify?

See spec section "07 2100 2.4 ACCESSORIES D. Protection board for Above Roof insulation" for product data.

38. Please verify if roof slope on apparatus Bay is 4:12 slope?

**The following are the roof slopes of the entire building:
Administration Wing 4:12 slope
Residential Wing 2:12 slope
Apparatus Wing 4:12 slope**

39. Specifications indicate - Treated Class "B" timber piling ASTM D25 with 7" tip and 12" butt measured 3'-0" from the end, 55'-0" below FF. ***55'-0" Class B Pile is 13-3-7, not 12-3-7. They do make 12-3-7, but it's not considered Class B. Please clarify pile size/type due to cost difference?

Response from SEF engineers - The piling for the project will be treated timber ASTM D25 with a 7" tip and 12" butt measured 3'-0" from the end and driven 55'-0" below FF.

40. Bond form from the specs is made out to State of La. facility planning and control. The advertisement says St. John the Baptist Parish is the owner. Please clarify or provide a new bid bond form.

See Attachment "A" for revised Bid Bond form.

41. All embeds for bar joists that are cast into CMU block or concrete should not be H.D.G. because the galvanizing must be grinded off first before welding.

Response from SEF engineers - All embeds shall be galvanized. At weld points, the galvanizing shall be burned or grinded off. After the welds are made, the area is to be touched up with galvanizing repair compound ASTM A780.

42. Will the front entry apparatus bay 14 x 14 full view glass doors need automatic door openers?

Yes, these door are automatic.

43. Will the rear apparatus bay 14 x 14 standard commercial doors need automatic door openers?

No, these door are manual with pull chain mechanism.

44. Please clarify if both front and rear doors will require being wind rated? If so, what wind rating (mph) will be required?

Yes. The building is a Risk Category IV building that is in a Wind Zone 2 wind-borne debris region. This essential facility should meet the requirements of Large Missile Impact D tests for Enhanced Protection.

45. On 1/A372 dwg detail, there is some type of material above the pre-engineered roof purlins but not indicated on plans. Please clarify if material is to be metal deck or insulation board?

1 1/2" metal deck over purlins; See structural drawings for deck size.

46. Because specs sections 13 3419 and 07 4113 both call out roof panels, can you please clarify if both main building and apparatus roof systems are to receive the same type of roof system?

Yes, the entire building shall receive the metal roof panels as specified in section 07 4113. Pre-engineered metal building subcontractor should not supply the metal roof panels.

47. Door 208A is scheduled to be Aluminum and the type is identified as "other". Please confirm that this Bath Room door is Aluminum and confirm the type of door?

Door 208A is a wood door and is type "F". See reissued sheet A902r.

48. Please confirm that the frame for door 108A should be aluminum or Hollow Metal?

Door 108A frame is a hollow metal frame. See reissued sheet A902r.

49. Door 101A has the following in the comment column of the door schedule:
CR - is this a card reader supplied by 08 7400?
ES - is this electric strike? If so, the exit device would need to be changed to have electronic latch retraction as Electric Strikes are not approved for use on Hurricane rated doors?
EXT - please explain?

CR is card reader and it is specified in section 28 1300 ACCESS CONTROL. No, it is not an electric strike. A magnetic lock is required at aluminum door. It is required to interface with the access control and security system. EXT - Exterior

50. Door 120B, is this door to receive an exit device?

No.

PLUMBING

Proposed Equipment	Manufacturer
Laundry Tub (F-5D) & Mop Sink (F-5C)	Florestone Products
Emergency Eyewash (F-12)	Guardian Equipment
Thermostatic Mixing Valve (TM-4)	Guardian Equipment
Drench Shower Tester	Guardian Equipment
Water Closets (F-1A & F-1B)	Mansfield Plumbing Products
Wall-Hung Lavatories (F-3E & F3F)	Mansfield Plumbing Products
Wall-Hung Lavatories (F-3G & F-3H)	Mansfield Plumbing Products
Gas Fired Unit Heater	Sterling GG
Split System Air Conditioner	Daikin

This ADDENDUM consists of:

10 TYPEWRITTEN ADDENDUM PAGES,
8 ATTACHMENTS

- ATTACHMENT "A" - REVISED BID BOND FORM (1 PAGE)
- SIX (6) REVISED SPECIFICATION SECTIONS (47 PAGES)
- ONE (1) ADDED SPECIFICATION SECTION (2 PAGES)

12 SKETCHES (ASK001, ASK002, ASK003, ASK004, ASK005, MSK001, MSK002, MSK003,
PSK001, PSK002, ESK001, ESK002)

AND

4 FULL SIZE REISSUED SHEETS (G201r, A902r, M101r, P200r)

for a total of SEVENTY-SIX (76) DOCUMENT SHEETS.

BID BOND
FOR
St. John the Baptist Parish Council

Date: _____

KNOW ALL MEN BY THESE PRESENTS:

That _____ of _____, as Principal, and _____, as Surety, are held and firmly bound unto the _____ (Obligee), in the full and just sum of five (5%) percent of the total amount of this proposal, including all alternates, lawful money of the United States, for payment of which sum, well and truly be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents.

Surety represents that it is listed on the current U. S. Department of the Treasury Financial Management Service list of approved bonding companies as approved for an amount equal to or greater that the amount for which it obligates itself in this instrument or that it is a Louisiana domiciled insurance company with at least an A - rating in the latest printing of the A. M. Best's Key Rating Guide. If surety qualifies by virtue of its Best's listing, the Bond amount may not exceed ten percent of policyholders' surplus as shown in the latest A. M. Best's Key Rating Guide.

Surety further represents that it is licensed to do business in the State of Louisiana and that this Bond is signed by surety's agent or attorney-in-fact. This Bid Bond is accompanied by appropriate power of attorney.

THE CONDITION OF THIS OBLIGATION IS SUCH that, whereas said Principal is herewith submitting its proposal to the Obligee on a Contract for:

NOW, THEREFORE, if the said Contract be awarded to the Principal and the Principal shall, within such time as may be specified, enter into the Contract in writing and give a good and sufficient bond to secure the performance of the terms and conditions of the Contract with surety acceptable to the Obligee, then this obligation shall be void; otherwise this obligation shall become due and payable.

PRINCIPAL (BIDDER)

SURETY

BY: _____
AUTHORIZED OFFICER-OWNER-PARTNER

BY: _____
AGENT OR ATTORNEY-IN-FACT(SEAL)

SECTION 09 6500 RESILIENT FLOORING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SECTION INCLUDES

- A. Resilient tile flooring.
- B. Resilient base.
- C. Installation accessories.

1.3 RELATED REQUIREMENTS

- A. Section 01 6116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 03 3000 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors.
- C. Section 09 0561 - Common Work Results for Flooring Preparation: Independent agency testing of concrete slabs, removal of existing floor coverings, cleaning, and preparation.

1.4 REFERENCE STANDARDS

- A. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.
- B. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile; 2004 (Reapproved 2010)e1.
- C. ASTM F1861 - Standard Specification for Resilient Wall Base; 2008 (Reapproved 2012).

1.5 SUBMITTALS

- A. See Section 01 3300 - Submittal Procedures.
- B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- C. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.

- D. Verification Samples: Submit two samples, 12 x 12 inch (304.8 x 304.8 mm) in size illustrating color and pattern for each resilient flooring product specified.
- E. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of sub-floor is acceptable.
- F. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.
- G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 6000 - Product Requirements, for additional provisions.
 - 2. Extra Flooring Material: 1 box of tile for every 50 boxes of tile or fraction thereof, of each type, color and pattern of floor tile installed.
 - 3. Extra Wall Base: 100 linear feet (31 linear meters) of each type and color.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect roll materials from damage by storing on end.
- B. Store floor tile and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F (10 deg C) or more than 90 deg F (32 deg C). Store floor tiles on flat surfaces.

1.7 FIELD CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F (21 deg C) or more than 95 deg F (35 deg C), in spaces to receive floor tile during the following time periods:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.
- B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).
- C. Close spaces to traffic during floor tile installation.
- D. Close spaces to traffic for 48 hours after floor tile installation.
- E. Install floor tile after other finishing operations, including painting, have been completed.

1.8 WARRANTY

- A. Manufacturer's Warranty: Manufacturer to provide limited warranty for transition strips. The warranty period shall be a minimum of 5 years after substantial completion.

- B. Manufacturer's Warranty: Manufacturer to provide warranty for resilient tile flooring. The warranty period shall be a minimum of 6 years after substantial completion.
- C. Special Project Warranty: Submit flooring Installer's Warranty, on warranty form at end of this Section, signed by Installer, covering Work of this Section, for the following warranty period.
 - 1. Warranty Period: 2 years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 TILE FLOORING

- A. Vinyl Composition Tile: Homogeneous, with color extending throughout thickness, and:
 - 1. Minimum Requirements: Comply with ASTM F1066, of Class corresponding to type specified.
 - 2. Size: 12 x 12 inch (305 x 305 mm).
 - 3. VOC Content Limits: As specified in Section 01 6116.
 - 4. Thickness: 0.125 inch (3.2 mm).
 - 5. Pattern: Solid color.
 - 6. Manufacturers:
 - a. Armstrong World Industries, Inc; Product Excelon Chromaspin: www.armstrong.com.
 - b. Mannington Mills, Inc; Product Touchstone: www.mannington.com. **BASIS OF DESIGN.**
 - c. Substitutions: See Section 01 6000 - Product Requirements.
 - d. Substitutions: See Section 01 6300 - Product Substitution Procedures.
 - 1) Product selections are based on physical properties and design qualities integral to the design of the project. All substitutions must meet the criteria stipulated in this section, and the substitution must meet the aesthetic qualities and intent of the design to the satisfaction of the Architect. The Architect's decision regarding this matter is final.
 - 7. Material:
 - a. **BASIS OF DESIGN:** These selections are to be used together as indicated on the drawings. No alterations or substitutions. No exceptions without approval of the Architect.
 - 1) VCT 1: Pewter 9112.
 - 2) VCT 2: Glacier 9122.
 - 3) VCT 3: Tangor 9188.
 - 4) VCT 4: New Geranium 9228.
 - b. Alternate to Basis of Design: These selections are to be used together as indicated on the drawings. No alterations or substitutions. No exceptions without the approval of the Architect.
 - 1) VCT 1-ALT: Carbonite 54802.
 - 2) VCT 2-ALT: Paynes Gray 54801.
 - 3) VCT 3- ALT: Brilliant Orange 54820.
 - 4) VCT 4- ALT: Carminelle 54822.
- B. Luxury Vinyl Tile: Surface pattern type, and:

1. Minimum Requirements: Comply with ASTM F1066, of Class corresponding to type specified.
2. Size: 18 x 36 inch (457 x 914 mm).
3. VOC Content Limits: As specified in Section 01 6116.
4. Thickness: 0.125 inch (3.2 mm).
5. Pattern: Solid color.
6. Manufacturers:
 - a. Armstrong World Industries, Inc; Product Natural Creations: www.armstrong.com.
 - b. Mohawk Group; Product Sereno C0004: www.mohawkgroup.com. **BASIS OF DESIGN.**
 - c. Substitutions: See Section 01 6300 - Product Substitution Procedures.
 - 1) Product selections are based on physical properties and design qualities integral to the design of the project. All substitutions must meet the criteria stipulated in this section, and the substitution must meet the aesthetic qualities and intent of the design to the satisfaction of the Architect. The Architect's decision regarding this matter is final.
7. Materials:
 - a. **BASIS OF DESIGN:**
 - 1) LVT 1: 985 Iguazu.
 - b. Alternate to Basis of Design:
 - 1) LVT 1-ALT: Mystic/ TP715 Silk Scarf Black Silver.

2.2 RESILIENT BASE

- A. Resilient Base: ASTM F1861, Type TS rubber, vulcanized thermoset; top set Style B, Cove, and as follows:
 1. Height: 4 inch (100 mm).
 2. Thickness: 0.125 inch (3.2 mm) thick.
 3. Finish: Matte.
 4. Length: Roll. Continuous Coil.
 5. Color: Solid color.
 6. Manufacturers:
 - a. Johnsonite, a Tarkett Company: www.johnsonite.com. **BASIS OF DESIGN.**
 - b. Roppe Corp: www.roppe.com.
 - c. Substitutions: See Section 01 6300 - Product Substitution Procedures.
 - 1) Product selections are based on physical properties and design qualities integral to the design of the project. All substitutions must meet the criteria stipulated in this section, and the substitution must meet the aesthetic qualities and intent of the design to the satisfaction of the Architect. The Architect's decision regarding this matter is final.
 7. Materials:
 - a. **BASIS OF DESIGN:** These selections are to be used together as indicated on the drawings. No alterations or substitutions. No exceptions without approval of the Architect.
 - 1) RB 1: 63 Burnt Umber.
 - 2) RB 2: 48 Grey.

- b. Alternate to Basis of Design: These selections are to be used together as indicated on the drawings. No alterations or substitutions. No exceptions without the approval of the Architect.
 - 1) RB 1- ALT: 193 Black Brown.
 - 2) RB 2- ALT: 148 Steel Grey.

2.3 ACCESSORIES

- A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
- B. Primers, Adhesives, and Seaming Materials: Waterproof; types recommended by flooring manufacturer.
- C. Moldings, Transition and Edge Strips: Same material as flooring.
- D. Sealer and Wax: Types recommended by flooring manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
- B. Acceptance of Substrate - An Acceptance of substrate shall precede any floor prep or installation, including mock-ups. This Acceptance of Substrate shall be on the Manufacturer's corporate letterhead and be signed by the Manufacturer's representative, the installer and the General Contractor. This Acceptance of substrate shall not include any exceptions to the quality of the surface to which the product is applied. The General Contractor shall insure that all the necessary steps are taken in the proper preparation of this surface, including moisture tests, etc. at the contractor's expense.
- C. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.
- D. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for resilient flooring installation by testing for moisture and pH.
 - 1. Test in accordance with Section 09 0561.
 - 2. Obtain instructions from the flooring manufacture if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.
- E. Verify that required floor-mounted utilities are in correct location.

3.2 PREPARATION

- A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

- B. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
- C. Prohibit traffic until filler is cured.
- D. Clean substrate.
- E. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

3.3 INSTALLATION

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Install in accordance with manufacturer's instructions.
- C. Spread only enough adhesive to permit installation of materials before initial set.
- D. Fit joints tightly.
- E. Set flooring in place, press with heavy roller to attain full adhesion.
- F. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.
- G. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
 - 1. Resilient Strips: Attach to substrate using adhesive.
- H. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

3.4 TILE FLOORING

- A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless manufacturer's instructions say otherwise.
- B. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.

3.5 RESILIENT BASE

- A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between joints.
- B. Miter internal corners. At external corners, 'V' cut back of base strip to 2/3 of its thickness and fold. At exposed ends, use premolded units.
- C. Install base on solid backing. Bond tightly to wall and floor surfaces.
- D. Scribe and fit to door frames and other interruptions.

3.6 CLEANING

- A. Remove excess adhesive from floor, base, and wall surfaces without damage.
- B. Clean in accordance with manufacturer's instructions.

3.7 PROTECTION

- A. Prohibit traffic on resilient flooring for 48 hours after installation.

3.8 FLOORING INSTALLER'S WARRANTY

- A. REFER TO DOCUMENT IMMEDIATELY FOLLOWING THIS SECTION.

END OF SECTION

FLOORING INSTALLER'S WARRANTY

WHEREAS _____ of _____, herein called the "Flooring Installer," has performed flooring and associated work ("work") on the following project:

Owner: _____.

Address: _____.

Building Name/Type: _____.

Address: _____.

Area of Work: _____.

Acceptance Date: _____.

Warranty Period: _____.

Expiration Date: _____.

AND WHEREAS Flooring Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against faulty or defective materials and workmanship for designated Warranty Period.

NOW THEREFORE Flooring Installer hereby warrants, subjected to terms and condition herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a acceptable condition.

This Warranty is made subject to the following terms and conditions:

1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. Act of God;
 - b. Failure of flooring system substrate (not installed by flooring contractor), including cracking, settlement, deterioration, and decomposition;
 - c. Activity on flooring by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Flooring Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designed.
3. Flooring Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from faults or defects of work.

4. During Warranty Period, if Owner allows alteration of work by anyone other than Flooring Installer, including cutting, patching, and maintenance in connection with attachment of other work, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Flooring Installer to perform said alterations, Warranty shall not become null and void unless Flooring Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
5. Owner shall promptly notify Flooring Installer of observed, known, or suspected defects, or deterioration and shall afford reasonable opportunity for flooring installer to inspect work and to examine evidence of such defects, or deterioration.
6. This warranty is recognized to be the only warranty of Flooring Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of flooring failure. Specifically, this Warranty shall not operate to relieve Flooring Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

IN WITNESS THEREOF, this instrument has been duly executed this _____ day of _____, 20____.

Authorized Signature: _____.

Name: _____.

Title: _____.

**SECTION 09 6566
RESILIENT ATHLETIC FLOORING**

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SECTION INCLUDES

- A. Interlocking, loose-laid rubber tile.
- B. Accessories.

1.3 RELATED REQUIREMENTS

- A. Section 01 6116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 03 3000 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors.
- C. Section 09 0561 - Common Work Results for Flooring Preparation: Independent agency testing of concrete slabs, removal of existing floor coverings, cleaning, and preparation.
- D. Section 09 6500 - Resilient Flooring.

1.4 REFERENCE STANDARDS

- A. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension; 2006a (Reapproved 2013).
- B. ASTM D2240 - Standard Test Method for Rubber Property--Durometer Hardness; 2005 (Reapproved 2010).
- C. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.

1.5 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. See Section 01 3300 - Submittal Procedures.
- C. Product Data: Manufacturer's printed data sheets for products specified.
- D. Shop Drawings: Fabrication and installation details, and layout, colors, and widths of game lines and equipment locations.

- E. Selection Samples: Manufacturer's color charts for flooring materials specified, indicating full range of colors and textures available.
- F. Verification Samples: Actual flooring material specified, not less than 12 in (300 mm) square, mounted on solid backing.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer certified in writing by the flooring manufacturer to be qualified for installation of specified flooring system.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to project site in unopened containers clearly labeled with manufacturer's name and identification of contents.
- B. Store materials in dry and clean location until needed for installation. During installation, handle in a manner that will prevent marring and soiling of finished surfaces.

1.8 FIELD CONDITIONS

- A. Maintain temperature in spaces to receive adhesively installed resilient flooring within range of 70-95 degrees F (21-35 degrees C) for not less than 48 hours before the beginning of installation and for not less than 48 hours after installation has been completed. Subsequently, do not allow temperature in installed spaces to drop below 50 degrees F (10 degrees C) or to go above 100 degrees F (38 degrees C).

PART 2 PRODUCTS

2.1 PREFORMED ATHLETIC FLOORING

- A. Rubber Tile Flooring: Recycled rubber material formed into square tiles with invisible interlocking tabs, free-laid without adhesive.
 - 1. Thickness: Minimum 5/16 in (8.0 mm).
 - 2. Size: Nominal 24 in (600 mm) square.
 - 3. Tensile Strength: Minimum 200 psi (1.38 MPa), per ASTM D412.
 - 4. Surface Texture: Smooth.
 - 5. Color: Red.
 - 6. Manufacturers:
 - a. Ecore Everlast; EL05, Color: Rippin'Red 10%:
www.everlastfitnessflooring.com. **BASIS OF DESIGN.**
 - b. Expanko; Reztex Rubber Flooring, Color: Jet Red: www.expanko.com.
 - c. Substitutions: See Section 01 6300 - Product Substitution Procedures.
 - 1) Product selections are based on physical properties and design qualities integral to the design of the project. All substitutions must meet the criteria stipulated in this section, and the substitution must meet the aesthetic qualities and intent of the design to the satisfaction of the Architect. The Architect's decision regarding this matter is final.

2.2 ACCESSORIES

- A. Leveling Compound: Latex-modified cement formulation as recommended by flooring manufacturer for substrate conditions.
- B. Adhesive: Water-resistant type recommended by flooring manufacturer for project conditions.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates for conditions detrimental to installation of athletic flooring. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of athletic flooring to substrate.
- C. Acceptance of Substrate - An Acceptance of substrate shall precede any floor prep or installation, including mock-ups. This Acceptance of Substrate shall be on the Manufacturer's corporate letterhead and be signed by the Manufacturer's representative, the installer and the General Contractor. This Acceptance of substrate shall not include any exceptions to the quality of the surface to which the product is applied. The General Contractor shall insure that all the necessary steps are taken in the proper preparation of this surface, including moisture tests, etc. at the contractor's expense.
- D. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for resilient flooring installation by testing for moisture and pH.
 - 1. Test in accordance with Section 09 0561.
 - 2. Obtain instructions from flooring manufacturer if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

3.2 PREPARATION

- A. Prepare floor substrates for installation of flooring in accordance with Section 09 0561.

3.3 INSTALLATION

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Comply with manufacturer's recommendations and approved shop drawings.
- C. Rubber Tile Flooring:
 - 1. Lay out center lines in spaces to receive tile flooring, based on location of principal walls. Start tile installation from center, and adjust as necessary to avoid tiles less than one-half width at perimeter.

2. Lay tiles square with room axis, matching for color and pattern by selecting from cartons and mixing as recommended by manufacturer.

3.4 CLEANING

- A. Clean flooring using methods recommended by manufacturer.

3.5 PROTECTION

- A. Protect finished athletic flooring from construction traffic to insure that it is without damage upon completion of the work.

3.8 FLOORING INSTALLER'S WARRANTY

- A. REFER TO DOCUMENT IMMEDIATELY FOLLOWING THIS SECTION.

END OF SECTION

FLOORING INSTALLER'S WARRANTY

WHEREAS _____ of _____, herein called the "Flooring Installer," has performed flooring and associated work ("work") on the following project:

Owner: _____.

Address: _____.

Building Name/Type: _____.

Address: _____.

Area of Work: _____.

Acceptance Date: _____.

Warranty Period: _____.

Expiration Date: _____.

AND WHEREAS Flooring Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against faulty or defective materials and workmanship for designated Warranty Period.

NOW THEREFORE Flooring Installer hereby warrants, subjected to terms and condition herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a acceptable condition.

This Warranty is made subject to the following terms and conditions:

1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. Act of God;
 - b. Failure of flooring system substrate (not installed by flooring contractor), including cracking, settlement, deterioration, and decomposition;
 - c. Activity on flooring by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Flooring Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designed.
3. Flooring Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from faults or defects of work.

4. During Warranty Period, if Owner allows alteration of work by anyone other than Flooring Installer, including cutting, patching, and maintenance in connection with attachment of other work, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Flooring Installer to perform said alterations, Warranty shall not become null and void unless Flooring Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
5. Owner shall promptly notify Flooring Installer of observed, known, or suspected defects, or deterioration and shall afford reasonable opportunity for flooring installer to inspect work and to examine evidence of such defects, or deterioration.
6. This warranty is recognized to be the only warranty of Flooring Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of flooring failure. Specifically, this Warranty shall not operate to relieve Flooring Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

IN WITNESS THEREOF, this instrument has been duly executed this _____ day of _____, 20____.

Authorized Signature: _____.

Name: _____.

Title: _____.

SECTION 09 6700 FLUID-APPLIED FLOORING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SECTION INCLUDES

- A. Fluid-applied flooring and base.
- B. Divider strips and accessories.
- C. Integral colored patterns.

1.3 RELATED REQUIREMENTS

- A. Section 01 6116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 07 9005 - Joint Sealers: Joint between base and wall surface.

1.4 REFERENCE STANDARDS

- A. ASTM D570 - Standard Test Method for Water Absorption of Plastics; 1998 (Reapproved 2010).
- B. ASTM D638 - Standard Test Method for Tensile Properties of Plastics; 2010.
- C. ASTM D4060 - Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser; 2010.
- D. ASTM E96/E96M - Standard Test Methods for Water Vapor Transmission of Materials; 2013.
- E. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.
- F. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2011.

1.5 SUBMITTALS

- A. See Section 01 3300 - Submittal Procedures.
- B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns and colors available.

- C. Samples: Submit two samples, 6 x 6 inch (152.4 x 152.4 mm) in size illustrating color and pattern for each floor material for each color specified.
- D. Manufacturer's Installation Instructions: Indicate special procedures.
- E. Maintenance Data: Include maintenance procedures, recommended maintenance materials, procedures for stain removal, repairing surface, and suggested schedule for cleaning.
- F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 6000 - Product Requirements, for additional provisions.
 - 2. Extra Flooring Material: 2 gallons (8 liters) of each color installed.

1.6 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain materials from single source from single manufacturer for each system.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years documented experience.
- C. Applicator Qualifications: Company specializing in performing work of this section with minimum 5 years experience.
- D. Supervisor Qualifications: Trained by product manufacturer, under direct full time supervision of manufacturer's own foreman.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store resin materials in a dry, secure area.
- B. Store materials for three days prior to installation in area of installation to achieve temperature stability.

1.8 FIELD CONDITIONS

- A. Maintain minimum temperature in storage area of 55 degrees F (13 degrees C).
- B. Store materials in area of installation for minimum period of 24 hours prior to installation.
- C. Maintain ambient temperature required by manufacturer 72 hours prior to, during, and 24 hours after installation of materials.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Fluid-Applied Flooring Type RF 1, RF 2 and RF 3 and integral base RFB 1: Epoxy base coat(s) with embedded select aggregates blended with inorganic pigments..

1. System Components: Manufacturer's standard components that are compatible with each other and as follows:
 - a. Primer:
 - 1) Material Basis: Manufacturer's Standard Primer.
 - (a) Stonhard Standard Primer.
 - 2) Resin: Epoxy.
 - 3) Formulation Description: (2) two component, 100 percent solids.
 - 4) Application Method: Squeegee and roller.
 - 5) Number of coats: (1) one.
 - b. Mortar Base:
 - 1) Material Basis: Stonhard; Stoneclad GS (**BASIS OF DESIGN**).
 - 2) Resin: Epoxy.
 - 3) Formulation Description: (3) component, 100 percent solids.
 - 4) Application Method: Metal Trowel.
 - (a) Thickness of Coats: nominal 1/4 inch (6 mm).
 - (b) Number of Coats: (1) one.
 - 5) Aggregates: Pigmented Blended aggregate.
 - c. Top Coat:
 - 1) Material Basis: Stonkote GS4 (**BASIS OF DESIGN**).
 - 2) Resin: Epoxy.
 - 3) Formulation Description: (2) two component 100 percent solids.
 - 4) Type: Pigmented.
 - 5) Finish: Standard.
 - 6) Application Method: Squeegee and roller.
 - 7) Number of Coats: (1) one.
 - 8) Color: Clear.
 - d. Finish:
 - 1) Material Basis: Stonhard, Stonseal ST6 (**BASIS OF DESIGN**).
 - 2) Seal Coat: Polyurethane.
 - 3) Formulation Description: (2) component, UV resistant, clear, aliphatic, polyurethane/polyurea sealer.
 - 4) Application Method: Squeegee and roller.
 - 5) Number of Coats: (1) one, minimum, 3 mil thick.
 - 6) Color: Clear.
2. Thickness: 1/4 inch (6 mm), nominal, when dry.
3. Texture: Slip resistant.
4. Sheen: High gloss.
5. Colors:
 - a. **BASIS OF DESIGN:** Stonhard; Stonclad GS. These selections are to be used together. No alterations or substitutions. No exceptions without approval of the Architect.
 - 1) RF 1: Steel Gray.
 - 2) RF 2: Brick Red.
 - 3) RF 3: Silver Gray.
 - 4) RFB 1: Steel Gray, 6 inch (152 mm) high, typical.
 - b. Alternate A. Dex-O-Tex; Cheminert K. **Alternate** to Basis of Design. These selections are to be used together. No alterations or substitutions. No exceptions without approval of the Architect.

- 1) RF 1- ALT A: Dark Gray.
- 2) RF 2- ALT A: Red.
- 3) RF 3- ALT A: Light Gray.
- 4) RFB 1- ALT A: Dark Gray, 6 inch (152 mm) high, typical.
- 5) Colors to be selected by Architect from manufacturer' full range.
- c. Alternate B. Tnemec; Series 237 Power Tread. Alternate to Basis of Design. These selections are to be used together. No alterations or substitutions. No exceptions without approval of the Architect.
 - 1) RF 1- ALT B: Dark Gray.
 - 2) RF 2- ALT B: Red.
 - 3) RF 3- ALT B: Light Gray.
 - 4) RFB 1- ALT B: Dark Gray, 6 inch (152 mm) high, typical.
6. Products:
 - a. Stonhard, Inc.; Stonclad GS, Stonkote GS4, and Stonseal ST6. **BASIS OF DESIGN.**
 - b. Dex-O-Tex; Cheminert K and Quick Glaze.
 - c. Tnemec; Series 237 Power Tread and Tnemec Series 248 MCU.
 - d. Substitutions: See Section 01 6300 - Product Substitution Procedures.
 - 1) Product selections are based on physical properties and design qualities integral to the design of the project. All substitutions must meet the criteria stipulated in this section, and the substitution must meet the aesthetic qualities and intent of the design to the satisfaction of the Architect. The Architect's decision regarding this matter is final.

2.2 ACCESSORIES

- A. Divider Strips: Zinc, 18 gage thick, minimum, height to match flooring thickness, with anchoring features; color to be selected by Architect from manufacturer's full range..
- B. Control Joint Strips: Match divider strips; 18 gage, minimum, nominal width, 1/8 inch (3 mm) wide neoprene filler strip between side strips, with anchoring features, strip height to suit flooring thickness.
- C. Base Caps, and Separator Strips: Match divider strips, with projecting base of 1/8 inch (3 mm).
- D. Cant Strips: Molded of flooring resin material.
- E. Subfloor Filler: White premix latex; type recommended by flooring material manufacturer.
- F. Primers and Adhesives: Waterproof; types recommended by flooring manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive flooring.

- B. Acceptance of Substrate - An Acceptance of substrate shall precede any floor prep or installation, including mock-ups. This Acceptance of Substrate shall be on the Manufacturer's corporate letterhead and be signed by the Manufacturer's representative, the installer and the General Contractor. This Acceptance of substrate shall not include any exceptions to the quality of the surface to which the product is applied. The General Contractor shall insure that all the necessary steps are taken in the proper preparation of this surface, including moisture tests, etc. at the contractor's expense.
- C. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive flooring.
- D. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of materials to sub-floor surfaces.
- E. Verify that concrete sub-floor surfaces are ready for flooring installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by flooring materials manufacturer.
 - 1. See Section 09 0561 for testing procedures.
 - 2. See Section 09 0562 for remediation procedures.
- F. No work relating to this specification section is to proceed until the concrete slab has been approved in writing by the flooring materials manufacturer and the documented acceptance has been received by the Architect.
- G. Verify that required floor-mounted utilities are in correct location.

3.2 PREPARATION

- A. Remove sub-floor ridges and bumps. Fill low spots, cracks, joints, holes, and other defects with sub-floor filler.
- B. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Grind irregularities above the surface level. Prohibit traffic until filler is cured.
- C. Vacuum clean substrate.
- D. Apply primer to surfaces required by flooring manufacturer.
- E. Prepare vertical surfaces for integral 6 inch (152 mm) high resinous cove bases in areas scheduled for resinous flooring system as indicated on the drawings.

3.3 INSTALLATION - FLOORING

- A. Apply in accordance with manufacturer's instructions.
- B. Apply each coat to minimum thickness indicated.
- C. Finish to smooth level surface.
- D. Install flooring in recessed type floor access covers.

- E. Cove at vertical surfaces.
 - 1. Integral cove base: Apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's written instructions and shop drawing details including those for taping, mixing, priming, troweling, and sanding of cove base. Round internal and external corners.
 - a. Height: 6 inch (152 mm), typical.

3.4 PROTECTION

- A. Prohibit traffic on floor finish for 48 hours after installation.
- B. Barricade area to protect flooring until cured.

3.5 FLOORING INSTALLER'S WARRANTY

- A. REFER TO DOCUMENT IMMEDIATELY FOLLOWING THIS SECTION.

END OF SECTION

FLOORING INSTALLER'S WARRANTY

WHEREAS _____ of _____, herein called the "Flooring Installer," has performed flooring and associated work ("work") on the following project:

Owner: _____.

Address: _____.

Building Name/Type: _____.

Address: _____.

Area of Work: _____.

Acceptance Date: _____.

Warranty Period: _____.

Expiration Date: _____.

AND WHEREAS Flooring Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against faulty or defective materials and workmanship for designated Warranty Period.

NOW THEREFORE Flooring Installer hereby warrants, subjected to terms and condition herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a acceptable condition.

This Warranty is made subject to the following terms and conditions:

1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. Act of God;
 - b. Failure of flooring system substrate (not installed by flooring contractor), including cracking, settlement, deterioration, and decomposition;
 - c. Activity on flooring by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Flooring Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designed.
3. Flooring Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from faults or defects of work.

4. During Warranty Period, if Owner allows alteration of work by anyone other than Flooring Installer, including cutting, patching, and maintenance in connection with attachment of other work, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Flooring Installer to perform said alterations, Warranty shall not become null and void unless Flooring Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
5. Owner shall promptly notify Flooring Installer of observed, known, or suspected defects, or deterioration and shall afford reasonable opportunity for flooring installer to inspect work and to examine evidence of such defects, or deterioration.
6. This warranty is recognized to be the only warranty of Flooring Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of flooring failure. Specifically, this Warranty shall not operate to relieve Flooring Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

IN WITNESS THEREOF, this instrument has been duly executed this _____ day of _____, 20____.

Authorized Signature: _____.

Name: _____.

Title: _____.

**SECTION 09 6813
TILE CARPETING**

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SECTION INCLUDES

- A. Carpet tile, fully adhered.

1.3 RELATED REQUIREMENTS

- A. Section 01 6116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 03 3000 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors.
- C. Section 09 0561 - Common Work Results for Flooring Preparation: Independent agency testing of concrete slabs, removal of existing floor coverings, cleaning, and preparation.

1.4 REFERENCE STANDARDS

- A. ASTM D2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials; 2006 (Reapproved 2011).
- B. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.
- C. CRI (CIS) - Carpet Installation Standard; Carpet and Rug Institute; 2009.
- D. CRI (GLP) - Green Label Plus Carpet Testing Program - Approved Products; Carpet and Rug Institute; Current Edition.

1.5 SUBMITTALS

- A. Substitutions: See Section 01 6300 - Product Substitution Procedures.
- B. Shop Drawings: Indicate layout of joints, direction of carpet pile, and location of edge moldings.
- C. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.

- D. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.
- E. Submit two, 12 inch (305 mm) long samples of edge strip.
- F. Manufacturer's Installation Instructions: Indicate special procedures.
- G. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.
- H. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 6000 - Product Requirements, for additional provisions.
 - 2. Extra Carpet Tiles: Quantity equal to 5 percent of total installed of each color and pattern installed.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing specified carpet tile with minimum five years documented experience.
- B. Installer Qualifications: Company specializing in installing carpet with minimum five years documented experience.

1.7 FIELD CONDITIONS

- A. Store materials in area of installation for minimum period of 24 hours prior to installation.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components that fail in material or workmanship within the specified warranty period.
 - 1. Warranty Period: Lifetime/Commercial Limited.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Shaw Contract Group: www.shawcontractgroup.com.
- B. Other Acceptable Manufacturers:
 - 1. Interface, Inc: www.interfaceinc.com.
 - 2. Substitutions: See Section 01 6000 - Product Requirements.
 - a. Product selections are based on physical properties and design qualities integral to the design of the project. All substitutions must meet the criteria stipulated in this section, **and the substitution must meet the aesthetic qualities and intent of the design to the satisfaction of the Architect. The Architect's decision regarding this matter is final.**

2.2 MATERIALS

- A. **Basis of Design:** These selections are to be used together. No alterations or substitutions. No exceptions without approval of the Architect.
1. Carpet Tile Type CPT 1: Multi-level Pattern Loop, manufactured in one color dye lot.
 - a. Product: Vibrant Tile 5T001/Light Series Collection manufactured by Shaw Contract Group.
 - b. Dye Method: 100 percent solution dyed.
 - c. Tile Size: 24 x 24 inch (610 x 610 mm), nominal.
 - d. Thickness: 0.235 inch (5.97 mm).
 - e. Finished Pile Thickness: 0.116 inch (2.95 mm).
 - f. Color: Beam 01557.
 - g. Pattern Repeat: None.
 - h. VOC Content: Provide CRI Green Label Plus certified product; in lieu of labeling, independent test report showing compliance is acceptable.
 - i. Static Control Fiber: Eco Solution q nylon.
 - j. Gage: 1/12 inch (4.724 mm).
 - k. Stitches: 10 per inch (3.94 per cm).
 - l. Pile Weight: 20 oz/sq yd (678.11 gm/sq m).
 - m. Density Factor: 11.56 kilotex.
 - n. Primary Backing Material: Synthetic.
 - o. Secondary Backing Material: Ecoworx Tile.
 - p. Protective Treatments: SSP Shaw Soil Protection.
 - q. Testing:
 - 1) Radiant Panel: Class I.
 - 2) NBS Smoke: Less the 450.
 - 3) Electrostatic Propensity: Less than 3.5 kv.
 2. Carpet Tile Type CPT 2: Multi-level Pattern Loop, manufactured in one color dye lot.
 - a. Product: Visible Tile 5T002/Light Series Collection manufactured by Shaw Contract Group.
 - b. Dye Method: 100 percent solution dyed.
 - c. Tile Size: 24 x 24 inch (610 x 610 mm), nominal.
 - d. Thickness: 0.239 inch (6.07 mm).
 - e. Finished Pile Thickness: 0.108 inch (2.74 mm).
 - f. Color: Beam 01557.
 - g. Pattern Repeat: None.
 - h. VOC Content: Provide CRI Green Label Plus certified product; in lieu of labeling, independent test report showing compliance is acceptable.
 - i. Static Control Fiber: Eco Solution q nylon.
 - j. Gage: 1/12 inch (4.724 mm).
 - k. Stitches: 10 per inch (3.94 per cm).
 - l. Pile Weight: 20 oz/sq yd (678.11 gm/sq m).
 - m. Density Factor: 12.41 kilotex.
 - n. Primary Backing Material: Synthetic.
 - o. Secondary Backing Material: Ecoworx Tile.
 - p. Protective Treatments: SSP Shaw Soil protection.
 - q. Testing:

- 1) Radiant Panel: Class I.
 - 2) NBS Smoke: Less than 450.
 - 3) Electrostatic Propensity: Less than 3.5 kv.
- B. Alternate to Basis of Design. These selections are to be used together. No alterations or substitutions. No exceptions without approval of the Architect.
1. Carpet Tile Type CPT 1: Multi-level Pattern Loop, manufactured in one color dye lot.
 - a. Product: Base Line/Outside the Lines Collection manufactured by Interface.
 - b. Tile Size: 19.69 x 19.69 inch (500 x 500 mm), nominal.
 - c. Color: Green/Base 7408.
 2. Carpet Tile Type CPT 2: Multi-level Pattern Loop, manufactured in one color dye lot.
 - a. Product: Color Line/Outside the Lines Collection manufactured by Interface.
 - b. Tile Size: 19.69 x 19.69 inch (500 x 500 mm), nominal.
 - c. Color: Green/Color 5316.

2.3 ACCESSORIES

- A. Sub-Floor Filler: White premix latex; type recommended by flooring material manufacturer.
- B. Edge Strips: Rubber, color as selected.
 1. As selected by Architect from manufacturer's full range.
- C. Adhesives: Acceptable to carpet tile manufacturer, compatible with materials being adhered; maximum VOC of 50 g/L; CRI Green Label certified; in lieu of labeled product, independent test report showing compliance is acceptable.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that sub-floor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.
- B. Acceptance of Substrate - An Acceptance of substrate shall precede any floor prep or installation, including mock-ups. This Acceptance of Substrate shall be on the Manufacturer's corporate letterhead and be signed by the Manufacturer's representative, the installer and the General Contractor. This Acceptance of substrate shall not include any exceptions to the quality of the surface to which the product is applied. The General Contractor shall insure that all the necessary steps are taken in the proper preparation of this surface, including moisture tests, etc. at the contractor's expense.
- C. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive carpet tile.
- D. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.

- E. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for flooring installation by testing for moisture and pH.
 - 1. Test in accordance with Section 09 0561.
 - 2. Obtain instructions from flooring manufacturer if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.
- F. Verify that required floor-mounted utilities are in correct location.

3.2 PREPARATION

- A. Prepare floor substrates for installation of flooring in accordance with Section 09 0561.

3.3 INSTALLATION

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Install carpet tile in accordance with manufacturer's instructions and CRI Carpet Installation Standard.
- C. Blend carpet from different cartons to ensure minimal variation in color match.
- D. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.
- E. Lay carpet tile in Monolithic pattern, with pile direction parallel to next unit, set parallel to building lines.
 - 1. Installation Method: Monolithic Pattern.
- F. Locate change of color or pattern between rooms under door centerline.
- G. Fully adhere carpet tile to substrate.
- H. Trim carpet tile neatly at walls and around interruptions.
- I. Complete installation of edge strips, concealing exposed edges.

3.4 CLEANING

- A. Remove excess adhesive without damage, from floor, base, and wall surfaces.
- B. Clean and vacuum carpet surfaces.

3.8 FLOORING INSTALLER'S WARRANTY

- A. REFER TO DOCUMENT IMMEDIATELY FOLLOWING THIS SECTION.

END OF SECTION

FLOORING INSTALLER'S WARRANTY

WHEREAS _____ of _____, herein called the "Flooring Installer," has performed flooring and associated work ("work") on the following project:

Owner: _____.

Address: _____.

Building Name/Type: _____.

Address: _____.

Area of Work: _____.

Acceptance Date: _____.

Warranty Period: _____.

Expiration Date: _____.

AND WHEREAS Flooring Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against faulty or defective materials and workmanship for designated Warranty Period.

NOW THEREFORE Flooring Installer hereby warrants, subjected to terms and condition herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a acceptable condition.

This Warranty is made subject to the following terms and conditions:

1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. Act of God;
 - b. Failure of flooring system substrate (not installed by flooring contractor), including cracking, settlement, deterioration, and decomposition;
 - c. Activity on flooring by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Flooring Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designed.
3. Flooring Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from faults or defects of work.

4. During Warranty Period, if Owner allows alteration of work by anyone other than Flooring Installer, including cutting, patching, and maintenance in connection with attachment of other work, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Flooring Installer to perform said alterations, Warranty shall not become null and void unless Flooring Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
5. Owner shall promptly notify Flooring Installer of observed, known, or suspected defects, or deterioration and shall afford reasonable opportunity for flooring installer to inspect work and to examine evidence of such defects, or deterioration.
6. This warranty is recognized to be the only warranty of Flooring Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of flooring failure. Specifically, this Warranty shall not operate to relieve Flooring Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

IN WITNESS THEREOF, this instrument has been duly executed this _____ day of _____, 20____.

Authorized Signature: _____.

Name: _____.

Title: _____.

**SECTION 09 9000
PAINTING AND COATING**

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SECTION INCLUDES

- A. Surface preparation.
- B. Field application of stains.
- C. Scope: Finish all interior and exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
 - 1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
 - 2. Elevator pit ladders.
 - 3. Exposed surfaces of steel lintels and ledge angles.
 - 4. Mechanical and Electrical:
 - a. In finished areas, paint all insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated.
 - b. In finished areas, paint shop-primed items.
- D. Do Not Paint or Finish the Following Items:
 - 1. Items fully factory-finished unless specifically so indicated; materials and products having factory-applied primers are not considered factory finished.
 - 2. Items indicated to receive other finishes.
 - 3. Items indicated to remain unfinished.
 - 4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
 - 5. Stainless steel, anodized aluminum, bronze, terne, and lead items.
 - 6. Marble, granite, slate, and other natural stones.
 - 7. Floors, unless specifically so indicated.
 - 8. Ceramic and other tiles.
 - 9. Brick, architectural concrete, cast stone, integrally colored plaster and stucco.
 - 10. Glass.
 - 11. Acoustical materials, unless specifically so indicated.

1.3 RELATED REQUIREMENTS

- A. Section 01 6116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 05 5000 - Metal Fabrications: Shop-primed items.

- C. Section 05 5100 - Metal Stairs: Shop-primed items.
- D. Section 09 9600 - High-Performance Coatings.
- E. Section 21 - Identification for Fire Suppression Piping and Equipment: Painted Identification.
- F. Section 22 - Identification for Plumbing Piping and Equipment: Painted Identification.
- G. Section 23 - Identification for HVAC Piping and Equipment: Painted Identification.
- H. Section 26 - Identification for Electrical Systems: Painted identification.
- I. Section 32 - Painted Pavement Markings: Painted pavement markings.

1.4 DEFINITIONS

- A. Conform to ASTM D16 for interpretation of terms used in this section.

1.5 REFERENCE STANDARDS

- A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency; current edition.
- B. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2012.
- C. SSPC (PM1) - Good Painting Practice: SSPC Painting Manual, Vol. 1; Society for Protective Coatings; Fourth Edition.

1.6 SUBMITTALS

- A. See Section 01 3300 - Submittal Procedures.
- B. Product Data: Provide complete list of all products to be used, with the following information for each:
 - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
 - 2. MPI product number (e.g. MPI #47).
 - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
 - 4. Manufacturer's installation instructions.
 - 5. If proposal of substitutions is allowed under submittal procedures, explanation of all substitutions proposed.
- C. Samples: Submit two paper chip samples, 12 x 12 inch (304.8 x 304.8 mm) in size illustrating range of colors available for each surface finishing product scheduled.
- D. Certification: By manufacturer that all paints and coatings comply with VOC limits specified.

- E. Manufacturer's Instructions: Indicate special surface preparation procedures and substrate conditions requiring special attention.
- F. Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, material safety data sheets (MSDS), care and cleaning instructions, touch-up procedures, repair of painted and coated surfaces, and color samples of each color and finish used.
- G. Maintenance Data: Submit data on cleaning, touch-up, and repair of painted and coated surfaces.
- H. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 6000 - Product Requirements, for additional provisions.
 - 2. Extra Paint and Coatings: 1 gallon (4 L) of each color; store where directed.
 - 3. Label each container with color in addition to the manufacturer's label.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum five years documented experience.
- B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum 3 years experience and approved by manufacturer.

1.8 MOCK-UP

- A. See Section 01 4000 - Quality Requirements, for general requirements for mock-up.
- B. Provide door and frame assembly illustrating paint coating color, texture, and finish.
- C. Locate where directed by Architect.
- D. Mock-up may remain as part of the work.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

1.10 FIELD CONDITIONS

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Minimum Application Temperatures for Latex Paints: 45 degrees F (7 degrees C) for interiors; 50 degrees F (10 degrees C) for exterior; unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Provide all paint and coating products used in any individual system from the same manufacturer; no exceptions.
- B. Provide all paint and coating products from the same manufacturer to the greatest extent possible.
 - 1. In the event that a single manufacturer cannot provide all specified products, minor exceptions will be permitted provided approval by Architect is obtained using the specified procedures for substitutions.
 - 2. Substitution of other products by the same manufacturer is preferred over substitution of products by a different manufacturer.
- C. Paints:
 - 1. Benjamin Moore & Co (**BM**): www.benjaminmoore.com. (**Basis of Design**).
 - 2. PPG Architectural Finishes, Inc. (**PPG**): www.ppgaf.com.
 - 3. Sherwin-Williams Company (**SW**): www.sherwin-williams.com.
- D. Primer Sealers: Same manufacturer as top coats.
- E. Block Fillers: Same manufacturer as top coats.
- F. Substitutions: See Section 01 6000 - Product Requirements.
 - 1. Product selections are based on physical properties and design qualities integral to the design of the project. All substitutions must meet the criteria stipulated in this section, **and the substitution must meet the aesthetic qualities and intent of the design to the satisfaction of the Architect. The Architect's decision regarding this matter is final.**

2.2 PAINTS AND COATINGS - GENERAL

- A. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.
 - 1. Provide paints and coatings of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.

2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
 3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
 4. Supply each coating material in quantity required to complete entire project's work from a single production run.
 5. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
- B. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.
- C. Volatile Organic Compound (VOC) Content: Comply with Section 01 6116.
- D. Flammability: Comply with applicable code for surface burning characteristics.
- E. Colors: Unless indicated otherwise, colors will be selected by the Architect from the manufacturer's full range.
1. Extend colors to surface edges; colors may change at any edge as directed by Architect.
 2. In finished areas, finish pipes, ducts, conduit, and equipment the same color as the wall/ceiling they are mounted on/under.
 - a. Unless directed otherwise by the Architect.
 3. In utility areas, finish equipment, piping, conduit, and exposed duct work in colors according to the color schedule.

2.3 PAINT SYSTEMS - EXTERIOR

- A. Paint EC-OP - All Exterior Concrete and Masonry Surfaces Indicated to be Painted, Unless Otherwise Indicated: Including concrete, concrete masonry, brick, and cement board.
1. Preparation as specified by manufacturer.
 2. Two top coats and one coat primer recommended by manufacturer.
 3. Semi-Gloss: MPI gloss level 5; use this sheen for items subject to frequent touching including metal doors and frames and plaster ceilings, wet mils: 5.4 mil to 8.2 / dry mils: 2.0 to 3.0 per coat.
- B. Paint GE-OP-3L - Gypsum Board and Plaster, Opaque, Latex, 3 Coat:
1. One coat of acrylic latex primer sealer.
 - a. BM: Fresh Start, 023.
 - b. PPG: Seal Grip Interior/Exterior Acrylic Universal Primer/Sealer, 17-921 (White).
 - c. SW: ProBlock, B51W20.
 2. Semi-Gloss: Two coats of Epoxy finish:
 - a. BM: Acrylic Epoxy Coating (Semi-Gloss), M43/M44.
 - b. PPG: Pitt-Glaze Water-Borne Acrylic Epoxy (Semi-Gloss), 16-551 Series.
 - c. SW: High Performance Epoxy (Gloss), B67W201.
 3. Soffit Color to be selected by the Architect from the manufacturer's full range.

- C. Paint ME-OP-3L - Ferrous Metals, Unprimed, Latex, 3 Coat:
 - 1. One coat of latex primer:
 - a. BM: Super Spec HC Metal Primer, P04.
 - b. PPG: Pitt-Tech Plus Interior/Exterior DTM Industrial Primer, 90-912 Series.
 - c. SW: Pro-Cryl Universal Primer, B66-310 Series.
 - 2. Semi-gloss: Two coats of latex enamel:
 - a. BM: Acrylic Epoxy Coating (Semi-Gloss), M43/M44.
 - b. PPG: Pitt-Glaze WB Water-Borne Acrylic Epoxy (Semi-Gloss), 16-551 Series.
 - c. SW: High Performance Epoxy (Gloss), B67W201.
- D. Paint MgE-OP-3L - Galvanized Metals, Latex, 3 Coat:
 - 1. One coat acrylic latex primer.
 - a. BM: Super Spec HC Metal Primer, P04.
 - b. PPG: Pitt-Tech Plus Interior/Exterior DTM Industrial Primer, 90-912 Series.
 - c. SW: Pro-Cryl Universal Primer, B66-310 Series.
 - 2. Semi-gloss: Two coats of latex enamel.
 - a. BM: Acrylic Epoxy Coating (Semi-Gloss), M43/M44.
 - b. PPG: Pitt-Glaze WB Water-Borne Acrylic Epoxy (Semi-Gloss), 16-551 Series.
 - c. SW: High Performance Epoxy (Gloss), B67W201.

2.4 PAINT SYSTEMS - INTERIOR

- A. Paint I-OP - All Interior Surfaces Indicated to be Painted, Unless Otherwise Indicated: Including gypsum board, concrete, concrete masonry, brick, plaster, uncoated steel, shop primed steel, and galvanized steel.
 - 1. Two top coats and one coat primer.
 - 2. Flat: MPI gloss level 1; use this sheen for ceilings and other overhead surfaces.
 - a. 4 wet mils, 1.3 dry mils per coat, minimum.
 - 3. Eggshell: MPI gloss level 3; use this sheen for gypsum board vertical surfaces.
 - a. 4 wet mils, 1.6 dry mils per coat, minimum.
 - 4. Semi-Gloss: MPI gloss level 5; use this sheen for items subject to frequent touching by occupants, including doors, door frames, and unfinished metallic items not to receive a high performance coating.
 - a. 4 wet mils, 1.5 dry mils per coat, minimum.
 - 5. Primer(s): As recommended by manufacturer of top coats.
- B. Paint CI-OP-3L - Concrete/Masonry, Opaque, Latex, 3 Coat; **Areas not to receive Epoxy Paint:**
 - 1. One coat of block filler.
 - a. BM: Latex Block Filler, M88.
 - b. PPG: Speedhide Interior/Exterior Masonry Block Filler Latex, 6-7.
 - c. SW: PrepRite Latex Block Filler, B25W25.
 - 2. Semi-gloss: Two coats of latex enamel:
 - a. BM: Natura, 514.
 - b. PPG: Pure Performance Interior Semi-Gloss Latex, 9-500 Series.
 - c. SW: Harmony, B10W951.
- C. Paint CI-OP-2L - Concrete/Masonry, Opaque, Latex, 2 Coat; **Areas to receive Epoxy Paint:**

1. One coat of block filler.
 - a. BM: Moorcraft Interior/Exterior Filler, 173.
 - b. PPG: Pitt-Glaze Interior/Exterior Block Filler Latex, 16-90.
 - c. SW: Heavy Duty Block Filler, B42W46.
 2. Semi-gloss: One coat of epoxy:
 - a. BM: Acrylic Epoxy Coating (Semi-Gloss), M43/M44.
 - b. PPG: Pitt-Glaze WB Water-Borne Acrylic Epoxy (Semi-Gloss), 16-551 Series.
 - c. SW: High Performance Epoxy (Gloss), B67W201.
- D. Paint MI-OP-3L - Ferrous Metals, Unprimed, Latex, 3 Coat:
1. One coat of latex primer.
 - a. BM: Super Spec HP Metal Primer, P04.
 - b. PPG: Pitt-Tech Plus Interior/Exterior DTM Industrial Primer, 90-912 Series.
 - c. SW: Pro-Cryl Universal Primer, B66-310 Series.
 2. Semi-gloss: Two coats of latex enamel:
 - a. BM: Acrylic Epoxy Coating (Semi-Gloss), M43/M44.
 - b. PPG: Pitt-Glaze WB Water-Borne Acrylic Epoxy (Semi-Gloss), 16-551 Series.
 - c. SW: High Performance Epoxy (Gloss), B67W201.
- E. Paint Mgl-OP-3L - Galvanized Metals, Latex, 3 Coat:
1. One coat acrylic latex primer.
 - a. BM: Super Spec HP Metal Primer, P04.
 - b. PPG: Pitt-Tech Plus Interior/Exterior DTM Industrial Primer, 90-912 Series.
 - c. SW: Pro-Cryl Universal Primer, B66-310 Series.
 2. Semi-gloss: Two coats of latex enamel.
 - a. BM: Acrylic Epoxy Coating (Semi-Gloss), M43/M44.
 - b. PPG: Pitt-Glaze WB Water-Borne Acrylic Epoxy (Semi-Gloss), 16-551 Series.
 - c. SW: High Performance Epoxy (Gloss), B67W201.
- F. Paint GI-OP-3L - Gypsum Board/Plaster, Latex, 3 Coat; **Areas not to receive Epoxy Paint** (Ceilings):
1. One coat of latex primer sealer.
 - a. BM: Super Spec, 253.
 - b. PPG: Speedhide Interior Latex Sealer Quci Drying, 6-2.
 - c. SW: PrepRite 200, B28W200.
 2. Flat: Two coats of latex enamel:
 - a. BM: Natura, 512.
 - b. PPG: Pure Performance Interior Flat Latex, 9-100 Series.
 - c. SW: Harmony, B5W951.
 3. Ceiling Color to be white as selected by the Architect from the manufacturer's full range.
- G. Paint GI-OP-3L - Gypsum Board/Plaster, Latex, 3 Coat; **Areas not to receive Epoxy Paint** (Walls):
1. One coat of latex primer sealer.
 - a. BM: Super Spec, 253.
 - b. PPG: Speedhide Interior Latex Sealer Quick Drying, 6-2.
 - c. SW: PrepRite 200, B28W200.
 2. Eggshell: Two coats of latex enamel:

- a. BM: Natura, 513.
 - b. PPG: Pure Performance Interior Eggshell Latex, 9-300 Series.
 - c. SW: Harmony, B9W951.
- H. Paint GI-OP-3L - Gypsum Board/Plaster, Latex, 3 Coat; **Areas to receive Epoxy Paint** (Ceilings and Walls):
1. One coat of latex primer sealer:
 - a. BM: Super Spec, 253.
 - b. PPG: Speedhide Interior Latex Sealer Quick Drying, 6-2.
 - c. SW: PrepRite 200, B28W200.
 2. Semi-gloss: Two coats of latex enamel:
 - a. BM: Acrylic Epoxy Coating (Semi-Gloss), M43/M44.
 - b. PPG: Pitt-Glaze WB Water-Borne Acrylic Epoxy (Semi-Gloss), 16-551.
 - c. SW: High Performance Epoxy (Gloss), B67W201.
 3. Ceiling Color to be white as selected by the Architect from the manufacturer's full range.

2.5 ACCESSORY MATERIALS

- A. Accessory Materials: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required to achieve the finishes specified whether specifically indicated or not; commercial quality.
- B. Patching Material: Latex filler.
- C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin application of coatings until substrates have been properly prepared.
- B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- D. Test shop-applied primer for compatibility with subsequent cover materials.
- E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 1. Gypsum Wallboard: 12 percent.
 2. Plaster and Stucco: 12 percent.
 3. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.

3.2 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to coating application.

- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or repair existing coatings that exhibit surface defects.
- D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
- E. Seal surfaces that might cause bleed through or staining of topcoat.
- F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- G. Concrete and Unit Masonry Surfaces to be Painted: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.
- H. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.
- I. Plaster Surfaces to be Painted: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- J. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
- K. Corroded Steel and Iron Surfaces to be Painted: Prepare using at least SSPC-SP 2 (hand tool cleaning) or SSPC-SP 3 (power tool cleaning) followed by SSPC-SP 1 (solvent cleaning).
- L. Uncorroded Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand or power tool wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.
- M. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
- N. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.3 APPLICATION

- A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. Apply products in accordance with manufacturer's instructions.

- C. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- D. Apply each coat to uniform appearance.
- E. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply as many coats as necessary for complete hide.
- F. Sand metal surfaces lightly between coats to achieve required finish.
- G. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- H. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.4 FIELD QUALITY CONTROL

- A. See Section 01 4000 - Quality Requirements, for general requirements for field inspection.
- B. Owner will provide field inspection.

3.5 CLEANING

- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.6 PROTECTION

- A. Protect finished coatings until completion of project.
- B. Touch-up damaged coatings after Substantial Completion.

3.7 SCHEDULE - PAINT SYSTEMS

- A. Refer to paragraph 2.3 (Exterior) and paragraph 2.4 (Interior) for Paint System description. Refer to drawings for specific locations.
 - 1. Concrete, Concrete Block, Brick Masonry: Finish all surfaces exposed to view.
 - a. Interior: CI-OP-3L (Areas not to receive Epoxy Paint).
 - b. Interior: CI-OP-2L (Area to receive Epoxy Paint).
 - 2. Gypsum Board: Finish all surfaces exposed to view.
 - a. Interior Ceilings and Bulkheads: GI-OP-3L (Areas not to receive Epoxy Paint).
 - b. Interior Ceilings, Bulkheads and Walls: GI-OP-3L (Areas to receive Epoxy Paint).
 - c. Interior Walls: GI-OP-3L (Areas not to receive Epoxy Paint).
 - 3. Plaster: Finish all surfaces exposed to view.
 - a. Exterior Soffits: GE-OP-3L.
 - 4. Steel Doors and Frames: Finish all surfaces exposed to view:
 - a. Interior: MI-OP-3L.

- b. Exterior: ME-OP-3L.
- 5. Steel Fabrications: Finish all surfaces exposed to view, except structural steel and other items to receive high performance coating- see Section 09 9600 High Performance Coatings.
 - a. Exterior: ME-OP-3L, semi-gloss; finish all surfaces, including concealed surfaces, before installation.
 - b. Interior: MI-OP-3L, semi-gloss.
- 6. Galvanized Steel: Finish all surfaces exposed to view, except structural steel and other items to receive high performance coating- see Section 09 9600 High Performance Coatings.
 - a. Exterior: MgE-OP-3L.
 - b. Interior: Mgl-OP-3L.
- 7. Shop-Primed Metal Items: Finish all surfaces exposed to view.
 - a. Finish the following items:
 - 1) Elevator pit ladders.
 - b. Exterior: MgE-OP-3L.
 - c. Interior: Mgl-OP-3L, semi-gloss.

3.8 SCHEDULE - COLORS

- A. Colors indicated are the **Basis of Design**. Approved alternate colors will be as selected by the Architect from the manufacturer's full range of colors.
- B. Refer to drawings for locations.
- C. Interior Colors:
 - 1. **P-1:**
 - a. Manufacturer: Benjamin Moore.
 - b. Color: AC 26 Ozark Shadows.
 - 2. **P-2:**
 - a. Manufacturer: Benjamin Moore.
 - b. Color: 1545 Iron Gate.
 - 3. **P-3:**
 - a. Manufacturer: Benjamin Moore.
 - b. Color: 1470 Bear Creek.
- D. HYDRONIC PIPING SCHEDULE
 - 1. General: All piping, insulated or uninsulated, exposed in mechanical room, central equipment room, stairwells, etc. shall receive two coats of paint in color specified in following schedule (as applicable to the project):
 - a. Fire Protection:
 - 1) Color: Red Safety Red
 - 2) Stencil: Fire line SW4081
 - 3) Letter Designation: F
 - b. Sprinkler:
 - 1) Color: Red Safety Red
 - 2) Stencil: Sprinkler SW4081
 - 3) Letter Designation: S
 - c. Chilled Water Supply:

- 1) Color: Light Blue Spillway
- 2) Stencil: Chilled Water Supply SW4062
- 3) Letter Designation: CHS
- d. Chilled Water Return:
 - 1) Color: Darker Blue Robotic Blue
 - 2) Stencil: Chilled Water Return SW4063
 - 3) Letter Designation: CHR
- e. Gas:
 - 1) Color: Yellow Safety Yellow
 - 2) Stencil: Gas SW4084
 - 3) Letter Designation: G
- f. Heating Water Supply:
 - 1) Color: Orange International Orange
 - 2) Stencil: Heat Water Supply SW4082
 - 3) Letter Designation: HS
- g. Heating Water Return:
 - 1) Color: Lighter Orange Power Orange
 - 2) Stencil: Heat Water Return SW4074
 - 3) Letter Designation: HR
- h. Condenser Water Supply From Cooling Tower:
 - 1) Color: Light Green Emerald Green
 - 2) Stencil: Condenser Water Supply SW4069
 - 3) Letter Designation: CS
- i. Condenser Water Return To Cooling Tower:
 - 1) Color: Darker Green Generator Green
 - 2) Stencil: Condenser Water Return SW4070
 - 3) Letter Designation: CR

END OF SECTION

**SECTION 09 9600
HIGH-PERFORMANCE COATINGS**

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SECTION INCLUDES

- A. High performance coatings.
- B. Special preparation of surfaces.

1.3 RELATED REQUIREMENTS

- A. Section 01 6116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 09 9000 - Painting and Coating.

1.4 REFERENCE STANDARDS

- A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2014.
- B. SSPC-SP 3 - Power Tool Cleaning; Society for Protective Coatings; 1982 (Ed. 2004).
- C. SSPC-Paint 16 - Coal Tar Epoxy-Polyamide Black (or Dark Red) Paint; Society for Protective Coatings; 1982 (Ed. 2006).

1.5 SUBMITTALS

- A. See Section 01 3300 - Submittal Procedures.
- B. Product Data: Provide data indicating coating materials.
- C. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- E. Maintenance Data: Include cleaning procedures and repair and patching techniques.
- F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. Extra Coating Materials: 1 gallon (4 liters) of each type and color.

2. Label each container with manufacturer's name, product number, color number, and room names and numbers where used.

1.6 QUALITY ASSURANCE

- A. Maintain one copy of each referenced document that applies to application on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- C. Applicator Qualifications: Company specializing in performing the work of this section with minimum five years documented experience.

1.7 FIELD CONDITIONS

- A. Do not install materials when temperature is below 55 degrees F (13 degrees C) or above 90 degrees F (32 degrees C).
- B. Maintain this temperature range, 24 hours before, during, and 72 hours after installation of coating.
- C. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.
- D. Restrict traffic from area where coating is being applied or is curing.

1.8 WARRANTY

- A. See Section 01 7780 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.
- C. Warranty: Include coverage for bond to substrate and degradation of chemical resistance.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. High-Performance Coatings:
 1. PPG Architectural Finishes, Inc: www.ppgaf.com.
 2. Tnemec Company, Inc: www.tnemec.com. **BASIS OF DESIGN.**
 3. Substitutions: See Section 01 6300 - Product Substitution Procedures.
 - a. Product selections are based on physical properties and design qualities integral to the design of the project. All substitutions must meet the criteria stipulated in this section, and the substitution must meet the aesthetic qualities and intent of the design to the satisfaction of the Architect. The Architect's decision regarding this matter is final.

2.2 MATERIALS

- A. Coatings - General: Provide complete multi-coat systems formulated and recommended by manufacturer for the applications indicated, in the thicknesses indicated; number of coats specified does not include primer or filler coat.
 - 1. Lead content: Not greater than 0.06 percent by weight of total nonvolatile content.
 - 2. Chromium content, as hexavalent chromium, zinc chromate, or strontium chromate: None.
 - 3. Maximum volatile organic compound (VOC) content: As required by applicable regulations.
 - 4. Colors: Selected from manufacturer's full range of colors.

- B. High-Build Urethane Coating: Two coats, two-part, aliphatic moisture-curing polyurethane, gloss finish.
 - 1. Locations for use:
 - a. Interior and Exterior metal structural elements exposed to view. Finish all exposed surfaces.
 - 1) Also including and not limited to roof purlins, wall girts and miscellaneous metal structural support elements exposed to view.
 - b. Interior and Exterior stair components exposed to view (finish all exposed surfaces) consisting of and not limited to the following:
 - 1) Metal stair components.
 - 2) Metal guardrail and handrail components.
 - 3) Metal stair support elements.
 - 2. Product characteristics (**BASIS OF DESIGN**):
 - a. Percentage of solids by volume: 60, minimum.
 - b. Dry film thickness, per coat: 2.0 to 3.0 mils, minimum.
 - c. Comply with the performance requirements specified above for moderate exposure.
 - 3. Product: Series 1070/Fluoronar manufactured by Tnemec Inc. **BASIS OF DESIGN.**
 - 4. Product: Coraflon manufactured by PPG Paints.
 - 5. Primer for ferrous metal: as recommended by manufacturer.
 - a. Product: Tneme-Zinc 90G-1K97 manufactured by Tnemec Company, Inc. **BASIS OF DESIGN.**
 - 1) Intermediate Coating (as required by manufacturer): Hi-Build Epoxoline, Series 66 manufactured by Tnemec Company, Inc. **BASIS OF DESIGN.**
 - b. Product: Coraflon ADS Zinc Rich Epoxy Primer manufactured by PPG Architectural Finishes, Inc.
 - 1) Intermediate Coating (as required by manufacturer): Coraflon ADS Epoxy Intermediate Primer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify existing conditions before starting work.

- B. Verify that substrate surfaces are ready to receive work as instructed by the coating manufacturer. Obtain and follow manufacturer's instructions for examination and testing of substrates.
- C. Cementitious Substrates: Do not begin application until substrate has cured 28 days minimum and measured moisture content is not greater than 16 percent.

3.2 PREPARATION

- A. Clean surfaces of loose foreign matter.
- B. Remove substances that would bleed through finished coatings. If unremovable, seal surface with shellac.
- C. Remove finish hardware, fixture covers, and accessories and store.
- D. Galvanized Surfaces: Remove surface contamination and oils and wash with solvent.
- E. Ferrous Metal:
 - 1. Solvent clean.
 - 2. Remove loose rust, loose mill scale, and other foreign substances using power tools according to SSPC-SP 3.
- F. Protect adjacent surfaces and materials not receiving coating from spatter and overspray; mask if necessary to provide adequate protection. Repair damage.

3.3 PRIMING

- A. Apply primer to all surfaces, unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.

3.4 COATING APPLICATION

- A. Apply coatings in accordance with manufacturer's instructions, to thicknesses specified.
- B. Apply in uniform thickness coats, without runs, drips, pinholes, brush marks, or variations in color, texture, or finish. Finish edges, crevices, corners, and other changes in dimension with full coating thickness.

3.5 CLEANING

- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
- B. Clean surfaces immediately of overspray, splatter, and excess material.
- C. After coating has cured, clean and replace finish hardware, fixtures, and fittings previously removed.

3.6 PROTECTION

- A. Protect finished work from damage.

3.7 SCHEDULE

- A. Colors: As indicated on Finish Schedule.
- B. Exterior Ferrous Metal Railings and Handrails, Fences, Gates: Urethane, gloss, shop-applied after cleaning to bare metal, all surfaces coated including surfaces to be concealed or embedded in concrete.
- C. Exterior and Interior exposed Structural Steel, rigid frames, structural columns, beams, supports, girts, perlins and associated structural system components: Urethane, gloss. Coat all surfaces (exposed and concealed).
- D. Steel Lintels to be Embedded in Concrete and Masonry: Coal tar epoxy coating, shop-applied, all surfaces.

END OF SECTION

SECTION 32 3129

WOOD FENCES AND GATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Swinging double gates of same construction as fences. Provide board fence and posts with steel reinforcement as required.
- B. Related Sections:
 - 1. Division 03 Section "Cast-In-Place Concrete" for post footings.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data, specifications and installation instructions for wood fences and gates.
- B. Shop Drawings: Submit layout drawings showing fences with dimensioned locations of posts and gates and details for installation of posts, gates, hardware and accessories.

PART 2 - PRODUCTS

2.1 FENCING

- A. Description: Fences shall consist of galvanized steel posts reinforcement with continuous wood rails top and bottom and vertical boards.
- B. Wood Rails and Boards: Lumber complying with the following requirements including those of the grading agency listed with species.
 - 1. Species: Western Red Cedar.
 - 2. Grade: No. 1, tight knot, selected for minimum color variation.
 - 3. Texture: Rough Cut.
 - 4. Vertical Boards: 1 inch by 6 inch "Dog Ear" design with flat top and notched corners, rough cut texture.
 - 5. Rails: No. 1 Cedar, smooth surfaced, 3 equally spaced horizontal rails shall be provided for all fences 6 feet high.
 - 6. Fence Height: 6 feet.
- C. Posts: 3-inch nominal size
 - 1. Hot-dipped galvanized steel post conforming to ASTM F1083, plain ends, standard weight (Schedule 40) with not less than 1.8 ounces zinc per square feet of surface area coated. Weight 5.79 pounds per foot.
- D. Post Caps: Provide weather tight closure cap for each post.
- E. Bolts, Nails and Connectors: Stainless steel.
- F. Concrete: Provide concrete as specified in Section 03 3000, with minimum 28-day compressive strength of 3000 psi.

2.2 GATES

- A. General: Provide swing gates, size and location indicated on the Drawings.
- B. Description: Match fence in design, species and member sizes. Assemble framework square and rigid.

- C. Hardware: Provide self-closing and self-latching gate hardware, with provisions for padlocking. Padlocks provided by Owner.
- D. Provide 6-inch diameter galvanized post at both sides of all gates.

2.3 STEEL FINISHES

- A. Galvanized-Steel Factory Finish: Immediately after cleaning and pretreating, apply manufacturer's standard 2-coat, baked-on finish consisting of prime coat and thermosetting topcoat, with a minimum dry film thickness of 1 mil (0.025 mm) for topcoat.
 - 1. Color and Gloss: As selected by Architect from manufacturer's full range.

2.4 WOOD FINISHES

- A. Provide stain and clear coat as recommended per manufacturer and wood species.
 - 1. Color: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

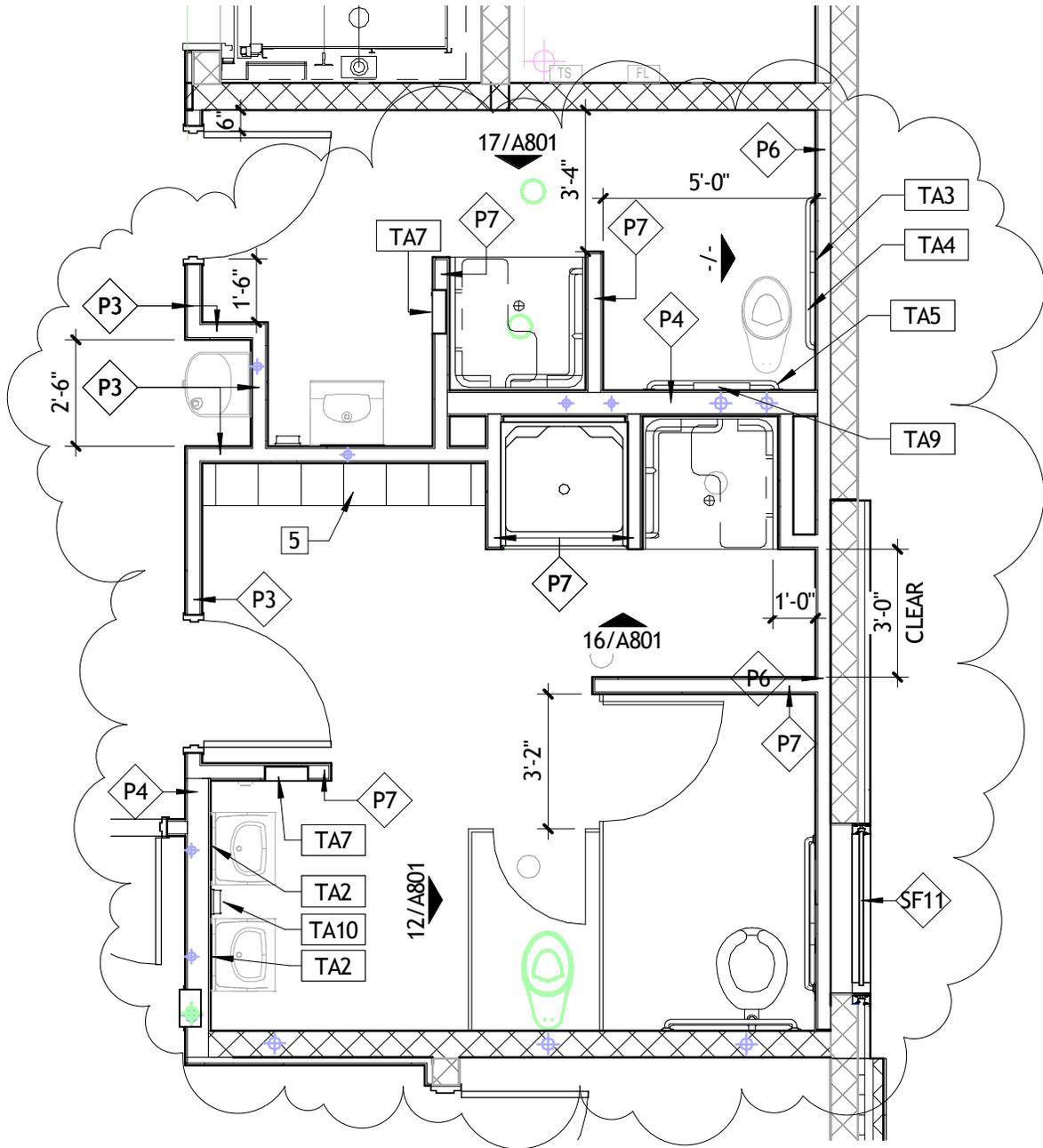
3.1 INSTALLATION

- A. General: Install fences true to line and level in locations indicated.
 - 1. Do not begin installation and erection of fence boards before concrete paving work is completed, unless otherwise permitted.
- B. Excavation: Drill or hand-excavate (using post-hole digger) holes for posts to diameters and spacing indicated, in firm, undisturbed or compacted soil.
 - 1. Unless otherwise indicated, excavate holes with diameters not less than 4 times outside diameter of post.
 - 2. Unless otherwise indicated, excavate holes approximately 39 inches deep, with bottom of posts set 36 inches below finish grade surface.
 - 3. Dispose of excavated material by removing from the site.
- C. Setting Posts: Center and align posts in holes with post bottoms 3 inches above bottom of excavation. Space maximum 6 feet on center, unless noted otherwise.
 - 1. Protect portion of posts above ground from concrete splatter. Place concrete around posts and vibrate or tamp for consolidation. Check each post for vertical and top alignment, and hold in position during placement and finishing operations.
 - 2. Unless otherwise indicated, extend concrete footings 2-inches above grade and trowel to a crown to shed water.
- D. Wood Fences: Attach horizontal rails to posts with countersunk bolts, nuts and washers. Nail vertical boards to rails with two nails per rail in each board. Align top ends of boards straight and even.
- E. Gates: Install gates with secure attachments and adjust gate hardware for smooth and quiet operation.

3.2 ADJUSTING

- A. Adjust hardware and moving parts to function smoothly, and lubricate as recommended by manufacturer.

END OF SECTION



ASK001 - ENLARGED SECOND FLOOR PLAN - RESTROOMS



SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC

300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181

ST. JOHN THE BAPTIST PARISH
VOLUNTEER FIRE STATION #51

521 HEMLOCK STREET LAPLACE, LA 70068

sketch description
Partial Enlarged Floor Plan

project no. 21167.00 date 11/20/14

file name .rvt

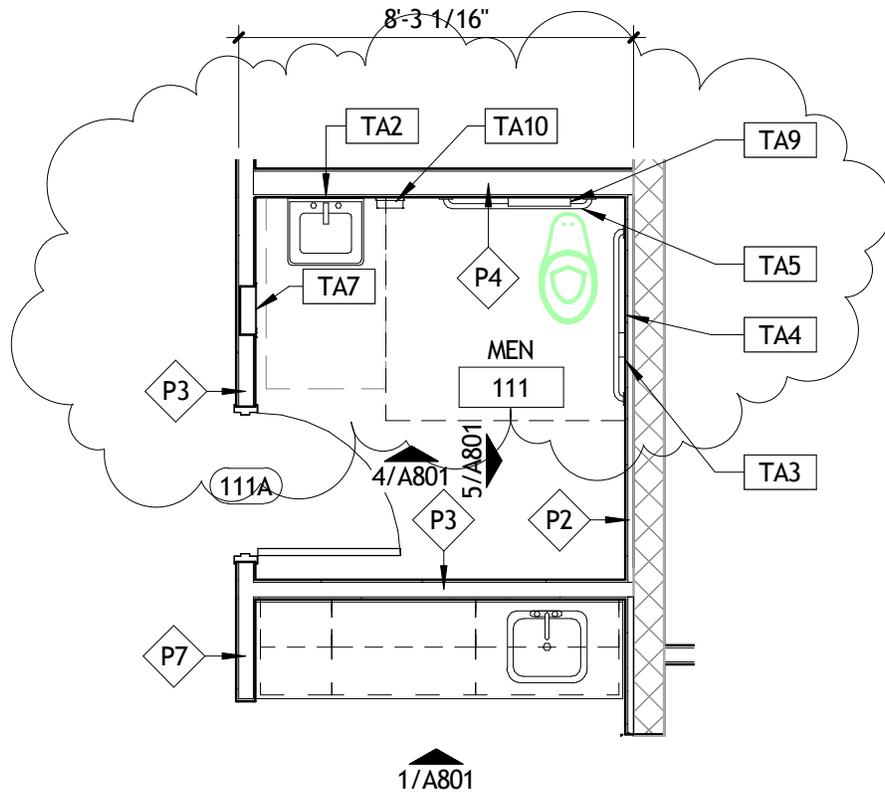
issued for Addendum No. 2

drawing number

ASK001

this drawing modifies:

5 / A221



ASK002 - ENLARGED FIRST FLOOR PLAN - MEN 111



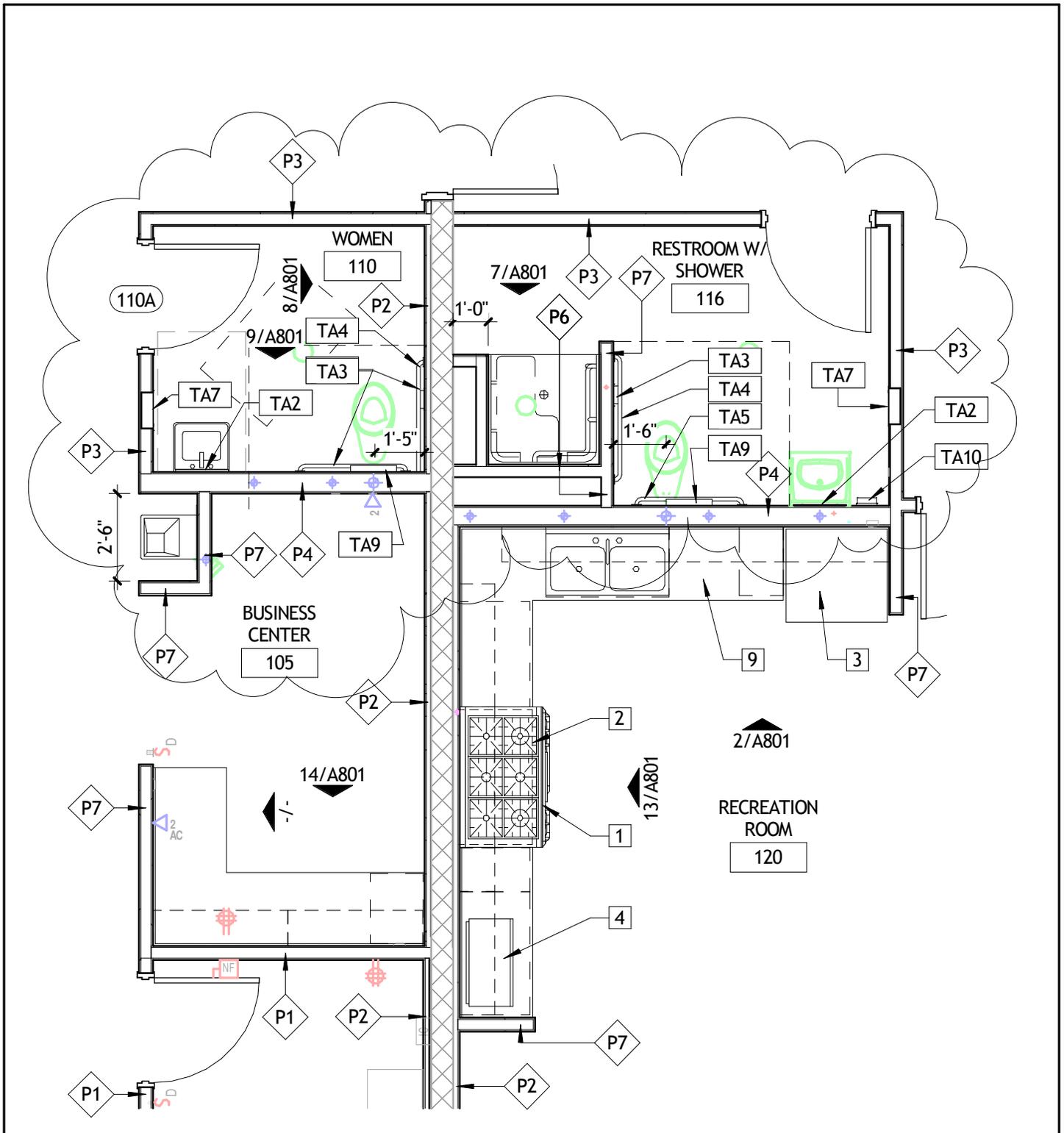
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ST. JOHN THE BAPTIST PARISH
VOLUNTEER FIRE STATION #51
521 HEMLOCK STREET LAPLACE, LA 70068

sketch description
Enlarged Floor Plan

project no. 21167.00	date 11/20/14	drawing number ASK002
file name .rvt		
issued for Addendum No. 2		this drawing modifies: 1/A221

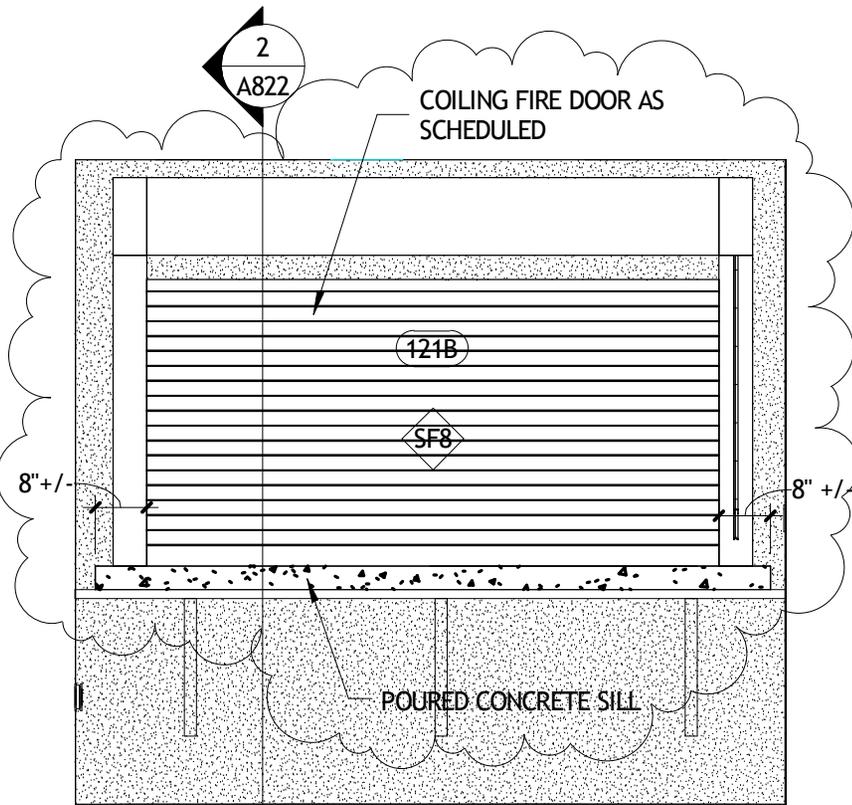


ASK003 - ENLARGED FIRST FLOOR PLAN

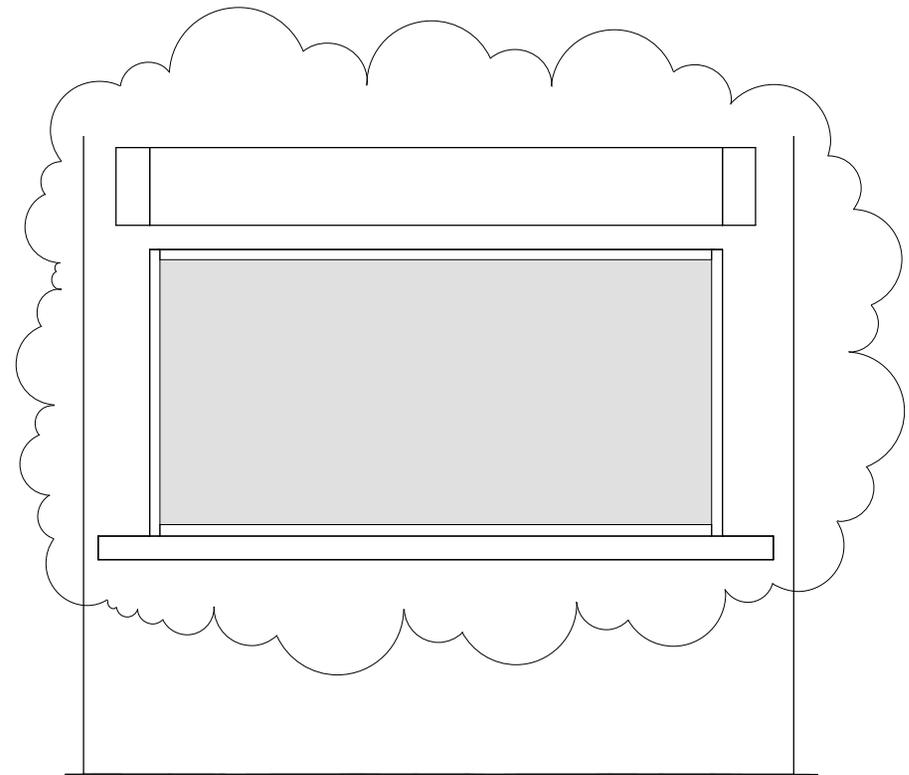

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ST. JOHN THE BAPTIST PARISH
VOLUNTEER FIRE STATION #51
 521 HEMLOCK STREET LAPLACE, LA 70068
 sketch description
 Enlarged Floor Plan

project no.	date	drawing number
21167.00	12/09/14	ASK003
file name	.rvt	
issued for	Addendum No. 2	this drawing modifies: 2/A221



1 RADIO OFFICE
ASK004 3/8" = 1'-0"



2 STOREFRONT SF8
ASK004 3/8" = 1'-0"



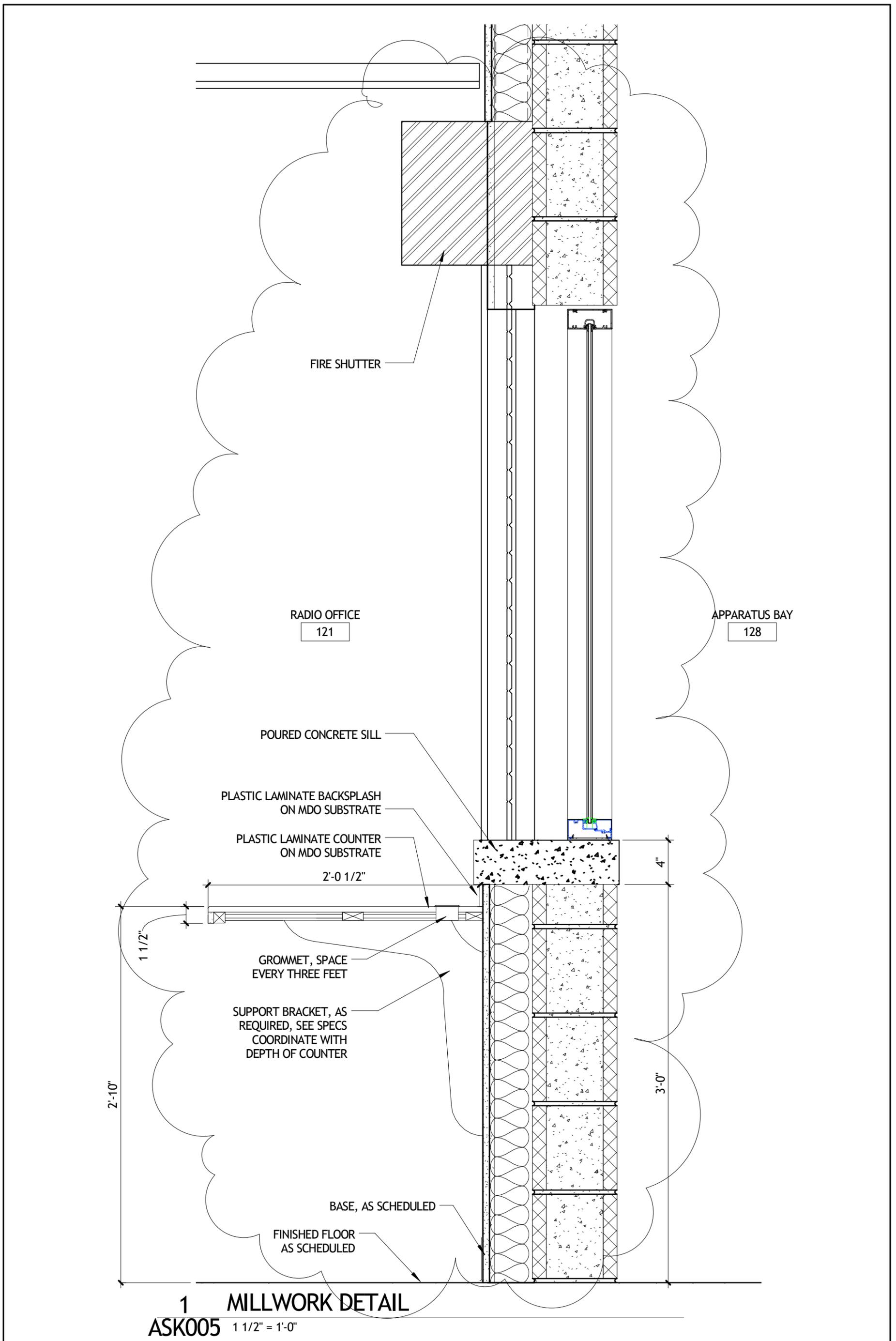
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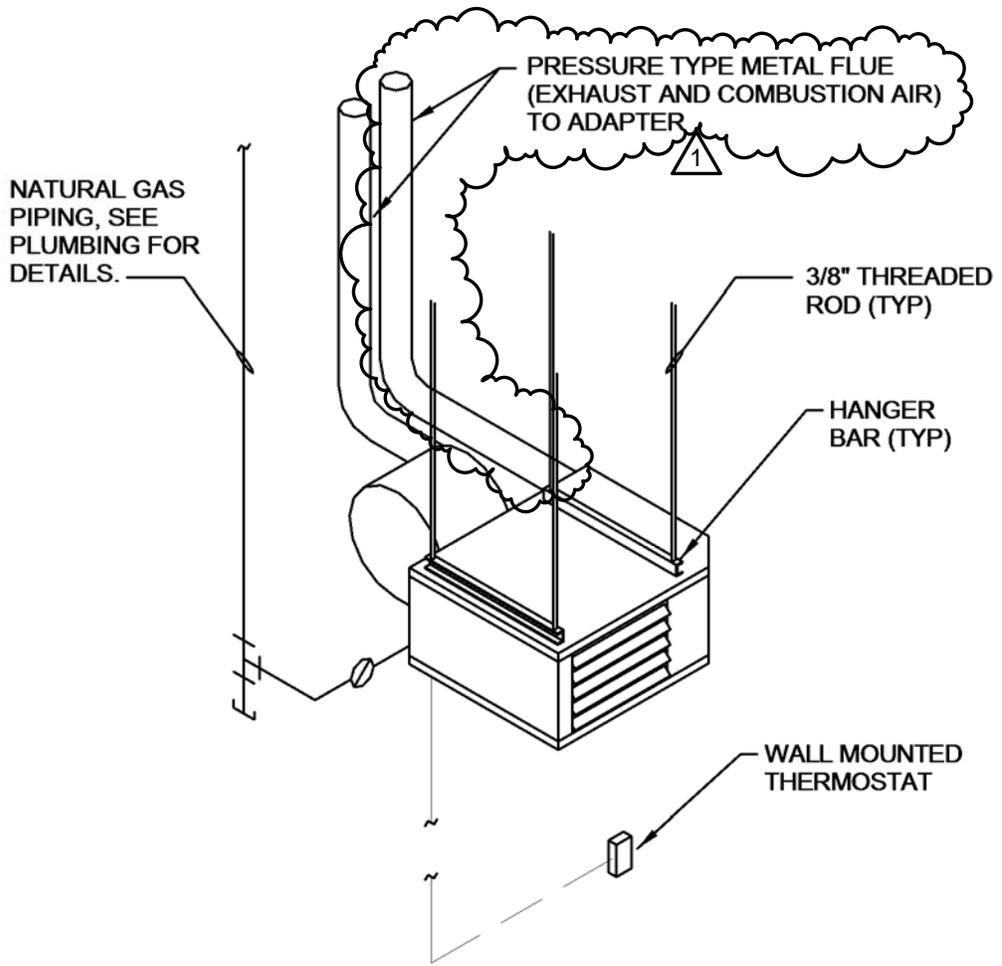
ST. JOHN THE BAPTIST PARISH
VOLUNTEER FIRE STATION #51
 521 HEMLOCK STREET LAPLACE, LA 70068

sketch description
INTERIOR ELEVATIONS

project no. 21167.00	date 12/10/14	drawing number ASK004
author		Author
issued for Addendum No. 2		this drawing modifies: A801 & A903



1 MILLWORK DETAIL
ASK005 1 1/2" = 1'-0"



1
GAS UNIT HEATER
 MSK001 1/2" = 1'-0"



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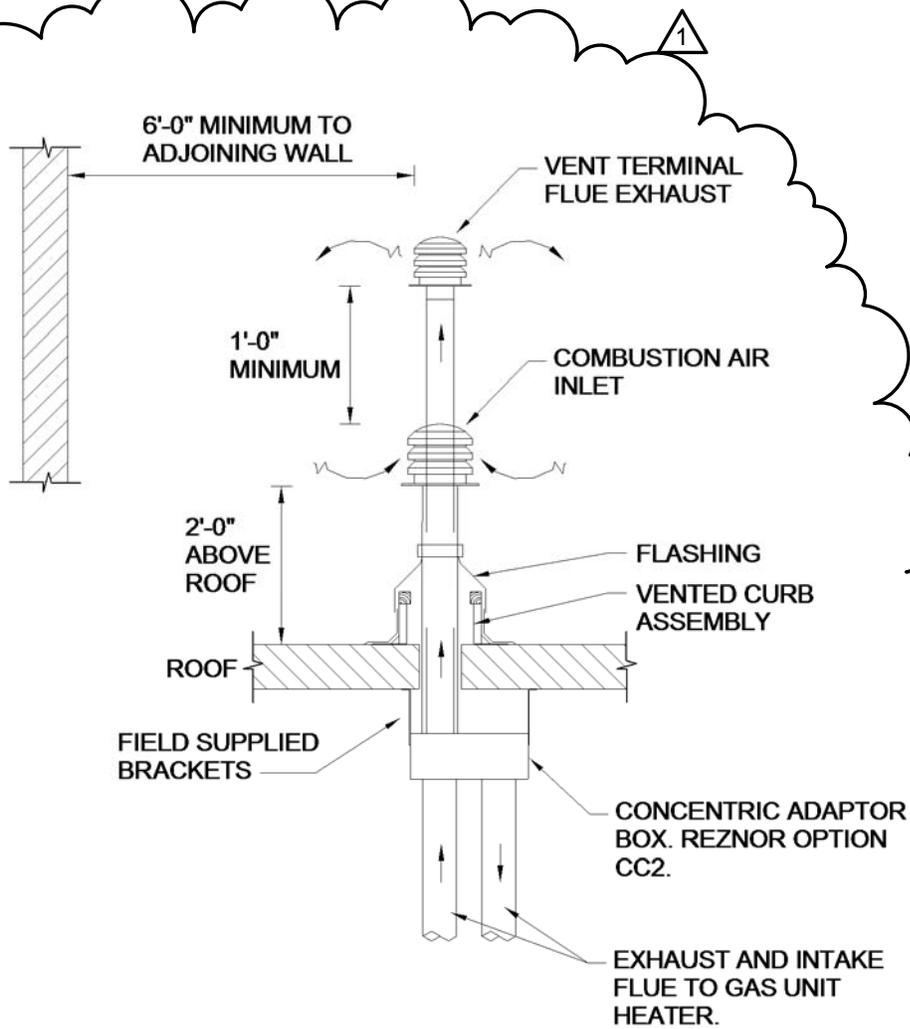
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ST. JOHN THE BAPTIST
VOLUNTEER FIRE STATION #51

521 HEMLOCK STREET
 LAPLACE, LA 70068

sketch description
 Designer

project no.	date	drawing number
21167.00	12/11/14	MSK001
file name	.rvt	
issued for	ADDENDUM NO. 2	this drawing modifies: M005



1 SEPARATOR COMBUSTION AIR/FLUE FOR GUH UNIT
 MSK002 1/8" = 1'-0"

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 REGIONAL DESIGN GROUP, LLC

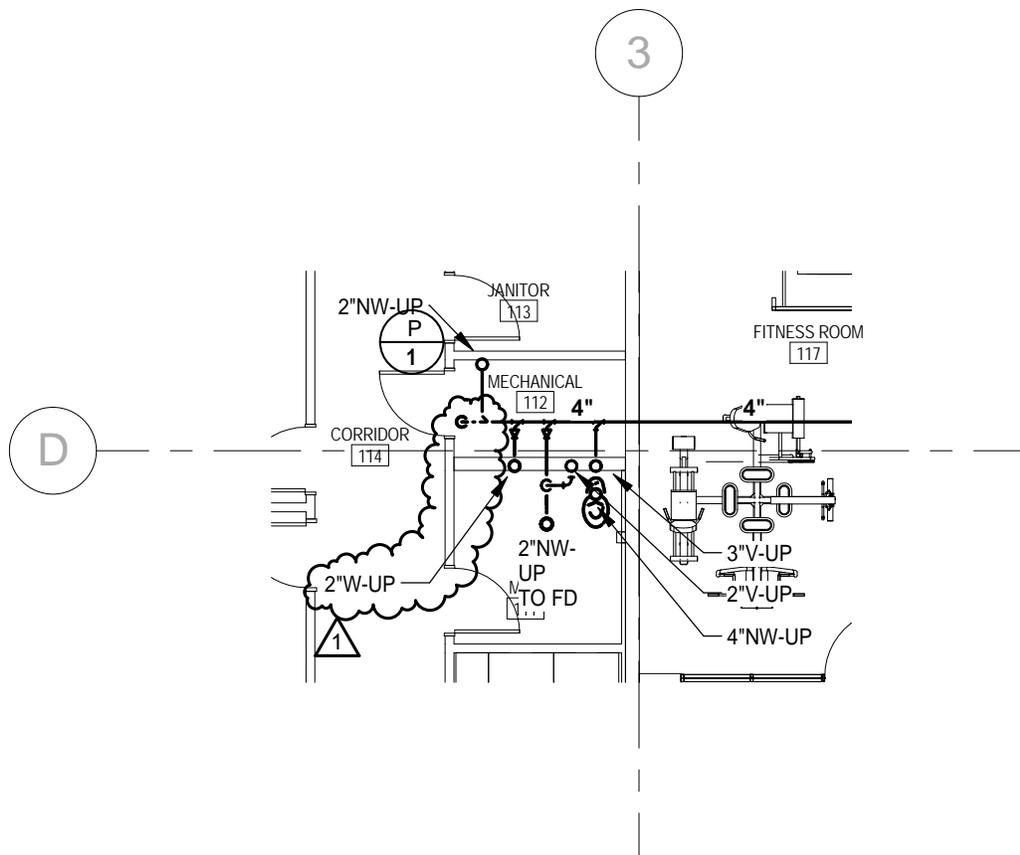
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ST. JOHN THE BAPTIST
 VOLUNTEER FIRE STATION #51

521 HEMLOCK STREET
 LAPLACE, LA 70068

sketch description
 Designer

project no. 21167.00	date 12/11/14	drawing number
file name		MSK002
issued for ADDENDUM NO. 2		this drawing modifies: M005



1 PARTIAL REVISED PLUMBING- UNDER FIRST FLOOR
 PSK001 1/8" = 1'-0"

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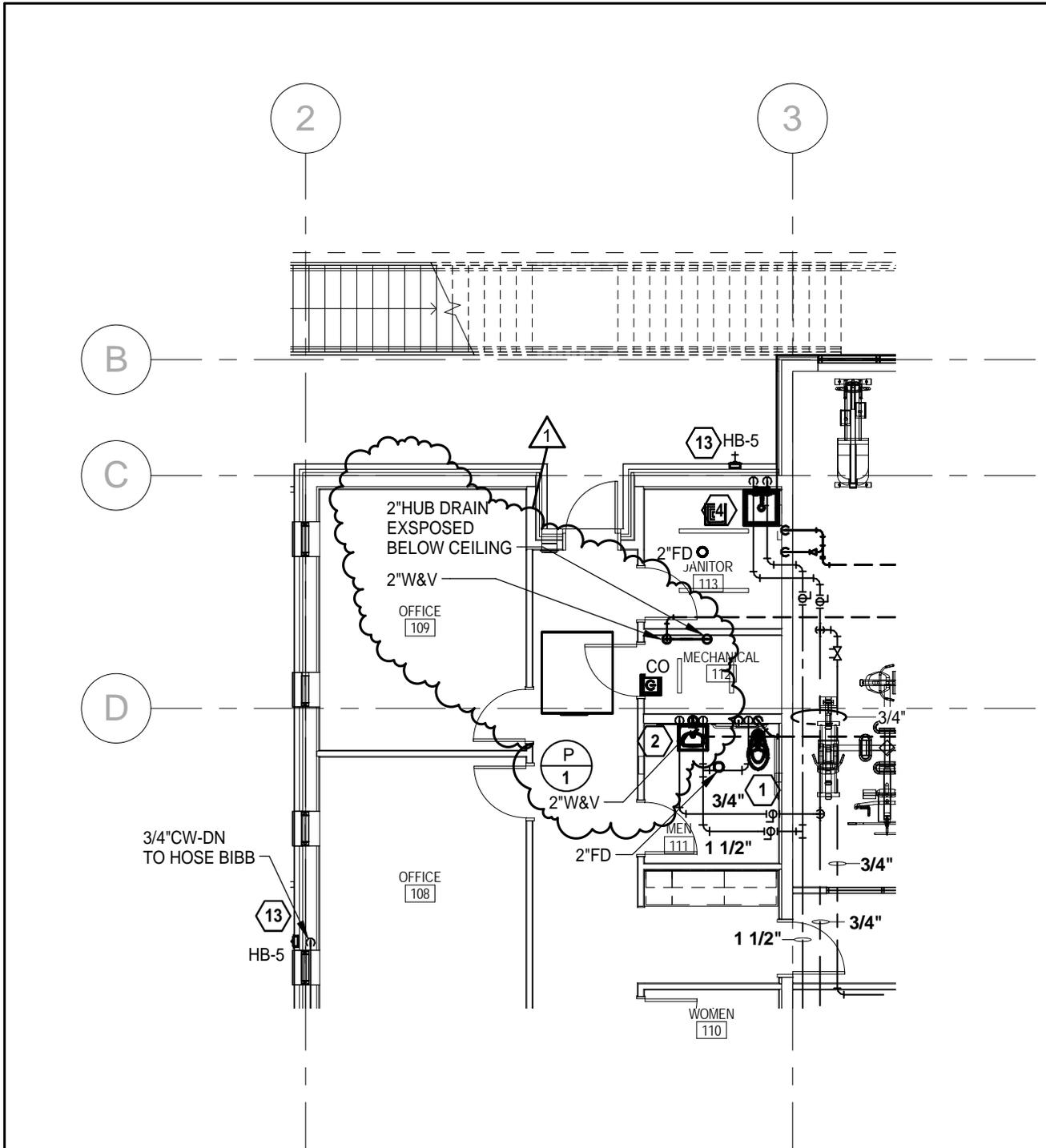
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521 HEMLOCK STREET
 LAPLACE, LA 70068

sketch description
 Designer

project no.	date	drawing number
21167.00	12/11/14	PSK001
file name	.rvt	
issued for	ADDENDUM NO. 2	this drawing modifies: P100



1 PARTIAL REVISED PLUMBING - 1ST FLOOR
 PSK002 1/8" = 1'-0"

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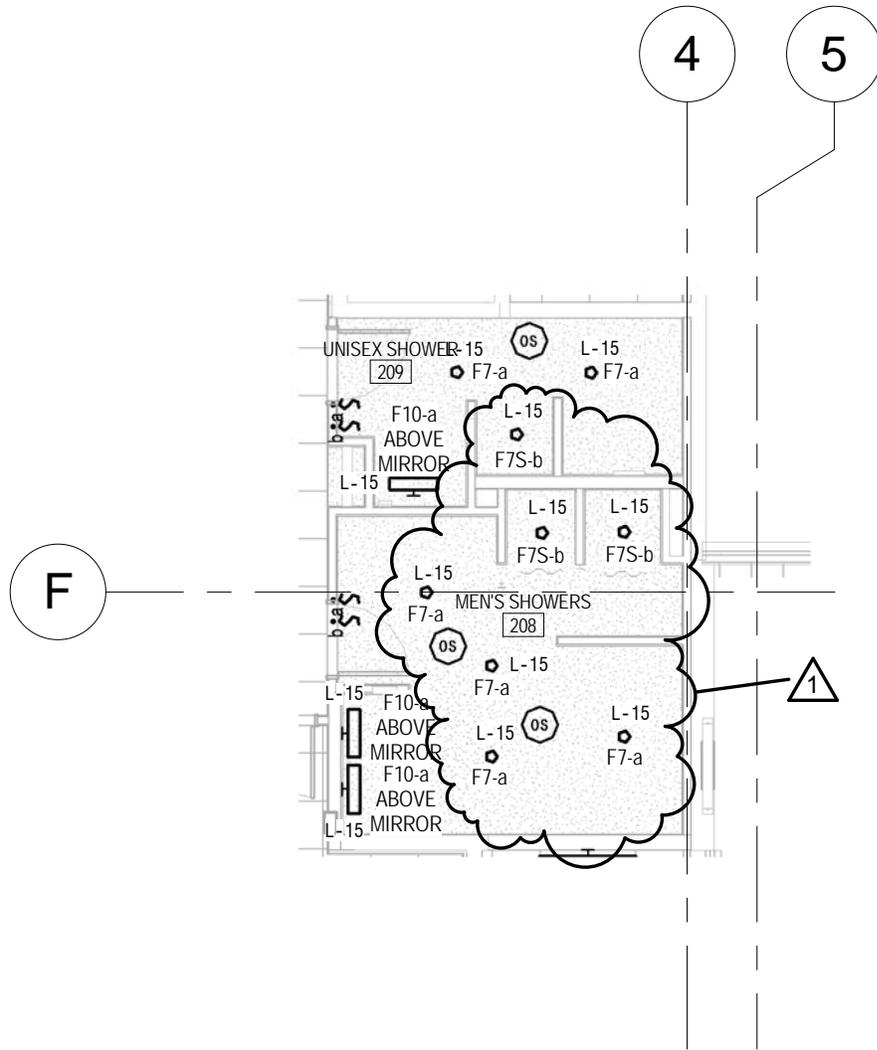
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ST. JOHN THE BAPTIST
 VOLUNTEER FIRE STATION #51

521 HEMLOCK STREET
 LAPLACE, LA 70068

sketch description
 Designer

project no.	date	drawing number
21167.00	12/11/14	PSK002
file name	.rvt	
issued for	ADDENDUM NO. 2	this drawing modifies: P101



1 PARTIAL LIGHTING - 2ND FLOOR
 ESK001 1/8" = 1'-0"

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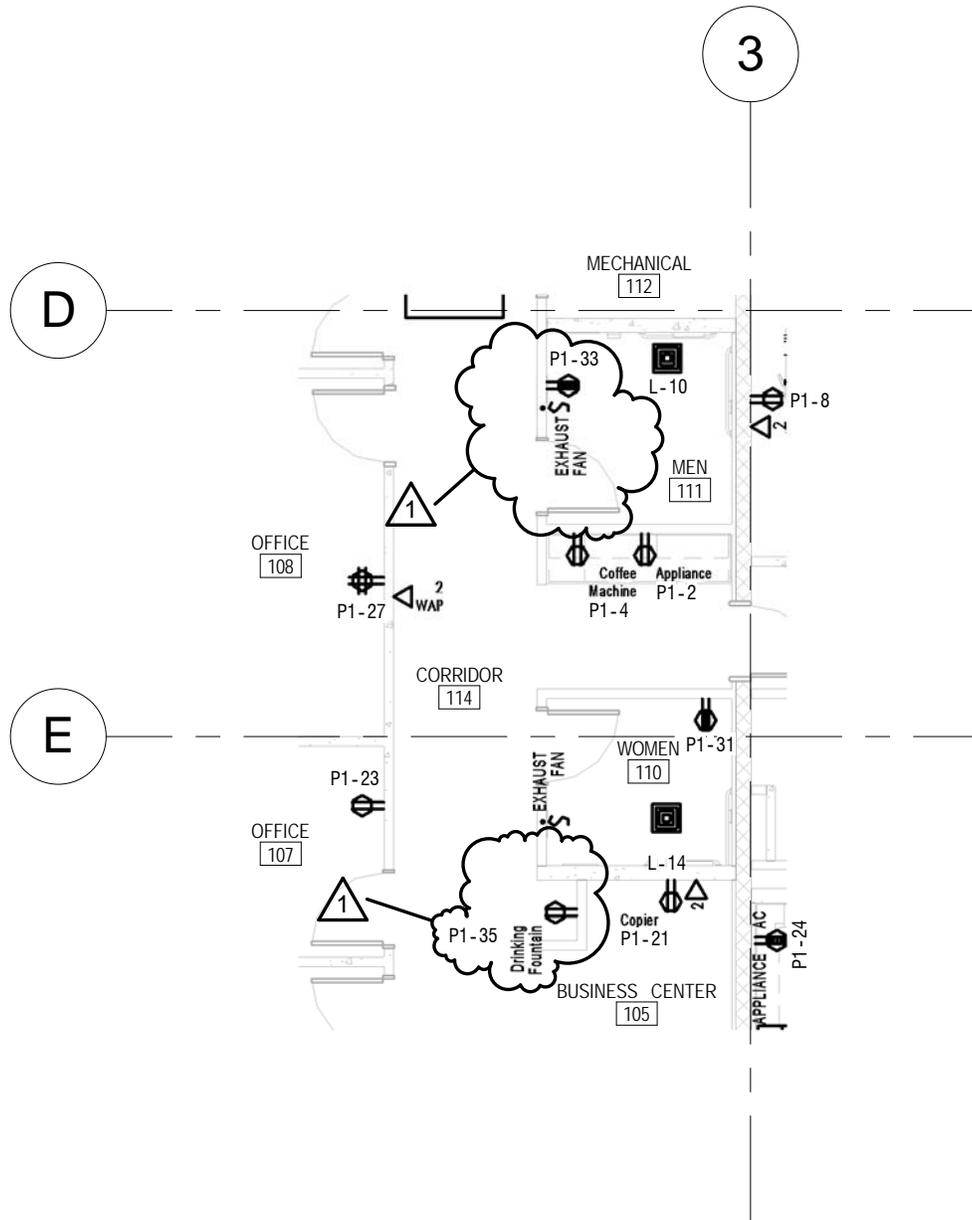
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ST. JOHN THE BAPTIST
VOLUNTEER FIRE STATION #51

521 HEMLOCK STREET
 LAPLACE, LA 70068

sketch description
 Designer

project no. 21167.00	date 12/11/14	drawing number ESK001
file name	.rvt	this drawing modifies: E102
issued for ADDENDUM NO. 2		



1 PARTIAL POWER - 1ST FLOOR
 ESK002 1/8" = 1'-0"

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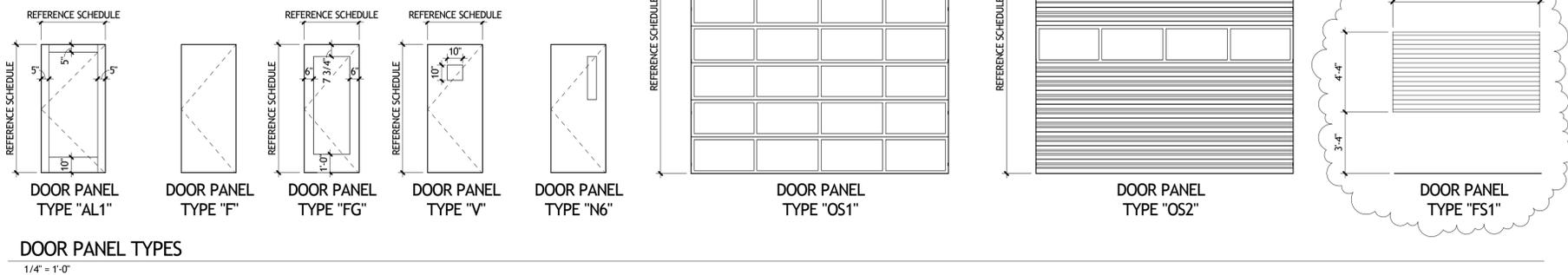
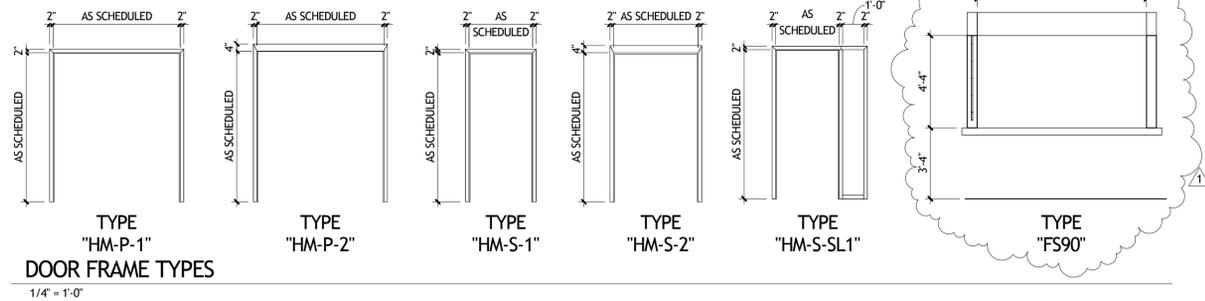
ST. JOHN THE BAPTIST
VOLUNTEER FIRE STATION #51

521 HEMLOCK STREET
 LAPLACE, LA 70068

sketch description
 Designer

project no. 21167.00	date 12/11/14	drawing number ESK002
file name	.rvt	this drawing modifies: E201
issued for ADDENDUM NO. 2		

TAG	FROM:	TO:	DOOR						DOOR SCHEDULE			FRAME			DETAILS		COMMENTS
			PANEL TYPE	WIDTH	HEIGHT	FINISH	MATERIAL	FIRE RATING	OPENING	HANDING	TYPE	MATERIAL	FINISH	HW SET	JAMB	HEAD	
1ST FLOOR																	
101A		LOBBY	AL1	6'-0 25/32"	7'-11 1/2"	Anodized	Aluminum	None	RHR/LHR				1.0				CR, ES, EXT,
101B	LOBBY	CONFERENCE ROOM	N6	3'-0"	7'-0"	MBB	Wood	None	LHR	HM-S-1	Hollow Metal	Painted	18.0				ES,
101C	LOBBY	CORRIDOR	FG	3'-0"	7'-0"	MBB	Wood	None	LHR	HM-S-SL1	Hollow Metal	Painted	18.0				ES,
102A	RECEPTIONIST	CONFERENCE ROOM	N6	3'-0"	7'-0"	MBB	Wood	None	LHR	HM-S-1	Hollow Metal	Painted	15.0				
102B	CONFERENCE ROOM	COVERED PATIO	N6	3'-0"	7'-0"	Painted	Hollow Metal	None	RHR	HM-S-2	Hollow Metal	Painted	3.0				WIND, EXT,
104A	CORRIDOR	FILE / IT ROOM	F	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	14.0				
106A	CORRIDOR	OFFICE	N6	3'-0"	7'-0"	MBB	Wood	None	RH	HM-S-1	Hollow Metal	Painted	15.0				OFFICE,
107A	CORRIDOR	OFFICE	N6	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	15.0				OFFICE,
108A	CORRIDOR	OFFICE	N6	3'-0"	7'-0"	MBB	Wood	None	RH	HM-S-1	Hollow Metal	Painted	15.0				
109A	CORRIDOR	OFFICE	N6	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	15.0				
110A	CORRIDOR	WOMEN	F	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	23.0				
111A	CORRIDOR	MEN	F	3'-0"	7'-0"	MBB	Wood	None	RH	HM-S-1	Hollow Metal	Painted	23.0				
112A	MECHANICAL	CORRIDOR	F	3'-0"	7'-0"	MBB	Wood	None	LHR	HM-S-1	Hollow Metal	Painted	12.0				
113A	CORRIDOR	JANITOR	F	3'-0"	7'-0"	MBB	Wood	None	RH	HM-S-1	Hollow Metal	Painted	14.0				
114A	CORRIDOR		N6	3'-0"	7'-0"	Painted	Hollow Metal	None	LHR	HM-S-1	Hollow Metal	Painted	4.0				CR, ES, EXT
115A	CORRIDOR	CORRIDOR	N6	3'-0"	7'-0"	MBB	Wood	None	LHR	HM-S-2	Hollow Metal	Painted	20.0				CR, ES
115B	CORRIDOR		N6	3'-0"	7'-0"	Painted	Hollow Metal	None	LHR	HM-S-2	Hollow Metal	Painted	9.0				
115C	CORRIDOR	CORRIDOR	F	3'-0"	7'-0"	Painted	Hollow Metal	None	LHR	HM-S-2	Hollow Metal	Painted	12.0				
116A	CORRIDOR	RESTROOM W/ SHOWER	F	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	23.0				
117A	CORRIDOR	FITNESS ROOM	FG	3'-1 3/8"	7'-0 3/4"	SRO	Wood	None	RH	SF6			22.0				ALUMINUM STOREFRONT
118A	FITNESS STORAGE	FITNESS ROOM	F	3'-0"	7'-0"	MBB	Wood	None	LHR	HM-S-1	Hollow Metal	Painted	14.0				
119A	MECHANICAL	CORRIDOR	F	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	13.0				
120A	CORRIDOR	RECREATION ROOM	V	3'-0"	7'-0"	MBB	Wood	None	RH	HM-S-1	Hollow Metal	Painted	17.0				
120B	COVERED PATIO	RECREATION ROOM	AL1	3'-0"	7'-11 1/2"	Anodized	Aluminum	None	LHR	SF2			2.0				
121A	CORRIDOR	RADIO OFFICE	N	3'-0"	7'-0"	Painted	Hollow Metal	None	LH	HM-S-2	Hollow Metal	Painted	16.0				
121B	MECHANICAL	APPARATUS BAY	FS1	8'-0"	7'-8"	Painted	Galv. Steel	None	N/A	FS90							FIRE SHUTTER
122A	APPARATUS BAY	FIREMEN LADDER	N6	3'-0"	7'-0"	Painted	Hollow Metal	None	RHR	HM-S-2	Hollow Metal	Painted	10.0				WIND, THERMAL, POE, EXT,
123A	SHOP	APPARATUS BAY	V	6'-0"	7'-0"	Painted	Hollow Metal	None	RHR/LHR	HM-P-2	Hollow Metal	Painted	5.0				POE, WIND, EXT, ES, CR,
123B	SHOP	APPARATUS BAY	V	3'-0"	7'-10"	Painted	Hollow Metal	None	RHR	HM-S-1	Hollow Metal	Painted	4.0				EXT, WIND, CR, ES,
125A	STORAGE	APPARATUS BAY	F	4'-0"	7'-0"	Painted	Hollow Metal	None	LHR	HM-S-2	Hollow Metal	Painted	7.0				
126A	APPARATUS BAY	DECON ROOM	N6	3'-0"	7'-0"	Painted	Hollow Metal	None	RH	HM-S-2	Hollow Metal	Painted	8.0				
126B	DECON ROOM		N6	3'-0"	7'-0"	Painted	Hollow Metal	None	RHR	HM-S-2	Hollow Metal	Painted	4.0				ES, CR, WIND,
127A	STAIR #1		N6	3'-0"	7'-0"	MBB	Wood	None	RHR	HM-S-2	Hollow Metal	Painted	11.0				
127B		STAIR #1	N6	3'-0"	7'-0"	Painted	Hollow Metal	None	RHR	HM-S-2	Hollow Metal	Painted	3.0				EXT, WIND, CR, ES,
128A		APPARATUS BAY	V	3'-0"	7'-0"	Painted	Hollow Metal	None	RHR	N/A	Hollow Metal	Painted	4.0				CR, ES, WIND, EXT,
128B		APPARATUS BAY	OS1	14'-0"	14'-0"	Anodized	Aluminum	None		N/A							
128C		APPARATUS BAY	OS1	14'-0"	14'-0"	Anodized	Aluminum	None		N/A							
128D		APPARATUS BAY	OS1	14'-0"	14'-0"	Anodized	Aluminum	None		N/A							ALTERNATE NO. 1
128E		APPARATUS BAY	OS1	14'-0"	14'-0"	Anodized	Aluminum	None		N/A							
128F		APPARATUS BAY	OS2	14'-0"	14'-0"	Painted	Hollow Metal	None		N/A							
128G		APPARATUS BAY	OS2	14'-0"	14'-0"	Painted	Hollow Metal	None		N/A							
128H		APPARATUS BAY	OS2	14'-0"	14'-0"	Painted	Hollow Metal	None		N/A							ALTERNATE NO. 1
128J		APPARATUS BAY	OS2	14'-0"	14'-0"	Painted	Hollow Metal	None		N/A							
2ND FLOOR																	
201A	CORRIDOR	DAY ROOM	FG	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	21.0				
202A	DAY ROOM	STAIR #1	N6	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-2	Hollow Metal	Painted	11.0				
203B	CORRIDOR		V	3'-0"	7'-0"	Painted	Hollow Metal	None	RHR	HM-S-1	Hollow Metal	Painted	3.0				CR, ES, WIND, EXT,
204A	CORRIDOR	SLEEPING #1	F	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	25.0				
205A	CORRIDOR	SLEEPING #2	F	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	25.0				
206A	CORRIDOR	SLEEPING #3	F	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	25.0				
207A	CORRIDOR	SLEEPING #4	F	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	25.0				
208A	CORRIDOR	MEN'S SHOWERS	F	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	24.0				
209A	CORRIDOR	UNISEX SHOWER	F	3'-0"	7'-0"	MBB	Wood	None	LH	HM-S-1	Hollow Metal	Painted	24.0				
210A	CORRIDOR	STORAGE	F	3'-0"	7'-0"	Painted	Hollow Metal	None	LH	HM-S-1	Hollow Metal	Painted	14.0				
211A	MECHANICAL	CORRIDOR	F	6'-0"	7'-0"	MBB	Wood	None	RHRA/LHR	HM-S-1	Hollow Metal	Painted	6.0				
213A	CORRIDOR	ELECTRICAL	F	3'-0"	7'-0"	MBB	Wood	None	RH	HM-P-1	Hollow Metal	Painted	13.0				
214A	CORRIDOR	LAUNDRY	N6	3'-0"	7'-0"	MBB	Wood	None	RH	HM-S-1	Hollow Metal	Painted	19.0				



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Revisions		
No.	Description	Date
1	Addendum No. 2	12-11-2014

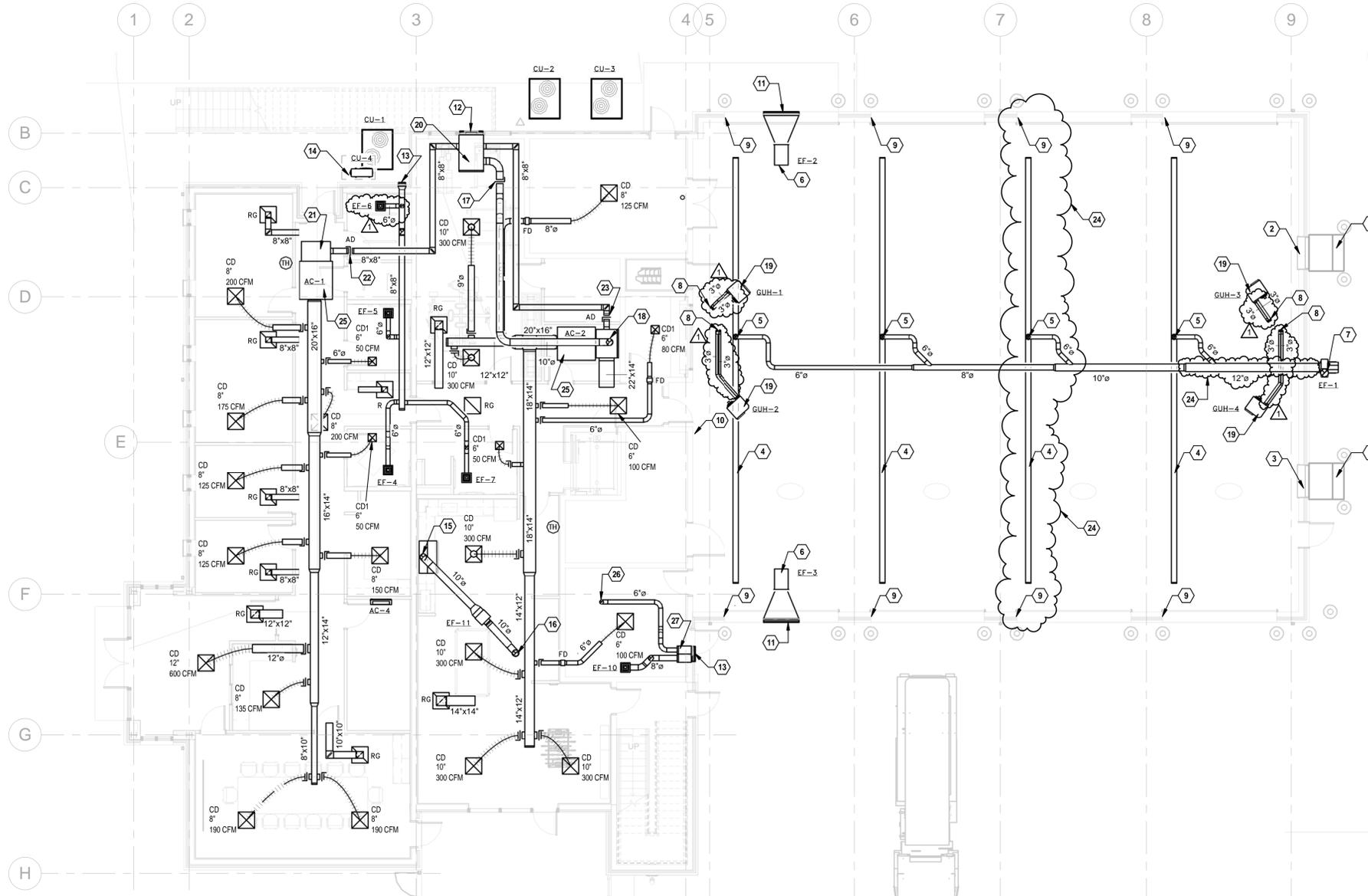
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SCHEDULES (DOORS AND WINDOWS)

seal	author	Author	drawing number
	project number	21167.00	A902r
	date	November 5, 2014	
	phase	CD	

REFERENCE NOTES THIS SHEET:

- 1 PROVIDE 45 DEGREE WEATHERHOOD GREENHECK MODEL WTHD-48.
- 2 PROVIDE 48"x42" EXTERIOR LOUVER MARK (L). PROVIDE MOTORIZED DAMPER ON THE INTERIOR SIDE OF THE LOUVER. DAMPER SHALL BE INTERLOCKED WITH EF-3 SUCH THAT THE LOUVER SHALL OPEN WHEN FAN IS ENERGIZED. PROVIDE REQUIRED RELAYS TO FAN. LOUVER ACTUATOR SHALL BE 120 VOLTS.
- 3 PROVIDE 48"x42" EXTERIOR LOUVER MARK (L). PROVIDE MOTORIZED DAMPER ON THE INTERIOR SIDE OF THE LOUVER. DAMPER SHALL BE INTERLOCKED WITH EF-2 SUCH THAT THE LOUVER SHALL OPEN WHEN FAN IS ENERGIZED. PROVIDE REQUIRED RELAYS TO FAN. LOUVER ACTUATOR SHALL BE 120 VOLTS.
- 4 PROVIDE VEHICLE EXHAUST CAPTURE RAIL PLYMOVENT MODEL STR-55. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM INCLUDING HOSE KIT, INTERNAL TROLLEY, DUCT CONNECTIONS, AND REQUIRED SUPPORTS. SEE SPECIFICATIONS FOR DETAILS.
- 5 CONNECT 6" ROUND EXHAUST DUCT TO THE PLYMOVENT RAIL SYSTEM. ROUND DUCT UP. ROUTE AS SHOWN.
- 6 EXHAUST FAN SHALL BE CONTROLLED BY FIELD MOUNTED THERMOSTAT.
- 7 EF-1 SHALL BE MOUNTED TO THE EXTERIOR WALL AND SUPPORTED BY AN ANGLE IRON STAND. COORDINATE ELEVATION WITH ARCHITECT. CONNECT 12" ROUND EXHAUST DUCT TO FAN INLET. ROUTE EXHAUST STACK FROM FAN DISCHARGE UP AND TERMINATE 5'-0" ABOVE ROOF LINE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 8 CONNECT 3" EXHAUST AND COMBUSTION AIR DUCT INTO CONCENTRIC ADAPTOR REZTOR MODEL CC2. ROUTE STACK THRU ROOF. SEE DETAIL.
- 9 PROVIDE DOOR CONTACT AND INTERLOCK WITH GAS UNIT HEATERS GUH-1, 2, 3, AND 4. CONTRACTOR IS TO PROVIDE CONTROL RELAYS THAT ARE INTERLOCKED WITH ENGINE AREA DOORS THAT WILL TURN "OFF" ALL UNIT HEATERS WHEN ONE OF THE DOORS OPEN. HEATERS SHALL RESUME OPERATION AROUND THEIR INDIVIDUAL THERMOSTATS WHEN DOOR CLOSES.
- 10 LOCATE PLYMOVENT CONTROL PANEL (MODEL OS-3) FOR EF-1 ON THIS WALL. INCLUDES MOTOR STARTER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 115V/1PHASE FOR THIS PANEL.
- 11 PROVIDE 54"x24" EXTERIOR LOUVER MARK (L). COORDINATE ELEVATION WITH ARCHITECTURAL. PROVIDE DUCT TRANSITION FROM EF DISCHARGE TO LOUVER.
- 12 PROVIDE 36"x18" EXTERIOR LOUVER MARK (L). COORDINATE ELEVATION WITH ARCHITECTURAL.
- 13 PROVIDE 24"x18" EXTERIOR LOUVER MARK (L). COORDINATE ELEVATION WITH ARCHITECTURAL.
- 14 CU-4 SHALL BE MOUNTED TO THE EXTERIOR WALL WITH WALL MOUNT KIT.
- 15 PROVIDE RANGE HOOD BEST MODEL WP28M. 48" UNIT. COORDINATE LOCATION AND ELEVATION WITH ARCHITECTURAL. CONNECT 10" EXHAUST DUCT THEN ROUTE AS SHOWN. INSTALL PRESSURE SWITCH KIT INTO DUCT FOR MAKE-UP AIR SYSTEM.
- 16 ROUTE 10" EXHAUST DUCT UP THRU CHASE. COORDINATE WITH ARCHITECTURAL.
- 17 PROVIDE MAKE-UP AIR DAMPER BROAN MD10TU INTO 10" MAKE-UP AIR DUCT. INSTALL TRANSFORMER FOR 24V LINES. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 18 CONNECT 10" MAKE-UP AIR DUCT TO AC-2 MIXED AIR PLENUM.
- 19 GAS UNIT HEATER SHALL BE CONTROLLED BY WALL MOUNTED THERMOSTAT. UNIT SHALL ALSO BE INTERLOCKED WITH DOOR CONTACT. SEE NOTE 9.
- 20 PROVIDE 36"Wx18"Hx40"D INSULATED PLENUM BOX FOR OUTSIDE AIR INTAKES SHOWN. CONNECT PLENUM TO EXTERIOR LOUVER.
- 21 OPEN RETURN DUCT. FULL SIZE OF AC UNIT RETURN INTAKE, OPEN TO CEILING PLENUM.
- 22 AUTOMATIC OUTSIDE AIR DAMPER INTERLOCKED WITH AC UNIT OPERATION. BALANCE TO PROVIDE 245 CFM.
- 23 AUTOMATIC OUTSIDE AIR DAMPER INTERLOCKED WITH AC UNIT OPERATION. BALANCE TO PROVIDE 280 CFM.
- 24 ALTERNATE # 1: ALL ITEMS CLOUDED ARE TO BE PROVIDED AS PART OF ALTERNATE # 1. THIS INCLUDES (1) PLYMOVENT EXHAUST CAPTURE RAIL AND ASSOCIATED 6" DIAMETER DUCT AND (2) DOOR CONTACTS FOR THE GUH UNITS. ALSO AS PART OF THIS ALTERNATE THE EXHAUST DUCT FOR THE VEHICLE EXHAUST CAPTURE SYSTEM SHALL INCREASE TO 12" ROUND AND THEN CONNECT TO EF-1. COORDINATE CONDITIONS OF ALTERNATE # 1 WITH ARCHITECTURAL.
- 25 AC UNIT TO BE INSTALLED IN CEILING SPACE.
- 26 CONNECT 6" ROUND EXHAUST DUCT TO PPE GEAR DRYING CABINET. SEE ARCHITECTURAL.
- 27 PROVIDE 24"x18" PLENUM BOX WITH SHEET METAL DIVIDER AS SHOWN TO SEPARATE EXHAUST AIR STREAMS. CONNECT 8" ROUND AND 6" ROUND EXHAUST DUCTS AS SHOWN.



1 HVAC - 1ST FLOOR
 1/8" = 1'-0"

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Revisions		
No.	Description	Date
1	Addendum #2	12-11-14

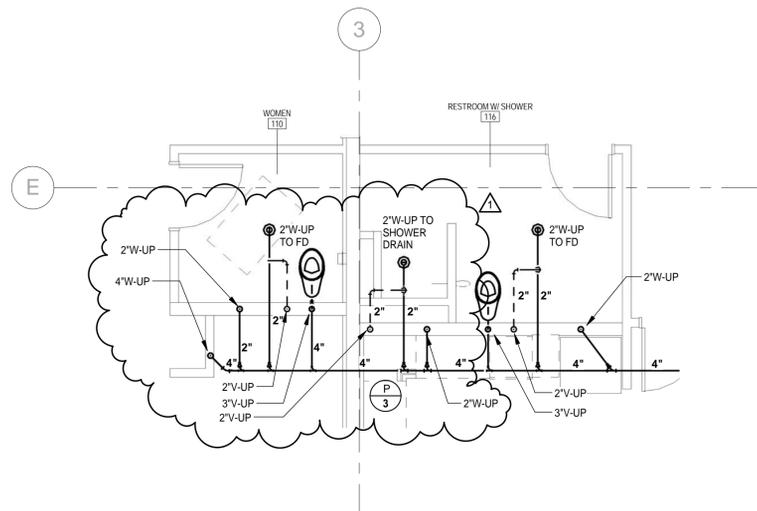
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HVAC - 1ST FLOOR

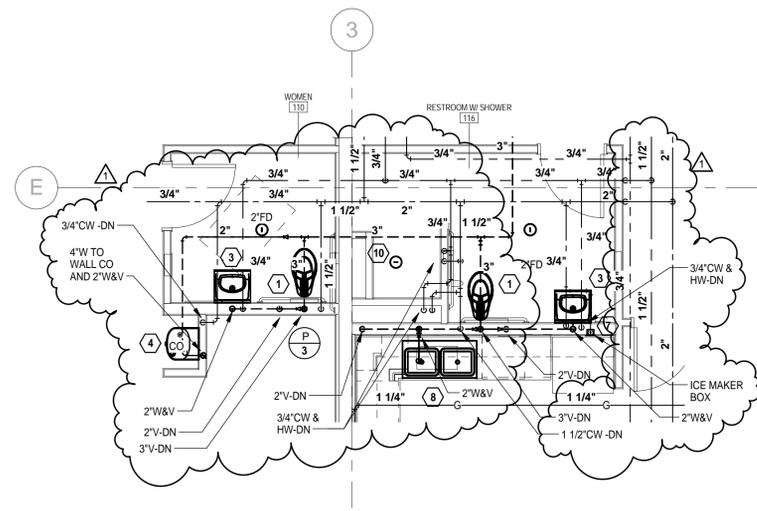
	author	CC	drawing number
	project number	21167.00	
	date	November 05, 2014	
	phase	CD	
			M101r

REFERENCE NOTES:

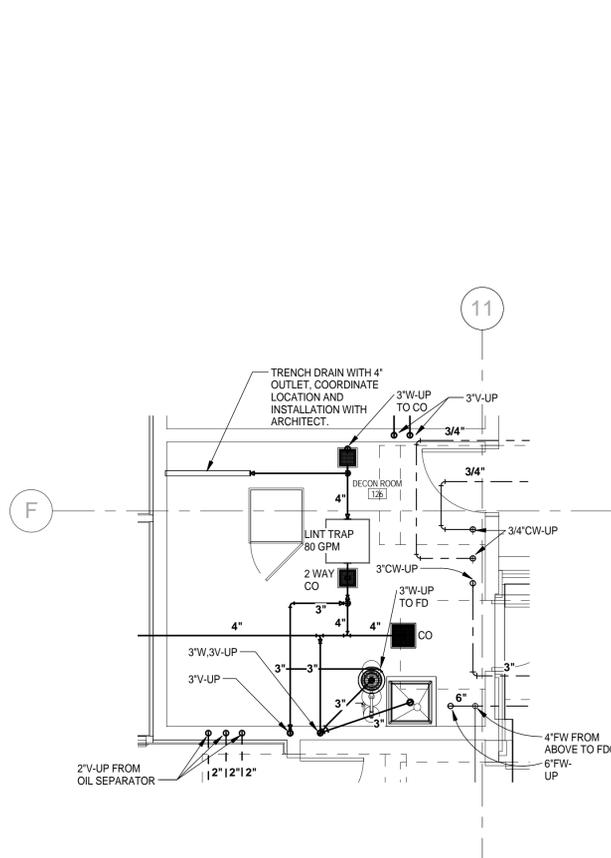
- 1 FLOOR MOUNTED WATER CLOSET, F-1A WITH 1" SUPPLY TO FLUSH VALVE.
- 2 FLOOR MOUNTED ADA COMPLIANT WATER CLOSET, F-1B WITH 1" SUPPLY TO FLUSH VALVE.
- 3 WALL MOUNTED ADA COMPLIANT LAVATORY, F-3F WITH 1/2" CW & HW SUPPLY WITH ANGLE STOPS, AND 1-1/2" DRAIN WITH CLEANOUT PLUG.
- 4 WALL HUNG ADA COMPLIANT ELECTRIC WATER COOLER, F-8 WITH 1/2" CW SUPPLY WITH ANGLE STOP, AND 1-1/2" DRAIN WITH CLEANOUT PLUG.
- 5 FLOOR MOUNTED MOP SINK F-5C, WITH HEAVY DUTY RUBBER HOSE AND BRACKETS.
- 6 NOT USED.
- 7 ICE MAKER BOX WITH EPOXY PAINTED STEEL BOX AND FACEPLATE. INSTALL ADDITIONAL TUBING LENGTH FOR REMOVAL AND REPAIR.
- 8 DOUBLE COMPARTMENT SINK, F-4B WITH 1/2" CW & HW SUPPLY WITH ANGLE STOPS, AND 1-1/2" DRAIN WITH CLEANOUT PLUG. EXTEND 1/2" HW SUPPLY WITH SHUT-OFF VALVE TO DISHWASHER TO CONNECT THROUGH A WYE CONNECTION INTO TAILPIECE OF A SINK.
- 9 SHOWER, F-7A WITH 1/2" CW & 1/2" HW SUPPLY. SHOWERHEAD, SHOWER VALVE, AND DRAIN. COORDINATE INSTALLATION WITH ARCHITECT. PROVIDE WITH SHOWER DRAIN.
- 10 ADA SHOWER, F-7B WITH 1/2" CW & 1/2" HW SUPPLY. HAND SHOWER, SHOWERHEAD, SHOWER VALVE, AND DRAIN. COORDINATE INSTALLATION WITH ARCHITECT. PROVIDE WITH SHOWER DRAIN.
- 11 WALL MOUNTED LAVATORY WITH MANUAL FAUCET, F-3H WITH 1/2" CW & HW SUPPLY WITH ANGLE STOPS, AND 1-1/2" DRAIN WITH CLEANOUT PLUG.
- 12 ADA COMPLIANT EYEWASH/SHOWER, F-13. EXTEND 1-1/4" CW & 1-1/4" HW WITH INTO SHUT-OFF VALVES TO EYEWASH/SHOWER. EXTEND 1-1/2" DRAIN TO EYEWASH/SHOWER. PROVIDE WITH THERMOSTATIC MIXING VALVE WITH STAINLESS STEEL RECESSED CABINET. PROVIDE TRAP PRIMER TO SERVE FLOOR DRAIN.
- 13 2 1/2" DOMESTIC WATER SUPPLY WITH SHUT-OFF VALVE. REFER TO DETAIL 3/P003.
- 14 6" FIRE WATER SUPPLY WITH OS&Y VALVE. SEE FIRE PROTECTION DRAWINGS FOR CONTINUATIONS. REFER TO DETAIL 3/P003.
- 15 3" FLOOR DRAIN TO SERVE DRENCH SHOWER. JR SMITH MODEL 2130 OR EQUAL.
- 16 TRENCH DRAIN, MIFAB MODEL T2000. COORDINATE LOCATION AND INSTALLATIONS WITH ARCHITECT.
- 17 INTERCEPTOR NO. 1, 80 GPM LINT INTERCEPTOR WITH NON SLIP COVER INSTALLED FLUSH WITH FLOOR. PROVIDE EXTENSION AS NEEDED.
- 18 LEAD FREE REDUCED PRESSURE BACKFLOW ASSEMBLIES ABOVE DOOR AND BELOW CEILING WITH FULL ACCESSIBILITY. COORDINATE LOCATION AND INSTALLATION WITH ARCHITECT. EXTEND DRAIN FULL SIZE FROM BACKFLOW ASSEMBLIES AND DISCHARGE TO EXTERIOR.
- 19 EXTEND 1" CW AND 1" HW TO WASHING MACHINE WITH PRESSURE TYPE VACUUM BREAKERS, WATER HAMMERS, SHUT-OFF VALVES, AND UNIONS.



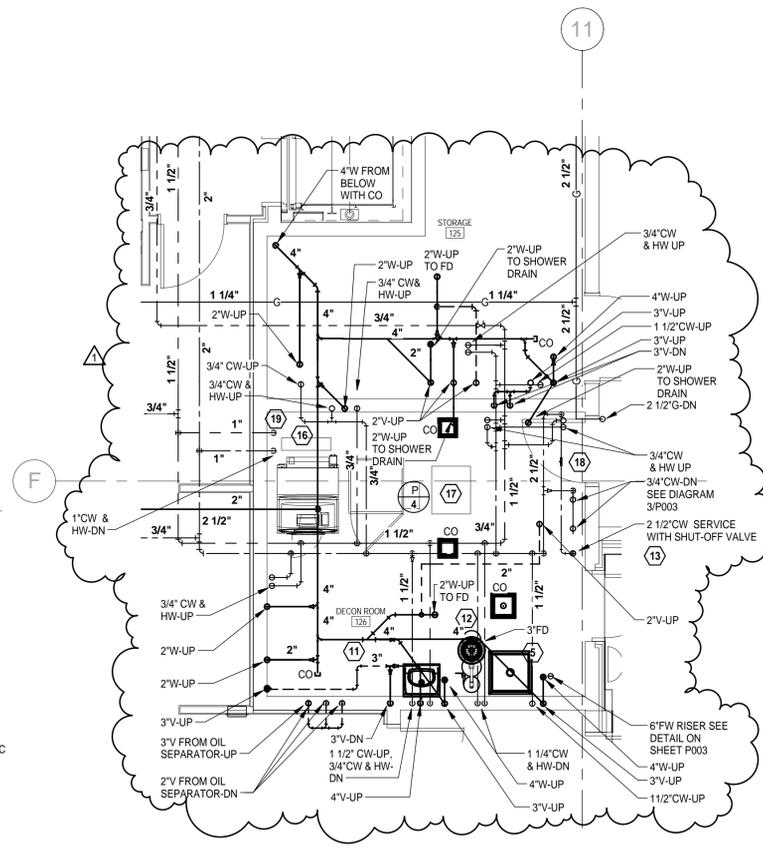
1 ENLARGED UNDERFLOOR PLUMBING - ROOM 110 & 116
 P200r 1/4" = 1'-0"



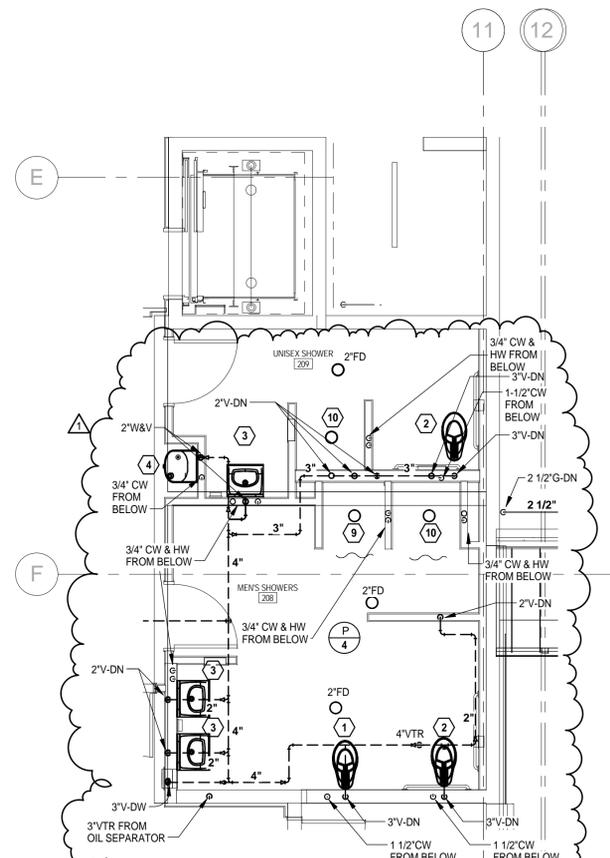
3 ENLARGED PLUMBING - ROOMS 110 & 116
 P200r 1/4" = 1'-0"



2 ENLARGED UNDERFLOOR PLUMBING - ROOM 126
 P200r 1/4" = 1'-0"



4 ENLARGED PLUMBING - ROOM 125 & 126
 P200r 1/4" = 1'-0"



5 ENLARGED PLUMBING - ROOM 208 & 209
 P200r 1/4" = 1'-0"

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1	Addendum #2	12-11-14

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PLUMBING - ENLARGED PLANS

	author	Author	drawing number
	project number	21167.00	P200r
	date	November 05, 2014	
	phase	CD	