

EXHIBIT 1

SPECIFICATION

FOR

VALRICO FORESTRY STATION

118 Dover Road, Dover, Florida 33527

ADMINISTRATION OFFICE BUILDING

&

EXISTING EQUIPMENT STORAGE BARN

INTERIOR IMPROVEMENTS

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STATE OF FLORIDA

DEPARTMENT OF AGRICULTURE & CONSUMER SERVICES

ADAM H. PUTNAM, COMMISSIONER



FLORIDA FOREST SERVICE

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October 21, 2011

BID SET

Specifications For: Valrico Forestry Station
Administration Office Building and Existing Equipment Storage Barn Improvements
118 Dover Road, Hillsborough County, Dover, Florida

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DIVISION 01 – GENERAL REQUIREMENTS

SECTION 01001 – CONTRACT DOCUMENTS, EXHIBITS & ATTACHMENTS

Architectural Building Plans

Architectural Plans as prepared under the direct supervision of:

William L. Ervin, Architect
Florida Forest Service
3125 Conner Blvd, Room K-219
Tallahassee, Florida 32399-1650

Civil Engineer Site Development Plans

Civil Engineering Plans as prepared by:

EMK Consulting of Florida, Inc.
7815 N. Dale Mabry Highway, Tampa, Florida 33614
EMK Project No. 30509.04

Exhibit – 1 Architectural Technical Specifications

Specifications as prepared by:

William L. Ervin, Architect
Florida Forest Service
3125 Conner Blvd, Room K-205
Tallahassee, Florida 32399-1650

Exhibit – 2 Geotechnical Soils Evaluation

Subsurface Soils Reports and Recommendations as prepared by:

Ramos Engineering & Associates, L.L.C. (RE&A)
2825 Minuteman Lane, Brandon Florida 33511-9504
RE&A Project No. 2825-11-003-GE

Submittals: CONTRACTOR to PROVIDE and INCLUDE with PERMIT APPLICATION PACKAGE

- 1. (FBC-B) Chapter 13, Energy Calculations** – To be PROVIDED BY MECHANICAL SUB-CONTRACTOR for ATTACHMENT to the PERMIT APPLICATION.
- 2. (NEC) General Branch Circuit, Feeder & Service load calculations** – To be PROVIDED BY ELECTRICAL SUB-CONTRACTOR for ATTACHMENT to the PERMIT APPLICATION.

End of Exhibits and Required Attachments to the Contract Documents

SECTION 01002 - SAFETY ON SITE

- Contractor shall post and/or provide product safety information on site at all times.
- Contractor shall use only qualified, experienced sub-contractors & workers.
- Contractor shall protect the public from the work with adequate barriers and signs.
- Contractor shall protect designated natural site features from the work with adequate barriers.
- Contractor shall follow plans, specifications and all governing regulatory agency requirements.
- Contractor & sub-contractors shall leave the site clean, properly store equipment and remove respective construction waste debris from the site daily.

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SECTION 01005 - PRODUCT SUBMITTALS

1. Contractor shall submit (3 sets) of Mfg. Product Literature for review and approval a minimum of 15 days prior to intended order date. Submittals shall include but not necessarily be limited to installation details, shop drawings, samples, color boards & etc for the following;
 - Section 01001 – Exhibits & Attachments to the Contract Documents;
Chapter 13 Florida Model Energy Code Compliance Calculations
(NEC) General Riser, Branch Circuit Feeder & Service Load Calculations
 - Section 03250 – Concrete Accessories
 - Section 03300 – Concrete Material Mix
 - Section 05050 – Cold Formed Steel Stud System – Equipment Storage Barn
 - Section 06193 – Plate Connected Wood Truss Systems
 - Section 07210 - Building Insulation
 - Section 07460 – Soffits & Siding System
 - Section 07611 – Metal Roofing – Administration Building
 - Section 07620 – Sheet Metal Flashing & Trim
 - Section 07812 – Applied Fire-Stop Sealants
 - Section 08110 – Steel Doors & Frames – Equipment Storage Barn
 - Section 08210 – Fiberglass Entry Doors – Administration Building
 - Section 08310 – Wood Interior Flush Doors
 - Section 08505 – Windows
 - Section 08710 – Door Hardware
 - Section 09100 – Drywall
 - Section 09300 – Both Interior & Exterior sample Boards: Siding, Trim, Roof
Ceiling, Wall, Door, Trim, Floor & Cabinet Material & Color Display Boards
 - Section 10520 – Fire Extinguishers
 - Section 12355 – Sink Cabinets
 - Section 15010 – Mechanical HV/AC – (See Section 01001)
 - Section 15110 – Mechanical Plumbing
 - Section 16500 – Electrical – (See Section 01001)

SECTION 01010 - SUMMARY OF THE WORK

1. Architectural Work: Shall consist of Constructing a new Administration Office Building and Enclosed Improvements to the existing Open Equipment Storage Barn including a reinforced concrete slab in the 50'x72' open Center Parking Bay and Enclosing the East 20'x72' Wing for a Equipment Storage area in accordance with Architectural Plans & Exhibit #1 – CONTRACT DOCUMENTS, EXHIBITS & ATTACHMENTS.
 - a. **Administration Office Building:** Consisting of a 1,200sf, one story wood frame “Type V-B” structure containing Administrative offices, a break room, conference room, supply closet, H/C toilet, and a mechanical equipment room intended for general business services.
 - b. **Storage & Open Equipment Barn Build out:** Consisting of a 3,600sf reinforced concrete slab for wilderness fire engines, heavy transport equipment, light vehicles storage, and 1,440sf of enclosed equipment storage area and preserving a Antique Dodge Power Wagon.
This Equipment Storage Barn is not intended as a District Maintenance/Repair Shop.
2. Civil Site Work: Shall consist of Site Improvements, entry drive paving, equipment yard crushed concrete paving & etc. as directed in the Civil Engineering plans & specifications prepared by EMK Consultants of Florida, Inc.
3. All work shall to be done in accordance with applicable federal, state & local laws, ordinances, rules, regulations, codes, standards and manufactures recommendations.
4. Contractor shall verify dimensions and conditions prior to start of construction.

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5. Contractor shall notify the DOF Project Manager, Dennis Reilly Jr. (Phone: 850-414-0838, Email: dennis.reilly@freshfromflorida.com), and submit in writing any inquiry that may require a "Clarification Determination", or "Supplementary Instructions" with no change in the contract time or cost. The same as the procedures followed for a "Request for Change Order" impacting conditions of the base contract time and/or cost submitted and supportive Contractor & Sub-Contractor material & labor cost proposals and justification information.
6. Contractor shall review and submit (3 sets) of manufacturer's submittal documentations, samples, and etc., within 15 working days of receiving his/her notice to proceed. All late submittal documentation, samples, and etc. shall be received for review a minimum of 15 working days prior to the proposed material order dates.
7. Contractor shall make no change without written approval from the Owners Agent.
8. Manufactures listed are descriptive not restrictive. The Contractor may submit for approval of other manufacturer products, with supportive documentation, after determining to her/his satisfaction they meet or exceed the applicable specification.
9. Prior to Close-out the Contractor shall provide (3) three, properly identified to the project, 3-ring binders containing all Manufacture equipment warranties, written guaranties, operating instructions, maintenance recommendations and all other Contractor and/or Sub-Contractor material and/or workmanship warranties or guaranties.

SECTION 01011 – ADMINISTRATION BUILDING CODE REVIEW

1. FLORIDA BUILDING CODE "BUILDING" (FBC-B):

CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION

Section 304 – Business Group B

304.1 Business Group B occupancy includes, among others, the use of a building or structure or a portion thereof, for office, professional service type transactions, including storage of records and accounts.

CHAPTER 10: MEANS of EGRESS

Table 1004.1.1 Maximum floor area allowances 100sf per occupant.

Section 1014.3 Common path of egress travel:

Exceptions: 2. When the tenant space in Group "B" occupancies has An occupancy load of not more than 30 and the length of travel shall not be more than 100 feet.

Section 1015.1 Exits or exit access doorways required:

Two exit or exit access doorways from any space shall be provided when one of following conditions exists:

1. The occupancy load exceeds (Table 1015.1) 49 occupants.
2. The common path of egress travel exceeds the limitations of Section 1014.3.

Section 1017.1 Corridors construction shall be fire rated.

Exceptions: 4. A fire-resistance rating is not required for corridors in an occupancy in Group "B" (business) which is a space requiring only a single means of egress complying with section 1015.1

2. FLORIDA BUILDING CODE "MECHANICAL" (FBC – M):

CHAPTER 6: DUCT SYSTEMS

Section 601.2 Air movement in egress elements:

Exceptions: 1. Toilet rooms & janitor closets, corridors may provide makeup air for exhaust systems.

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3. FLORIDA FIRE PREVENTION CODE 2007 FFPC “2006 NFPA 101 & 90B”

FFPC – NFPA 101:

CHAPTER 7: MEANS of EGRESS

Table 07.3.1.2 Occupancy load factor Group “B” (business, 100sf per person gross).

CHAPTER 38: NEW BUSINESS OCCUPANCYS

Section 38.2.1 Means of egress Requirements – General

38.2.1 All means of egress shall be in accordance with Chapter 7 & this chapter.

FFPC - NFPA 90B:

CHAPTER 4:

Section 4.2.4 – Public Corridors shall not be used as a portion of supply, return, or exhaust air system serving adjoining areas other than toilet rooms, bathrooms, sink closets, and similar auxiliary spaces opening directly on the corridor.

----- End of **SECTION 01011 Administration Building Code Review**-----

SECTION 01012 – CODE REVIEW – EQUIPMENT STORAGE BARN IMPROVEMENTS

1. FLORIDA FIRE PREVENTION CODE - (2007 FFPC – 2006 NFPA 101)

CODE ANALYSIS - EQUIPMENT STORAGE BARN IMPROVEMENTS

The Equipment Storage Barn is constructed as a Type IV – (6,480sf) Heavy Timber facility and includes the following:

Group S-2 (3,600sf) Open Engine Garage,

Group S-2 (1,440sf) Open Vehicle Equipment Shed,

Group S-2 (1,440sf) Enclosed Equipment & Misc. Storage Shed.

CHAPTER 3: Definitions

3.3 General Definitions

3.3.168 Occupancy

3.3.168.14 Separated Occupancy. A occupancy where the occupancies are separated by fire resistant-rated assemblies.

3.3.168.15* Storage Occupancy. An occupancy used primarily for the storage or shelving of goods, merchandise, products & vehicles.

3.3.240* Structure. That which is built or constructed.

3.3.240.6 Open Parking Structure.

(1) A structure used for parking or storage of motor vehicles that having: (a) At least 50% clear height, open the full length of at least two walls excluding columns. Interior wall lines and column lines shall be at least 20% open and uniformly distributed.

CHAPTER 6: Classification of Occupancy and Hazard of Contents

6.1 Classification of Occupancy

6.1.13 Storage. For requirements, see Chapter 42.

6.1.14. Multiple Occupancies.

6.1.14.1 General

6.1.14.1.1 Multiple occupancies shall comply with the requirements of 6.1.14.1 and one of the following:

(1) Mixed Occupancies – 6.1.14.3

6.1.14.4 Separated Occupancies

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6.1.14.4.1 Where separated occupancies are provided, each part of the building comprising a distinctive occupancy, as described in this chapter, shall be completely separated from other occupancies by fire-resistant assemblies as specified in 6.1.14.4.2, 6.1.14.4.3, & Table 6.1.14.4.1(a) & Table 6.1.14.4.1(b).

Table 6.1.14.1(b) 2-hour.

6.1.14.4.2 Occupancy separations shall be classified as 2-hour fire resistance-rated & shall meet the requirements of Chapter 8.

CHAPTER 42: Storage Occupancies

42.1 General Requirements

42.1.1 Application

42.1.1.2* Definition - Storage Occupancy. (See 3.3.168.15)

42.1.2 Multiple Occupancies. All multiple occupancies shall be in accordance with 6.1.14.

42.8 Special Provisions for Parking Structures

42.8.1 Special Provisions for Parking Structures

42.8.1.5 Classification of Hazard of Contents. Parking structures used only for the storage of vehicles shall be classified as ordinary hazard in accordance with Section 6.2.

42.8.1.6 Minimum Construction Requirements.
(No requirements)

42.8.1.7 Occupancy Load. (No requirements)

42.8.2 Means of Egress Requirements

42.8.2.5 Arrangement of Means of Egress

42.8.2.5.1 A common path of travel shall be permitted for the first 50' from any point in the parking structure.

42.8.2.5.2 Dead ends shall not exceed 50'

Table 42.8.2.6 Maximum Travel Distance to Exits

Level of Protection - Open Parking Structure

Not protected throughout by an approved supervised automatic sprinkler system is 300' in accordance with 9.7.1.1(1)

42.8.3 Protection

42.8.3.4.1.2 Open Parking Structures shall not be required to have a fire alarm system.

42.8.3.5 Extinguishing Requirements (No requirements).

----- End of FFPC – 101 Life Safety Code Review -----

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2. FLORIDA BUILDING CODE - (FBC-B)

CODE ANALYSIS - Equipment Storage Barn.

The Storage Barn is constructed as a **Type IV – (6,480sf) Heavy Timber** facility include a **Group S-2 (3,600sf) Open Equipment Storage Barn**, a **Group S-2 (1,440sf) Open Equipment Storage Shed**, a **Group S-1 (1,440sf) Enclosed Tools & Misc. Storage area.**

CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION

SECTION 311 – STORAGE GROUP S

311.3 Low-hazard storage, (1,440sf) Group S-1. Antique Engine, tools & misc. equipment.

311.2 Moderate-hazard storage, (3,600sf) Group S-2. Open Equipment Storage Barn complying within maximum allowable quantities of hazardous materials listed in Table 307.1(1).

311.3 Low-hazard storage, (1440sf) Group S-2. Open Equipment Storage Shed complying within maximum allowable quantities of hazardous materials listed in Table 307.1(1).

CHAPTER 4: SPECIAL DETAILED REQUIRMENTS BASED ON USE AND OCCUPANCY

SECTION 406 MOTOR-VEHICLE-RELATED OCCUPANCIES

406.3 Open parking garages.

406.3.2 Definition

OPEN PARKING GARAGE. A structure or portion of a structure with the openings as described in Section 406.3.3.1 on two or more sides that is used for the parking or storage of private motor vehicles as described in section 406.3.4.

406.3.3 Construction. Open parking garages shall be of type I, II, or IV construction ---

406.3.5 Area and height. Area and height of open repair garages shall be limited as set forth in Chapter 5 for Group S-1 occupancies and as further provided for in Section 508.3.

CHAPTER 5: GENERAL BUILDING HEIGHTS & AREAS

SECTION 508 MIXED USE AND OCCUPANCY

508.3 Mixed Occupancies.

508.3.3 Separated occupancies. Buildings or portions of buildings that comply with the provisions of this section shall qualify as separated occupancies.

508.3.3.1 Occupancy Classification. Separated occupancies shall be individually classified in accordance with Section 302.1. Each fire area shall comply with this code based on the occupancy classification of that portion of the building.

508.3.3.4 Separation. Individual occupancies shall be separated from adjacent occupancies in accordance with Table 508.3.3.

CHAPTER 6: TYPES OF CONSTRUCTION

SECTION 602 CONSTRUCTION CLASIFICATION

602.4 Type IV. Type IV Construction (Heavy Timber, HT) ---.

CHAPTER 9: FIRE PROTECTION SYSTEMS

SECTION 903 – AUTOMATIC SPRINKLER SYSTEMS

(F) 903.2.8.1 Group S-1. Repair Garages. (1) Building is one-story. (2) Building including fire area repair garage is less than 12,000sf. (3) Building Has No Basement.

----- End of FBC-B Code Review -----

END OF DIVISION – 01 GENERAL REQUIREMENTS

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DIVISION 02 – BUILDING SITE WORK

SECTION 02010 – SITE CONDITIONS

1. Finished site grading shall be finished to no less than 6” and no more than 1’-0” below finished floor elevations except as indicated at entry and exit access locations.
2. See Exhibit #2 Geotechnical Soils Evaluation documents for site and soil preparation recommendations.
3. Contractor is responsible for the repair of any disrupted or damaged areas of the surrounding site that may be caused by construction activities.

SECTION 02930 – SITE LANDSCAPING

1. See Civil Engineer Documents by EMK Consulting of Florida, Inc. for Site work, Utilities and Landscaping.

END OF DIVISION - 02

DIVISION 03 – CONCRETE

SECTION 03250 – CONCRETE ACCESSORIES

1. See drawings for special anchoring requirements.
2. Provide #5 deformed reinforcing foundation steel in accordance with drawings.
3. Provide 3” min. cover for steel bars in concrete cast against earth.
4. Provide pipe sleeves for conduit and pipes where required by code.
5. Provide 6x6 – W1.4 x W1.4 wire role and 6x6 - W2.9 x W2.9 wire matt for slabs in accordance with drawings.
6. Provide 6 mil polyethylene vapor barrier under slabs. Lap joints shall be 6” min.

SECTION 03300 – CONCRETE FOUNDATIONS

1. Provide standard mix to 3,000 PSI at 28 days.
2. Float and trowel finish slab to receive finish floor materials.
3. Maximum slab tolerance to 1/8” in 10’ (ft).
4. Slope paved parking slab areas 1” in 50’ to drain.

END OF DIVISION - 03

DIVISION 4 – MASONRY (NOT USED)

DIVISION 5 – METAL

SECTION 05050 – COLD FORMED STEEL STUDS – Equipment Storage Barn

1. Contractor shall provide effective quality control over all fabrication and erection in compliance with codes and regulations of government agencies having jurisdiction.
2. Metal studs shall be 18ga.x 6” (16ga @ roll-up door frame) cold formed galvanized steel spaced @ 1’-4”o.c.
3. Studs shall be laterally braced using full coverage gypsum board, horizontal galvanized hat-channels, and/or horizontal strap ties at intervals not to exceed 4’-0”o.c. vertical. See manufacturer recommendations for additional detailed information.

END OF SECTION – 05

DIVISION 6 - CARPENTRY

SECTION 06050 – FASTENERS & ADHESIVES

1. Exposed fasteners shall be hot-dipped galvanized or triple zinc coated.
2. Wood connectors shall be Simpson strong-tie connectors.
3. See the Florida Building Code, plans, specifications and/or manufacturer recommendations for specific fastener and/or anchor types.

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SECTION 06112 – FRAMING & SHEATHING – Administration Building

1. Material to be S4S and grade stamped as per PS-20, latest edition.
2. Materials shall be No. 2 S.Y.P. for all plates, beams and headers.
3. Studs shall be No. 2 fir or western pine.
4. Lumber in contact with concrete or earth shall be pressure-treated with womanized - hickson timber protection or other arsenic-free system.
5. 4" thick or less = 0.25 PCF retention, 4" thick or more = 0.40 PCF retention.
6. Treat all field cuts with *copper naphthenate solution* as per AWWA M4.
7. Nailing pattern for sheathing, roof and walls $\frac{5}{8}$ " OSB shall be 8b commons @ 4" O.C. edges and 12" O.C. interior.

SECTION 06193 – PLATE CONNECTED WOOD TRUSSES – Administration Building

1. Follow truss plate institute "handling, installing & bracing wood trusses" handbook HIB-9A.
2. Buildings and exterior components shall be certified to meet the Florida site specific required wind loads.

END OF DIVISION - 06

DIVISION 7 – THERMAL & MOISTURE PROTECTION

SECTION 07210 – BUILDING INSULATION

1. **Administration Office Building Insulation**
 - a. **Exterior Walls (6"):** R-21(51/2") high density kraft faced fiberglass batt insulation.
 - b. **Above Ceiling:** R-38(12") standard un-faced fiberglass batt insulation.
2. **Equipment Storage Barn**
 - a. **Firewall (6"):** R-21(51/2") high density kraft faced fiberglass batt insulation.
 - b. **Roof (6"):** R-21(51/2") high density faced fiberglass batt insulation.

SECTION 07460 – SOFFITS AND SIDING – Administration Building

1. $\frac{1}{4}$ " Fiber-cement board by James Hardie Co.
2. Flame-spread rating = 0
3. fiber Smoke-developed rating = 5 (ASTM E 84) min. to corner = 2"
4. Pre-drill for stainless steel 4D common nails, $1\frac{1}{2}$ " long 6" O.C.
5. $\frac{1}{4}$ " Nailing edge distance = $\frac{3}{8}$ " min.
6. $\frac{1}{4}$ " fiber-cement horizontal siding by James Hardie Co. to be installed in accordance with manufacturer's instructions.
7. Fascia shall be shall be James Hardie 1x6 (actual size $\frac{3}{4}$ "x $5\frac{1}{2}$ ") over a 2x sub-fascia.
8. Soffits shall be James Hardie perforated/vented $\frac{1}{4}$ " soffit material.

SECTION 07611 – METAL ROOFING – Administration Building

1. Metal roofing shall be rock-lok as manufactured by Semco, Inc. or approved equal.
Roofing Panels shall meet the following specification:

Application:	Commercial
Features:	Mechanically seamed, concealed fastener panel
Coverage:	16" wide panel coverage, 2" rib height
Slope:	Minimum 6 in 12
Substrate:	24 Ga. Galvalume steel sheets
Finish Options:	Forest Green
Warranty:	25 year panel, 40 year finish

2. Fastenings and closers shall be as recommended by the manufacturer.

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3. Roof penetrations shall be flashed using "Dektite" or approved equal.
4. Accessories shall be manufactured by roofing manufacturer and shall include but not necessarily limited to the following:
 - a. **Eave drips**
 - b. **Raised Ridge Vent**
 - c. **Downspouts**
 - d. **Continuous butyl tape joint seals**
 - e. **Outside Closers**
 - f. **Gutter**
 - g. **Gable/rake flashing**

SECTION 07620 – SHEET METAL FLASHING & TRIM

1. Provide Galv. Flashing Cap at exterior window & door head trim & continuous exposed end wall horizontal James Hardie 10" trim band.

SECTION 07800 – CAULKING & SEALANT

1. High Performance Intumescent Firestop Sealant shall be used to protect penetrations, wall to timber column connections, and wall to underside of roof contact areas in accordance with manufacturer's recommendations.
2. Hilti "FS-One", durable fire sealant for insulated & non-insulated metal pipes, with or without sleeve, jacketed cables, cable bundles, plastic pipes and top of wall joints for up to a 4 hr. wall.

END OF DIVISION – 07

DIVISION 8 – DOORS & WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES – EQUIPMENT STORAGE BARN

PART 1 GENERAL

1.1 SUBMITTALS

- A. Product Data: Three (3) sets of manufacturer's data sheets and specifications. Include schedule identifying each unit, with door marks or numbers referencing drawings. Show layout, profiles, product components, anchorages Installation and manufacturer's printed installation instructions.
- B. Certificates: Product certificates signed by the manufacturer certifying material compliance with ANSI A250.8.
- C. Florida Building Code certification for 120mph (3sec) gust.

1.2 QUALITY ASSURANCE

- A. All products shall conform to the requirements of ANSI A250.8, "SDI 100 Recommended Specifications for Standard Steel Doors and Frames".
- B. Acoustical doors shall have a min. Sound Transmission Classification Rating of 38.
- C. Fire Rated doors shall be tested in accordance with UL 10B, "Fire Tests of Door Assemblies", NFPA 252, "Fire Tests of Door Assemblies", and UL 10C, "Positive Pressure Fire Tests of Door Assemblies".
- D. Fire Rated doors shall have an approved certification label.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Store materials under cover. Avoid use of non-vented shelters to prevent forming of humidity chambers that cause rust.
- B. Provide ¼" inch spacing between doors to provide air circulation.

1.4 MANUFACTURERS

- A. Acceptable Manufacturer: Republic Doors and Frames or similar in design and construction.

1.5 DOORS CONSTRUCTION

- A. Doors: Full flush
 1. Thickness: 1-3/4 inches.
 - a. ANSI Level 3, Model 1; 16 gage faces, visible edge seams.
 2. Face Material: Galvannealed steel sheet.
 3. Insulated Doors: Insulated; U-value of 0.13, polystyrene core.
 - a. Core: Doors fabricated by laminating panels to core and the complete unit closed with steel perimeter channels, projection welded to the face sheets.

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4. Steel Stiffened Doors: Steel reinforced with minimum 22 gage hat shaped stiffeners welded to the inside of each face sheet at maximum of 6 inches on center, with mineral wool filling spaces between stiffeners.
- B. Door Reinforcements:
 1. Top and Bottom Channels: 16 gage steel, projection welded to both face sheets at a maximum of 2-1/2 inches on center.
 - a. For exterior Doors fill top channel with epoxy and grind smooth.
 2. Hinge Reinforcement: Hinge reinforcing channel shall be projection welded to both face sheets at a maximum of 5 inches on center.
 - a. 1-3/4 inch thick reinforced with continuous 11 gage channel with 10 gage reinforcements located at each hinge preparation.
 3. Lock Reinforcing Channel: Continuous 16 gage channel, with tapped holes extruded to 14 gage Channel shall be welded to both face sheets at a maximum of 5 inches on center.
 4. Closer Reinforcement: 12 gage box type reinforcement, 18 inches long.
- C. Acoustical Doors: Sound Transmission Classification (STC) Rating of 38 when tested according to ASTM E 90.

1.6 FRAMES CONSTRUCTION

- A. Frames: Formed steel sheet, with 2 inch wide face jambs and heads indicated; complying with ANSI A250.8.
 1. Frame Depth: Adjustable within 2 inches of nominal depth.
 2. ANSI Level 1 Doors: 18 gage frames.
 3. ANSI Level 2 Doors: 16 gage frames.
 4. Material: Galvannealed steel sheet.
 5. Corners: Mitered; knockdown type.
 6. Finish: Factory prime finish.
- B. Reinforcements for 1-3/4 Inch Frames:
 1. Hinge Reinforcements: 9 gage.
 2. Strike Reinforcement: 10 gage.
 3. Closer Reinforcements: 12 gage.
- C. Frame Anchors: Minimum of six wall anchors and two base anchors.

1.7 FACTORY FINISH

- A. All doors and frames shall be cleaned and finished in accordance with ANSI A250.10.

PART 2 EXECUTION

2.1 EXAMINATION

- A. Verify that substrate conditions are acceptable for installation of doors and frames in accordance with manufacturer's installation instructions.

2.2 INSTALLATION

- A. Install frames plumb, level, rigid and in true alignment in accordance with ANSI A250.11, "Recommended Erection Instructions for Steel Frames" and ANSI A115.IG, "Installation Guide for Doors and Hardware".
- B. Install fire-rated doors and frames in accordance with NFPA 80 and local code authority requirements.
- C. Install doors to maintain alignment with frames to achieve maximum operational effectiveness and appearance. Adjust and shim to assure proper clearances.
- D. Install hardware in accordance with the hardware manufacturer's recommendations and templates.

2.3 CLEARANCES

- A. Clearance between the door and frame head and jambs for both single swing and pairs of doors shall be 1/8 inch.
- B. Clearance between the meeting edges of pairs of doors shall be 3/16 inch plus or minus 1/16 inch. For fire rated applications, the clearance between the meeting edges of pairs of doors shall be 1/8 inch plus or minus 1/16 inch.

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- C. Bottom clearance shall be 3/4 inch.
- D. The clearance between the door face and door stop shall be 1/16 inch to 1/8 inch.
- E. All clearances shall be, unless otherwise specified, subject to a tolerance of plus or minus 1/32 inch.

2.4 ADJUSTING AND CLEANING

- A. Adjust doors for free swing without binding.
- B. Adjust hinge sets, locksets, and other hardware. Lubricate using a suitable lubricant compatible with door and frame coatings.
- C. Clean installed products in accordance with manufacturer's instructions before owner's

2.5 PROTECTION

- D. Protect installed products and finished surfaces from damage during construction.

SECTION 08210 - FIBERGLASS ENTRY DOORS – ADMINISTRATION BUILDING

PART 1 - GENERAL

1. SECTION INCLUDES

- a. 6 Panel Fiberglass Entrance Door and Sidelight facings
- b. Hardwood Framing Systems
- c. Thermal & Sound Insulation
- d. Glazing

2. REFERENCES

- a. American Architectural Manufacturer Association (AAMA)
 - 1. AAMA 1304; Voluntary Spec. for Forced Entry Resistance of Side-Hinged Door Systems.
- b. ASTM International
 - 1. ASTM E 1886; Standard Test Method for Performance of Exterior Doors and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
 - 2. ASTM E 1996; Standard Specification for Performance of Exterior Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes
- c. Florida Building Code
 - 1. FBC Section 1626: High Velocity Hurricane Zones – Impact Tests for Windborn Debris.

3. SUBMITTALS

- a. Refer to Section 01005 - Product Submittals for procedures.
- b. Product Data: Submit door manufacturer current product literature, including installation instruction.
- c. Manufacturer Instructions: Provide manufacturer's written installation instructions.
- d. Closeout Submittals
 - 1. Refer to: Section 01010 – 9. Closeout Submittals.

4. DELIVERY, STORAGE AND HANDLING

- a. Deliver doors, materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
- b. Store doors as recommended by manufacturer.

5. WARRANTY

- a. Manufacturer standard warranty indicating that doors will be free from material and workmanship defects from the date of substantial completion for the time periods indicated below:
- b. Door System: Limited Lifetime
- c. Auralast Frame: Limited Lifetime.

PART 2 - PRODUCTS

1. MANUFACTURER

- a. JELD-WEN® FiberLast Doors; www.jeld-wen.com.

2. MATERIALS

- a. Stiles and Rails: Engineered wood (laminated veneer lumber); AuraLast stiles and rail; composite bottom rail.
- c. Core: Polyurethane core for stable insulation.

4. FIBERLAST ENTRANCE DOORS AND SIDELIGHT

- a. Thickness: 1-3/4 inch.
- b. Door Style: Six 6 Paneled.
- c. Door Shape: Squared Top.

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- d. Finish Smooth White: Color: Verify Color with Owners Scheme.
- e. Hardware: Prep door for supplied lockset.
- f. Entry Locksets: See drawings for hand.
 - a) Exterior escutcheon plate
 - b) Mortise lock
 - c) Interior round escutcheon plate
 - d) Interior operator: Lever
 - e) Finish: Satin Nickel.

6. PREHUNG HARDWOOD SYSTEMS

- a. Profile: System 01 – Single Door with Sidelight & Jamb.
- b. Profile: System 02 – Single Door & Jamb.
- c. Jambs: Solid pine Auralast wood.
 - 1. Width: 6-9/16 inch (Verify).
 - 2. Profile: Rabbeted.
- d. Casing: Hardie Trim Board Exterior.
- e. Hinges: Solid brass concealed-bearing.
 - 1. Size: 4 by 4 square.
 - 2. Finish: Satin Nickel.
- f. Sills: Aluminum with Polished Aluminum Finish.

7. CONSTRUCTION ACCESSORIES

- a. Flashing
 - 1. In Accordance with Manufacturers Recommendations.
- b. Sealants
 - 1. Provide manufacturer recommended sealants to maintain watertight conditions.

8. FABRICATION

- a. Skins are adhered to engineered wood frames with core materials and bonding agents that permanently lock skin to frame.

PART 3 EXECUTION

1. GENERAL

- a. Install doors in accordance with manufacturer's installation guidelines and recommendations.

2. EXAMINATION

- a. Inspect door prior to installation.
- b. Inspect rough opening for compliance with door manufacturer recommendations.
- c. Verify rough opening conditions are within recommended tolerances.

3. INSTALLATION

- a. Install jamb assembly.
 - 1. Caulk sill along outside edge and ½ inch in from edge of subfloor.
 - 2. Set door unit into center of opening and tack in place

SECTION 08310 – WOOD INTERIOR DOORS

COMPOSITE DOORS - Flush Interior Doors

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Passage Doors

1.2 SUBMITTALS

- A. Refer to Section 01005 – Product Submittals.
- B. Product Data: Submit door manufacturer current product literature, including installation instruction.
- C. Samples: Provide finish samples for all products.
- D. Quality Assurance Submittals
 - 1. Manufacturer Instructions: Provide manufacturer's written installation instructions.
- E. Closeout Submittals
 - 1. Refer to Section 01010 – Summary of the Work (Item #9).

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1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver doors, materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Store doors as recommended by manufacturer.

1.6 WARRANTY

- A. Manufacturer standard warranty indicating that the door will be free from material and workmanship defects from the date of substantial completion for the time periods indicated below:
 - 1. Door Unit: 5 years

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. JELD-WEN® Interior Doors; Phone 877.535.3462, fax 541.882.3455; website www.jeld-wen.com.
- B. Basis of Design: Doors are based on Flush Interior Doors.

2.2 PASSAGE DOORS

- A. Core and Frame
 - 1. Solid core with all-wood frame.
 - 2. Thickness: 1-3/8 inch.
- B. Jambs
 - 1. Jamb Width: 4-9/16 inch
 - 2. Jamb Type: Split
 - 3. Jamb Species: Stainable Pine
- C. Hardware
 - 1. Finish: Brushed Chrome
- D. Flush Interior Door Panel
 - 1. Unfinished Hardwood: Rotary-Cut Red Oak.

PART 3 - EXECUTION

3.1 GENERAL

- A. Install doors in accordance with manufacturer's installation guidelines and recommendations.

3.2 EXAMINATION

- A. Inspect door prior to installation.
- B. Inspect rough opening for compliance with door manufacturer recommendations. Verify rough opening conditions are within recommended tolerances.

3.3 PREPARATION

- A. Prepare door for installation in accordance with manufacturer's recommendations.
- B. Trim bottom of jamb sides to achieve desired distance between door bottom and finished floor height.

3.4 INSTALLATION

- A. Place door unit into opening and level hinge side of jamb. Use shims fastened through jamb and stop to level and temporarily secure in place.
- B. Level latch side of jamb. Use shims fastened through jamb and stop to level and temporarily secure in place.
- C. Verify spacing between jamb and door is uniform on all sides. Adjust as necessary.
- D. Shim top of jamb in center of opening and fasten with nail.
- E. Re-check for square, level and even spacing around door. Nail securely in place through stop, jamb, shims and into studs every 12 inches.
- F. Set nails.
- G. Install trim on both sides using nails every 12 to 16 inches.

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SECTION 08505 – ALUMINUM WINDOWS

1. Windows shall be equal to Superior Window Corp. extruded aluminum alloy, baked enamel finish, single hung, tilt sash, baked enamel finish and low-e insulated glazing.
2. Screens shall be fabricated from extruded aluminum with min .040 and finished to match window color.
3. Florida Building Code 120mph wind speed (3sec gust) certification.

SECTION 08710 – DOOR HARDWARE

1. Door Locks shall be equal to Schlage “D” series or Hager Co., Grade 1, Extra Heavy Duty.
2. See drawings for Door Schedule and keying instructions to be include with submittals.
3. Door Closers shall be equal to Hager 5300 Series Heavy Duty interior surface mounted.
4. Door Kick Plate shall be equal to Hager Co., 190S Stainless Steel.
5. Door Threshold shall be equal to Hager Co., 520S J101 Metal Armor Plate.
6. Door Stops shall be equal to Hager Co. Concave Wall Stop 236W.

END OF DIVISION - 08

DIVISION 9 – FINISHES

SECTION 09100 – DRYWALL

1. Administration Building ceiling shall be 5/8” Drywall.

SECTION 09300 – FLOORING

Part 1. CARPETING

1. Carpeting shall be Bigelow Commercial or similar in design and construction.

a. Carpeting shall be tested for and in accordance with:

Flammability: ASTM E 648, Class 1 (Glue Down)
Smoke Density: ASTM E 662, Less than 450
Static Properties: AATCC-134, Under 3.5 KV

b. Carpeting Description: Bigelow Commercial

Product Type: Broadloom
Construction: Tufted
Surface: Level Heathered Loop
Fiber Type: Colorstrand SD Nylon
Pile Weight: 28.0 oz. per. sq. yd.
Dye Method: Solution Dyed
Protective Method: Sentry Plus
Primary Backing: Woven Polypropylene
Backing foundation: Single Primary
Secondary Backing: Woven Polypropylene

c. Carpeting Warranties:

Lifetime Limited Wear Warranty
Lifetime Limited Colorfastness to Light
10 Year Limited Colorfastness to Atmospheric Contaminants
10 Year Sentry Plus Stain Warranty
Lifetime Static

d. Wood Base: EverTrue 3-1/4” Primed Radiata Pine Base

Style: Traditional #631 Style Material: Pine
Finish: Primed Thickness: 0.563

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Part 2. VINYL COMPOSITION TILE

- a. Vinyl Tile shall be Armstrong Commercial Grade or similar in design and construction.
Size VCT: 12"x 12"
Thickness: 1/8"
- b. Vinyl Base shall be Armstrong or similar in design and construction.
Vinyl Cove Base: 4"
Base Corners: Pre-manufactured inside & outside corners.
Locations: Equipment Storage Barn - Ranger Room & Admin. Bldg. Mech. Room
- d. Vinyl Warranties:
Time: 5 Years Commercial VCT flooring product warranty. Material supplier does not warrant installation or workmanship.
Terms: First year: replace defective material & pay reasonable labor to install new material.
Second year: replace defective material & pay 50% of reasonable labor cost.
After Second Year: replace defective material if within remaining warranty period. Contractor is responsible for all labor cost.

Part 3. CERAMIC TILE

- 1. Ceramic Tile shall be Daltile – Keystones (Color to be selected by owner)
Ceramic Field Floor Tile 2"x 2"
Ceramic Wall Tile 4"x 4"
Ceramic Base Built-Up Bull Nose Stretcher 4"x 4"

SECTION 09910 - INTERIOR PAINTS AND COATINGS

Part 1 GENERAL

1.1 SECTION INCLUDES

- A. Interior paint and coatings systems including: paint, stains, transparent coatings, and opaque finishes

1.2 SUBMITTALS

- A. Submit under provisions of Section 01005, product submittals.
- B. Product Data: Manufacturer's data sheets on each paint and coating product should include:
 - 1. Product characteristics, surface preparation instructions and recommendations, primer requirements and finish specification, storage and handling requirements and recommendations, application methods and cautions.
- C. Selection Samples: Submit a complete set of color chips that represent the full range of manufactures color samples available.
- D. Verification Samples: For each finish product specified, submit samples that represent actual product, color, and sheen.

1.5 MOCK-UP

Provide mock-up color & material boards. When deciding on the extent of the mock-up, consider all the major different types of painting on the project.

- A. Finish surfaces for verification of products, colors, & sheens
- B. Finish areas as designated
- C. Provide samples that designate prime & finish coats
- D. Do not proceed with remaining work until the Owners Project Manager approves the mock-up samples.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver manufacturer's unopened containers to the work site. Packaging shall bear the manufacture's name, label, and the following list of information:
Product name, description, application, instructions, surface preparation, VOC content, environmental issues, batch date & color number.
- B. Storage: Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.
Store materials in an area within the acceptable temperature range, per manufacturer instructions.

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C. Handling: Maintain a clean, dry storage area, to prevent contamination or damage to the coatings.

1.7 PROJECT CONDITIONS

A. Maintain environmental conditions within limits recommended by manufacturer. Do not apply coatings under environmental conditions outside manufacturer's absolute limits.

Part 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: (see SECTION 01010 – SUMMARY OF THE WORK, Item #8)

The Sherwin-Williams Company

101 Prospect Avenue NW, Cleveland, OH 44115

Tel: (800) 321-8194 Fax: (216) 566-1392 Web: www.sherwin-williams.com

B. When submitting request for substitution, provide complete product data for each substitute product.

2.2 APPLICATION/SCOPE

A. Paint all exposed surfaces.

B. Finish & prep surfaces as follows: The descriptions of each system can also be used to further refine the definition of what is to be painted, stained, or clear finished.

D. Surfaces To Be Coated:

Concrete - Cement Board Siding & Trim

Concrete – Interior Floors

Metal - Aluminum, Galvanized Flashing

Metal - Structural Steel Truss Beams (if damaged in storage or assembly)

Wood - Doors, Trim, etc

Drywall – Walls & Ceilings, etc

2.3 PRODUCTS

A CONCRETE – (Cement Siding Board)

1. Latex Systems

a. Flat Finish

1st Coat: S-W ProMar® 200 Latex Flat Wall Paint, B30W200 Series

Top Coat: S-W ProMar® 200 Latex Flat Wall Paint, B30W200 Series
(4 mils wet, 1.4 mils dry per coat)

B. CONCRETE – (Floors)

1. Concrete Sealer

a. Clear Finish

1st Coat: S-W ArmorSeal, Tread-Plex, B90

2nd Coat: S-W ArmorSeal, Tread-Plex, B90
(1.5 - 2.0 mils dry per coat)

C. METAL - FERROUS (Structural Steel Truss Beams)

1. Latex Systems

a. Semi-Gloss Finish

1st Coat: S-W Pro Industrial Pro-Cryl® Primer, B66-310 Series
(2-4 mils dry)

2nd Coat: S-W ProMar® 200 Latex Semi-Gloss, B31W2200 Series

3rd Coat: S-W ProMar® 200 Latex Semi-Gloss, B31W2200 Series
(4 mils wet, 1.3 mils dry per coat)

D. WOOD (Interior Doors)

1. Stain & Varnish

a. Stain & Clear Finish

1st Coat: S-W Wood Classics® Interior Oil Stain, A49 Series

2nd Coat: S-W Wood Classics® Waterborne Polyurethane Varnish

3rd Coat: S-W Wood Classics® Waterborne Polyurethane Varnish
(4 mils wet, 1.0 mil dry per coat)

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E. WOOD (Door Frames & Trim)

1. Latex Systems

- a. Satin Finish
 - 1st Coat: S-W PrepRite ProBlock Latex B51 Series
(4 mils wet, 1.4 mils dry)
 - 2nd Coat: S-W ProMar 200 Latex Eg-Shel B20W2200
 - 3rd Coat: S-W ProMar 200 Latex Eg-Shel B20W2200
(4 mils wet, 1.5 mils dry)

F. DRYWALL (Walls, Ceilings & etc.)

1. Latex Systems

- a. Flat Finish
- High Build Finish**
- b. 1st Coat: S-W ProMar® 200 XP Interior Latex Flat, B30W3200 Series
(10-14 mils wet, 4.6-6.4 mils dry per coat)
- 2nd Coat: S-W ProMar® 200 XP Interior Latex Flat, B30W3200 Series
(10-14 mils wet, 4.6-6.4 mils dry per coat)

2.4 MATERIALS - GENERAL REQUIREMENTS

- A. Paints and Coatings - General: Unless otherwise indicated, provide factory-mixed coatings. When required, mix coatings to correct consistency in accordance with manufacturer's instructions. Do not reduce, thin, or dilute or add materials to coatings unless such procedure is specifically described in manufacturer's instructions.
- B. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.

2.5 ACCESSORIES

- A. Coating Application Accessories: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required, per manufacturer's specifications.

Part 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin application of coatings until substrates have been properly prepared. Notify Owners Agent of unsatisfactory conditions.
- B. Proceed with work only after conditions have been corrected and approved, otherwise application of coatings will be considered as an acceptance of surface conditions.

3.2 SURFACE PREPARATION

- A. Proper product selection, surface preparation and application affect coating performance. Selection and implementation of proper surface preparation ensures coating adhesion to the substrate and prolongs the service life of the coating system.
- B. The surface must be dry and in sound condition. Remove oil, dust, dirt, loose rust, peeling paint or other contamination to ensure good adhesion.
- D. Remove mildew by washing with a solution of 1 part liquid household bleach and 3 parts of warm water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry 48 hours before painting. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

E. Methods

- 1 Aluminum: Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning.
- 3 Concrete, SSPC-SP13 or NACE 6
This standard gives requirements for surface preparation of concrete by mechanical, chemical, or thermal methods prior to the application of bonded protective coatings. The requirements of this standard are applicable to all types of cementitious surfaces including cast-in-place concrete floors and wall surfaces.
- 4 Cement Composition Siding/Panels
Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Peeled or checked paint should be scraped and sanded to a sound surface. Pressure clean, if

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needed, with a minimum of 2100 psi pressure to remove dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly.

- 5 Drywall—Interior
Surface must be clean and dry. All nail heads must be set and spackled. Joints must be taped and covered with a joint compound. Spackled nail heads and tape joints must be sanded smooth and all dust removed prior to painting.
- 6 Galvanized Metal
Clean per SSPC-SP1 using detergent and water or a degreasing cleaner to remove greases and oils. Apply a test area, priming as required. Allow the coating to dry at least one week before testing. If adhesion is poor, Brush Blast per SSPC-SP7 is necessary to remove these treatments.
- 7 Steel: Structural, Plate, etc.
Should be cleaned by one or more of the surface preparations described below. These methods are used throughout the world for describing methods for cleaning structural steel. Visual standards are available through the Society of Protective Coatings. A brief description of these standards together with numbers by which they can be specified follow.
- 8 Solvent Cleaning, SSPC-SP1
Solvent cleaning is for removing all visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants. Change rags and cleaning solution frequently so deposits of oil and grease are not spread over additional areas in the cleaning process. Be sure to allow adequate ventilation.
- 9 Hand Tool Cleaning, SSPC-SP2
Hand Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. Before hand tool cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1.
- 10 Water Blasting, NACE Standard RP-01-72
Removal of oil grease dirt, loose rust, loose mill scale, and loose paint by water at pressures of 2,000 to 2,500 psi at a flow of 4 to 14 gallons per minute.
- 11 Wood
Must be clean and dry primed and painted as soon as possible. Knots and pitch streaks must be scraped, sanded, and spot primed before a full priming coat is applied. Patch all nail holes and imperfections with a wood filler or putty and sand smooth.

3.3 INSTALLATION

- A. Apply all coatings and materials with manufacture specifications in mind. Mix and thin coatings according to manufacture recommendation.
- B. Do not apply to wet or damp surfaces.
 - 1 Wait at least 30 days before applying to new concrete or masonry. Or follow manufacturer's procedures to apply appropriate coatings prior to 30 days.
 - 2 Wait until wood is fully dry after rain, fog or dew.
- C. Uniformly apply coatings without runs, drips, or sags, without brush marks, and with consistent sheen.
- D. Regardless of number of coats specified, apply as many coats as necessary for complete hide, and uniform appearance.
- E. Inspection: Final coated surface must be inspected and approved by the Owners Project Manager.

3.4 PROTECTION

- A. Protect finished coatings from damage until completion of project.
- B. Touch-up damaged coatings after substantial completion, following manufacturer's recommendation for touch up or repair of damaged coatings. Repair any defects that will hinder the performance of the coatings.

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DIVISION 10 – SPECIALITIES

SECTION 10520 – FIRE EXTINGUISHERS

Fire Extinguishers: Larsen's model MP10, UL rating #A4-80B/C including standard wall bracket #546.

SECTION 10620 – FLAMMABLE SAFETY CABINET

1. Flammable Safety Cabinet shall comply with the National Fire Protection Association Flammable Combustible Liquid Code#30 and OSHA 29 CFR 1910.106 standard for Flammable Storage of Class I, II and III Liquids.
2. Cabinet shall consist of Double walled construction 18ga all welded steel with 1-1/2" insulating air space to help keep temperatures down.
3. Safety Cabinet shall include a built in grounding connector.
4. Cabinet shall include a duel air vent system with 2" diameter threaded fittings, fire baffle and cap, 4 adjustable leveling legs, 3-point key lock, and 2" raised leak proof door sill.
5. Doors shall have continuous piano hinges for added security.
6. Shelving shall be adjustable galvanized steel designed for a 350lb capacity.
7. Color shall be a yellow high gloss powder coat finish with red warning label.

**END OF DIVISION - 10
(NOT USED)**

DIVISION 11 – EQUIPMENT

DIVISION 12 - FURNISHINGS

SECTION 12355 – WOOD SINK CABINET:

1. Sink cabinet components shall be prefinished wood & plywood construction and clear sealed interior wood surfaces as follows:
 - Doors - $\frac{3}{4}$ " hardwood with mortise & tendon joints and floating $\frac{1}{4}$ " plywood veneered center panel
 - Face frame - $\frac{3}{4}$ " x 1-5/8" solid hardwood
 - Exposed sides - $\frac{1}{2}$ " plywood veneer
 - Floor - $\frac{1}{8}$ " plywood
 - Back - $\frac{1}{2}$ " plywood
 - Shelves - $\frac{3}{4}$ " plywood with hardwood exposed edge
 - Wall Unit T & B - $\frac{1}{2}$ " plywood
2. Counter top shall be plastic laminate surface including 4" backsplash at walls and cutout for double sink (verify type & size).
3. Cabinet hardware shall be wire type with brush satin nickel pulls.
4. Partial overlay hinges, side mount drawer glides & wall cabinet base locking shelf rest are to be included as part of the cabinet package.

END OF DIVISION - 12

DIVISION 13 – EXISTING SPECIAL CONSTRUCTION

SECTION 13120 – EXISTING PRE-ENGINEERED POST & BEAM EQUIPMENT BARN

1.2 GENERAL DESCRIPTION of the Existing Equipment Barn

(see plans for the New 20' x 72' enclosed equipment storage room)

- a. This existing structure section describes the 120mph (30sec gust) design, construction and assembly of the various component parts providing a weather tight, structurally sound post & beam open equipment barn. Including but not necessarily limited to Building drawings including post to ground embedded footings, foundation,

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tie-down anchors, bolted beam, post and purlin connections, wind bracing, eaves, rake and other misc. manufacturer recommended details as provided by the building and component system supplier.

1.3 DESCRIPTION

- a.** Existing 8"x8" (PT) rough sawn timber columns are set in 24" diameter embedded concrete footings set at 12'o.c. and to the outside face on each end bay in accordance with the pre-engineered building systems engineer of record erection documents.
- b.** Existing 4/12 pitch 48'-8" clear horizontal span steel truss beam bolted inside 8"x 8" columns spaced 50'-0" outside to outside.
- c.** Existing 2/12 pitch 19'-4" clear horizontal span bay extension truss beam bolted inside 8"x 8" column spaced 20' to outside face braced as required for load conditions.
- d.** Existing 2x6 No. 2 grade (SYP) wood purlins spaced at 2'-0"o.c. and pressure treated at all exposed perimeter edge locations.
- e.** Existing 26ga. Tuff-Rib exposed fastener system with ¾" tall ribs 9"o.c., 36" panel width and continuous tape seal at lap joints.
- f.** Existing eave, rake and vented ridge cap flashing, inside closure strips and continuous tape seal.
- g.** Panel & metal trim color to be Forest Green
- h.** Florida wind load 120mph basic wind speed (3 second gust) certification for the fully assembled structure.

END OF DIVISION - 13

DIVISION 14 – CONVEYING SYSTEMS (NOT USED)

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DIVISION 15 – MECHANICAL

SECTION 15110 – MECHANICAL PLUMBING SUPPLY & WASTE

1. Contractor shall connect to the site utilities, including water and sewer lines which will be stubbed-out by “others” within 10’-0” of the building.
2. Solid waste and vent pipe shall be PVC or CPVC plastic pipe conforming to the Florida Building Code, plumbing.
3. Solid waste pipe 3” and larger shall be sloped at a min. grade of 1/8” per foot.
4. Solid waste pipe smaller than 3” shall be sloped at a min. ¼” per foot.
5. Water supply inside buildings may be CPVC plastic piping or tubing.
6. Insulate all hot water piping installed above grade with 1” thick fiberglass sectional pipe covering with an ASJ jacket.
7. All plumbing work shall be installed in strict accordance with the current applicable “Florida Building Code, Plumbing” (FBC-P).
8. Piping installed above grade, verify hose bib thermal protection requirements.

SECTION 15114 – MECHANICAL PLUMBING FIXTURES (see plans for locations)

1. General – Kohler, Elkay, Oasis (P8ACSL), Rheem (82V40-2), Bosch (2.5gal.), Ariston (2.5gal.) 120v, Woodford and Pro-set are listed as the standard of quality, other manufacturer fixtures may be submitted with manufacturer submittal documentation in for comparative review and approval.
2. All fixtures shall include drains, stops, faucets and other trim items required for proper installation and operation.
3. Water closet, elongated bowl, 1.28 gallons per flush. With elongated open front seat, seat cover, post hinges and flexible risers with stops.
4. Lavatory, vitreous china, Wall mount 18”x 22” Kohler with single lever faucet, pop-up waste, 17 gauge chromium plated 1 ¼” “P” trap, shroud and flexible riser with stops.
5. Kitchen sink, two compartment Elkay, 20 gauge stainless steel with 17 gauge 1 ½” “P” trap, continuous waste, ice maker tee, all C.P., strainers, flexible risers with stops, and single lever faucet with spray.
6. Hose bib with vacuum breaker, Woodford with ½” connection. Water Heaters electric with vacuum relief valve, heat trap, P & T relief valve and thermostatic expansion valve. See detail on plans for connection required.
 - a. Assembly shall meet or exceed ASHRAE standard 90, ANSI requirements, UL standards and state energy efficiency performance criteria.
 - b. Tank shall bear a 5 year minimum warranty against defects in workmanship.
7. Contractor shall thoroughly clean all plumbing fixtures, remove all labels, and check fixtures for proper operation prior to final building acceptance.
8. Provide operational, maintenance, and spare parts data for owner’s use for all items of equipment and plumbing fixtures. Data shall be provided in triplicate in three ring binders and transmitted to owner at completion of project.

Specifications For: Valrico Forestry Station
Administration Office Building and Existing Equipment Storage Barn Improvements
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SECTION 15010 - HVAC

1. **Refrigerant Piping:** Use type K hard drawn copper with silver soldered joints in accordance with ASHRAE standard #14. Insulate all piping subject to condensation with 3/8" wall flexible unicellular insulation slipped over piping with all joints sealed.
2. **Ductwork:** Rigid, in strict accordance with SMACNA Duct Construction standards, metal and flexible for a maximum of 0.5 total SP and a maximum 1,200 feet/min. velocity.
3. **Ductwork Insulation:** Wrap all ductwork with a flexible fiberglass blanket having an installed "R" value of 6.0 or greater and a vapor barrier jacket. Seal all joints in vapor barrier.
4. **Flexible Ductwork:** Flexible ductwork used for run outs to ceiling diffusers shall be Class A, type 1 flexible air duct with an insulated jacket which has an installed "r" value of 6.0. Spin-in taps, provide spin in taps with air scoop and operable damper at all trunk duct connections to diffuser run outs. Connections shall conform to SMACNA standards.
5. **Drain Piping:** Provide 3/4" schedule 40 PVC drain piping with solvent welded joints for evaporator drains. Trap drain piping and extend to an approved dry well located exterior of building.
6. **Heat Pump Units:** Furnish split system heat pump units with Minimum of 15.5 SEER, 12.0 EER & 8.5 HPSF ratings. Units shall be furnished complete and shall include an extended five (5) Year compressor warranty. Acceptable units are Trane, Rheem, American Standard, Bryant, Carrier or York, unless otherwise noted.
7. **Controls:** Provide low voltage heating/cooling 7 day Programmable Digital heat pump thermostat. Install control wiring in conduit and color code wiring.
8. **Grilles and Diffusers:** Grilles and diffusers are as scheduled on plans. Air guide is used as a basis of design and standard of quality.
9. **Submittals:** Contractor shall submit all items of equipment and materials for approval prior to ordering or installing equipment or ductwork. See general sections for additional submittal requirements.

END OF DIVISION - 09

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DIVISION 16 – ELECTRICAL

SECTION 16510 - ELECTRICAL GENERAL CONDITIONS

1. The contractor shall notify the project manager and appropriate persons within local utilities 48 hours before commencement of any work, to verify location of existing below grade pipes, cables, poles, towers, and right of ways that could be hazardous to life, limb or health.
2. This contractor will be held solely responsible for any damage as stated above.
3. Provide all labor, materials and equipment for a complete and proper operating electrical system as shown on drawings or specified herein.
4. All electrical work shall be in strict compliance with the National Electrical Code NFPA 70, ANSE, and Power Co.
5. All materials shall be new, free from defects and shall bear the “Underwriter’s Laboratory” label.
6. The contractor shall thoroughly investigate site before bidding.
7. **WORKMANSHIP**: All materials and equipment shall be installed in accordance with the approved recommendation of the manufacturer and to conform to the contract documents subject to the approval of the project manager. The installation shall be accomplished by workmen skilled in the type work involved.
8. **TEMPORARY POWER**: This contractor shall make all necessary arrangements for temporary electrical construction power.
9. **CONDUIT**: Where required by local authority, wire shall run in conduit. Conduit shall be PVC.
10. **CONDUCTORS**: All conductors shall be copper.
11. **DEVICES**: Outlet, junction and switch boxes shall be code grade fiberglass. Switches shall be single pole 120 volt, “quiet type”, code grade, grounded-color to be selected by project manager. Receptacles shall be code grade, grounded, color to be selected by the project manager.
12. **GROUND FAULT INTERRUPTER (GFI)**: Shall be duplex receptacle G.E. # TGTR115F or square “D”.