

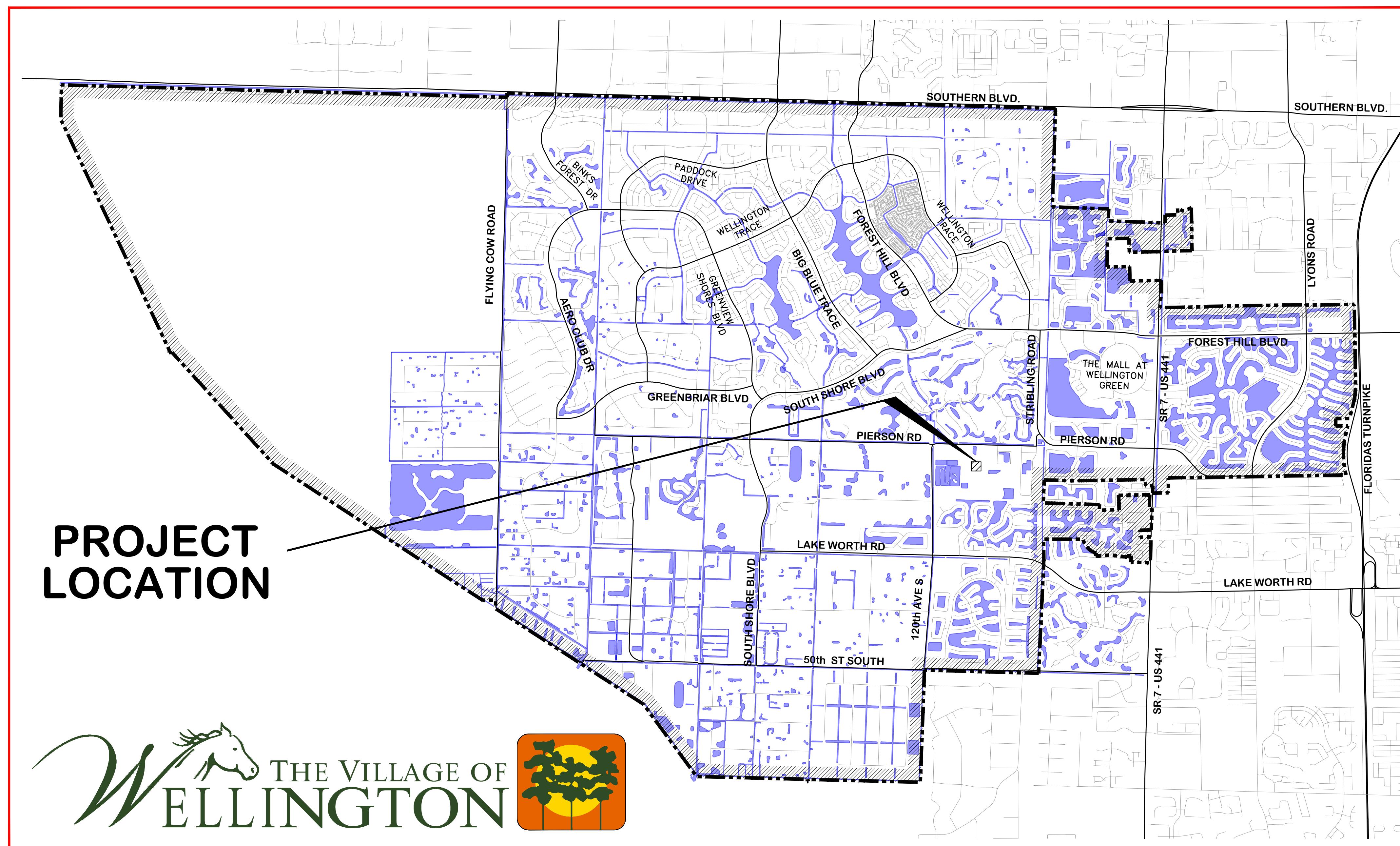
CONCESSION STAND DOOR REPLACEMENTS FOR VILLAGE PARK

VILLAGE COUNCIL
ANNE GERWIG - MAYOR
MICHAEL DRAHOS - VICE MAYOR
JOHN T. McGOVERN - COUNCILMAN
MICHAEL J. NAPOLEONE - COUNCILMAN
TANYA SISKIND - COUNCILWOMAN

11700 PIERSON RD

DRAWING INDEX

SHEET NO.	DESCRIPTION
COV	COVER
1	GENERAL NOTES
2	OVERALL LOCATION MAP & SCOPE OF WORK
3	ROLLER HOCKEY CONCESSION STAND DOOR REPLACEMENT LOCATIONS
4	BASEBALL CONCESSION STAND DOOR REPLACEMENT LOCATIONS
5	FOOTBALL CONCESSION STAND DOOR REPLACEMENT LOCATIONS
6	DOOR SPECIFICATIONS



PAUL SCHOFIELD - VILLAGE MANAGER
THOMAS LUNDEEN - VILLAGE ENGINEER

REPRODUCTION:
ATTENTION IS DIRECTED TO THE FACT THAT THESE
PLANS MAY HAVE BEEN REDUCED IN SIZE BY
REPRODUCTION. THIS MUST BE CONSIDERED WHEN
OBTAINING SCALED DATA.

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THE VILLAGE OF WELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

START DATE	12/2017	SHEET NO. COV
DRAWN	A.T.D.	
PROJECT ENGINEER	T.J.L.	
PROJECT MANAGER	T.J.L.	
CHECKED	T.J.L.	
JOB NO.		N/A



BID PLANS
06 / 04 / 2018

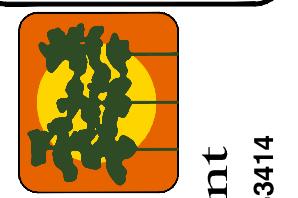


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LOCATION MAP
FOR
CONCESSION STAND DOOR REPLACEMENTS
VILLAGE PARK

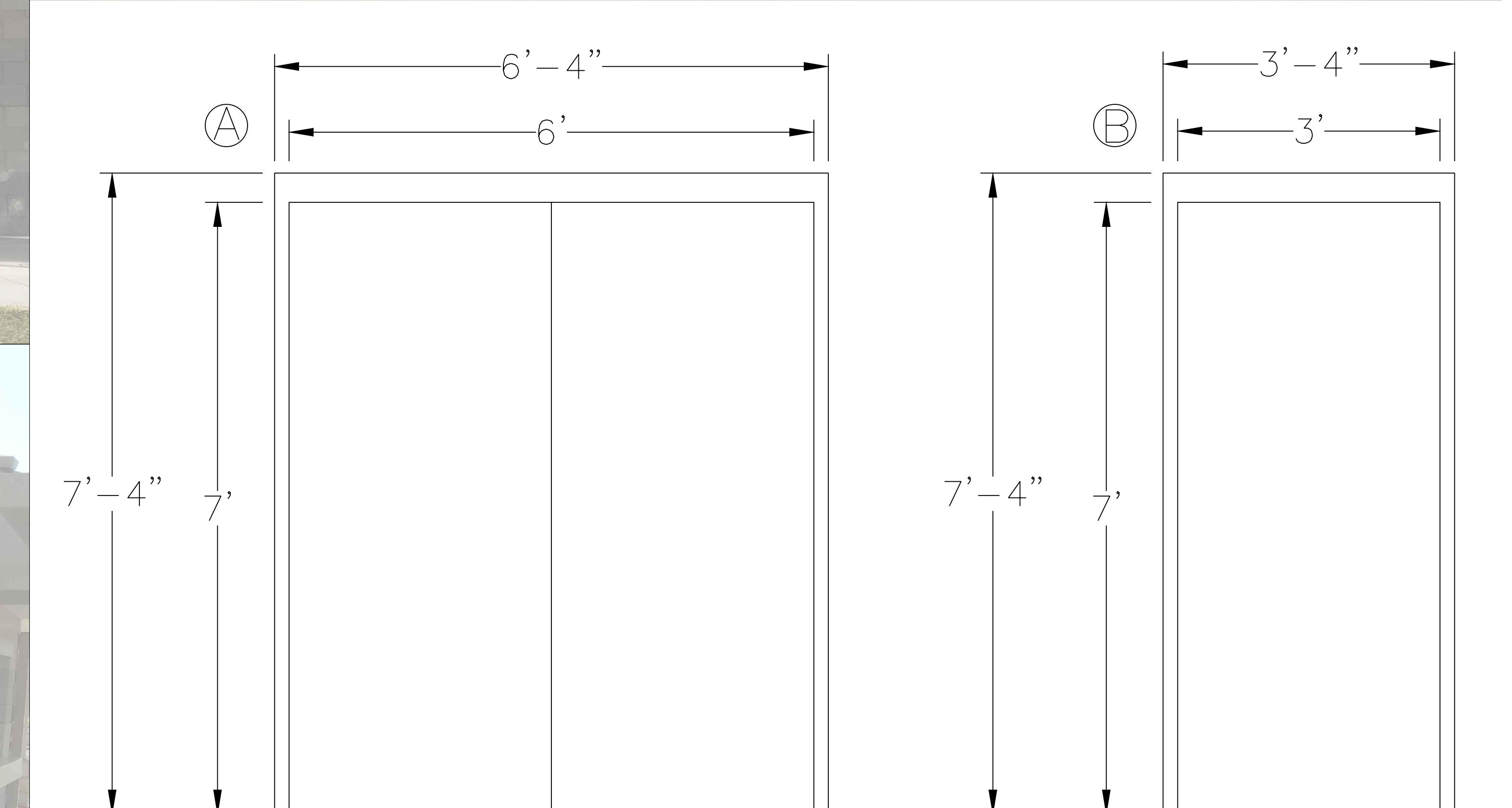
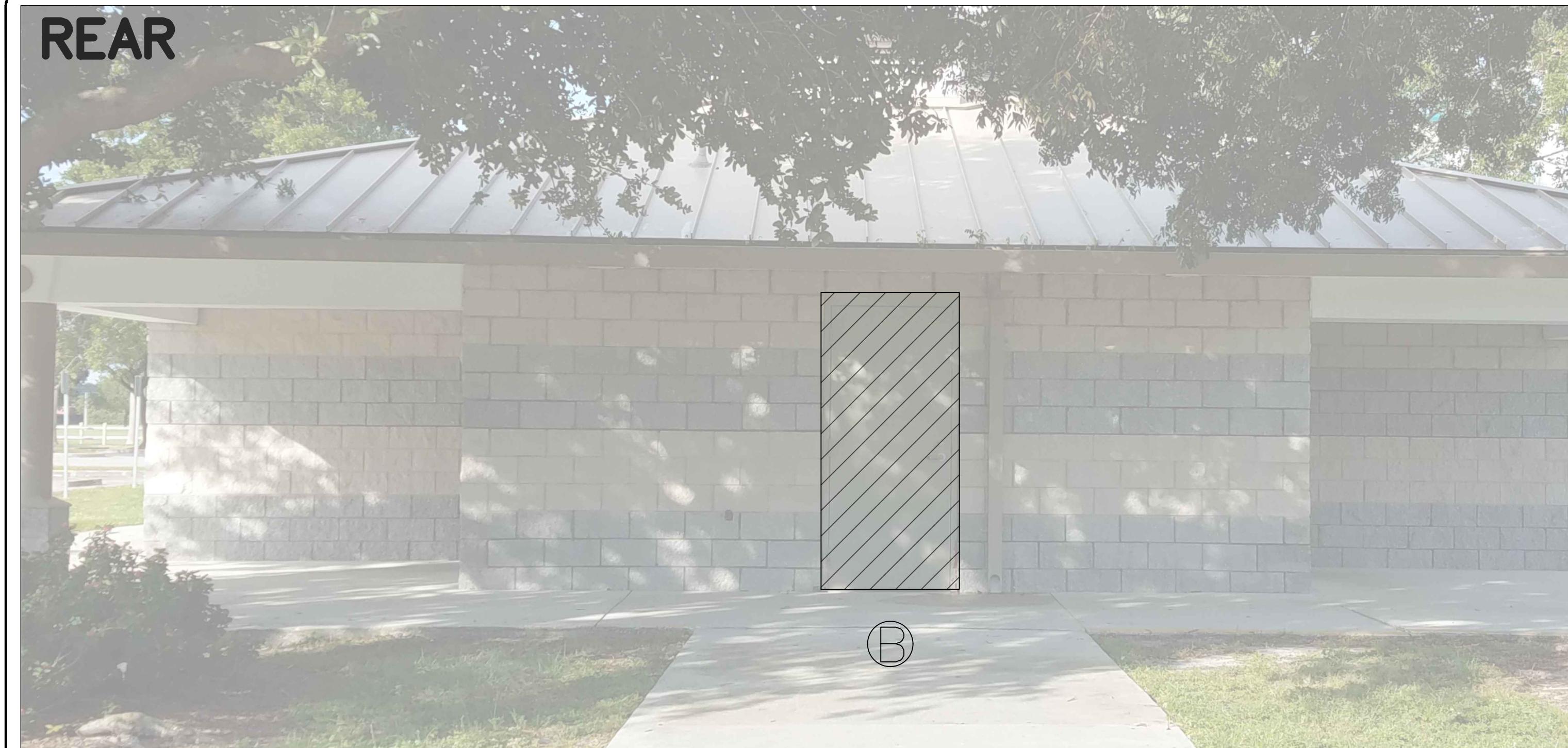


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Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

ITEM NO.	START DATE	12/2017
1	DRAWN	A.I.D.
2	PROJECT ENGINEER	T.J.L.
3	PROJECT MANAGER	T.J.L.
4	CHECKED	T.J.L.

W. DEPARTMENT OF ENGINEERING, VILLAGE OF WELLINGTON, FLA., DRAWS THIS DRAWING

BY



NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. REPLACE DOOR AND FRAME WITH CHEM-PRUF MANUFACTURED PRODUCTS OR EQUAL.
3. CONTRACTOR SHALL SECURE OPENING IF REPLACEMENT CANNOT BE COMPLETED IN 24 HOURS.
4. CONTRACTOR SHALL REINSTALL EXISTING SIGNAGE.
5. INSTALL DOORS WITH LOUVERS/VENTS FOR THE RESTROOMS.

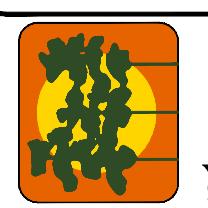
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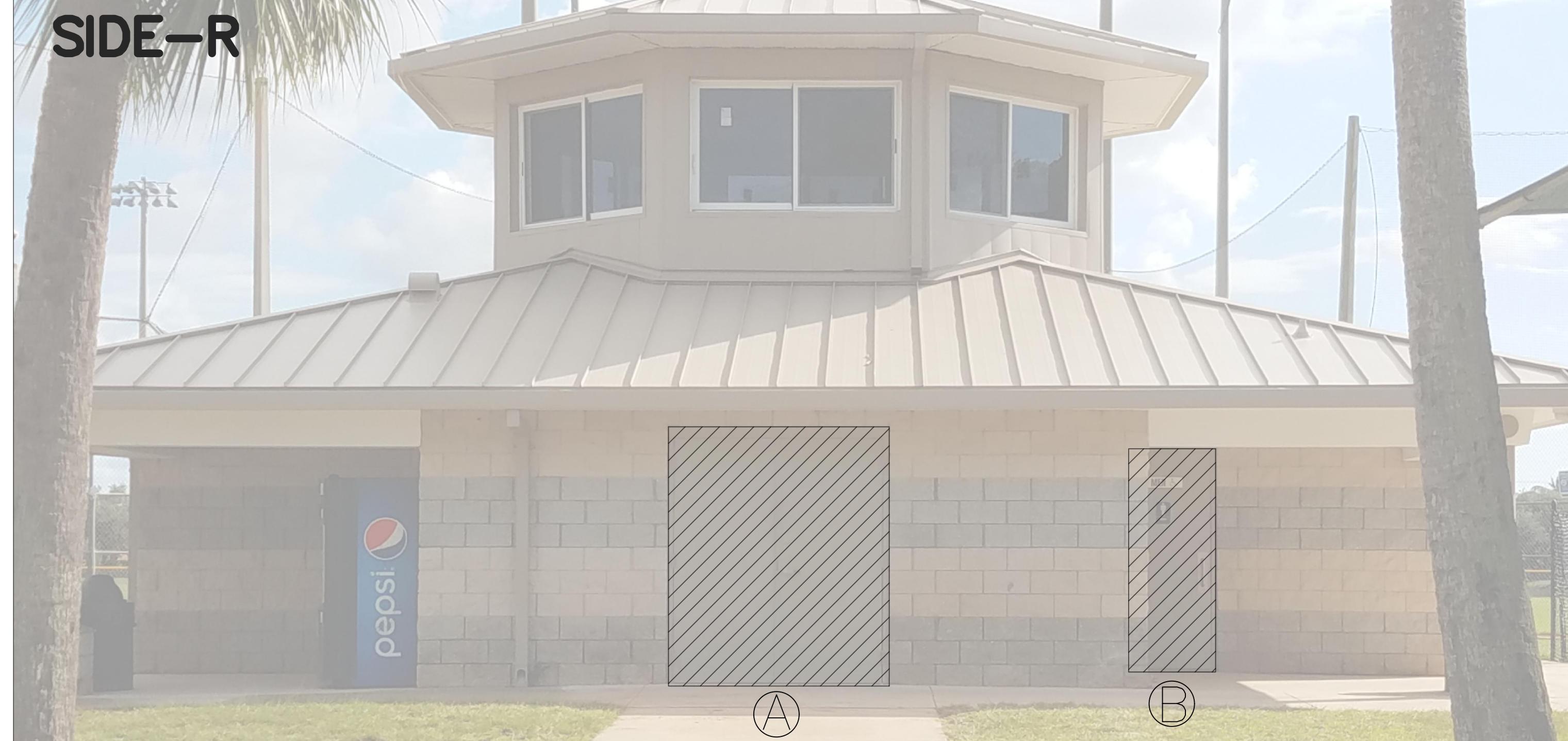
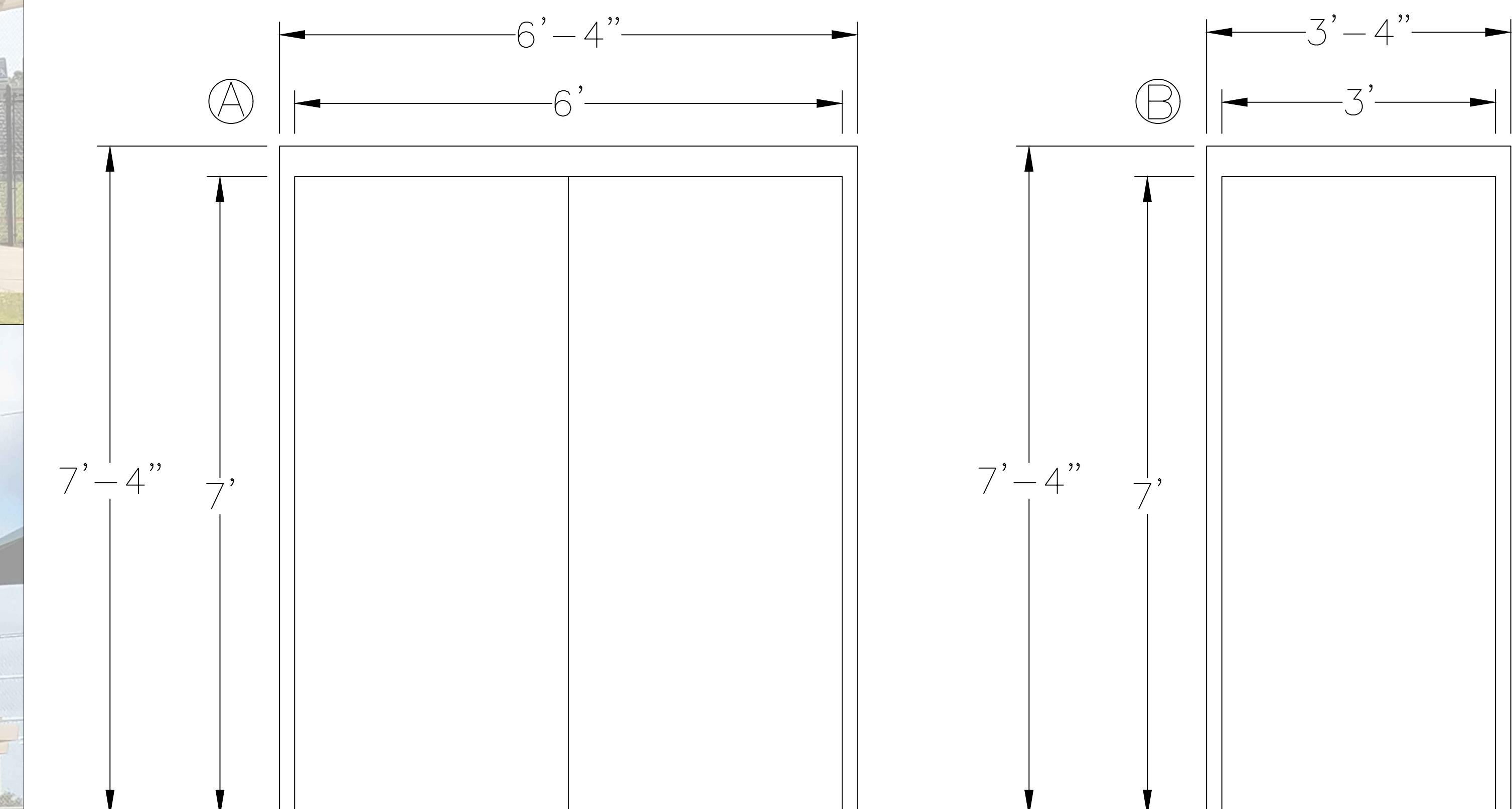
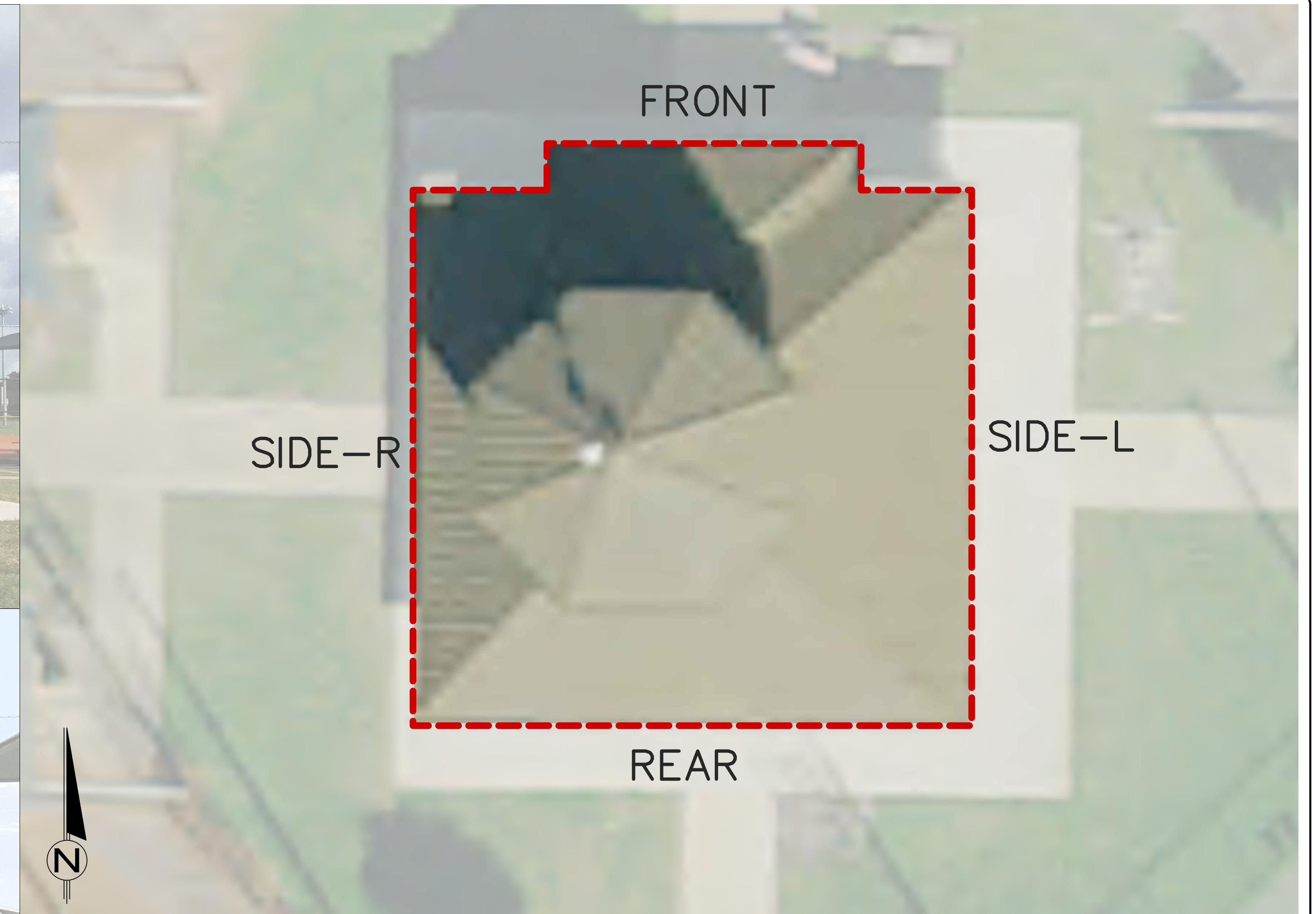
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DOOR REPLACEMENT DETAIL
FOR
ROLLER HOCKEY CONCESSION STAND
VILLAGE PARK



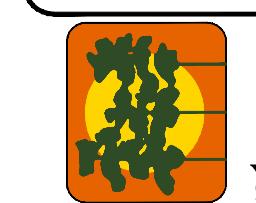
11/10/02	START DATE	12/20/01
.02	DRAWN	A. T.D.
	PROJECT ENGINEER	T.J.L.
	PROJECT MANAGER	T.J.L.
	CHECKED	T.J.L.
3		
JOB NO.		
N/A		

REAR**SIDE-R****SIDE-L****NOTES:**

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. REPLACE DOOR AND FRAME WITH CHEM-PRUF MANUFACTURED PRODUCTS OR EQUAL.
3. CONTRACTOR SHALL SECURE OPENING IF REPLACEMENT CANNOT BE COMPLETED IN 24 HOURS.
4. CONTRACTOR SHALL REINSTALL EXISTING SIGNAGE.
5. INSTALL DOORS WITH LOUVERS/VENTS FOR THE RESTROOMS.

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BY

DOOR REPLACEMENT DETAIL
FOR
BASEBALL CONCESSION STAND
VILLAGE PARK

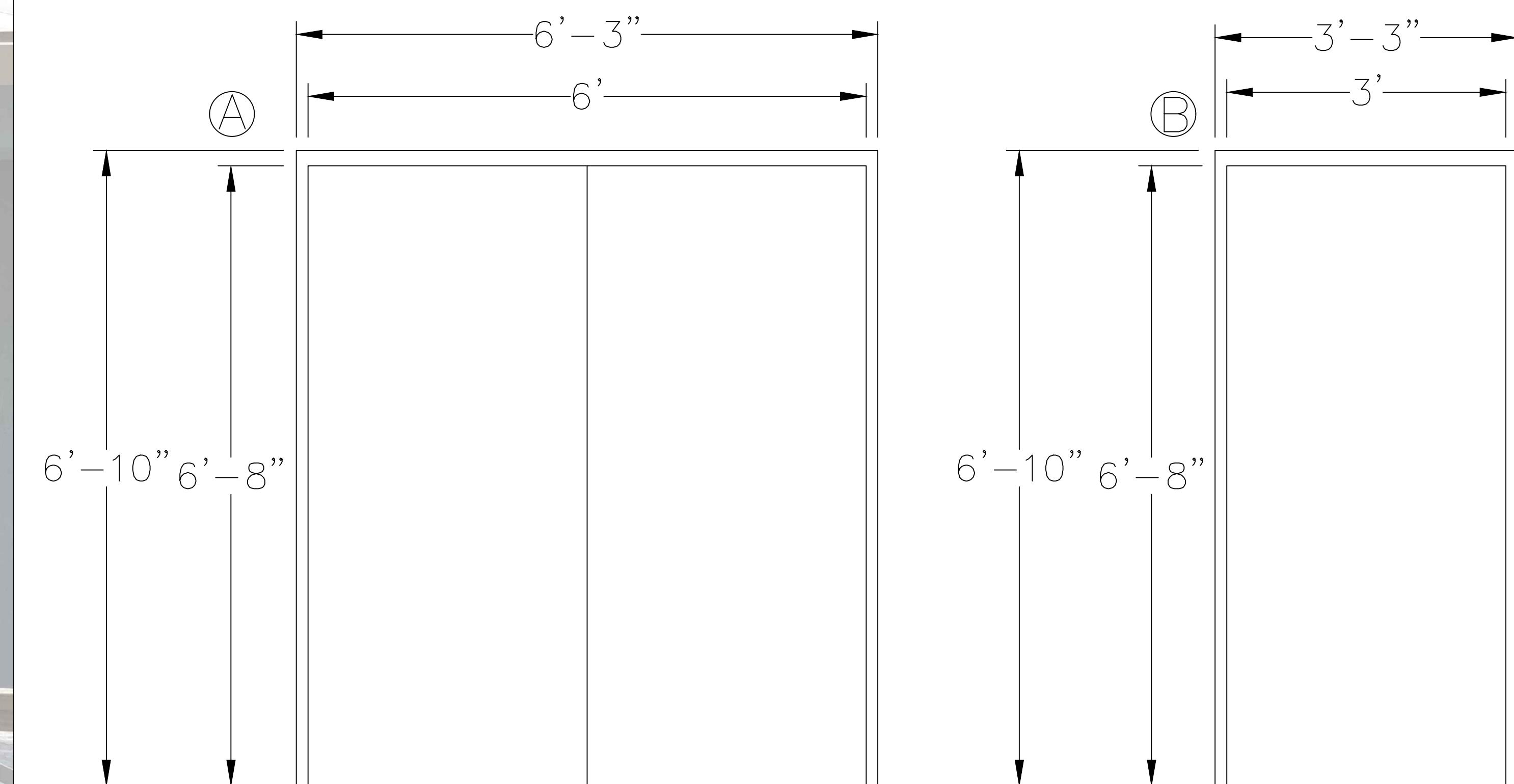
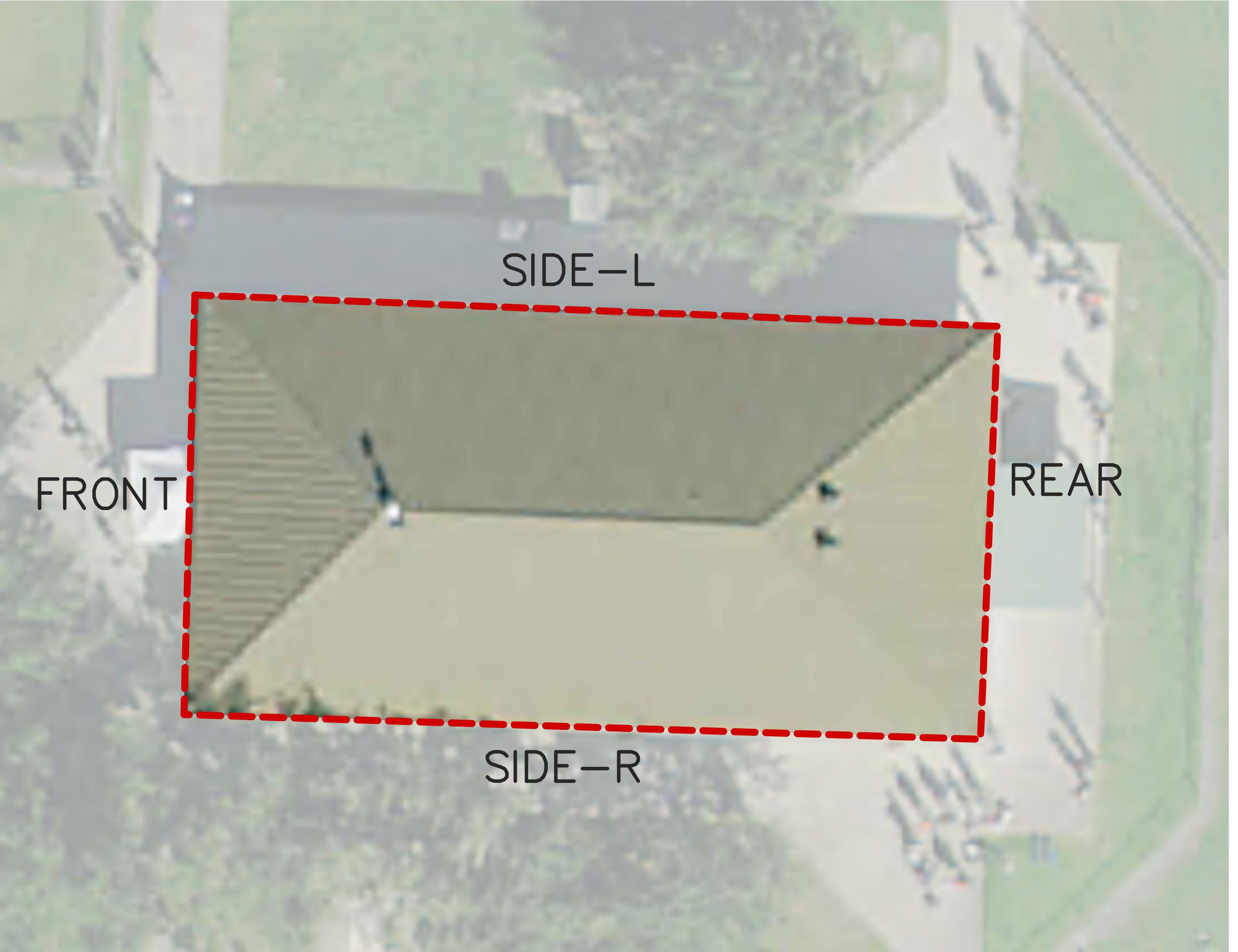
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REMARKS

SIDE-R



SIDE-L

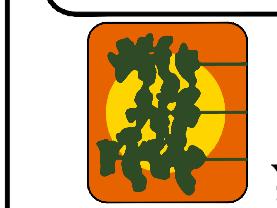


NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. REPLACE DOOR AND FRAME WITH CHEM-PRUF MANUFACTURED PRODUCTS OR EQUAL.
3. CONTRACTOR SHALL SECURE OPENING IF REPLACEMENT CANNOT BE COMPLETED IN 24 HOURS.
4. CONTRACTOR SHALL REINSTALL EXISTING SIGNAGE.
5. INSTALL DOORS WITH LOUVERS/VENTS FOR THE RESTROOMS AND THE ELECTRICAL ROOM.

BID PLANS
06 / 04 /2018

ITEM NO.	DESCRIPTION	START DATE	END DATE
5		12/2017	A.I.D.



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REMARKS
NO. DATE
BY

DOOR REPLACEMENT DETAIL
FOR
FOOTBALL CONCESSION STAND
VILLAGE PARK

SECTION 08220

FIBERGLASS REINFORCED PLASTIC (FRP) DOORS AND
FIBERGLASS RESIN TRANSFER MOLDED DOOR FRAMES
MODEL CP9
DOUBLE HURRICANE DOOR WITH TRANSOM - LITE & LOUVER
MANUFACTURED IN THE UNITED STATES OF AMERICA
FBC +/- 55 psf

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section Includes The Following:
 - 1. Fiberglass Reinforced Plastic (FRP) Doors
 - 2. Fiberglass Resin Transfer Molded Door Frames

1.2 RELATED SECTIONS

- A. Related Sections Include The Following:
 - 1. Division 0 - Bidding and Contract Requirements
 - 2. Division I - General Requirements
 - 3. Division 8 - Finish Hardware
 - 4. Division 8 - Glazing

1.3 QUALITY ASSURANCE

Test certification by **independent and accredited laboratories** is required for the properties listed in this Quality Assurance section. Reports shall be made available upon request for each of the standards and certifications described below.

- A. Reference Standards
- 2. Door Properties

- a) Standard test method for steady state thermal transmission properties by means of the heat flow meter apparatus.
- b) Successfully completed 1,000,000 cycles test in accordance with:
AAMA 920-03 - Specification for Operating Cycle Performance of Side-Hinged Exterior Door Systems.
ANSI A250.4-2001 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frame Anchors and Hardware Reinforcements.
NWWDA TM-7 Test Method to Determine the Physical Endurance of Wood Doors and Associated Hardware Under Accelerated Operating Conditions.
- c) Additional Testing
SFBC PA 201 Impact procedures for large missile impact.
SFBC PA 202 Uniform static load on building components
SFBC PA 203 Products subjected to cyclic wind pressure.
SFBC 3603.2 Forced Entry Test
ASTM E 1886 Performance of Exterior Protective Systems
ASTM E 1996 Impact Performance of Exterior Protective Systems
ASTM C 518 Heat Transfer Properties of Materials
ASTM D 1761 Mechanical Properties of Fasteners
- 1530 lb

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DOUBLE HURRICANE FBC DOOR Specifications - Model CP9

Fiberglass Doors And Frames

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3. Laminate Properties

Door face plate is a **minimum of 0.125 inch thick** fiberglass reinforced plastic molded into one continuous sheet starting with a **25 mil resin-rich gelcoat layer resin integrally molded** with multiple layers of 1.5 oz/sq ft fiberglass mat and one layer of **18 oz per square yard fiberglass woven roving** saturated with special resin. Door plate weight shall not be less than 0.97 lbs per square foot at a ratio of 30/70 glass resin.

Laminated plate by itself evaluated in accordance with Florida Building Code TAS 201 **Large Missile Impact** Test as per ASTM-1996-05b, Standard Specification for Performance of Exterior Windows, Curtain Wall, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes. The missile (a 2 x 4 with a weight of 9 lbs shot from a cannon at a velocity of 50 ft/sec) did not penetrate the door face plate.

- a) ASTM D 632 Tensile Strength Properties of Plastics
- b) ASTM D 790 Flexural Strength Properties of Plastics
- c) ASTM D 2583 Indentation Hardness of Plastics
- d) ASTM D 256 Izod Pendulum Impact Resistance
- e) ASTM D 792 Density/Specific Gravity of Plastics
- f) ASTM D 1761 Mechanical Properties of Fasteners
- 39,000 psi
- 53
- 1530 lb
- g) ASTM E 84 Surface Burning Characteristics of Materials
- h) ASTM G 155 Xenon Light Exposure of Non Metallic Materials
- i) ASTM D 635 Method For Rate of Burning
- j) ASTM D 2843 Smoke Density
- k) ASTM D 1929 Self Ignition Temperature Properties
- l) SFBC PA 201 Impact Procedures for Large Missile Impact

4. Core Properties

- a) ASTM C 177 Thermal Properties of Materials
- b) ASTM D 1622 Density and Specific Gravity
- c) ASTM E 84 Surface Burning Characteristics of Materials
- d) ASTM E90-04 Sound Transmission Loss
- e) ASTM E413-04 Classification for Rating Sound Insulation
- f) ASTM E1332-90 Standard Classification for Determination of Outdoor-Indoor Transmission Class
- g) ASTM E2235-04 Standard Test for Determination of Decay Rates for Use in Sound Insulation Methods

B. Qualifications

- 1. Manufacturer Qualifications: A company specialized in the manufacture of fiberglass reinforced plastic (FRP) doors and frames as specified herein **with a minimum of 30 years documented experience** and with a record of successful in-service performance for the applications as required for this project.
- 2. Installer Qualifications: An experienced installer who has completed fiberglass door and frame installations similar in material, design, and extent to those indicated and whose work has resulted in construction with a record of successful in-service performance.
- 3. Source Limitations: **Obtain fiberglass reinforced plastic doors and resin transfer molded fiberglass frames from one source fabricated from a single manufacturer, including fire rated fiberglass frames. This ensures complete uniformity of physical properties and consistency in the resin chemistry tailored for this application.**
- 4. Source Limitations: Hardware and accessories for all FRP doors as specified in Section 08710 shall be provided and installed by the fiberglass door and frame manufacturer.
- 5. Source Limitations: Glass for windows in doors shall be furnished and installed by door and frame manufacturer in accordance with related section, Division 8, Glazing

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Fiberglass Doors And Frames

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1.4 SUBMITTALS

- A. Product Technical Data Including:
 - 1. Acknowledgment that products submitted meet requirements of standards referenced.
 - 2. Manufacturer shall provide certificate of compliance with current local and federal regulations as it applies to the manufacturing process.
 - 3. Manufacturer's installation instructions.
 - 4. Schedule of doors and frames indicating the specific reference numbers used on the owner's project documents, noting door type, frame type, size, handing and applicable hardware.
 - 5. Details of core and edge construction, including factory construction specifications.
 - 6. Certification of manufacturer's qualifications.

- B. Submittal Drawings for Customer Approval Shall be Submitted Prior to Manufacture and Will Include the Following Information and Formatting:
 - 1. Summary door schedule indicating the specific reference numbers used on owner's drawings, with columns noting door type, frame type, size, handing, accessories and hardware.
 - 2. A drawing depicting front and rear door elevations showing hardware with bill of material for each door.
 - 3. Drawing showing dimensional location of each hardware item and size of each door.
 - 4. Individual part drawing and specifications for each hardware item and FRP part or product.
 - 5. Construction and mounting detail for each frame type

C. Samples

- 1. Provide one complete manufactured door sample which represents all aspects of the typical manufacturing process, including molded in gelcoat color and face plate construction. One edge should expose the interior of the door depicting the unique u-shaped continuous piece stile and rail, hardware reinforcement and core material.

D. Operation and Maintenance Manual

- 1. Include recommended methods and frequency for maintaining optimum condition of fiberglass doors and frames under anticipated traffic and use condition.
- 2. Include one set of final as built drawings with the same requirements as mentioned in Section B above.
- 3. Include certificate of warranty for door and frame listing specific door registration numbers.
- 4. Include hardware data sheets and hardware manufacturer's warranties.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Each door and frame shall be delivered **individually crated** for protection from damage in cardboard containers, clearly marked with project information, door location, specific reference number as shown on drawings, and shipping information. **Each crate shall contain all fasteners necessary for installation as well as complete installation instructions.**
 - 1. Doors shall be stored in the original container on edge, out of inclement weather for protection against the elements.
 - 2. Handle doors pursuant to the manufacturer's recommendations as posted on outside of crate.

1.6 WARRANTY

- A. All fiberglass doors and frames have a lifetime guarantee against failure due to corrosion. Additionally, fiberglass doors and fiberglass frames are guaranteed for ten years against failure due to materials and workmanship, including warp, separation or delamination, and expansion of the core.
- B. On site assistance available.

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Fiberglass Doors And Frames

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PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

Subject to compliance with the Contract Documents, the following manufacturers are acceptable:

- A. Chem-Pruf Door Co., Ltd. P.O. Box 4560 Brownsville, Texas 78523 Phone: 1-800-444-6924-7943, Fax: 956-544-7943. Website: www.chem-pruf.com
- B. Substitutions may be considered provided manufacturer can comply with the specifications as written herein and said products are manufactured in the United States of America. Requests for substitution must be submitted in writing no less than 10 days prior to bid date. Substitution request to include a physical sample and written documentation that product will meet the specific manufacturing methods as highlighted below.

2.2 FRP DOORS

- A. **Doors** shall be made of **fiberglass reinforced plastic (FRP)** using **Class 1 premium resin**. Doors shall be 1 3/4 inch thick and of flush construction, having no seams or cracks. All doors up to 35-3/4" x 95-1/8" shall have equal diagonal measurements. **For consistency in the resin chemistry** tailored for this application and to **maintain the same physical properties** throughout the structure, all fiberglass components including face plates, stiles and rails and frames **must be fabricated by the same manufacturer**. Components obtained through various outside sources for plant assembly will not be accepted.

- B. **Door Plates** shall be 0.125 inch thick minimum, molded in one continuous piece, starting with **25 mil gelcoat of the color specified, integrally molded** with multiple layers of 1.5 ounces per square foot fiberglass mat and one layer of **18 ounce per square yard fiberglass woven roving**. Each layer shall be individually laminated with resin as mentioned above. **Door plate weight shall not be less than 0.97 lbs per square foot at a ratio of 30/70 glass to resin**. Face plates manufactured using the pultrusion process will not be acceptable. Pultruded plates do not allow for a smooth molded gelcoat finish, neither use woven roving for adequate plate thickness, strength and weight, nor the appropriate glass to resin ratio and will not meet the quality standards of this project.

- C. **Stiles and Rails** shall be constructed starting from the outside toward the inside, with a matrix of at least three layers of 1.5 ounce per square foot of fiberglass mat. The stile and rail shall be **molded in one continuous piece to a U-shaped configuration** and to the exact dimensions of the door. In this manner there will be **no miter joints and disparate materials** used to form the one-piece stile and rail.

- D. **Core** material to be:
 - **Polypropylene** plastic honeycomb core with a non woven polyester veil for unparalleled plate bonding, 180 PSI typical compression range.

- E. **Internal Reinforcement** shall be a **dense matrix** of cloth glass fibers and **premium resin** with a minimum hinge screw holding value of 1000 lbs per screw.

- F. **Finish** of door frame shall be **identical with 25 mil resin-rich gelcoat of the specified color integrally molded in at time of manufacture resulting in a smooth gloss surface that is dense and non-porous**. To achieve optimum surface characteristics, the gelcoat shall be cured within a temperature range of 120°F to 170°F creating an **impermeable outer surface, uniform color throughout, and a permanent homogeneous bond** with the resin/thermoset substrate beneath. **Only the highest quality gelcoat will be used to ensure enduring color and physical properties**. Paint and/or post application of gelcoat result in poor mechanical fusion and will be deemed unacceptable for this application. The finish of the door and frame **must be field repairable** without compromising the integrity of the original uniform composite structure, function or physical strength.

- G. **Window** openings shall be provided for at time of manufacture and shall be completely sealed so that the interior of the door is not exposed to the environment. Fiberglass retainers, which hold the glass in place shall be resin transfer molded with a profile that drains away from glazing. The window and window retainer must match in color and finish with 25 mil of resin-rich gelcoat integrally molded at time of manufacture. Mechanical fasteners shall not be used to attach retainers. **Glass, as specified herein, shall be 9/16" thick, laminated impact resistant with a 0.090 PVB interlayer**. Glass shall be furnished and installed by door and frame manufacturer. In order to maintain uniform appearance, product longevity and the corrosion resistance that this application requires, window retainers fabricated from Metal, PVC or Vinyl will not be accepted.

- H. **Louver** openings shall be completely sealed so that the interior of the door is not exposed to the environment. **Louvers are to be solid fiberglass "V" Vane and shall match the color and finish of the door plates.**

- I. **Louver Cover** shall be identical to door skin in finish, construction, materials, thickness and reinforcement and shall be installed as per FBC approved installation instructions provided by the manufacturer.

- J. **Transoms** shall be identical to the doors in finish, construction, materials, thickness and reinforcement and shall be installed as per FBC approved installation instructions provided by the manufacturer.

- K. **Door** shall meet **FBC requirements pursuant to SFBC PA 201/ SFBC PA 202/ SFBC PA 203/ SFBC 3603.2 300 lb tests.**

2.3 FRP FRAMES

- A. **Frames** (rated and non-rated) shall be **fiberglass** and manufactured using the **resin transfer method** creating one solid piece (no voids) with complete uniformity in color and size. Beginning with a minimum **25 mil gelcoat layer** molded in and a minimum of two layers of continuous strand fiberglass mat saturated with resin, the frame will be of one-piece construction with molded stop. All frame profiles shall have a core material of 2 psf polyurethane foam.

- B. **Finish** of frame shall be identical to the door with **25 mil resin-rich gelcoat of the specified color integrally molded in at time of manufacture**. To achieve optimum surface characteristics, the gelcoat shall be cured within a temperature range of 120°F to 170°F creating an **impermeable outer surface, uniform color throughout, and a permanent homogeneous bond** with the resin/thermoset substrate beneath. Only the highest quality gelcoat will be used to ensure enduring color and physical properties. Paint and/or post application of gelcoat result in poor mechanical fusion and will be deemed unacceptable for this application. The finish of the door and frame **must be field repairable** without compromising the integrity of the original uniform composite structure, function or physical strength.

- C. **Jamb/Header** connection shall be mitered for tight fit. Optional seamless one piece frame construction as indicated on the project schedules and related details.

- D. **Internal Reinforcement** shall be continuous within the structure to allow for mounting of specified hardware. Reinforcing material shall be a **dense matrix** of cloth glass fibers and **premium resin** with a minimum hinge screw holding value of 1000 lbs per screw. All reinforcing materials shall be completely encapsulated. Documented strength of frame screw holding value after third insert must be submitted. Dissimilar materials, such as steel, will be deemed unacceptable as reinforcement for hardware attachment.

- E. **Mortises** for hardware shall be accurately machined by CNC to hold dimensions to +/- 0.010 inch in all three axis. Hinge pockets shall be accurately machined by CNC to facilitate heavy duty hinges at all hinge locations, using shims when standard weight hinges are used.

- J. **Frame** shall meet **FBC requirements pursuant to SFBC PA 201/ SFBC PA 202/ SFBC PA 203/ SFBC 3603.2**.

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3.4 ADJUSTING

- A. Adjust doors in accordance with the door manufacturer's maintenance instructions to swing open and shut without binding and to remain in place at any angle without being moved by gravitational influence.
- B. Adjust door hardware to operate correctly in accordance with hardware manufacturer's maintenance instruction.

3.4 CLEANING

- A. Clean surfaces of door opening assemblies and exposed door hardware in accordance with respective manufacturer