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- SCOPE OF WORK**
- **DEMO:** REMOVE EXISTING WINDOWS AND SHUTTERS **ONLY**
 - **WINDOWS:** REPLACE WITH NEW IMPACT RESISTANT WINDOWS PER CH.6 OF THE FLORIDA BUILDING CODE "EXISTING" AND CH.16 F.B.C. "BUILDING"
 - **REPAIR:** REPAIR DAMAGED STUCCO AND PAINT. REPAIR INTERIOR G.W.Bd. AND PRIME ONLY.
 - THERE IS NO ADDITIONAL SQUARE FOOTAGE ADDED.

ZONING DATA: (City of Delray Beach)

Property zoning RM
Medium Density Residential (12-Delray Beach)

LEGAL DESCRIPTION:
28-46-43, N. 500 FT. OF S. 1100 FT. GOV. LTS 1 & LYG E. OF INTRACOASTAL WATERWAY & W. OF SR 5 (LESS BERMUDA HIGH WEST CO.)

STRUCTURAL DATA:

1. Basic Wind Speed	170
3 sec gust	
2. Wind Importance Factor	1.0
3. Risk Category	II
4. Wind Exposure	C
5. Internal Pressure Coefficient	± 0.18
6. Building design	Enclosed
7. Soil Bearing capacity min.	2,500 p.s.f.
8. Structural Loads	

- APPLICABLE CODES:**
1. Florida Building Code 2014 Edition
 2. A.C.I. 318-08 for reinforced concrete.
 3. A.C.I. 315-92 details and detailing of concrete reinforcement or manual of standard. Practice for detailing reinforced concrete structures.
 4. A.C.I. 530-08 and A.C.I. 530.1-08 for reinforced masonry.
 5. A.I.S.C. Steel Construction A.S.D. for Structural Steel, Ninth Edition.
 6. ANS/AWS D1.4.
 7. A.S.C.E. 7-10 for Wind Analysis and Design.
 8. A.S.T.M. Standards and Specifications. American Society for Testing and Materials.
 9. American Forest and Paper Association: National Design Specification for Wood Construction.
 10. APA. The Engineered Wood Association.
 11. National Pest Control Association Standards.

- SITE NOTES:**
1. THERE IS NO ADDITIONAL S.F. ADDED.
 2. THERE IS NO LANDSCAPE.
 3. THERE IS NO IRRIGATION.
 4. THERE IS NO WATER/ SEWER/ PAVING/ DRAINAGE.



LOCATION MAP



Site Location Plan
1/32" = 1'-0" SC

Window Replacement and Repair for:
Bermuda High Condominium
 2150 South Ocean Blvd. · Delray Beach · FL

Building Location Plan
Project Data 1/32" SC

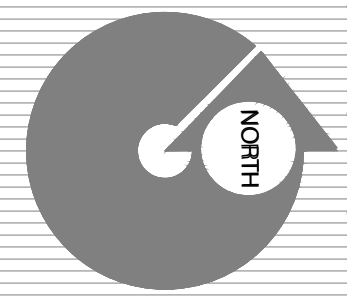
PROGRESS SET/NFC 09/15/2016

ARCHITECTURE
 RICK BRAUTIGAN
 1025 S Dixie Highway
 Delray Beach, FL 33483
 Ph: 561.272.9086
 Fx: 561.272.5636
 AAC002029

Date:
 Mark Duckett,
 P.E., S.I., S.E.S.C.
 consulting Structural Engineer
 3844 N.W. 43rd Terr.
 Coconut Creek, FL.
 FL Registration P.E. #45196
 S.I. #1040

Bermuda High West
 2150 S. Ocean Boulevard
 Delray Beach,
 Florida
 RBA: PN: 11616.04

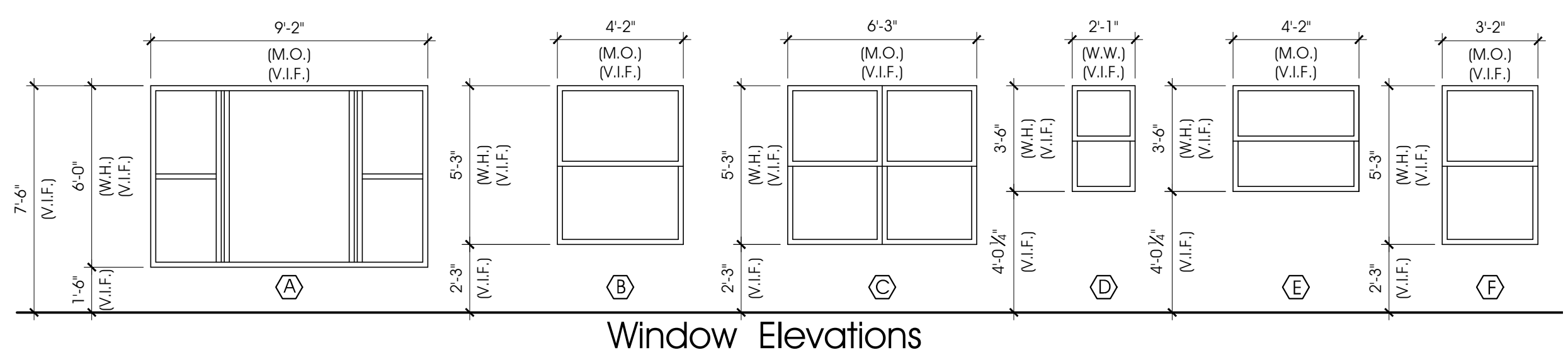
- Issued
- : Permit Set
 - : G.C. Bid Set
 - : Owner Review
 - 9-15-16: Structural Review



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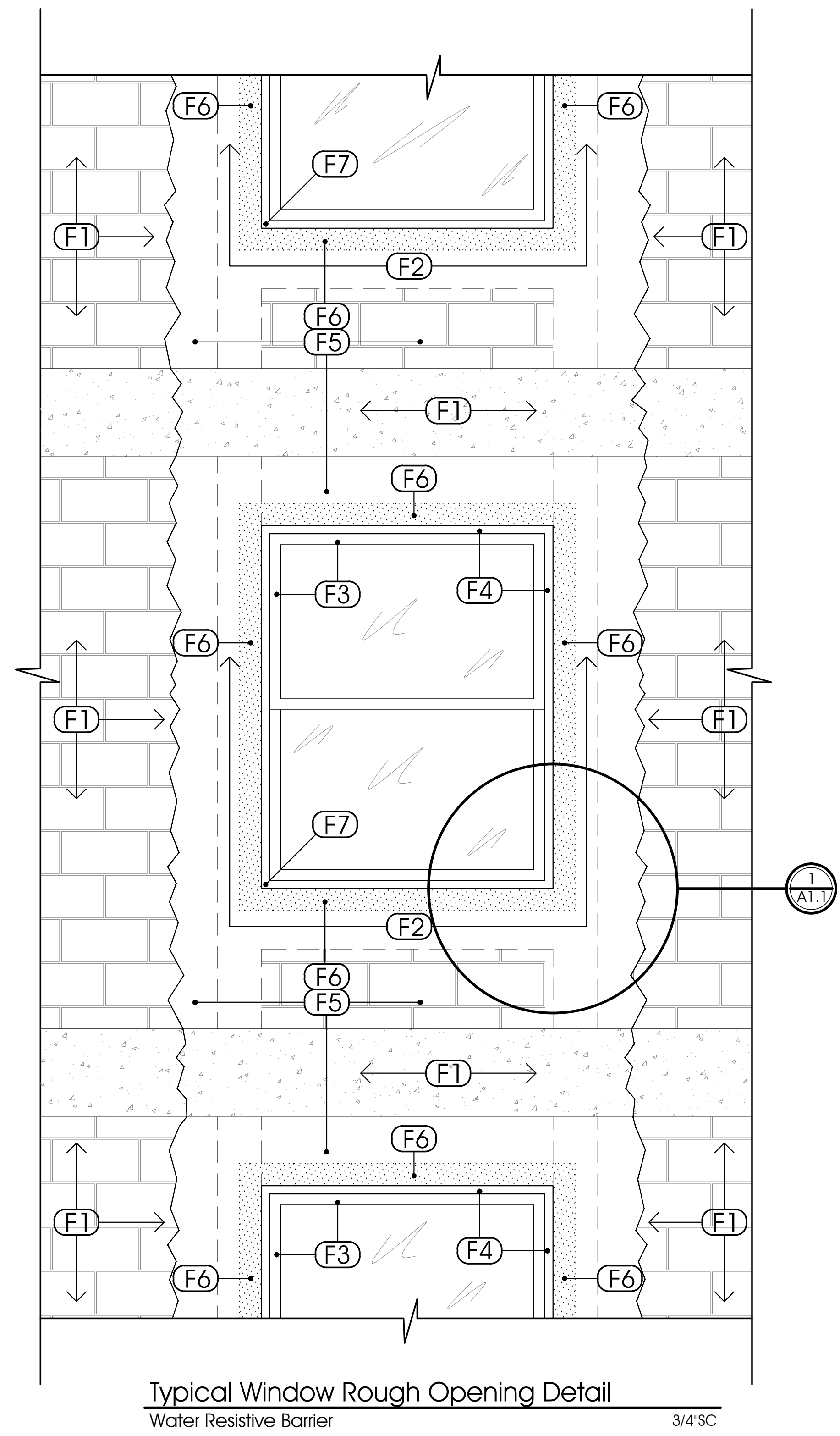
- WINDOW REPLACEMENT SPECIFICATIONS LIST:**
- (F1) Existing CMU Wall/ Concrete Beam/ Floor
 - (F2) Enhanced opening reinforced (See Detail)
 - (F3) Proposed Window Frame
 - (F4) P.T. Wood Buck per: NOA
 - (F5) Prostogo Cat-5 Air & Water Resistive Barrier
 - (F6) Fast Flash Liquid applied Flashing Membrane
 - (F7) Joint & Seam Filler
 - (F8) Stucco to match existing



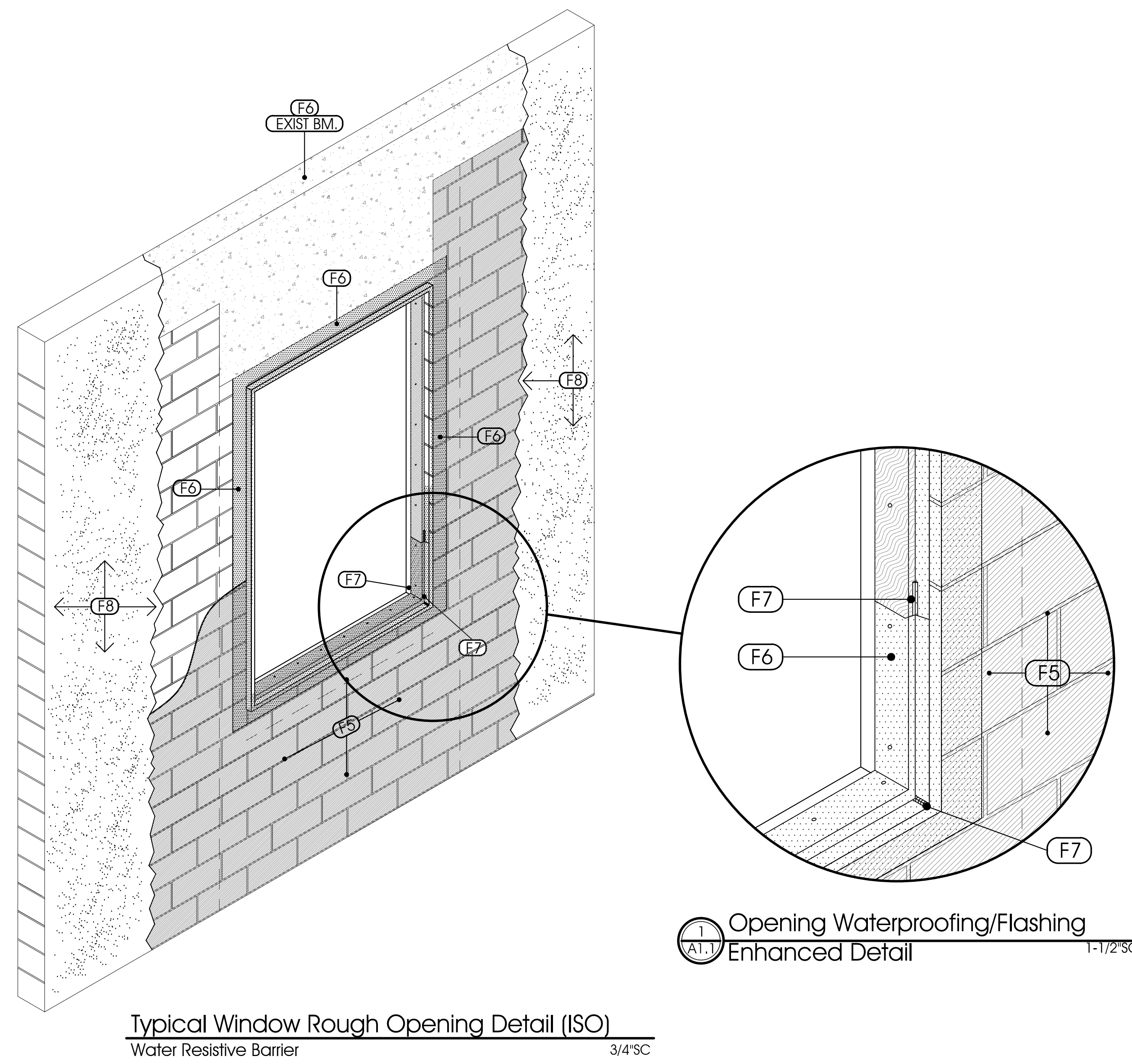
Window Elevations

MARK	SIZE	TYPE	GLASS		FRAME		TOP AFF	NOA req'd
			TINT	IMPACT	COLOR	MATERIAL		
(A)	See Elevations Window Size	Fixed Glass	GREY	YES	WHITE	Aluminum	Match Post-Opening	YES
(B)	"	Single Hung	GREY	YES	WHITE	Aluminum	"	YES
(C)	"	Single Hung	GREY	YES	WHITE	Aluminum	"	YES
(D)	"	Single Hung	GREY	YES	WHITE	Aluminum	"	YES
(E)	"	Single Hung	GREY	YES	WHITE	Aluminum	"	YES
(F)	"	Single Hung	GREY	YES	WHITE	Aluminum	"	YES

NOTE: ALL WINDOWS BASED ON PGT



Typical Window Rough Opening Detail
Water Resistive Barrier 3/4" SC



Typical Window Rough Opening Detail (ISO)
Water Resistive Barrier 3/4" SC

Opening Waterproofing/Flashing Enhanced Detail 1/8" SC

Date:
Mark Duckett,
P.E., S.I., S.E.S.C.
consulting Structural Engineer
3844 N.W. 43rd Terr.
Coconut Creek, FL.
FL Registration P.E. #45196
S.I. #1040

Bermuda High West
2150 S. Ocean Boulevard
Delray Beach, Florida
RBA PN: 11616.04

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- ⊙ : Permit Set
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Specification Notes

PROSOCO R-Guard® Cat 5® Specification for Air and Water-Resistive Barrier

Specifier Note: The information provided below is intended to guide the Architect in developing specifications for products distributed and/or manufactured by PROSOCO, Inc. and should not be viewed as a complete source of information about the product(s). The Architect should always refer to the Product Data Sheet and Material Safety Data Sheet for additional recommendations and for safety information.

Specifier Note: Paragraph below is for PART 1 GENERAL, Quality Assurance.

Mock-Ups:
Apply to field-constructed mock-up assemblies illustrating material interfaces and seals. Use the manufacturer's application instructions. Keep mock-ups available for inspection throughout the project.

Specifier Note: Paragraphs below are for PART 2 PRODUCTS, Manufacturers and Products.

Manufacturer: PROSOCO, Inc., 3741 Greenway Circle, Lawrence, KS 66046. Phone: (800) 255-4255; Fax: (785) 830-9797. E-mail: CustomerCare@proso.com

Product Description
PROSOCO R-Guard® Cat 5 is fluid applied, waterproofing and air and water barrier membrane combining the best of silicone and polyurethane properties. This single component, Silyl-Terminated-Polymer (STP) is roller applied to produce a highly durable, seamless, elastomeric waterproofing membrane on exterior sheathing, CMU back-up walls and pre-cast concrete. R-Guard Cat 5 is proven to prevent water and air penetration of the building envelope in conditions ranging from every day weather to the drenching rains and 155 mph winds of a Category 5 hurricane.

PROSOCO R-Guard® Cat 5 can be applied in unfavorable weather conditions to dry or damp surfaces, eliminating many weather-related construction delays and accelerating the "drying in" of new buildings. The durable, elastomeric membrane adheres to most surfaces, is immediately waterproof and is compatible with most sealants and waterproofing or air barrier components.

TYPICAL TECHNICAL DATA
FORM: viscous liquid, mild odor; light brown color
SPECIFIC GRAVITY: 1.35 to 1.50
pH: Not applicable
WEIGHT/GALLON: 11.6 pounds per gallon
TOTAL SOLIDS: 99 percent
VOC: less than 30 grams per Liter
Complies with all known national, state and district AIM VOC regulations.
FLASH POINT: greater than 200 degrees Fahrenheit (greater than 93 degrees Celsius)
FREEZE POINT: Not applicable
SHELF LIFE: 1 year in tightly sealed, unopened container

Limitations

- Not for use as a liquid flashing membrane. Use R-Guard FastFlash.
- Not for use in place of appropriate through-wall flashing. Use R-Guard SS ThruWall.
- Not for use below grade or in locations which are continuously immersed in water.

Specifier Note: Paragraphs below are for PART 3 EXECUTION, Installation.

Installation
Before applying, read "Preparation" and "Safety Information" sections in the Manufacturer's Product Data Sheet for PROSOCO R-Guard® Cat 5. Refer to the Product Data Sheet for additional information about application.

Use R-Guard Cat 5 in concentrate. Do not dilute or alter. Mix well before use with a low-speed drill and paddle. Avoid mixing air into the membrane.

Application Instructions

- Roller apply R-Guard Cat 5 to external wall assembly using vertical strokes with a slight diagonal slant ensuring coverage that is free of pinholes, voids and gaps. Seal masonry ties and other penetrations as work progresses.
- Allow product to cure and dry.
- Inspect membrane before covering. Repair any deep gouges, punctures, or damaged areas with additional Cat 5, or FastFlash or Joint & Seam Filler.

SPECIFIER NOTE: If air or surface temperatures exceed 95 degrees Fahrenheit (35 degrees Celsius), apply to shaded surfaces and before daytime air and surface temperatures reach their peak.

SPECIFIER NOTE: Some substrates will require additional material to achieve a continuous coating. Inspect surface after application and touch-up as needed. CMU, OSB and exceptionally porous gypsum sheathing may require two coats.

SPECIFIER NOTE: If the surface of the primary air barrier or liquid flashing membrane is damaged during construction, remove all loose surface contaminants before selective re-coating with Cat 5®. Alternatively, fill deep gouges with R-Guard Joint & Seam Filler and/or repair surface damage using R-Guard FastFlash®.

SPECIFIER NOTE: Overlapping repairs, penetration treatments, transitions, rigid flashing and other air barrier components ensures positive drainage and continuity of the air and water-resistive barrier.

Cure and Dry Time
At 70 degrees Fahrenheit (21 degrees Celsius) and 50 percent relative humidity, Cat 5 skins in approximately 2-hours and cures in approximately 12 hours when applied at 12 mil thickness.

Coverage
Coverage rates vary depending on surface porosity, moisture uptake and other factors. In some cases, particularly on CMU, two coats may be required to achieve a pinhole free coating.

- Exterior Gypsum Board, OSB and Plywood: 50-100 square feet per gallon
- CMU: 50-80 square feet per gallon

SPECIFIER NOTE: Actual rates must be determined through mock-up applications.

Cleanup
Clean tools and equipment immediately using mineral spirits or similar solvent.

(F5)

PROSOCO R-GUARD® FastFlash Liquid-Applied Flashing Membrane Specification

Specifier Note: The information provided below is intended to guide the Architect in developing specifications for products distributed and/or manufactured by PROSOCO, Inc. and should not be viewed as a complete source of information about the product(s). The Architect should always refer to the Product Data Sheet and Material Safety Data Sheet for additional recommendations and for safety information.

Specifier Note: Paragraph below is for PART 1 GENERAL, Quality Assurance.

Mock-Ups:
Apply fluid applied air barrier system to field-constructed mock-up assemblies illustrating material interfaces and seals. Use the manufacturer's application instructions. Keep mock-ups available for inspection throughout the project.

Specifier Note: Paragraphs below are for PART 2 PRODUCTS, Manufacturers and Products.

Manufacturer: PROSOCO, Inc., 3741 Greenway Circle, Lawrence, KS 66046. Phone: (800) 255-4255; Fax: (785) 830-9797. E-mail: CustomerCare@proso.com

Product Description
PROSOCO R-GUARD® FastFlash is a waterproofing, adhesive and detailing compound for use as a liquid flashing membrane. R-GUARD FastFlash allows same day installation of windows, doors and other wall assembly, waterproofing or air barrier components. FastFlash produces a highly durable, seamless, elastomeric flashing membrane. Use FastFlash to adhere, transition and counter-flash R-Guard SS ThruWall or other through-wall sheet flashing.

The single-component Silyl-Terminated-Polymer (STP) bonds directly to damp or dry surfaces and cures under a variety of weather conditions. Appropriate for vertical or horizontal, above-grade applications, use R-Guard FastFlash as part of a building-wide R-GUARD Air & Water-Resistive Barrier system or to complement conventional waterproofing or air barrier components.

TYPICAL TECHNICAL DATA
FORM: viscous paste, mild odor, red color
SPECIFIC GRAVITY: 1.40 to 1.55
pH: not applicable
WEIGHT/GALLON: 11.75 to 12.5 pounds per gallon
TOTAL SOLIDS: 99 percent
VOC: 30 grams per Liter, maximum
Complies with all known national, state and district AIM VOC regulations.
FLASH POINT: greater than 200 degrees Fahrenheit (greater than 93 degrees Celsius)
FREEZE POINT: not applicable
SHELF LIFE: 1 year in tightly sealed, unopened container

Limitations

- Not for use as a structural sealant.
- Not for use in place of appropriate through-wall flashing.
- Not for use below grade or in locations designed to be continuously immersed in water.

Specifier Note: Paragraphs below are for PART 3 EXECUTION, Installation.

Installation
Before applying, read "Preparation" and "Safety Information" sections in the Manufacturer's Product Data Sheet for R-Guard FastFlash. Refer to the Product Data Sheet for additional information about application.

Use R-GUARD FastFlash in concentrate. Do not dilute or alter or use for applications other than specified. Roller-grade FastFlash must be mixed before use with a low-speed drill and Jiffy Mixer paddle. Mix roller-grade FastFlash well from top to bottom and side-to-side for a minimum of 3 minutes before use; avoid mixing air into the product. Once opened, roller-grade FastFlash should be used immediately.

SPECIFIER NOTE: Treat joints ranging from one-quarter (1/4) to one-half (1/2) inch with backer rod before application. Alternatively, R-Guard Joint & Seam Filler may be used in place of backer rod.

SPECIFIER NOTE: Joints ranging from one-half (1/2) to one (1) inch require backer rod and R-Guard Joint & Seam Filler.

FastFlash® to all sheathing joints, seams and cracks. On plywood, spot wood knots, deep cracks or surface irregularities.

- Use a DRY joint knife, trowel or spatula to tool and spread the product. Spread one (1) inch beyond seam at each side to a thickness of 12 to 15 mils.
- Allow to skin before installing other waterproofing or air barrier components.

Apply a minimum 3/8 inch bead of gun-grade FastFlash in each corner of the rough opening. Strike with a DRY joint knife or caulking tool.

- Apply additional FastFlash over the exterior framing inside the rough opening. Spread the wet product to create an opaque, monolithic flashing membrane.
- Apply additional FastFlash® to the exterior wall surrounding the rough opening. Spread the product to create an opaque, monolithic flashing membrane at 12 to 15 mils which surrounds the rough opening and extends 4 to 6 inches (100 to 152 millimeters) over the face of the exterior wall.
- Allow treated surfaces to skin before installing windows, doors and other wall assembly, waterproofing or air barrier components.

Application Instructions: Flashing Transitions
After applying R-Guard Spray Wrap MVP, Cat 5, Cat 5 Rain Screen, VB or other waterproofing or air barrier component, use FastFlash to fill any cracks or voids to achieve a seamless, pinhole and void free coating.

Coverage
Coverage varies depending on surface texture and irregularities. Coverage estimates are for applications at 12 to 15 mils

- 22 to 28 square feet per 28-oz tube
- 15 to 17 square feet per 20-oz sausage
- 50 to 100 square feet per 1-gallon

Cleanup
Clean tools and equipment with mineral spirits or similar solvent immediately after use. Remove cured FastFlash mechanically using a sharp-edged tool.

(F6)

PROSOCO R-Guard® Joint & Seam Filler Specification for Fiber-Reinforced Fill Coat and Seam Treatment

Specifier Note: The information provided below is intended to guide the Architect in developing specifications for products distributed and/or manufactured by PROSOCO, Inc. and should not be viewed as a complete source of information about the product(s). The Architect should always refer to the Product Data Sheet and Material Safety Data Sheet for additional recommendations and for safety information.

Specifier Note: Paragraph below is for PART 1 GENERAL, Quality Assurance.

Mock-Ups:
Apply to field-constructed mock-up assemblies illustrating material interfaces and seals. Use the manufacturer's application instructions. Keep mock-ups available for inspection throughout the project.

Specifier Note: Paragraphs below are for PART 2 PRODUCTS, Manufacturers and Products.

Manufacturer: PROSOCO, Inc., 3741 Greenway Circle, Lawrence, KS 66046. Phone: (800) 255-4255; Fax: (785) 830-9797. E-mail: CustomerCare@proso.com

Product Description
PROSOCO R-Guard® Joint & Seam Filler fills openings and creates transitions where flexible reinforcement is required to bridge gaps and provide continuous support of fluid-applied flashing membranes, waterproofing or air barrier components. R-Guard Joint & Seam Filler is a single component, fiber-reinforced Silyl-Terminated-Polymer (STP) gun-grade detailing compound suitable for all climates.

Joint & Seam Filler bonds directly to damp or dry surfaces and eliminates the need for reinforcing tapes at sheathing joints, inside and outside corners. Appropriate for vertical or horizontal above-grade applications to concrete, masonry, natural stone, structural sheathing, architectural metals, painted metals, glass, PVC, FRP, EPDM and most other building materials.

TYPICAL TECHNICAL DATA
FORM: pale red, viscous paste with mild odor
SPECIFIC GRAVITY: 1.4 to 1.5
pH: Not applicable
WT/GAL: 11.8 pounds per gallon
TOTAL SOLIDS: 99 percent
VOC: 30 grams per Liter, maximum
Complies with all known national, state and district AIM VOC regulations.
FLASH POINT: No data
FREEZE POINT: No data
SHELF LIFE: 1 year in unopened, factory-sealed container

Limitations

- Not for use as a structural sealant.
- Not for use as a liquid flashing membrane.
- Not for use in place of appropriate through-wall flashing.
- Not for use below grade or in locations which are continuously immersed in water.

Specifier Note: Paragraphs below are for PART 3 EXECUTION, Installation.

Installation
Before applying, read "Preparation" and "Safety Information" sections in the Manufacturer's Product Data Sheet for R-Guard Joint & Seam Filler. Refer to the Product Data Sheet for additional information about application.

Use R-Guard Joint & Seam Filler in concentrate. Do not dilute or alter. No mixing is required.

Application Instructions: Filling Joints, Seams and Cracks

- Fill or repair cracks larger than one-half (1/2) inch.
- Apply a thick bead of Joint & Seam Filler to all sheathing joints, seams and cracks.
- Using a DRY joint knife, trowel or spatula, tool and spread the product. Spread 1-inch beyond seam at each side to 20 to 30 mil thickness.
- Allow to skin before installing other waterproofing or air barrier components.

Application Instructions: Waterproofing Fastener Penetrations

- Spot fastener penetrations with Joint & Seam Filler.
- On plywood, spot wood knots, deep cracks or surface irregularities.
- Allow to skin before installing other waterproofing or air barrier components.

Application Instructions: Detailing Rough Openings

- Fill or repair cracks larger than one-half (1/2) inch.
- Prime all raw gypsum board edges with R-Guard PorousPrep.
- Apply a thick bead of Joint & Seam Filler to all inside corners, cracks, joints and seams within the rough opening.
- Using a DRY joint knife, trowel or spatula, tool and spread the product. Spread 1-inch beyond seam on each side to 20 to 30 mil thickness.
- Allow to skin before installing R-Guard FastFlash® or other waterproofing components.

Application Instructions: Flashing Transitions

- Fill or repair cracks larger than one-half (1/2) inch.
- Fasten the flashing leg to the vertical wall surface using a bead of Joint & Seam Filler or conventional methods.
- Fill any voids between the flashing leg and the vertical wall with Joint & Seam Filler.
- Apply and tool Joint & Seam Filler as needed to direct water from the vertical wall to the face of the flashing.
- Apply and tool Joint & Seam Filler at inside corners to ensure positive drainage.
- Allow treated surfaces to skin before installing R-Guard FastFlash®.
- Use Joint & Seam Filler to fill any remaining surface imperfections to provide positive drainage and continuous support of fluid-applied flashing membranes, waterproofing or air-barrier components.

Coverage
Coverage varies based on surface texture and irregularities. Spread 1 inch on each side of the sheathing joint at 20 to 30 mils. Joint width varies from 0 to 0.25 inches.

- 60.5 to 63.5 lineal feet per 28 ounce cartridge
- 38.5 to 60.5 lineal feet per 20 ounce sausage

(F7)

Date:
Mark Duckett,
P.E., S.I., S.E.S.C.
consulting Structural Engineer
3844 N.W. 43rd Terr.
Coconut Creek, FL
FL Registration P.E. #45196
S.I. #1040

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[Note: items in brackets [] are options or comments, to be deleted or to replace other text as necessary.]

SECTION 08520

ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. F-701 WinGuard flange aluminum fixed glass [picture, quarter circle, half circle, full circle, oval, ellipse, fan, eyebrow, arch, gothic, triangle, trapezoid, pentagon (doghouse), hexagon, octagon, hotdog, specify other] window.
- B. F-701 WinGuard integral fin aluminum fixed glass [picture, quarter circle, half circle, full circle, oval, ellipse, fan, eyebrow, arch, gothic, triangle, trapezoid, pentagon (doghouse), hexagon, octagon, hotdog, specify other] window.

1.2 RELATED SECTIONS

- A. Section 07190 - Vapor and Air Barriers
- B. Section 07900 - Joint Sealants

1.3 REFERENCES

- A. AAMA - American Architectural Manufacturers Association
 1. AAMA 103.3-93 "Procedural Guide for Aluminum and Vinyl Prime Windows and Glass Doors, Insulating Storm Products for Windows and Glass Doors and Thermal Performance of Windows and Glass Doors"
 2. AAMA 1302.5-76, paragraph 3.1.1 Test A through 3.1.5 Test B "Voluntary Specifications for Forced-Entry Resistant Aluminum Prime Windows"
- B. ANSI - American National Standards Institute
 1. ANSI/AAMA/NWDA 101/LS.2-97 "Voluntary Specification for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"
- C. ASTM - American Society for Testing and Materials
 1. ASTM C 1036-91 "Standard Specification for Flat Glass"
 2. ASTM E 283-96 "Standard Test Method for Rate of Air Leakage Through Exterior

Windows, Curtain Walls, and Doors"

3. ASTM E 330-96 "Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
4. ASTM E 331-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
5. ASTM E 547-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential"

D Florida Building Code

1. Protocol TAS-201 "Impact Test"
2. Protocol TAS-202 "Air, Water, Structural Test"
3. Protocol TAS-203 "Cyclic Wind Load Test"

1.4 SYSTEM DESCRIPTION

- A. Configuration: flange [integral fin] construction fixed glass aluminum [picture, quarter circle, half circle, full circle, oval, ellipse, fan, eyebrow, arch, gothic, triangle, trapezoid, pentagon (doghouse), hexagon, octagon, hotdog, specify other] window.
- B. Frame: 2.784" frame depth.
- C. Glazing: exterior glazed, with aluminum glazing bead, [7/16" laminated] [1 1/16" IG Lami. (3/16" - Space - 7/16" Lami)] glass, factory glazed.
- D. [Muntins: double applied colonial configuration (raised external muntin, interior flatbar) [ogee double applied colonial configuration (ogee external muntin, interior flatbar)] [specify pattern and number of lites]
- E. Performance Requirements
 1. When tested according to Miami-Dade County test protocols, meets the design pressures stated in the Miami-Dade County Notice(s) of Acceptance for this product.
 2. Air Infiltration: 0.3 (ft³)/min/(ft²) maximum when tested per ASTM E 283 at a 1.57 psf static air pressure difference.
 3. Water Resistance: no water leakage when tested per ASTM E 547 at a static air pressure difference of 15% of the positive design pressure.

4. Uniform Load Structural: after testing per ASTM E 330 with a load equal to 150% of the positive design pressure, the unit must be operable, with a maximum permanent deformation in any member of 0.4% of the member's length.

1.5 SUBMITTALS

- A. Submit according to provisions of Section 01300.
- B. Product Data: provide manufacturer's standard details, specifications and catalog information, recommendations, and installation instructions.
- C. Shop Drawings: include unit elevations, details of all aluminum window sections, typical anchorage and installation details, type of glazing and window finish, and interface with other products.
- D. Finish Samples: manufacturer's available colors.
- E. Unit Samples: if required by Architect, provide scaled-down size samples of each unit type, to demonstrate design and construction of the unit and hardware.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: minimum five (5) years documented experience in the manufacture of aluminum windows as required for this project.
- B. Installer Qualifications: workmen properly trained and skilled in the installation and handling of aluminum windows as required for this project.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle windows and accessories in accordance with the manufacturer's instructions.
- B. Protect the products from damage due to the elements, construction traffic, or other hazards, from the time of arrival through the completion of the project.

1.8 WARRANTY

- A. Manufacturer's Warranty: Furnish manufacturer's Limited Lifetime Warranty on aluminum windows and doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. PGT Industries, Inc. Series F-701 WinGuard fixed glass aluminum window.

2.2 MATERIALS

- A. Frame members: extruded from 6063-T5 alloy, nominal 0.062" wall thickness.
- B. Glazing attachment with silicone adhesive.
- C. [Muntins: extruded aluminum 6063-T5 alloy, tube construction (flat bar used for interior surface)]
- D. [Stainless steel assembly screws.]

2.3 ACCESSORIES

- A. [Mullions: 1x2.75 tube mull [1x4 tube mull] [heavy duty wall] [specify mull] and associated mull clips.]

2.4 FABRICATION

- A. Main frame and sash joints constructed with butt joint fit, assembled with phillips pan head screws, and factory sealed with Parbond or Schnee-Moorhead sealer.
- B. All hardware factory installed.

2.5 FINISHES

Colors: Selected by Architect from the following:

1. Standard coating color charts.
2. Custom coating color charts.
3. Color Name and Number:

- A. AAMA 2603 finish: Pretreatment plus thermosetting polyester powder coating.
- B. AAMA 2605 Duranar (or comparable) finish - pretreatment plus 2 coat, 50 and 70 percent Kynar base options.

- C. Clear Anodized Finish: NAAMM AA-C2241, 204R1 - class II - Minimum 0.4 mils, in natural aluminum color.
- D. ETERNA® Wood grain finish: Pretreatment plus base powder coat with preprinted film transfer with organic photosensitive pigments and cellulose resin thermoprint.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that openings provide an acceptable anchoring surface, being clean, level, plumb, and dimensionally within the manufacturer's tolerance of clearance spacing.
- B. Correct unacceptable openings as required prior to installation.

3.2 INSTALLATION

- A. Install windows and accessories in accordance with approved shop drawings and manufacturer's recommendations.
- B. Securely fasten frames, and set units level, plumb, and square with respect to the surrounding structure, without twist or bow.
- C. Place insulation materials around shim spaces as required to ensure continuity of the thermal barrier of the structure.
- D. Apply caulk all around between the aluminum frame and the structure, ensuring that a continuous airtight and watertight perimeter seal results. Leave exposed surfaces clean and free of caulk.

3.3 ADJUSTING AND CLEANING

- A. Leave units thoroughly clean and free of dirt or other construction residue.

END OF SECTION

Date:

Mark Duckett,
P.E., S.I., S.E.S.C.
consulting Structural Engineer
3844 N.W. 43rd Terr.
Coconut Creek, FL
FL Registration P.E. #45196
S.I. #1040

Bermuda High West

2150 S. Ocean Boulevard
Delray Beach,
Florida

RBA: PN: 11616.04

Issued

⊙ :Permit Set
⊙ :G.C. Bid Set
⊙ :Owner Review
● 9-15-16:Structural Review

[Note: items in brackets [] are options or comments, to be deleted or to replace other text as necessary.]

SECTION 08520
ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. SH-700 WinGuard aluminum single hung window.

1.2 RELATED SECTIONS

- A. Section 07190 - Vapor and Air Barriers
B. Section 07900 - Joint Sealants

1.3 REFERENCES

- A. AAMA - American Architectural Manufacturers Association
1. AAMA 103.3-93 "Procedural Guide for Aluminum and Vinyl Prime Windows and Glass Doors, Insulating Storm Products for Windows and Glass Doors and Thermal Performance of Windows and Glass Doors"
 2. AAMA 1302.5-76, paragraph 3.1.1 Test A through 3.1.3 Test G "Voluntary Specifications for Forced-Entry Resistant Aluminum Prime Windows"
- B. ANSI - American National Standards Institute
1. ANSI/AAMA/NWDA 101/LS.2-97 "Voluntary Specification for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"
- C. ASTM - American Society for Testing and Materials
1. ASTM C 1036-91 "Standard Specification for Flat Glass"
 2. ASTM E 283-96 "Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors"
 3. ASTM E 330-96 "Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
 4. ASTM E 331-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"

5. ASTM E 547-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential"
 6. ASTM F 588-85 "Standard Test Methods for Resistance of Window Assemblies to Forced Entry Excluding Glazing"
- D. Florida Building Code
1. Protocol TAS-201 "Impact Test"
 2. Protocol TAS -202 "Air, Water, Structural Test"
 3. Protocol TAS -203 "Cyclic Wind Load Test"

1.4 SYSTEM DESCRIPTION

- A. Configuration: flange construction [integral fin construction] single hung (single vent) [proview] [radius top (only available as a flange, proview style)].
B. Frame: 2.784" frame depth.
- C. Glazing: exterior glazed, with aluminum glazing bead, [5/16" laminated (1/8"-.090"-1/8")] [13/16" IG-Lami (1/8" - space - 5/16" laminated) (3/16" - space - 5/16" laminated)] [7/16" laminated (3/16"-.090-3/16") [13/16" IG-Lami (1/8" [3/16" - space - 7/16" laminated)] glass, factory glazed.
- D. [Muntins: double applied colonial configuration (raised external muntin, interior flatbar) [ogee double applied colonial configuration (ogee external muntin, interior flatbar)] [custom: specify pattern and number of lites]
- E. Performance Requirements
1. When tested according to Miami-Dade County test protocols, meets the design pressures stated in the Miami-Dade County Notice(s) of Acceptance for this product.
 2. Air Infiltration: 0.3 (ft³/min/(ft²) maximum when tested per ASTM E 283 at a 1.57 psf static air pressure difference.
 3. Water Resistance: no water leakage when tested per ASTM E 547 at a static air pressure difference of 15% of the positive design pressure.
 4. Uniform Load Structural: after testing per ASTM E 330 with a load equal to 150% of the positive design pressure, the unit must be operable, with a maximum permanent deformation in any member of 0.4% of the member's length.

1.5 SUBMITTALS

- A. Submit according to provisions of Section 01300.

- B. Product Data: provide manufacturer's standard details, specifications and catalog information, recommendations, and installation instructions.
- C. Shop Drawings: include unit elevations, details of all aluminum window sections, typical anchorage and installation details, type of glazing and window finish, and interface with other products.
- D. Finish Samples: manufacturer's available colors.
- E. Unit Samples: if required by Architect, provide scaled-down size operating samples of each unit type, to demonstrate design and construction of the unit and hardware.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: minimum five (5) years documented experience in the manufacture of aluminum windows as required for this project.
- B. Installer Qualifications: workmen properly trained and skilled in the installation and handling of aluminum windows as required for this project.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle windows and accessories in accordance with the manufacturer's instructions.
- B. Protect the products from damage due to the elements, construction traffic, or other hazards, from the time of arrival through the completion of the project.

1.8 WARRANTY

- A. Manufacturer's Warranty: Furnish manufacturer's Limited Lifetime Warranty on aluminum windows and doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. PGT Industries, Inc. Series SH-701 WinGuard single hung aluminum window.

2.2 MATERIALS

- A. Main frame members: extruded from 6063-T6 alloy, nominal 0.062" wall thickness.
B. Sash members: extruded from 6063-T5 aluminum alloy, nominal 0.062" wall thickness.

- C. Hardware: two spiral torsion spring balances. Two steel and tin-lead-zinc alloy cam lever sash locks on each vent locking beneath a groove in the fixed meeting rail (one sash lock if window width is less than 44"). [Stainless steel assembly screws.]
- D. Weatherstripping: sides and top of vent weatherstripped with .170 x .270 fin seal, bottom of vent weatherstripped with compressed finned vinyl bulb.
- E. Glazing attachment with silicone adhesive.
- F. Screens: tubular aluminum frame with fiberglass screen cloth, vinyl spline, two plastic screen pull tabs and two compression retention springs per screen.
- G. [Muntins: extruded aluminum 6063-T5 alloy, tube construction (flat bar used for interior surface)]

2.3 ACCESSORIES

- A. [Mullions: 1x2.75 tube mull [1x4 tube mull] [heavy duty wall] [specify mull] and associated mull clips.]

2.4 FABRICATION

- A. Main frame and sash joints constructed with butt joint fit, assembled with phillips pan head screws, and factory sealed with Parbond or Schnee Moorehead sealer.
- B. All hardware factory installed.
- C. Bug screens constructed and installed in unit prior to shipment.

2.5 FINISHES

- A. Colors: Selected by Architect from the following:
1. Standard coating color charts.
 2. Custom coating color charts.
 3. Color Name and Number:
- A. AAMA 2603 finish: Pretreatment plus thermosetting polyester powder coating.
- B. AAMA 2605 Duranar (or comparable) finish - pretreatment plus 2 coat, 50 and 70 percent Kynar base options.
- C. Clear Anodized Finish: NAAMM AA-C2241, 204R1 - class II - Minimum 0.4 mils, in natural aluminum color.
- D. ETERNA® Wood grain finish: Pretreatment plus base powder coat with preprinted film transfer with organic photosensitive pigments and cellulose resin thermoprint.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that openings provide an acceptable anchoring surface, being clean, level, plumb, and dimensionally within the manufacturer's tolerance of clearance spacing.
- B. Correct unacceptable openings as required prior to installation.

3.2 INSTALLATION

- A. Install windows and accessories in accordance with approved shop drawings and manufacturer's recommendations.
- B. Securely fasten frames, and set units level, plumb, and square with respect to the surrounding structure, without twist or bow.
- C. Place insulation materials around shim spaces as required to ensure continuity of the thermal barrier of the structure.
- D. Apply caulk all around between the aluminum frame and the structure, ensuring that a continuous airtight and watertight perimeter seal results. Leave exposed surfaces clean and free of caulk.

3.3 ADJUSTING AND CLEANING

- A. Ensure that units freely operate in a normal fashion, and that vents make proper contact with weatherstripping perimeter seal. Adjust frame, vent, or hardware as needed.
- B. Leave units thoroughly clean and free of dirt or other construction residue.

END OF SECTION

Date:

Mark Duckett,
P.E., S.I., S.E.S.C.
consulting Structural Engineer
3844 N.W. 43rd Terr.
Coconut Creek, FL
FL Registration P.E. #45196
S.I. #1040

Bermuda High West

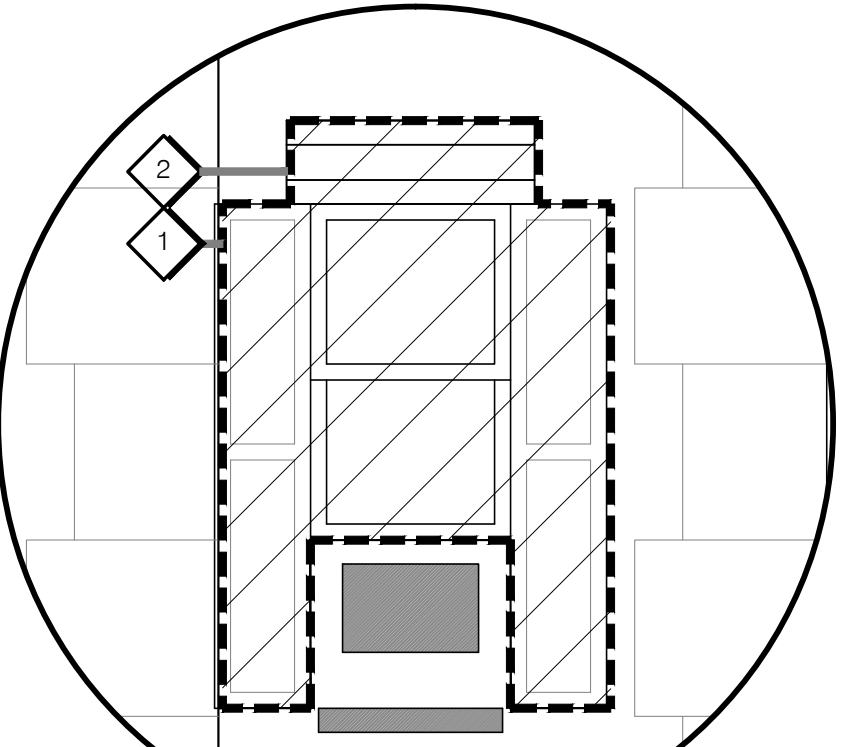
2150 S. Ocean Boulevard
Delray Beach,
Florida

RBA: PN: 11616.04

Issued

⊙ :Permit Set
⊙ :G.C. Bid Set
⊙ :Owner Review
● 9-15-16:Structural Review

Date:
 Mark Duckett,
 P.E., S.I., S.E.S.C.
 Consulting Structural Engineer
 3844 N.W. 43rd Terr.
 Coconut Creek, FL
 FL Registration P.E. #45196
 S.I. #1040



NOTE: G.C. TO REPAIR ANY DAMAGED STUCCO BANDS

1 Exist. Window A2 (Enhanced) 1/2 SC



NOTE: EXISTING BALCONIES/ RAILINGS / SGD ETC. TO REMAIN UNALTERED (TYP.)

Rear Elevation
1/8" SC



Front Elevation
1/8" SC

GENERAL DEMOLITION NOTES:

- Contractor to notify architect of any discrepancies between plans and construction drawings prior to demo.
- All waste material and debris shall be removed from the site by the contractor. material shall not be allowed to accumulate or become a safety/fire hazard. Open burning will not be permitted. All the salvaged materials will become the contractors property unless otherwise noted.
- The owner reserves the right to inspect the material scheduled for removal and salvage any items they deem usable as spare parts.
- Dust control: Use all means necessary to control air pollution and other environmental contamination as required to prevent dust or debris being a nuisance to the public, neighbors, and concurrent performance of other work in the building.
- Protection: install and maintain barricades, and pedestrian cautions in accordance with local safety regulations and ordinances. Cutting and patching: it is intended that the general contractor shall perform all cutting and patching for general construction trades, mechanical and electrical. Patching shall mean the restoration of a surface or item to its original condition to match the existing unless otherwise indicated, noted, detailed or specified. cutting and patching shall be done by the proper trades and crafts necessary for the materials involved.

DEMOLITION Specific Notes:

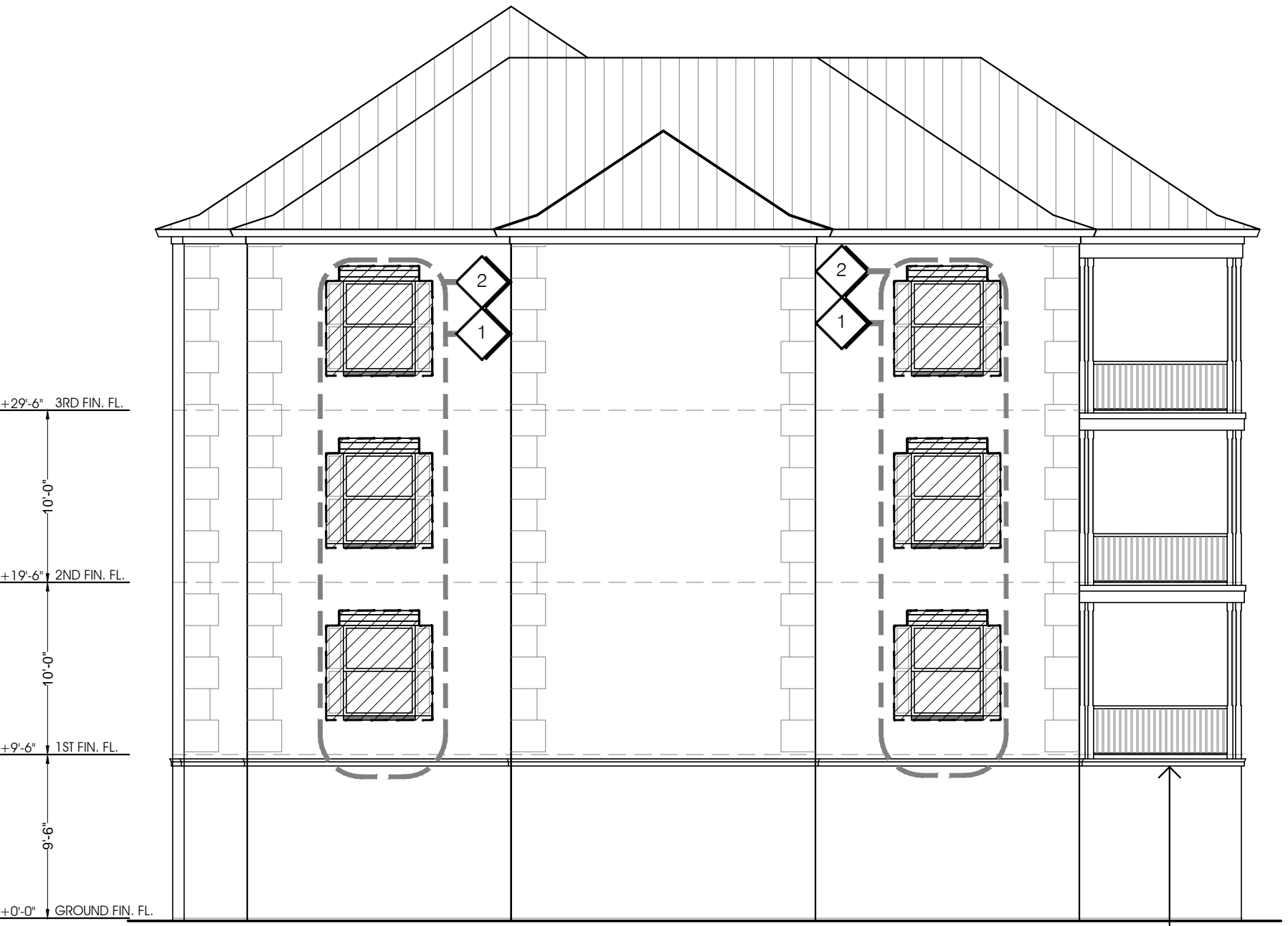
- Remove Existing window/s/ shutter's as req'd for new window replacements
- Remove Existing Roladen Rollup Shutter's

Bermuda High West
 2150 S. Ocean Boulevard
 Delray Beach, Florida
 RBA: PN: 11616.04

Issued

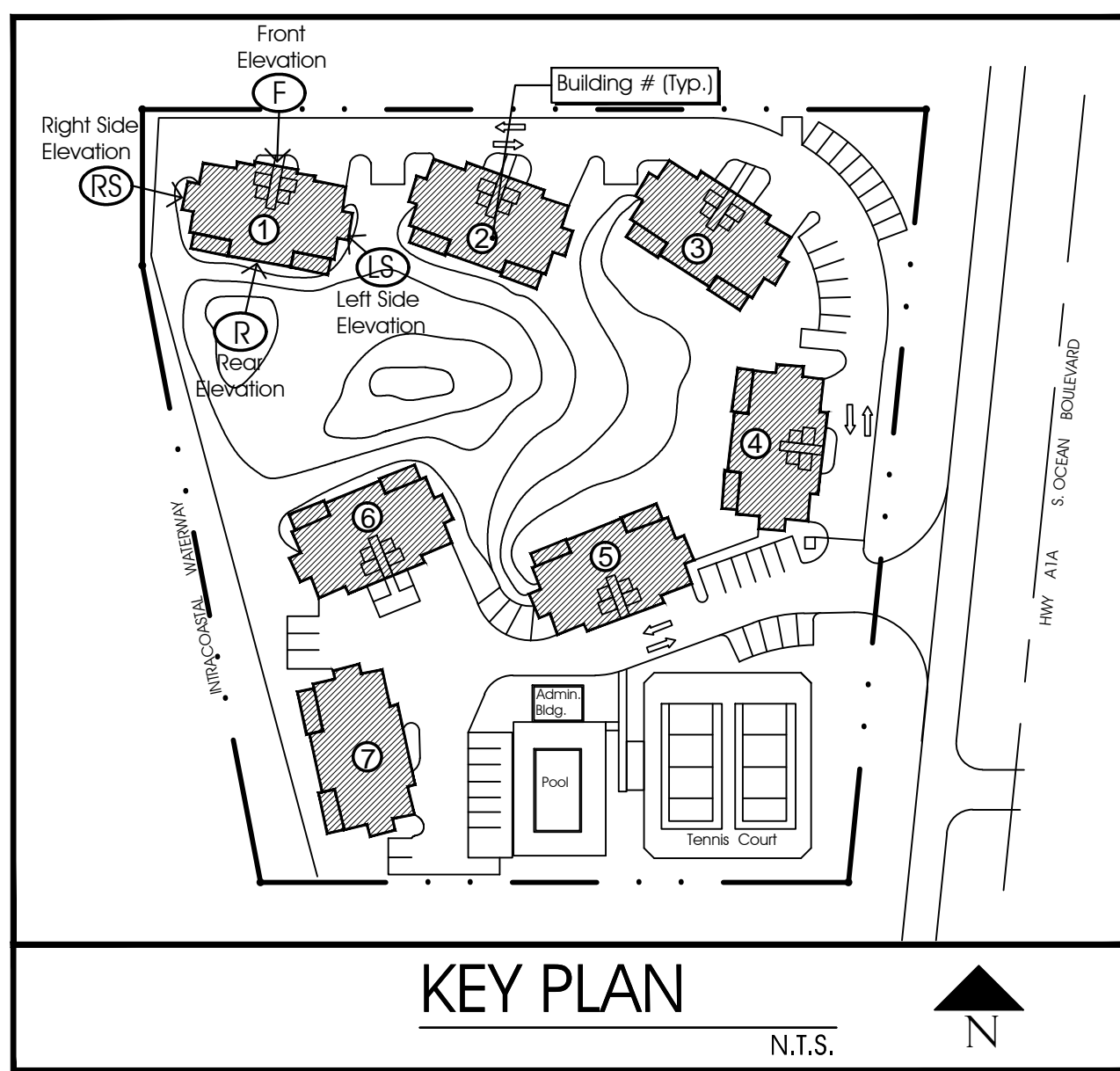
- Permit Set
- G.C. Bid Set
- Owner Review
- 9-15-16: Structural Review

BUILDING # 1,2,3,4,5,6 Demo



Elevation Right Side
1/8" SC

NOTE: EXISTING BALCONIES/ RAILINGS / SGD ETC. TO REMAIN UNALTERED (TYP.)



KEY PLAN
N.T.S.



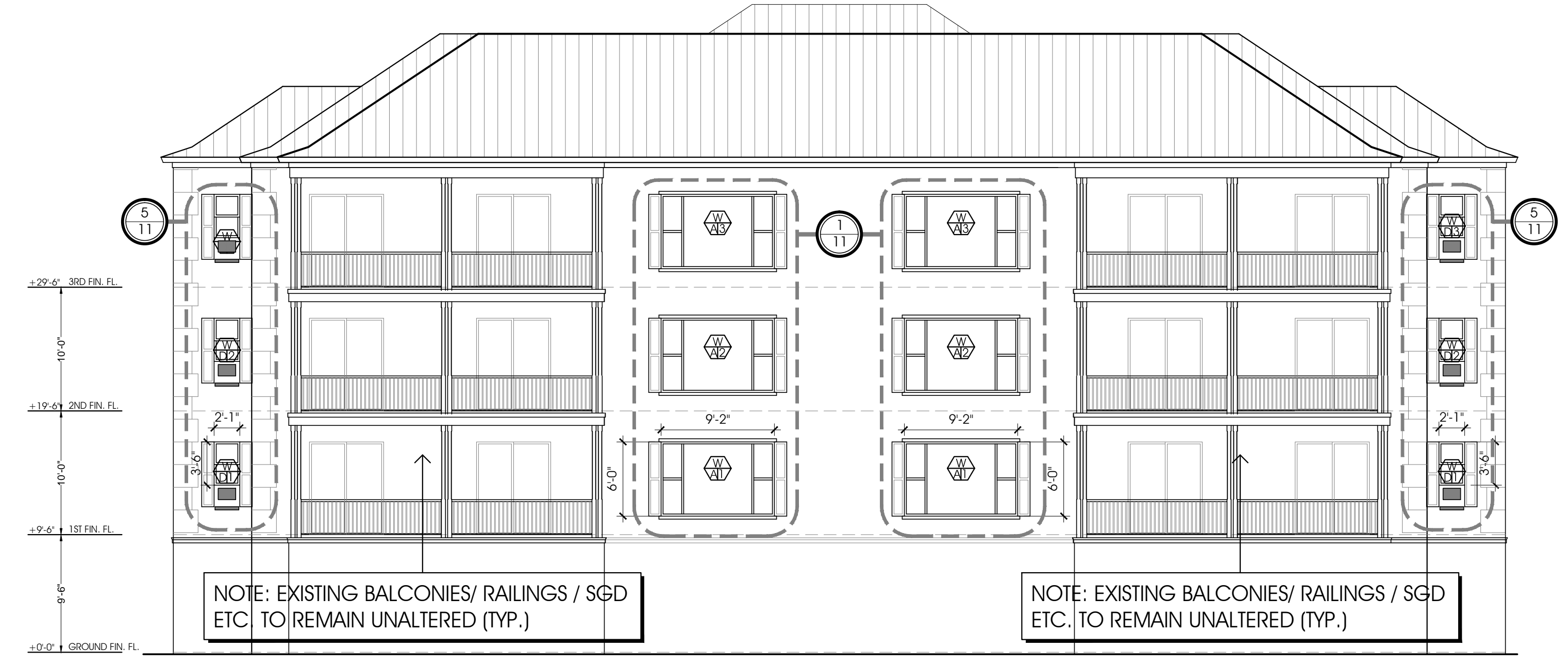
Elevation Left Side
1/8" SC

NOTE: EXISTING BALCONIES/ RAILINGS / SGD ETC. TO REMAIN UNALTERED (TYP.)

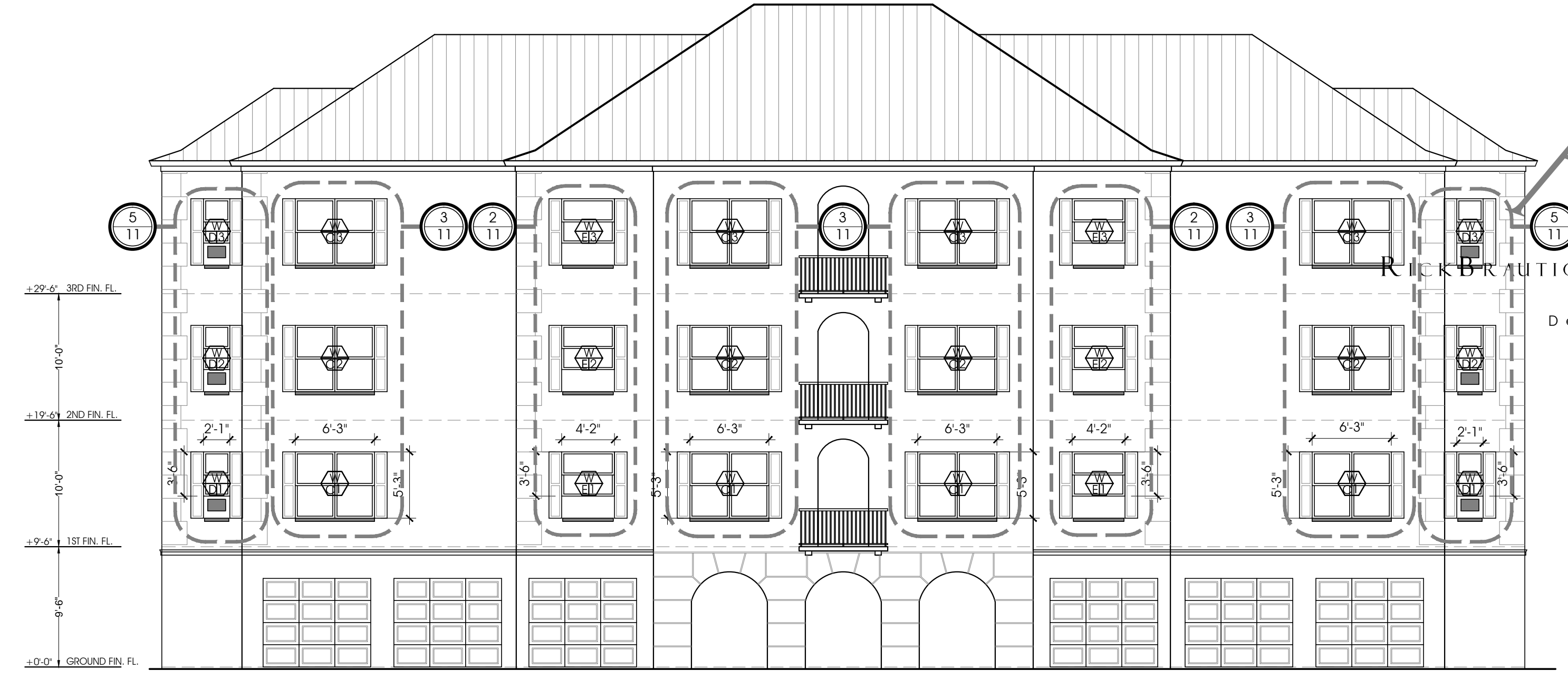
Existing Elevations Bldg. 1
 4-Story Demo. Plan
 1/8" SC

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Date:
 Mark Duckett,
 P.E., S.I., S.E.S.C.
 Consulting Structural Engineer
 3844 N.W. 43rd Terr.
 Coconut Creek, FL
 FL Registration P.E. #45196
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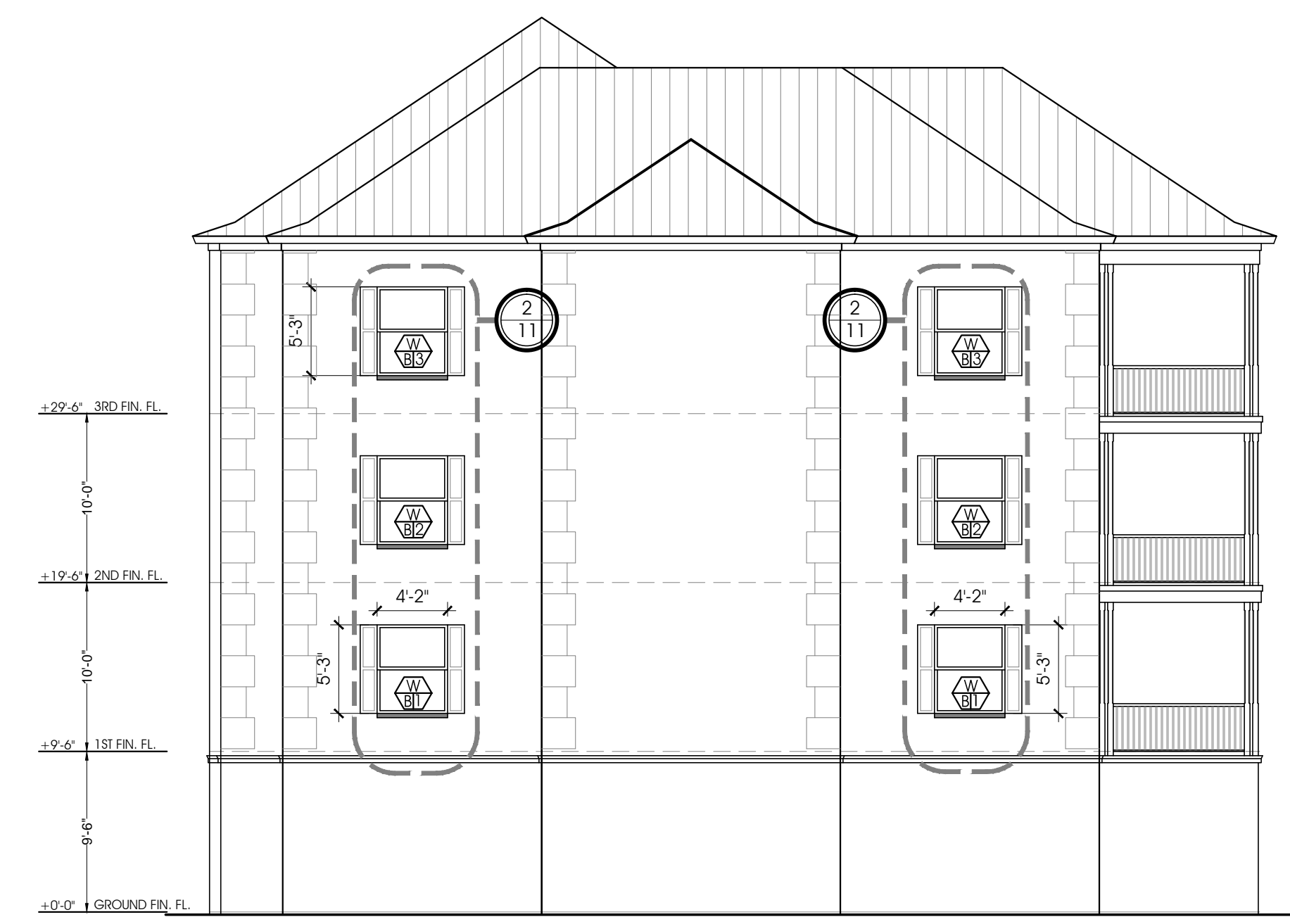
Rear Elevation
 1/8" SC



Front Elevation
 1/8" SC

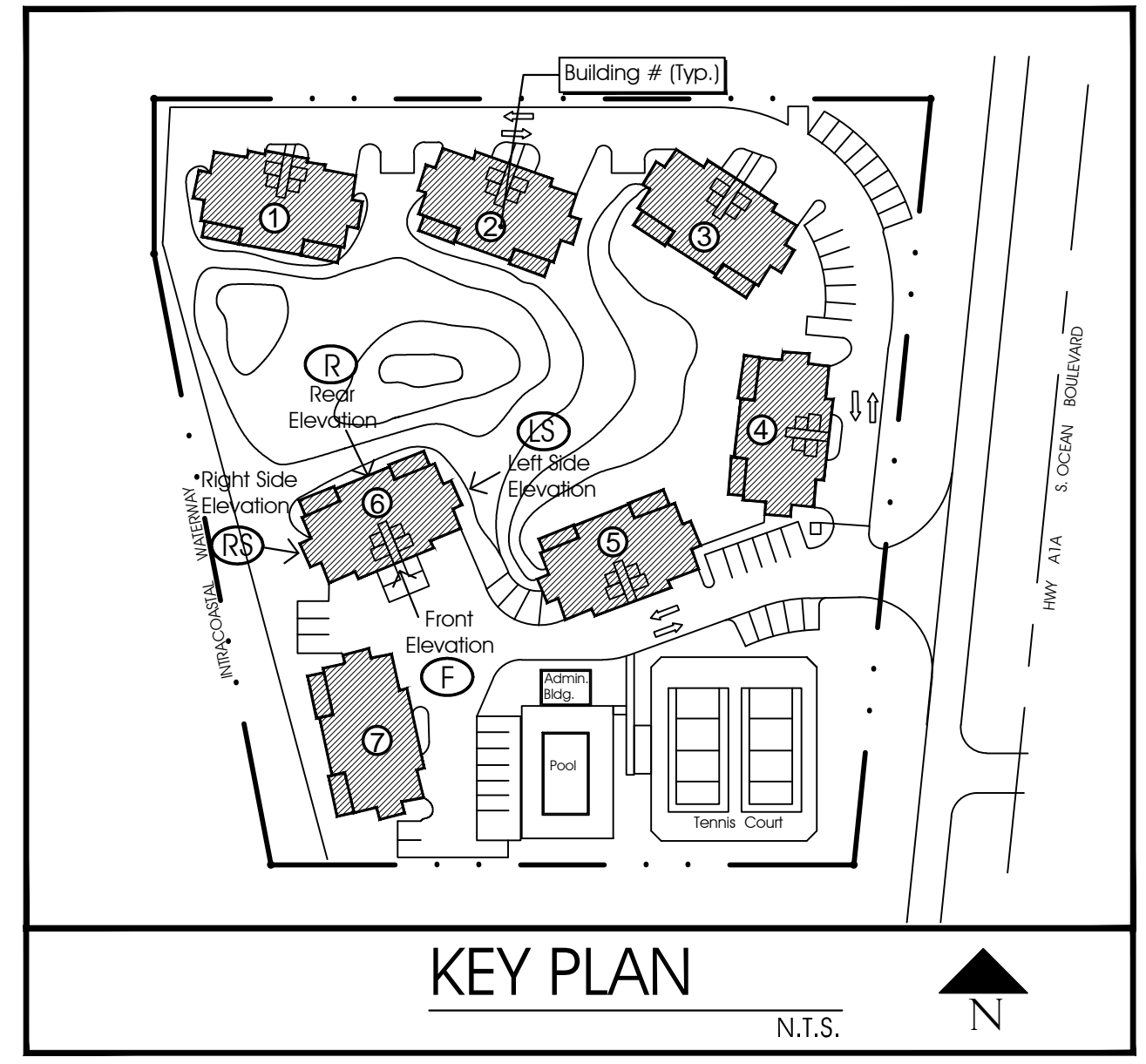
W 03 + 47.2 P.S.F. - 63.2 P.S.F.	W 03 + 42.0 P.S.F. - 46.0 P.S.F.	W 03 + 42.0 P.S.F. - 46.0 P.S.F.	W 03 + 47.2 P.S.F. - 63.2 P.S.F.
W 02 + 47.2 P.S.F. - 63.2 P.S.F.	W 02 + 42.0 P.S.F. - 46.0 P.S.F.	W 02 + 42.0 P.S.F. - 46.0 P.S.F.	W 02 + 47.2 P.S.F. - 63.2 P.S.F.
W 01 + 47.2 P.S.F. - 63.2 P.S.F.	W 01 + 42.0 P.S.F. - 46.0 P.S.F.	W 01 + 42.0 P.S.F. - 46.0 P.S.F.	W 01 + 47.2 P.S.F. - 63.2 P.S.F.

W 03 + 47.2 P.S.F. - 63.2 P.S.F.	W 03 + 43.6 P.S.F. - 47.6 P.S.F.	W 03 + 46.0 P.S.F. - 60.8 P.S.F.	W 03 + 43.6 P.S.F. - 51.8 P.S.F.	W 03 + 43.6 P.S.F. - 51.8 P.S.F.	W 03 + 46.0 P.S.F. - 60.8 P.S.F.	W 03 + 43.6 P.S.F. - 47.6 P.S.F.	W 03 + 47.2 P.S.F. - 63.2 P.S.F.
W 02 + 47.2 P.S.F. - 63.2 P.S.F.	W 02 + 43.6 P.S.F. - 47.6 P.S.F.	W 02 + 46.0 P.S.F. - 60.8 P.S.F.	W 02 + 43.6 P.S.F. - 51.8 P.S.F.	W 02 + 43.6 P.S.F. - 51.8 P.S.F.	W 02 + 46.0 P.S.F. - 60.8 P.S.F.	W 02 + 43.6 P.S.F. - 47.6 P.S.F.	W 02 + 47.2 P.S.F. - 63.2 P.S.F.
W 01 + 47.2 P.S.F. - 63.2 P.S.F.	W 01 + 43.6 P.S.F. - 47.6 P.S.F.	W 01 + 46.0 P.S.F. - 60.8 P.S.F.	W 01 + 43.6 P.S.F. - 51.8 P.S.F.	W 01 + 43.6 P.S.F. - 51.8 P.S.F.	W 01 + 46.0 P.S.F. - 60.8 P.S.F.	W 01 + 43.6 P.S.F. - 47.6 P.S.F.	W 01 + 47.2 P.S.F. - 63.2 P.S.F.



Elevation Right Side
 1/8" SC

W B3 + 44.8 P.S.F. - 48.8 P.S.F.	W B3 + 44.8 P.S.F. - 48.8 P.S.F.
W B2 + 44.8 P.S.F. - 48.8 P.S.F.	W B2 + 44.8 P.S.F. - 48.8 P.S.F.
W B1 + 44.8 P.S.F. - 48.8 P.S.F.	W B1 + 44.8 P.S.F. - 48.8 P.S.F.

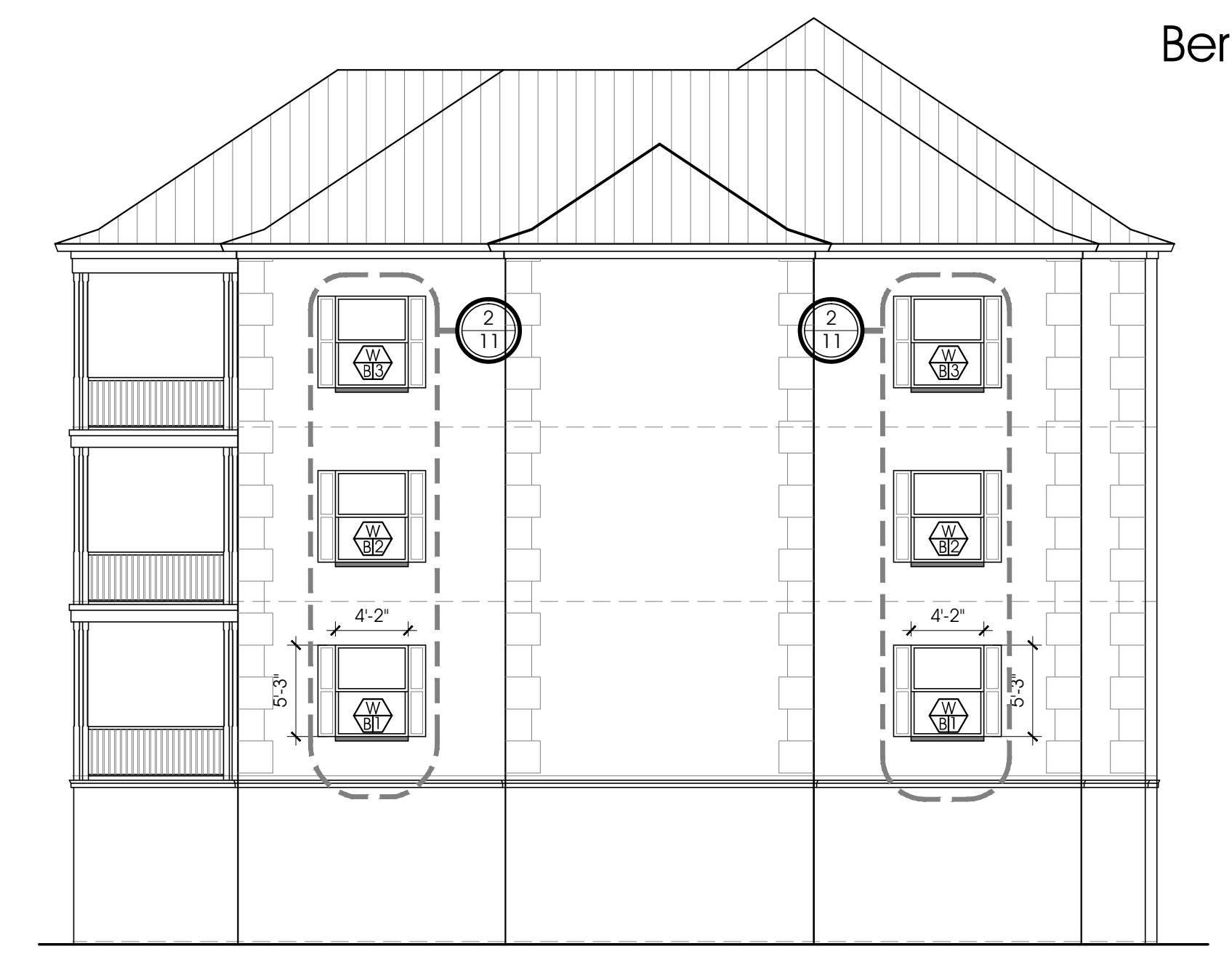


Finish Notes:

- NEW PGT WINDOWS INSTALLED PER NOA
- NEW 3/8" STUCCO FINISH TO MATCH EXISTING BONDING AGENT
- ALUMINUM COLONIAL SHUTTER BY WILLARD SHUTTER CO. MIAMI, FL. INSTALL PER APPROVED NOA (MATCH EXISTING SHUTTER SPECS.)

Aluminum Colonial Shutters

ALUMINUM COLONIAL SHUTTER
 BY: WILLARD SHUTTER CO. MIAMI, FL.
 INSTALL PER APPROVED NOA
 (MATCH EXISTING SHUTTER SPECS.)
 4420 NW 35 COURT, MIAMI, FL. 33142

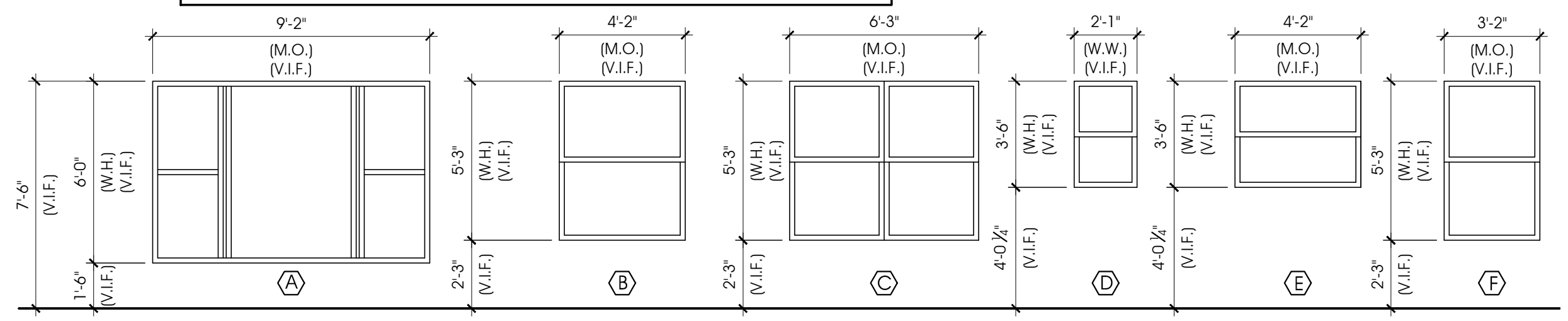
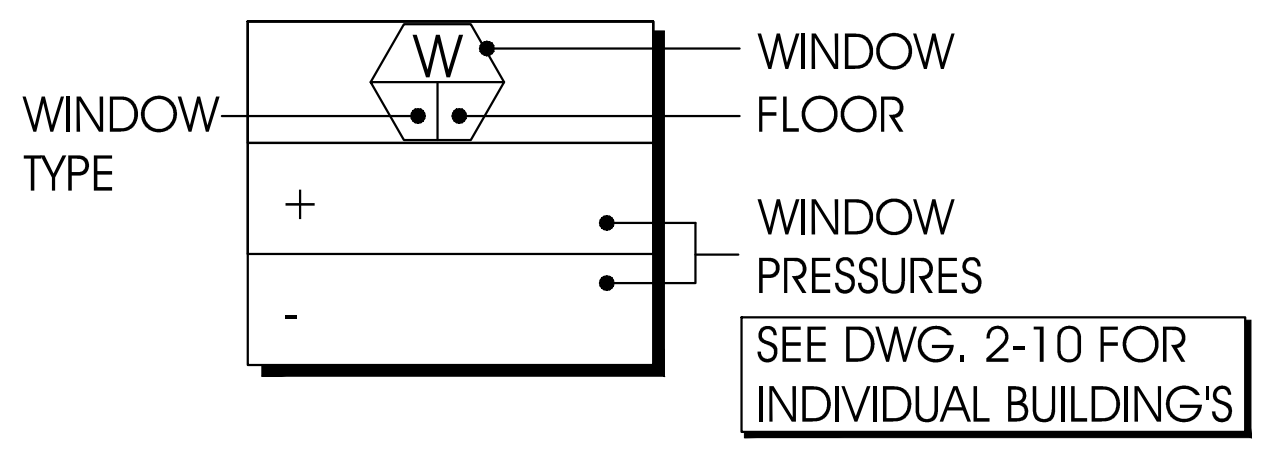


Elevation Left Side
 1/8" SC

W B3 + 44.8 P.S.F. - 48.8 P.S.F.	W B3 + 44.8 P.S.F. - 48.8 P.S.F.
W B2 + 44.8 P.S.F. - 48.8 P.S.F.	W B2 + 44.8 P.S.F. - 48.8 P.S.F.
W B1 + 44.8 P.S.F. - 48.8 P.S.F.	W B1 + 44.8 P.S.F. - 48.8 P.S.F.

MARK	SIZE	TYPE	GLASS	FRAME	TOP AFF	NOA req'd
A	9'-2"	Fixed Glass	GREY YES	WHITE Aluminum	Match Exst. Opening	YES
B	4'-2"	Single Hung	GREY YES	WHITE Aluminum	*	YES
C	6'-3"	Single Hung	GREY YES	WHITE Aluminum	*	YES
D	2'-1"	Single Hung	GREY YES	WHITE Aluminum	*	YES
E	4'-2"	Single Hung	GREY YES	WHITE Aluminum	*	YES
F	3'-2"	Single Hung	GREY YES	WHITE Aluminum	*	YES

NOTE: ALL WINDOWS BASED ON PGT



Window Elevations

Bermuda High West
 2150 S. Ocean Boulevard
 Delray Beach, Florida
 RBA: PN: 11616.04

Issued

- Permit Set
- G.C. Bid Set
- Owner Review
- 9-15-16: Structural Review

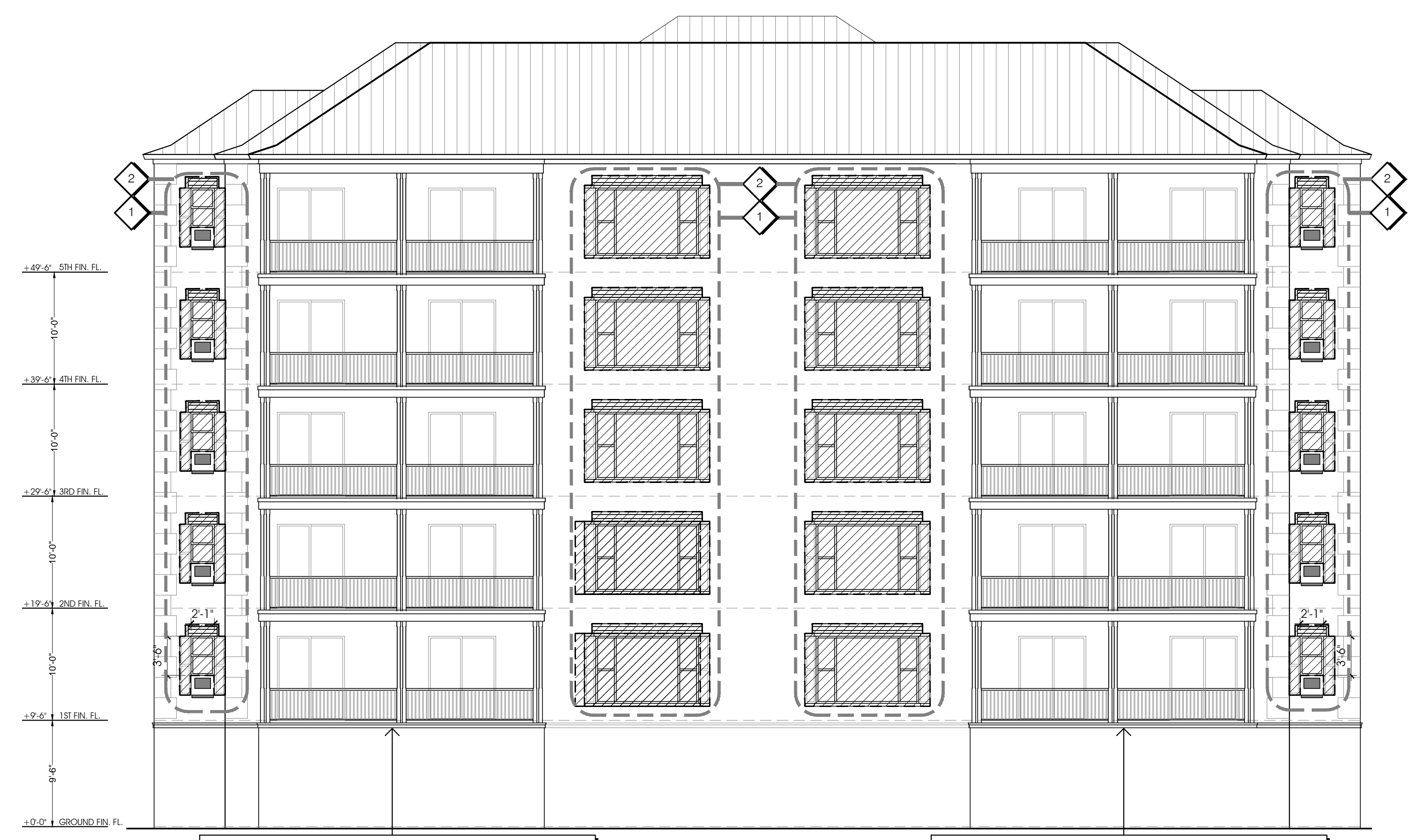
BUILDING #6

Proposed Elevations Bldg.6
 4-Story
 1/8" SC

PROGRESS SET/NFC 09/15/2016

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Date:
 Mark Duckett,
 P.E., S.I., S.E.S.C.
 Consulting Structural Engineer
 3844 N.W. 43rd Terr.
 Coconut Creek, FL
 FL Registration P.E. #45196
 S.I. #1040



Rear Elevation
 1/8" SC



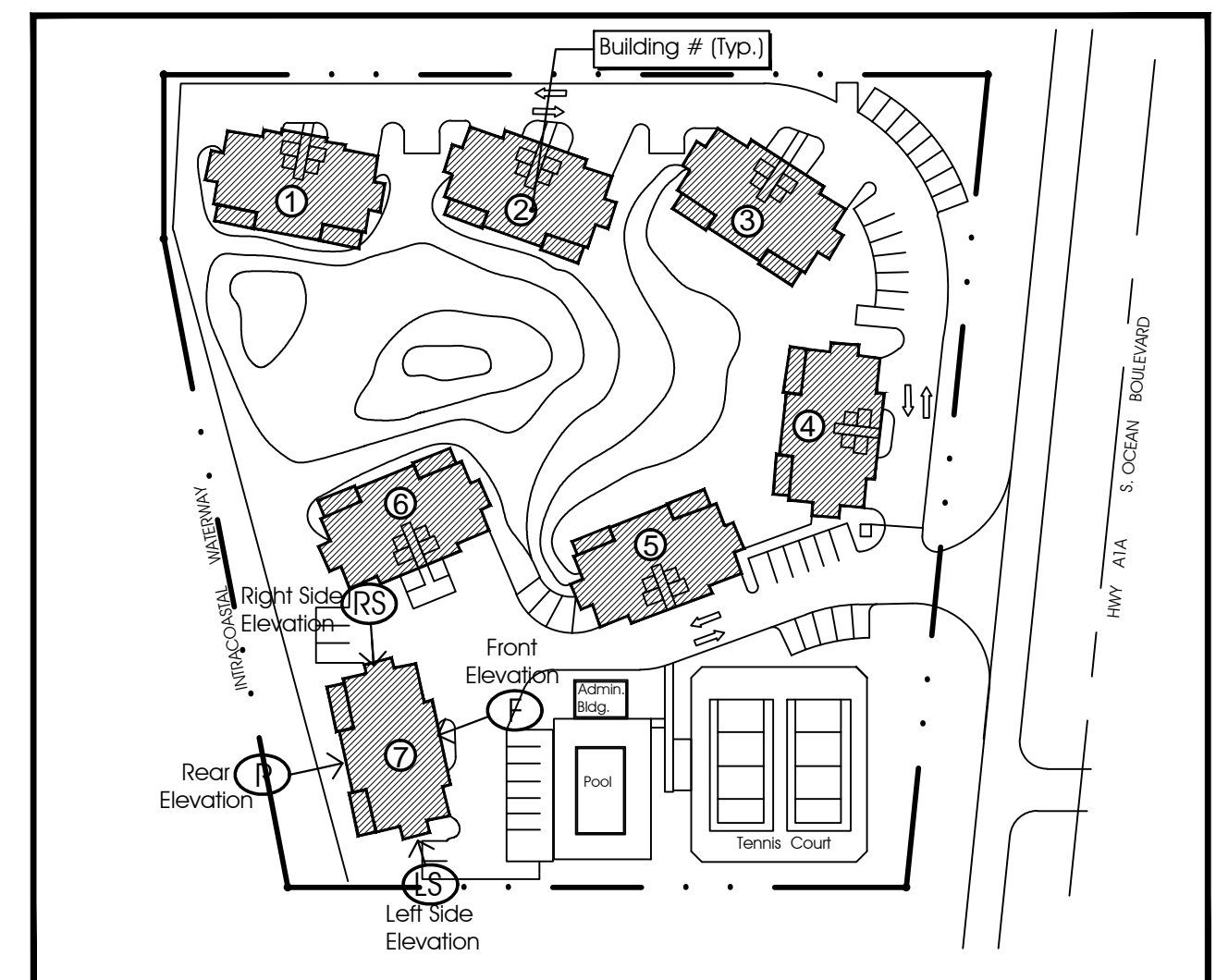
Front Elevation
 1/8" SC

GENERAL DEMOLITION NOTES:

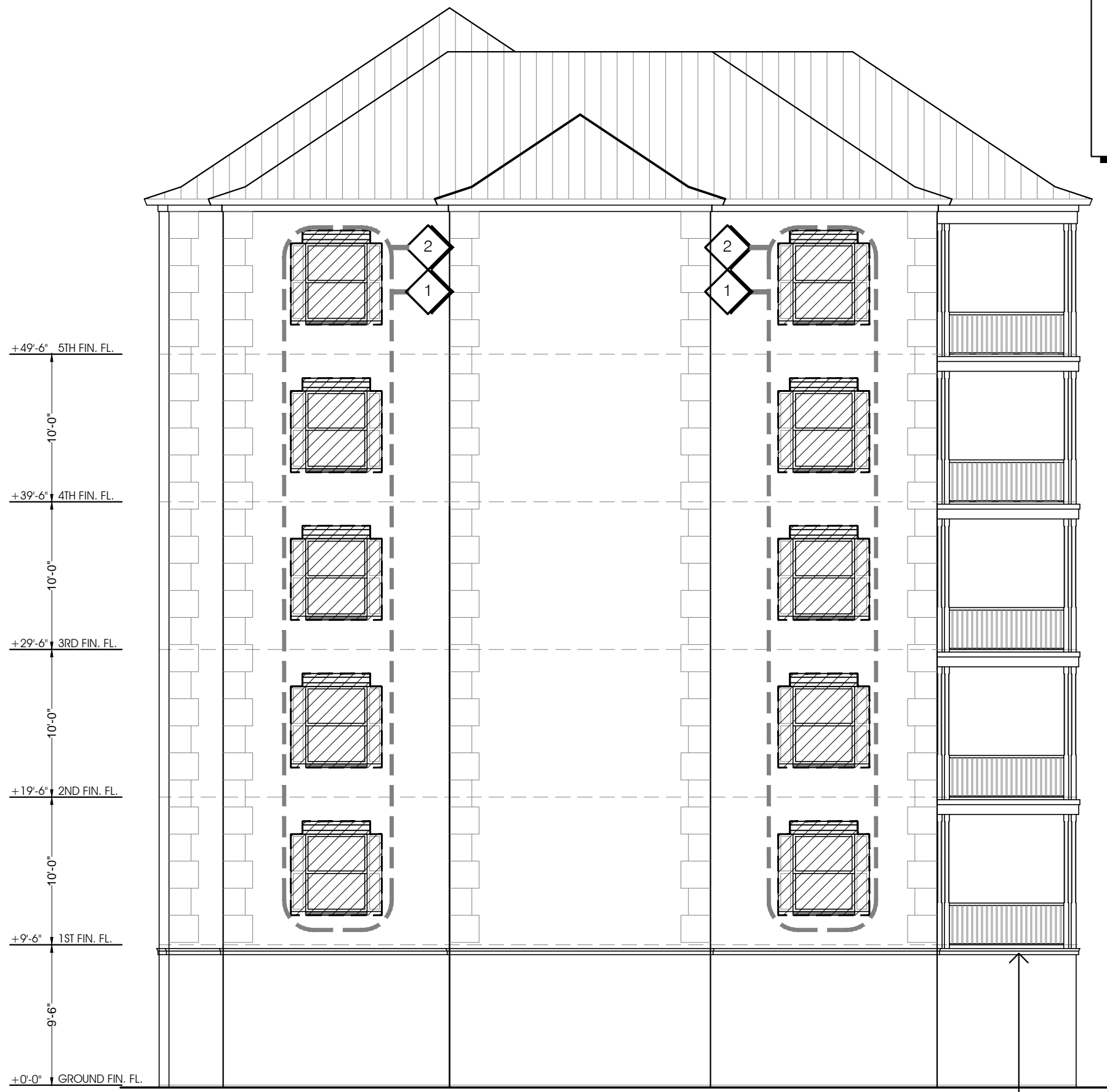
1. Contractor to notify architect of any discrepancies between plans and construction drawings prior to demo.
2. All waste material and debris shall be removed from the site by the contractor. Material shall not be allowed to accumulate or become a safety/fire hazard. Open burning will not be permitted. All the salvaged materials will become the contractor's property unless otherwise noted.
3. The owner reserves the right to inspect the material scheduled for removal and salvage any items they deem usable as spare parts.
4. Dust control: Use all means necessary to control air pollution and other environmental contamination as required to prevent dust or debris being a nuisance to the public, neighbors, and concurrent performance of other work in the building.
5. Protection: install and maintain barricades, and pedestrian cautions in accordance with local safety regulations and ordinances. Cutting and patching: it is intended that the general contractor shall perform all cutting and patching for general construction trades, mechanical and electrical. Patching shall mean the restoration of a surface or item to its original condition to match the existing unless otherwise indicated, noted, detailed or specified. Cutting and patching shall be done by the proper trades and crafts necessary for the materials involved.

DEMOLITION Specific Notes:

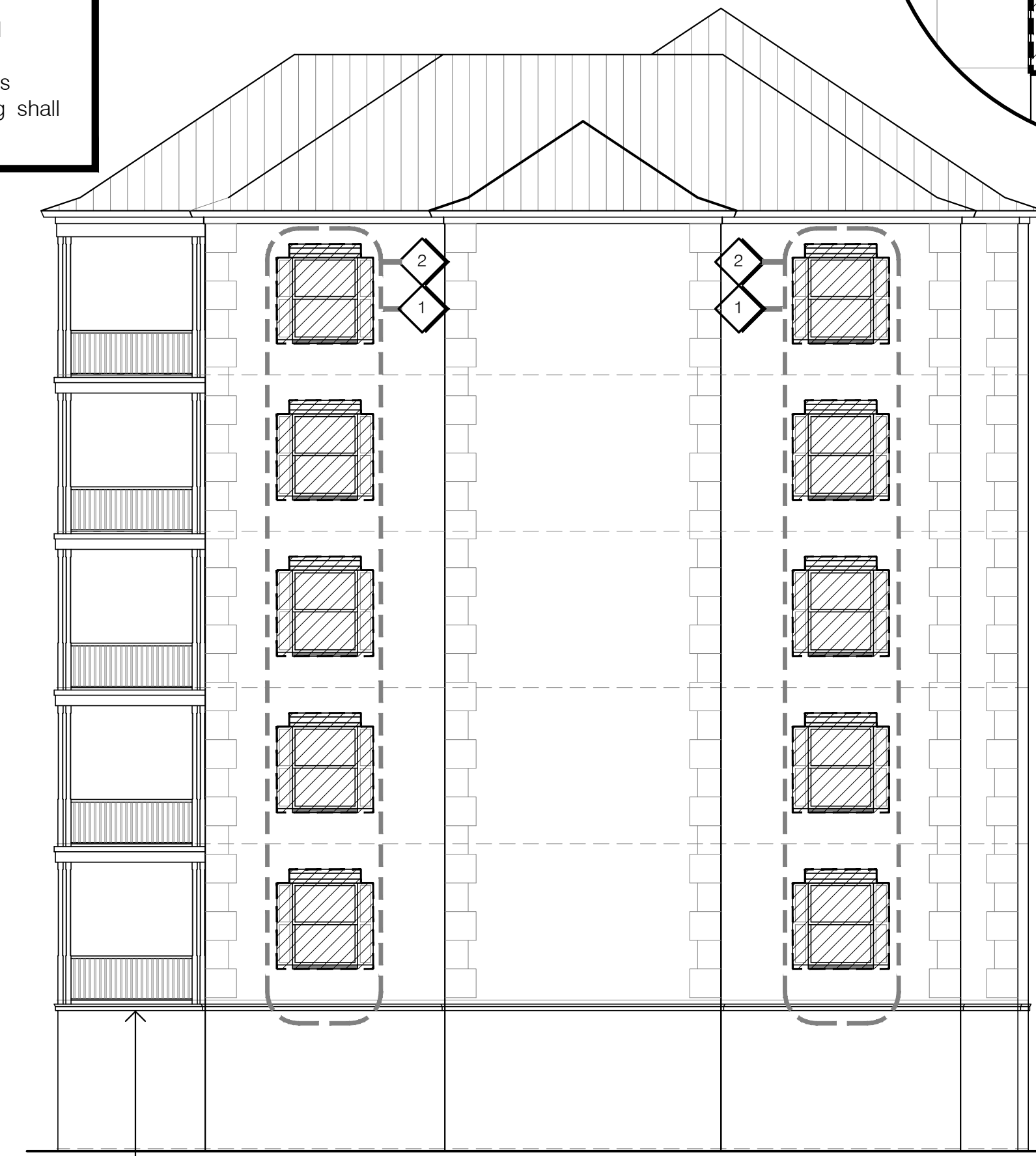
- 1 Remove Existing windows/ shutters as req'd for new window replacements
- 2 Remove Existing Roladen Rollup Shutters



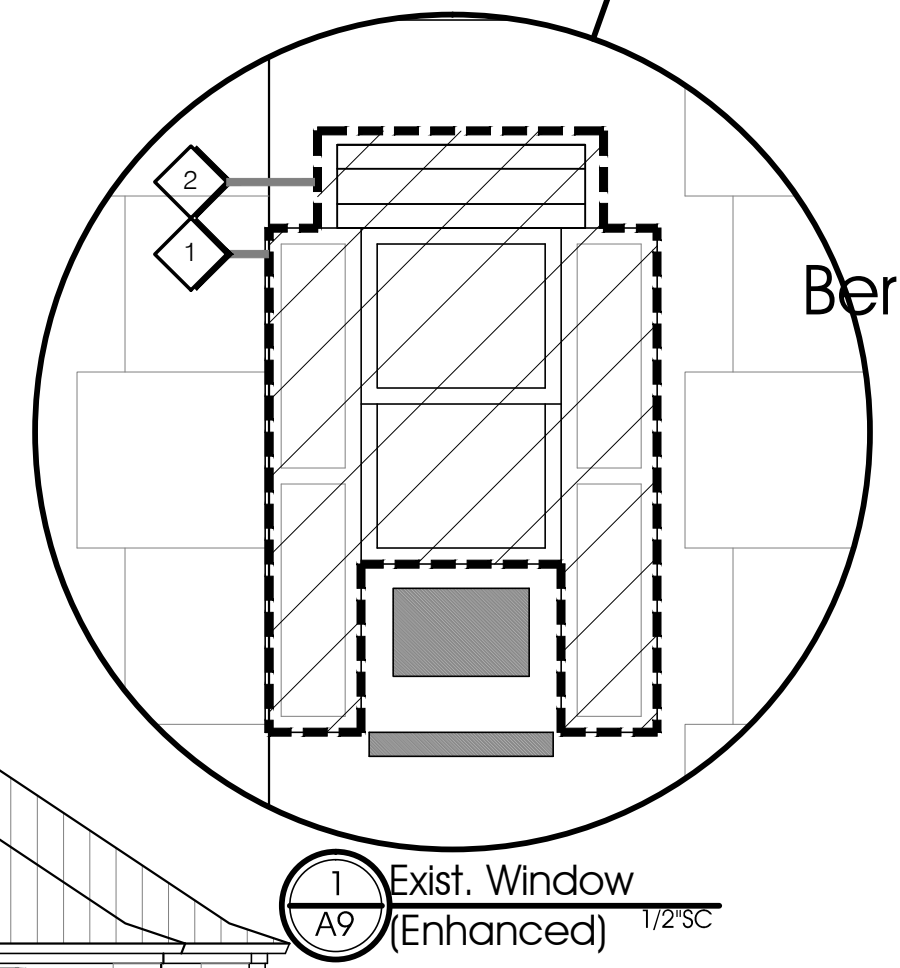
KEY PLAN
 N.T.S.



Elevation Right Side
 1/8" SC



Elevation Left Side
 1/8" SC



Bermuda High West
 2150 S. Ocean Boulevard
 Delray Beach, Florida
 RBA: PN: 11616.04

Issued
 Permit Set
 G.C. Bid Set
 Owner Review
 9-15-16: Structural Review

BUILDING #7 DEMO

Existing Elevations Bldg. 7
 6-Story Demo. Plan
 1/8" SC

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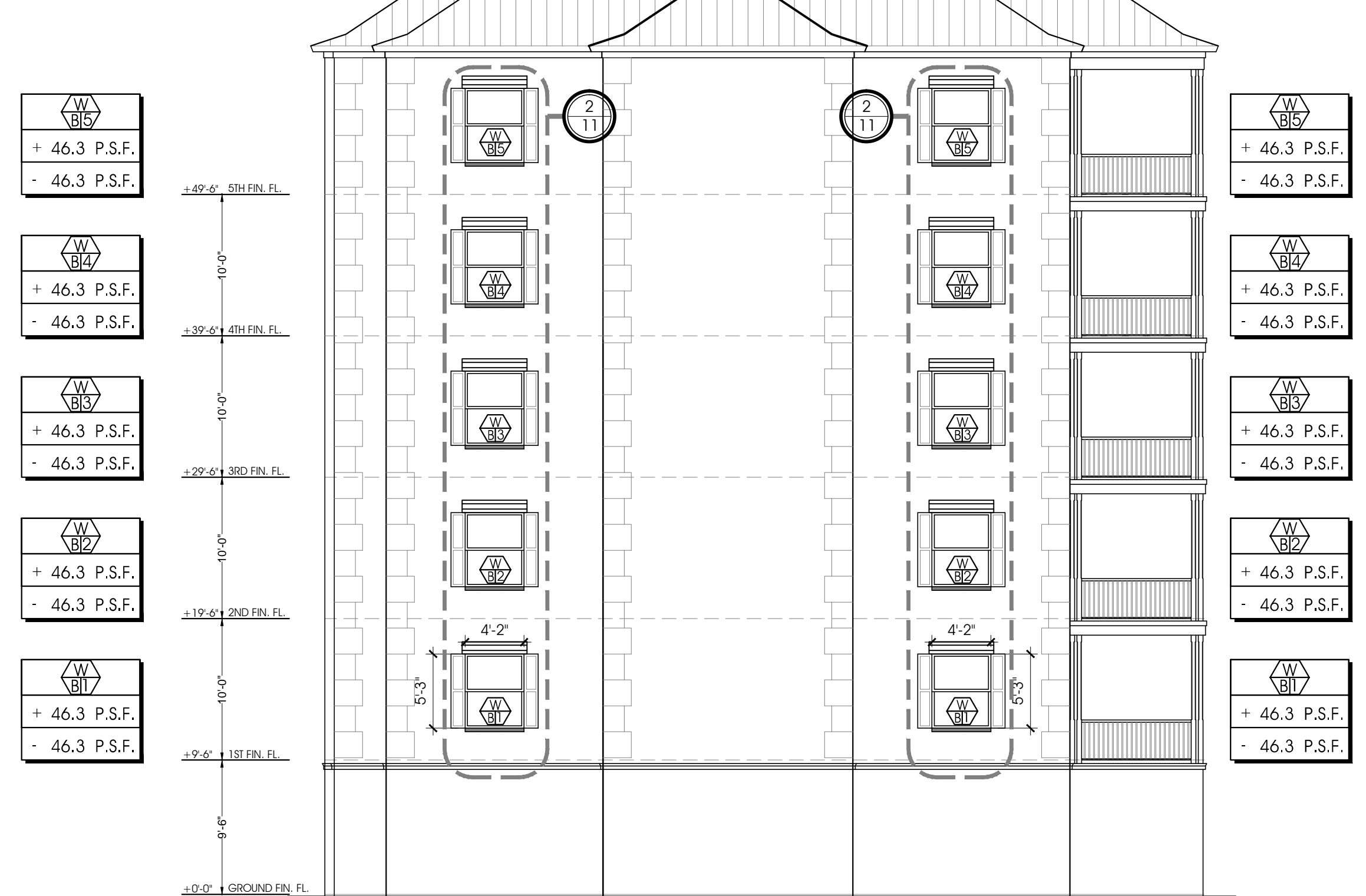
Date:
 Mark Duckett,
 P.E., S.I., S.E.S.C.
 consulting Structural Engineer
 3844 N.W. 43rd Terr.
 Coconut Creek, FL
 FL Registration P.E. #45196
 S.I. #1040



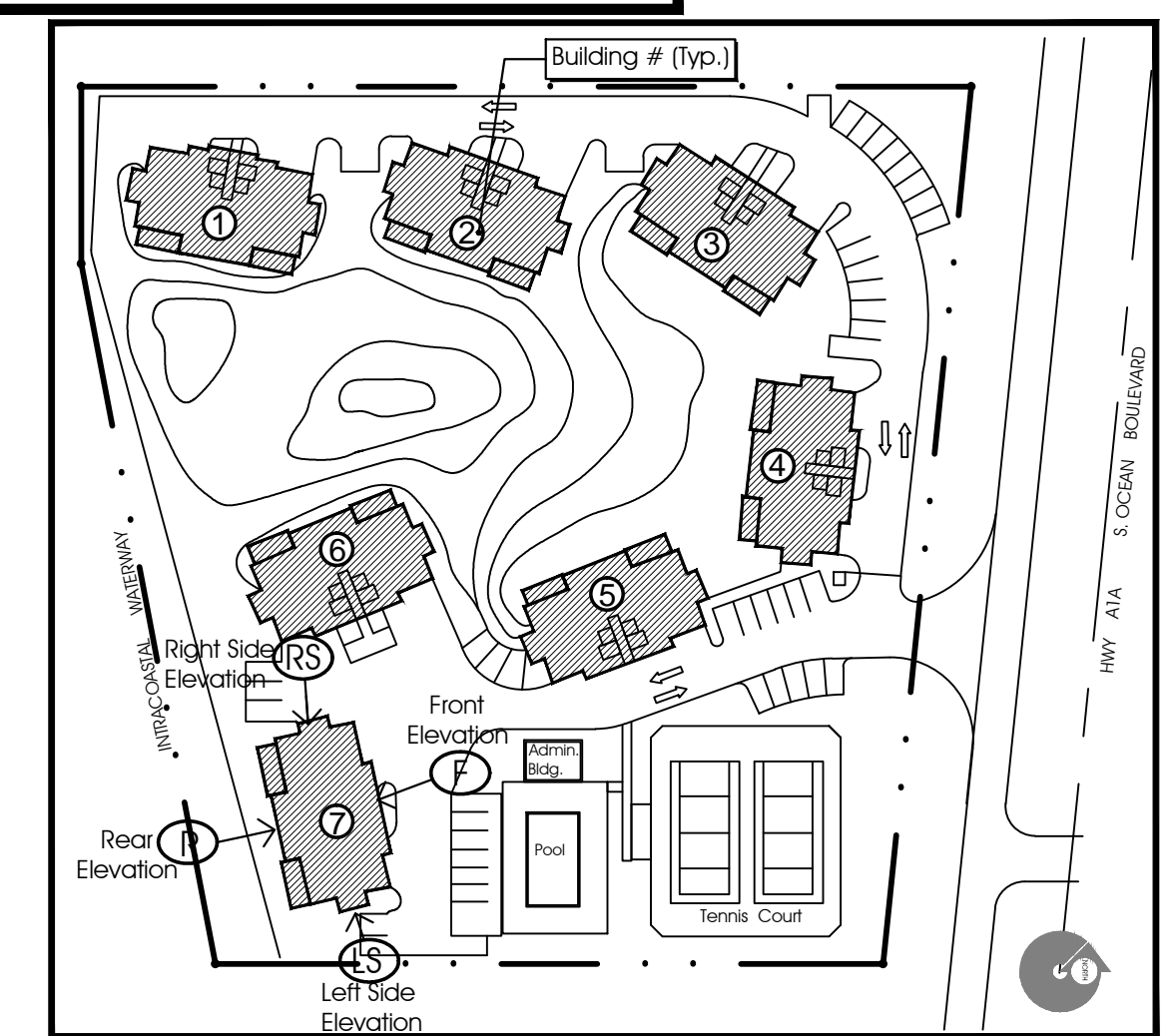
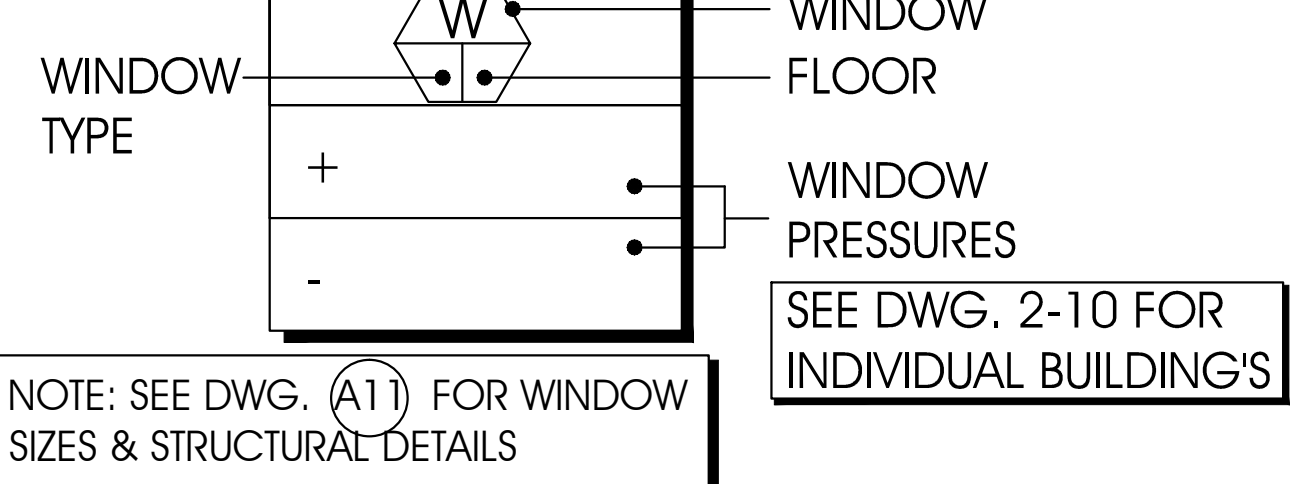
Rear Elevation

Front Elevation

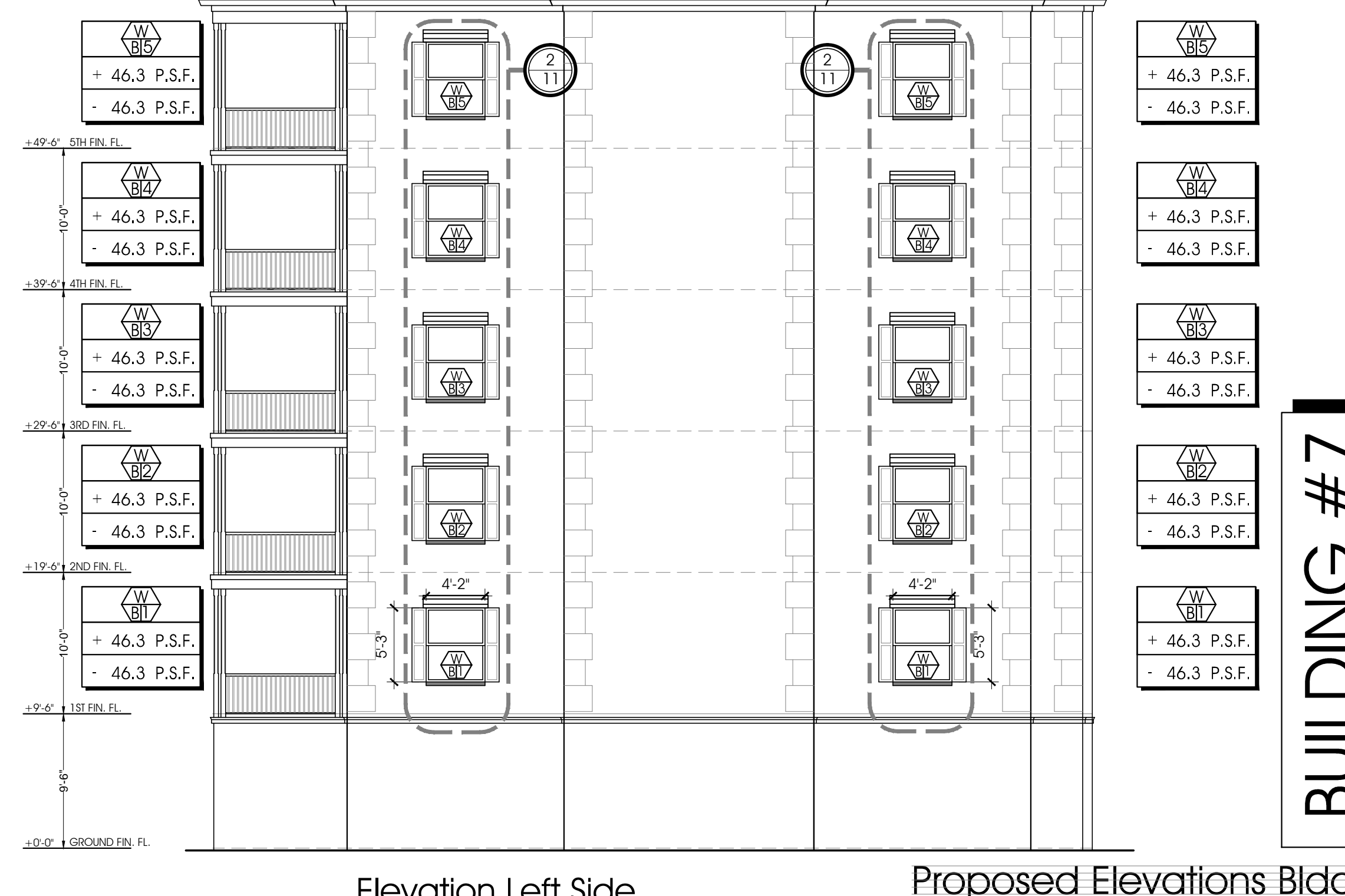
Finish Notes:		1/8" SC	
1	NEW PGT WINDOWS INSTALLED PER NOA	W 45	+ 46.7 P.S.F. - 85.6 P.S.F.
2	NEW 3/8" STUCCO FINISH TO MATCH EXISTING BONDING AGENT	W 46	+ 42.4 P.S.F. - 43.7 P.S.F.
3	ALUMINUM COLONIAL SHUTTER BY WILLARD SHUTTER CO. MIAMI, FL. INSTALL PER APPROVED NOA (MATCH EXISTING SHUTTER SPECS.)	W 47	+ 42.4 P.S.F. - 43.7 P.S.F.
Aluminum Colonial Shutters		W 48	+ 42.4 P.S.F. - 43.7 P.S.F.
ALUMINUM COLONIAL SHUTTER BY: WILLARD SHUTTER CO. MIAMI, FL. INSTALL PER APPROVED NOA (MATCH EXISTING SHUTTER SPECS.) 4420 NW 35 COURT, MIAMI, FL. 33142		W 49	+ 42.4 P.S.F. - 43.7 P.S.F.
W 50		W 51	+ 46.7 P.S.F. - 85.6 P.S.F.
W 51		W 52	+ 46.7 P.S.F. - 85.6 P.S.F.
W 52		W 53	+ 46.7 P.S.F. - 85.6 P.S.F.
W 53		W 54	+ 46.7 P.S.F. - 85.6 P.S.F.
W 54		W 55	+ 46.7 P.S.F. - 85.6 P.S.F.
W 55		W 56	+ 46.7 P.S.F. - 85.6 P.S.F.
W 56		W 57	+ 46.7 P.S.F. - 85.6 P.S.F.
W 57		W 58	+ 46.7 P.S.F. - 85.6 P.S.F.
W 58		W 59	+ 46.7 P.S.F. - 85.6 P.S.F.
W 59		W 60	+ 46.7 P.S.F. - 85.6 P.S.F.
W 60		W 61	+ 46.7 P.S.F. - 85.6 P.S.F.
W 61		W 62	+ 46.7 P.S.F. - 85.6 P.S.F.
W 62		W 63	+ 46.7 P.S.F. - 85.6 P.S.F.
W 63		W 64	+ 46.7 P.S.F. - 85.6 P.S.F.
W 64		W 65	+ 46.7 P.S.F. - 85.6 P.S.F.
W 65		W 66	+ 46.7 P.S.F. - 85.6 P.S.F.
W 66		W 67	+ 46.7 P.S.F. - 85.6 P.S.F.
W 67		W 68	+ 46.7 P.S.F. - 85.6 P.S.F.
W 68		W 69	+ 46.7 P.S.F. - 85.6 P.S.F.
W 69		W 70	+ 46.7 P.S.F. - 85.6 P.S.F.
W 70		W 71	+ 46.7 P.S.F. - 85.6 P.S.F.
W 71		W 72	+ 46.7 P.S.F. - 85.6 P.S.F.
W 72		W 73	+ 46.7 P.S.F. - 85.6 P.S.F.
W 73		W 74	+ 46.7 P.S.F. - 85.6 P.S.F.
W 74		W 75	+ 46.7 P.S.F. - 85.6 P.S.F.
W 75		W 76	+ 46.7 P.S.F. - 85.6 P.S.F.
W 76		W 77	+ 46.7 P.S.F. - 85.6 P.S.F.
W 77		W 78	+ 46.7 P.S.F. - 85.6 P.S.F.
W 78		W 79	+ 46.7 P.S.F. - 85.6 P.S.F.
W 79		W 80	+ 46.7 P.S.F. - 85.6 P.S.F.
W 80		W 81	+ 46.7 P.S.F. - 85.6 P.S.F.
W 81		W 82	+ 46.7 P.S.F. - 85.6 P.S.F.
W 82		W 83	+ 46.7 P.S.F. - 85.6 P.S.F.
W 83		W 84	+ 46.7 P.S.F. - 85.6 P.S.F.
W 84		W 85	+ 46.7 P.S.F. - 85.6 P.S.F.
W 85		W 86	+ 46.7 P.S.F. - 85.6 P.S.F.
W 86		W 87	+ 46.7 P.S.F. - 85.6 P.S.F.
W 87		W 88	+ 46.7 P.S.F. - 85.6 P.S.F.
W 88		W 89	+ 46.7 P.S.F. - 85.6 P.S.F.
W 89		W 90	+ 46.7 P.S.F. - 85.6 P.S.F.
W 90		W 91	+ 46.7 P.S.F. - 85.6 P.S.F.
W 91		W 92	+ 46.7 P.S.F. - 85.6 P.S.F.
W 92		W 93	+ 46.7 P.S.F. - 85.6 P.S.F.
W 93		W 94	+ 46.7 P.S.F. - 85.6 P.S.F.
W 94		W 95	+ 46.7 P.S.F. - 85.6 P.S.F.
W 95		W 96	+ 46.7 P.S.F. - 85.6 P.S.F.
W 96		W 97	+ 46.7 P.S.F. - 85.6 P.S.F.
W 97		W 98	+ 46.7 P.S.F. - 85.6 P.S.F.
W 98		W 99	+ 46.7 P.S.F. - 85.6 P.S.F.
W 99		W 100	+ 46.7 P.S.F. - 85.6 P.S.F.



Elevation Right Side



KEY PLAN



Elevation Left Side

Proposed Elevations Bldg. 7
 6-Story
 1/8" SC

BUILDING #7

Bermuda High West
 2150 S. Ocean Boulevard
 Delray Beach, Florida
 RBA: PN: 11616.04

Issued
 ● Permit Set
 ○ G.C. Bid Set
 ○ Owner Review
 ● 9-15-16: Structural Review

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GENERAL NOTES

1. GENERAL NOTES:

- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- ALL DETAILS DEPICTED ON THESE PLANS RELATIVE TO THE EXISTING STRUCTURE ARE BASED UPON ORIGINAL STRUCTURAL PLANS PREPARED BY D.E. BRIT AND ASSOCIATES, INC. ENTITLED "BERMUDA HIGH WEST", DATED 08-15-78. THE CONTRACTOR SHALL REFER TO THOSE DRAWINGS TO VERIFY THAT THE EXISTING BUILDING/STRUCTURE WAS CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THOSE PLANS PRIOR TO STARTING ANY WORK. REPORT ANY DISCREPANCIES FOUND TO THE ARCHITECT PRIOR TO PROCEEDING.

2. DESIGN LOADS:

- THE PRESSURES FOR THE WINDOW SYSTEMS DEPICTED ON THESE PLANS AND THE RETROFIT DETAILS SHOWN HEREIN ARE BASED UPON FLORIDA BUILDING CODE 2014 (5TH EDITION).
WIND PER ASCE 7-10:
MEAN ROOF HEIGHTS: 44'-0" FOR 4 STORY AND 64'-0" FOR 6 STORY
3 SECOND GUST WIND SPEED = 170 MPH (ULT); 132 MPH (ASD)
EXPOSURE C, ENCLOSED BUILDING
RISK CATEGORY = II

3. CONCRETE:

- SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS WITH A PLASTIC AND WORKABLE MIX.
- FLY ASH MAY BE USED IN CONCRETE MIX DESIGN, ALTHOUGH IT SHALL BE LIMITED TO 15% MAXIMUM REPLACEMENT OF CEMENT (BY WEIGHT).
- PROPOSED MIX DESIGNS SHALL BE BASED UPON RECENT FIELD CYLINDER OR LAB TESTS. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE. CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS INITIALLY ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL NOT BE PLACED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.
- ALL CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA.
- CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.

4. CONCRETE TESTING:

- AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:
 - ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." MAXIMUM SLUMP SHALL BE 6 INCHES.
 - ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:

1	AT 7 DAYS	1	AT 3 DAYS
2	AT 28 DAYS		
- ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED. ALL CONCRETE OVER 90 MINUTES OLD (FROM BATCH TO PLACEMENT) SHALL BE DISCARDED.

5. FORMWORK AND SHORING:

- NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28 DAY DESIGN STRENGTH. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET THE REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301, AND DESIGNED BY A FL REGISTERED PE.

6. REINFORCING STEEL:

- SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. IF DESIRED, APPROVAL OF SHOP DRAWINGS PRIOR TO FABRICATION MAY BE PERFORMED BY S.E.O.R. CONTACT S.E.O.R. TO CONTRACT FOR THOSE SERVICES. ALL BARS TO BE WELDED SHALL BE THOSE SPECIFICALLY MANUFACTURED FOR WELDING PURPOSES. CERTIFIED WELDERS W/CERTIFICATES ONLY SHALL WELD THESE BARS. INSPECTOR SHALL VERIFY WELDABILITY AND COLLECT CERTIFICATES.

7. MASONRY WALLS:

- FILLING OF MASONRY CELLS WITH CONCRETE SHALL BE PROHIBITED. ONLY MIX DESIGNS PROPORTIONED FOR GROUTING MASONRY SHALL BE APPROVED.

8. WINDOWS AND DOOR SYSTEMS:

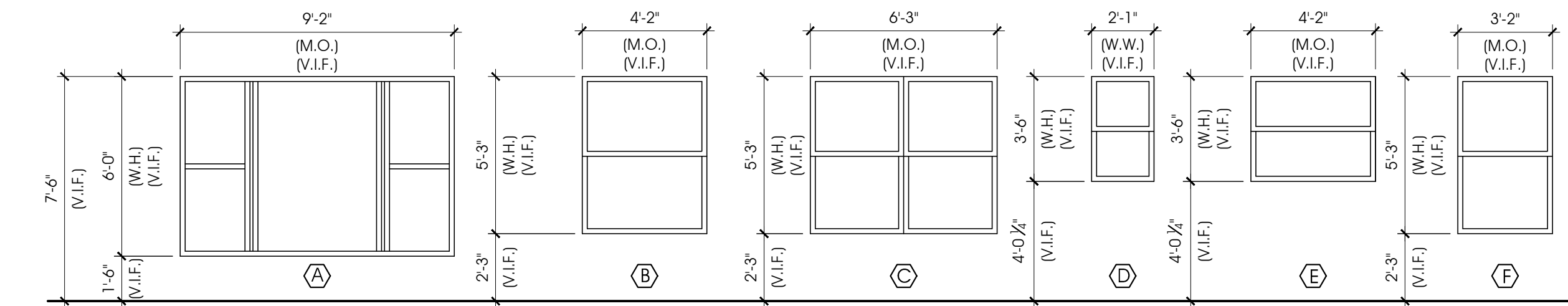
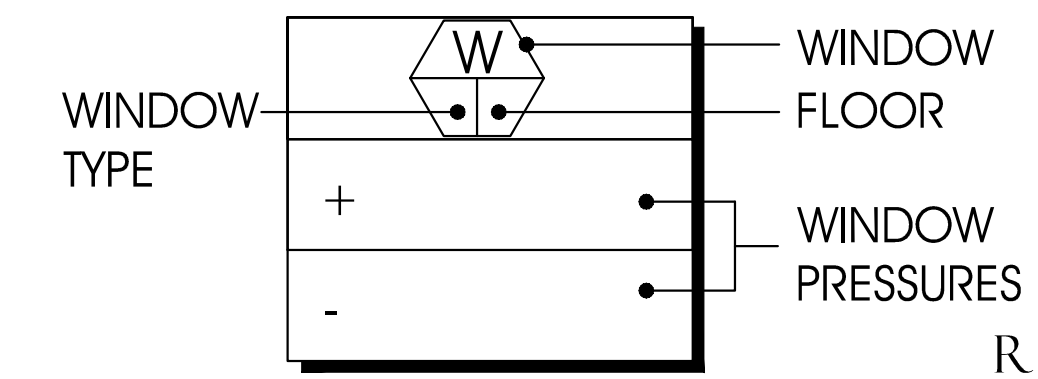
- ALL DOOR AND WINDOW SYSTEMS SHALL BE DESIGNATED AS "SPECIALTY ENGINEERED ITEMS AND THE DESIGN OF THESE SYSTEMS" AND THEIR CONNECTIONS TO THE STRUCTURE DEPICTED ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE SUPPLIER/SPECIALTY ENGINEER. SUBMIT PRODUCT APPROVAL INFORMATION (OR SIGNED AND SEALED CALC'S) FOR APPROVAL PRIOR TO FABRICATION.
- ALL DOOR AND WINDOW SYSTEMS SHALL BE DESIGNED TO SAFELY RESIST THE MIN. WIND PRESSURES SHOWN ON THIS SHEET. SUBMIT SHOP DRAWINGS AND/OR PRODUCT APPROVAL VERIFYING CONFORMANCE.

9. INSPECTIONS:

- THE FOLLOWING WORK SHALL BE INSPECTED BY A SPECIAL INSPECTOR, OR THE BUILDING OFFICIAL:
 - INSTALLATION OF DOORS AND WINDOWS
 - REINFORCED MASONRY RETROFIT DETAILS

MARK	SIZE	TYPE	GLASS		FRAME		TOP AFF	NOA req'd
			TINT	IMPACT	COLOR	MATERIAL		
(A)	9'-2"	Fixed Glass	GREY	YES	WHITE	Aluminum	Match exist. Opening	YES
(B)	4'-2"	Single Hung	GREY	YES	WHITE	Aluminum	*	YES
(C)	6'-3"	Single Hung	GREY	YES	WHITE	Aluminum	*	YES
(D)	2'-1"	Single Hung	GREY	YES	WHITE	Aluminum	*	YES
(E)	4'-2"	Single Hung	GREY	YES	WHITE	Aluminum	*	YES
(F)	3'-2"	Single Hung	GREY	YES	WHITE	Aluminum	*	YES

NOTE: ALL WINDOWS BASED ON PGT



Window Elevations

RETROFIT TYPE 1

SIDES OF NEW WINDOW SYSTEM REQUIRE (2) #6 VERTICAL IN 2 GROUT-FILLED CELLS DIRECTLY ADJACENT TO WINDOW OPENING, PLUS A NEW 8"x8" MIN. CONCRETE CAP WITH (2) #5 HORIZONTAL AT BOTTOM (SILL) OF NEW WINDOW SYSTEM. SEE DETAILS "X" AND "Y" FOR REQUIREMENTS.

RETROFIT TYPE 2

SIDES OF NEW WINDOW SYSTEM REQUIRE (1) #6 VERTICAL IN 1 GROUT-FILLED CELL DIRECTLY ADJACENT TO WINDOW OPENING. SEE DETAIL "X" FOR REQUIREMENTS. EXISTING CONCRETE SILL TO REMAIN.

RETROFIT TYPE 3

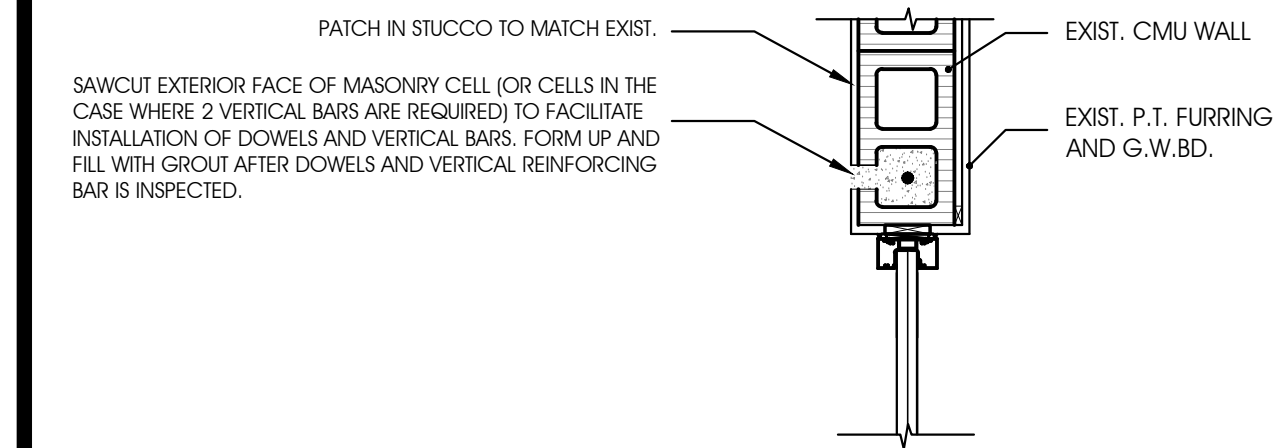
SIDES OF NEW WINDOW SYSTEM REQUIRE (2) #5 VERTICAL IN 2 GROUT-FILLED CELLS DIRECTLY ADJACENT TO WINDOW OPENING, PLUS A NEW 8"x8" MIN. CONCRETE CAP WITH (2) #5 HORIZONTAL AT BOTTOM (SILL) OF NEW WINDOW SYSTEM. SEE DETAILS "X" AND "Y" FOR REQUIREMENTS.

RETROFIT TYPE 4

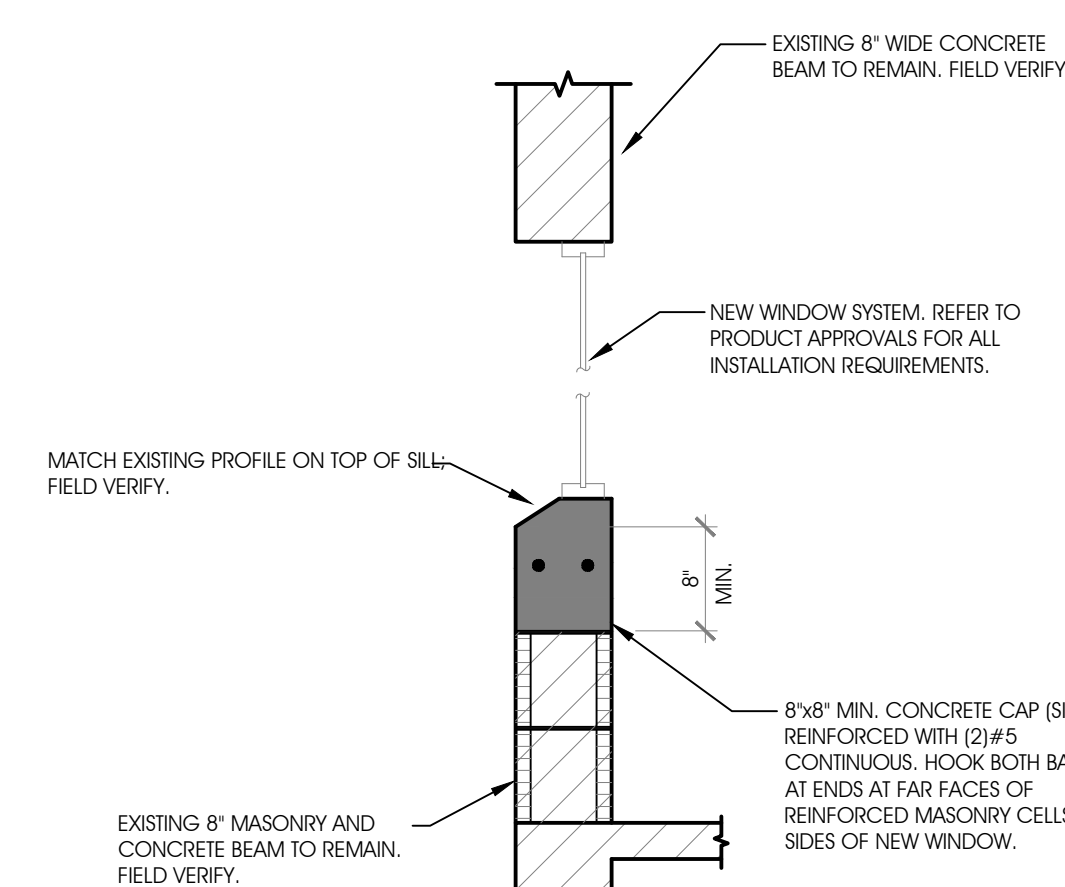
SIDES OF NEW WINDOW SYSTEM REQUIRE (1) #6 VERTICAL IN 1 GROUT-FILLED CELL DIRECTLY ADJACENT TO WINDOW OPENING. SEE DETAIL "X" FOR REQUIREMENTS. EXISTING CONCRETE SILL TO REMAIN.

RETROFIT TYPE 5

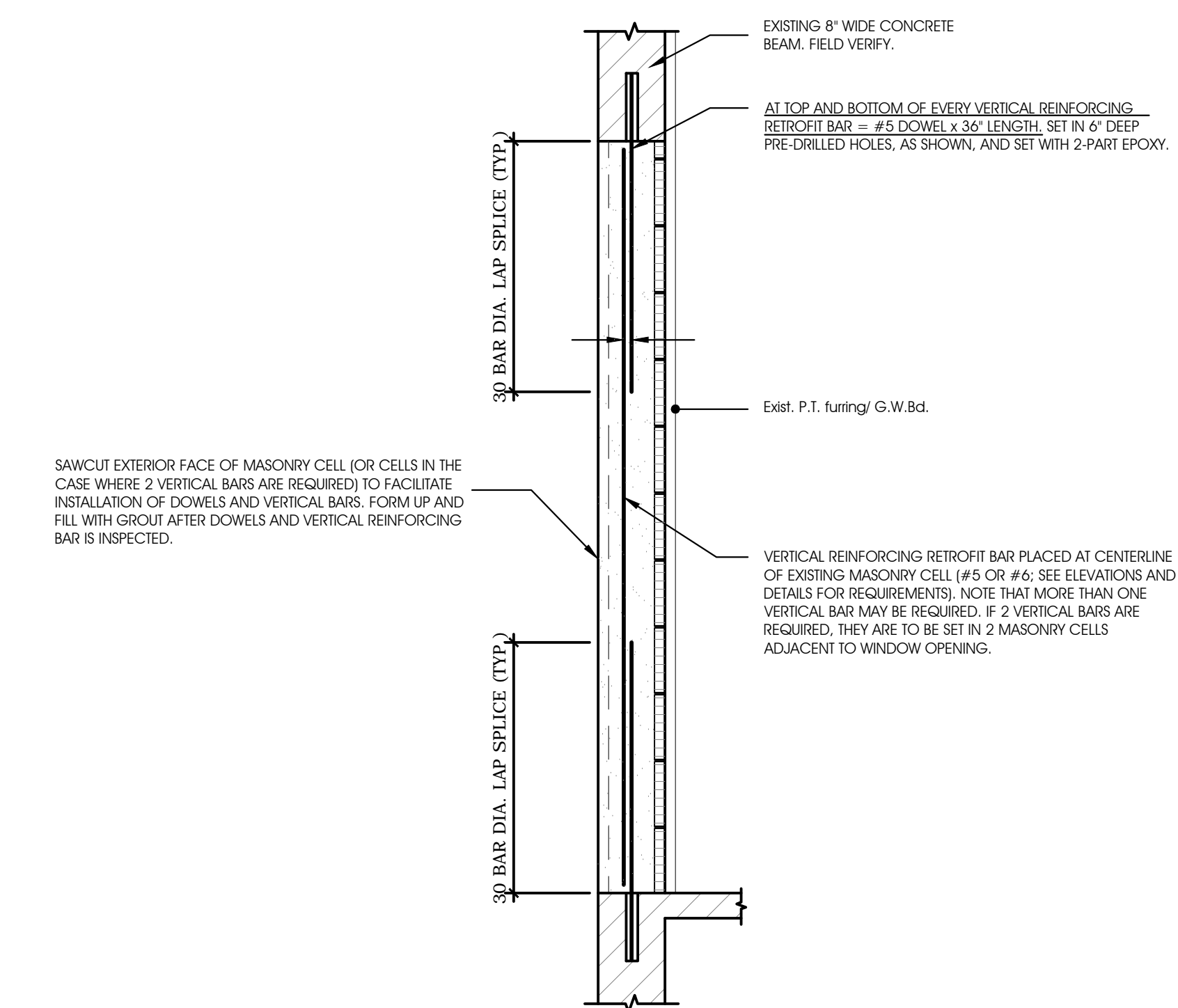
SIDES OF NEW WINDOW SYSTEM REQUIRE A (NEWLY) GROUT-FILLED CELL DIRECTLY ADJACENT TO WINDOW OPENING (NO VERTICAL REINFORCING IS REQUIRED). EXISTING CONCRETE SILL TO REMAIN.



3/11 Filled Cell Jamb Detail 3/4" SC



2/11 New Concrete Cap (Sill) Detail 3/4" SC



1/11 Masonry Reinforcing Detail At Sides of New Windows 3/4" SC

Structural Notes & Details

1/8" SC

PROGRESS SET/NFC 09/15/2016

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