



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
 PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Quick House USA, LLC.
 11860 W. State Road, Suite B 13
 Fort Lauderdale, FL 33325

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: QH-610 (Exterior or Partition) Composite Wall Panel System

APPROVAL DOCUMENT: Drawing No. 15-239, titled "QH-610 (Exterior or Partition) Steel Wall Panel System", sheets 1 through 16 of 16 (including 3A and 4A), dated 11/23/2015, prepared by the Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing plant's city and state, model/series, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on each panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA consists of this page 1, evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Carlos M. Utrera, P.E.



CUtrera
 05/02/2016

NOA No 16-0114.05
 Expiration Date: May 12, 2021
 Approval Date: May 12, 2016
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing **15-239**, titled "QH-610 (Exterior or Partition) Steel Wall Panel System", sheets 1 through 16 of 16 (including 3A and 4A), dated 11/23/2015, prepared by the Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS

1. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Compression Loading per ASTM E72
7) Tension Loading per ASTM E72
8) Racking Loading per ASTM E72
along with marked-up drawings and installation diagram of QH-610 Series Steel Panels, prepared by Intertek/Architectural Testing, Inc., Test Report No. **BT-QHU-15-003**, dated 11/19/2015, signed and sealed by Yamil G. Kuri, P.E.
2. Test report on Tensile Test per ASTM E 8-15a of the 0.036" galvanized steel, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-15-T329**, dated 11/24/2015, signed and sealed by Rafael E. Droz-Seda, P.E.

C. CALCULATIONS

1. Anchors verification calculations prepared by Tilteco, Inc., dated 07/23/2015, signed and sealed by Walter A. Tillit, Jr., P.E.

D. MATERIAL CERTIFICATIONS

1. None.

E. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

F. STATEMENTS

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Tilteco, Inc., dated 12/10/2015, signed and sealed by Walter A. Tillit, Jr., P.E.
2. Statement letter of no financial interest letter issued by Tilteco, Inc., dated 12/10/2015, signed and sealed by Walter A. Tillit, Jr., P.E.


05/02/2016

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 16-0114.05
Expiration Date: May 12, 2021
Approval Date: May 12, 2016

GENERAL NOTES:

1. THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) APPLIES ONLY TO THE STRUCTURAL WALL PANELS INDICATED AND SPECIFIED ON THIS DRAWING, HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2014 (5th EDITION) OF THE F.B.C.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

DESIGN DEAD AND LIVE LOADS SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1616 OF THE FLORIDA BUILDING CODE.

2. BUILDING DIMENSIONS, DETAILS, UPLIFT, OVERTURNING, FOUNDATION, ROOF AND OTHER ELEMENTS WHERE WALL PANELS WILL BE INSTALLED SHALL BE DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.

3. ALL ELECTRICAL, MECHANICAL DETAILS AND PARTS AND FIRE RATING PROVISIONS ARE NOT PART OF THIS APPROVAL AND SHALL BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER AND REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.

4. ALL STEEL PANELS AND TRACKS SHALL HAVE COMMERCIAL QUALITY ASTM A-653, GRADE 50 Min. WITH 50 KSI Min. YIELD STRENGTH (AFTER ROLLED). G-90 GALVANIZED STEEL DESIGNATION.

5. ALL SCREWS SHALL BE CORROSION RESISTANT AS PER DIN 50018 WITH FLAT HEAD AND RAISED SIDES TO PREVENT EXCESSIVE PENETRATION WITH MIN. $F_y = 80$ ksi & SHALL COMPLY WITH FLORIDA BUILDING CODE SECTION 2411.3.3.4. ALL MACHINE SCREWS MAY BE HEX HEAD, SEE BILL OF MATERIALS ON SHEET 3.

6. ANCHORS TO CONCRETE FLOOR & FOUNDATION, OR CONCRETE SHALL BE AS FOLLOWS:

3/8" ϕ WEDGE BOLT AS MANUFACTURED BY POWER FASTENERS INC., WITH 3" MINIMUM EMBEDMENT INTO MIN. $f'_c=3$ ksi CONCRETE.

NOTE: TO VERIFY THAT ANCHORS ARE NOT OVERSTRESSED IN THESE APPROVAL DOCUMENTS, A 33% INCREASE IN ALLOWABLE LOADS WAS NOT USED IN THE ANCHORS ANALYSIS.

7. QH-610 WALL PANEL SYSTEM IS DESIGNED TO BE INSTALLED AS AN EXTERIOR BEARING WALL OR CURTAIN WALL, OR AS AN INTERIOR NON BEARING PARTITION (SEE NOTE 8).

- WHEN INSTALLED AS AN EXTERIOR BEARING WALL, PANEL SHALL BE Laterally supported by a concrete slab and foundation at the bottom, and roof trusses or rafters with sheathing at top, at a spacings not to exceed 24" on centers. Wall connection to roof system shall be performed by a Florida registered professional engineer or architect and reviewed by the structural plans examiner of the corresponding building department in order to issue a permit for construction. Structural design shall include provisions for all loads developed at the joint between wall panels and roof system.

- WHEN INSTALLED AS A CURTAIN WALL, PANEL SHALL BE Laterally supported by concrete slabs/beams, wood or steel structural beams. Spacing between lateral support shall not to exceed 24" on centers on buildings without a concrete slab. For buildings with concrete slabs or continuous concrete beams, installation shall be similar to section B-B, sheet 6. Structural adequacy of existing building shall be verified by the permit holder.

MAXIMUM ALLOWABLES: OBTAINED THRU TESTING PERFORMED AS PER TAS 201, 202, 203 AND ASTM E-72, AS PER BLACKWATER TESTING INC., REPORT # BT-QHU-15-003.

LARGE MISSILE IMPACT RESISTANT: 50 FT/SEC. MISSILE SPEED.

MAXIMUM PANEL HEIGHT: 96"

MAXIMUM PANEL WIDTH: 48" ((2)24" PANELS ① / ② / ③ + (1)48" PERMABASE)

MAXIMUM COMPRESSION LOAD PER PANEL: 2400 Lb/FT

MAXIMUM TENSION LOAD PER PANEL: 920 Lb/FT

MAXIMUM RACKING LOAD PER PANEL: 225 Lb/FT *

MAXIMUM LATERAL WIND LOAD FOR PANELS @ 24" o.c.: +50.0, -50.0 psf

* ONLY SOLID PANELS (WITH NO OPENINGS) SHALL BE CONSIDERED TO RESIST THE RACKING FORCES.

8. QH-610 PANEL MAY BE ALSO USED FOR INTERIOR NON BEARING PARTITIONS. STRUCTURAL ADEQUACY OF QH-610 PANEL HAS BEEN VERIFIED BY BLACKWATER TEST INC. LAB, PER REPORT # BT-QHU-15-003. QH-610 PANELS USED AS INTERIOR PARTITIONS SHALL COMPLY W/ SECTIONS 1607.14, 2508 AND ANY OTHER APPLICABLE SECTION OF THE FLORIDA BUILDING CODE.

9. ELECTRIC SERVICE DROP CONDUCTORS OR ANY OVERHEAD WIRING SHALL NOT EXIST OR BE INSTALLED OVER ANY PART OF THIS STRUCTURE.

10. (a) THIS P. A. D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i. e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P. A. D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P. A. D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS P.A.D. WILL BE CONSIDERED INVALID IF MODIFIED.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.

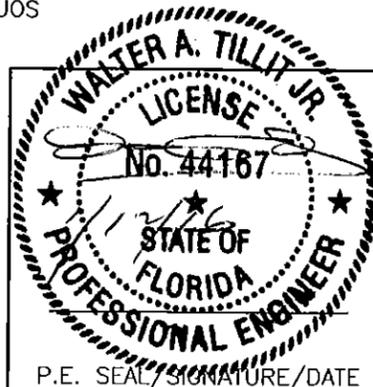
11. A PERMANENT PANEL MANUFACTURER'S LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE PANEL. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:

QH 610 SERIES WALL PANEL SYSTEM
QUICK HOUSE U.S.A.
 DAVIE, FLORIDA
 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

Approved as complying with the Florida Building Code
 Date 05/12/2016
 NOAR 16.0114.05
 Miami Dade Product Control

By *[Signature]*



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)					
©2015 TILTECO, INC			QH-610 (EXTERIOR OR PARTITION), WALL PANEL SYSTEM		DRAWN BY F.R.L.
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 . Fax: (305)871-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			QUICK HOUSE U.S.A., LLC. 11860 WEST STATE ROAD 84, # B13 DAVIE, FL. 33325 PH:954-870-6366 PH:954-870-6367		11/23/15 DATE
			15-239 DRAWING No		
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1			3		
2			4		
					SHEET 1 OF 16

SPECIFICATIONS FOR NON METALLIC WALL COMPONENTS, APPLICABLE TO EXTERIOR QH-610 WALL PANEL SYSTEM:

1. THE ACROCRETE ACROWALL DA SYSTEM PROVIDES WEATHER RESISTANT TO EXTERIOR WALL. THE UTILIZATION OF DURABLE CEMENTITIOUS BOARD SUBSTRATE (PERMABASE BOARD) COMBINED WITH ACROCRETE ACRYLIC FINISH PROVIDES THE DESIRED ESTHETICS OF VARIOUS COLORS AND TEXTURES TO ACHIEVE AN ARCHITECTURALLY PLEASING WALL. THE ACROCRETE ACROWALL DA SYSTEM IS BACKED BY A 10 YEARS LIMITED MANUFACTURERS WARRANTY ON THE CEMENTITIOUS BOARD (PERMABASE BOARD) AND A 5 YEARS LIMITED MANUFACTURERS WARRANTY ON ALL COATINGS.
2. PRIMER-SEALER-ADHESIVE MODEL KILZ 2 LATEX BY MASTERCHEM INDUSTRIES LLC., IS A READY TO USE LATEX SEALER THAT SHALL BE USED TO BOND THE PERMABASE BOARD TO THE PANELS (①, ② OR ③) BEHIND IT.
3. PERMABASE™ CEMENT BOARD BY NATIONAL GYPSUM COMPANY, IS A 1/2" THICK, CEMENTITIOUS TILE BACKER BOARD MADE OF PORTLAND CEMENT, AGGREGATE AND REINFORCED WITH FIBERGLASS MESH. THE BOTTOM (UNEXPOSED) SIDE FACING HAS A SMOOTH FINISH WITH A FIBERGLASS MESH EMBEDDED IN THE CEMENT SLURRY AND THE TOP (EXPOSED) SIDE FACING HAS A ROUGH FINISH WITH A FIBERGLASS MESH MECHANICALLY EMBEDDED INTO CORE WITH A WEIGHT OF 3.0 POUNDS PER SQUARE FOOT.

PHYSICAL PROPERTIES:	TEST METHOD	PERMABASE
FLEXURAL STRENGTH (psi)	ASTM C 947	750
WEIGHT (psf)	ASTM C 473	3
COMPRESSIVE STRENGTH (psi) (INDENTATION)	ASTM D 2394	2250
FLAME SPREAD/SMOKE DEVELOPED	ASTM E 84	5/0
THERMAL "R"/K VALUE	PROPERTY OF MATERIAL	0.2/2.7
SHEAR BOND STRENGTH, 7 DAYS:		
DRY-SET PORTLAND CEMENT MORTAR (psi)	ANSI A118.1	204
LATEX-SET PORTLAND CEMENT MORTAR (psi)	ANSI A118.4	241
ORGANIC ADHESIVES TYPE 1 (psi)	ANSI A136.1	159

4. ACROCRETE BASE COAT BY BASF CORPORATION FL., IS AN ACRYLIC ADHESIVE AND BASE COAT COMBINATION FOR THE ACROCRETE WALL SYSTEMS, USED TO EMBED REINFORCING MESH AND USED AS A LEVELING COAT. THE PROPER MIXING RATIO IS 12 Lb OF WATER TO 50 Lb/BAG OF ACROCRETE BASE COAT, COVERING APPROXIMATELY 100 SQUARE FEET OF WALL.
5. ACROMESH BY BASF CORPORATION FL., IS A SPECIALLY WOVEN AND TREATED FIBERGLASS REINFORCING HIGH IMPACT MESH, ALKALI RESISTANT, THICKNESS: 0.045+10% INCHES, WEIGHT: 20.5+10% oz./sq.yd., MINIMUM TENSILE WRAP: 800 Lb/in AND MINIMUM TENSILE FILL: 550 Lb/in.
6. ACROCRETE FINISH BY BASF CORPORATION FL., IS A PREMIXED DECORATIVE AND PROTECTIVE WALL COATING. IT IS FORMULATED WITH A 100% PURE ACRYLIC BASED COATINGS INCORPORATING PURE MARBLE AGGREGATES IN VARIETY OF COLOR AND TEXTURES. 70 Lb PAIL COVERS APPROXIMATELY 100-190 SQUARE FEET OF WALL DEPENDING ON TEXTURE.
7. ACROMESH AND ACROCRETE FINISH BY BASF CORPORATION FL. BEAR ALSO A MIAMI-DADE COUNTY PRODUCT CONTROL ACCEPTANCE AS COMPONENTS OF A WALL SYSTEM.

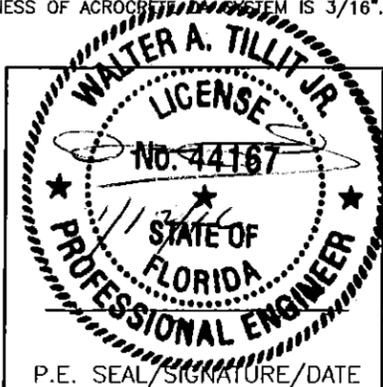
-TEST REPORTS ON ACROCRETE, PREPARED BY APPLIED CONSUMER SERVICES INC.

NUMBER	TEST	ADDITIONAL TEST:
2525-A	ASTM G 26, WEATHERING EXPOSURES	-TEST REPORT ON FIRE PROPAGATION UNDER MODIFIED ASTM E 108, PREPARED BY TESTING CONSULTANTS, INC. PROJECT NUMBER 002010.
2525-B	ASTM E 96, VAPOR TRANSMISSION	-TEST REPORT ON SURFACE BURNING CHARACTERISTICS OF ACROCRETE FINISH APPLIED TO GRC BOARD, TESTED UNDER ASTM E-84, PREPARED BY COMMERCIAL TESTING COMPANY, REPORT No. 75239.
2525-C	UL-181, p.11, MOLD RESISTANCE	-TEST REPORT ON WEATHERING EXPOSURE TESTS WITH XENON ARC AND RAIN CYCLES, 2000 HOURS UNDER ASTM G-26, PREPARED BY APPLIED CONSUMER SERVICES, INC., REPORT L/N 2931.
2525-D	ASTM D 413, ADHESION TEST	-TEST REPORT ON IMPACT LOAD RESISTANCE OF ACROWALL DA FINISH SYSTEMS UNDER EIMA TEST METHOD AND STANDARD 101.86, PREPARED BY ACROCRETE, INC.
2525-E	ASTM D 2240, HARDNESS TEST	-TEST REPORT ON PHYSICAL PROPERTIES, PREPARED BY JIM WALTER RESEARCH CORP. THE FOLLOWING TESTS WERE PERFORMED:
2525-F	ASTM C 177, THERMAL RESISTANCE	. COMPRESSIVE STRENGTH UNDER ASTM D 1621.
2525-G	ASTM C 6, WATER ABSORPTION	. FLEXURAL STRENGTH UNDER ASTM C 203.
2525-H	FS TT-C-555, WIND DRIVEN RAIN	. WATER ABSORPTION UNDER ASTM C 272.
2525-I	ASTM B 177, SALT FOG	. WATER VAPOR TRANSMISSION UNDER ASTM E 96.
2525-J	ASTM C 6, p14, FREEZE/THAW	. DIMENSIONAL STABILITY UNDER ASTM D 2126.
2525-K	ASTM D 968, SAND ABRASION	-TEST REPORT ON SURFACE BURNING CHARACTERISTICS UNDER ASTM E 84 FOR ACRODRIY PREMIXED BASE COAT, CELOTEX CORPORATION TESTING SERVICES, MTS JOB No. 520228.
2525-L	ASTM D 1308/ANSI Z-124.2 (MODIFIED), CHEMICAL RESISTANCE	-ENGINEERING FIRE INVESTIGATION OF ACRODRIY, WALKER ENGINEERING, INC.
2525-M	STAIN RESISTANCE	

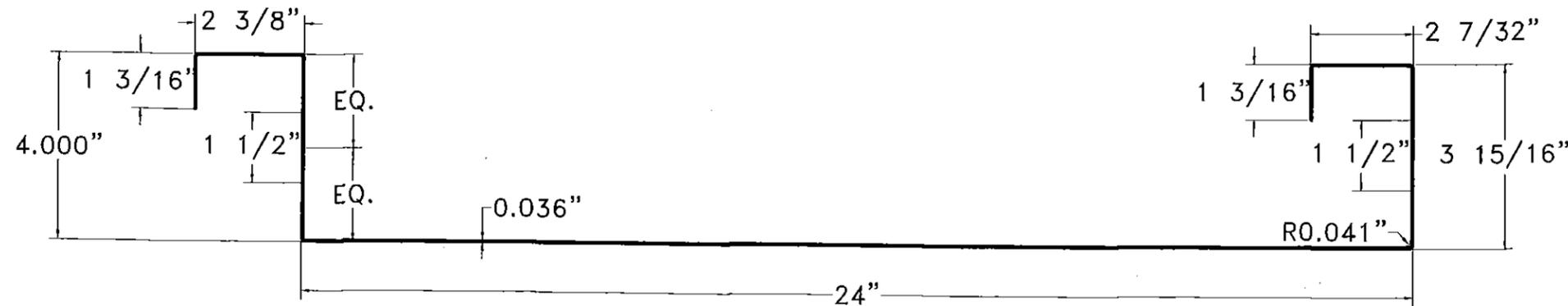
APPLICATION SEQUENCE:

1. SPREAD 6-8 MIL OF PRIMER-SEALER-ADHESIVE TO BOND THE PERMABASE™ CEMENT BOARD TO PANELS ①, ② OR ③
2. USE (2) #10x3/4" S.M.S. LOCATED AT 3" FROM END, AT (2) PER PANEL ①, ② OR ③ TO SECURE PERMABASE™ CEMENT BOARD TO HORIZONTAL TOP AND BOTTOM SLIP TRACK AND USE #10x3/4" S.M.S. STARTING AT 6" FROM ENDS OF PERMABASE, AND AT 6" o.c Max. TO SECURE PERMABASE™ CEMENT BOARD TO GALVANIZED STEEL PANELS AT EVERY HORIZONTAL OR VERTICAL JOINT BETWEEN PANELS. SEE DETAILS 1/4A, 2/4A Y 3/4A.
3. APPLY ACROCRETE BASE COAT AND EMBED 9 1/4" WIDE FIBERGLASS MESH INTO THE WET ACROCRETE BASE COAT OVER EVERY HORIZONTAL OR VERTICAL JOINT BETWEEN PANELS. A PERIOD OF 24 HOURS SHALL LAPSE BETWEEN THE INSTALLATION OF THE JOINT MESH AND THE ACRODRIY LEVELING COAT.
4. APPLY ACROCRETE BASE COAT LEVELING COAT USING 1/2"x1/2" STAINLESS STEEL NOTCHED TROWEL WITH 1 1/2" SPACE BETWEEN NOTCHES TO THE ENTIRE SURFACE OF BOARD AT A UNIFORM THICKNESS. A PERIOD OF 24 HOURS SHALL LAPSE BEFORE INSTALLING THE FINISH COAT.
5. FINISH WALL USING A STAINLESS STEEL TROWEL, APPLY AND LEAVE A COAT OF TROWEL FINISHES EFFECT OR SAND EFFECT TO A UNIFORM THICKNESS, APPROXIMATELY 1 TO 1 1/2 TIMES THE LARGEST AGGREGATE. THE TEXTURE IS ACHIEVED BY UNIFORM HAND MOTION AND TYPE OF TOOL USED. MAINTAIN WET EDGE FOR UNIFORMITY OF COLOR AND TEXTURE. A TIGHT COAT OF ACROCRETE FINISH SHALL BE APPLIED CONTINUOUSLY, TO A THICKNESS NOT GREATER THAN THE LARGEST AGGREGATES. A WET EDGE SHALL BE MAINTAINED. LEVELING AND TEXTURING SHALL TAKE PLACE IN ONE OPERATION. ACROCRETE FINISH DRYING TIME IS 24 HOURS. OVERALL AVERAGE THICKNESS OF ACROCRETE FINISH IS 3/16".
6. GLASS FIBER OR SAFB BLANKET INSULATION MAY BE INSERTED IN THE WALL CAVITY FOR BETTER THERMAL AND SOUND PERFORMANCE.
7. THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS DRAWING SHALL BE STRICTLY ADHERED TO AND A COPY OF THESE INSTRUCTIONS SHALL BE AVAILABLE AT ALL TIMES ON THE JOB SITE DURING INSTALLATION.
8. THE INSTRUCTIONS WITHIN THIS DRAWING GOVERN IF THERE ARE ANY CONFLICTS BETWEEN THE MANUFACTURER'S INSTRUCTIONS AND THIS DRAWING.

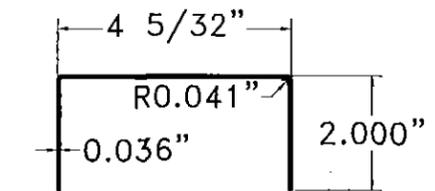
Approved as complying with the Florida Building Code
 Date 05/12/2016
 NOAB 16-2114.05
 Miami Dade Product Control
 By *[Signature]*



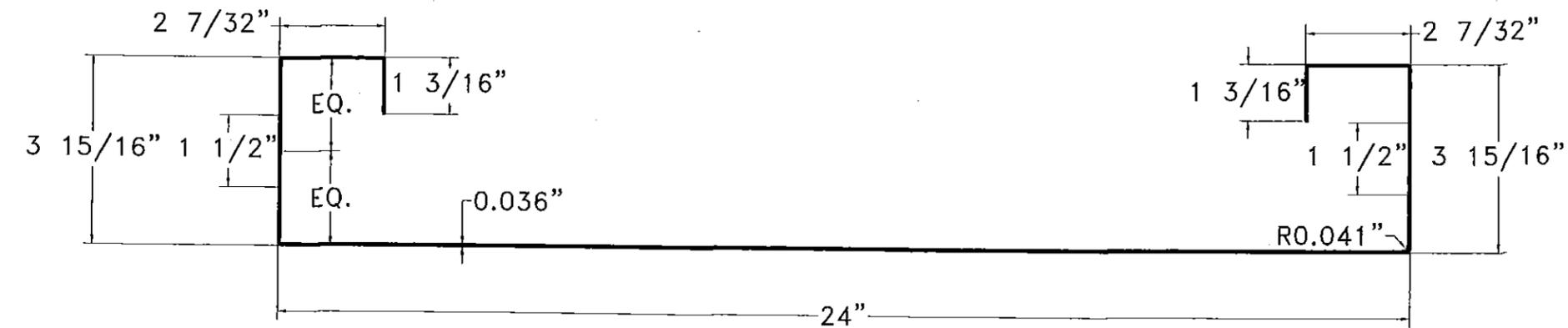
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)					
©2015 TILTECO, INC.			QH-610 (EXTERIOR OR PARTITION), WALL PANEL SYSTEM		DRAWN BY F.R.L.
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tillitco@aol.com EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			QUICK HOUSE U.S.A., LLC. 11860 WEST STATE ROAD 84, # B13 DAVIE, FL. 33325 PH:954-870-6366 PH:954-870-6367		11/23/15 DATE
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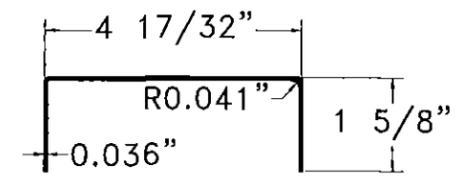
① PANEL QH-610
(EXTERIOR OR PARTITION)



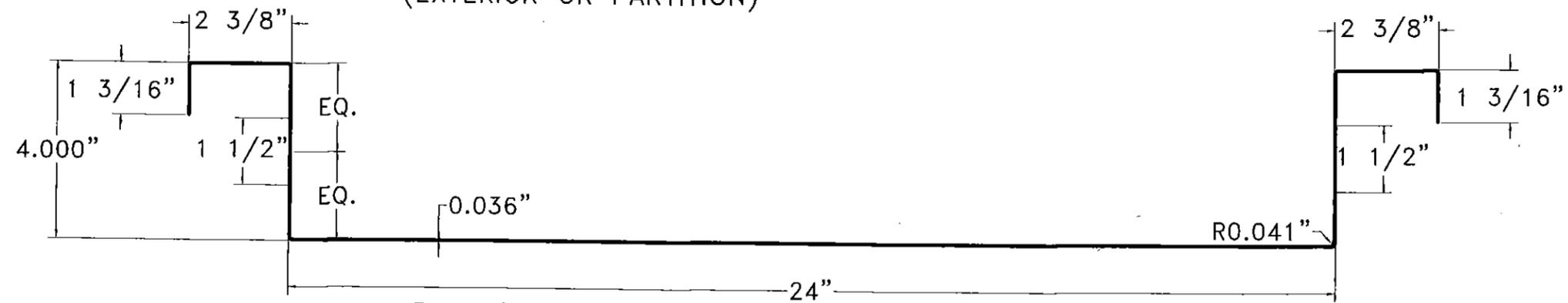
④ TOP AND BOTTOM TRACK QH"U"



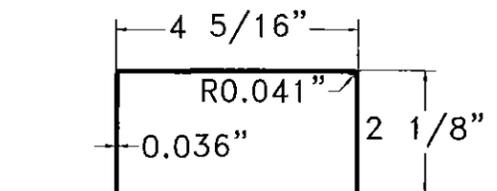
② END PANEL QH-610-A
(EXTERIOR OR PARTITION)



⑨ VERTICAL JOINT TRACK QH"U"A



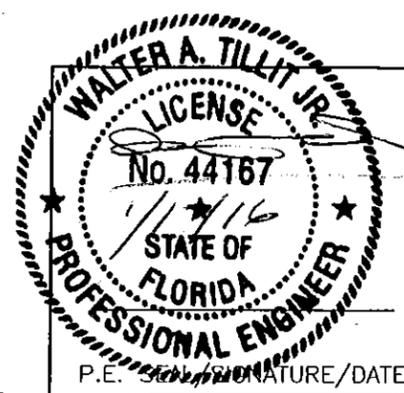
③ PANEL QH-610-B
(EXTERIOR OR PARTITION)



⑩ TOP REINFORCING TRACK QH"U"B

COMPONENTS

Approved as complying with the
Florida Building Code
Date: 05/12/2016
NOA# 16-0114.05
Miami Trade Product Control
By: *[Signature]*



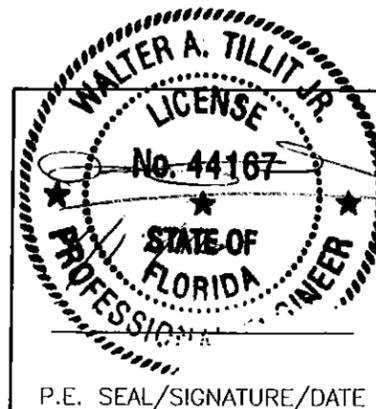
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)					
©2015 TILTECO, INC			QH-610 (EXTERIOR OR PARTITION), WALL PANEL SYSTEM		DRAWN BY F.R.L.
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			QUICK HOUSE U.S.A., LLC. 11860 WEST STATE ROAD 84, # B13 DAVIE, FL. 33325 PH:954-870-6366 PH:954-870-6367		11/23/15 DATE
					15-239 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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					SHEET 3 OF 16

BILL OF MATERIALS

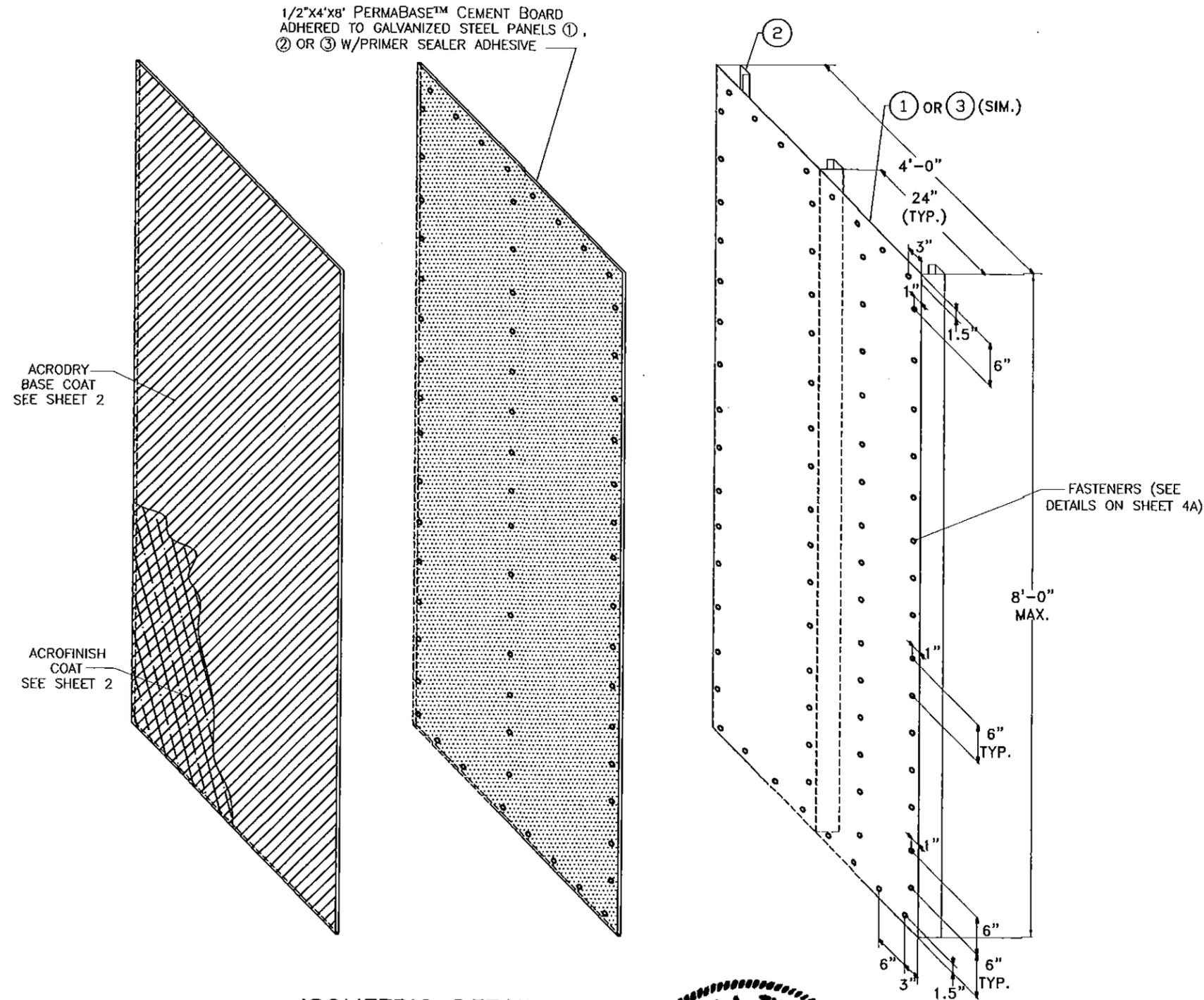
COMPONENT #	DESCRIPTION	MATERIAL	REMARKS
①	PANEL QH-610	ASTM A-653 GRADE 50	G-90 GALVANIZED FULL HEIGHT PANEL
②	END PANEL QH-610-A	ASTM A-653 GRADE 50	G-90 GALVANIZED FULL HEIGHT PANEL
③	PANEL QH-610-B	ASTM A-653 GRADE 50	G-90 GALVANIZED SHORT PANEL
④	TOP AND BOTTOM TRACK QH"U"	ASTM A-653 GRADE 50	G-90 GALVANIZED
⑤	5/16"Øx3/4" M.S. W/ NUT	ZINC PLATED STEEL	MIN. Fy=33Ksi STL
⑥	#10x1/2" F.H. SDS	STEEL	SELF DRILLING SCREWS
⑦	3/8"Øx3" WEDGE BOLT	STEEL	POWER FASTENERS INC, W/ 3"MIN. EMBEDMENT INTO CONCRETE
⑨	VERTICAL JOINT TRACK QH"U"A	ASTM A-653 GRADE 50	G-90 GALVANIZED
⑩	TOP REINFORCING TRACK QH"U"B	ASTM A-653 GRADE 50	G-90 GALVANIZED *
⑪	INTERIOR CORNER QH"L", 2" LONG	ASTM A-653 GRADE 50	G-90 GALVANIZED
⑫	TOP TRACK CORNER CONNECTION QH"L", 3 3/4" LONG	ASTM A-653 GRADE 50	G-90 GALVANIZED

* ONLY REQ'D W/ QH-610 EXTERIOR WALL PANEL.

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Date 05/12/2016
NOA# 16-0114.05
Miami Dade Product Control
By *[Signature]*

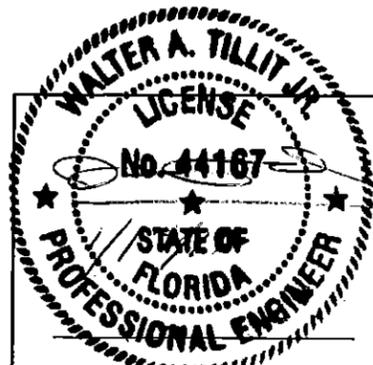


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 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1630 Fax: (305)871-1631 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			QUICK HOUSE U.S.A., LLC. 11860 WEST STATE ROAD 84, # B13 DAVIE, FL. 33325 PH:954-870-6366 PH:954-870-6367		11/23/15 DATE
			15-239 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		



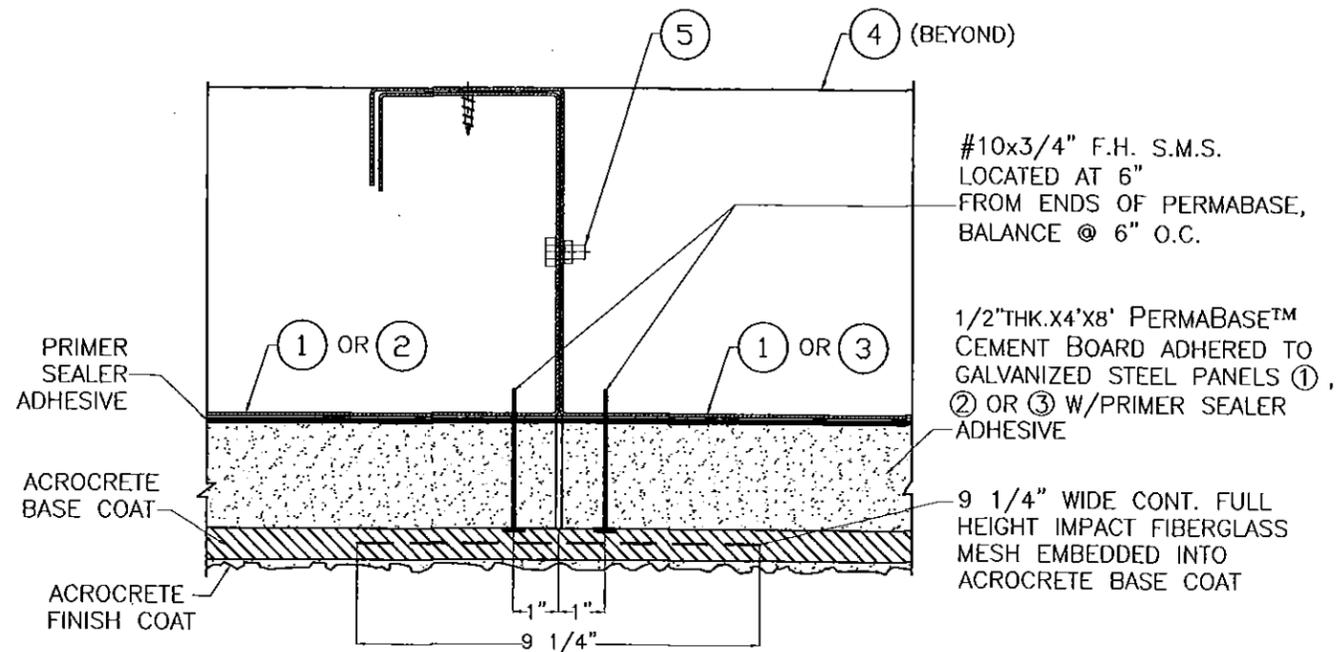
**ISOMETRIC DETAIL
FOR PANEL ASSEMBLY**

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NOAP 16-0114.05
Miami Dade Product Control
By [Signature]

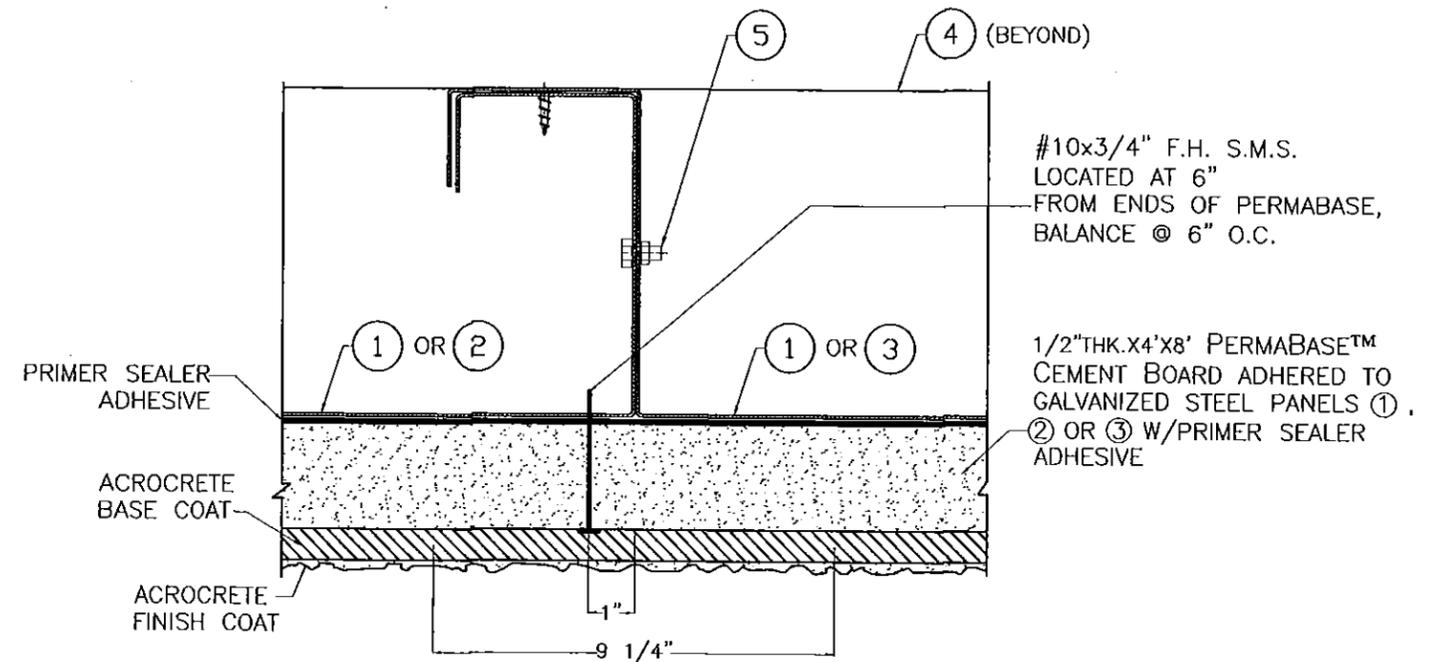


P.E. SEAL/SIGNATURE/DATE

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		

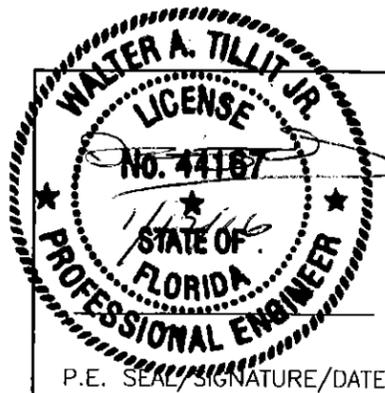


DETAIL 1: TYPICAL SEALING & FASTENING AT VERTICAL JOINT BETWEEN PERMABASE PANELS*

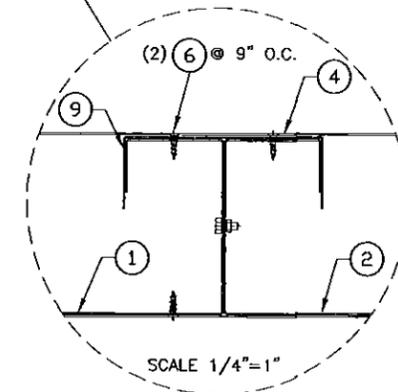
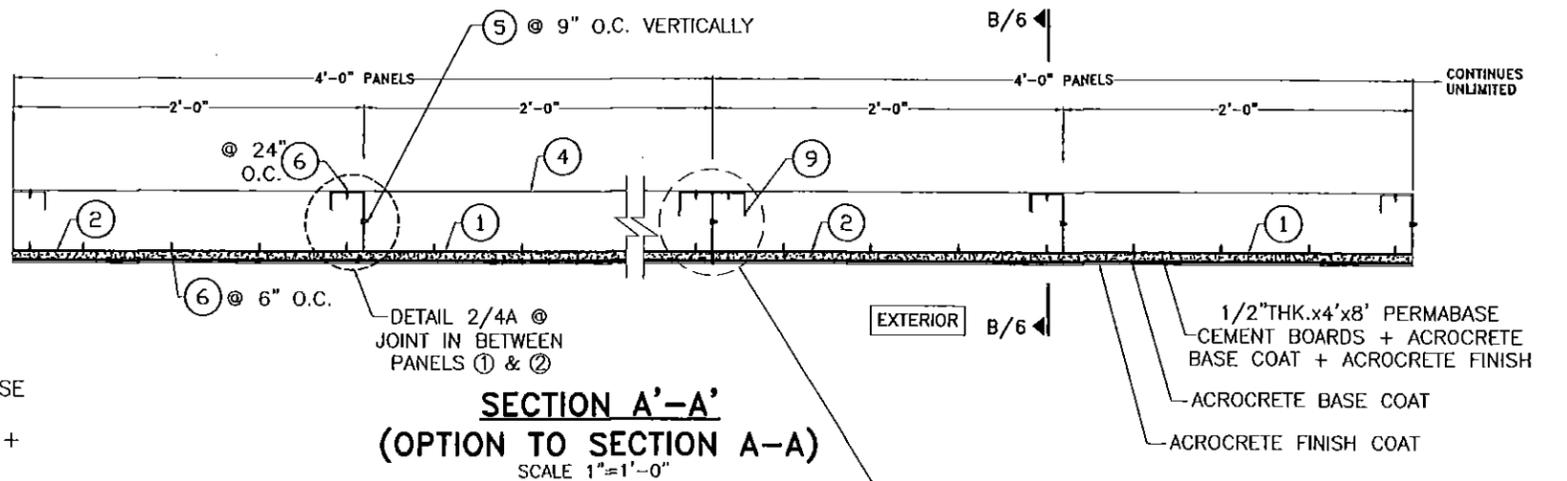
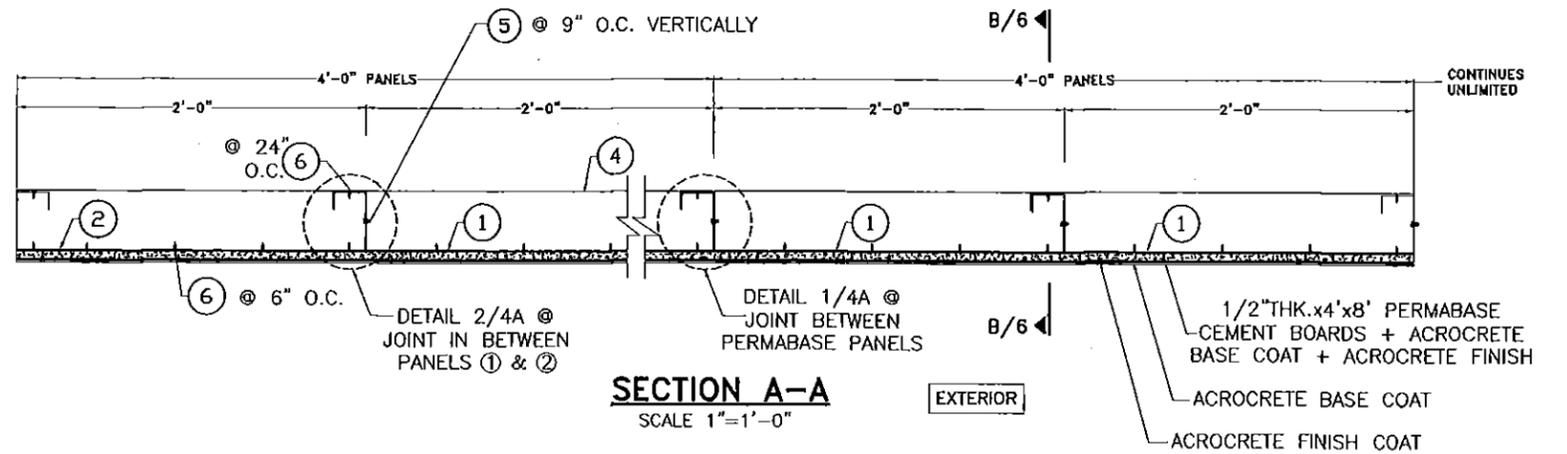
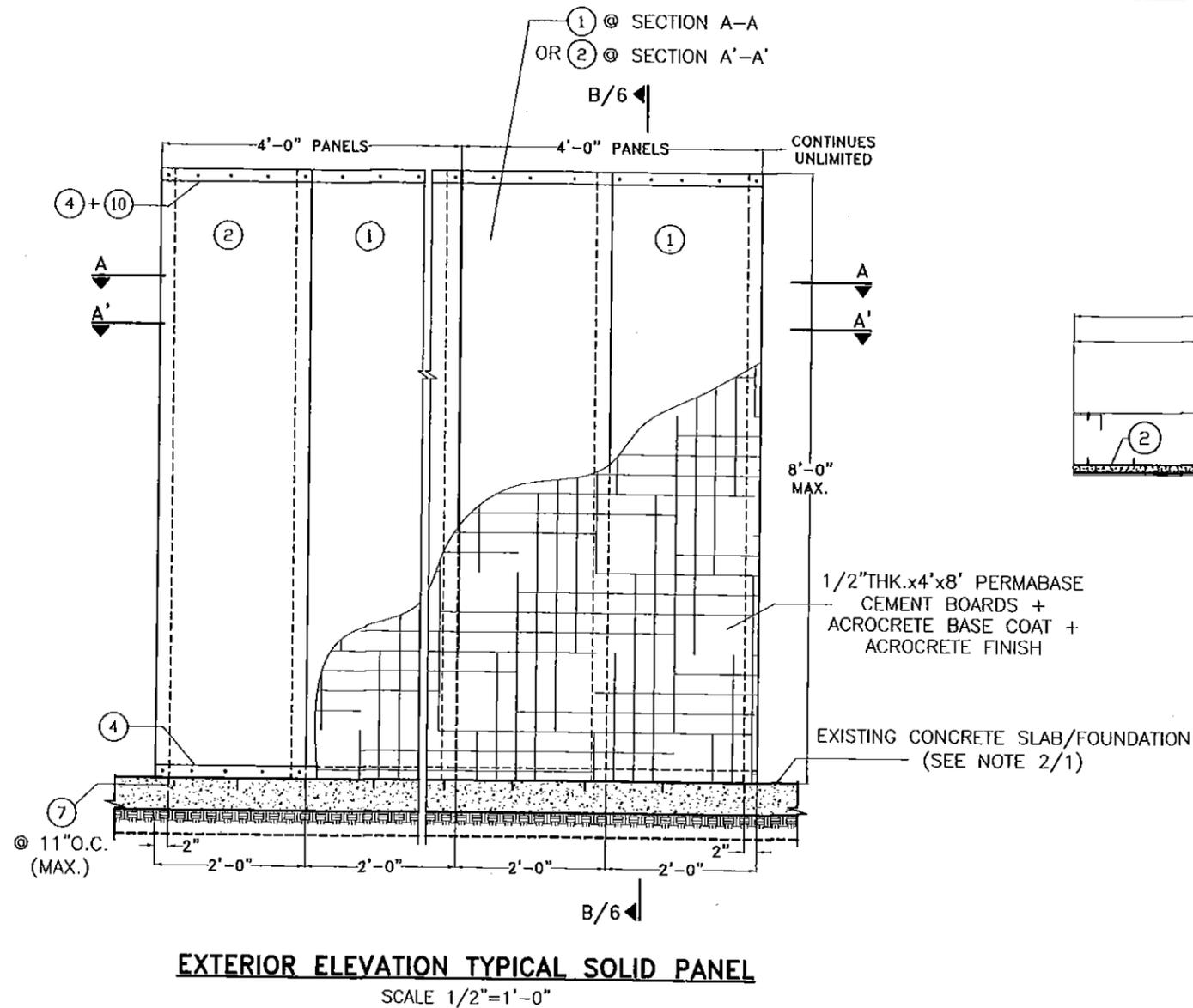


DETAIL 2: TYPICAL SEALING AT JOINT BETWEEN PANELS ①, ② OR ③ *

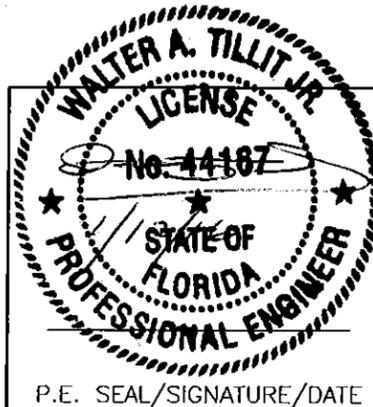
Approved as complying with the Florida Building Code
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 NOAP 16-0114-03
 Miami Dept. Product Control
 By [Signature]



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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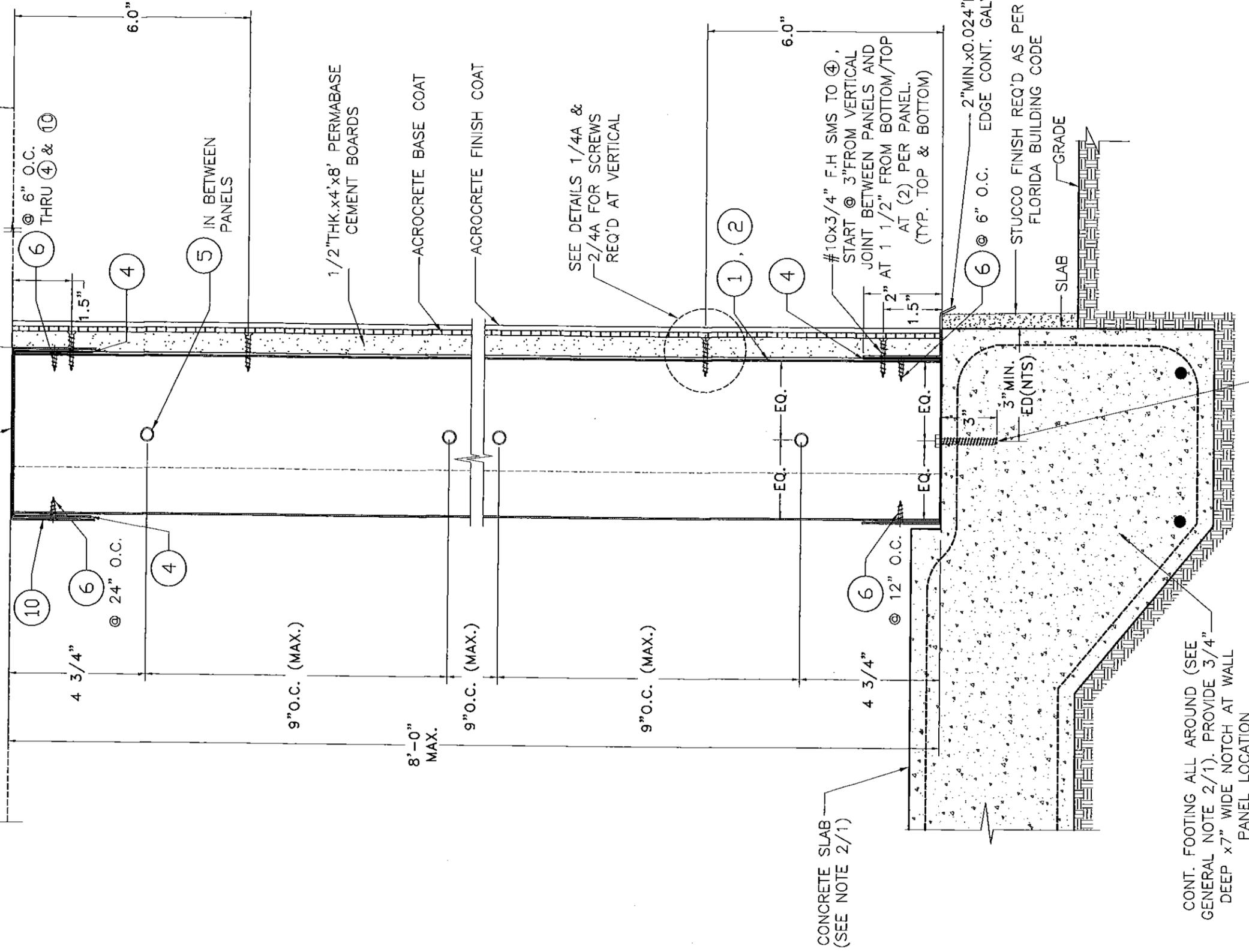


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NOAA 16-0114 DS
Miami Dept. Product Control
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			15-239 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		

SEE NOTE 8/1 FOR ROOF CONNECTION SPECS.



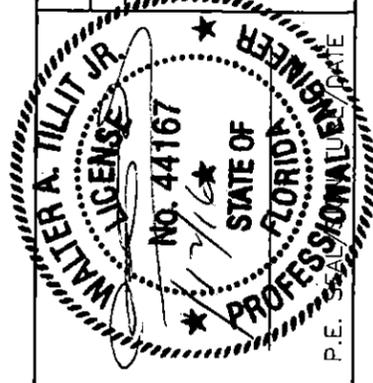
SEE DETAILS 1/4A & 2/4A FOR SCREWS REQ'D AT VERTICAL

CONCRETE SLAB (SEE NOTE 2/1)

CONT. FOOTING ALL AROUND (SEE GENERAL NOTE 2/1). PROVIDE 3/4" DEEP x 7" WIDE NOTCH AT WALL PANEL LOCATION

SECTION B-B
SCALE 3/8"=1'

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Miami Dept. Product Control
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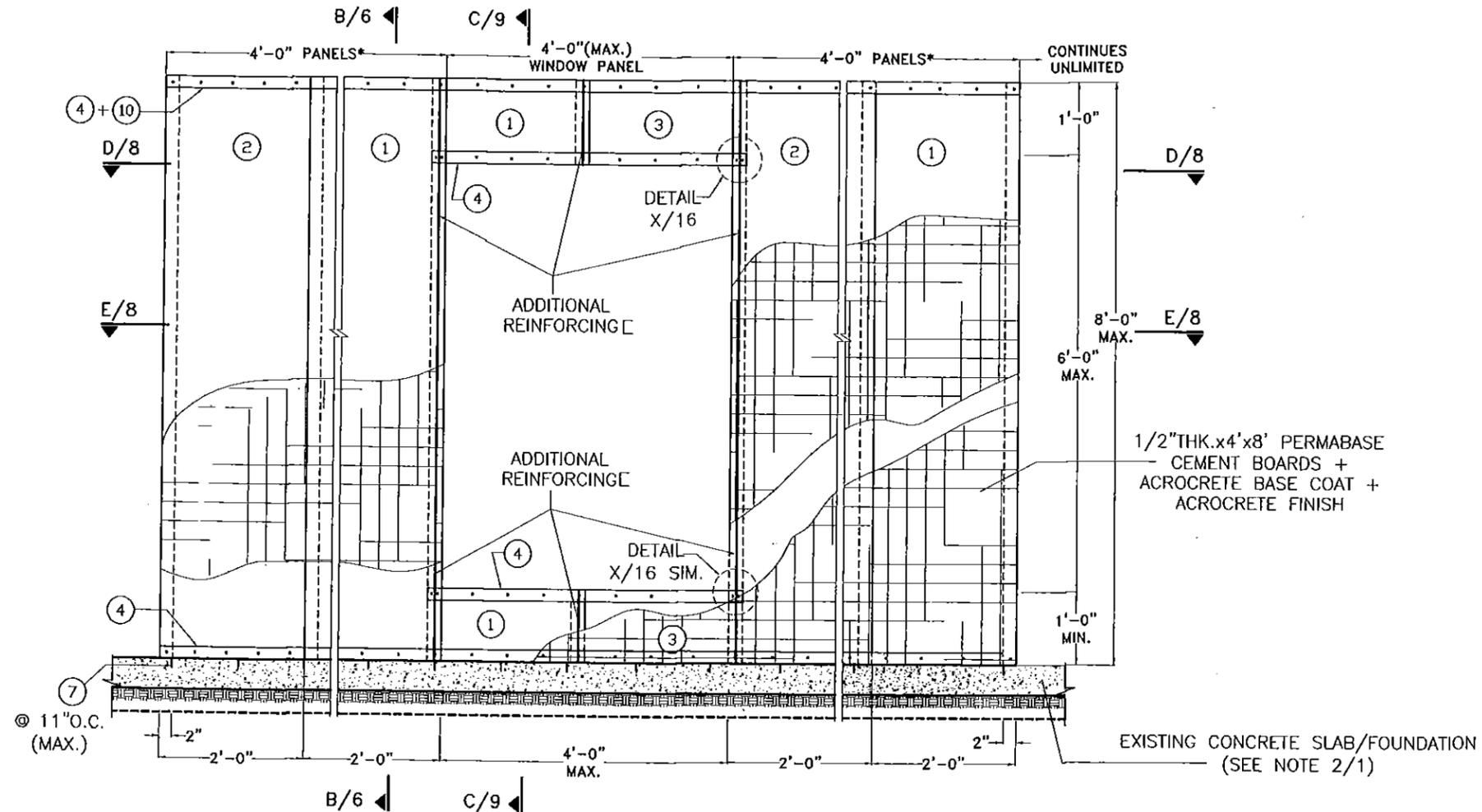
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EB-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

QH-610 (EXTERIOR OR PARTITION), WALL PANEL SYSTEM

QUICK HOUSE U.S.A., LLC.
11860 WEST STATE ROAD 84, # B13
DAVIE, FL 33325
PH:954-870-6366 PH:954-870-6367

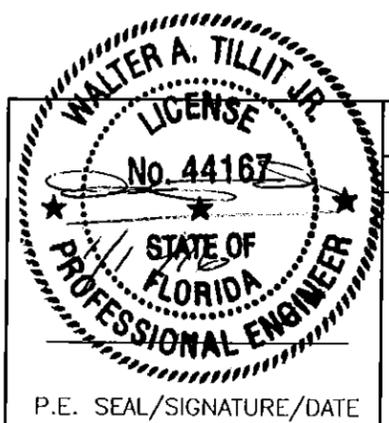
DRAWN BY	F.R.L.
DATE	11/23/15
DRAWING No	15-239
SHEET	6 OF 16



**EXTERIOR ELEVATION TYPICAL PARTIALLY SOLID
PANEL AT WINDOWS**
SCALE 1/2"=1'-0"

* PROVIDE MIN. (1) 4'-0"
WIDE PANEL @ WINDOW JAMB

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NOA# 16-0114-05
Miami Dept. Product Control
By *[Signature]*



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FLORIDA Lic. # 44167

QH-610 (EXTERIOR OR PARTITION),
WALL PANEL SYSTEM

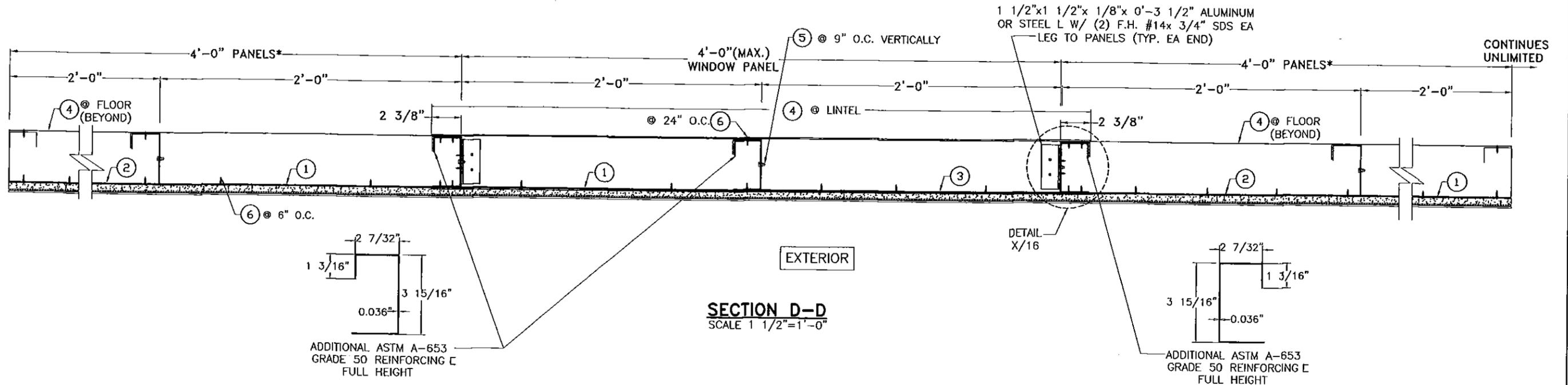
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DAVIE, FL. 33325
PH:954-870-6366 PH:954-870-6367

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F.R.L.

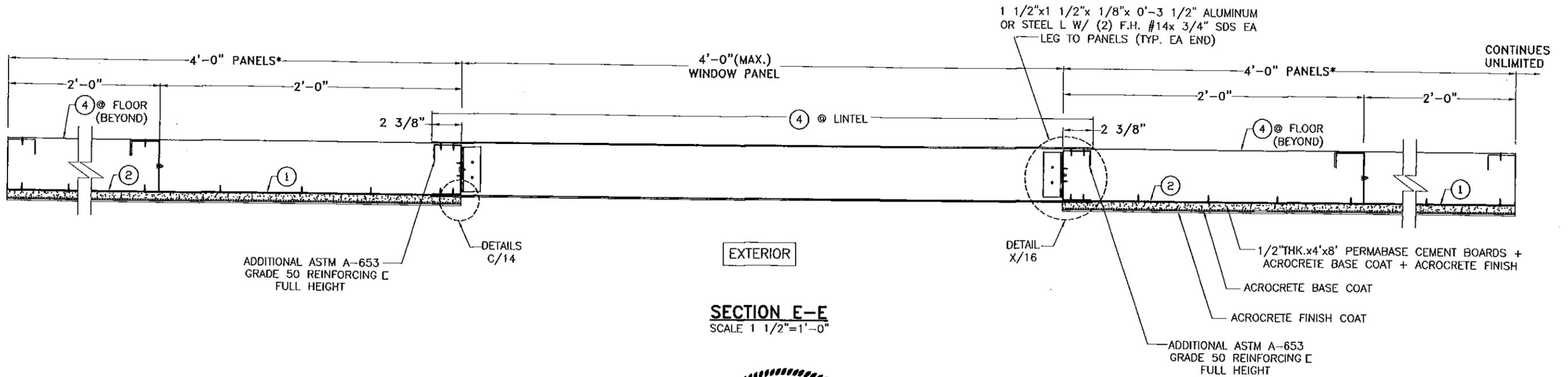
11/23/15
DATE

15-239
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		



SECTION D-D
SCALE 1 1/2"=1'-0"



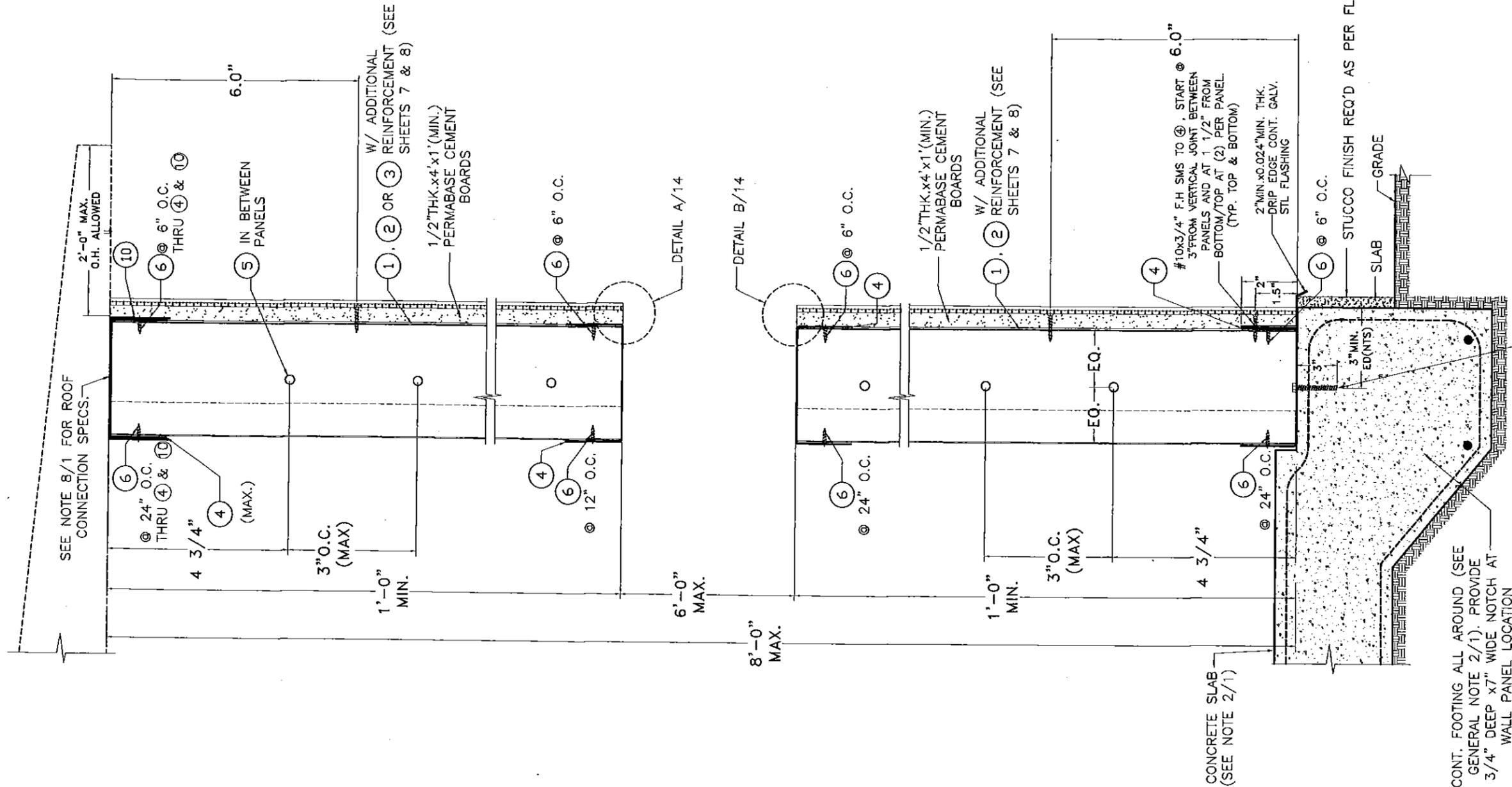
SECTION E-E
SCALE 1 1/2"=1'-0"

* PROVIDE MIN. (1) 4'-0" WIDE PANEL @ WINDOW JAMB

Approved as complying with the Florida Building Code
Date 05/12/2016
NOAH 16-0114-05
Miami Dade Product Control
By *[Signature]*



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			<p>11/23/15 DATE</p> <p>15-239 DRAWING No</p>			<p>SHEET 8 OF 16</p>
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
1			3			
2			4			



SEE NOTE 8/1 FOR ROOF CONNECTION SPECS. 2'-0" MAX. O.H. ALLOWED

⑥ @ 24" O.C. THRU ④ & ⑩
 4 3/4" (MAX.)
 ④ (MAX.)
 3" O.C. (MAX)
 1'-0" MIN.
 ⑤ IN BETWEEN PANELS
 6.0"
 ⑥ @ 6" O.C. THRU ④ & ⑩
 ⑥ @ 6" O.C.
 ④
 ⑥ @ 12" O.C.
 6'-0" MAX.
 DETAIL A/14

W/ ADDITIONAL REINFORCEMENT (SEE SHEETS 7 & 8)

1/2" THK. x 4' x 1' (MIN.) PERMABASE CEMENT BOARDS

DETAIL B/14

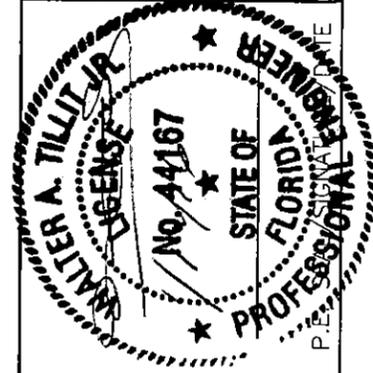
8'-0" MAX.
 1'-0" MIN.
 3" O.C. (MAX)
 4 3/4"
 ⑥ @ 24" O.C.
 ④
 ⑥ @ 6" O.C.
 ④
 ⑥ @ 6" O.C.
 1/2" THK. x 4' x 1' (MIN.) PERMABASE CEMENT BOARDS
 W/ ADDITIONAL REINFORCEMENT (SEE SHEETS 7 & 8)
 ④
 #10x3/4" F.H SMS TO ④, START @ 6.0" 3" FROM VERTICAL JOINT BETWEEN PANELS AND AT 1 1/2" FROM BOTTOM/TOP AT (2) PER PANEL (TYP. TOP & BOTTOM)
 2" MIN. x 0.024" MIN. THK. DRIP EDGE CONT. GALV. STL FLASHING
 2"
 1.5"
 ⑥ @ 6" O.C.
 STUCCO FINISH REQ'D AS PER FLORIDA BUILDING CODE
 SLAB
 GRADE

CONCRETE SLAB (SEE NOTE 2/1)

CONT. FOOTING ALL AROUND (SEE GENERAL NOTE 2/1). PROVIDE 3/4" DEEP x 7" WIDE NOTCH AT WALL PANEL LOCATION

SECTION C-C
 SCALE 1/4"=1'

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 Date 05/12/2016
 NOA# 16-0114-05
 Miami District Product Counsel
 By *[Signature]*



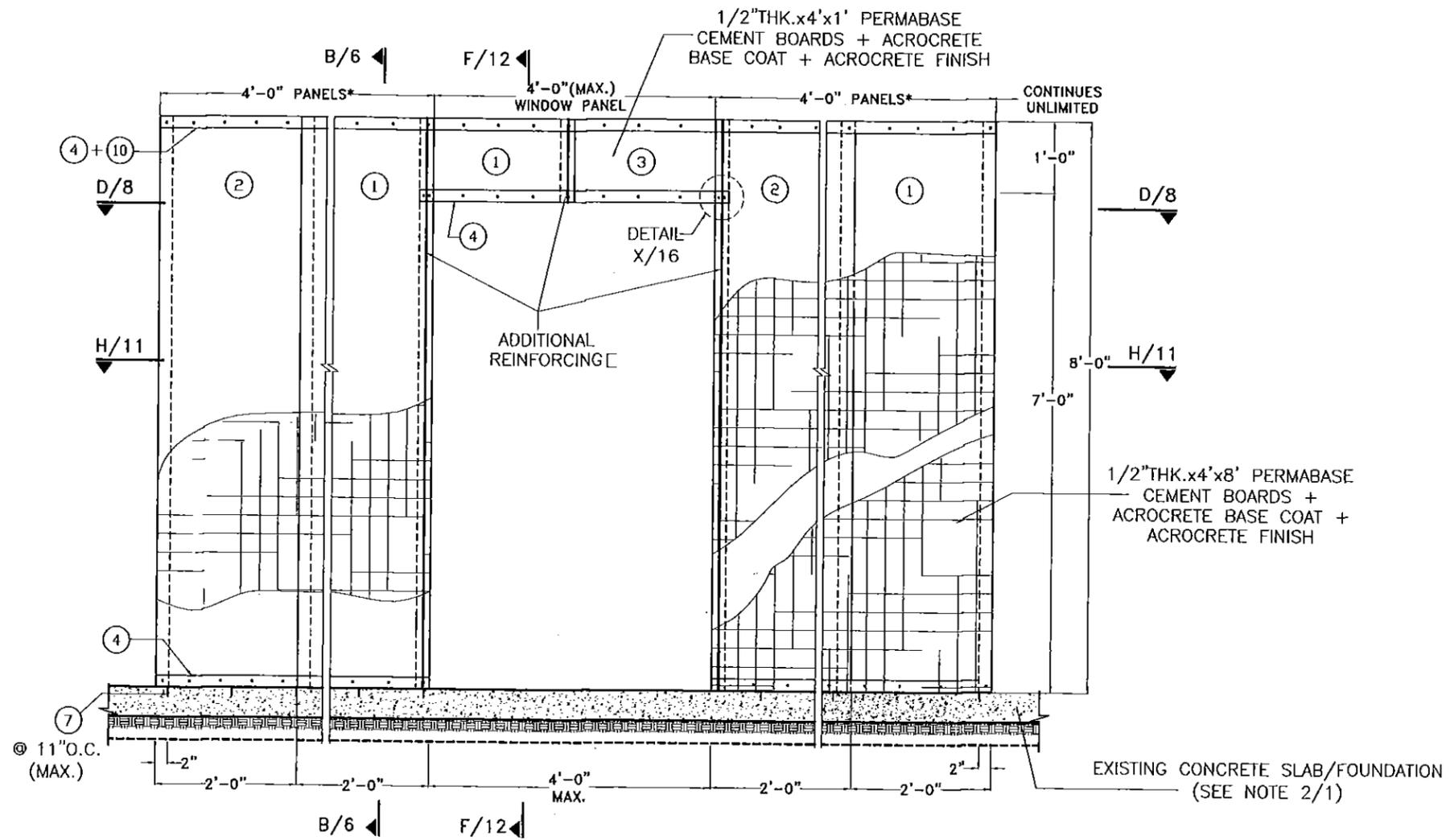
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 Phone : (905)971-1530 , Fax : (905)971-1531
 e-mail: titeco@titeco.com
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 WALTER A. TILLIT JR. P.E.
 FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

QH-610 (EXTERIOR OR PARTITION), WALL PANEL SYSTEM

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 DATE 11/23/15
 DRAWING No 15-239
 SHEET 9 OF 16

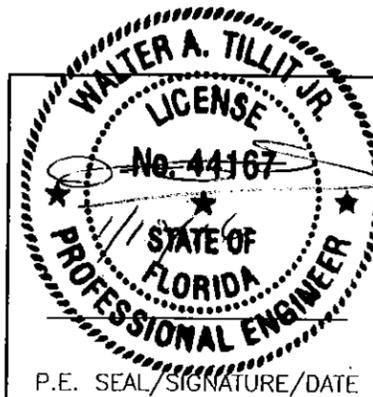


EXTERIOR ELEVATION TYPICAL DOOR PANEL

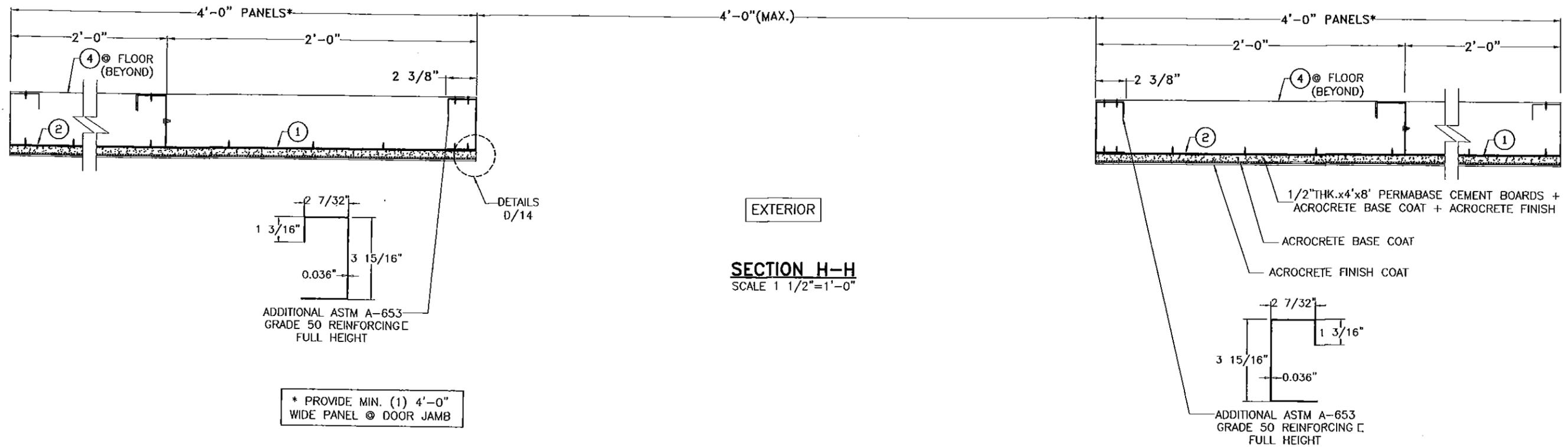
SCALE 1/2"=1'-0"

* PROVIDE MIN. (1) 4'-0" WIDE PANEL @ DOOR JAMB

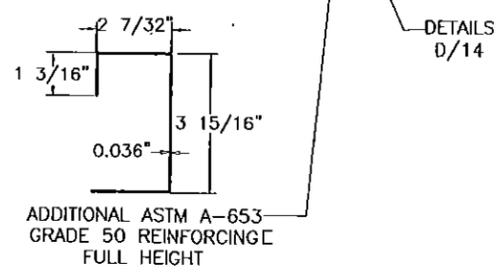
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 NOAS 16-0114-05
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			QUICK HOUSE U.S.A., LLC. 11860 WEST STATE ROAD 84, # B13 DAVIE, FL. 33325 PH:954-870-6366 PH:954-870-6367		15-239 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

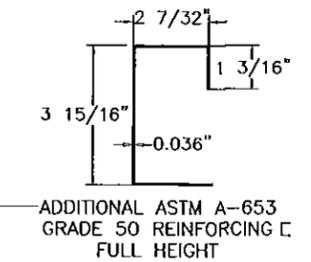


EXTERIOR
SECTION H-H
SCALE 1 1/2"=1'-0"



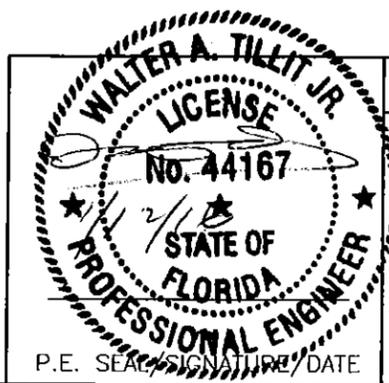
ADDITIONAL ASTM A-653
GRADE 50 REINFORCING E
FULL HEIGHT

* PROVIDE MIN. (1) 4'-0"
WIDE PANEL @ DOOR JAMB



ADDITIONAL ASTM A-653
GRADE 50 REINFORCING E
FULL HEIGHT

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QH-610 (EXTERIOR OR PARTITION),
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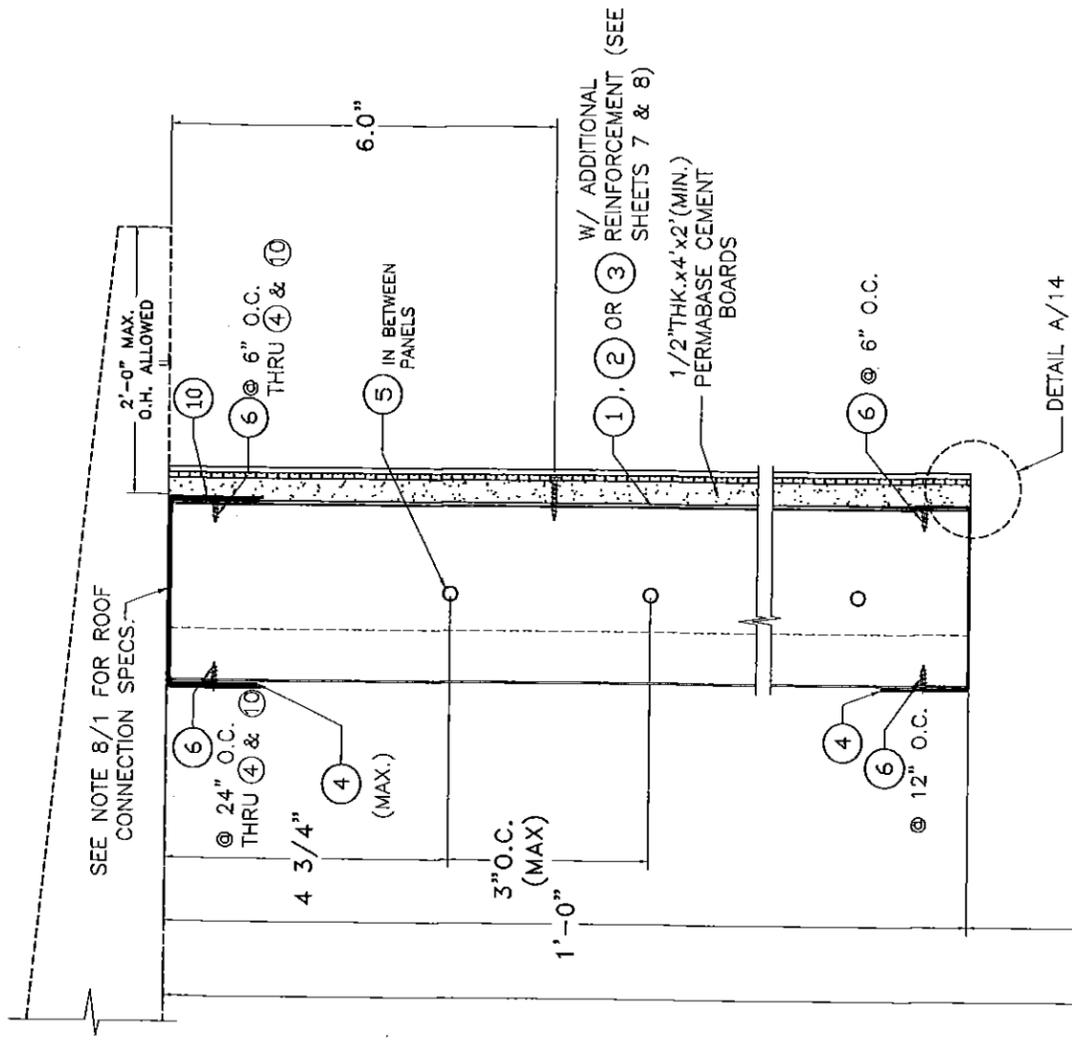
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11/23/15
DATE

15-239
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		



SEE NOTE B/1 FOR ROOF CONNECTION SPECS. 2'-0" MAX. O.H. ALLOWED

⑥ @ 24" O.C. THRU ④ & ⑩

④ @ 12" O.C.

⑤ IN BETWEEN PANELS

④ (MAX.)

⑥ @ 6" O.C. THRU ④ & ⑩

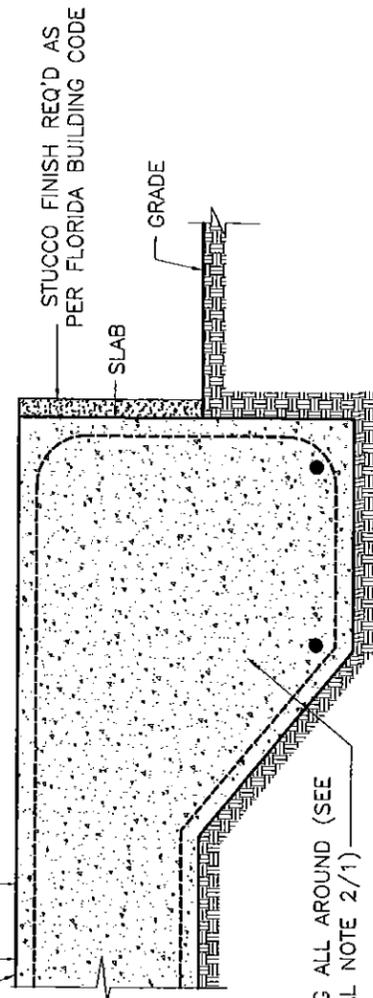
W/ ADDITIONAL REINFORCEMENT (SEE SHEETS 7 & 8)
1/2" THK. x 4' x 2' (MIN.) PERMABASE CEMENT BOARDS

DETAIL A/14

8'-0"

7'-0"

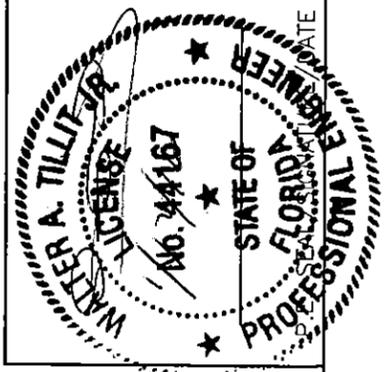
CONCRETE SLAB (SEE NOTE 2/1)



CONT. FOOTING ALL AROUND (SEE GENERAL NOTE 2/1)

SECTION F-F
SCALE 1/4"=1'

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Miami Dade Product Control
By: *[Signature]*



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e-mail: tilteco@aol.com

EB-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

QH-610 (EXTERIOR OR PARTITION), WALL PANEL SYSTEM

QUICK HOUSE U.S.A., LLC.
11860 WEST STATE ROAD 84, # B13
DAVIE, FL 33325
PH: 954-870-6366 PH: 954-870-6367

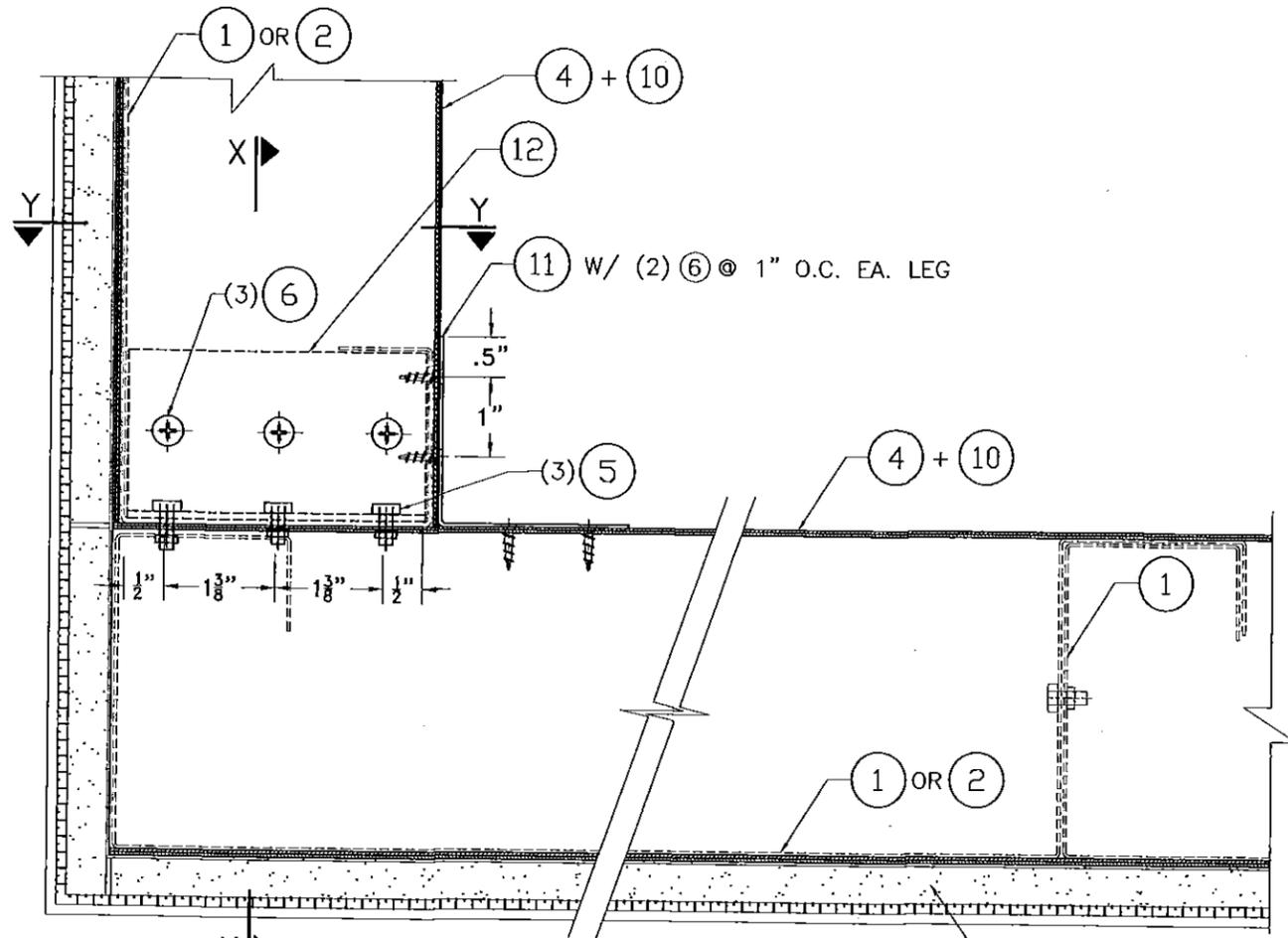
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F.R.L.

DATE
11/23/15

DRAWING No
15-239

SHEET 12 OF 16

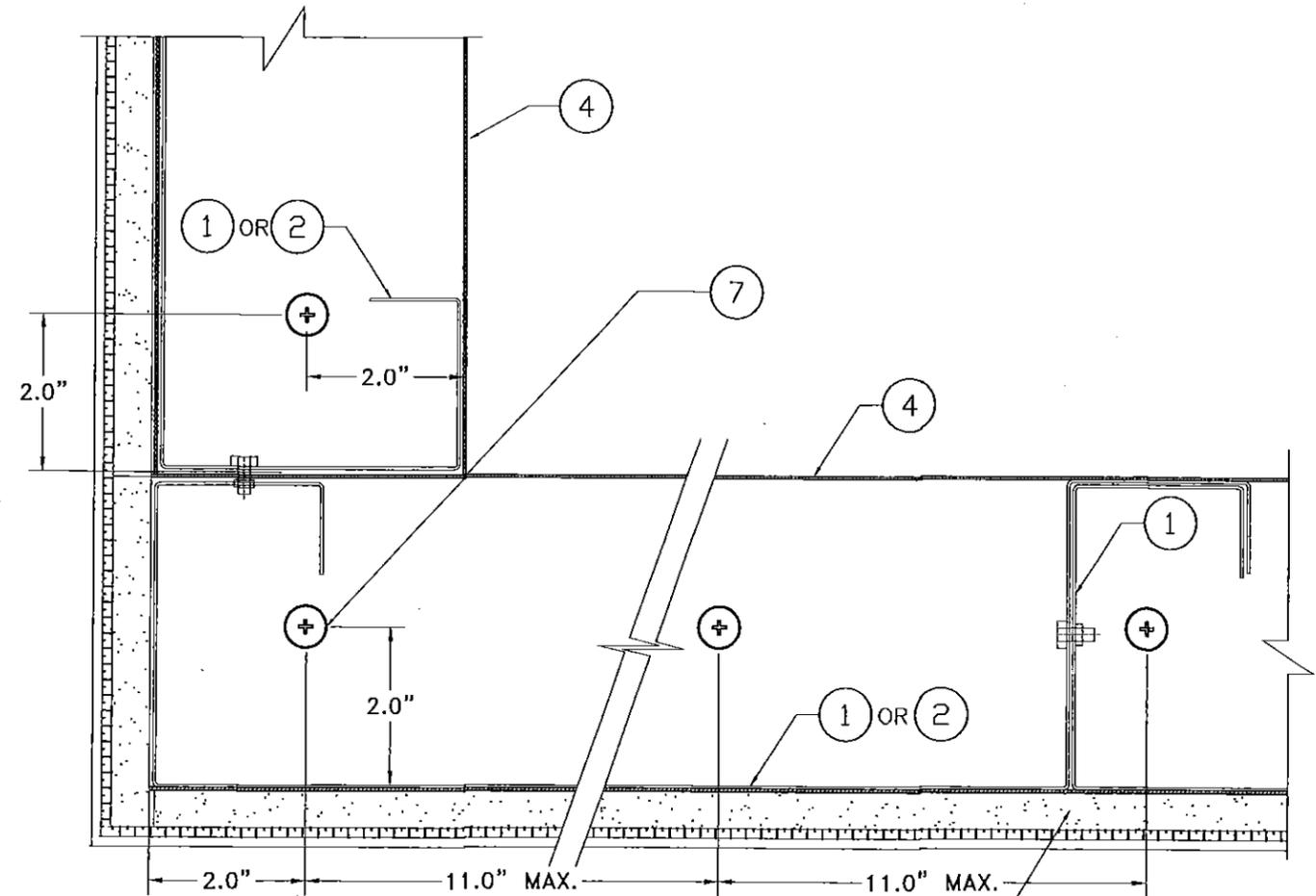
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CORNER DETAIL AT TOP

NTS

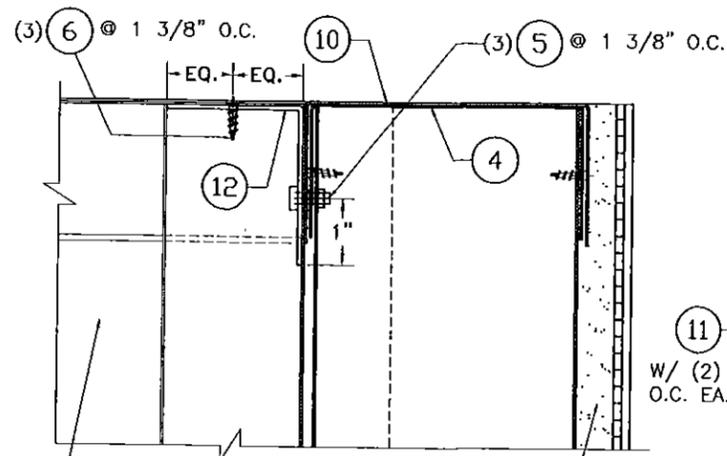
1/2" THK. x 4' x 8' PERMABASE CEMENT BOARDS + ACROCRETE BASE COAT + ACROCRETE FINISH



CORNER DETAIL AT BOTTOM

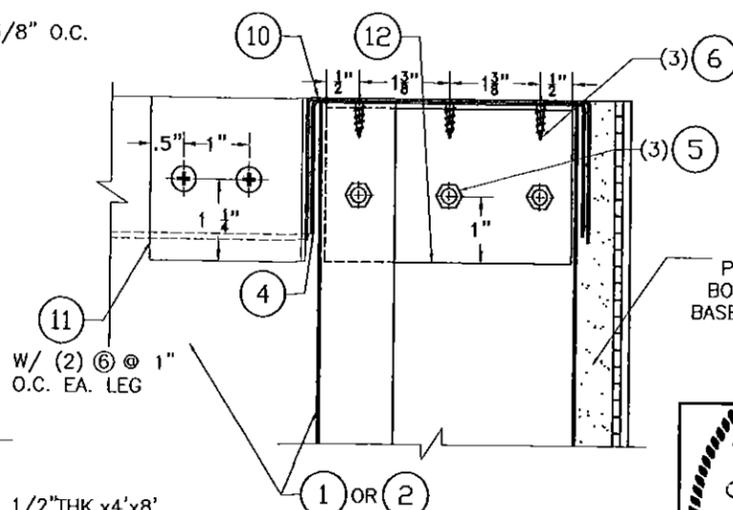
NTS

1/2" THK. x 4' x 8' (MAX.) PERMABASE CEMENT BOARDS + ACROCRETE BASE COAT + ACROCRETE FINISH



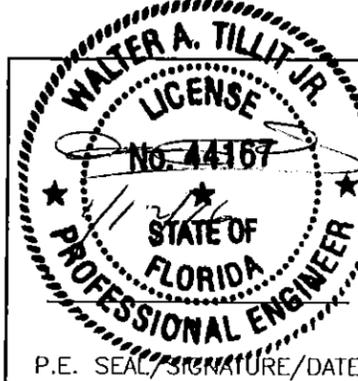
SECTION X-X
SCALE 3/8"=1"

1/2" THK. x 4' x 8' PERMABASE CEMENT BOARDS + ACROCRETE BASE COAT + ACROCRETE FINISH



SECTION Y-Y
SCALE 3/8"=1"

1/2" THK. x 4' x 8' PERMABASE CEMENT BOARDS + ACROCRETE BASE COAT + ACROCRETE FINISH



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Date 05/12/2016
NOAD 16-0119-05
Miami Dade Product Control
By *[Signature]*

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tillitco@aol.com
EB-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

QH-610 (EXTERIOR OR PARTITION), WALL PANEL SYSTEM

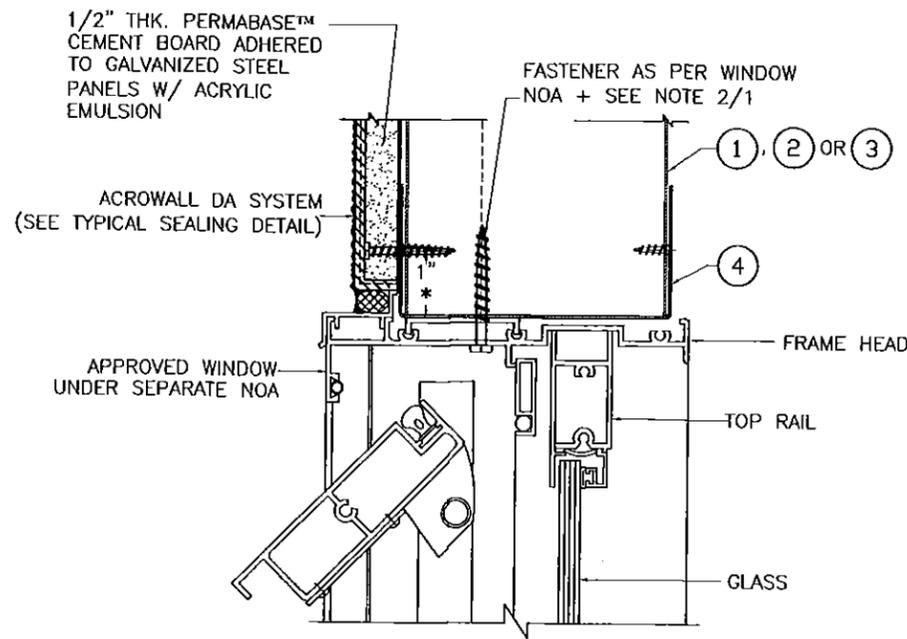
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F.R.L.

QUICK HOUSE U.S.A., LLC.
11860 WEST STATE ROAD 84, # B13
DAVIE, FL. 33325
PH:954-870-6366 PH:954-870-6367

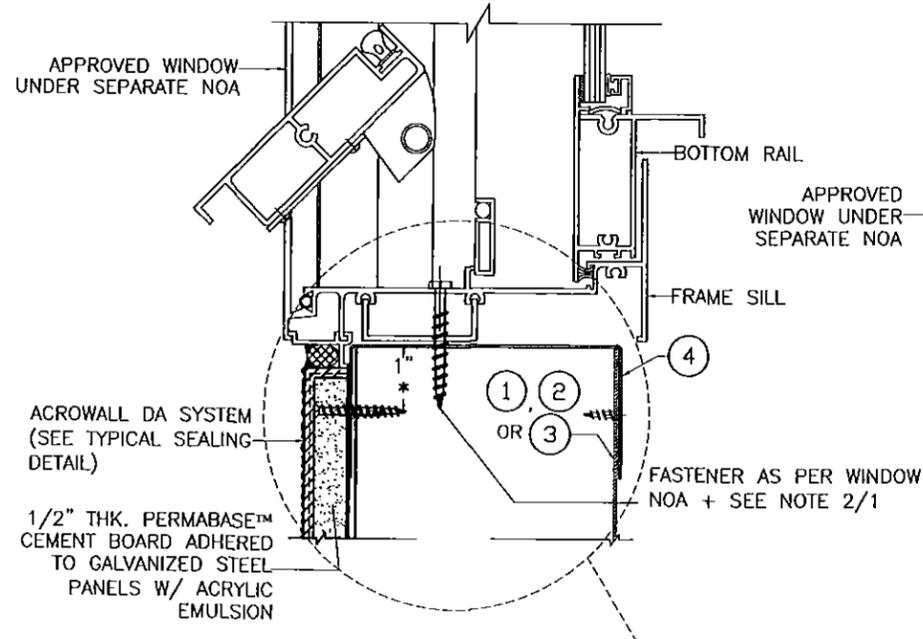
11/23/15
DATE

15-239
DRAWING No

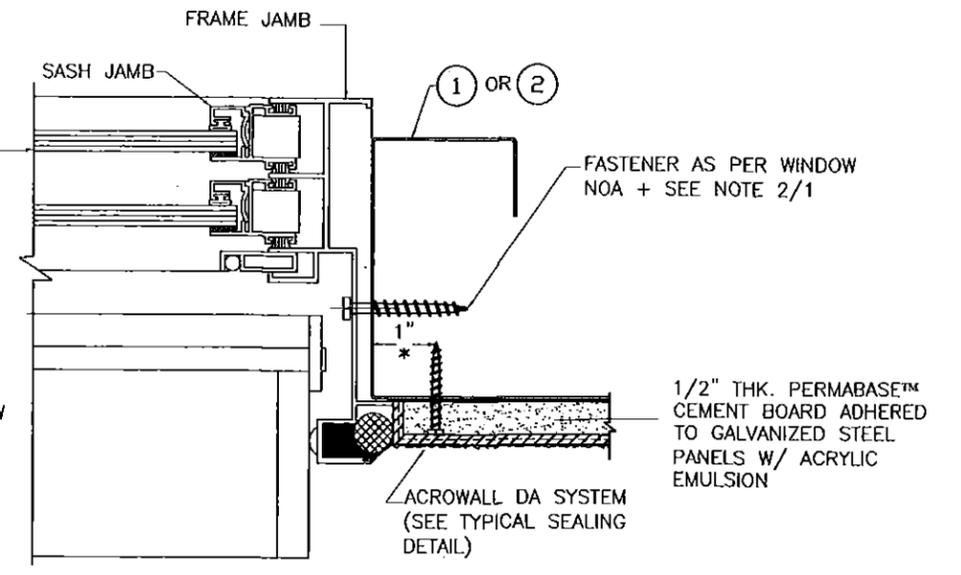
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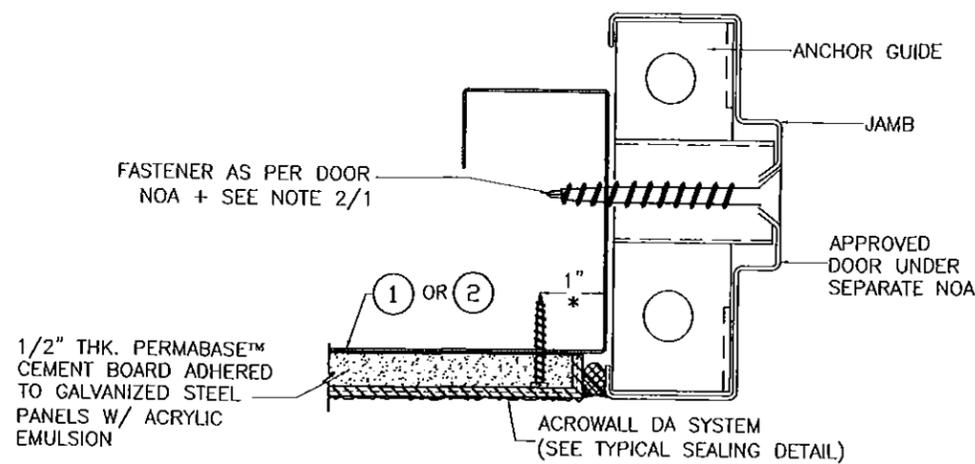
DETAIL A: WINDOW HEAD CONNECTION TO PANEL



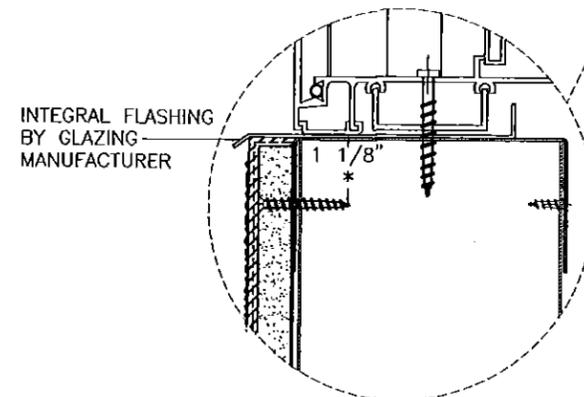
DETAIL B: WINDOW SILL CONNECTION TO PANEL



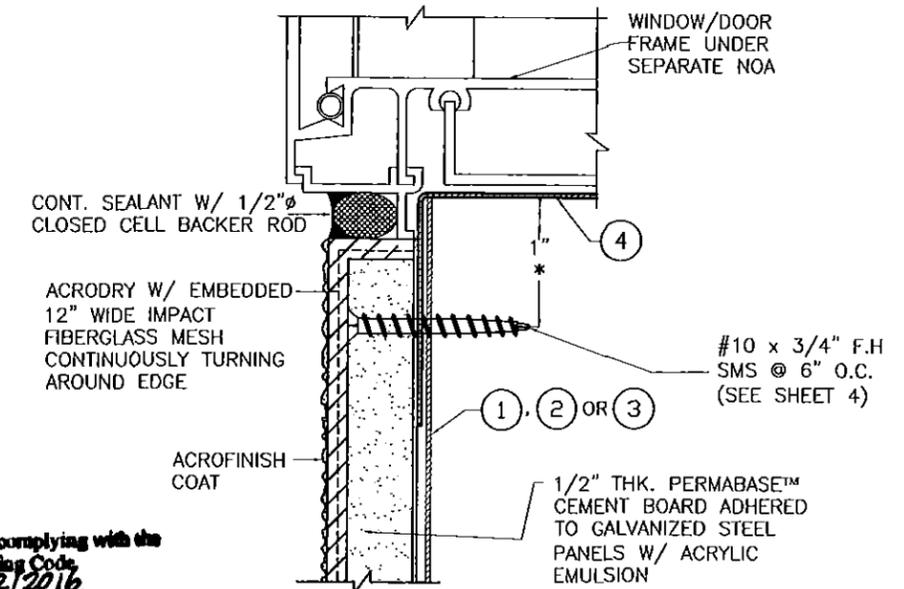
DETAIL C: WINDOW JAMB CONNECTION TO PANEL



DETAIL D: DOOR JAMB CONNECTION TO PANEL



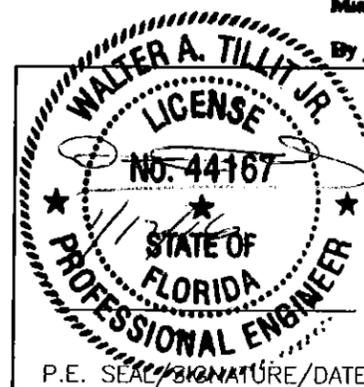
OPTION TO DETAIL B: WINDOW SILL CONNECTION TO PANEL



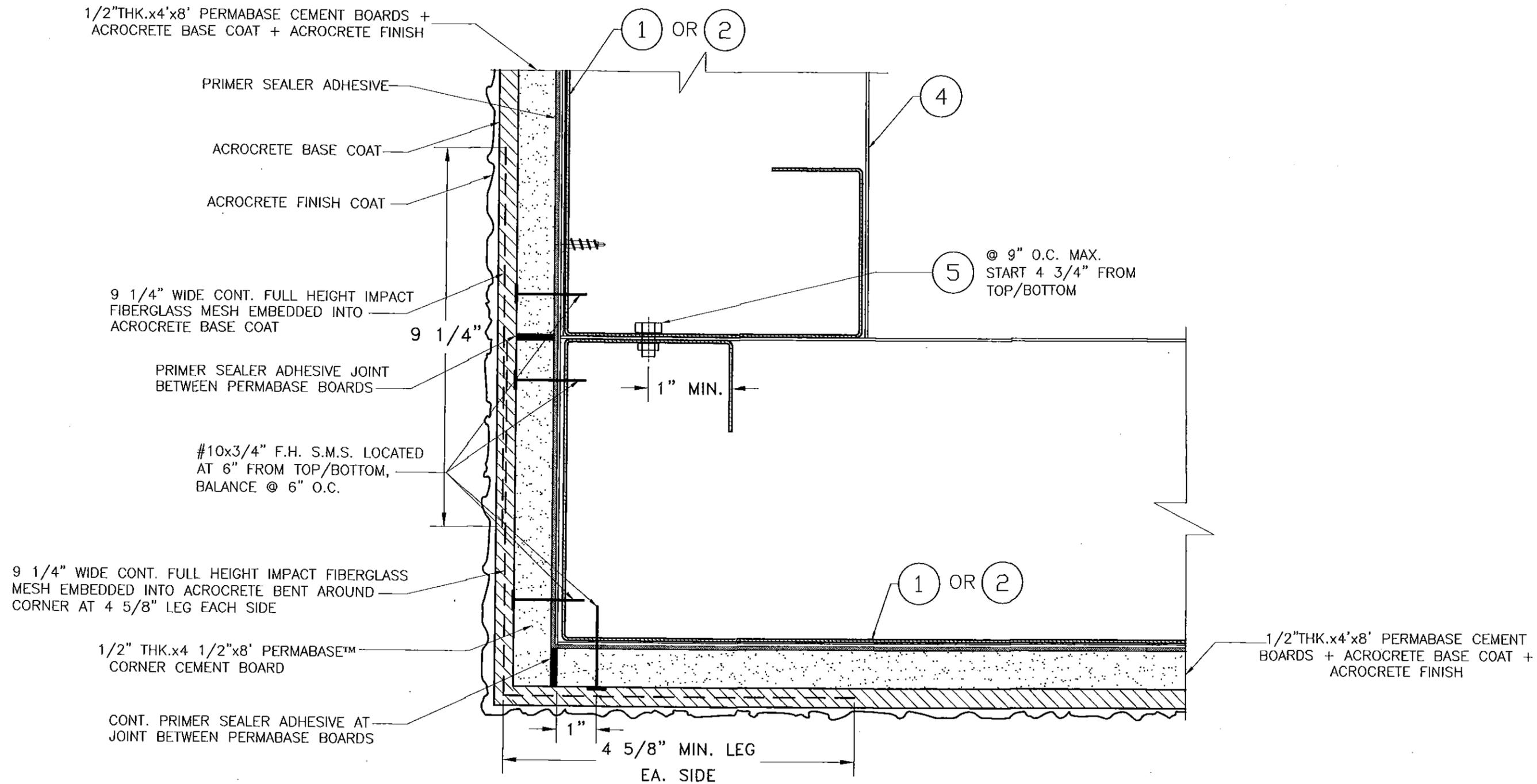
TYPICAL SEALING DETAIL

* #10x3/4" FH SMS USED TO CONNECT (PERMABASE BOARDS) TO PANELS ①, ②, ③ OR TRACK ④ ADJACENT TO WINDOW'S HEADER AND SILL AS WELL AS AT DOOR OR WINDOW JAMB SHALL BE DRIVEN 1" FROM EDGE OF TRACK AS SHOWN.

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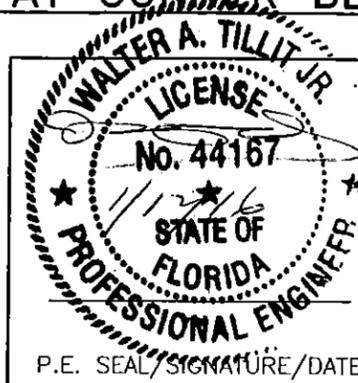


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 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530, Fax: (305)871-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167		QUICK HOUSE U.S.A., LLC. 11860 WEST STATE ROAD 84, # B13 DAVIE, FL. 33325 PH:954-870-6366 PH:954-870-6367		11/23/15 DATE	
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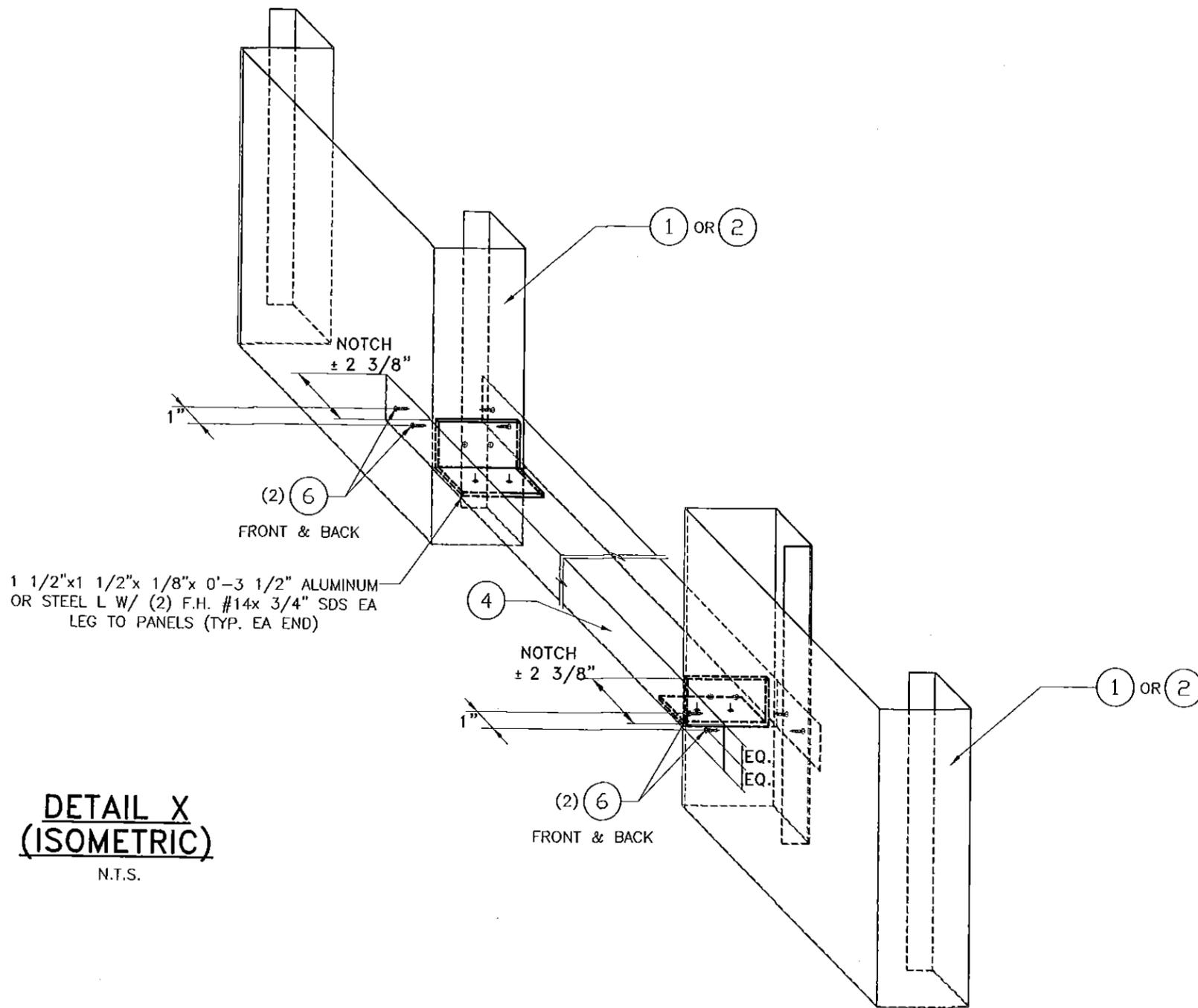


DETAIL: TYPICAL SEALING AT CORNER BETWEEN PERMABASE PANELS

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 Miami Dade Product Control
 By: *[Signature]*



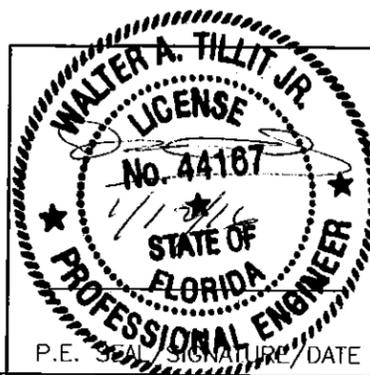
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 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			QUICK HOUSE U.S.A., LLC. 11860 WEST STATE ROAD 84, # B13 DAVIE, FL. 33325 PH:954-870-6366 PH:954-870-6367		11/23/15 DATE
			15-239 DRAWING No		SHEET 15 OF 16
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2			4		



1 1/2"x1 1/2"x 1/8"x 0'-3 1/2" ALUMINUM
OR STEEL L W/ (2) F.H. #14x 3/4" SDS EA
LEG TO PANELS (TYP. EA END)

**DETAIL X
(ISOMETRIC)**
N.T.S.

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Florida Building Code
Date 05/12/2016
NOAH 16-2114.DS
Miami Dade Product Control
By [Signature]



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e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44187

QH-610 (EXTERIOR OR PARTITION),
WALL PANEL SYSTEM

DRAWN BY
F.R.L.

QUICK HOUSE U.S.A., LLC.
11860 WEST STATE ROAD 84, # B13
DAVIE, FL. 33325
PH:954-870-6366 PH:954-870-6367

11/23/15
DATE

15-239
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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