

DIGITAL SEAL NOTES:

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Digitally signed by Frank Bennardo

03/29/2019 Date: 2020.11.

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 THE EXISTING STRUCTURE MUST BE CAPABLE OF SUPPORTING THE LOADED SUPERIOR MASON STRUCTURE AS DETERMINED BY OTHERS OR BY SPECIAL ENGINEERING BY UNDERSIGNED ENGINEER ATTACHED HERETO. NO WARRANTY IS WALL MEMBERS CHALL BE CONSTRUCTED LISTING MINIMUM TYPE 3005-H25

 WALL MEMBERS SHALL BE CONSTRUCTED USING MINIMUM TYPE 305-H25
ALUMINUM FACINGS, (1) OR (2) PCF ASTM C-578 CARPENTER BRAND PS. ADHERE TO
ALUMINUM FACINGS WITH ASHLAND CHEMICAL 2020D ISO GIP. FABRICATION TO BE
FELTIF PANAL PRODUCTS ONLY IN ACCORDANCE WITH APPROVED FABRICATION HODS.
ALL EXTRUSIONS SHALL BE ALUMINUM ALLOY TYPE 6063-T6 OR BETTER. 2) ALL EXTRUSIONS SMALL BE ALUMINOM ALLUY THE 8003-10 ON BETTEN. 3) ALL FASTENERS TO BE ASTM F593, CW 316 STAINLESS STEEL, SAE GRADE 2 STEEL MIN, OR CADMIUM PLATED OR OTHER CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH THE 2010 ALUMINUM DESIGN MANUAL, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.

ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.

1. FASTENERS SHALL HAVE A HEAD AND/OR BE PROVIDED WITH Y'D DAMETER WASHER MINIMUM UNLESS NOTED OTHERWISE. FOR ALUMINUM MEMBERS ALL ANCHORS SHALL BE SPACE. WITH ZOIGNAFEE RIOD DISTANCE AND 2. SUDAMETER MIN. SPACING TO ADDACENT ANCHORS, UNLESS NOTED OTHERWISE. PROVIDE (5) PITCHES MIN PAST THE THREAD PLANE FOR ALL SCREW CONNECTIONS.

5) ANY FASTENER STRIPPED OR NOT ADEQUATELY HOLDING SHALL BE REPLACED.

1) THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALUMINUM MEMBERS FROM DISSIBLAR METALS TO PREVENT ELECTROLISSIS.

EQUIVALENT W/ 13/2 FMBED, 2 2 MIN. EDGE DISTANCE, FASTENED TO MINIMUM 3192PS1 MIN., UN-CRACKED CONCRETE.

8) IF REQUIRED BY CODE, THE EPS CORE SHALL BE SEPARATED FROM THE BUILDIN INTERIOR BY A 15 MINUTE THERMAL BARRIER OF APPROVED 5/8 INCH CYSTON CLAS
MINERIOR BY A 15 MINUTE THERMAL BARRIER OF APPROVED 5/8 INCH CYSTON WALLBOARD OR EQUAL. SUPERIOR MASON CAN PROVIDE UL1715 (INTERIOR) OR CLAS
A(EXTERIOR) PANEL TO SATISFY CODE PROVIDED ALUM. & ESP MEET SPECE ABOVE.

SOLID WALL KICKPLATE SHALL NOT BE GREATER THAN 25% OF THE TOTAL WALL.

WINDOWS AND DOORS SHALL BE BY OTHERS IN ACCORDANCE WITH REQUIRED 10) WINDOWS AND DOORS SHALL BE BY OTHERS IN ACCIDIONCE WITH REQUIRED WIND PRESSURES STATED IN TABLE & SAVELHER STATED IN THE ES AS ALL WITH A STATE OF THE STA

ENCLOSURE. THIS ENCLOSURE IS NON-HABITABLE SPACE

11) ALUMNINM MEMBERS IN CONTACT WITH CONCRETE & WOOD SHALL BE
PROTECTED BY VORPERS BITUMINOUS PAINT OR MER. EQUAL IN ACCORDANCE WITH

PAPILICABLE CODE REQUIREMENTS.

12) ELECTRICAL GROUND AND ALL RELATED WIRING AND CONSIDERATIONS TO BE
DESIGNED BY OTHERS AS REQUIRED.

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SEGNATIVE THE SECOND OF SECURITY OF SECURI

STRUCTURE SHALL BE A36 STEEL OR 6053-T6 MIN ALUMINUM § THICK MIN. EXISTING CONCRETE HOST STRUCTURE SHALL BE 3000 PSI MIN. STRUCTURAL ADHESIVE SHALL HAVE 1500 PSI MIN BOND STRENGTH.

15) THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE

INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN. A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS

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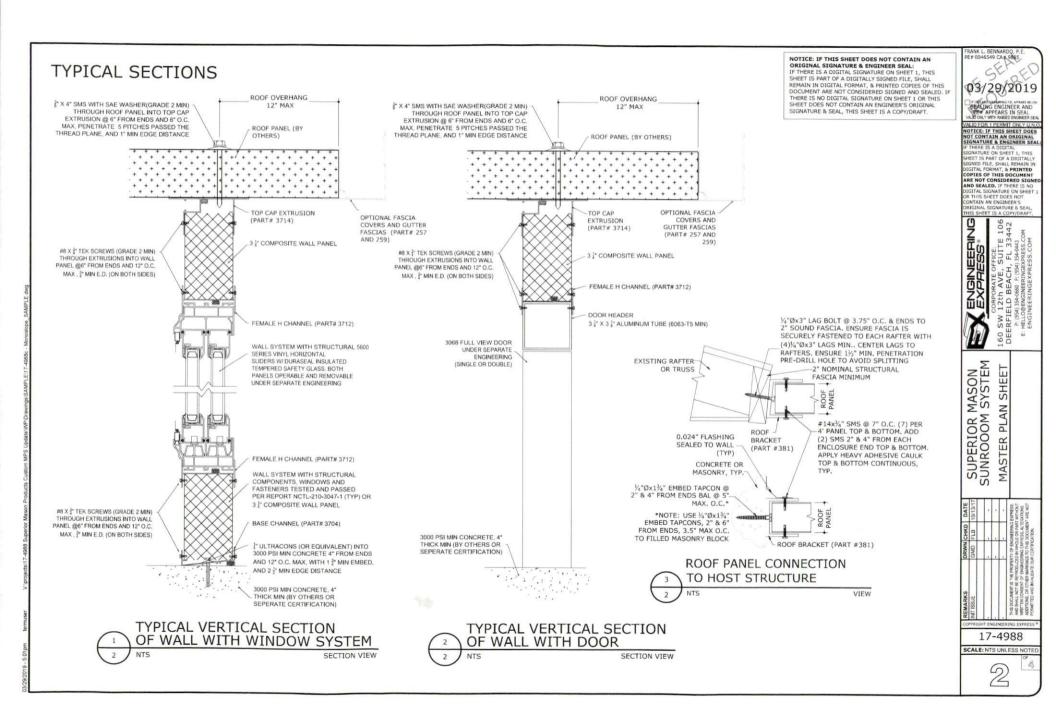
16) ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY, USE OF THIS SPECIFICATION BY CONTRACTOR, et al. INDEMNIFIES AND SAVES HARNLESS THIS ENGINEER FOR ALL COSTS AND DAMAGES INCLUDING LEGAL FEES AND APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND

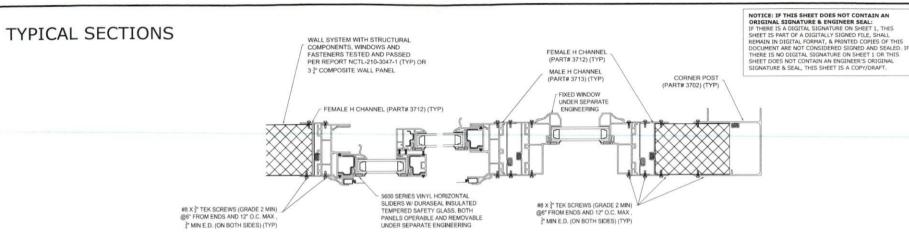
APPELIATE FEES RESULTING FROM MATERIAL PARTICATION, SYSTEM ELECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, CONSTRUCTION FROM THE STATE OF THE STATE O

ABOUT THIS DOCUMENT

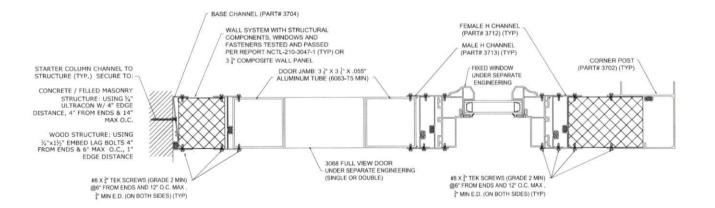
ENGINEER-CERTIFIED ORIGINALS, CUSTOM CALCULATIONS & MORE INFORMATION CAN BE FOUND BY VISITING ENGINEERINGEXPRESS.COM/STORE OR BY SCANNING OR USING

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TYPICAL HORIZONTAL SECTION OF WALL WITH WINDOW SYSTEM



TYPICAL HORIZONTAL SECTION OF WALL WITH DOOR SECTION VIEW FRANK L. BENNARDO, P.E PE # 0046549 CA # 9885 03/29/2019

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SUPERIOR MASON SUNROCOM SYSTEM MASTER PLAN SHEET

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Table 1: 130 MPH FOR 'H' COLUMNS

			AVERAGE COLUMN SPACING							
EXPOSURE	LIVE /SNOW LOAD*	MAX ROOF SPAN	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	
В	50 PSF MAX	21' - 0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-2"	7'-3"	
C	50 PSF MAX	21' - 0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-9"	8'-4"	6'-7"	

Table 2: 140 MPH FOR 'H' COLUMNS

EXPOSURE	LIVE /SNOW LOAD*	MAX ROOF SPAN	AVERAGE COLUMN SPACING							
			3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	
В	50 PSF MAX	19' - 0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-0"	8'-7"	
C	50 PSF MAX	19' - 0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-9"	8'-7"	7'-4"	

Table3: 150 MPH FOR 'H' COLUMNS

EXPOSURE	LIVE /SNOW LOAD*	MAX ROOF SPAN	AVERAGE COLUMN SPACING							
			3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	
В	50 PSF MAX	17' - 0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-9"	9'-5"	8'-2"	
C	50 PSF MAX	17' - 0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-0"	8'-0"	6'-9"	

Table 4: 160 MPH FOR 'H' COLUMNS

			AVERAGE COLUMN SPA						
EXPOSURE	LIVE /SNOW LOAD*	MAX ROOF SPAN	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
В	50 PSF MAX	15' - 0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-4"	8'-3"	7'-0"
C	50 PSF MAX	15' - 0"	10'-0"	10'-0"	10'-0"	9'-4"	8'-5"	7'-5"	6'-2"

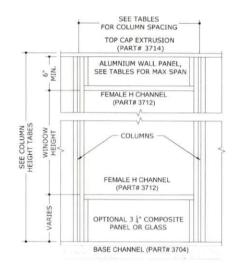
Table 5: 170 MPH FOR 'H' COLUMNS

			AVERAGE COLUMN SPACING							
EXPOSURE	LIVE /SNOW LOAD*	MAX ROOF SPAN	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	
В	50 PSF MAX	13' - 0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-6"	9'-0"	8'-9"	
С	50 PSF MAX	13' - 0"	10'-0"	10'-0"	9'-8"	9'-0"	8'-1"	7'-2"	6'-1"	

TABLE NOTES:

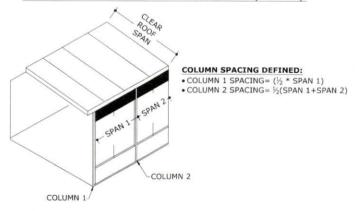
- 1) 2010 / 2015 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
- 2) USE APPROPRIATE TABLE REQUIRED BY THE BUILDING CODE REFERENCED IN THE GENERAL NOTES. VERIFY REQUIREMENTS WITH BUILDING DEPARTMENT.
- DEFLECTION LIMIT = L/180 AT GLASS POINTS.
 LOADING CRITERIA CONSIDERED IS AS FOLLOWINGS: 2PSF ROOF DEAD LOAD, 30 PSF MINIMUM ROOF. LIVE LOAD, WALL WIND LOAD PER ASCE 7-10, RISK CATEGORY II, MRH=15FT (SEE GENERAL NOTES FOR DESIGN CRITERIA).
- 5) CUSTOM WINDOWS STRUCTURAL 5600 SERIES VINYL HORIZONTAL SLIDERS W/ DURASEAL JAMBS USED FOR CALCULATIONS, ANY SUPERIOR MASON ALUMINUM WINDOWS CAN BE SUBSTITUTED, OR OTHER MANUFACTURER EQUIVALENT WINDOW, AS VERIFIED BY OTHERS.
- 6) COLUMN SPACING IS HALF THE DISTANCE TO THE LEFT ADDED TO HALF THE DISTANCE TO THE RIGHT OF THE BEAM (AVERAGE COLUMN SPACING). SEE FIGURE 1.
- 7) VALUES BELOW ALLOWABLE CEILING HEIGHT INTENDED TO BE BUILT ON KNEEWALLS OR OTHER SUPPORTING STRUCTURES (CERTIFIED BY OTHERS).
- 8) *LIVE LOADS SPECIFIED HEREIN LIST THE ALLOWABLE ROOF LIVE LOAD AND MAY BE SUBSTITUTED WITH THE REQUIRED SNOW LOAD (NOT CONCURRENTLY WITH THE ROOF LIVE LOAD, BUT CONCURRENT WITH WIND) PROVIDED THE PROJECT SITE IS CERTIFIED BY A PROFESSIONAL ENGINEER BASED ON PROJECT
- 9) COASTAL EXPOSURE D SHALL BE CERTIFIED UNDER A SITE SPECIFIC BASIS.

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ISOMETRIC OF AVERAGE COLUMN SPAN DEFINITION (FIGURE 1):



RANK L. BENNARDO, P.E PE# 0046549 CA# 9865

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