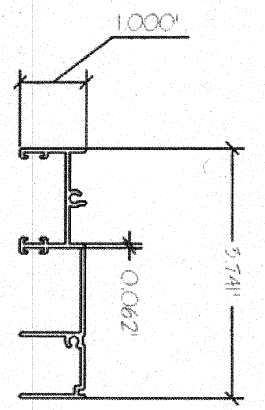
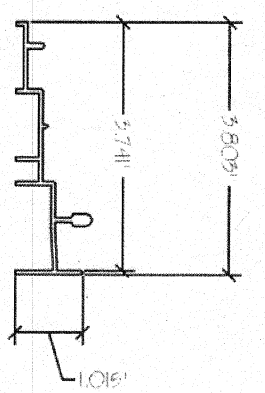


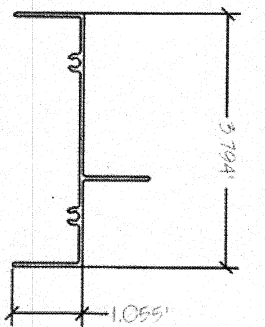
① WINDOW / DOOR FRAME HEAD



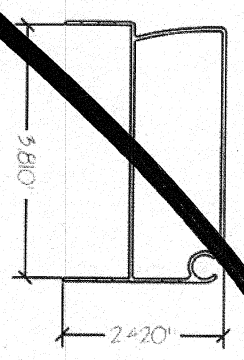
② WINDOW / DOOR FRAME JAMB



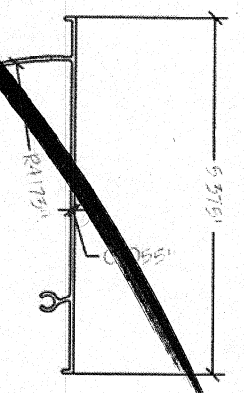
③ WINDOW / DOOR FRAME SILL



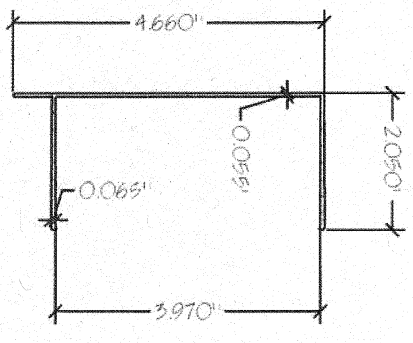
④ TRANSOM FRAME



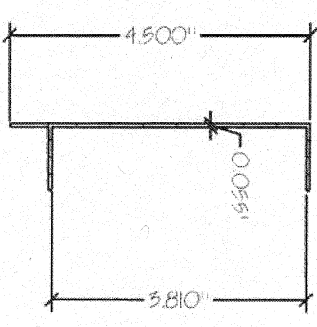
⑤ HEADER BASE



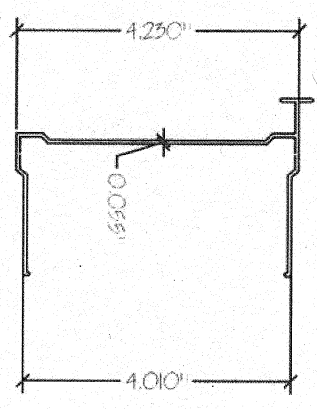
⑥ HEADER ARM



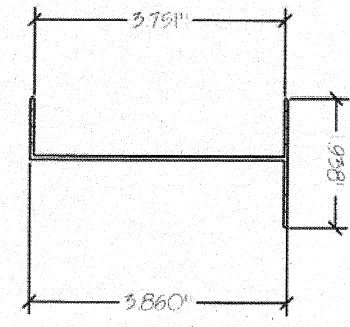
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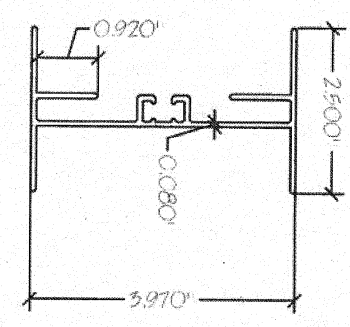
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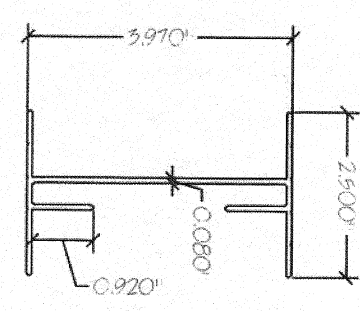
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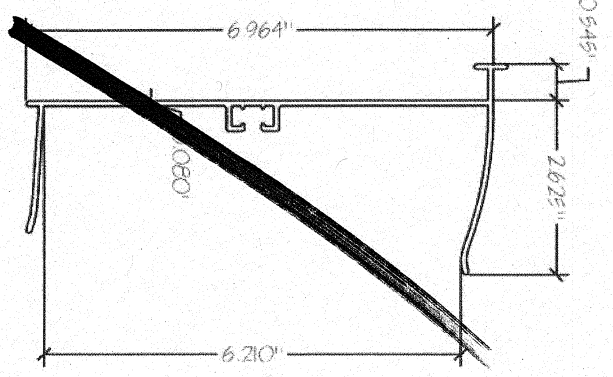
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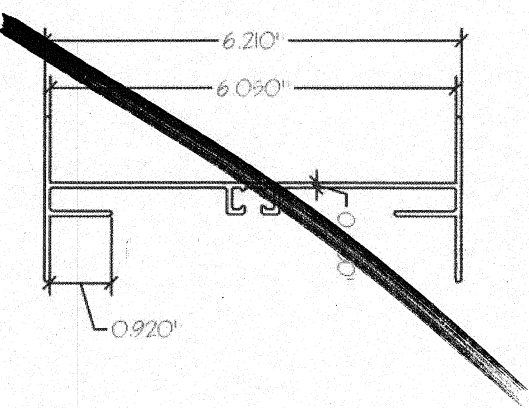
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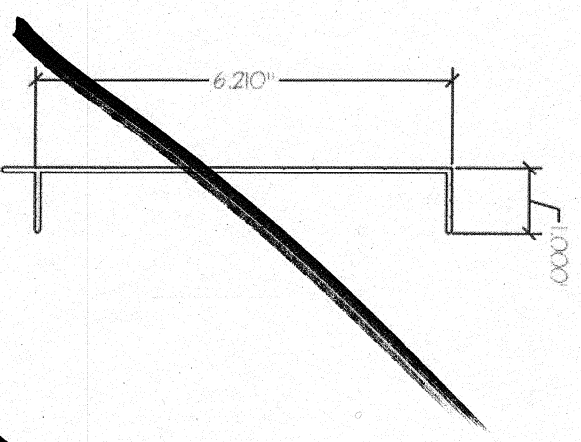
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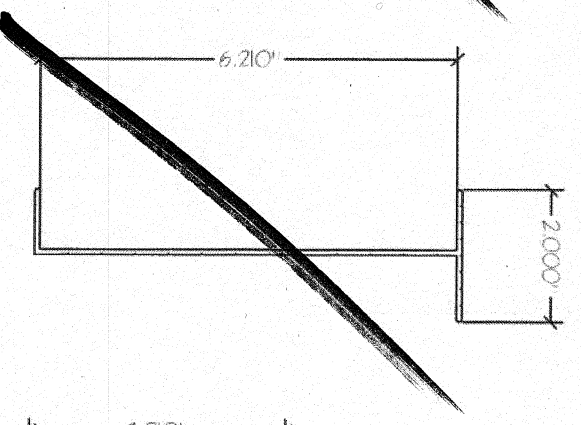
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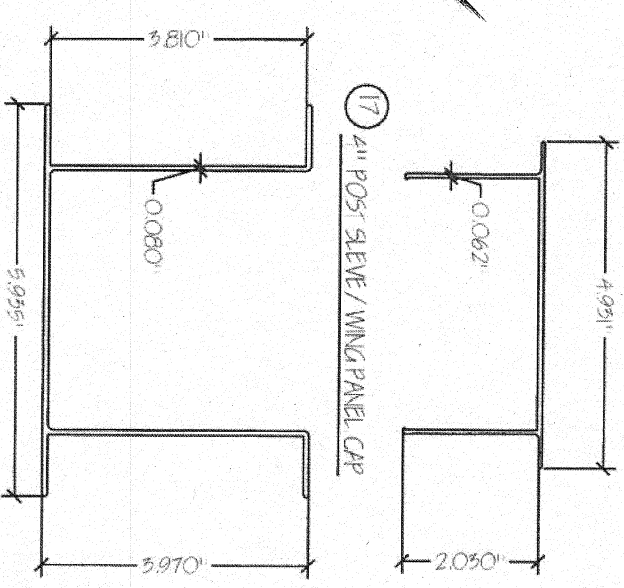
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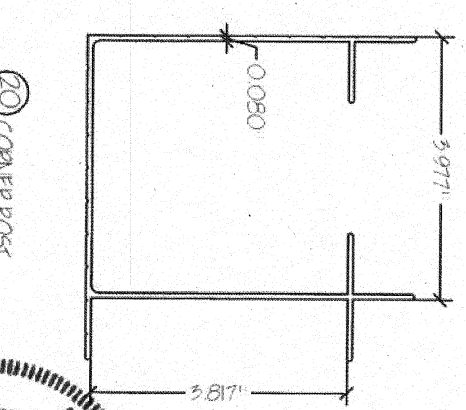
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⑰ 4\"/>



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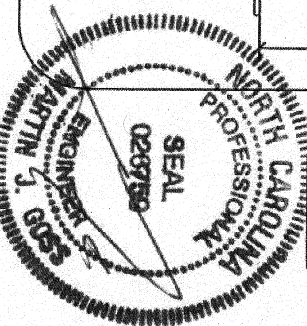
CHAMPION WINDOWS AND PATIO ROOMS  
4" Wall System with Studio Style Roof

SECTION DETAILS

**CES**

CHAMPION ENCLOSURE SUPPLIERS  
12111 CHAMPION WAY, CINCINNATI, OH 45241  
PH: (513) 782-3900 FAX: (513) 782-3903

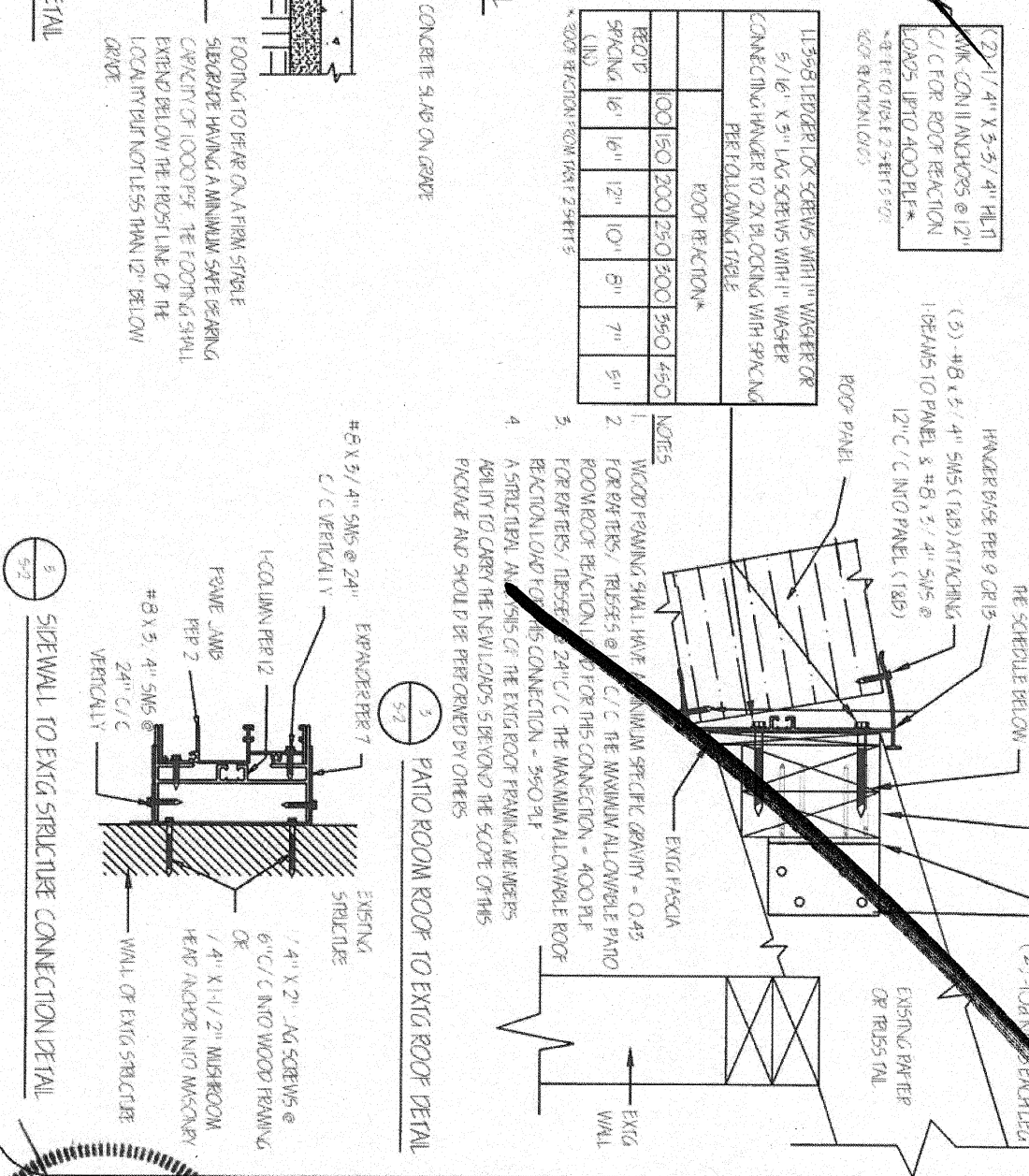
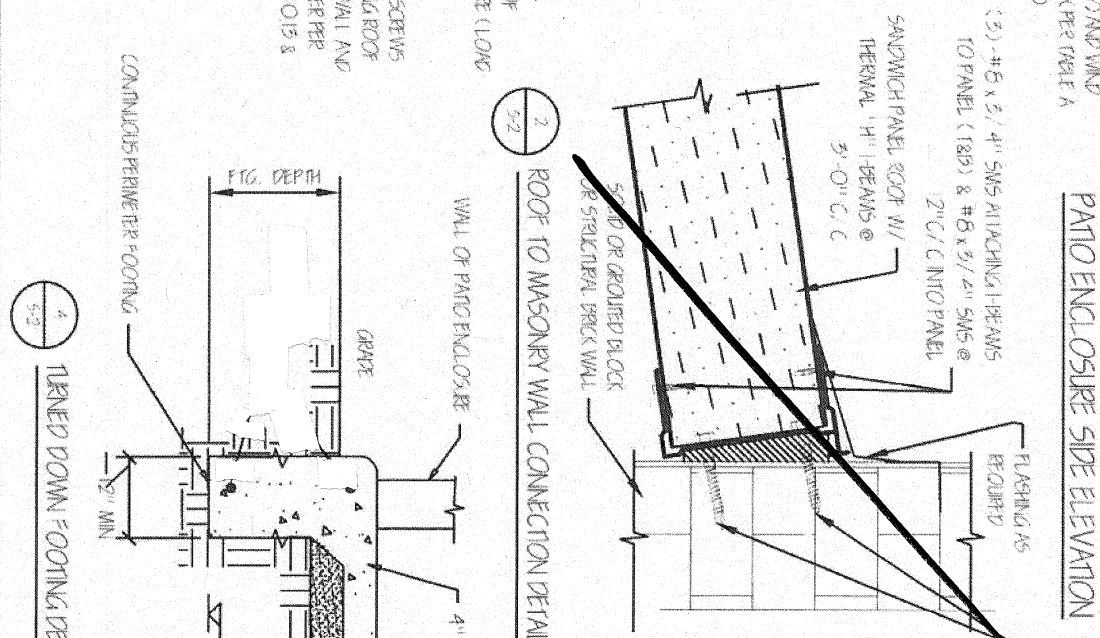
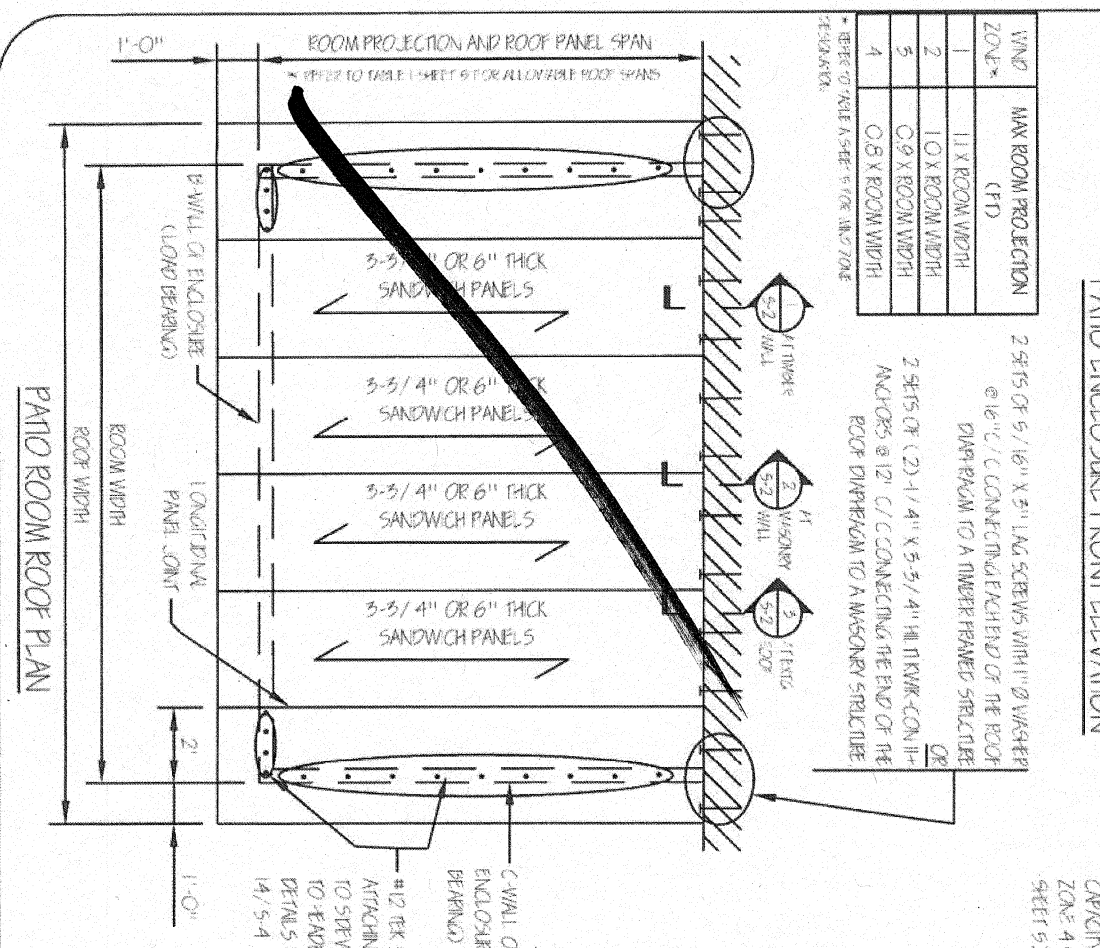
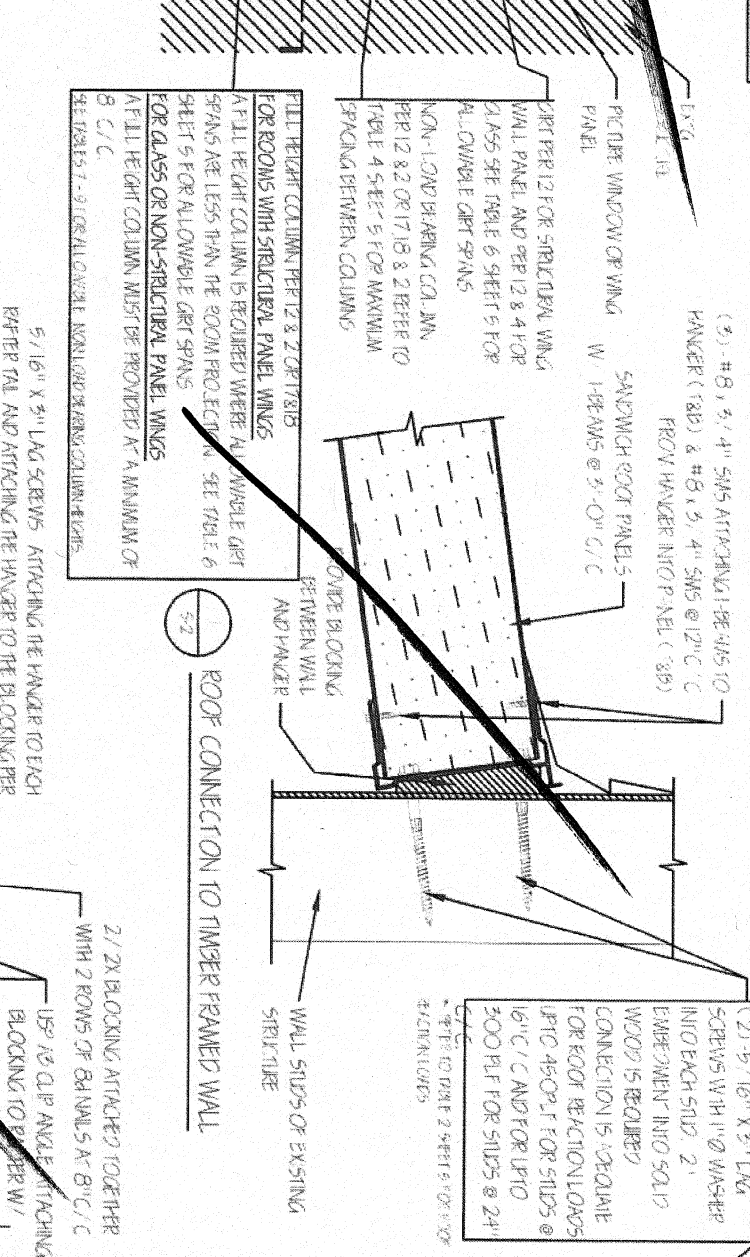
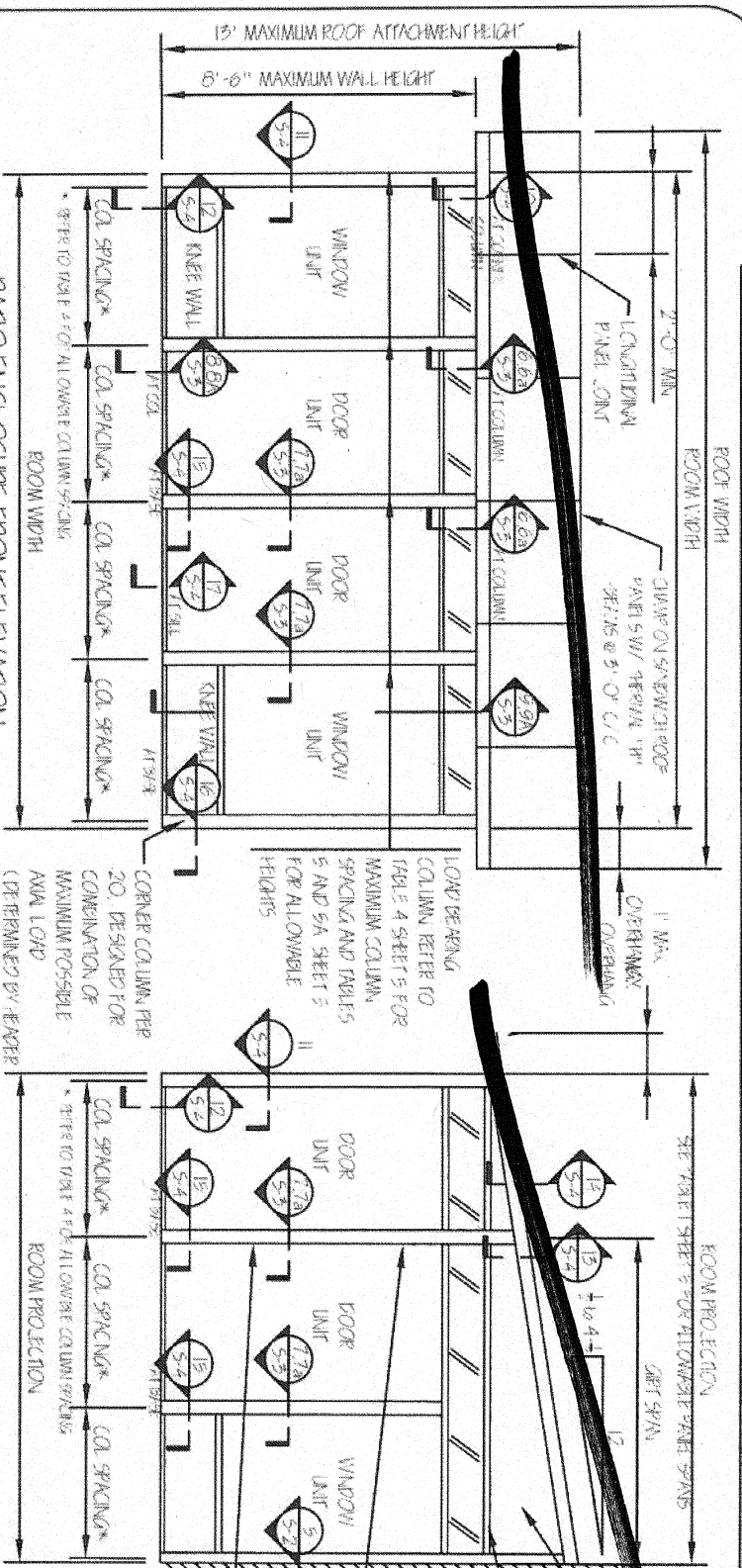
DATE:	2/13/19
SCALE:	NTS
Drawn by:	MJG
REV:	
DATE:	
SHEET: 1 OF 5	



2/12/19/2019

# "WALLS ONLY" BUILT ON EXISTING CONCRETE & UNDER EXISTING HEADERS/ROOF

NOTE: A TERRACE COMBINATION OF DOORS, WINDOWS, PATIONS AND KNEE WALLS ARE PERMITTED PROVIDED THE SPECIFIED HEIGHT AND SPACING LIMITATIONS ARE ADHERED TO.



DATE: 2/13/19  
SCALE: NTS  
Drawn by: MUG  
REV: DATE:

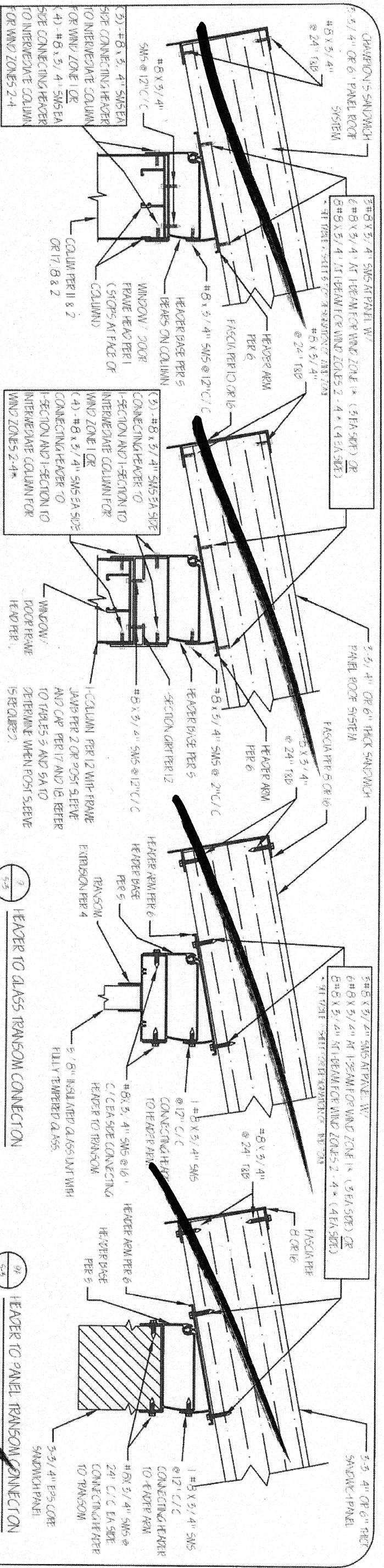
SHEET: 2 OF 5

CHAMPION WINDOWS AND PATIO ROOM  
4" Wall System with Studio Style Roof  
ELEVATION AND SECTION DETAILS

**CES**  
CHAMPION ENCLOSURE SUPPLIERS  
12111 CHAMPION WAY, CINCINNATI, OH 45241  
PH: (513) 782-3900 FAX: (513) 782-3903

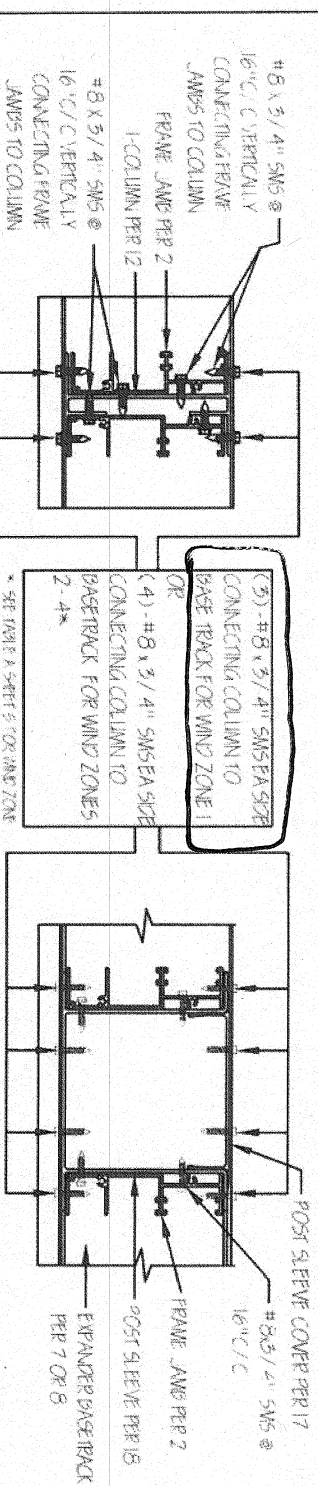
ENGINEER  
MARTIN J. GUGLIEMINI  
PROFESSIONAL SEAL  
029720  
NORTH CAROLINA PROFESSIONAL SEAL

"WALLS ONLY" BUILT ON EXISTING CONCRETE & UNDER EXISTING HEADERS / ROOF



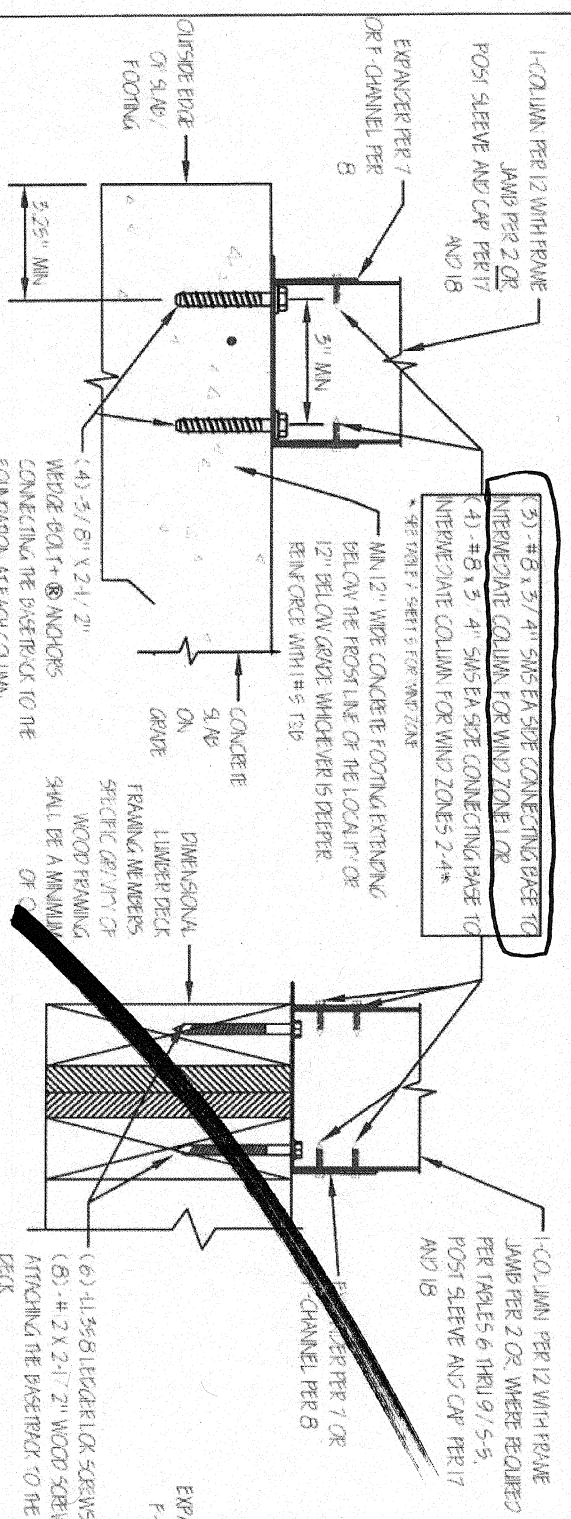
1 STANDARD HEADER TO CENTER COLUMN CONNECTION

2 HEADER WITH I-SECTION TO CENTER COLUMN CONNECTION



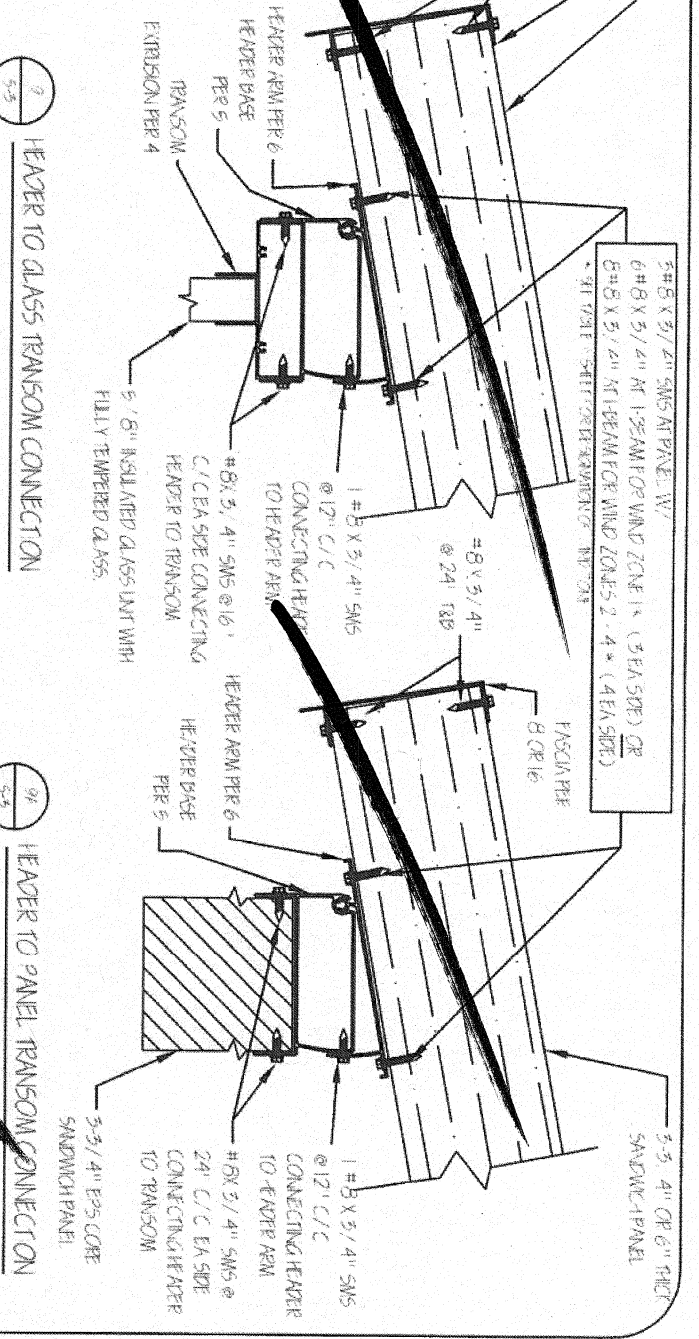
3 CENTER COLUMN PER 12 + 2 TO BASE DETAIL

4 CENTER COLUMN PER 7, 1B + 2 TO BASE CONNECTION

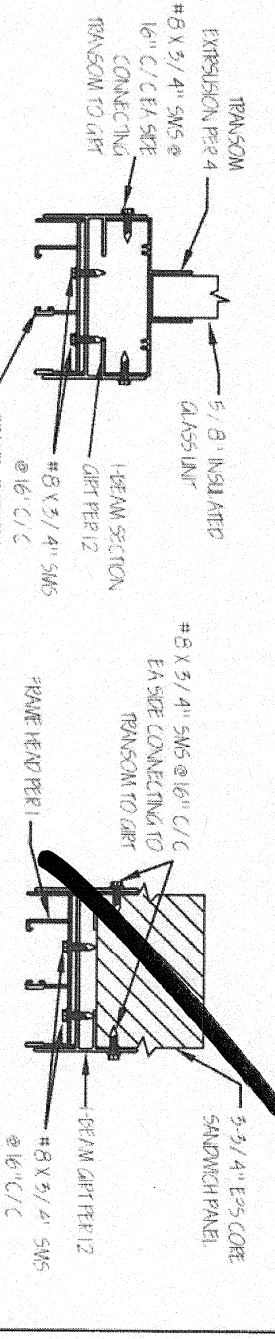


5 CENTER COLUMN TO FOUNDATION CONNECTION

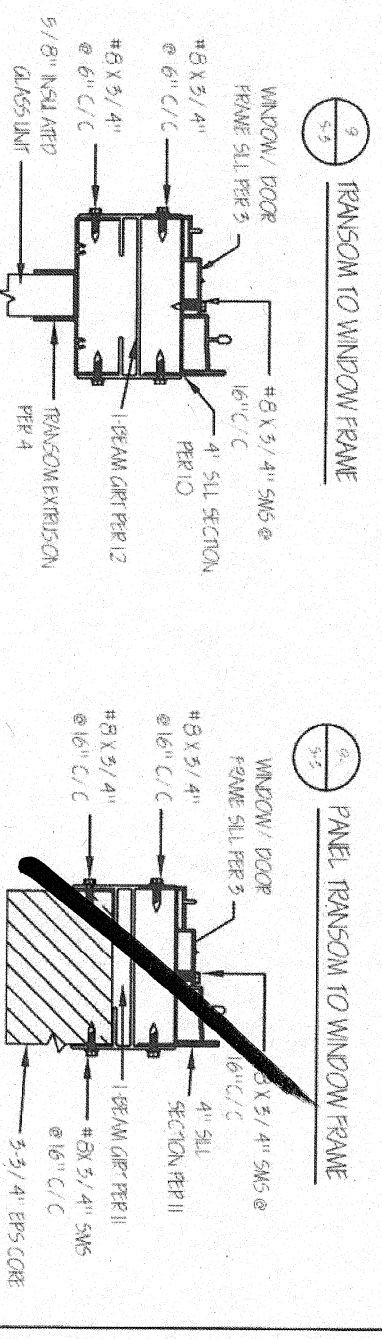
6 CENTER COLUMN TO DECK CONNECTION



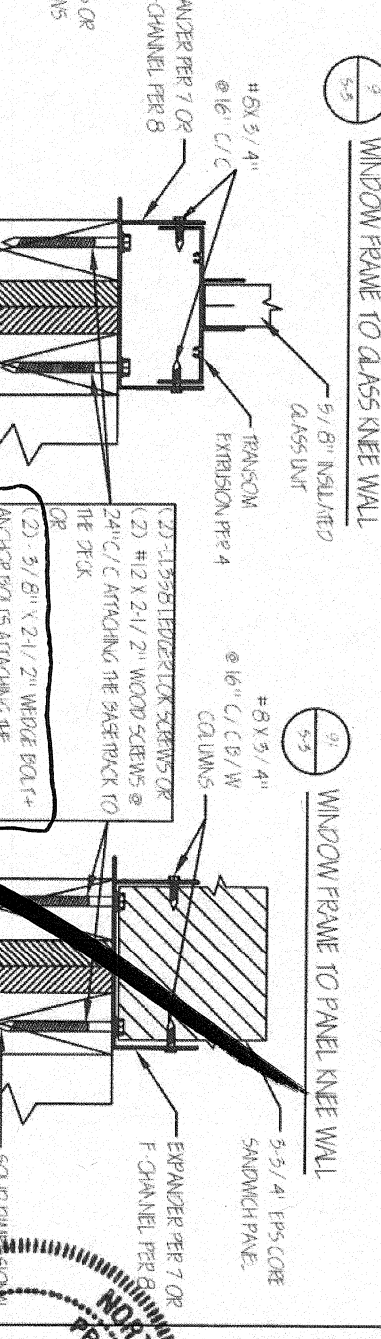
7 HEADER TO GLASS TRANSOM CONNECTION



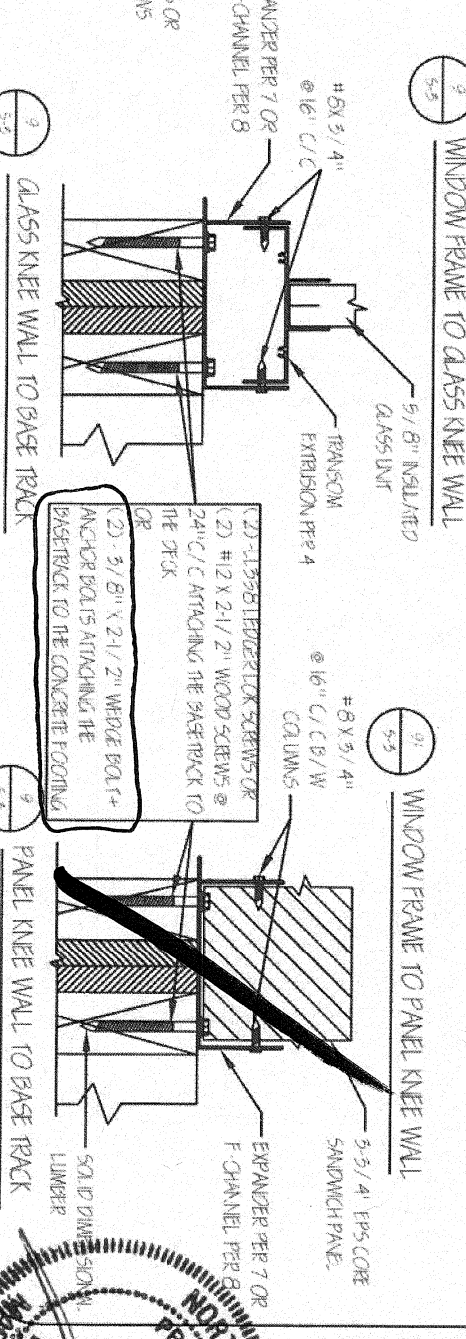
8 HEADER TO PANEL TRANSOM CONNECTION



9 TRANSOM TO WINDOW FRAME



10 WINDOW FRAME TO GLASS KNEE WALL



11 WINDOW FRAME TO PANEL KNEE WALL

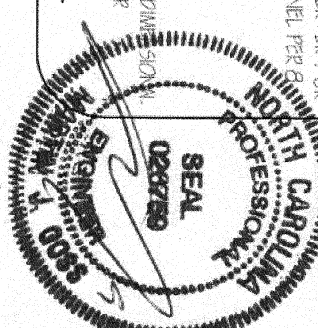
12 GLASS KNEE WALL TO BASE TRACK

13 PANEL KNEE WALL TO BASE TRACK

CHAMPION WINDOWS AND PATIO ROOM  
4" Wall System with Studio Style Roof  
SECTION DETAILS

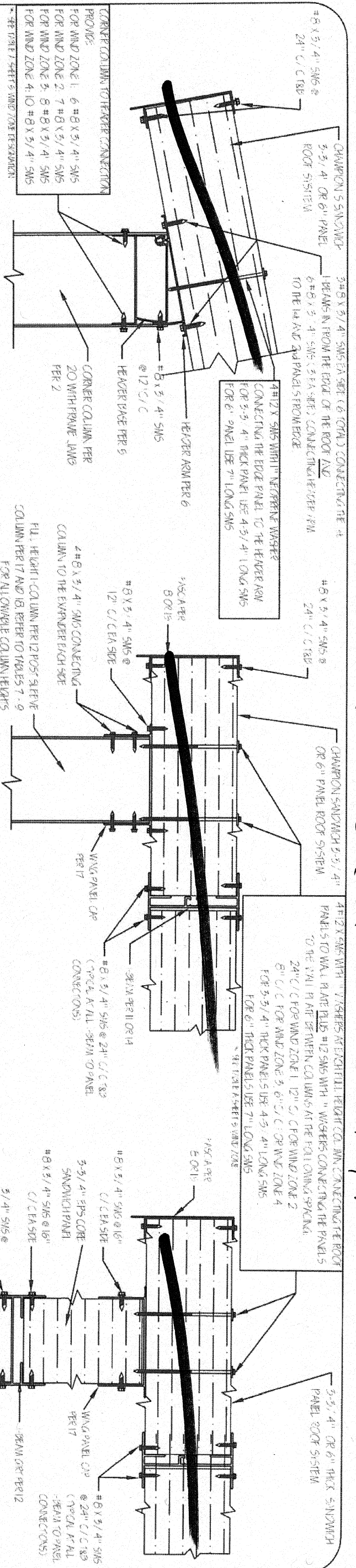
**CES**  
CHAMPION ENCLOSURE SUPPLIERS  
12111 CHAMPION WAY, CINCINNATI, OH 45241  
PH: (513) 782-3900 FAX: (513) 782-3903

DATE: 2/13/19  
SCALE: NTS  
Drawn by: MJG  
REV: \_\_\_\_\_ DATE: \_\_\_\_\_  
SHEET: 3 OF 5



1/14/19

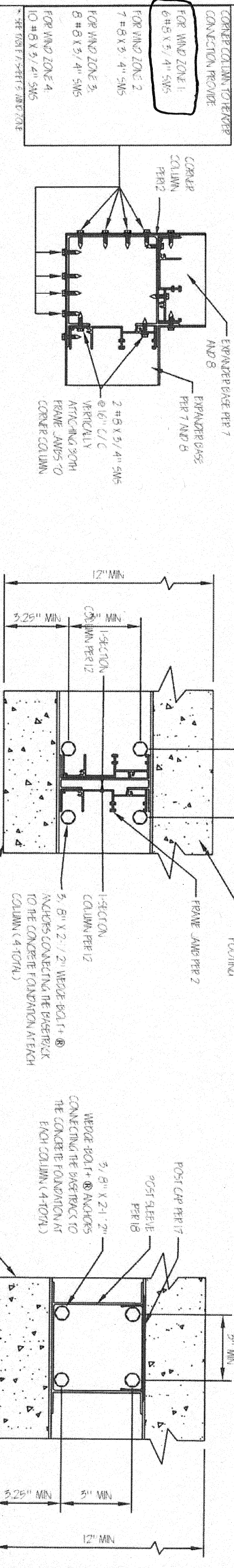
# "WALLS ONLY" BUILT ON EXISTING CONCRETE & UNDER EXISTING HEADERS / ROOF



1 CORNER COLUMN TO ROOF CONNECTION

15 NON AXIAL BEARING COLUMN TO ROOF CONNECTION

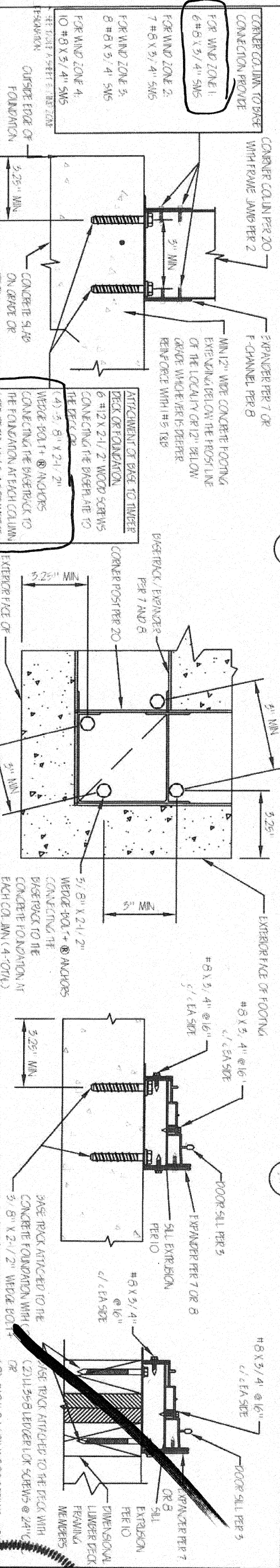
4 ROOF TO NON BEARING WALL CONNECTION



11 CORNER COLUMN TO BASE CONNECTION

16 CONNECTION OF CENTER COLUMN PER 12 & 2 TO BASE / FOUNDATION

5/2 CONNECTION OF CENTER COLUMN PER 17 & 18 TO FOUNDATION



3 CORNER COLUMN TO FOUNDATION CONNECTION

6 CORNER POST TO FOUNDATION CONNECTION

7 DOOR THRESHOLD TO FOUNDATION

17/2 DOOR THRESHOLD TO DECK

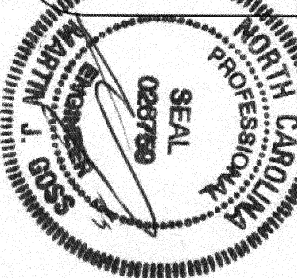
CHAMPION WINDOWS AND PATIO ROOM  
4" Wall System with Studio Style Roof

# CES

CHAMPION ENCLOSURE SUPPLIERS  
12111 CHAMPION WAY, CINCINNATI, OH 45241  
PH: (513) 782-3900 FAX: (513) 782-3903

SECTION DETAILS

DATE:	2/13/19
SCALE:	NTS
Drawn by:	MJG
REV:	DATE:
SHEET:	4 OF 5



2/13/19

# "WALLS ONLY" BUILT ON EXISTING CONCRETE & UNDER EXISTING HEADERS / ROOF

**TABLE A: WIND ZONE DESIGNATION BASED ON DESIGN WIND SPEED AND EXPOSURE**

STRUCTURE TYPE	115 MPH (PK CAT I)	130 MPH (PK CAT II)	140 MPH (PK CAT II)	150 MPH (PK CAT II)
ALLOWABLE SITE-55 WIND SPEED	90 MPH	100 MPH	110 MPH	120 MPH
EXP B	WIND ZONE 1	WIND ZONE 2	WIND ZONE 3	WIND ZONE 4
EXP C	WIND ZONE 2	WIND ZONE 5	WIND ZONE 4	WIND ZONE 3
EXP D	WIND ZONE 3	WIND ZONE 4	WIND ZONE 5	WIND ZONE 4
EXP E	WIND ZONE 4	WIND ZONE 5	WIND ZONE 4	WIND ZONE 3

1. EXPOSURE CATEGORIES ARE AS DEFINED IN THE IRC, IBC AND ASCE-7.  
 2. TABLE APPLIES TO PART OF ROOMS WITH MEAN ROOF HEIGHTS UP TO 50' IN EXPOSURE B AND UP TO 15' IN EXPOSURES C AND D. FOR ROOMS IN EXPOSURE CATEGORIES C AND D WITH MEAN ROOF HEIGHTS WITH MEAN ROOF HEIGHTS BETWEEN 15' AND 30' THE NEXT HIGHER WIND ZONE DESIGNATION SHALL BE SELECTED OR A SITE SPECIFIC DESIGN WILL BE UTILIZED.  
 3. SITE SPECIFIC DETERMINATION OF WIND PRESSURES IS REQUIRED FOR SITES ON ISOLATED HILLS, RIDGES OR ESCARPMENTS THAT ARE ABSENT CHANGES FROM THE GENERAL TOPOGRAPHY OF THE AREA.

**TABLE 2: APPLIED ROOF LOADS (P<sub>s</sub>) ON WINDOW AND DOOR HEADERS**

PANEL SPAN (FT)	20	25	30	35	40	45	50	55	60	70	80	90	100
ROOF LIVE / SNOW LOAD (PSF)	20	25	30	35	40	45	50	55	60	70	80	90	100
WIND ZONE	1	2	3	4	5	6	7	8	9	10	11	12	13

NOTE: INCLUDES THE DESIGN LOAD OF THE STRONG ROOF PANEL FOR OVER ROOF PANELS WITH SPECIAL SHAPES. SEE PART 0505 FOR THE 0.05" WALL LOAD. THE DESIGN LOAD FOR THE LOADS IN THIS TABLE SHALL BE THE DESIGN LOAD FOR THE LOADS IN THIS TABLE.  
 \* SEE TABLE 5 FOR DESIGN WIND SPEED AND ZONE.

**TABLE 1: ALLOWABLE SANDWICH ROOF PANEL SPANS (FT-IN)**

PANEL TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ROOF SANDWICH PANEL (FT-IN)	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120

1. THE ALLOWABLE SPANS ARE LISTED ON THE OPEN SANDWICH PANEL CONDITIONS.  
 2. FOR OVER ROOF PANELS WITH SPECIAL SHAPES, THE MEAN ROOF LOAD FOR THE OVER SHALL EQUAL THE DESIGN SNOW / ROOF LIVE LOAD - 5PSF.

**TABLE 3: ALLOWABLE SPANS FOR HEADERS OVER DOOR AND WINDOW OPENINGS**

APPLIED LOADS* (PSF)	70	100	125	150	175	200	250	300	400	500
STANDARD HEADER	96"	78"	72"	66"	60"	56"	48"	N/A	N/A	N/A
HEADER WITH 1/2" AM	96"	96"	96"	96"	88"	78"	72"	66"	60"	48"

\* APPLIED LOADS ARE THE APPLIED ROOF LOADS FROM THE CENTER OF THE PANEL. THE LOADS SHALL BE THE DESIGN SNOW / ROOF LIVE LOAD - 5PSF.

**TABLE 4: ALLOWABLE COLUMN SPACING BASED ON DOOR AND WINDOW OPENING CAPACITY**

WIND ZONE	1	2	3	4
ALLOWABLE COLUMN SPACING	96"	84"	78"	68"

\* SEE TABLE 5 FOR DESIGN WIND SPEED AND ZONE.

**TABLE 6: ALLOWABLE SPANS (FT) FOR GIRTS ON WALLS AND SANDWICH WIND PANELS**

WIND ZONE	1	2	3	4
MAX GIRT SPAN (FT)	12' 0"	12' 9"	12' 0"	10' 3"

\* SEE TABLE 5 FOR DESIGN WIND SPEED AND ZONE.

**TABLE 5: ALLOWABLE HEIGHT OF LOW BEARING I-COLUMN PER 12 AND 2**

COLUMN SPACING (INCHES)	1	2	3	4
60"	8.5	8.5	8.5	8.0
68"	8.5	8.5	8.0	8.0
78"	8.5	8.0	7.5	...
84"	8.5	7.5	...	...
96"	8.0	...	...	...

\* SEE TABLE 7 FOR DESIGN WIND SPEED AND ZONE.

**TABLE 5A: ALLOWABLE HEIGHT OF LOW BEARING POST GIRTS COLUMN PER 17 AND 18**

COLUMN SPACING (INCHES)	1	2	3	4
60"	8.5	8.5	8.5	8.5
68"	8.5	8.5	8.5	8.5
78"	8.5	8.5	8.5	...
84"	8.5	8.5	...	...
96"	8.5	...	...	...

\* SEE TABLE 7 FOR DESIGN WIND SPEED AND ZONE.

**TABLE 7: ALLOWABLE HEIGHT OF NON-LOW BEARING COLUMN PER 12 AND 2**

COLUMN SPACING (INCHES)	1	2	3	4
60"	10' 0"	8' 9"	8' 10"	8' 5"
68"	9' 0"	8' 0"	8' 7"	8' 2"
78"	8' 3"	8' 3"	8' 2"	...
84"	8' 0"	8' 5"	...	...
96"	8' 6"	...	...	...

\* SEE TABLE 5 FOR DESIGN WIND SPEED AND ZONE.

**TABLE 8: ALLOWABLE HEIGHT OF NON-LOW BEARING COLUMN PER 12 AND 2**

COLUMN SPACING (INCHES)	1	2	3	4
60"	15' 0"	12' 2"	11' 2"	10' 5"
68"	14' 0"	11' 6"	10' 8"	10' 0"
78"	11' 10"	10' 10"	10' 2"	...
84"	11' 5"	10' 7"	...	...
96"	10' 10"	...	...	...

\* SEE TABLE 5 FOR DESIGN WIND SPEED AND ZONE.

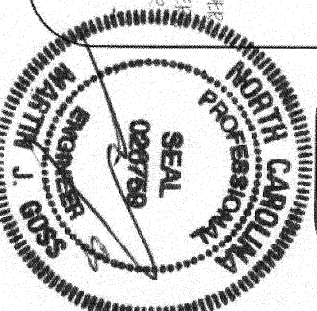
**TABLE 9: ALLOWABLE HEIGHT OF NON-LOW BEARING POST GIRTS COLUMN PER 17 AND 18**

COLUMN SPACING (INCHES)	1	2	3	4
60"	15' 0"	12' 0"	11' 2"	10' 5"
68"	14' 0"	12' 4"	11' 4"	10' 7"
78"	12' 9"	11' 7"	10' 9"	...
84"	12' 4"	11' 5"	...	...
96"	11' 8"	...	...	...

\* SEE TABLE 5 FOR DESIGN WIND SPEED AND ZONE.

### GENERAL NOTES AND SPECIFICATIONS

- THE STRUCTURAL DESIGN OF CHAMPION PATIO ROOMS HAS BEEN PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF 2009, 2012, 2015 AND 2018 EDITIONS OF THE IBC CODES, 2015 IBC WITH A CODE OF OHIO 2015 NEW YORK STATE RESIDENTIAL CODE, 2018 SOUTH CAROLINA RESIDENTIAL CODE OF OHIO BUILDING CODE, 2018 KENTUCKY RESIDENTIAL CODE, 9412 OF THE MISSISSIPPI RESIDENTIAL CODE, 2019 NORTH CAROLINA RESIDENTIAL CODE, 2018 ALABAMA RESIDENTIAL CODE, 2018 ARIZONA RESIDENTIAL CODE, 2018 ARKANSAS RESIDENTIAL CODE, 2018 CALIFORNIA RESIDENTIAL CODE, 2018 COLORADO RESIDENTIAL CODE, 2018 CONNECTICUT RESIDENTIAL CODE, 2018 DELAWARE RESIDENTIAL CODE, 2018 FLORIDA RESIDENTIAL CODE, 2018 GEORGIA RESIDENTIAL CODE, 2018 ILLINOIS RESIDENTIAL CODE, 2018 INDIANA RESIDENTIAL CODE, 2018 IOWA RESIDENTIAL CODE, 2018 KANSAS RESIDENTIAL CODE, 2018 KENTUCKY RESIDENTIAL CODE, 2018 LOUISIANA RESIDENTIAL CODE, 2018 MARYLAND RESIDENTIAL CODE, 2018 MASSACHUSETTS RESIDENTIAL CODE, 2018 MICHIGAN RESIDENTIAL CODE, 2018 MINNESOTA RESIDENTIAL CODE, 2018 MISSISSIPPI RESIDENTIAL CODE, 2018 MISSOURI RESIDENTIAL CODE, 2018 MONTANA RESIDENTIAL CODE, 2018 NEBRASKA RESIDENTIAL CODE, 2018 NEVADA RESIDENTIAL CODE, 2018 NEW HAMPSHIRE RESIDENTIAL CODE, 2018 NEW JERSEY RESIDENTIAL CODE, 2018 NEW MEXICO RESIDENTIAL CODE, 2018 NEW YORK RESIDENTIAL CODE, 2018 NORTH CAROLINA RESIDENTIAL CODE, 2018 NORTH DAKOTA RESIDENTIAL CODE, 2018 OHIO RESIDENTIAL CODE, 2018 OKLAHOMA RESIDENTIAL CODE, 2018 OREGON RESIDENTIAL CODE, 2018 PENNSYLVANIA RESIDENTIAL CODE, 2018 RHODE ISLAND RESIDENTIAL CODE, 2018 SOUTH CAROLINA RESIDENTIAL CODE, 2018 SOUTH DAKOTA RESIDENTIAL CODE, 2018 TENNESSEE RESIDENTIAL CODE, 2018 TEXAS RESIDENTIAL CODE, 2018 UTAH RESIDENTIAL CODE, 2018 VERMONT RESIDENTIAL CODE, 2018 VIRGINIA RESIDENTIAL CODE, 2018 WASHINGTON RESIDENTIAL CODE, 2018 WEST VIRGINIA RESIDENTIAL CODE, 2018 WISCONSIN RESIDENTIAL CODE, 2018 WYOMING RESIDENTIAL CODE.
- SEE PLANS COVER THE DESIGN OF THE PATIO ROOM AND ITS CONNECTION TO THE EXISTING STRUCTURE. THE STRUCTURAL SPECIFICITY OF THE EXISTING STRUCTURE TO SUPPORT THE TRANSPORTED LOADS IS BEYOND THE SCOPE OF THIS PACKAGE AND SHOULD BE VERIFIED BY OTHERS.
- THE SNOW LOAD VALUES PRESENTED IN THIS PACKAGE ARE FOR UNIFORM ROOF SNOW LOADS.
- CONSIDERATION SHALL BE GIVEN TO SITE SPECIFIC CONDITIONS SUCH AS SLIDING, DRIFTING OR UNBALANCED SNOW LOADS.
- BASIC WIND SPEEDS ARE 3-SECOND GUST AT 33 FT ABOVE THE GROUND IN EXPOSURE C.
- SEISMIC DESIGN FOR ROOMS CONSTRUCTED IN SEISMIC DESIGN CATEGORIES 12 WITH UNIFORM ROOF SNOW LOADS UP TO 30 PSF HAS BEEN CONSIDERED IN THIS PACKAGE. A SITE SPECIFIC SEISMIC EVALUATION IS REQUIRED FOR ENCLOSURES IN 300 PSF OR HIGHER WITH DESIGN ROOF SNOW LOADS IN EXCESS OF 30 PSF.
- THE PATIO ROOM CONNECTION SHALL BE A MINIMUM OF 11 TIMES THE PATIO ROOM WIDTH.
- CHAMPION PATIO ROOM ENCLOSURES CAN BE CONSTRUCTED ON TIMBER FRAMED DECKS PROVIDED THE DECK AND ITS FOOTINGS HAVE BEEN ENGINEERED TO SAFELY CARRY THE ENCLOSURES AND THE DECK'S DESIGN LOADS. THE DOOR AND WINDOW UNITS LISTED IN THE CHAMPION PATIO ROOM SYSTEM SUPPLIED BY ENCLOSURE SUPPLIERS, LLC, ARE GAZETED WITH FULLY TYPED AND INSTALLED GLASS CONFORMING TO THE REQUIREMENTS OF ANSI Z97.1 AND CPSC 16 CFR 201.101. IN WINDOW BONE REDS BEZELS, GLAZED OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONCRETE CORE.
- THIS ENCLOSURE MEETS THE REQUIREMENTS OF A CATEGORY II SLEEPING QUARTERS AS DEFINED IN FEMA / NFPA 2000 MATERIALS.
- SOILS: ALL FOOTINGS SHALL BEAR ON LEVEL WITHIN (2) UNDISBURBED SOIL OR APPROVED ENGINEERING FILL WITH AN ALLOWABLE SOIL BEARING CAPACITY OF 1000 PSF. FOOTINGS SHALL EXTEND BELOW THE FROST LINE OF THE LOCALITY BUT NOT LESS THAN 12 INCH DEPTH.
- CONCRETE: ALL CONCRETE SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND WHEN EXPOSED TO THE EXTERIOR ENVIRONMENT SHALL HAVE AN ENHANCED AIR CONTENT OF BETWEEN 5.0% TO 7.0%.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 60KSI PERFORMED BARS AND ASTM A615 60KSI STRIPPER ALUMINUM.
- ALL EXTENSIONS SHALL BE AT 6063-T6 ALUMINUM PROVIDED BY ENCLOSURE SUPPLIERS, LLC.
- ROOF PANELS SHALL BE 3/4" OR 6" THICK STANDARD OR OSB SANDWICH PANELS MANUFACTURED BY ENCLOSURE SUPPLIERS, LLC.
- STANDARD ROOF PANEL SKINS CONSIST OF 0.024" THICK ALUMINUM SHEETING (5.09 157.4) OSB ROOF PANELS SKINS CONSIST OF A 0.024" ALUMINUM SHEETING AND OSB COMBINED TOP SKINS AND A 0.024" ALUMINUM SHEETING BOTTOM SKIN.
- THE CORE FOR ALL PANELS SHALL BE ASTM C578 TYPE II EXPANDED POLYSTYRENE.
- THE PANELS SHALL BE A MINIMUM OF THREE FEET (3') WIDE AND SHALL BE 3.0 FT DEEP BETWEEN ALL 6063-T6 BEAMS.
- THE ALLOWABLE PANEL SPAN CAPACITY IN THIS PACKAGE APPLIES TO BOTH THE STANDARD AND OSB ROOF PANELS.
- MECHANICAL FASTENERS: SHEET METAL SCREWS (SMS) SHALL BE STAINLESS STEEL WITH THE AS SCREEN HEADS.
- LAG SCREWS SHALL BE GALVANIZED STEEL. "HILL BOYD" SCREWS WITH A MINIMUM BEARING YIELD STRENGTH OF 60,000 PSI FOR 5/8" DIAMETER AND 40,000 PSI FOR 3/4" AND LARGER DIAMETER LAG SCREWS SHALL HAVE A MINIMUM EMBEDMENT DEPTH OF 8 X LAG SCREW DIAMETER.
- WOOD SCREWS SHALL HAVE A MINIMUM BEARING YIELD STRENGTH OF 80,000 PSI.
- 1.35x6 LEADER LAG SCREWS BY FASTENERS AND SHALL HAVE A MINIMUM BEARING STRENGTH OF 85,000 PSI AND SHALL HAVE A MINIMUM EMBEDMENT OF 2" INTO THE MAIN WOOD SUPPORTING MEMBER.
- ANCHOR BOLTS INTO CONCRETE SHALL BE 3/4" X 2' W/ WEDGE BOLT + ANCHORS BY POWERS FASTENER.
- ANCHORS SHALL BE ZAMAC MAIN ANCHORS MANUFACTURED BY POWERS FASTENERS. 3/8" DIA. IN OR EQUIVALENT.
- FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL OR SHALL BE HOT DIPPED GALVANIZED PER ASTM A551 HOT DIPPED CONTACT PRODUCTS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE ASTM A653 CONTACT DESIGNATION G-85.



**CHAMPION WINDOWS AND PATIO ROOM  
4" Wall System with Studio Style Roof**

DESIGN TABLES AND NOTES

DATE:	2/13/19
SCALE:	NTS
Drawn by:	MUG
REV:	DATE:
2019 R0	7/19/19
2015 SC	8/8/19
DESIGNER:	11/6/19

SHEET: 5 OF 5

**CES**  
**CHAMPION ENCLOSURE SUPPLIERS**  
 12111 CHAMPION WAY, CINCINNATI, OH 45241  
 PH: (513) 782-3900 FAX: (513) 782-3903