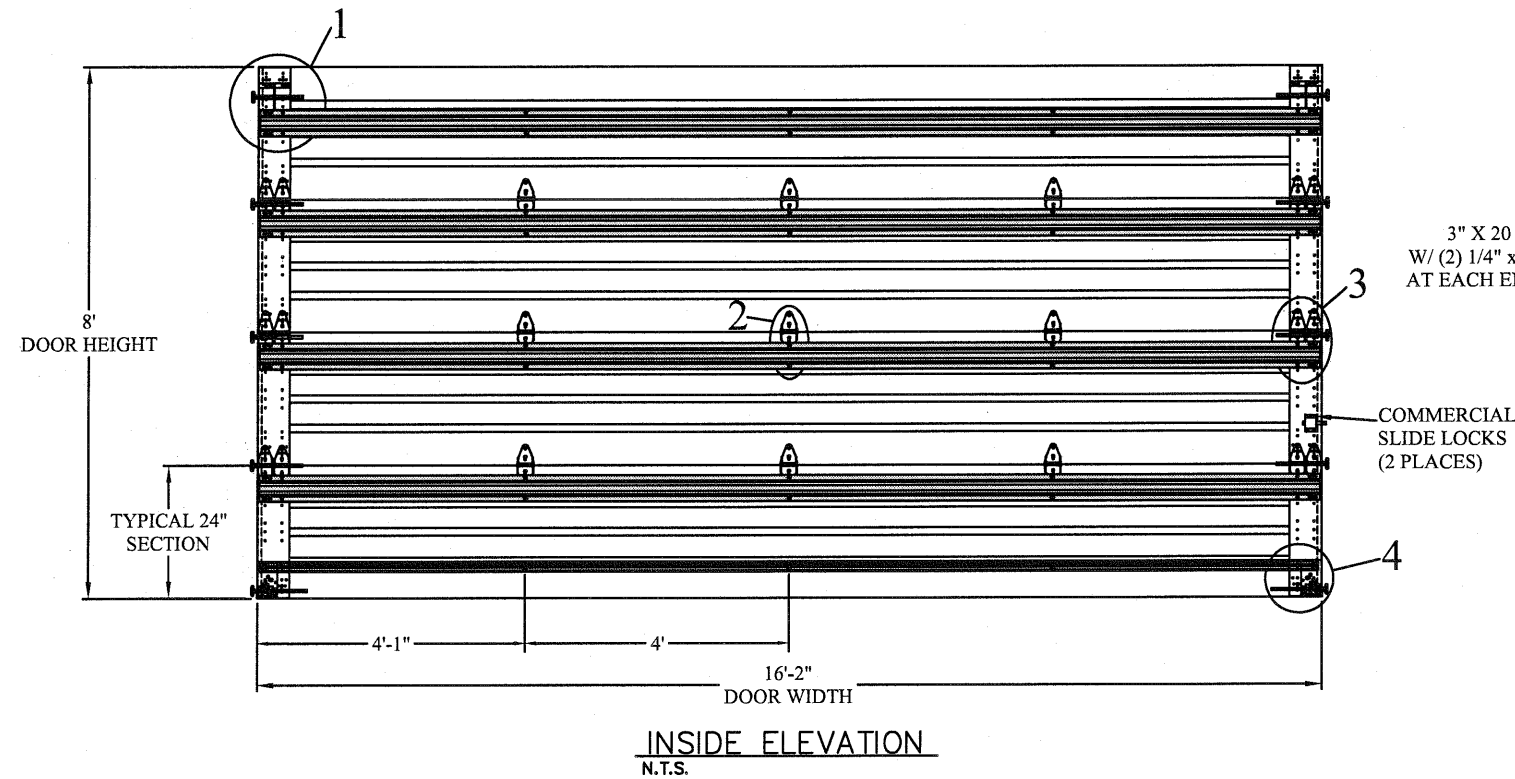
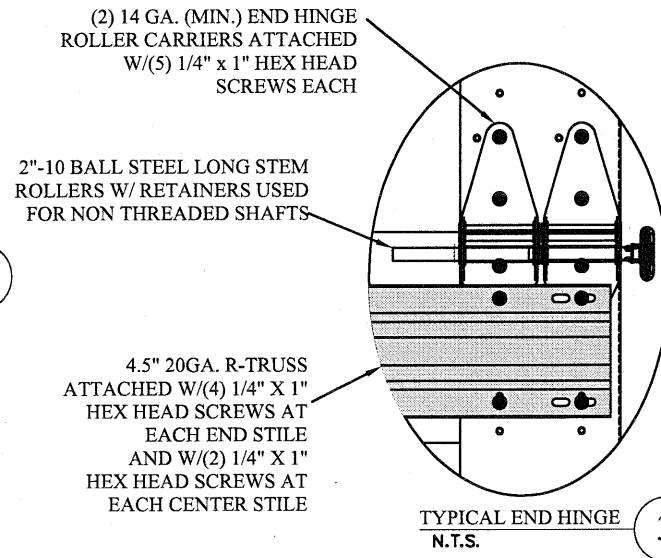
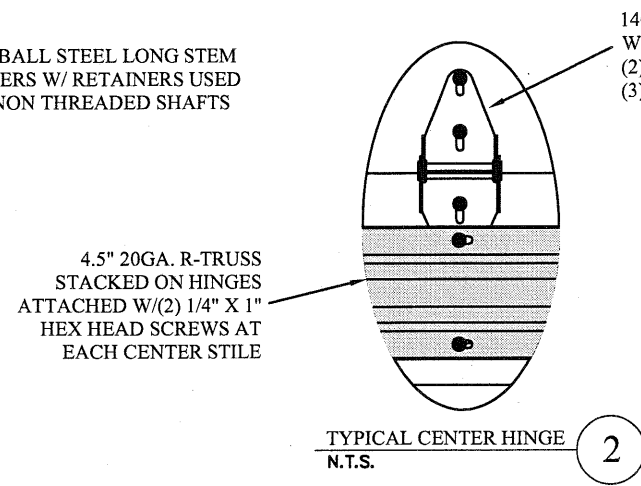
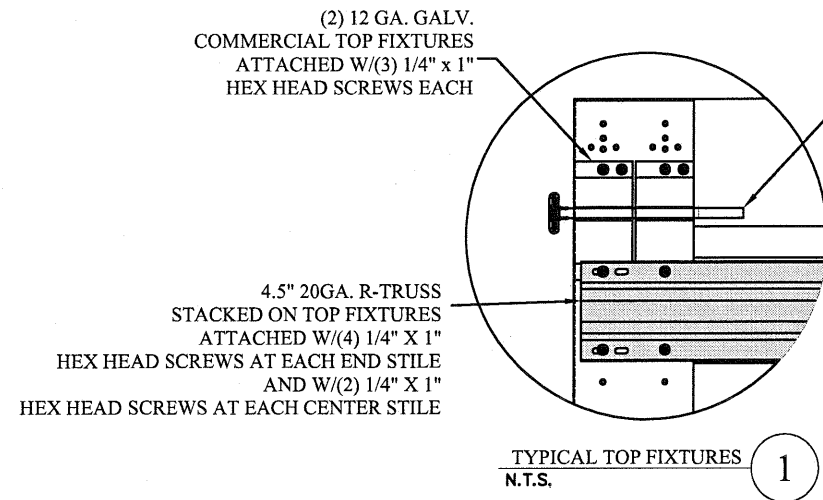
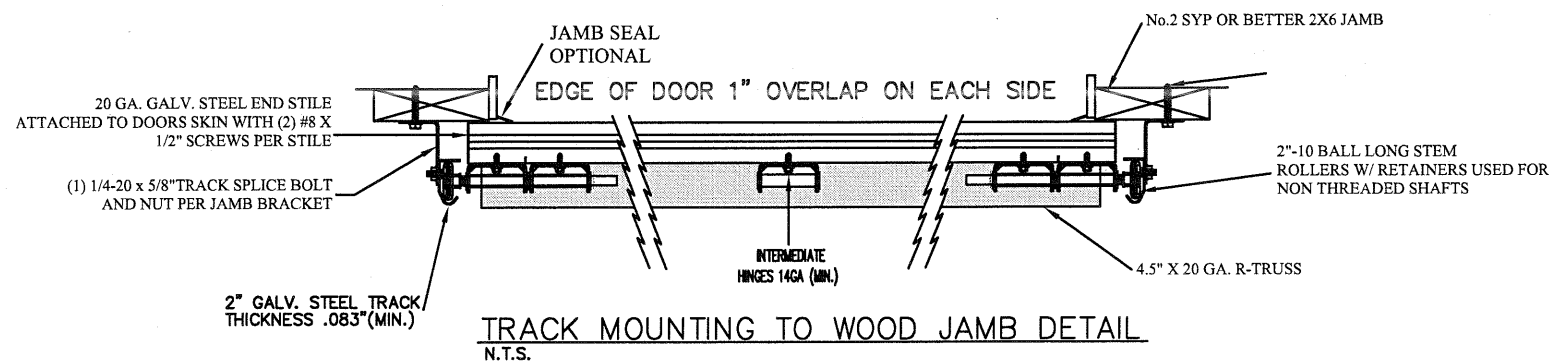
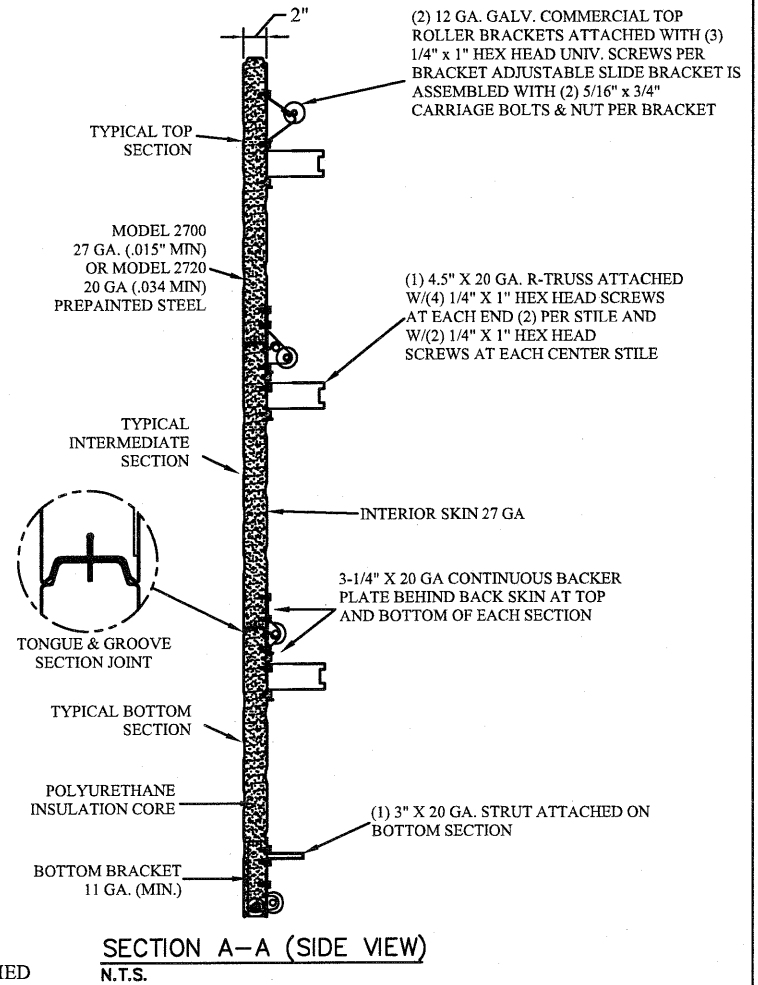
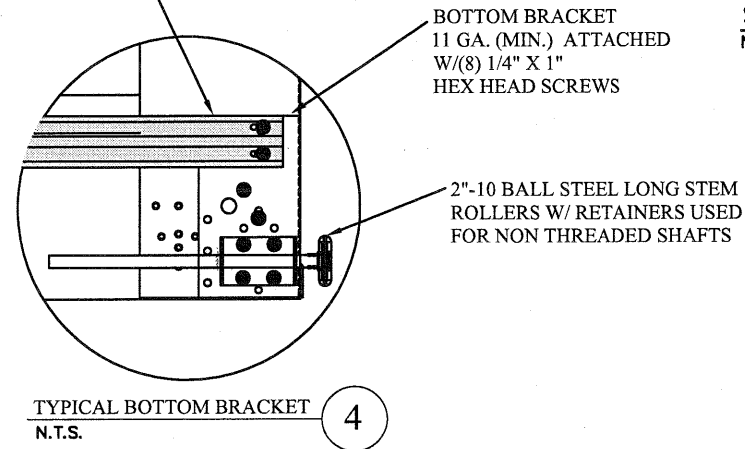




3" X 20 GA. STRUT ATTACHED W/ (2) 1/4" x 1" HEX HEAD SCREWS AT EACH END AND CENTER STILE



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10' OR LESS):

WIND SPEED (MPH)	195	177	168	160	154
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE, 16'2" x 24'

DESIGN LOADS
+31.3 PSF
-35.4 PSF

TEST LOADS
+47.0 PSF
-53.1 PSF

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

FL

THOMAS L. SHELMERDINE
LICENSE
No. 48579
STATE OF FLORIDA
PROFESSIONAL ENGINEER

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr

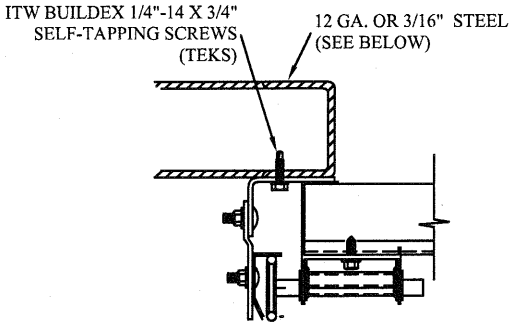
MODEL 2700 AMARR 2742, 2743
MODEL 2720 AMARR 2042

SIZE	DRAWN BY	RLR	DATE	02/09/16	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	02/09/16	IBC-2716-150-24

ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 1 OF 4

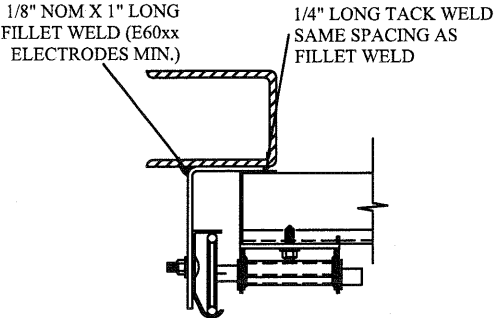
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



CLIP STYLE REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

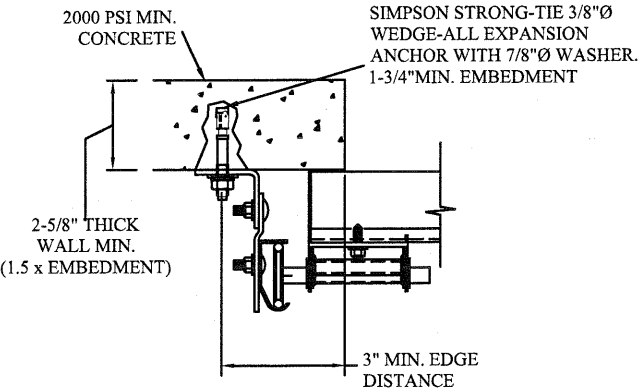
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 10" O.C.
REFER TO NOTES: 1, 2 AND 5

3/16" STEEL FRAMING
569 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5



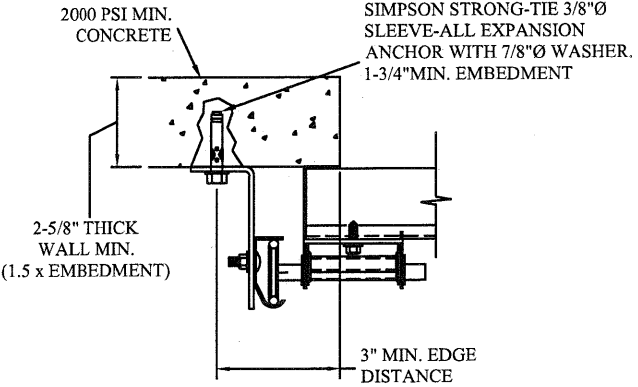
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

STEEL FRAMING 12GA OR BETTER
1590 LBS./IN. ALLOWABLE LOAD - 6"
FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 5, 6, 7, 8 AND 9



CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, REVERSE AND TAPERED ANGLE MOUNT
AVAILABLE

2000 PSI CONCRETE OR GREATER
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 16" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5



CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

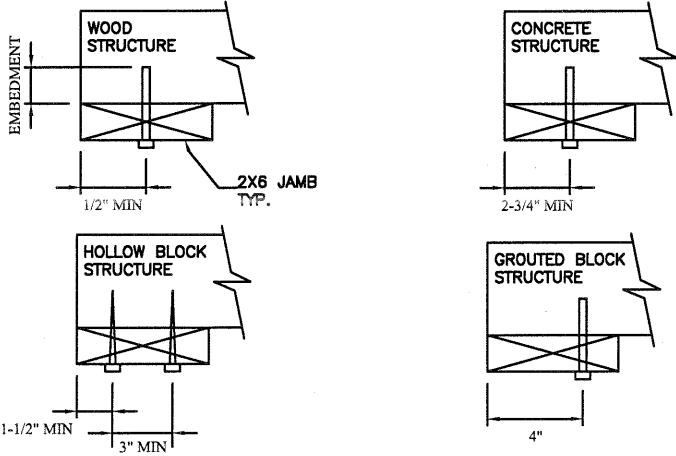
2000 PSI CONCRETE OR GREATER
336 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 14" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

SPECIFICATIONS AND NOTES

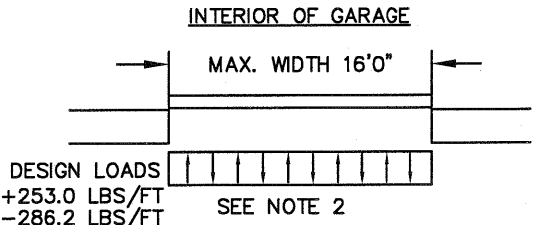
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +253.0 LBS/FT & -286.2 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.015) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 24'0" HIGH USE (1) 4.5" 20GA R-TRUSS PER SECTION & (1) ADDITIONAL 3" 20GA STRUT ON THE BOTTOM SECTION.
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

- 2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 18" O.C. (1 1/2" EMBEDMENT)
- 2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 16" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
- 2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/4" EMBEDMENT)
- 2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 20" O.C. (1 1/4" EMBEDMENT)
(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)
- *LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

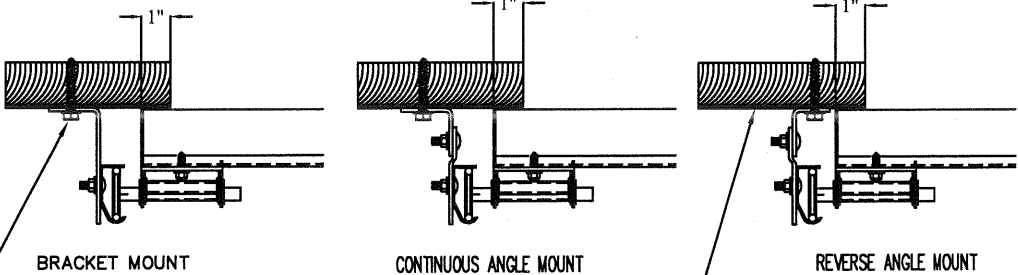


- NOTES:
1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
 2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
 3. MIN. EGDE DISTANCE OF 3" REQUIRED.
 4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
 5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
 6. MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
 7. ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
 8. FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE SURFACE.
 9. TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.



TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREWS & BRACKET SPACING SEE PAGE 4 FOR TRACK CONFIGURATION DETAIL



5/16" x 1 5/8" LAG SCREW (1) PER JAMB BRACKET (1-1/2" EMBEDMENT MINIMUM) (TYP.)

2x6 WOOD JAMB SYP OR SPF (NO.2) OR BETTER (TYP.)

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16'2 x 24'

DESIGN LOADS
+31.3 PSF
-35.4 PSF

TEST LOADS
+47.0 PSF
-53.1 PSF

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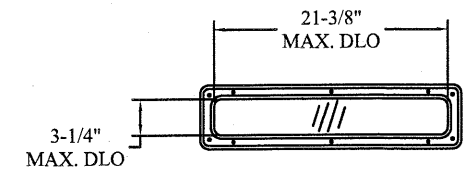
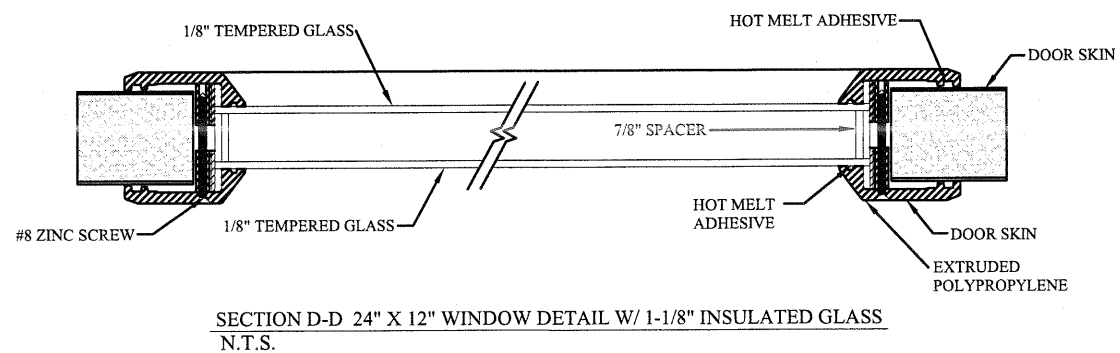
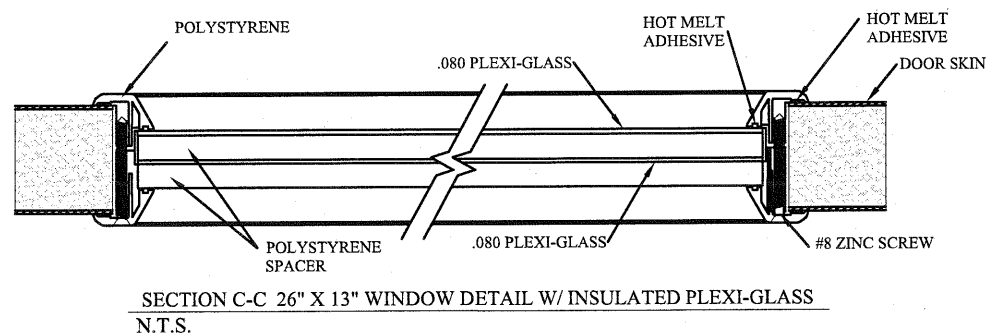
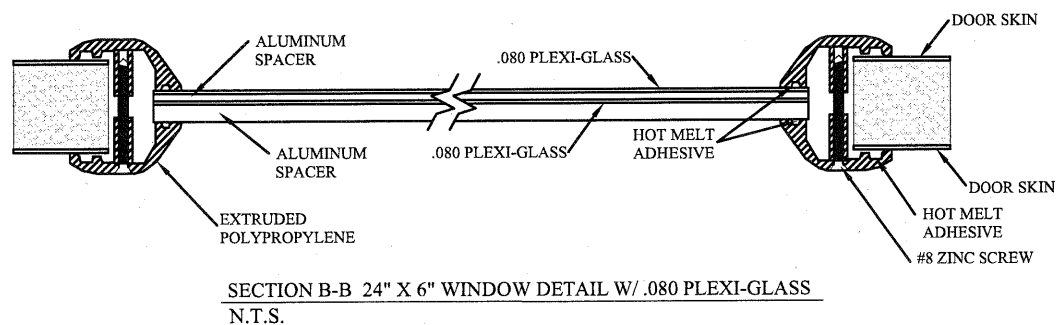
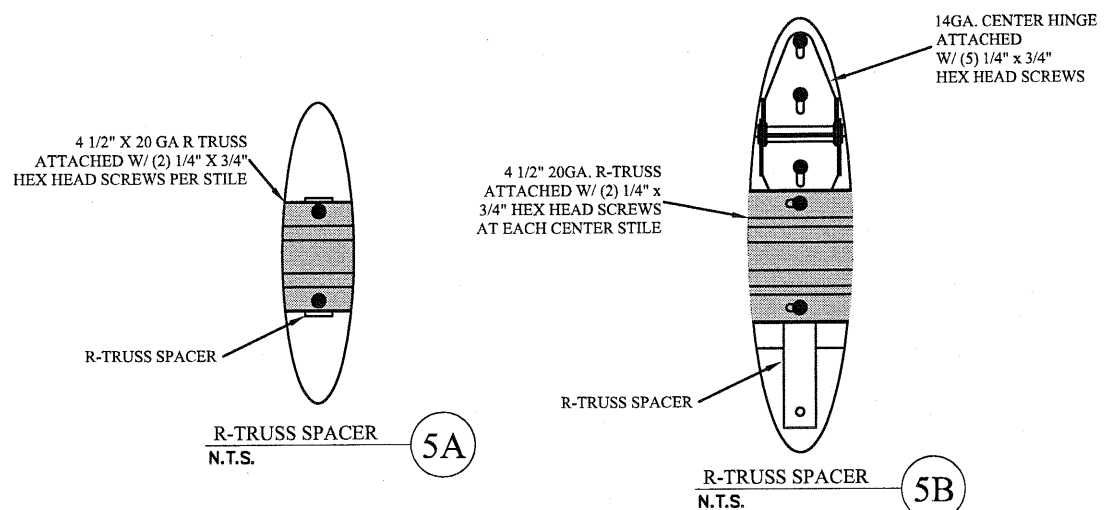
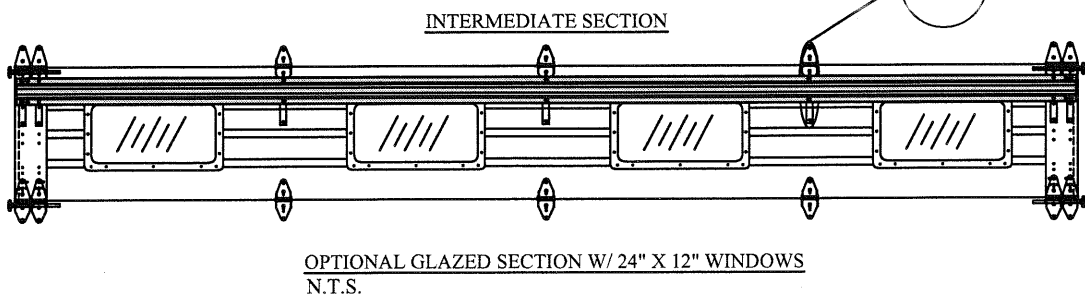
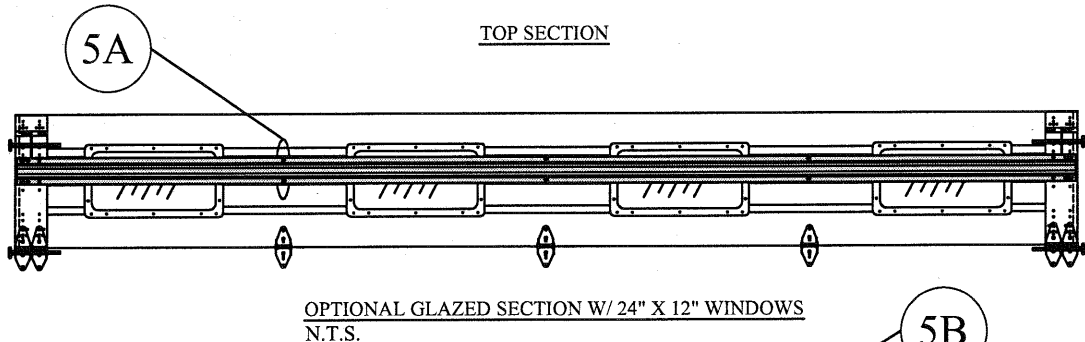
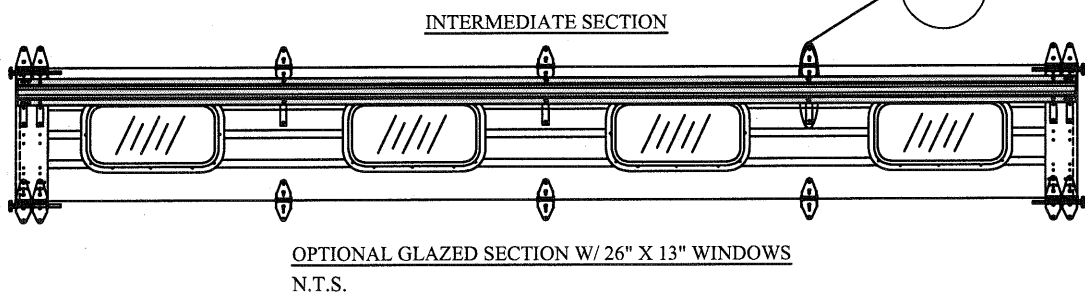
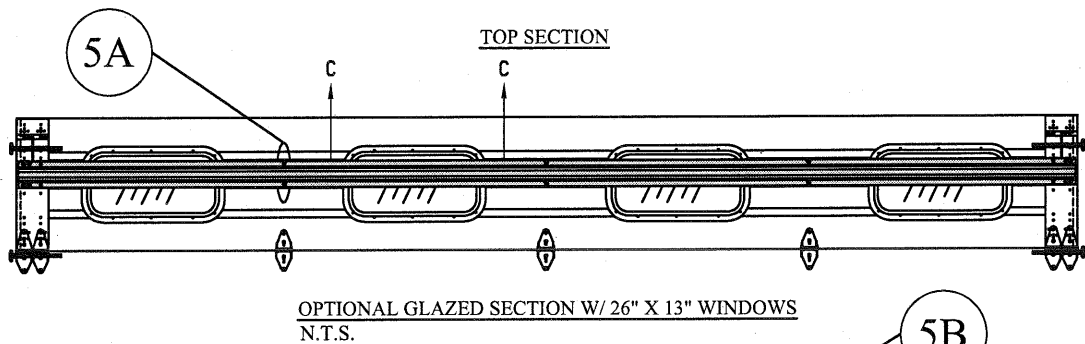
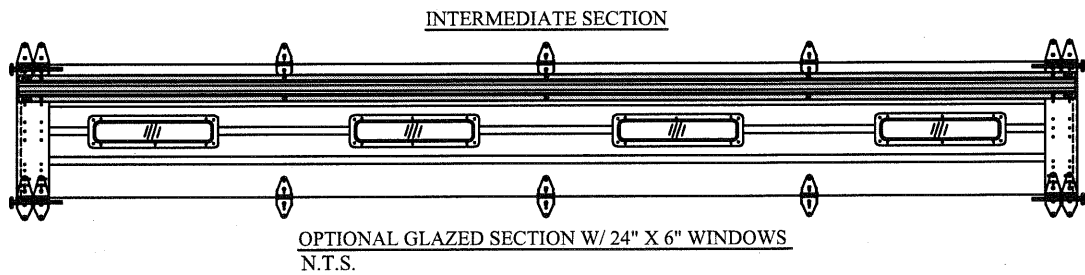
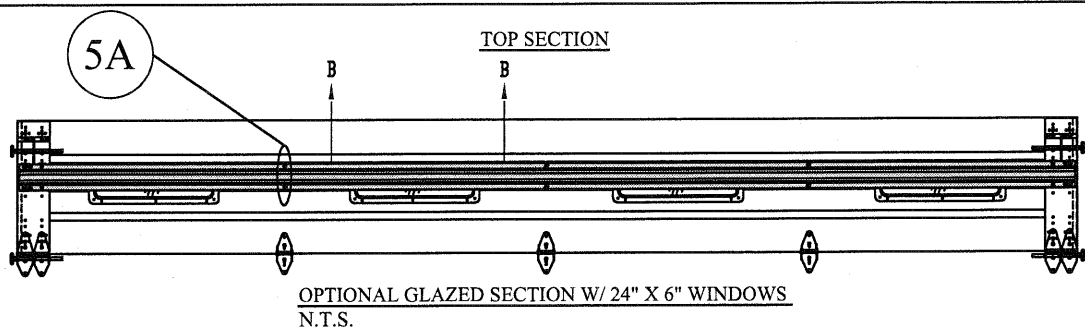
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MODEL 2700 AMARR 2742, 2743
MODEL 2720 AMARR 2042

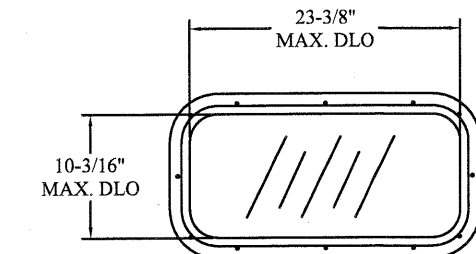
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B	CHECKED BY	RLR	DATE	02/09/16	IBC-2716-150-24

ENTREMATICS
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

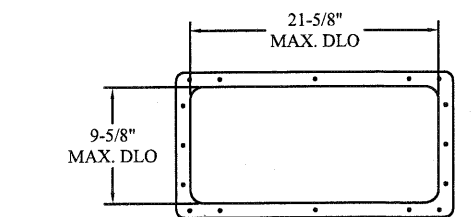
SHEET 2 OF 4



24" X 6" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.



26" X 13" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.

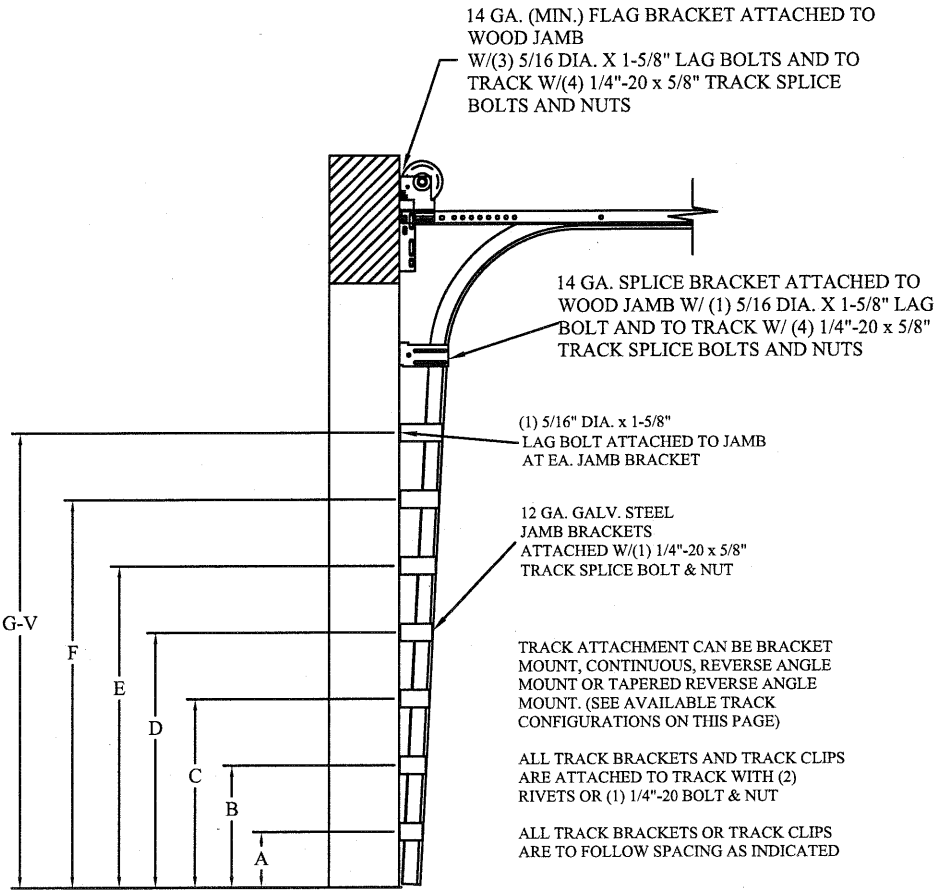


24" X 12" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.

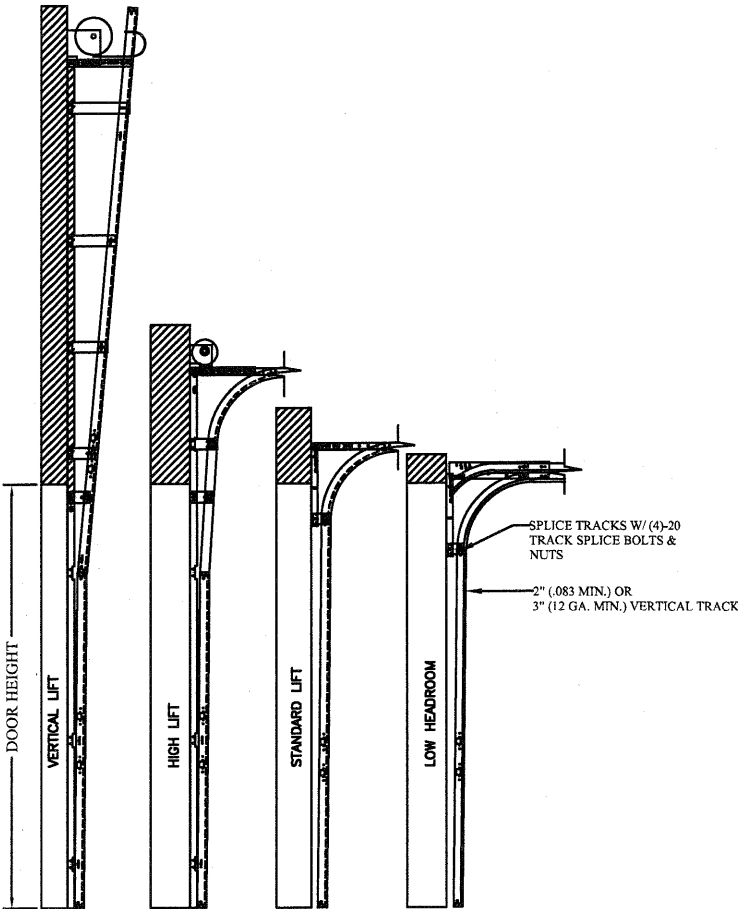
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE, 16'2" X 24' DESIGN LOADS +31.3 PSF -35.4 PSF TEST LOADS +47.0 PSF -53.1 PSF Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL Thomas L. Shelmerdine LICENSE No. 48579 3/24/20 STATE OF FLORIDA PROFESSIONAL ENGINEER dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410			
Amarr			
MODEL 2700 AMARR 2742, 2743 MODEL 2720 AMARR 2042			
SIZE	DRAWN BY	RLR	DATE 02/09/16
B	CHECKED BY	RLR	DATE 02/09/16
ENTREMATICS			DRAWING NUMBER
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			IBC-2716-150-24
SHEET 3 OF 4			

TABLE 1

Section Width (ft)	Center Stile Locations (Measured from Left)			Max Design Loads Allowed	
	1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negative (PSF)
9' 4"	36"	76"	-	39.7	44.9
9' 6"	37"	77"	-	39.2	44.3
9' 8"	38"	78"	-	38.7	43.8
9' 10"	39"	79"	-	38.2	43.2
10' 0"	40"	80"	-	37.7	42.7
10' 2"	41"	81"	-	37.2	42.1
10' 4"	42"	82"	-	36.8	41.6
10' 6"	43"	83"	-	36.3	41.1
10' 8"	44"	84"	-	35.9	40.6
10' 10"	45"	85"	-	35.5	40.1
11' 0"	46"	86"	-	35.1	39.7
11' 2"	47"	87"	-	34.7	39.2
11' 4"	48"	88"	-	34.3	38.8
11' 6"	49"	89"	-	33.9	38.3
11' 8"	50"	90"	-	33.5	37.9
11' 10"	51"	91"	-	33.1	37.5
12' 0"	48"	96"	-	31.4	35.5
12' 2"	49"	97"	-	31.1	35.2
12' 4"	50"	98"	-	30.8	34.8
12' 6"	51"	99"	-	30.5	34.5
12' 8"	52"	100"	-	30.2	34.1
12' 10"	53"	101"	-	29.9	33.8
13' 0"	36"	78"	120"	35.9	40.6
13' 2"	37"	79"	121"	35.9	40.6
13' 4"	38"	80"	122"	35.9	40.6
13' 6"	39"	81"	123"	35.9	40.6
13' 8"	40"	82"	124"	35.9	40.6
13' 10"	41"	83"	125"	35.9	40.6
14' 0"	42"	84"	126"	35.9	40.6
14' 2"	43"	85"	127"	35.5	40.1
14' 4"	44"	86"	128"	35.1	39.7
14' 6"	45"	87"	129"	34.7	39.2
14' 8"	46"	88"	130"	34.3	38.8
14' 10"	47"	89"	131"	33.9	38.3
15' 0"	48"	90"	132"	33.5	37.9
15' 2"	49"	91"	133"	33.1	37.5
15' 4"	50"	92"	134"	32.8	37.1
15' 6"	51"	93"	135"	32.4	36.7
15' 8"	52"	94"	136"	32.1	36.3
15' 10"	53"	95"	137"	31.7	35.9
16' 0"	48"	96"	144"	31.4	35.5
16' 2"	49"	97"	145"	31.3	35.4



TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
SEE TABLE 2



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 2

DOOR																						SPLICE	
HEIGHT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	S
7'	10"	22"	34"	46"	58"																		76"
8'	10"	22"	34"	46"	58"	70"																	88"
9'	10"	22"	34"	46"	58"	70"	82"																100"
10'	10"	22"	34"	46"	58"	70"	82"	94"															112"
11'	10"	22"	34"	46"	58"	70"	82"	94"	106"														124"
12'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"													136"
13'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"												148"
14'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"											160"
15'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"										172"
16'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"									184"
17'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"								196"
18'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"							208"
19'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"						220"
20'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"					232"
21'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"				244"
22'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"			256"
23'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"		268"
24'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"	280"

ALL TRACK ATTACHMENTS +/- 2" ALLOWED USING SYP OR SPF NO.2 OR BETTER ONLY

REVDESCRIPTION OF REVISIONSDATEBY

MAX SIZE, 16'2 x 24'

DESIGN LOADS
+31.3 PSF
-35.4 PSF

TEST LOADS
+47.0 PSF
-53.1 PSF

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THOMAS L. SHELMERDINE

LICENSE

No. 48579

12/29/20

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FL

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr

MODEL 2700 AMARR 2742, 2743
MODEL 2720 AMARR 2042

SIZE

B

DRAWN BY

RLR

CHECKED BY

RLR

DATE

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DRAWING NUMBER

IBC-2716-150-24

ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 4 OF 4