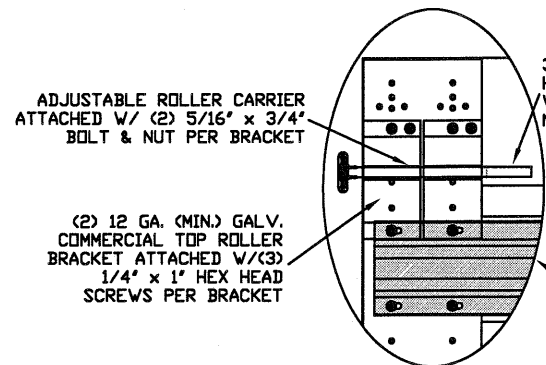
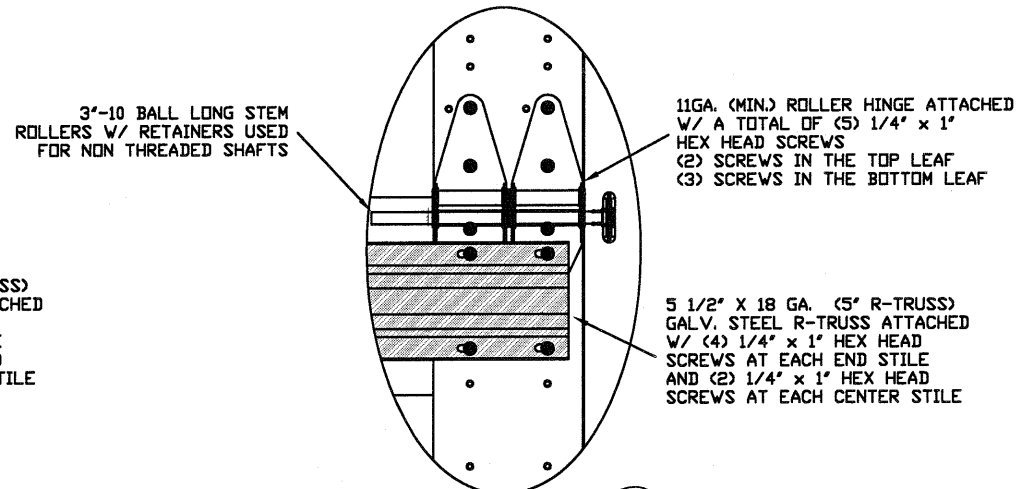
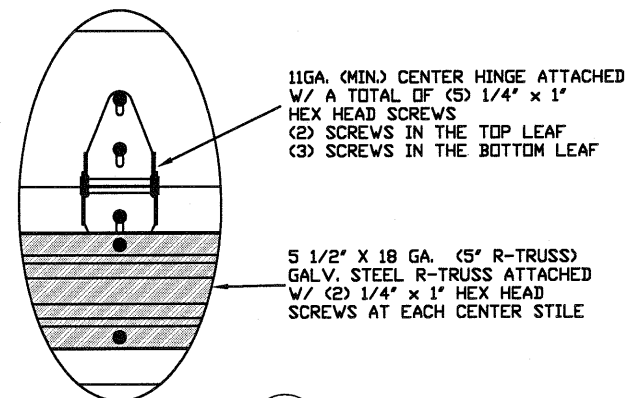




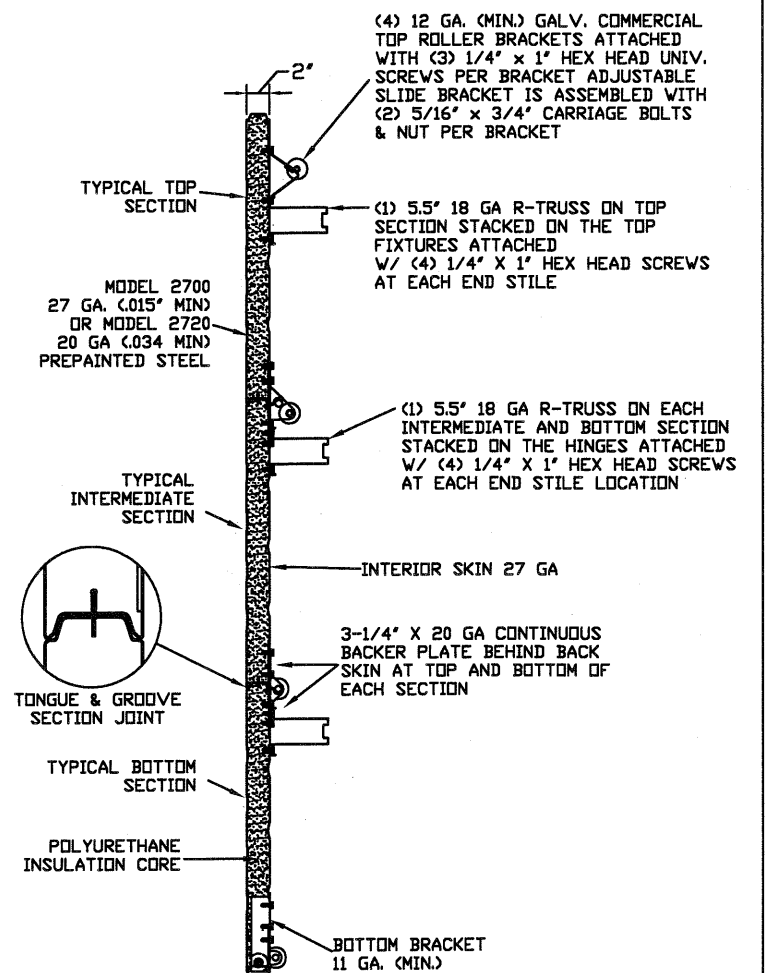
TYPICAL TOP FIXTURES
N.T.S.



TYPICAL END HINGE
N.T.S.



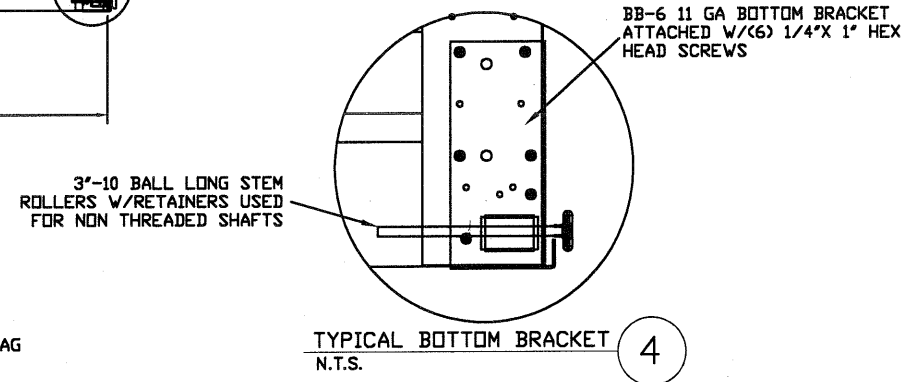
TYPICAL CENTER HINGE
N.T.S.



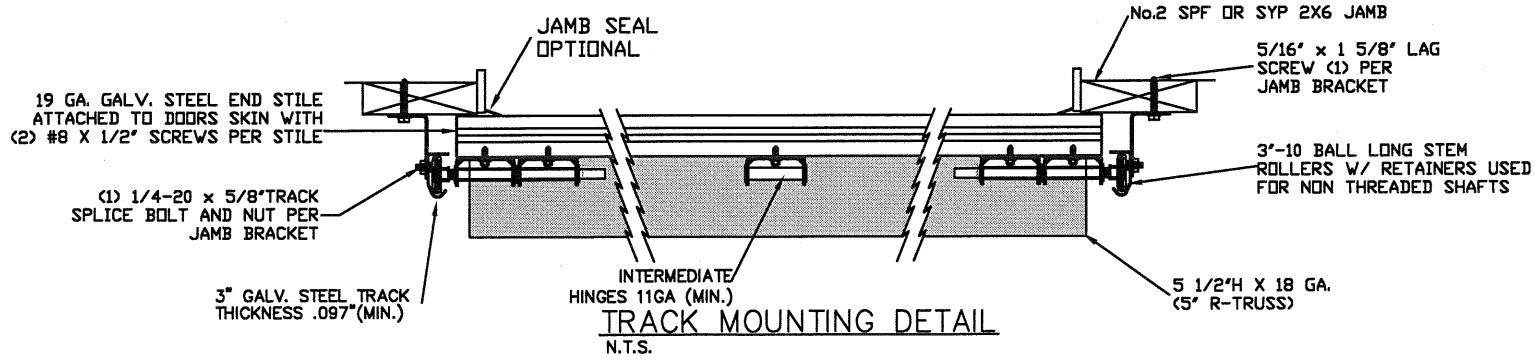
SECTION A-A (SIDE VIEW)



INSIDE ELEVATION
N.T.S.



TYPICAL BOTTOM BRACKET
N.T.S.



TRACK MOUNTING DETAIL
N.T.S.

EDGE OF DOOR 1" OVERLAP ON EACH SIDE

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN AND 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)	136	123	117	112	107
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE	24'2" x 24'		
DESIGN LOADS	+14.7 PSF -16.5 PSF		
TEST LOADS	+22.1 PSF -24.8 PSF		

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

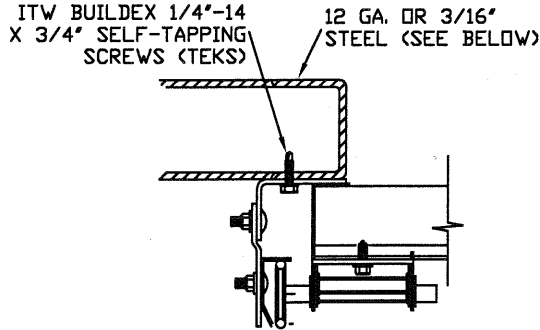
THOMAS L. SHELMERDINE
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PROFESSIONAL ENGINEER
FL

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

Amarr

MODEL 2700 AMARR 2742 MODEL 2720 AMARR 2042 MODEL 2743 AMARR 2743						
SIZE	DRAWN BY	RS	DATE	03/04/15	DRAWING NUMBER	IBC-2724-104-26
B	CHECKED BY	RLR	DATE	03/04/15		
ENTREMATIC						
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105						SHEET 1 OF 4

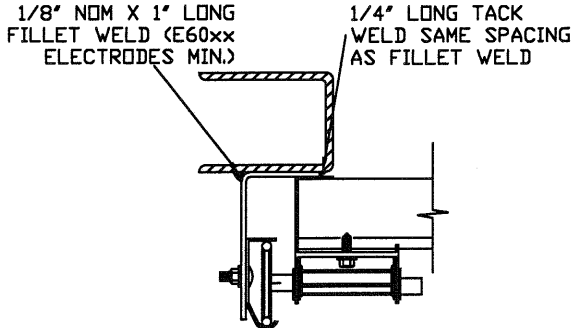
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

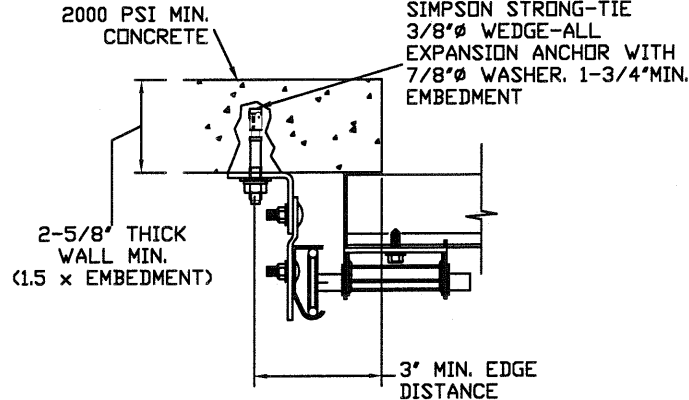
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6"
FROM ENDS AND 12" O.C.
REFER TO NOTES: 1, 2 AND 5

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



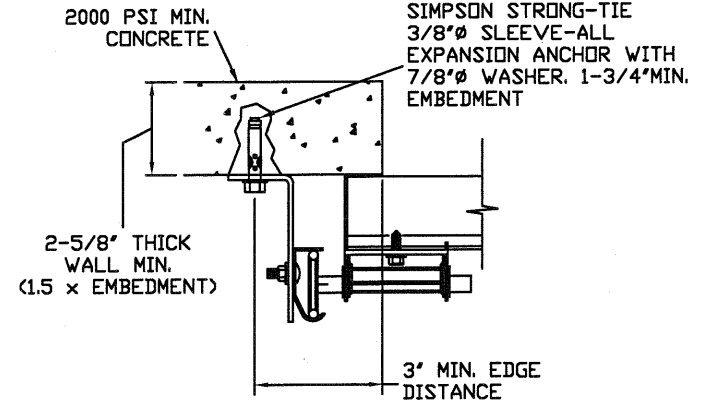
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND
TAPERED ANGLE MOUNT AVAILABLE

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 18" 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 18" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

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 24" 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 24" 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 16" 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 16" O.C. (1 1/4" EMBEDMENT)

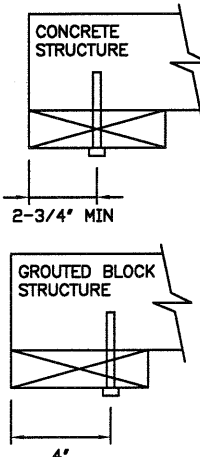
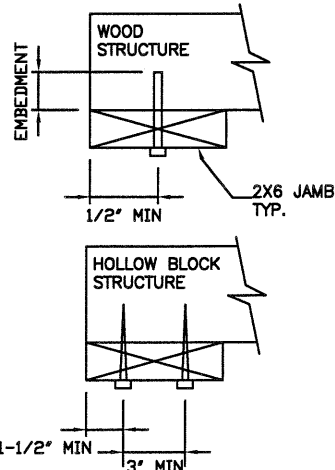
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)

HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS
THEN 24" O.C. (1 1/4" EMBEDMENT)

(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

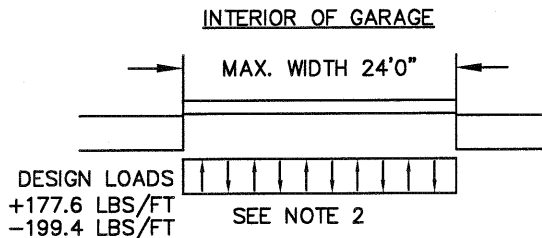
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

*PREPARATION OF WOOD JAMBS BY OTHERS



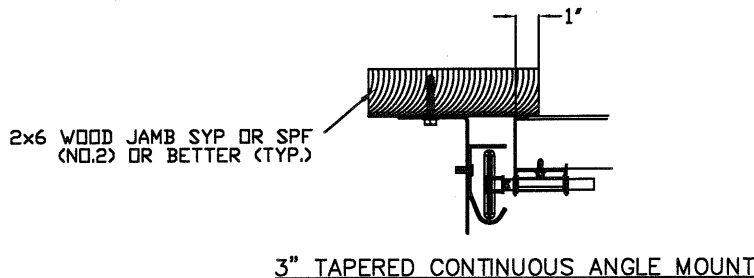
NOTES:

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. EDGE 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.



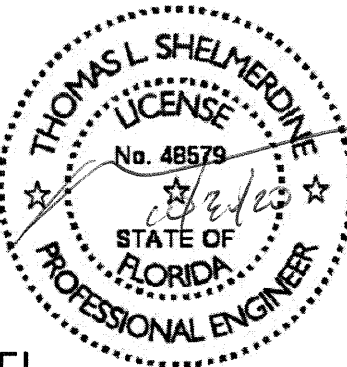
TRACK CONNECTION TO WOOD JAMB OPTIONS

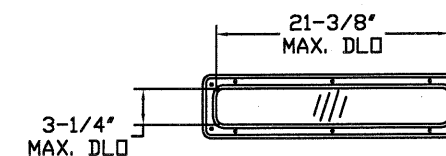
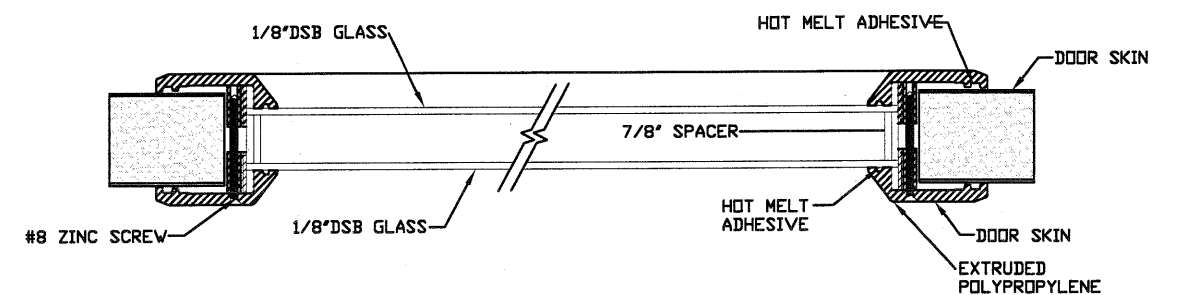
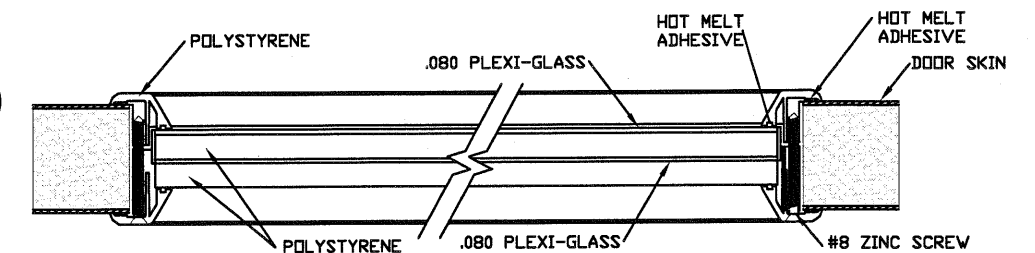
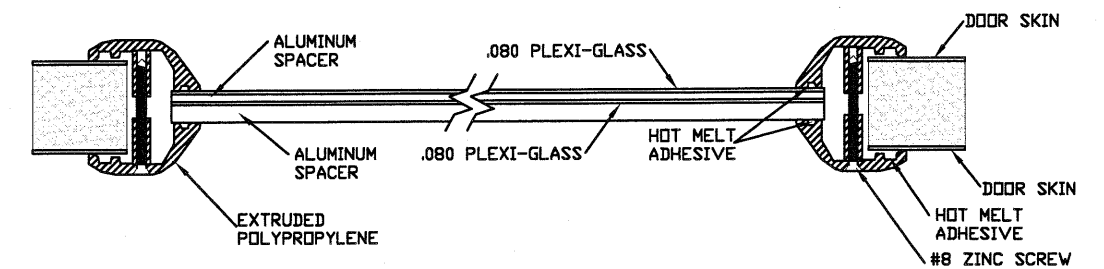
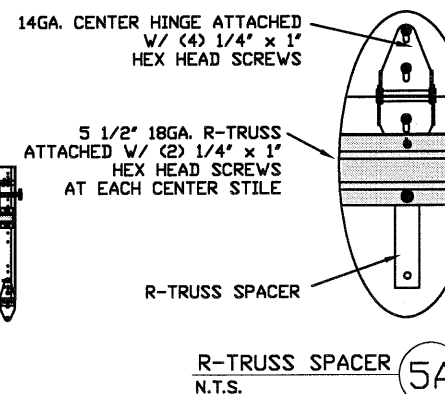
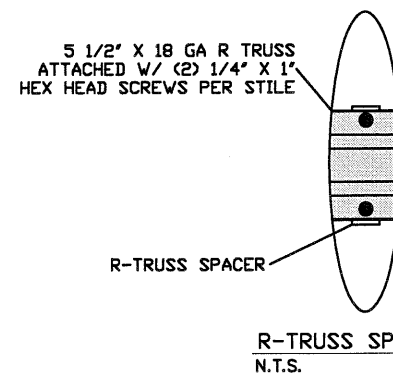
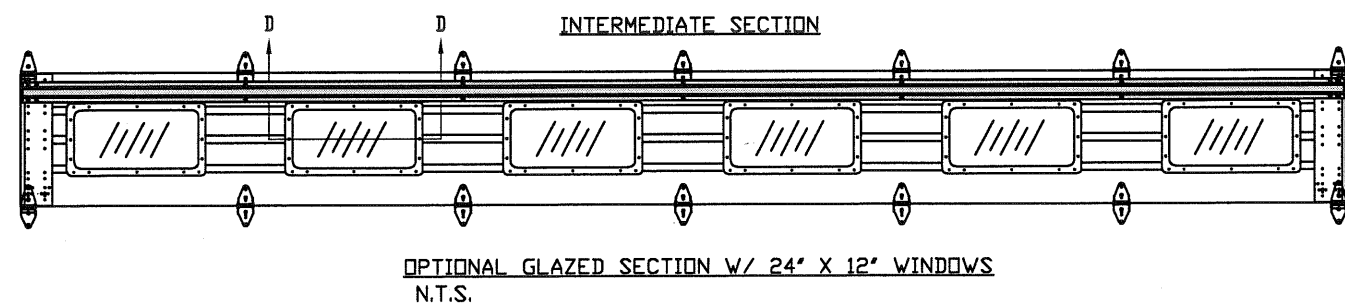
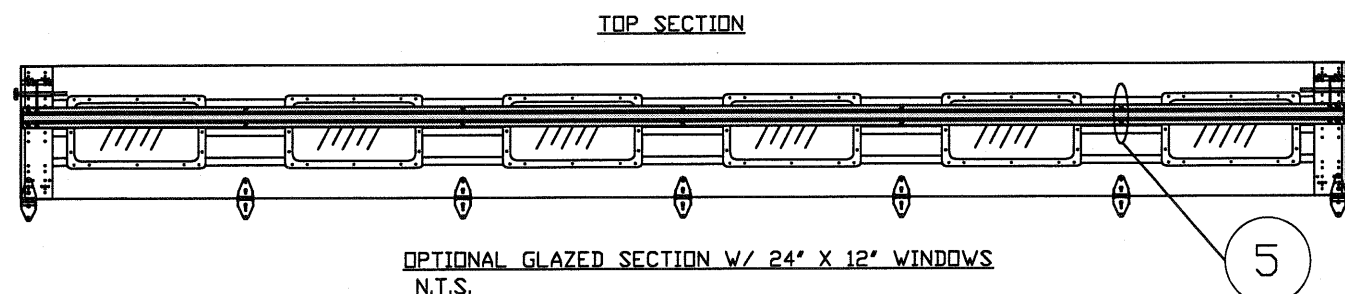
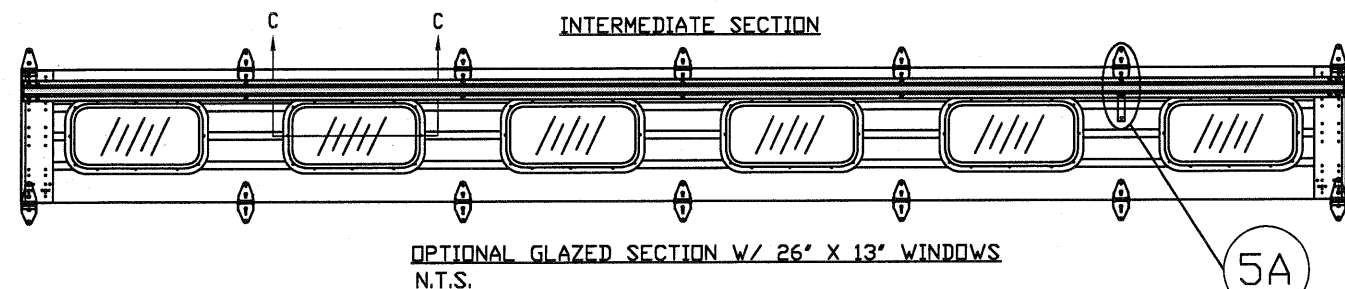
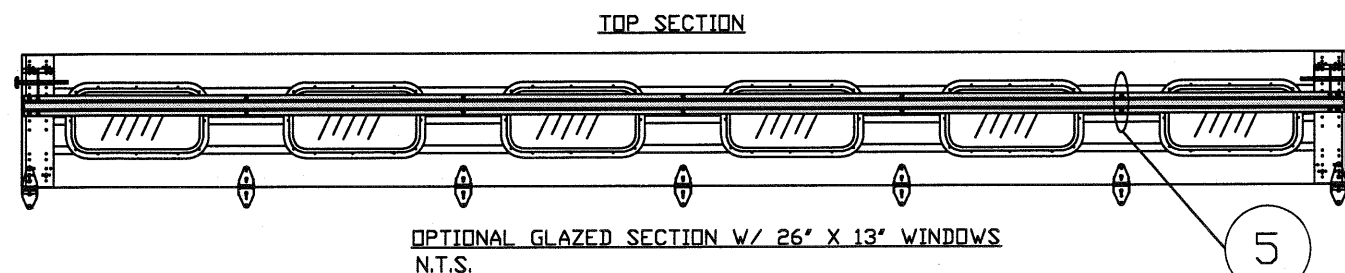
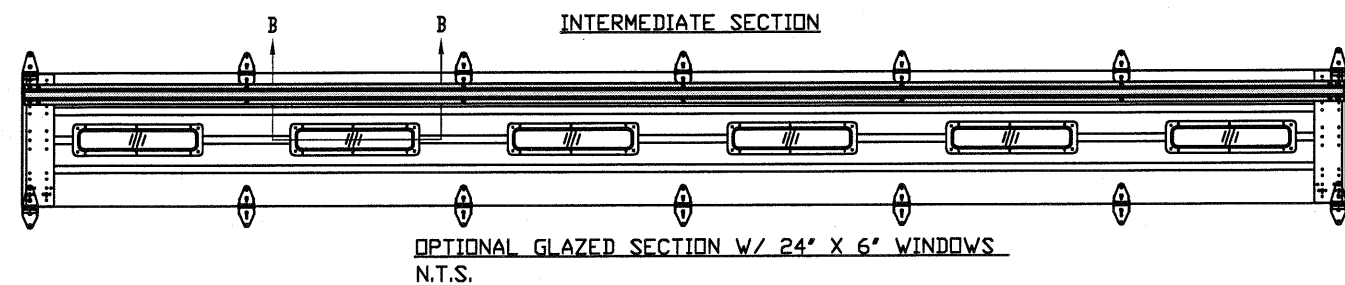
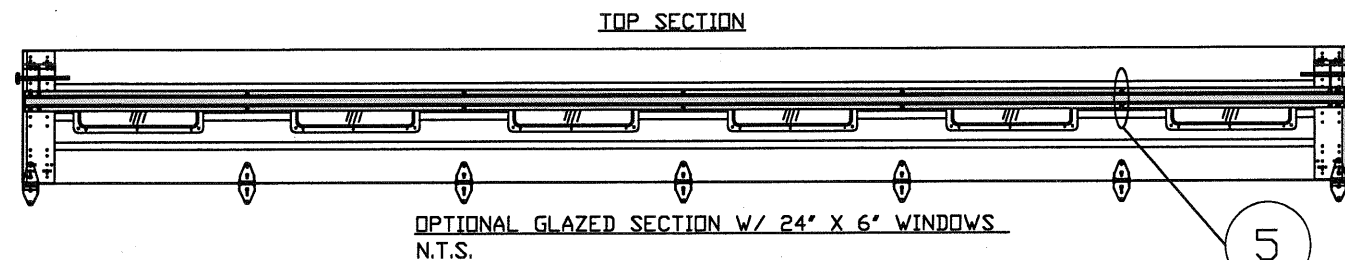
FOR LAG SCREWS & BRACKET SPACING SEE PAGE 4 FOR TRACK CONFIGURATION DETAIL



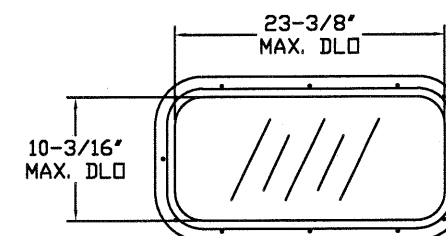
SPECIFICATIONS AND NOTES

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:
+177.6 LBS/FT & -199.4 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) 5.5" 18GA R-TRUSS PER 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.

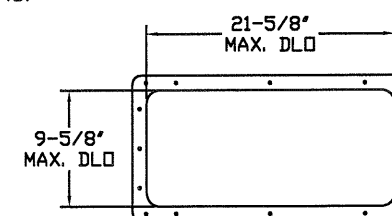
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE, 24'2 x 24' DESIGN LOADS +14.7 PSF -16.5 PSF TEST LOADS +22.1 PSF -24.8 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL 2700 AMARR 2742 MODEL 2720 AMARR 2042 MODEL 2743 AMARR 2743			
SIZE	DRAWN BY	RS	DATE 03/04/15
B	CHECKED BY	RLR	DATE 03/04/15
ENTREMATRIC			DRAWING NUMBER
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			IBC-2724-104-26
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.

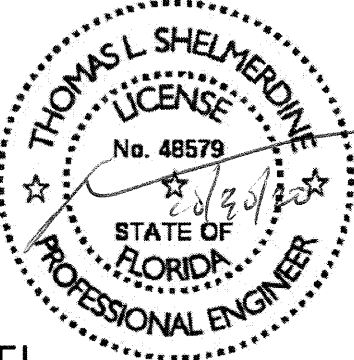
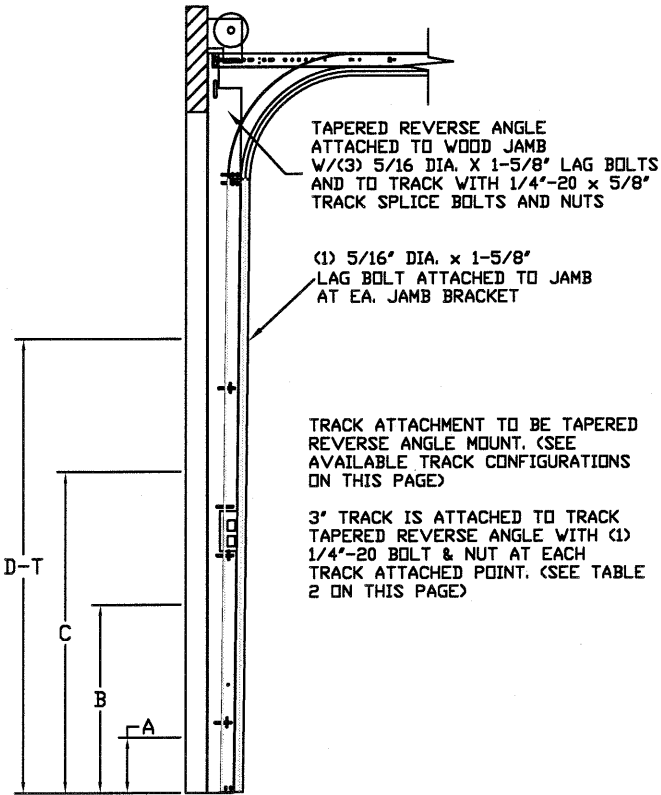
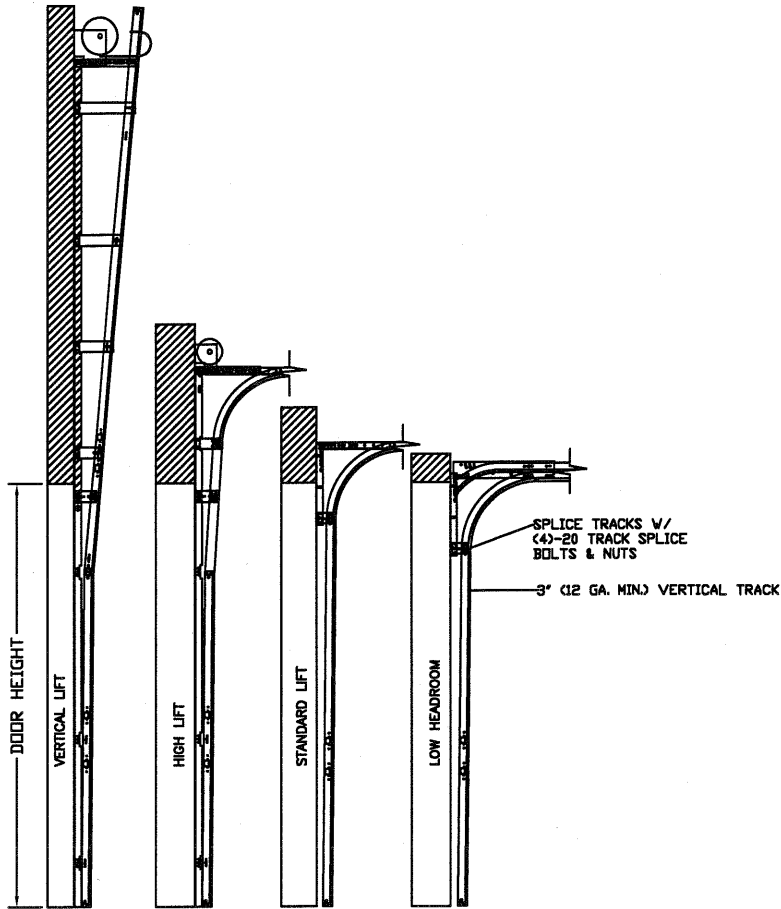
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 24'2 x 24' DESIGN LOADS +14.7 PSF -16.5 PSF TEST LOADS +22.1 PSF -24.8 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL 2700 AMARR 2742 MODEL 2720 AMARR 2042 MODEL 2743 AMARR 2743			
SIZE	DRAWN BY	RS	DATE 03/04/15
B	CHECKED BY	RJR	DATE 03/04/15
ENTREMATRIC 165 CARRIAGE COURT WINSTON-SALEM, NC. 27105			DRAWING NUMBER IBC-2724-104-26
SHEET 3 OF 4			SHEET 3 OF 4

TABLE 1

Section Width		Center Stile Locations (Measured from Left Edge)					Max Design Loads Allowed	
(ft)	(in)	1st (in)	2nd (in)	3rd (in)	4th (in)	5th (in)	Positive (PSF)	Negative (PSF)
19'	4	36	76	116	156	196	17.8	20
19'	6	37	77	117	157	197	17.8	20
19'	8	38	78	118	158	198	17.8	20
19'	10	39	79	119	159	199	17.8	20
20'	0	40.0	80	120	160	200	17.7	19.9
20'	2	41.0	81	121	161	201	17.6	19.7
20'	4	42	82	122	162	202	17.3	19.5
20'	6	43	83	123	163	203	17.1	19.2
20'	8	44	84	124	164	204	16.9	19
20'	10	45	85	125	165	205	16.7	18.8
21'	0	46	86	126	166	206	16.5	18.6
21'	2	47	87	127	167	207	16.3	18.3
21'	4	48	88	128	168	208	16.2	18.1
21'	6	49	89	129	169	209	16	17.9
21'	8	50	90	130	170	210	15.8	17.7
21'	10	51	91	131	171	211	15.6	17.5
22'	0	44	88	132	176	220	16.1	18.1
22'	2	45	89	133	177	221	16	17.9
22'	4	46	90	134	178	222	15.8	17.7
22'	6	47	91	135	179	223	15.6	17.5
22'	8	48	92	136	180	224	15.4	17.3
22'	10	49	93	137	181	225	15.3	17.2
23'	0	50	94	138	182	226	15.1	17
23'	2	51	95	139	183	227	15	16.8
23'	4	44	92	140	188	236	14.8	16.6
23'	6	45	93	141	189	237	14.8	16.6
23'	8	46	94	142	190	238	14.8	16.6
23'	10	47	95	143	191	239	14.8	16.6
24'	0	48	96	144	192	240	14.8	16.6
24'	2	49	97	145	193	241	14.7	16.5



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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 2

DOOR HEIGHT		TRACK ATTACHMENT																				TYPICAL
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	SPLICE
7'	0"	10.0"	22"	34"	58"																	76"
7'	6"	10.0"	22"	34"	58"																	82"
8'	0"	10.0"	22"	34"	58"																	88"
9'	0"	10.0"	22"	34"	58"	70"																100"
9'	6"	10.0"	22"	34"	58"	70"	82"															106"
10'	0"	10.0"	22"	34"	58"	70"	82"															112"
11'	0"	10.0"	22"	34"	58"	70"	82"	94"														124"
12'	0"	10.0"	22"	34"	58"	70"	82"	94"	106"													136"
13'	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"												148"
14'	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"											160"
15'	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"	142"										172"
16'	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"	142"	154"									184"
17'	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"								196"
18'	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"							208"
19'	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"						220"
20'	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"					232"
21	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"				244"
22	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"			256"
23	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"		268"
24	0"	10.0"	22"	34"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	280"

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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
24'2 x 24'

DESIGN LOADS
+14.7 PSF
-16.5 PSF

TEST LOADS
+22.1 PSF
-24.8 PSF

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

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LICENSE
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Amarr

MODEL 2700 AMARR 2742
MODEL 2720 AMARR 2042
MODEL 2743 AMARR 2743

SIZE	DRAWN BY	RS	DATE	03/04/15	DRAWING NUMBER
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ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 4 OF 4