

CLOPAY MODEL 3200 (24 GA MIN EXT SKIN) HOLMES MODEL 240, 240G (24 GA MIN EXT SKIN)
CLOPAY MODEL 3220 (20 GA MIN EXT SKIN)

SHEET:
1 OF 4

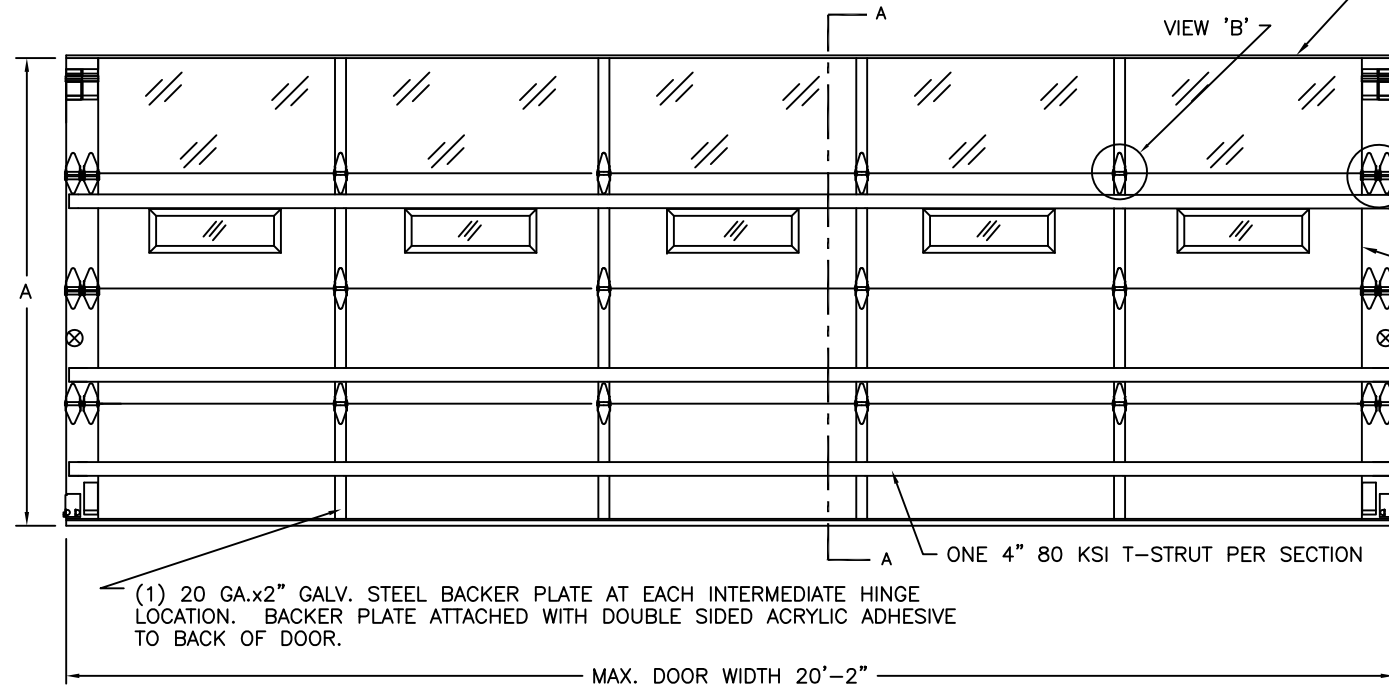
REVISIONS

REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
00	-	7/19/16	-	SH	BASED ON 101682-R08.
01	-	7/6/17	-	-	SPECIFIED 1/4"x1" SCREWS FOR FULL VISION T-STRUTS
02	-	6/7/22	ER1409	TES	UPDATED FV SECTION REINFORCEMENT INFORMATION

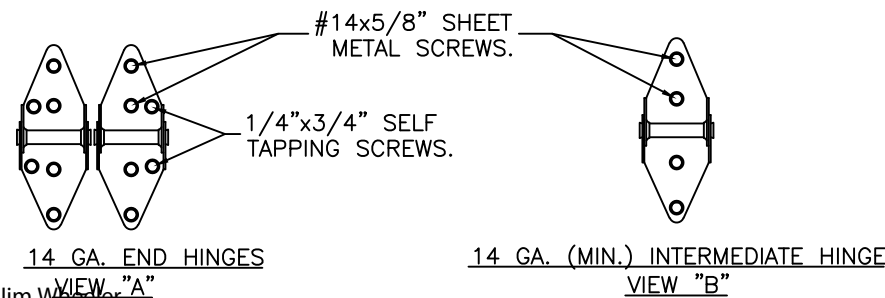
OPTIONAL ALUMINUM FULL VIEW SECTIONS AVAILABLE.
OPTIONAL ACRYLIC IS PLASKOLITE OPTIX, AN APPROVED
CC2 PLASTIC IN COMPLIANCE WITH IBC/FBC 2606 REF.
TABLE BELOW FOR FV SECTION REINFORCEMENT
REQUIREMENTS.

MODEL	WIDTH	GLAZING TYPE	REINFORCEMENT
'CONTEMPORARY' FV200/FV200U	14' 4" - 16' 2"	ALL TYPES	(1) 1-1/4" ALUM. ANGLE/SECTION
	16' 4" - 18' 2"		(1) 2" ALUM. ANGLE/SECTION
	18' 4" - 20' 2"		(1) 3" X 2" ALUM. ANGLE/SECTION

OPTIONAL 24" X 8" DSB GLASS, INSULATED GLASS
OR ACRYLIC WINDOW LITES. OPTIONAL ACRYLIC IS PLASKOLITE OPTIX, AN APPROVED
CC2 PLASTIC IN COMPLIANCE WITH IBC/FBC 2606.

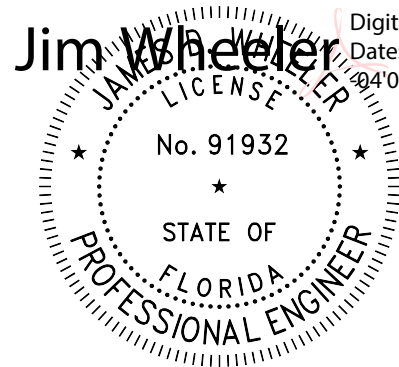


DOOR HEIGHT 'A'	NUMBER OF SECTIONS
UP TO 8'-0"	4
8'-3" THRU 10'-0"	5
10'-3" THRU 12'-0"	6
12'-3" THRU 14'-0"	7
14'-3" THRU 16'-0"	8
16'-3" THRU 18'-0"	9

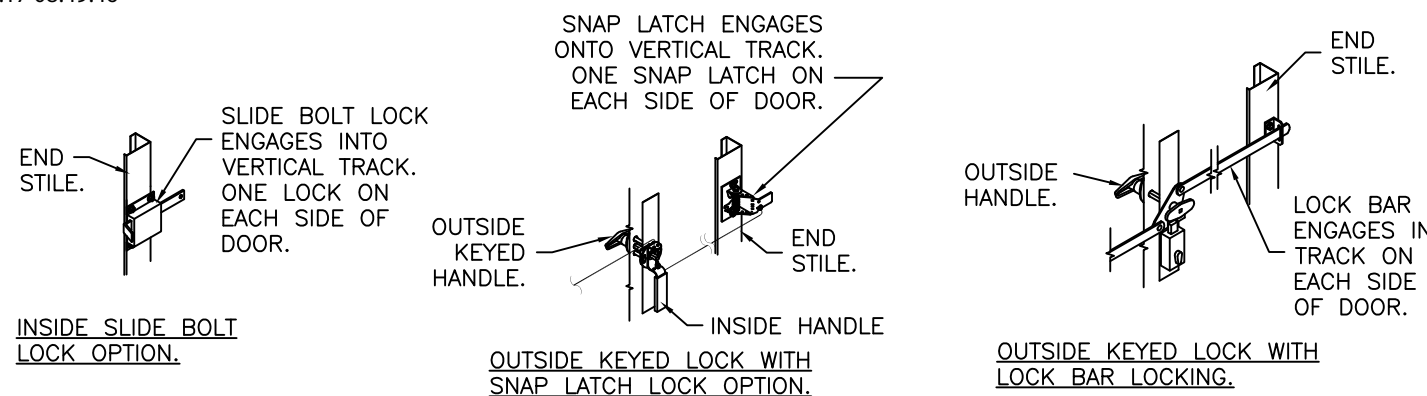


THIS DOOR MEETS OR EXCEEDS THE DESIGN LOADS FOR THE
ULTIMATE WIND SPEEDS LISTED BELOW ACCORDING TO THE FLORIDA
BUILDING CODE OR THE INTERNATIONAL BUILDING CODE (BASED ON
ASCE7-10) FOR THE FOLLOWING CONDITIONS: 1) ENCLOSED
BUILDING, 2) DOOR HAS 2' OF WIDTH IN BUILDING'S END ZONE, 3)
ANY ROOF SLOPE, AND 4) TESTING IN ACCORDANCE WITH
ANSI/DASMA 108. SITE-SPECIFIC CALCULATIONS BY A QUALIFIED
DESIGN PROFESSIONAL MAY DIFFER.

ULTIMATE WIND SPEED (MPH)	130	140	145	150	165
EXPOSURE CATEGORY	B, C, D	B, C, D	B, C	B, C	B
MEAN ROOF HEIGHT	25'	15'	25'	15'	30'



Digitally signed by Jim Wheeler
Date: 2026.08.17 08:49:46
+04'00'



DESIGN LOADS: +25.0 P.S.F. & -28.0 P.S.F.
TEST LOADS: +37.5 P.S.F. & -42.0 P.S.F.

Unless Stated Otherwise
TOLERANCES are
.0 = ±.031
.00 = ±.015
.000 = ±.005
.0000 = ±.001
Degrees = ±1/2"

Unless Stated Otherwise
DIMENSIONS ARE IN INCHES.

Clopay
Building Products Company
8585 Duke Boulevard
Mason, OH 45040 USA
Tel. No. 513-770-4800
Fax No. 513-770-4853

MANUFACTURING PRODUCT CODE
C-DSIE-1F447

PART NO.: N/A

WINDLOAD RATING
W4 DP25

DESCRIPTION: COMM 2" EPS: +25/-28 PSF

DRAWN BY: RH	DATE: 7/19/16	SCALE: NTS	DWG. SIZE B
CHECKED BY: SH	DATE: -----	SHEET 1 OF 4	
DWG. NO.: 105198	VER: IBC		

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CLOPAY MODEL 3220 (20 GA MIN EXT SKIN)

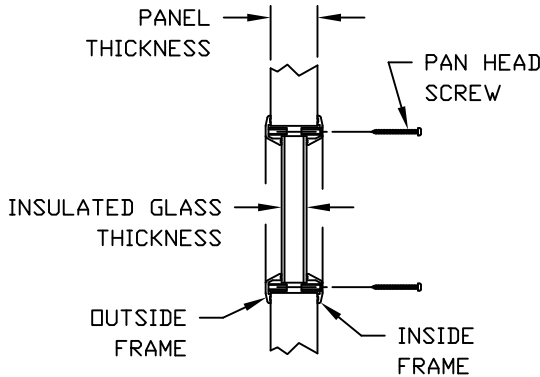
SHEET:
2 OF 4

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
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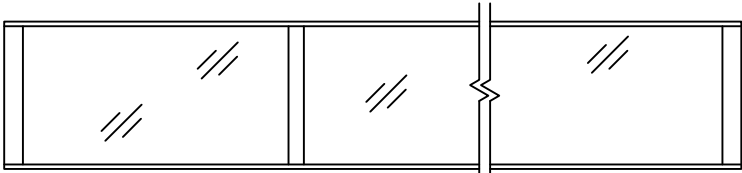
THE OPTIONAL GLAZING SHOWN ON THIS DRAWING MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 FBC/IBC)

STANDARD ASSEMBLY CONSTRUCTION:
OPTIONAL LITES WITH DSB OR TEMPERED INSULATED GLAZING AVAILABLE. OPTIONAL FULL VISION SECTIONS WITH DSB OR BETTER GLAZING AVAILABLE.
THE ENTIRE DOOR ASSEMBLY INSTALLED IN COMPLIANCE WITH THIS SECTION MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 FBC/IBC).

SECTION B-B
(NON-IMPACT-RESISTANT
GLAZING OPTION)



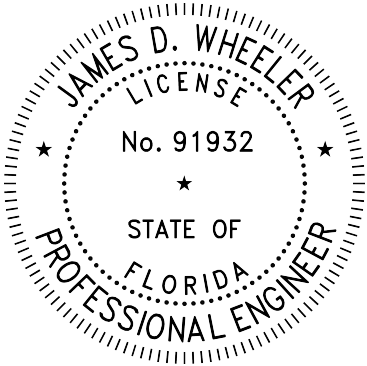
NON-IMPACT-RESISTANT
FULL VISION SECTION OPTION



OPTIONAL ALUMINUM FULL VISION WINDOW LITE SECTIONS AVAILABLE.
OPTIONAL ACRYLIC IS PLASKOLITE OPTIX, AN APPROVED CC2 PLASTIC IN COMPLIANCE WITH IBC/FBC 2606. REF. TABLE BELOW FOR FV SECTION REINFORCEMENT REQUIREMENTS.

MODEL	WIDTH	GLAZING TYPE	REINFORCEMENT
'CONTEMPORARY' FV200/FV200U	14' 4" - 16' 2"	ALL TYPES	(1) 1-1/4" ALUM. ANGLE/SECTION
	16' 4" - 18' 2"		(1) 2" ALUM. ANGLE/SECTION
	18' 4" - 20' 2"		(1) 3" X 2" ALUM. ANGLE/SECTION

STANDARD ASSEMBLY DETAILS



DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932

DESIGN LOADS: +25.0 P.S.F. & -28.0 P.S.F.
TEST LOADS: +37.5 P.S.F. & -42.0 P.S.F.

Unless Stated Otherwise
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DRAWN BY: RH

DATE: 7/19/16

SCALE: NTS

DWG. B
SIZE B

CHECKED BY: SH

DATE: -----

SHEET 2 OF 4

DWG. NO.: 105198

VER: IBC

MANUFACTURING PRODUCT CODE
C-DSIE-1F447

PART NO.: N/A

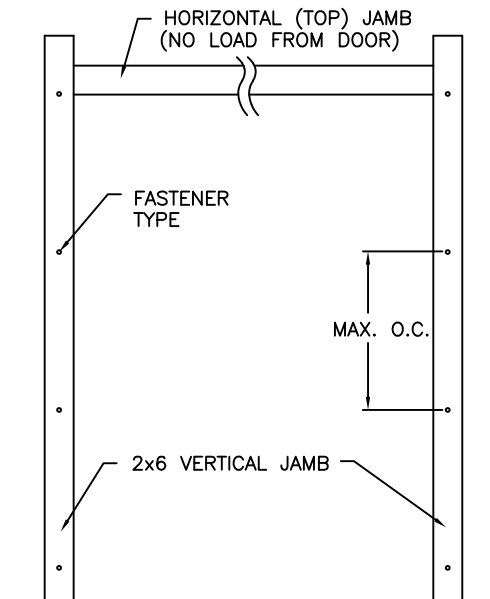
WINDLOAD RATING
W4 DP25

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SHEET:
3 OF 4

REVISIONS

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01	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

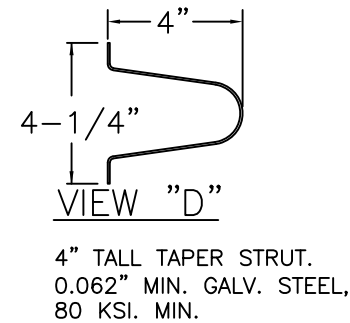


JAMB TO SUPPORTING STRUCTURE ATTACHMENT

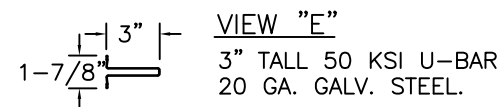
NOTES:

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x6 VERTICAL SYP (GRADE #2 OR BETTER) JAMBS. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) JAMB.
2. EACH VERTICAL JAMB SEES A MAXIMUM DESIGN LOAD OF +250 LB & -280 LB. PER LINEAR FOOT OF JAMB.
3. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
4. A 1/3 STRESS INCREASE FOR WIND LOAD WAS NOT USED IN THE CALCULATION OF ALLOWABLE LOADS FOR ANCHORS AND FASTENERS FOR STEEL, CONCRETE AND MASONRY.

NOTE: 2x6 WOOD JAMBS ARE NOT REQUIRED WITH CONTINUOUS ANGLE MOUNT TRACK. HOWEVER, IF DESIRED ON STEEL JAMBS OR CONCRETE OR BLOCK WALLS, APPROVED FASTENERS AS DETAILED BELOW SHOULD BE INCREASED IN LENGTH BY 1-1/2" AND INSTALLED DIRECTLY THROUGH THE ANGLE AND 2x6 WOOD JAMBS INTO THE STEEL JAMBS OR CONCRETE OR BLOCK WALLS. ANCHORS CAN BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE. CONTINUOUS ANGLE TRACK CAN BE ANCHORED DIRECTLY TO GROUT REINFORCED BLOCK WALL OR 3,000 PSI MIN. CONCRETE COLUMN OR STEEL JAMBS.



TONGUE AND GROOVE JOINTS



24 GA. MIN. EXTERIOR STEEL SKIN WITH GALV. BAKED-ON PRIMER AND A BAKED-ON POLYESTER TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN.

SILICONE FILLED CHANNEL SEPARATES FRONT AND BACK SKIN OF DDOR

2" THICK

1.95" THICK, 1# DENSITY EXPANDED POLYSTYRENE FOAM INSULATION LAMINATED TO BOTH EXTERIOR AND INTERIOR SKINS.

12 GA. GALV. STEEL TOP ROLLER BRACKET. EACH BRACKET ATTACHED W/(4) #14x5/8" SHEET METAL SCREWS. ADJUSTABLE SLIDE ATTACHED TO TOP BRACKET WITH (2) 1/4"x1/2" BOLTS AND NUTS PER BRACKET.

ONE 4" T-STRUT PER SECTION. SEE VIEW "D". EACH T-STRUT ATTACHED AT EACH STILE LOCATION WITH (2) 1/4"x3/4" SELF TAPPING SCREWS [(4) AT EACH DOUBLE END STILE]. (T-STRUTS ON FULL VISION SECTIONS TO BE ATTACHED WITH 1/4"x1" SELF TAPPING SCREWS.)

14 GA. GALV. STEEL ROLLER HINGE. EACH HINGE FASTENED TO END STILES W/(4) #14x5/8" SHEET SCREWS AND (2) 1/4"x3/4" SELF TAPPING SCREWS. (SEE VIEW A)

27 GA. INTERIOR SKIN WITH GALV., BAKED-ON PRIMER AND A BAKED-ON POLYESTER PAINTED TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN.

12 GA. GALV. STEEL BOTTOM BRACKET. ATTACHED WITH (4) #14x5/8" SHEET METAL SCREWS.

ALUMINUM EXTRUSION & VINYL WEATHERSTRIP.

SECTION A-A (SIDE VIEW)

FASTENER ATTACHMENT TO SUPPORTING STRUCTURE SCHEDULES

BUILDING TYPE	FASTENER TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED?
HOLLOW BLOCK WALL	1/4" x 1-1/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	6-1/2"	1" O.D.
GROUT FILLED BLOCK WALL	1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	11"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	9-1/2"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	9"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	20"	INCLUDED
4000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	24"	INCLUDED
WOOD FRAME (SYP 0.55 SG)	1/2" x 3" LAG SCREW (ASTM A307, GRADE A) 1-5/8" EMBED INTO STRUCTURE	21-3/4"	1" O.D.
14GA STEEL (0.060" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	9"	1" O.D.
12GA STEEL (0.105" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	16"	1" O.D.
1/8" STEEL	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	19"	1" O.D.

* 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.
CLOPAY DOES NOT SUPPLY JAMB ATTACHMENT FASTENERS.
MINIMUM DISTANCE BETWEEN CENTER OF ANCHOR AND EDGE OF CONCRETE BLOCK: 2-1/2", EXCLUDING STUCCO THICKNESS.

DESIGN LOADS: +25.0 P.S.F. & -28.0 P.S.F.
TEST LOADS: +37.5 P.S.F. & -42.0 P.S.F.

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PART NO.: N/A

WINDLOAD RATING
W4 DP25

DESCRIPTION: COMM 2" EPS: +25/-28 PSF

DRAWN BY: RH

DATE: 7/19/16

SCALE: NTS

DWG. B

CHECKED BY: SH

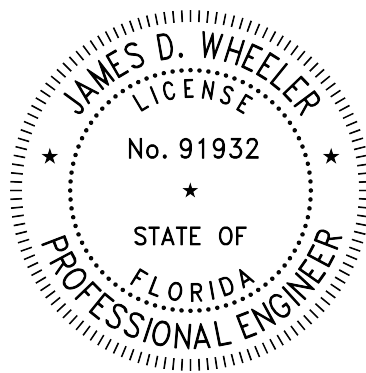
DATE: -----

SHEET 3 OF 4

SIZE B

DWG. NO.: 105198

VER: IBC



DESIGN ENGINEER:
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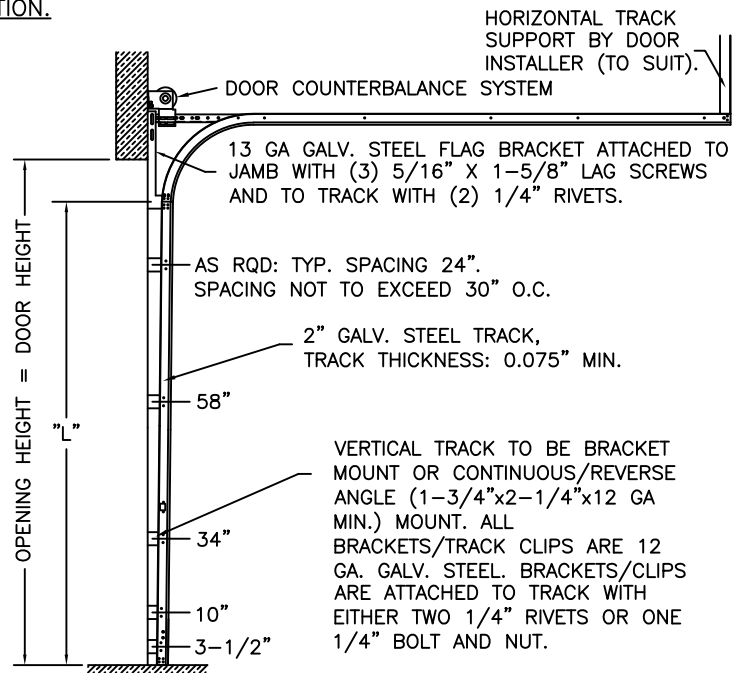
4 OF 4

REVISIONS

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01	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

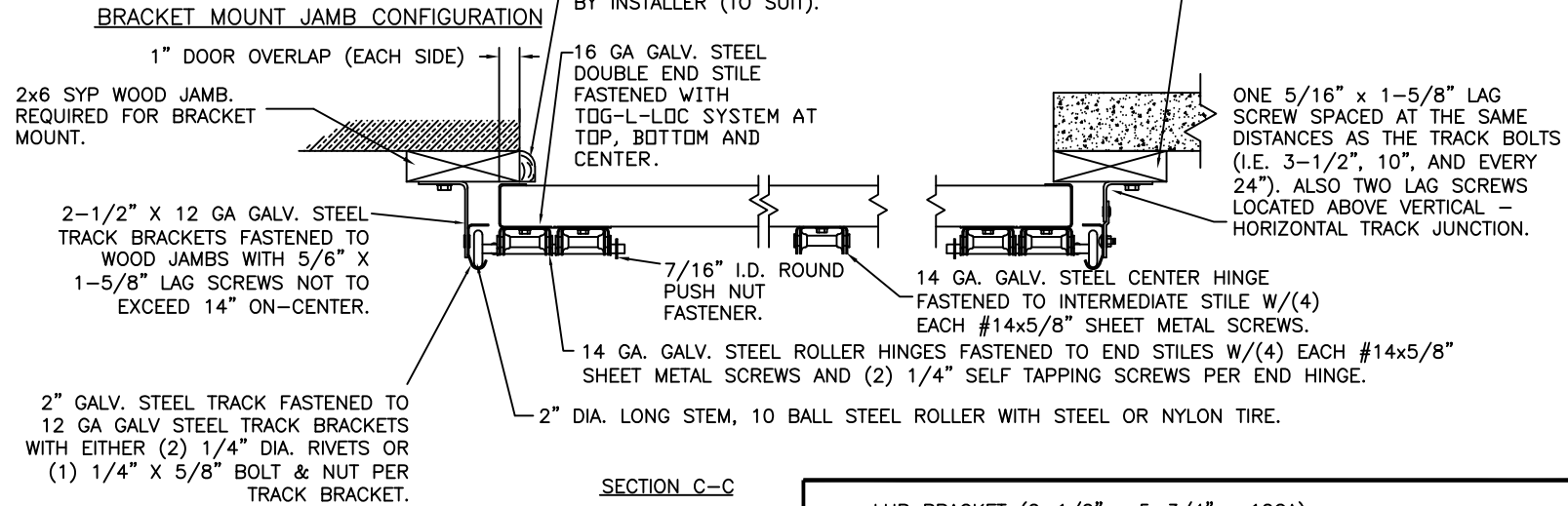
2" TRACK CONFIGURATION.

NOTE DOUBLE TRACK HEADROOM, HI-LIFT TRACK, FOLLOW-THE-ROOF TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE OPTIONS. TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.



DOOR HEIGHT	"L"
6'-6"	70"
7'-0"	76"
7'-6"	82"
8'-0"	88"
8'-6"	94"
9'-0"	100"
9'-6"	106"
10'-0"	112"
10'-6"	118"
11'-0"	124"
11'-6"	130"
12'-0"	136"
12'-6"	142"
13'-0"	148"
13'-6"	154"
14'-0"	160"
14'-6"	166"
15'-0"	172"
15'-6"	178"
16'-0"	184"
16'-6"	190"
17'-0"	196"
17'-6"	202"
18'-0"	208"

JAMB CONFIGURATION FOR 2" TRACK.



SECTION C-C

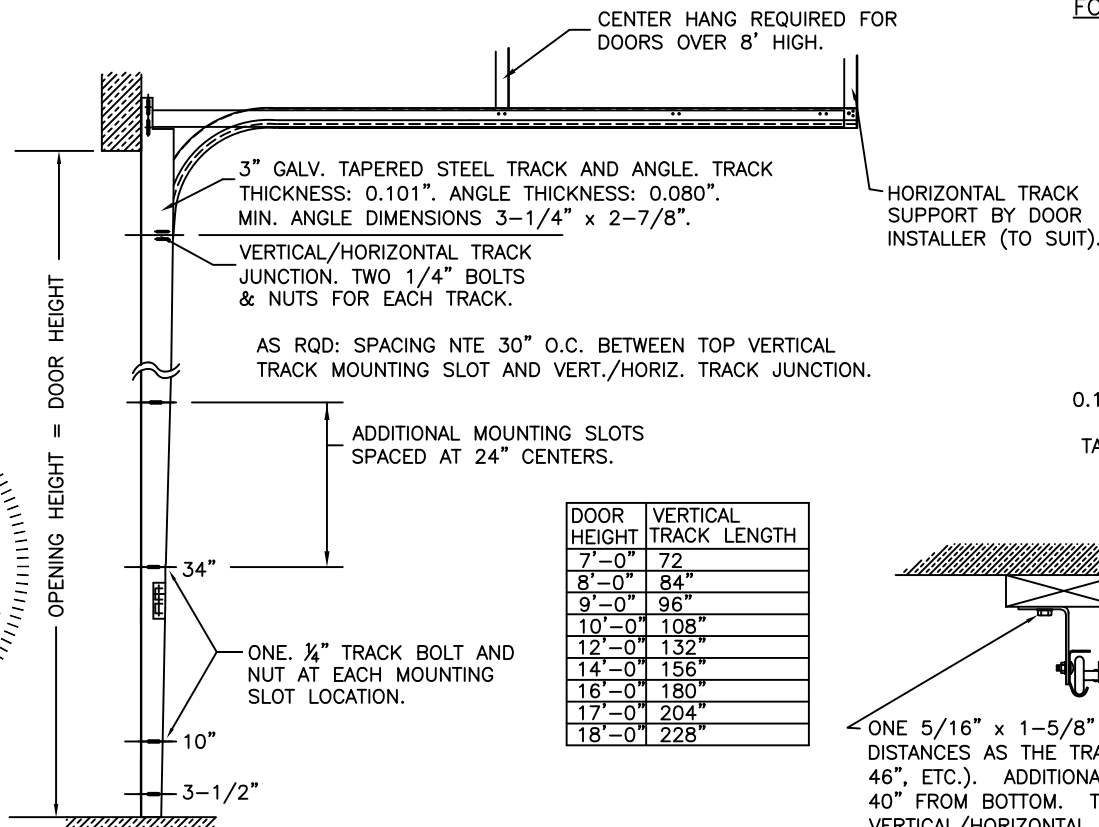
PREPARATION OF JAMBS BY OTHERS.

LHR BRACKET (2-1/2" x 5-3/4" x 12GA) ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS. NOTE THAT LHR BRACKETS ARE ALSO USED WITH "DOUBLE END STILE" AS SHOWN IN ZONE B-3 SHEET 1.

DOUBLE TRACK LOW HEADROOM OPTION (AVAIL. FOR BOTH 2" AND 3" TRACK)

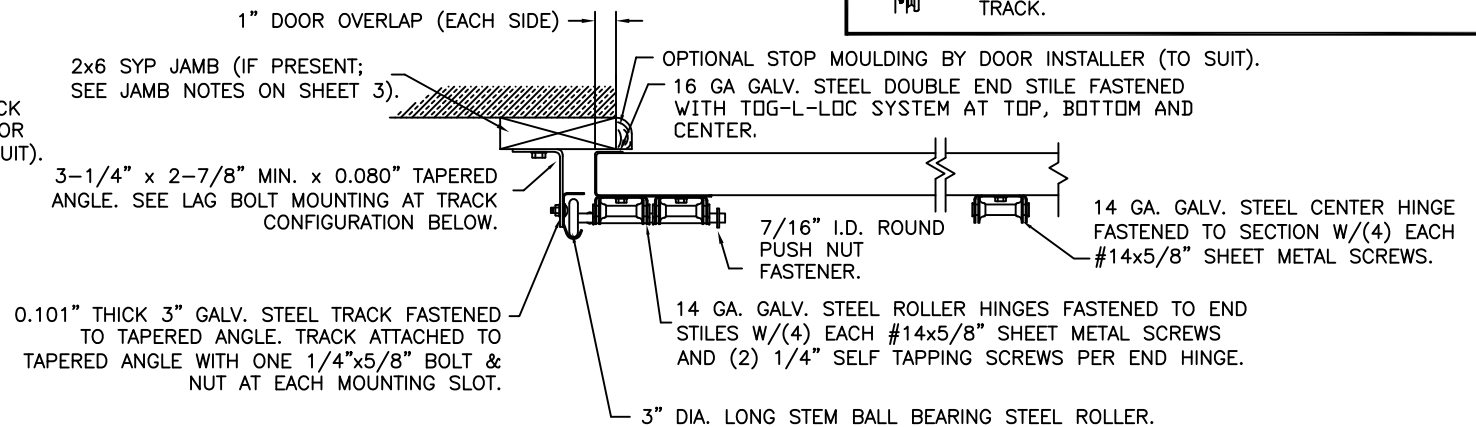
3" TRACK CONFIGURATION.

NOTE DOUBLE TRACK HEADROOM, HI-LIFT TRACK, FOLLOW-THE-ROOF TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE OPTIONS. TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.



DOOR HEIGHT	VERTICAL TRACK LENGTH
7'-0"	72"
8'-0"	84"
9'-0"	96"
10'-0"	108"
12'-0"	132"
14'-0"	156"
16'-0"	180"
17'-0"	204"
18'-0"	228"

JAMB CONFIGURATION FOR 3" TRACK.



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

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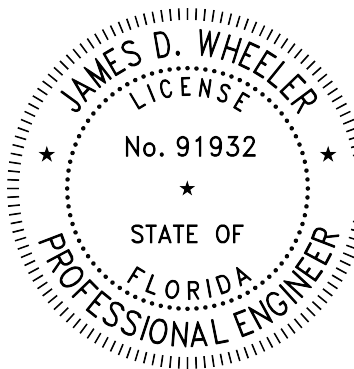
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