NOTES:

1. NON–IMPACT RESISTANT GLAZING OPTION – .090" MINIMUM SSB GLAZING IN MOLDED FRAMES INSTALLED IN TOP OR INTERMEDIATE SECTION (WITH OR WITHOUT DECORATIVE INSERTS) MEETS UNIFORM STATIC WIND PRESSURES SHOWN ON THIS DRAWING. GLAZING IS NOT IMPACT RESISTANT AND DOES NOT MEET THE REQUIREMENTS FOR WIND–BORNE DEBRIS REGIONS. SEE PAGE 2 FOR DETAIL.

2. IMPACT RESISTANT GLAZING OPTION – 1/4" POLYCARBONATE IN ALUMINUM FRAMES INSTALLED IN TOP OR INTERMEDIATE SECTION (WITH OR WITHOUT DECORATIVE INSERTS) MEETS UNIFORM STATIC WIND PRESSURES SHOWN ON THIS DRAWING. GLAZING IS IMPACT RESISTANT AND DOES MEET THE REQUIREMENTS FOR WIND–BORNE DEBRIS REGIONS. SEE PAGE 2 FOR DETAIL.

3. VINYL OR WOOD DOOR STOP NAILED USING 6D NAILS AT A MAXIMUM OF 6" O.C. MUST OVERLAP TOP AND BOTH ENDS OF PANELS MINIMUM 7/16" TO MEET NEGATIVE PRESSURES.

4. SLIDE LOCK OR LOCK BAR LOCK REQUIRED.

5. LOUVER OPTION – .040" MINIMUM LOUVERS IN MOLDED FRAMES SCREWED TOGETHER WITH A MINIMUM OF (10) #8x1" SCREWS (3X ALONG THE HORIZONTAL AND 2X ALONG THE VERTICAL) INSTALLED IN THE BOTTOM SECTION. MAXIMUM LOUVER DIMENSIONS SHALL BE 15" x 19" CUTOUT. LOUVERS ARE NOT IMPACT RESISTANT AND DO NOT MEET THE REQUIREMENTS FOR WIND–BORNE DEBRIS REGIONS.

6. FACER STEEL TO HAVE A MINIMUM 29 GA THICKNESS AND BACKER STEEL TO HAVE A MINIMUM 29 GA THICKNESS.

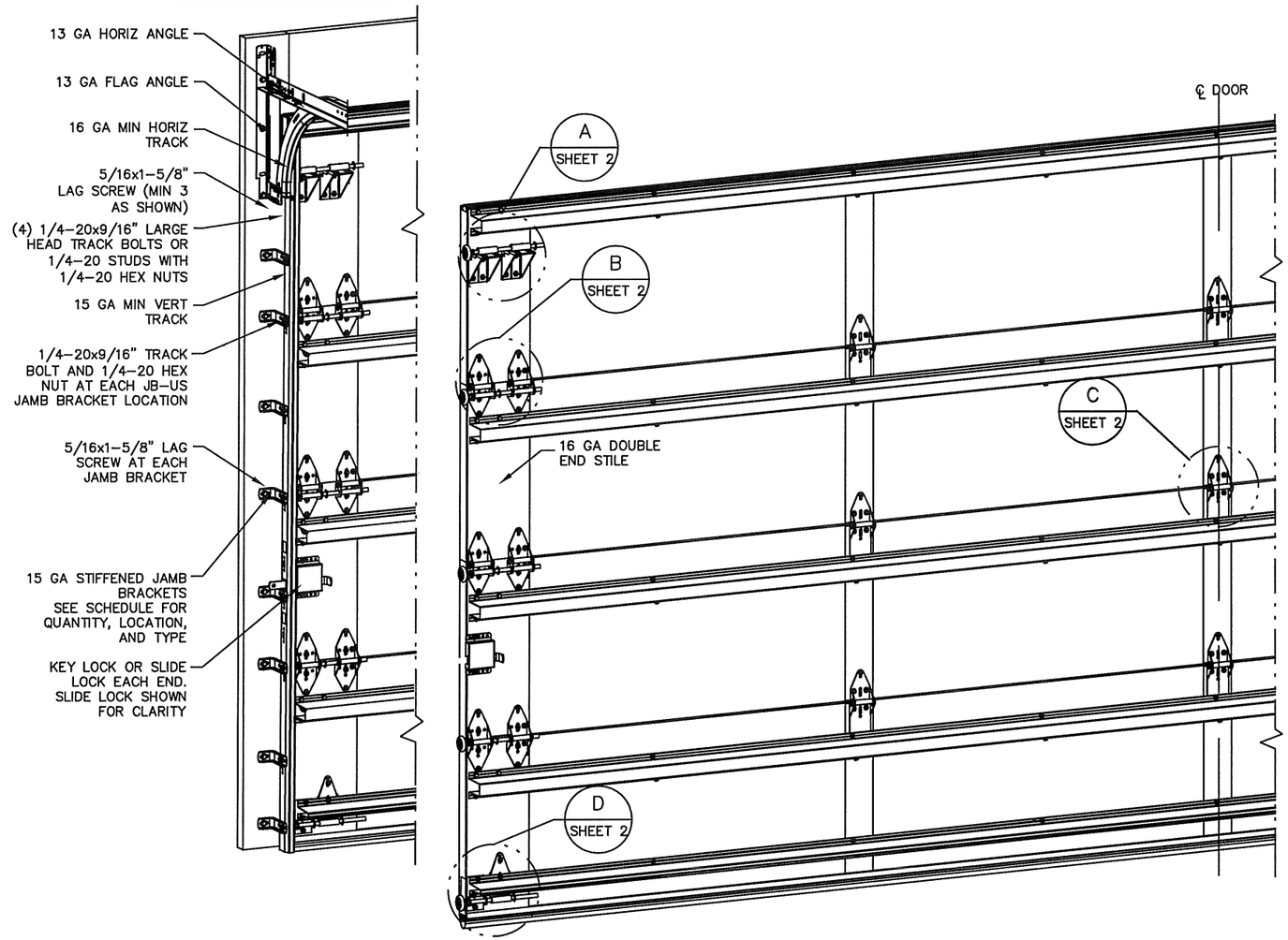
7. THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

8. DOOR JAMB TO BE MINIMUM 2x4 STRUCTURAL GRADE LUMBER. REFER TO JAMB CONNECTION SUPPLEMENT FOR ATTACHMENT TO SUPPORTING STRUCTURE.

9. FOR LOW HEAD ROOM LIFT CONDITIONS, TOP BRACKET SHALL BE A 13 GA LHR 7/4 TOP BRACKET WITHOUT PUSHNUTS AND WITH A MINIMUM OF (3) 1/4–14x7/8" SELF DRILLING CRIMPTITE SCREWS IN LIEU OF THE BRACKET SHOWN ON THIS DRAWING. U–BAR ON TOP SECTION SHALL BE INSTALLED ON TOP OF LHR TOP BRACKETS.

10. THE DOORS ARE DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2018 IRC AND THE 2018 IBC.

11. PROFESSIONAL ENGINEER SEAL PROVIDED FOR VERIFICATION OF WIND LOAD CONSTRUCTION DETAIL.



JAMB BRACKET SCHEDULE

DOOR HEIGHT	NO. OF SECTIONS	NO. OF JAMB BRACKETS (EACH JAMB)	LOCATION OF CENTERLINE OF JAMB BRACKETS MEASURED FROM BOTTOM OF TRACK (ALL DIMENSIONS ± 2")
6'–6"	4	7	2" (JB–US), 10" (JB–US), 21–3/4" (JB–US), 29–3/4" (JB–US), 39" (JB–US), 48" (JB–US), 57–1/4" (JB–US)
7'–0"	4	7	2" (JB–US), 10" (JB–US), 21–3/4" (JB–US), 29–3/4" (JB–US), 42" (JB–US), 52–1/2" (JB–US), 63–1/4" (JB–US)
7'–6"	4 OR 5	8	2" (JB–US), 10" (JB–US), 18–3/4" (JB–US), 26–3/4" (JB–US), 36" (JB–US), 45" (JB–US), 54–1/4" (JB–US), 74–1/2" (JB–US)
8'–0"	4 OR 5	8	2" (JB–US), 10" (JB–US), 21–3/4" (JB–US), 29–3/4" (JB–US), 39" (JB–US), 48" (JB–US), 57–1/2" (JB–US), 75–1/2" (JB–US)
> 8'–0"			SEE NOTE BELOW

NOTE:
(JB–US) FOLLOWING DIMENSION DENOTES SLOTTED JAMB BRACKET ATTACHED TO TRACK WITH 1/4–20x9/16" TRACK BOLT AND NUT AS SHOWN ABOVE.

ALL DOORS GREATER THAN 8' IN HEIGHT REQUIRE USE OF CONTINUOUS WALL ANGLE. SEE SUPPLEMENT TRACK CHART FOR DETAILS.

SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE

DOOR WIDTH	DOOR HEIGHT	UNIFORM LOAD EACH JAMB (PLF)
17'–2"	ALL	+279.8/–316.7
18'–2"	ALL	+296.1/–335.2

DWAYNE J. KORNISH LICENSE No. 77945 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/11/2024

DWAYNE J. KORNISH, PE
4576 COUNTY ROAD 160
MOUNT HOPE, OHIO
FL PE 77945
TX PE 117868

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REVISIONS

– NEW MODELS PER WL014
SW 10/20/2024

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STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A
DESIGN (PSF):	+32.60/–36.90	MAX WIDTH:	18'–2"		DATE	NAME
TEST (PSF):	+48.90/–55.35	MAX HEIGHT:	24'–0"	DRAWN	10/20/24	SW
IMPACT/CYCLIC RATED (YES/NO):	YES	MAX SECTION HEIGHT:	24"	CHECKED	–	TLC

MODELS 160/190/490/593/594/591/592/596/599/5740/5760/7560

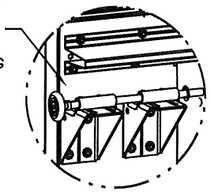
SHEET 1 OF 3

WINDLOAD SPECIFICATION OPTION CODE 2256

DRAWING PART NO. 412869

REV. –

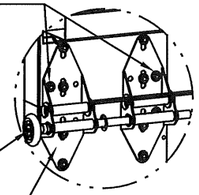
(2) 12 GA COMMERCIAL TOP FRAME BRACKETS WITH 13 GA ROLLER CARRIERS EACH ATTACHED WITH (4) 1/4–20x3/4" SELF DRILLING SCREWS



DETAIL A

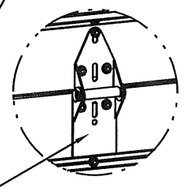
ADD (2) 1/4–14x7/8" SELF DRILLING CRIMPTITE SCREWS (INSIDE OF EACH INSIDE END HINGE)

2" STEEL ROLLER WITH 9" GRADE 1144 OR EQUIVALENT STEM AND 7/16" PUSH NUT AT EACH ROLLER LOCATION LOCATED BETWEEN THE BRACKET OR HINGE (EXCEPT PUCHNUT LOCATED ON THE TOP AND BOTTOM ROLLER IS LOACTED OUTSIDE OF BOTH BRACKETS). 1/4" MAX BETWEEN PUSH NUT AND OUTER HINGE. OPTIONAL NYLON, 10/11–BALL BEARING ROLLER AVAILABLE



DETAIL B

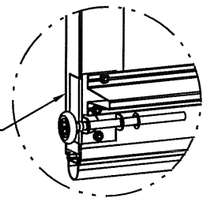
WIDE BODY END HINGE EACH ATTACHED WITH (4) 1/4–14x7/8" SELF DRILLING CRIMPTITE SCREWS
#1 IS 14 GA
#2 AND HIGHER IS 13 GA



DETAIL C

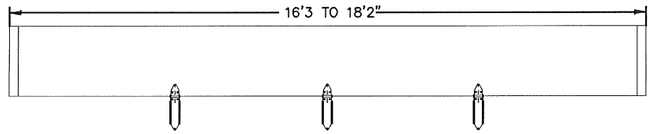
14 GA WIDE BODY EXTENDED HINGE ATTACHED WITH (7) 1/4–20x3/4" SELF DRILLING SCREWS. (2 THROUGH STRUT AND HINGE)

14 GA BOTTOM BRACKET ATTACHED WITH (3) 1/4–14x7/8" SELF DRILLING CRIMPTITE SCREWS

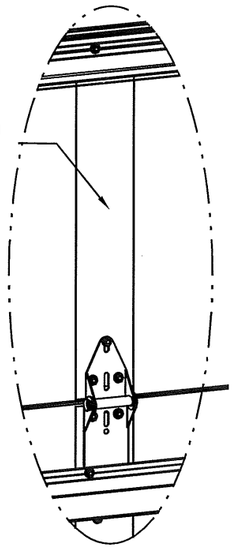


DETAIL D

HINGE LOCATIONS



2" 20GA STEEL STRIP WITH VHB TAPE ADHERED TO EACH SECTION, LINED UP WITH CENTER HINGES



(10) SECTION DOORS WITH (1) 3" 18 GA 80 KSI U–BARS (10) 4" 18 GA 80 KSI U–BARS LOCATED AS SHOWN

(9) SECTION DOORS WITH (1) 3" 18 GA 80 KSI U–BARS (9) 4" 18 GA 80 KSI U–BARS LOCATED AS SHOWN

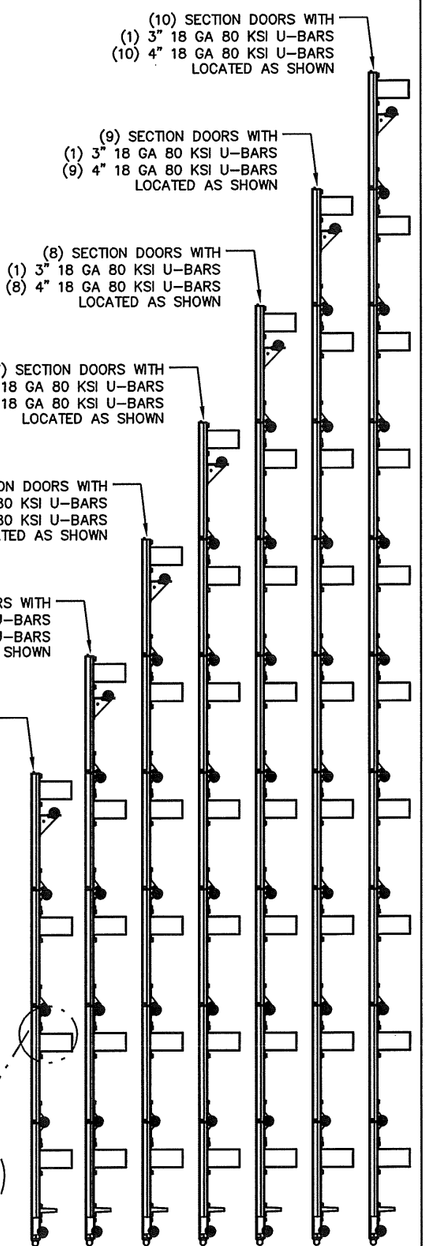
(8) SECTION DOORS WITH (1) 3" 18 GA 80 KSI U–BARS (8) 4" 18 GA 80 KSI U–BARS LOCATED AS SHOWN

(7) SECTION DOORS WITH (1) 3" 18 GA 80 KSI U–BARS (7) 4" 18 GA 80 KSI U–BARS LOCATED AS SHOWN

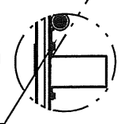
(6) SECTION DOORS WITH (1) 3" 18 GA 80 KSI U–BARS (6) 4" 18 GA 80 KSI U–BARS LOCATED AS SHOWN

(5) SECTION DOORS WITH (1) 3" 18 GA 80 KSI U–BARS (5) 4" 18 GA 80 KSI U–BARS LOCATED AS SHOWN

(4) SECTION DOORS WITH (1) 3" 18 GA 80 KSI U–BARS (4) 4" 18 GA 80 KSI U–BARS LOCATED AS SHOWN



ALL U–BARS SHALL BE ATTACHED WITH (2) 1/4–14x7/8" SELF DRILLING CRIMPTITE SCREWS AT EACH HINGE LOCATION AND BETWEEN ALL END HINGES AND INTERMEDIATE HINGES. A MINIMUM OF (14) FASTENERS ARE TO BE USED.



DWAYNE J KORNISH
LICENSE
No. 77945
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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4576 COUNTY ROAD 160
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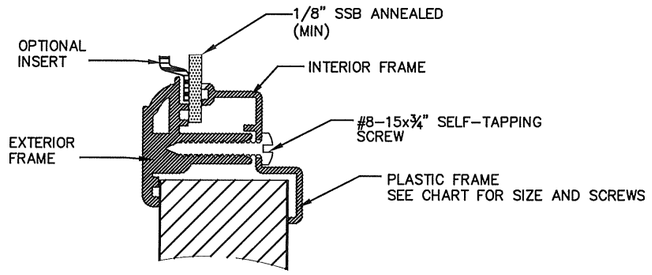
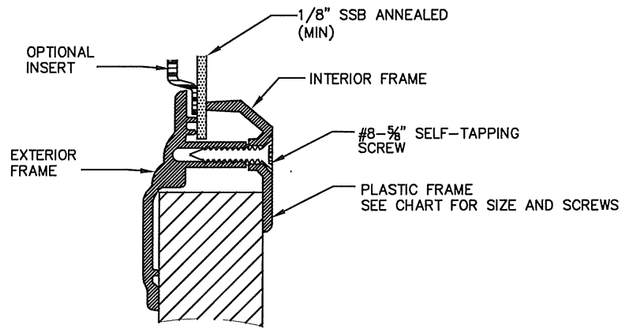
DESIGN (PSF): +32.60/–36.90	MAX WIDTH: 18'–2"		DATE	NAME
TEST (PSF): +48.90/–55.35	MAX HEIGHT: 24'–0"	DRAWN	10/20/24	SW
IMPACT/CYCLIC RATED (YES/NO): YES	MAX SECTION HEIGHT: 24"	CHECKED	–	TLC
MODELS 160/190/490/593/594/591/592/596/599/5740/5760/7560		SHEET 2 OF 3		
WINDLOAD SPECIFICATION OPTION CODE 2256		DRAWING PART NO. 412869		REV. –

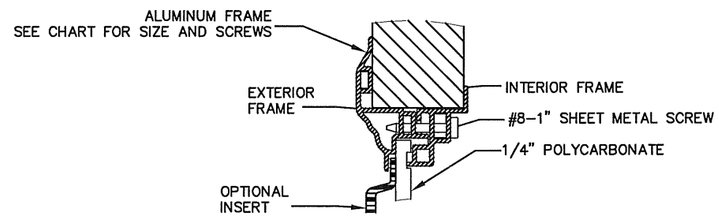


DETAIL H
NON-IMPACT GLAZING

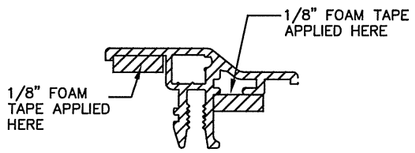


DETAIL I
NON-IMPACT GLAZING

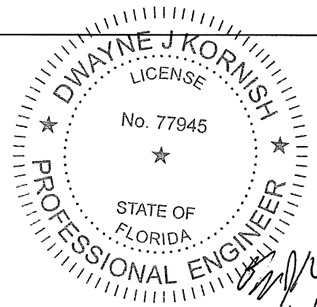
OUTSIDE FRAME SIZE	DAYLIGHT OPENING (DLO)	SCREW QTY EA HORIZ LEG	SCREW QTY EA VERT LEGS	SCREW QTY TOTAL	DETAIL
17"X51"	14X48	5	3	16	H
15.1X44"	11.5"X40.5"	8	3	22	I
14.9X20.8"	11"X17"	3	3	12	I
7"X40.8	4"X37.8"	5	2	14	I
15.3"X44.1"	11.3"X40.1"	6	3	18	J
14.6"X20.8"	10.6"X16.8"	3	2	10	J
13"X38"	9"X34"	5	2	14	J



DETAIL J
IMPACT GLAZING



ALUMINUM FRAME
(STATIC RATED ALTERNATE FRAME OPTION)



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MODELS 160/190/490/593/594/591/592/596/599/5740/5760/7560

SHEET 3 OF 3

WINDLOAD SPECIFICATION OPTION CODE 2256

DRAWING PART NO. 412869

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