▷ NOTES

NOTES:
1. IMPACT RESISTANT GLAZING OPTION– IMPACT RESISTANT GLAZING SYSTEM MAY BE INSTALLED IN TOP OR INTERMEDIATE SECTION (WITH OR WITHOUT DECORATIVE INSERTS). GLAZING SHALL BE 1/4" POLYCARBONATE. MAXIMUM GLAZING DIMENSIONS SHALL BE 12.41" x 18.53" CUTOUT, FASTENED WITH #8 X 1" SMS: 3X ALONG THE HORIZONTAL AND 2X ALONG THE VERTICAL. SEE DETAIL J ON SHEET 2 FOR ASSEMBLY DETAILS.

2. NON–IMPACT REISTANT GLAZING OPTION – .090" MINIMUM SSB GLAZING IN MOLDED FRAMES SCREWED TOGETHER WITH A MINIMUM OF (10) #8x1" SCREWS INSTALLED IN TOP OR INTERMEDIATE SECTION (WITH OR WITHOUT DECORATIVE INSERTS) MEETS UNIFORM STATIC WIND PRESSURES SHOWN ON THIS DRAWING. GLAZING SHALL HAVE A MAXIMUM HEIGHT OF 10.69" AND A MAXIMUM LENGTH OF 18.94". GLAZING IS NOT IMPACT RESISTANT AND DOES NOT MEET THE REQUIREMENTS FOR WIND–BORNE DEBRIS REGIONS.

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

4. KEY LOCK OR SLIDE LOCKS REQUIRED.

5. LOUVER OPTION – .040" MINIMUM LOUVERS IN MOLDED FRAMES SCREWED TOGETHER WITH A MINIMUM OF (10) #8x1" SCREWS INSTALLED IN THE BOTTOM SECTION. LOUVERS ARE NOT IMPACT RESISTANT AND DO NOT MEET THE REQUIREMENTS FOR WIND–BORNE DEBRIS REGIONS.

6. SECTION STEEL TO HAVE A MINIMUM 26 GA THICKNESS.

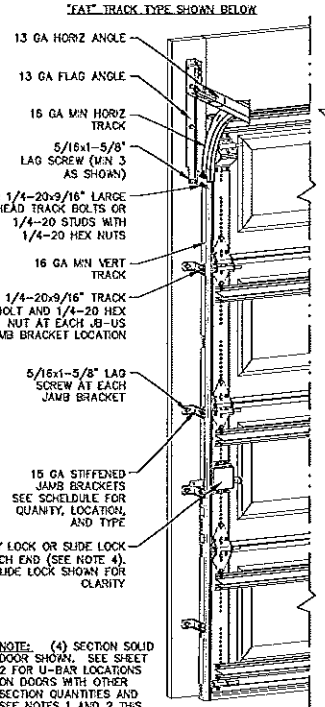
7. THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

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

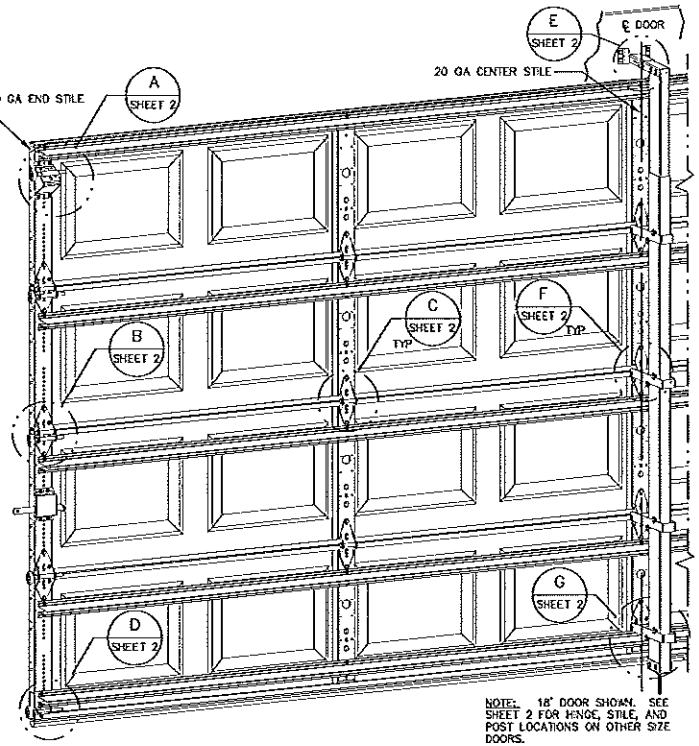
9. FOR LOW HEAD ROOM LIFT CONDITIONS, TOP BRACKET SHALL BE A 13 GA LHR 7/4 TOP BRACKET WITH A MINIMUM OF (3) 1/4–14x7/8" SELF DRILLING CRIMPTITE SCREWS IN LIEU OF THE BRACKET SHOWN ON THIS DRAWING. U–BAR ON TOP SECTION SHALL BE INSTALLED ON TOP OF LHR TOP BRACKETS.

10. IN LIEU OF THE SHORT PANEL EMBOSSMENT SHOWN, LONG PANEL EMBOSSMENT, V12 PANEL EMBOSSMENT, OR NO EMBOSSMENT MAY BE USED

"FAT" TRACK TYPE SHOWN BELOW



NOTE: (4) SECTION SOLID DOOR SHOWN. SEE SHEET 2 FOR U–BAR LOCATIONS ON DOORS WITH OTHER SECTION QUANTITIES AND SEE NOTES 1 AND 2 THIS SHEET FOR GLAZING OPTIONS.



NOTE: 18' DOOR SHOWN. SEE SHEET 2 FOR HINGE, STILE, AND POST LOCATIONS ON OTHER SIZE DOORS.

REVISIONS

ER	REV	DESCRIPTION	DATE	APPROVAL
500851	–	RELEASE PER ER	11/23/10	SPT
30547	A	REV PER ER	4/16/12	GST
30704	B	REV PER ER	11/13/12	GST

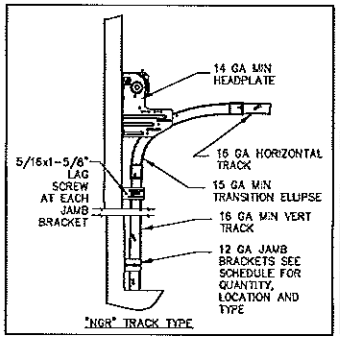
STATE OF TEXAS
MARK A SAWICKI
106291
LICENSED
PROFESSIONAL ENGINEER
4/5/13

STATIC PRESSURE RATINGS	APPROVED SIZES
DESIGN PRESSURE(PSF): 34.4/–38.3	MAX WIDTH: 18'
	MAX HEIGHT: 8'
IMPACT/CYCLIC RATED: NO	MAX SECTION HEIGHT: 21"

JAMB BRACKET SCHEDULE

DOOR HEIGHT	NO. OF SECTIONS	NO. OF JAMB BRACKETS (EACH JAMB)	TRACK TYPE	LOCATION OF CENTERLINE OF JAMB BRACKETS MEASURED FROM BOTTOM OF TRACK (ALL DIMENSIONS ± 2")
6'–6"	4	4	FAT	10" (JB–US), 25–3/4" (JB–US), 39" (JB–US), 57–1/4" (JB–US)
			NGR	5" (STD), 22–1/2" (STD), 35–3/4" (STD), 67" (STD)
7'–0"	4	4	FAT	10" (JB–US), 29–3/4" (JB–US), 42" (JB–US), 63–1/4" (JB–US)
			NGR	5" (STD), 22–1/2" (STD), 35–3/4" (STD), 67" (STD)
7'–6"	5	5	FAT	10" (JB–US), 26–3/4" (JB–US), 45" (JB–US), 63" (JB–US), 74–1/2" (JB–US)
			NGR	5" (STD), 22–1/2" (STD), 35–3/4" (STD), 67" (STD), 80" (STD)
8'–0"	5	5	FAT	10" (JB–US), 29–3/4" (JB–US), 48" (JB–US), 57–1/2" (JB–US), 77–1/2" (JB–US)
			NGR	5" (STD), 22–1/2" (STD), 35–3/4" (STD), 67" (STD), 80" (STD)
> 8'–0"				SEE NOTE BELOW

NOTE:
(FAT AND NGR) FOLLOWING DIMENSION DENOTES SLOTTED JAMB BRACKET ATTACHED TO TRACK WITH 1/4–20x9/16" TRACK BOLT AND NUT.



"NGR" TRACK TYPE

SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE

MAX DOOR WIDTH	MAX DOOR HEIGHT	UNIFORM LOAD EACH JAMB (PLF)	POINT LOAD AT HEADER AND SLAB AT EACH POST LOCATION (LBS)
15'–0"	7'–0"	+147.7/–164.4	+933.6/–1039.4
	8'–0"	+147.7/–164.4	+1060.9/–1181.2
16'–0"	7'–0"	+135.0/–150.3	+1028.4/–1145.0
	8'–0"	+135.0/–150.3	+1168.6/–1301.1
17'–0"	7'–0"	+138.7/–154.4	+1127.3/–1255.1
	8'–0"	+138.7/–154.4	+1281.0/–1426.2
18'–0"	7'–0"	+142.7/–158.8	+1224.2/–1363.0
	8'–0"	+142.7/–158.8	+1391.1/–1548.8

SERIES 170–177, 180–187

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REF DWG	USED ON

TYPE BASE PROJECTION

ARMS VISIBLE AND TILTS ABOUT UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN USE EXCLUSIVELY INCH

TOLERANCES UNLESS OTHERWISE SPECIFIED

HOLE DIAMETER	WHOLE NUMBERS: ± .25
UNDER .251 +.004/–.003	.X ± .1
.251 TO .500 +.006/–.003	.XX ± .03
OVER .500 +.008/–.003	.XXX ± .010
FRACTIONS ± 1/16	ANGLES: ± .5°

FINISH N/A

UNIT OF MEASURE EACH

MATERIAL NONE

NAME	DATE
DRAWN BY G. TAYLOR	10/15/10
CHECKED BY M. SAWICKI	10/25/10
APPROVED BY F. TJONG	11/23/10

DRAWING TITLE SERIES 170, 180WL WS7, 18' MAX WIDE, POST

DRAWING NUMBER D–411053

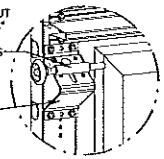
SCALE N.T.S. SHEET 1 OF 2

REVISIONS				
ER	REV	DESCRIPTION	DATE	APPROVAL
506851	—	RELEASE PER ER	11/23/10	SFT
32547	A	REV PER ER	4/16/12	GVT
30704	B	REV PER ER	11/13/12	GVT

▷ NOTES

13 GA ROLLER SLIDE ATTACHED TO BRACKET WITH 5/16-18 BOLT & NUT IN CENTER SLOT AND 1/4-20x9/16" TRACK BOLT & 1/4-20 HEX NUT THROUGH ANY TWO ALIGNING HOLES

13 GA COMMERCIAL 'A' FRAME TOP BRACKET ATTACHED WITH (4) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS

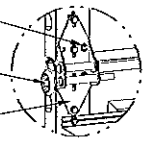


DETAIL A

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

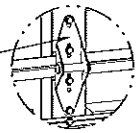
2" NYLON STORMGARD ROLLER WITH 4-1/2" STEM

14 GA WIDE BODY END HINGE ATTACHED WITH (4) 1/4-14x5/8" SELF TAPPING SCREWS



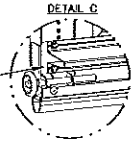
DETAIL B

18 GA NARROW BODY INTERMEDIATE HINGE ATTACHED WITH (4) 1/4-14x5/8" SELF TAPPING SCREWS

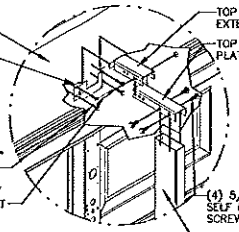


DETAIL C

14 GA BOTTOM BRACKET ATTACHED WITH (2) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS THROUGH STRUT AND BOTTOM BRACKET AND (1) 1/4-14x5/8" SELF DRILLING TAMPER RESISTANT SCREW

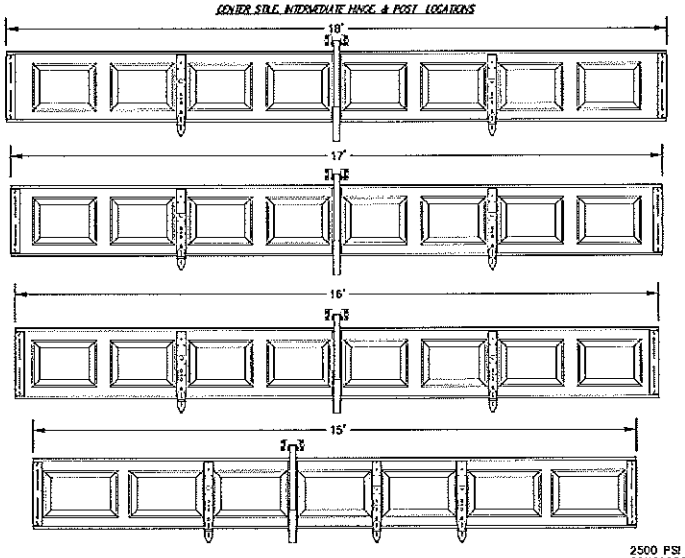


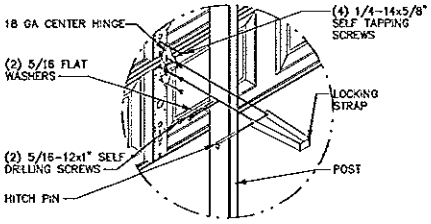
DETAIL D



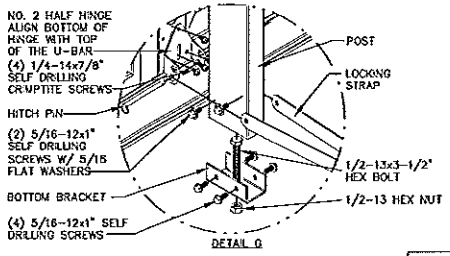
DETAIL E

CENTER STILE, INTERMEDIATE HINGE, & POST LOCATIONS



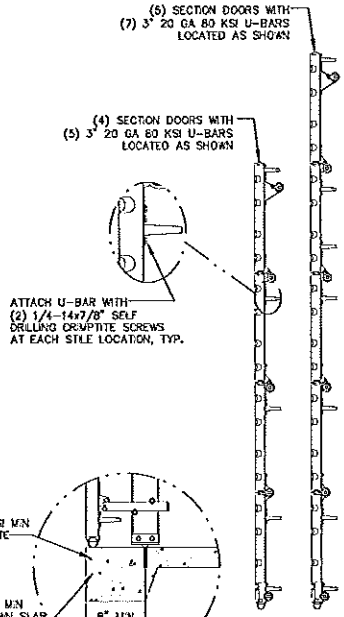


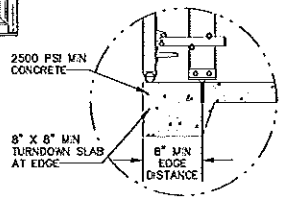
DETAIL F



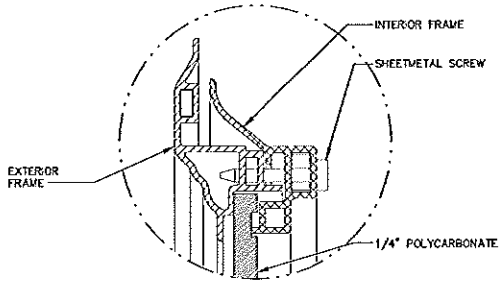
DETAIL G

U-BAR LOCATIONS





DETAIL H



DETAIL J

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106291
LICENSED
PROFESSIONAL ENGINEER
4/5/13

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REF DWG	USED ON

THIRD ANGLE PROJECTION

ASME Y14.100 AND Y14.5 APPLY UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN U.S. CUSTOMARY UNITS

TOLERANCES UNLESS OTHERWISE SPECIFIED

HOLE DIAMETER	WHOLE NUMBERS:	± .25
UNDER .251 +.004/-.003	.X	± .1
.251 TO .500 +.006/-.003	.XX	± .03
OVER .500 +.008/-.003	.XXX	± .010
FRACTIONS	ANGLES:	± .5°
± 1/16		

FINISH: N/A

UNIT OF MEASURE: EACH

MATERIAL: NONE

	NAME	DATE
DRAWN BY:	G. TAYLOR	10/15/10
CHECKED BY:	M. SAWICKI	10/25/10
APPROVED BY:	F. TUONG	11/23/10

DRAWING TITLE: SERIES 170, 180WL WS7, 18' MAX WIDE, POST

DRAWING NUMBER: D-411053

SCALE: N.T.S. SHEET 2 OF 2