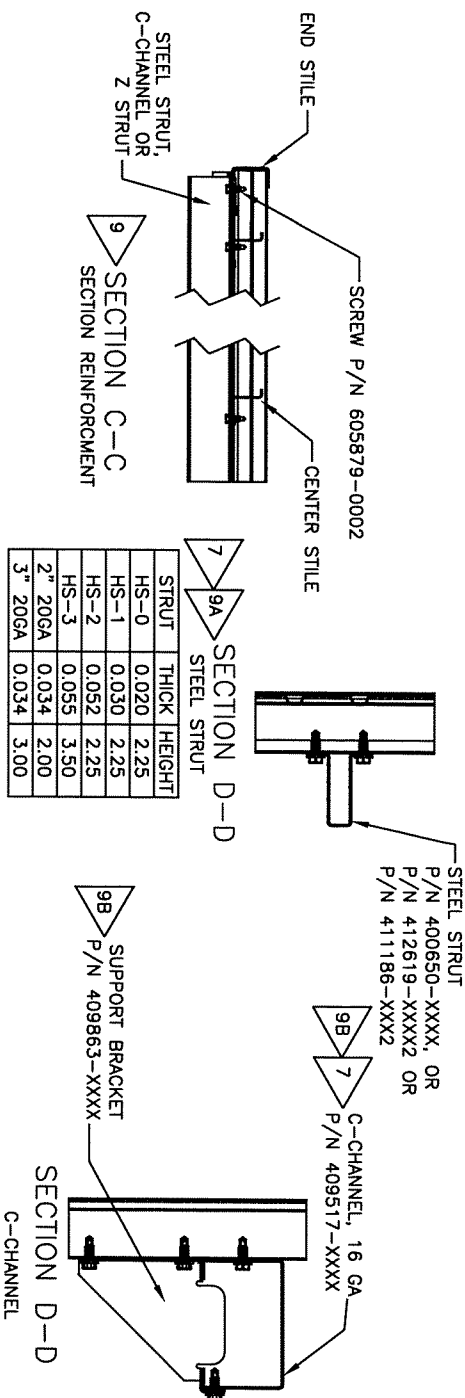
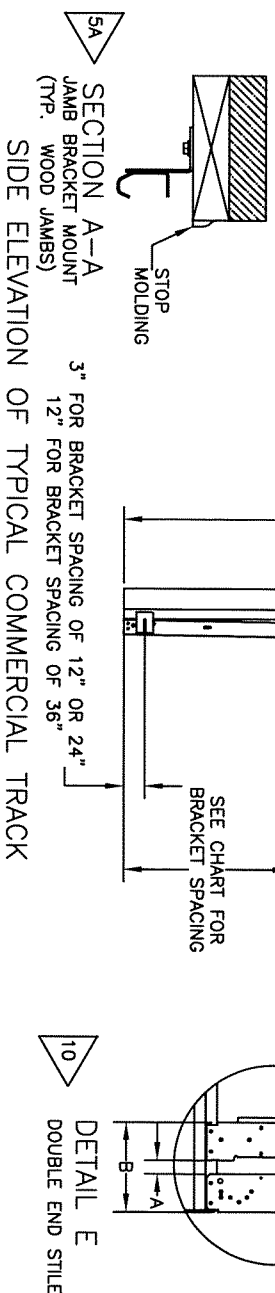
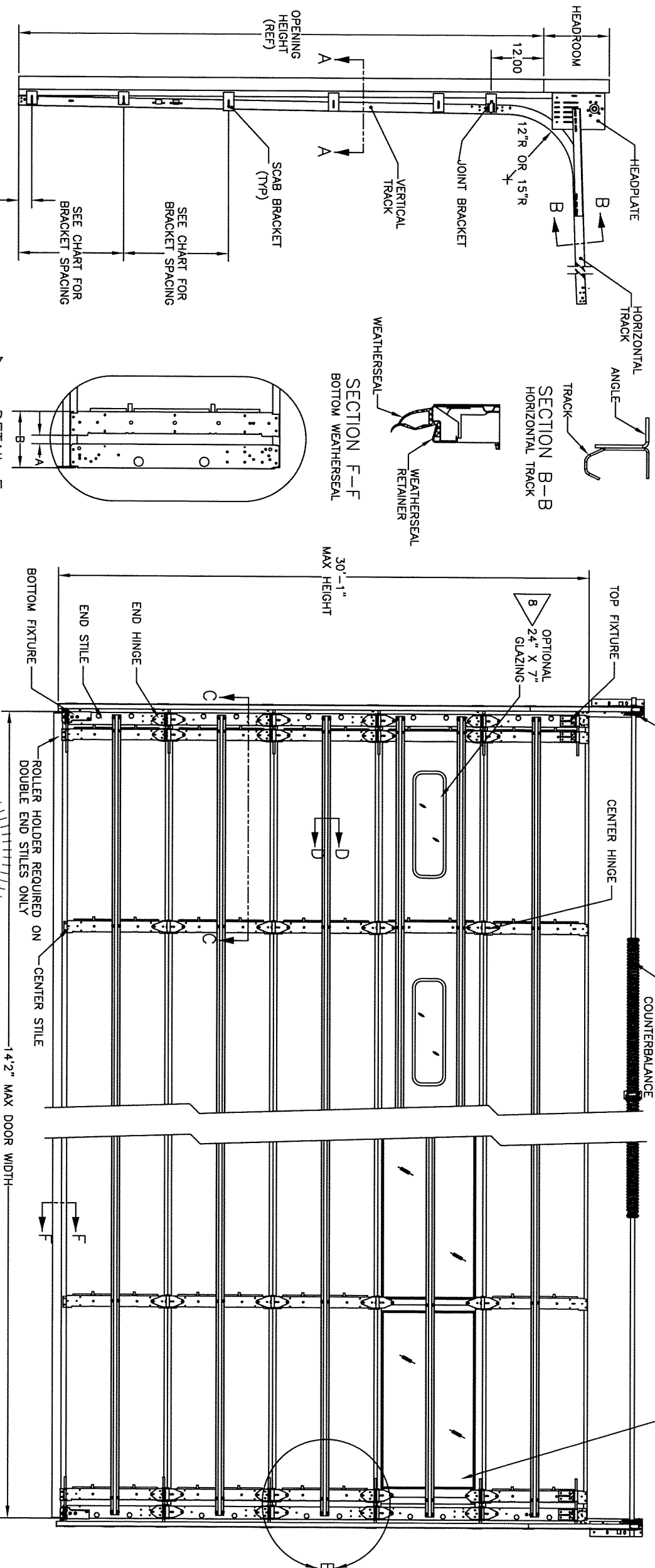


REVISIONS				
EN	REV	DESCRIPTION	DATE	APPROVAL
501337	E	REVISED PER ER	10/12/11	SFT
32499	F	ADDED SECOND PAGE	10/12/20	TLC
32933	G	ADDED 2 & 3 20GA STRUTS	05/05/25	M.DAUS

- | REVISIONS | | | | |
|-----------|-----|----------------------------|----------|-------|
| NO. | REV | DESCRIPTION | DATE | APP'D |
| 501337 | E | REVISED PER SR | 10/12/11 | S |
| 327498 | F | ADDED SECOND PAGE | 10/12/20 | T |
| 329353 | G | ADDED 2-4 1/2" 20GA STRUTS | 09/05/25 | M |

NOTES	DESIGNED AND TESTED IN ACCORDANCE WITH WIND LOAD PROVISIONS OF THE FLORIDA BUILDING CODE AND INTERNATIONAL BUILDING CODE. PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WIND LOAD CONSTRUCTION DETAILS.
1.	A. JAMB BRACKETS (TYP WOOD JAMBS) STYLE TRACK-- 5/16" x 1 3/4" LAG BOLT, OR EQUIVALENT. B. ALTERNATE ANGLE MOUNT--SEE SHEET 2
2.	PRESSURES LISTED AS POSITIVE/NEGATIVE (DESIGN).
3.	SECTION HEIGHTS MAY VARY TO CREATE VARIOUS DOOR HEIGHTS, 24" MAXIMUM SECTION HEIGHT.
4.	LIFT CLEARANCE OR FULL VERTICAL TRACK MAY ALSO BE USED.
5.	LOW HEADROOM TRACK MAY BE USED WITH EITHER DRAWBAR OPERATOR OR LOCK.
6.	FASTENING METHODS (TRUCK TO WALL), SPACING BASED ON BRACKET SPACING (SEE CHART BELOW):
7.	STRUTS TO BE ATTACHED ± 3" FROM CENTER LINE OF SECTION.
8.	MULTIPLE ALUMINUM FULL VIEW OR GLAZED SECTIONS MAY REPLACE ANY SECTION EXCEPT TOP AND BOTTOM SECTIONS.
9.	STRUT OR Z STRUT INSTALLATION: A. FOR STRUTS ONLY-- USE ONE SCREW (P/N 605879--0002) ON BOTH SIDES OF STRUT AT EACH END STILE AND CENTER STILE. B. FOR Z STRUT (P/N 407756--XXXX) OR 6" C-CHANNEL (410819--XXXXXX). C(410819).
10.	REFERENCE WINDOWL SPECIFICATION CHART FOR END STILE REQUIREMENTS (SEE DETAIL E). -- WHEN STANDARD SECTION WITH DOUBLE END STILE, -- A = 1.00" AND B = 6.5" -- WHEN FULL VISION WITH DOUBLE END STILE, -- A = 1.00" AND B = 6.5"
11.	THE 6" TALL 16GA. Z(407756--0001) OR (2) HS-3 MAY BE SUBSTITUTED FOR 6" 16GA C(410819).
12.	BE 3" 20GA STEEL STRUTS (411186--XXXX) MAY BE SUBSTITUTED FOR HS-2 STRUTS (400650--0002).



SERIES 416/418: 50/-50 PSF WINDLOAD										
DOOR	END	CENTER	STRUT		ROLLER		TRACK		JAMB	
WIDTH	STILE	STILE				STEM	BRACKET	VERTICAL	LOAD	
UP TO	QTY	QTY	TYPE	TYPE	DIA.	DIA.	MAX	GAGE	(LB/FT)	HARDWARE
							SPACING			
8'2"	DOUBLE	1	HS-2	TR-5	2"	7/16"	12"	0.068"	204	STANDARD
10'2"	DOUBLE	2	HS-2	TR-5	2"	7/16" 1144	12"	0.068"	254	STANDARD
12'2"	DOUBLE	3	HS-3	TR-5	2"	7/16" 1144	12"	0.068"	304	STANDARD
14'2"	DOUBLE	4	1	C (16GA)	TR-5	2"	7/16" 1144	12"	0.090"	354
										STANDARD

No. 46718

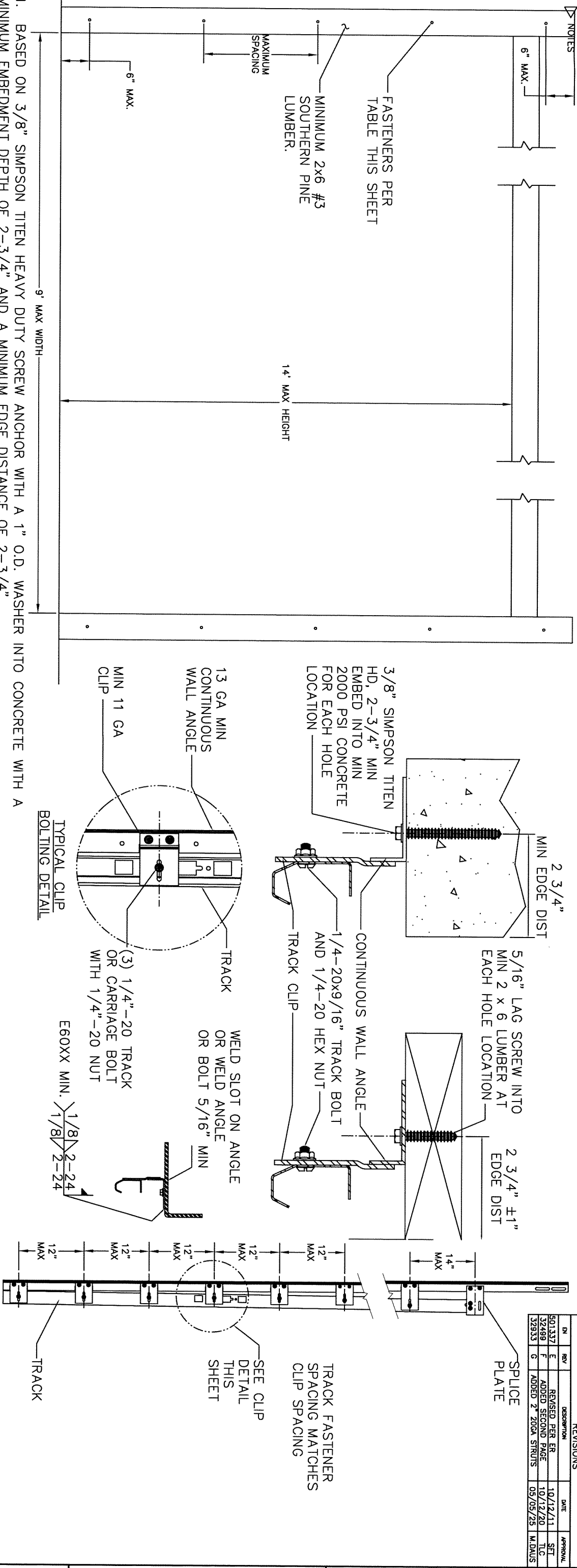
STATE OF
FLORIDA

PROFESSIONAL ENGINEER

GORDON THOMAS
FL PE 46718

THE DRAWINGS AND ALL OTHER INFORMATION CONTAINED HEREIN ARE THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF OVERHEAD DOOR CORPORATION AND ITS AFFILIATED COMPANIES. THIS DRAWING AND INFORMATION, IN WHOLE OR IN PART, MAY NOT BE COPIED IN ANY MANNER OR DISCLOSED TO ANYONE WITHOUT THE PRIOR WRITTEN CONSENT OF OVERHEAD DOOR CORPORATION. NO DISCLOSURE OF ANY OF THIS DRAWING OR INFORMATION IS INTENDED TO OPERATE AS A LICENSE OR AUTHORIZATION TO USE IT FOR ANY PURPOSE WITHOUT THE SPECIFIC WRITTEN CONSENT OF OVERHEAD DOOR CORPORATION.									
REF DWG:	USED ON:			TOLERANCES UNLESS OTHERWISE SPECIFIED WHOLE NUMBERS: ± .25 X ± .1 XX ± .03 XXX ± .010 ANGLES: ± .5° FINISH: EA				DRAWN BY: C DURAN CHECKED BY: M WOLNACK APPROVED BY: JF FAW	DATE: 08/14/03 10/22/03 10/22/03
WINDING TITLE: WINDING LOAD, 416/418, 50/-50 PSF, 14'-2" MAX DRAWING NUMBER: D-410216 SCALE: N/A SHEET 1 OF 2									

REVISIONS				
EN	REV	DESCRIPTION	DATE	APPROVAL
501337	E	REVISED PER ER	10/12/11	SFT
32499	F	ADDED SECOND PAGE	10/12/20	TLC
32933	G	ADDED 2" 20GA STRUTS	05/05/25	M.DAVIS



1. BASED ON 3/8" SIMPSON TITEN HEAVY DUTY SCREW ANCHOR WITH A 1" O.D. WASHER INTO CONCRETE WITH A MINIMUM EMBEDMENT DEPTH OF 2-3/4" AND A MINIMUM EDGE DISTANCE OF 2-3/4".
2. BASED ON 3/8" SIMPSON TITEN HEAVY DUTY SCREW ANCHOR WITH A 1" O.D. WASHER INTO GROUT FILLED CMU WITH A MINIMUM EMBEDMENT DEPTH OF 2-3/4", A MINIMUM EDGE DISTANCE OF 4", AND A MINIMUM END DISTANCE OF 4". CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND GROUT SHALL CONFORM TO ASTM C476.
3. BASED ON 3/8" DIAMETER x 3" LONG LAG SCREWS WITH 1" O.D. WASHERS WITH A 1-9/32" THREAD PENETRATION INTO SEASONED DRY WOOD SUPPORTING STRUCTURE.
4. PROVIDE QUANTITY OF SCREW ANCHORS OR LAG SCREWS AS REQUIRED TO MAINTAIN MAXIMUM SPACING AS SHOWN IN TABLE WITH A MINIMUM OF THREE (3) SCREW ANCHORS OR LAG SCREWS PER JAMB. SCREW ANCHORS OR LAG SCREWS AT TOP AND BOTTOM OF JAMB SHALL BE PLACED A MAXIMUM OF 6" FROM THE END OF THE JAMB.
5. LOAD PER JAMB CALCULATED TO BE A MAXIMUM OF +/-354.2 LBS PER FOOT.
6. CHART INCLUDES A SAFETY FACTOR OF 4.
7. DOOR JAMB TO BE MINIMUM 2x6 NO. 3 SOUTHERN PINE LUMBER (MIN) MOUNTED DIRECTLY TO SUPPORT STRUCTURE.
8. DESIGN OF THE SUPPORT STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE LOADS LISTED IN NOTE 5.
9. SCREW ANCHORS OR LAG SCREWS SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

MAX SPACING OF ANCHORS/SCREWS PER JAMB (IN)			
3/8" SIMPSON TITEN HD SCREW ANCHOR TO MINIMUM 2000 PSI CONCRETE ^{NOTE 1}	3/8" SIMPSON TITEN HD SCREW ANCHOR TO MINIMUM 2000 PSI GROUT FILLED CMU ^{NOTE 2}	3/8" X 3" LONG LAG SCREW ^{NOTE 3}	
24	16	24	

THE DRAWINGS AND ALL OTHER INFORMATION CONTAINED HEREIN ARE THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF OVERHEAD DOOR CORPORATION AND ITS AFFILIATED COMPANIES. THIS DRAWING AND INFORMATION, IN WHOLE OR IN PART, MAY NOT BE COPIED IN ANY MANNER OR DISCLOSED TO ANYONE WITHOUT THE PRIOR WRITTEN CONSENT OF OVERHEAD DOOR CORPORATION. NO DISCLOSURE OF ANY OF THIS DRAWING OR INFORMATION IS INTENDED TO OPERATE AS A LICENSE OR AUTHORIZATION TO USE IT FOR ANY PURPOSE WITHOUT THE SPECIFIC WRITTEN CONSENT OF OVERHEAD DOOR CORPORATION.									
				TOLERANCES UNLESS OTHERWISE SPECIFIED		FINISH		DRAWS	
		WHOLE NUMBERS:		± .25		N/A		NAME	
		X		± .1		N/A		DATE	
		XX		± .03		N/A		3/27/20	
		XXX		± .010		N/A		J QIAN	
		ANGLES:		± .5		N/A		CHECKED BY:	
		HITS:		±		N/A		T CLARK	
								10/12/20	
								APPROVED BY:	
								L KRUPKE	
								10/12/20	
								DRAWING NUMBER	
								D-410216	
								SCALE	
								N/A	
								SHEET 2 OF 2	
								2	
REF DWG	USED ON								