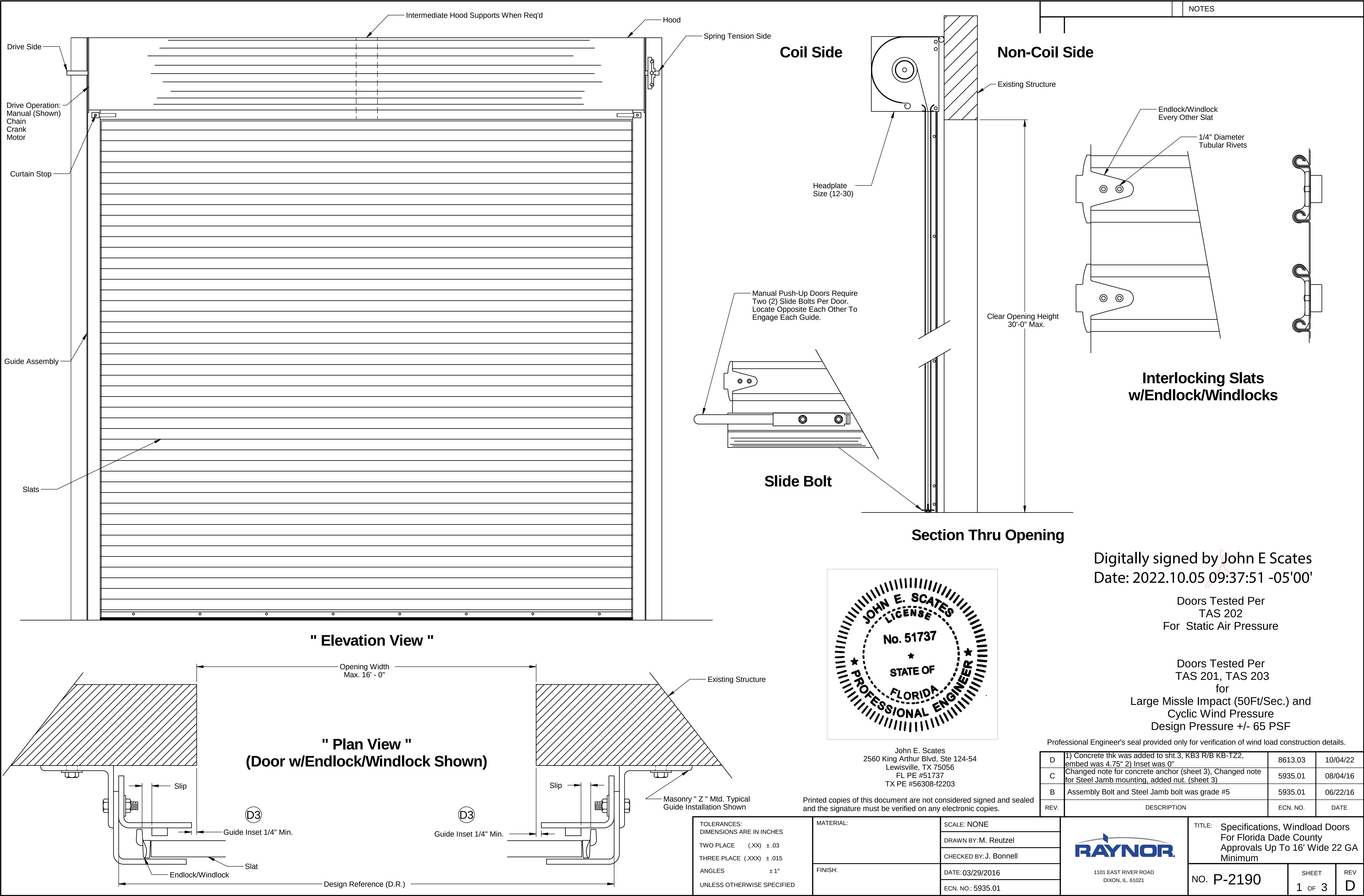
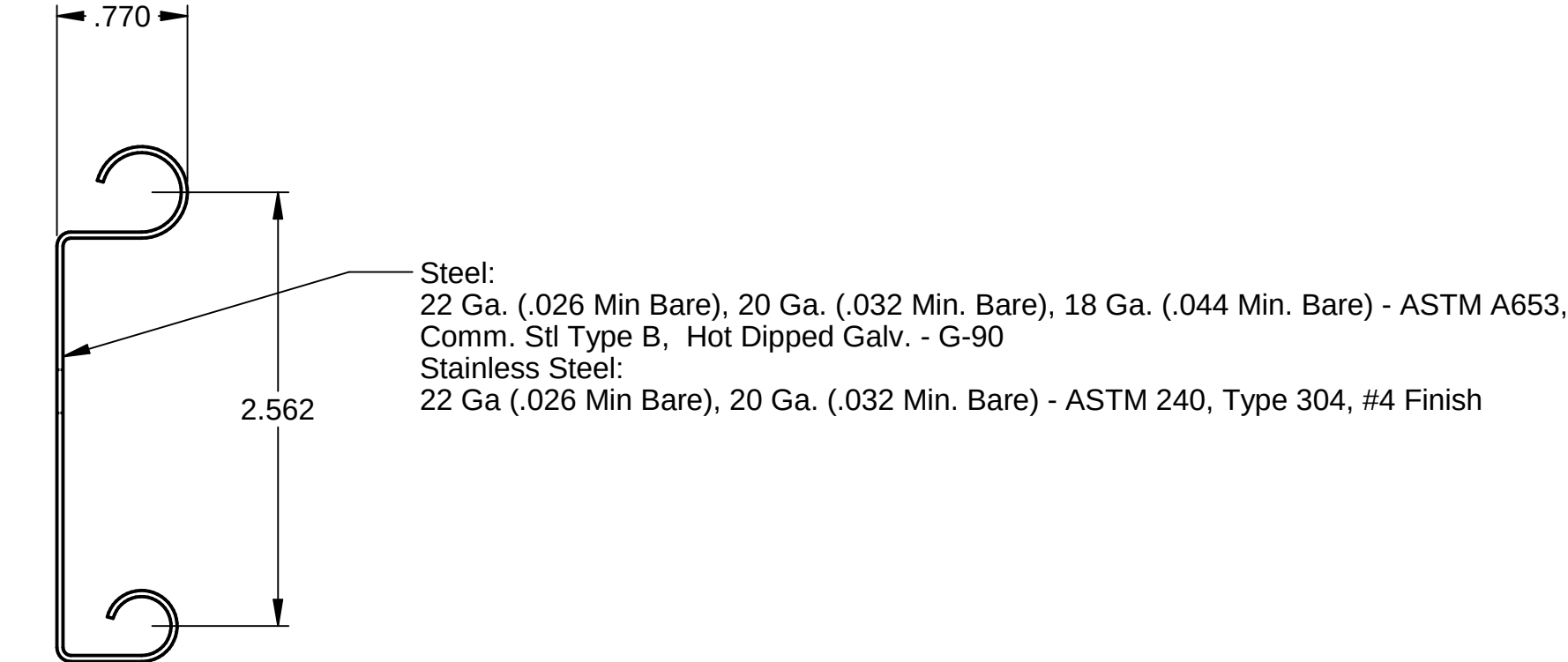


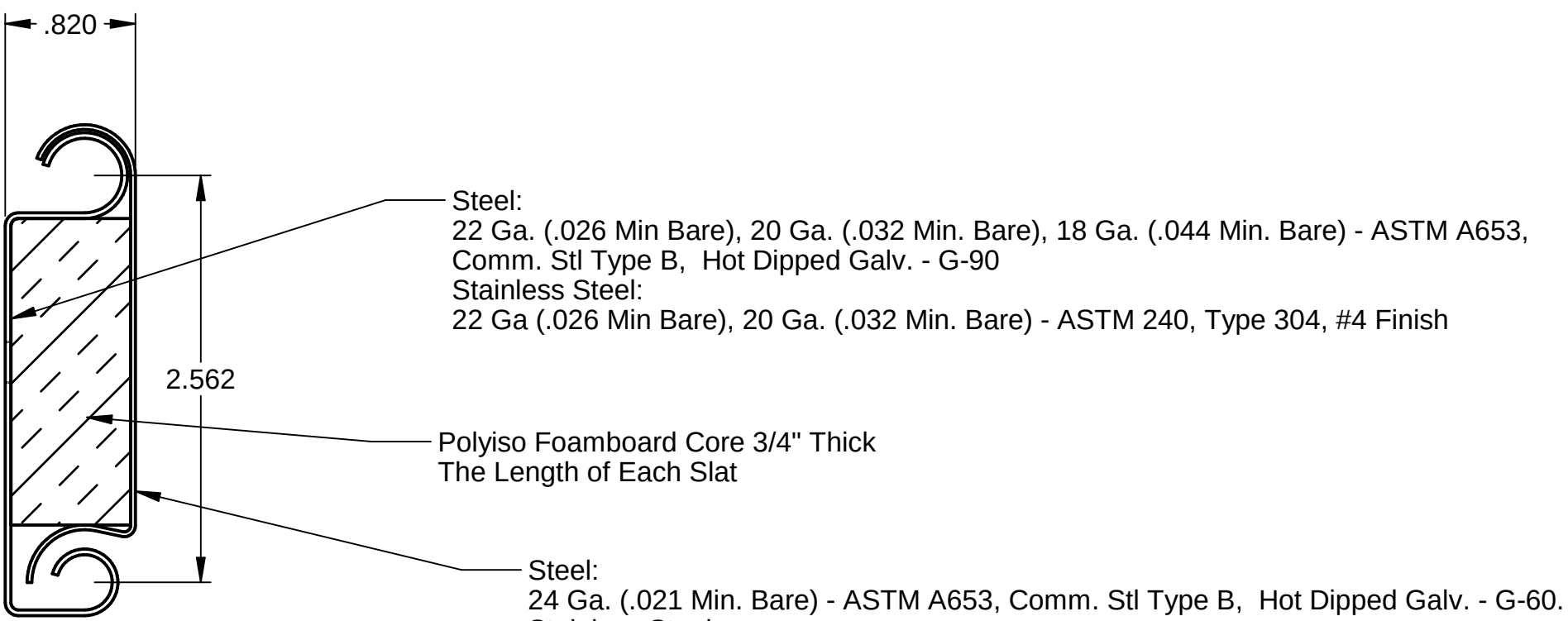


General Specifications

- 1) DOORS shall be rolling steel model DURACOIL (Standard Service Door) as manufactured by Raynor Garage Doors.
- 2) GUIDES - Structural steel angles, in accordance to ASTM A36 Steel, Min. 3/16" thick. Top of guide angles flared and provided with 4 removable curtain stops.
- 3) BRACKETS - Steel plates, in accordance to ASTM A36 Steel, Min. 3/16" thick, bolted to guides for mounting curtain and barrel assembly. Drive side bracket shall be fitted with a sealed ball bearing for long life.
- 4) BARREL - Structural steel pipe, Minimum 4 1/2" O.D. x .120" wall thickness and designed to limit maximum deflection, under load, to .03" per foot of span.
- 5) SPRING COUNTERBALANCE - The curtain shall be counterbalanced by means of oil tempered, helical torsion springs, grease-packed and mounted on a single continuous steel torsion shaft. Springs shall be compression spring design to facilitate any counterbalance maintenance. Cast iron spring anchors shall transfer full spring loading to the barrel.
- 6) HOOD - Shall be 24 ga. Commercial quality hot-dipped galvanized steel. Hood to have rolled edges to provide rigidity.
- 7) GUIDE HARDWARE - All bolts and washers shall be galvanized steel or stainless steel with a minimum bolt tensile strength of 60 K.S.I.
- 8) ENDLOCK/WINDLOCKS - Shall be cast malleable iron, in accordance to ASTM A47 - GRADE 32510 with electroplating in accordance to ASTM B633, clear chromate, Min. .0007 zinc coating thickness.
- 9) CURTAIN FLAT SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel per ASTM A653, Type 'B' (min. 30,000 psi) or stainless steel per ASTM 240, Type 304 (min. 30,000 psi). Malleable endlock/windlocks fastened to alternate slats with 2 rivets per lock, eliminates lateral movement and prevent slats from wearing at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with 2 steel angles, Min. 2" x 2" x .130" or 2" x 2" x 3/16" stainless steel.
- 10)CURTAIN INSULATED SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel per ASTM A653, Type 'B' (min. 30,000 psi) .or stainless steel per ASTM 240, Type 304 (min. 30,000 psi). Each slat shall have a 3/4" thick polyiso foamboard core placed within the full length of the slat. Backing cover rollformed from 24 ga. commercial quality hot dipped galvanized (G-60) steel per ASTM A653 or stainless steel per ASTM 240. Malleable endlock/windlocks fastened to alternate slats with 2 rivets per lock, eliminates lateral movement and prevent slats from wearing at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with 2 steel angles, Min. 2" x 2" x .130" or 2" x 2" x 3/16" stainless steel.

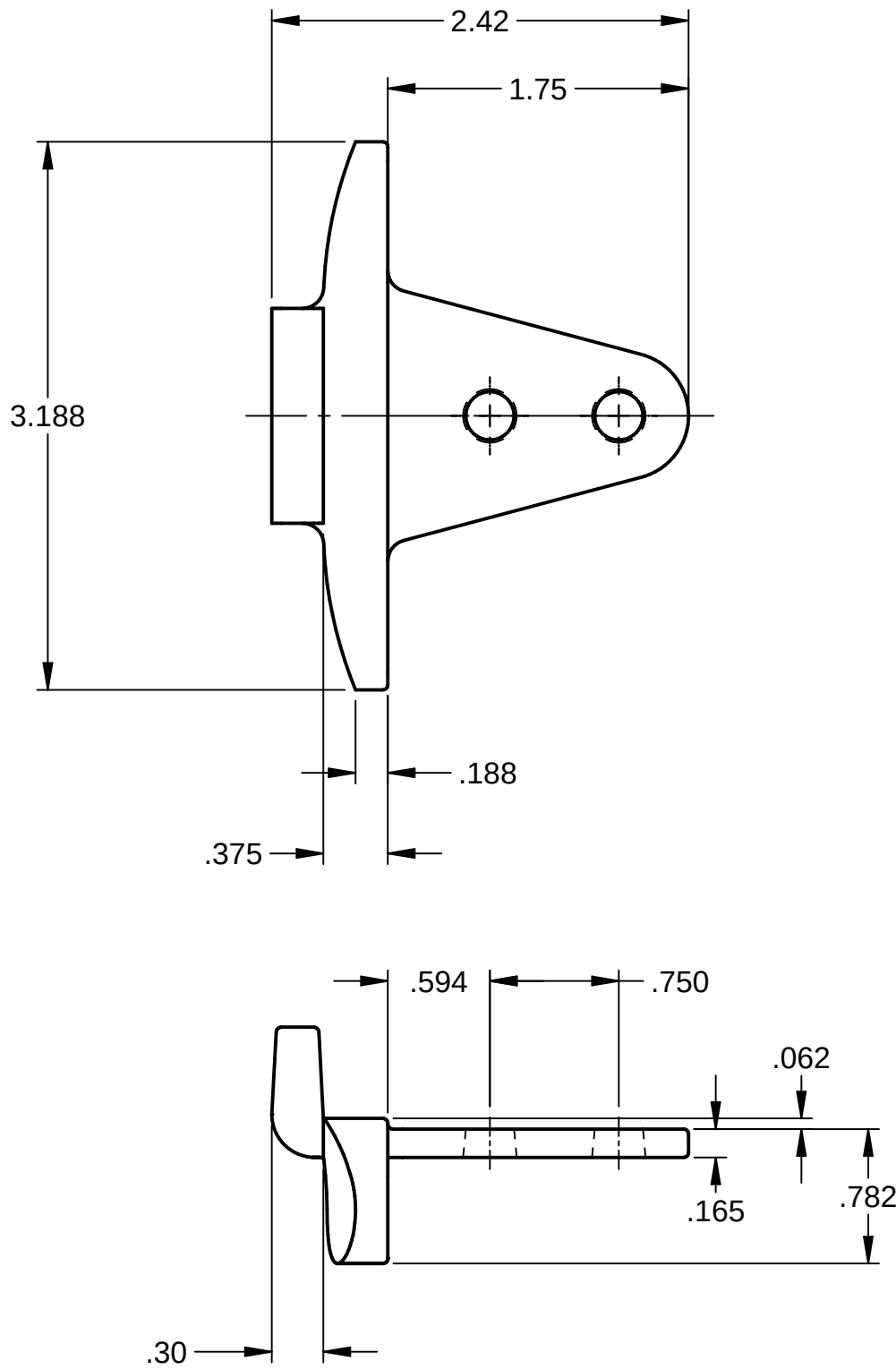


Flat Slat
" FF "

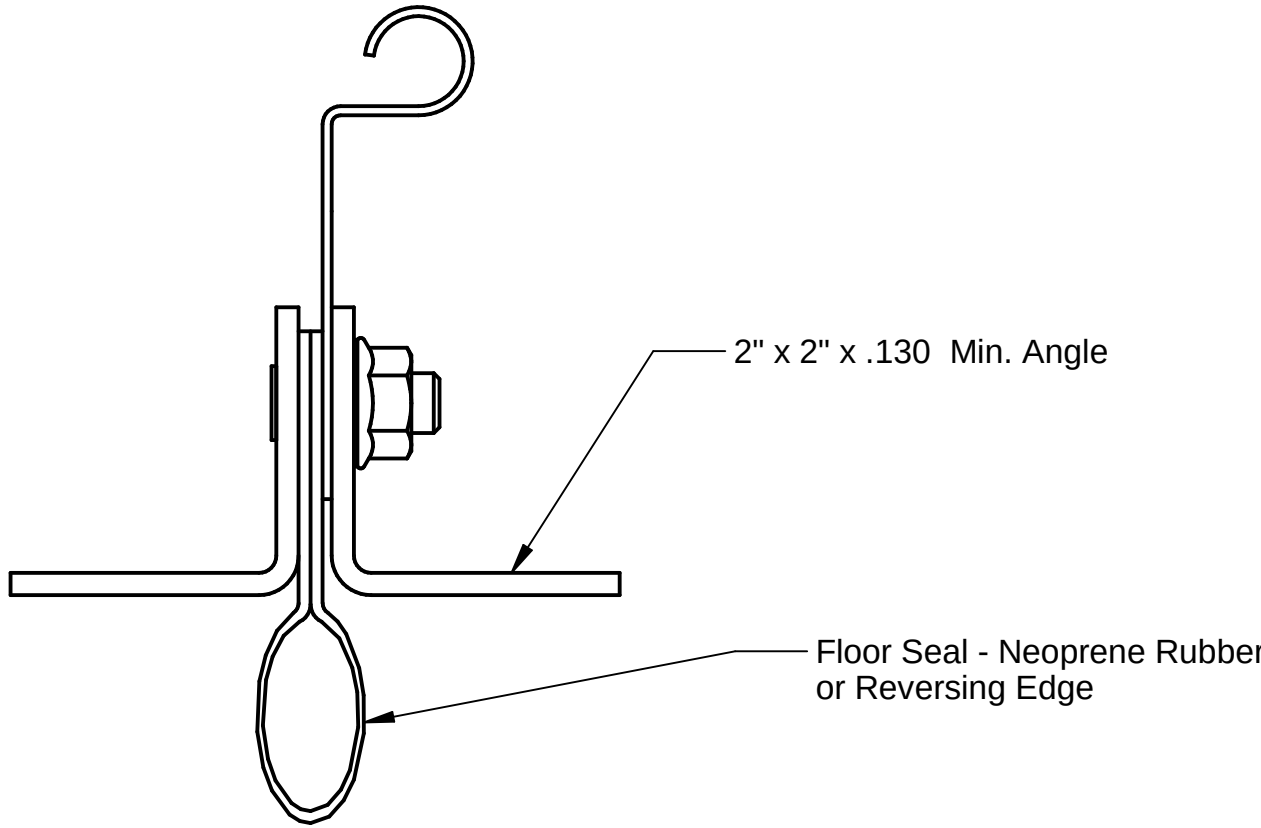
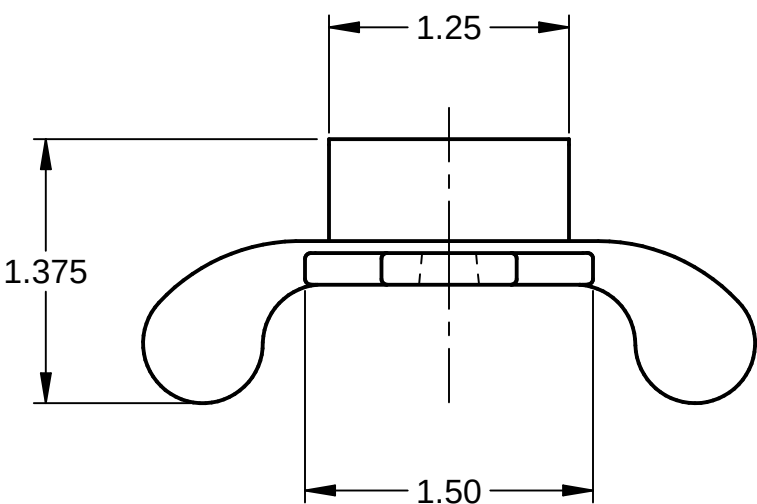
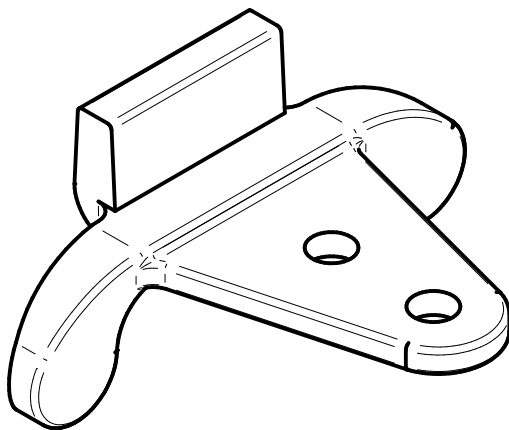


Insulated
Flat Slat
" IF "

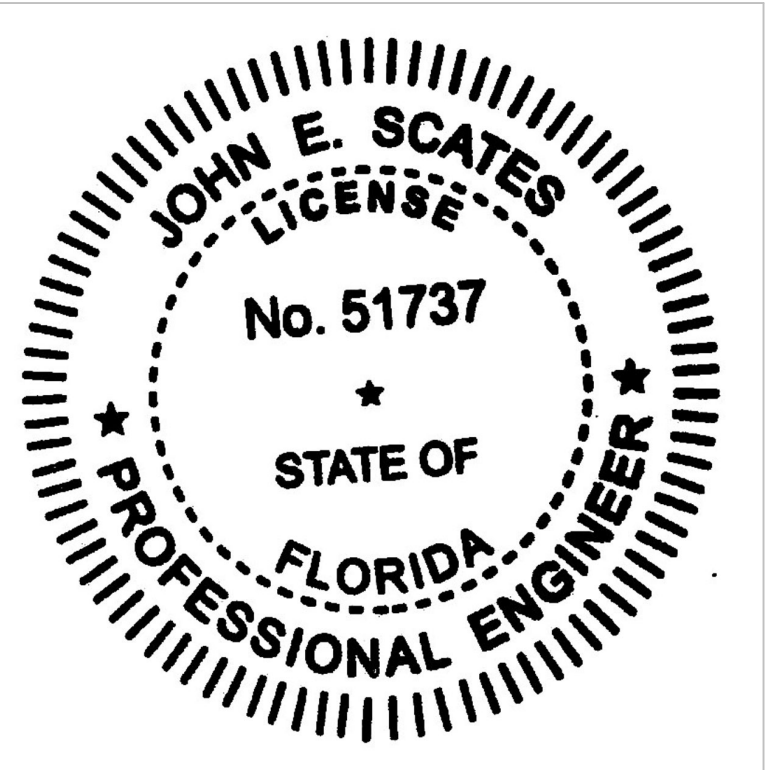
Flat Slat and Insulated Flat Slat Profiles



Malleable Cast Iron Endlock/Windlock



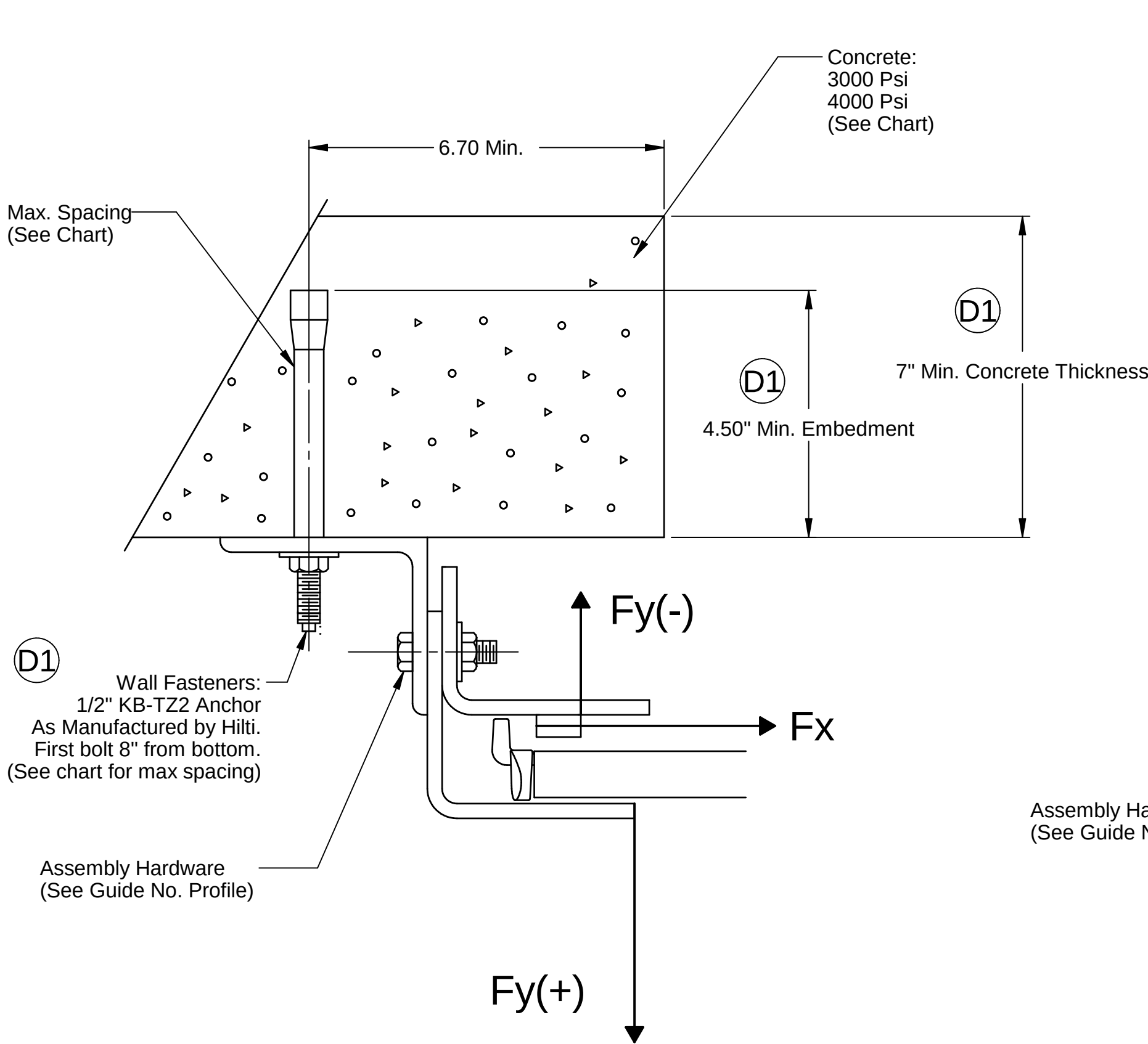
Bottom Bar Standard Assembly



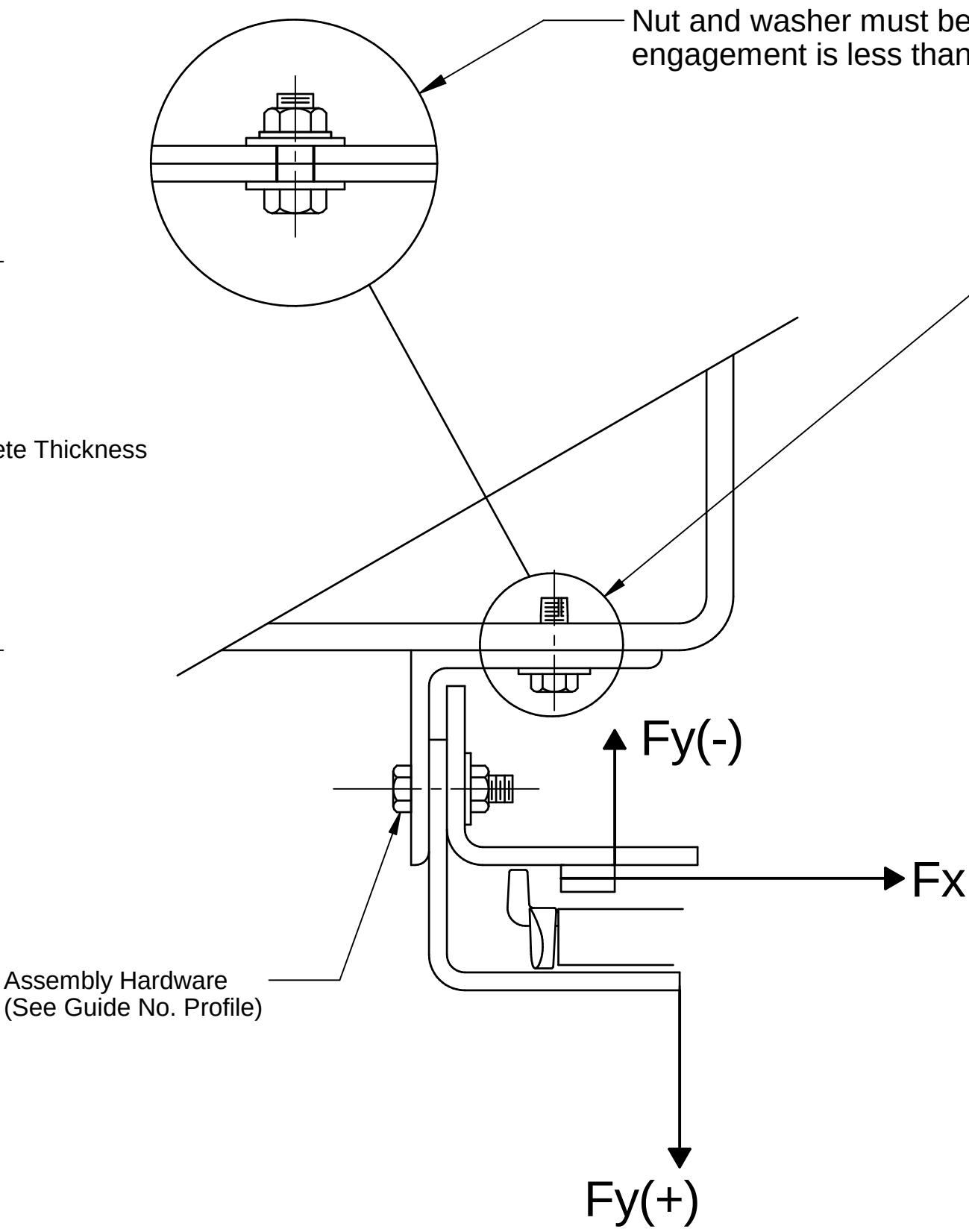
John E. Scates
2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
FL PE #51737
TX PE #56308-f2203

Professional Engineer's seal provided only for verification of wind load construction details.

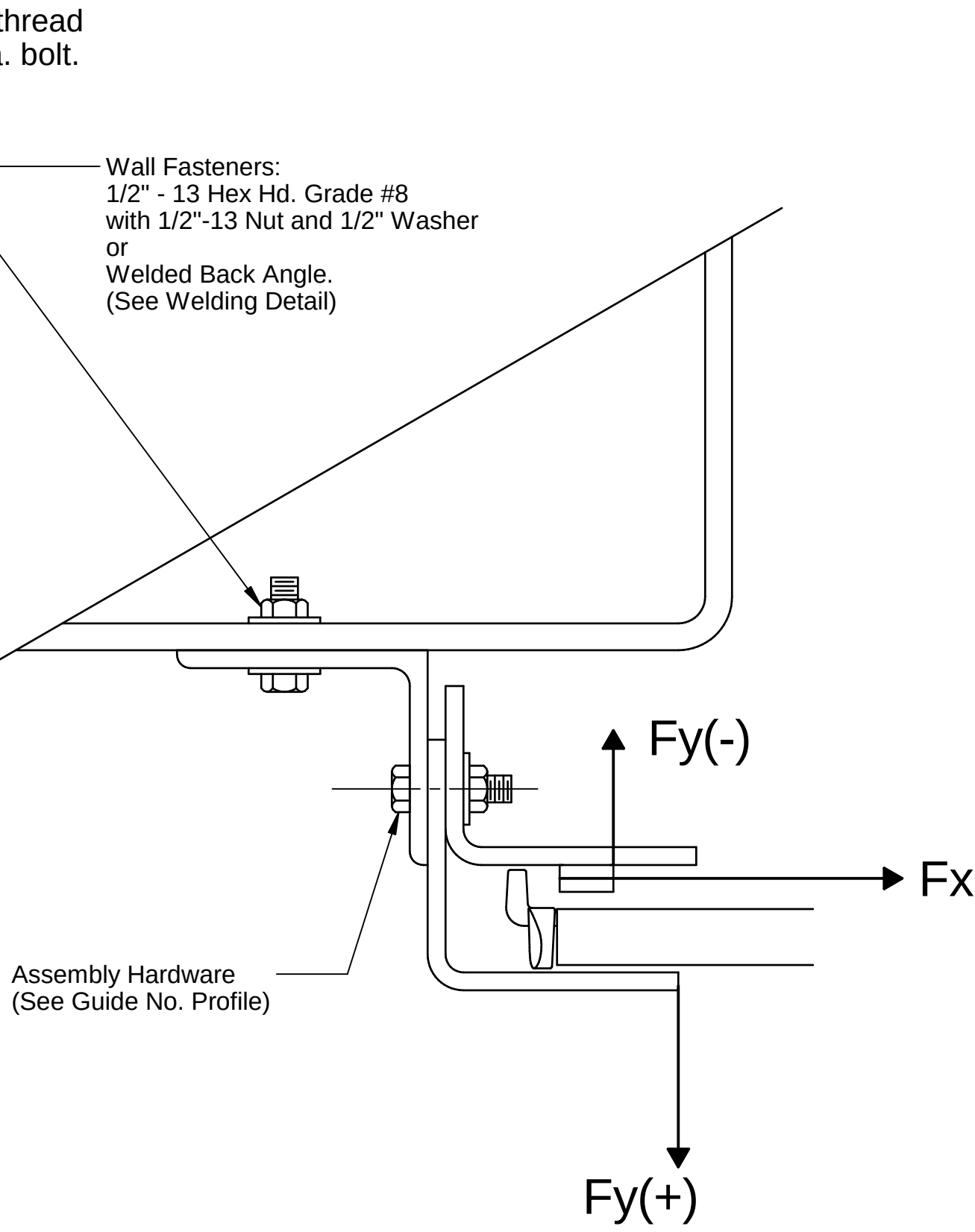
TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (.XX) ± .03 THREE PLACE (.XXX) ± .015 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED	MATERIAL:	SCALE: NONE	 1101 EAST RIVER ROAD DIXON, IL. 61021	TITLE: Specifications, Windload Doors For Florida Dade County Approvals Up To 16' Wide 22 GA Minimum		
		DRAWN BY: M. Reutzel				
		CHECKED BY: J. Bonnell				
	FINISH:	DATE: 03/29/2016				
		ECN. NO.: 5935.01		NO. P-2190	SHEET 2 OF 3	REV D



Concrete Jamb - " Z " Mtd.



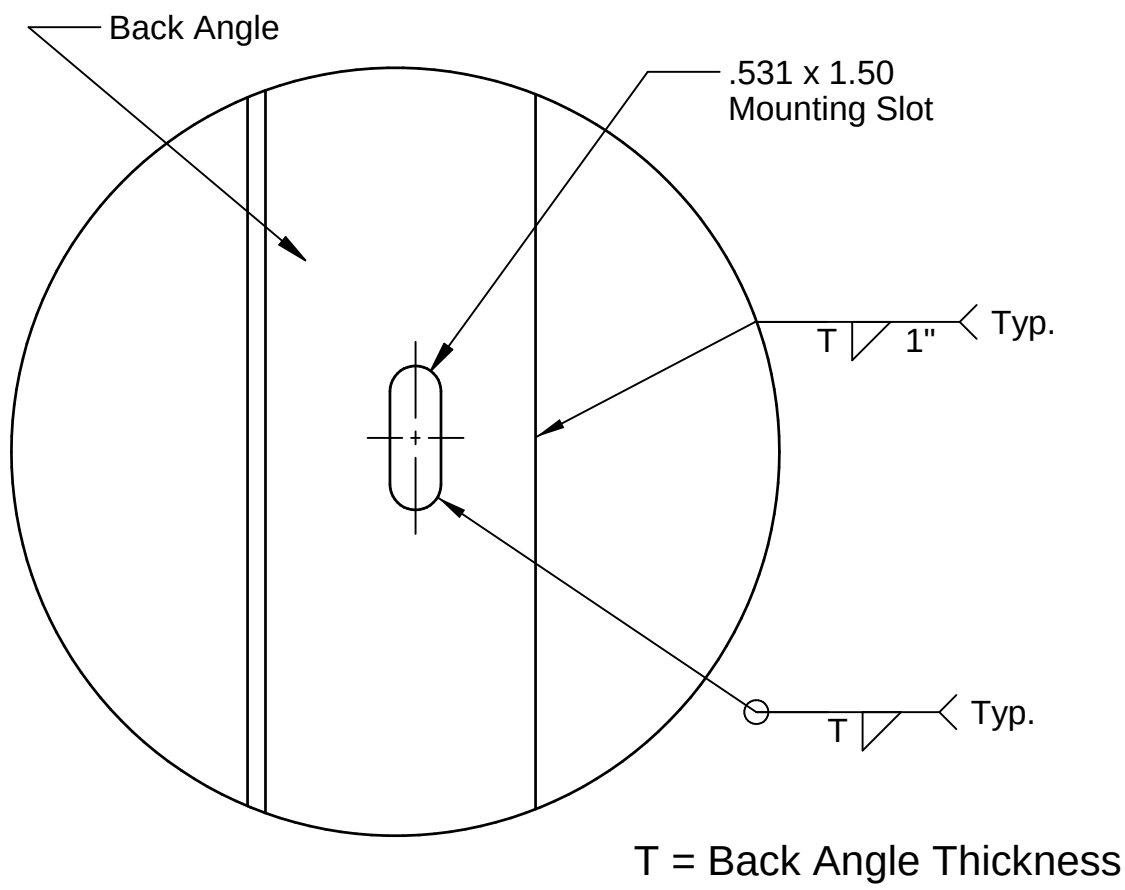
Steel Jamb - " E " Mtd.



Steel Jamb - " Z " Mtd.

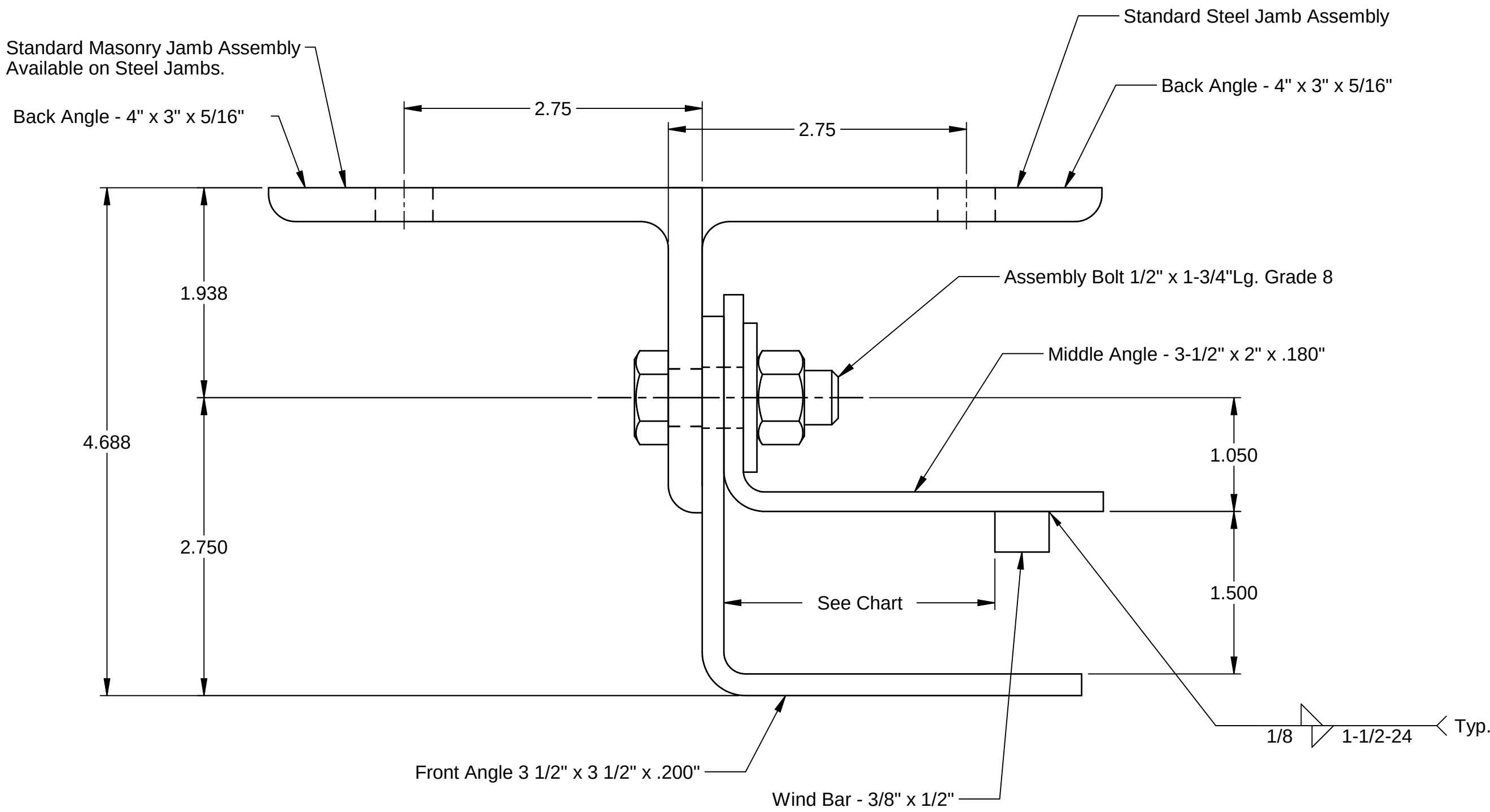
Notes:

- 1. Building Designer Note: Structure must be designed to support the forces of "Fx" and "Fy" shown in chart
- 2. Fx and Fy are horizontal and vertical components of the reaction, resulting from windloads on the rolling steel door. The existing structure shall be capable of resisting Fx and Fy forces shown.



Welding Detail

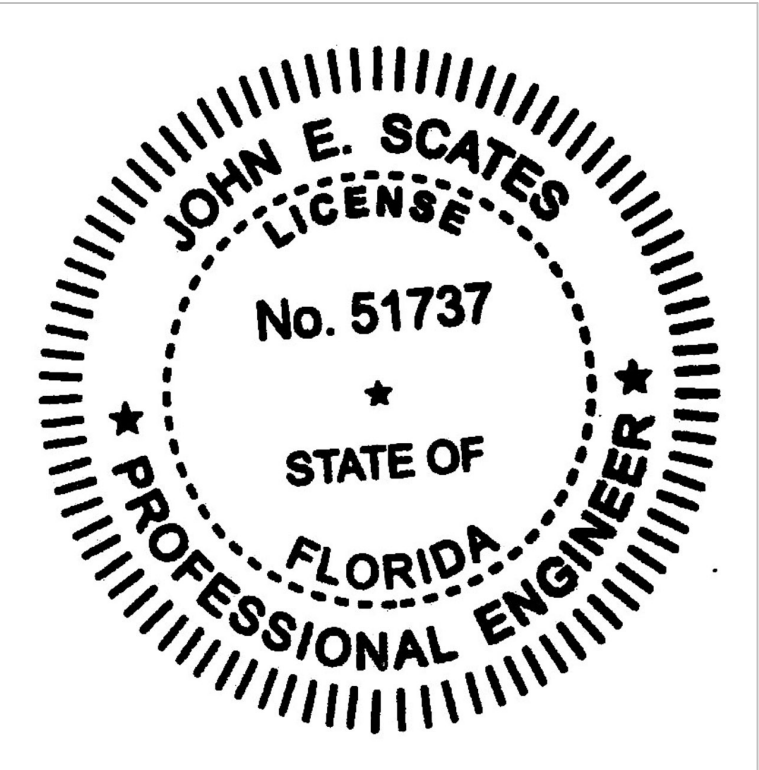
(Weld may be used in lieu of bolting at same bolt spacing)



Guide Ass'y #105

DuraCoil												
Rev.	Door Opening Width Including	Slat Type	Slat Gauge	Slat Length	Design Load PSF	Slip	Wind Bar Location	Bolt Spacing Steel Jambs	Anchor Spacing Concrete Jambs 3000 PSI	Anchor Spacing Concrete Jambs 4000 PSI	Guide Load F _x Lbs./Ft.	Guide Load F _y Lbs./Ft.
	16'	FF	22, 20, or 18	D.R. - 3.00	65	1.00	2.12	16"	11"	12"	1659	520
	16'	IF	22, 20, or 18	D.R. - 3.00	65	1.00	2.12	20"	15"	16"	1162	520

Notes:
D.R. = Design Reference



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2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
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		CHECKED BY: J. Bonnell					
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