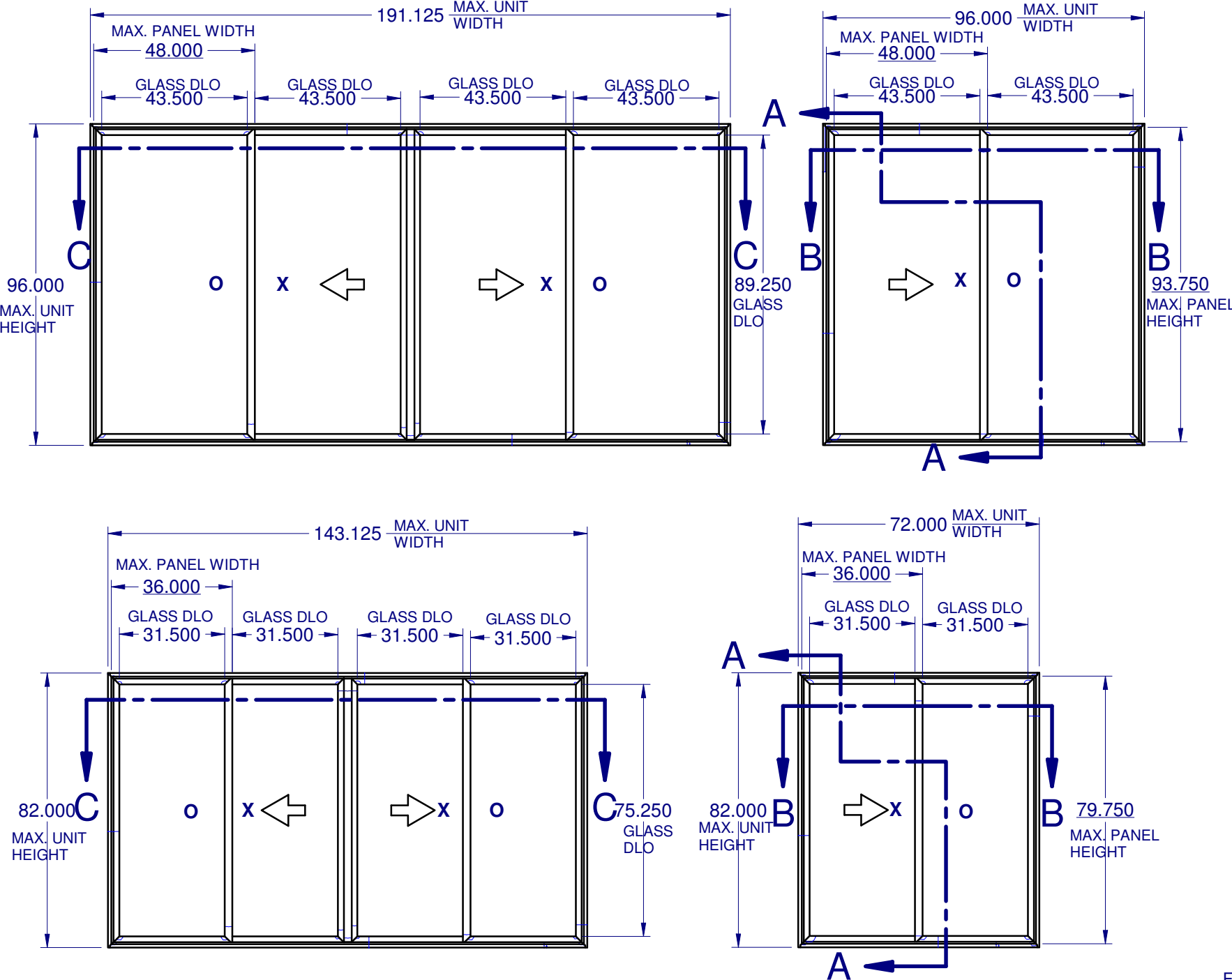
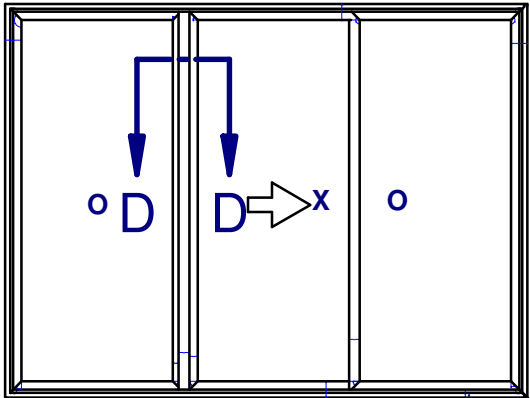


SLIDING GLASS DOOR - LARGE MISSILE IMPACT



- GENERAL NOTES:
- 1.) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC),CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
 - 2.) GLAZING OPTIONS: (SEE SHT. 3)
 - 3.) APPROVED CONFIGURATIONS: "XO", "OX", "OXO", "OXXO"
 - 4.) DESIGN PRESSURE RATING:
 - NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04/09.
 - POSITIVE DESIGN LOADS BASED ON TESTED PRESSURE, WATER INFILTRATIONTEST RESSURE AND ASTM E-1300-04/09.
 - 5.) ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 11 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
 - 6.) THIS PRODUCT IS IMPACT LARGE MISSILE RESISTANT. IMPACT PROTECTIVE SYSTEMS (SHUTTERS) ARE NOT REQUIRED.
 - 7.) ALL FRAMES ARE PROCESSED AND SCREWED TOGETHER, OR FULLY WELDED. ALL VENTS FULLY WELDED.
 - 8.) SERIES / MODEL DESIGNATION: SGD-550.
 - 9.) THE DESIGNATION "X" OR "O" STAND FOR THE FOLLOWING:
"X" = OPERABLE PANEL, "O" = FIXED PANEL.
 - 10.) SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
 - 11) WEEP SLOTS = 3/16" x 1", 3" FROM EACH END ON "XO", "OX", AND "OXO", AND ADDTIONAL 3/16" x 1" WEEP, 4" FROM C END WEEP ON "OXXO" (SEE SHT. 7).



FOR PANEL SIZE LIMITS SEE OTHER ELEVATIONS.

TABLE OF CONTENTS:

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INSTALLATION DETAILS.....	8 & 9

MAX. PANEL SIZE	GLASS TYPE	DESIGN PRESSURE RATING	IMPACT RATING
36" x 79 3/4"	A	SEE DESIGN PRESSURE CHART, SHT 3	LARGE MISSILE
48" x 93 3/4"	B	SEE DESIGN PRESSURE CHART, SHT 3	LARGE MISSILE

Lucas Turner
2020.10.01
17:44:11 -05'00'

LUCAS A. TURNER, FL P.E. 58201

LICENSE
No. 58201
10/1/2020
Lucas A. Turner, FL P.E. #58201
Turner Eng. & Cons., Inc.
FBPE COA #29779
2428 Old Natchez Trc. Trl.
Camden, TN 38320
Ph. 941-380-1574

PROFESSIONAL ENGINEER
STATE OF FLORIDA

LAWSON
INDUSTRIES, INC.

8501 N. W. 90th Street
Medley, FL 33166

TITLE: GENERAL NOTES & ELEVATIONS

SERIES: SGD-550

DRAWN BY: MCL

DATE: 01/27/2020

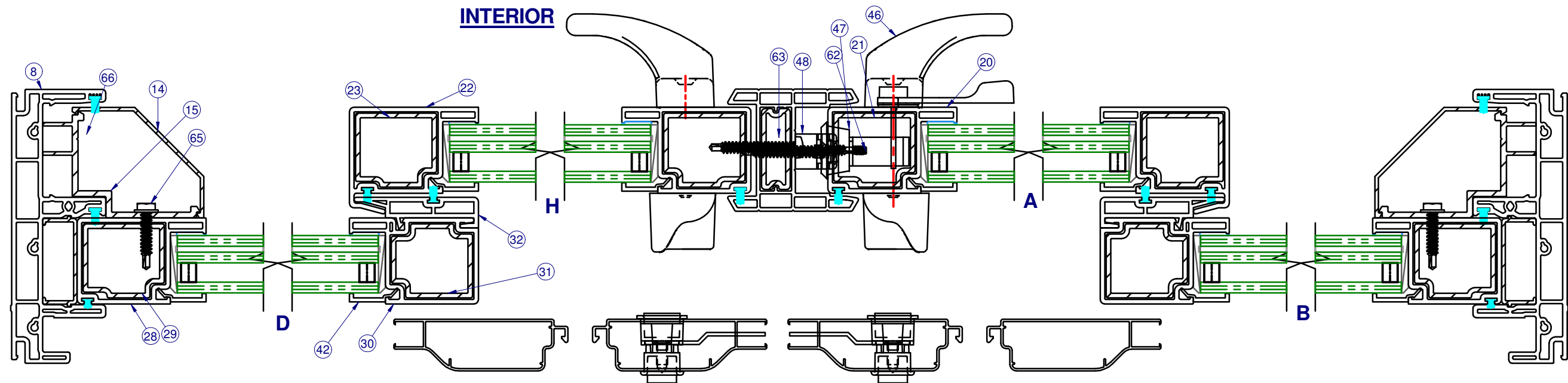
MODEL:

SCALE: N.T.S.

DWG. NO. L-550-2001

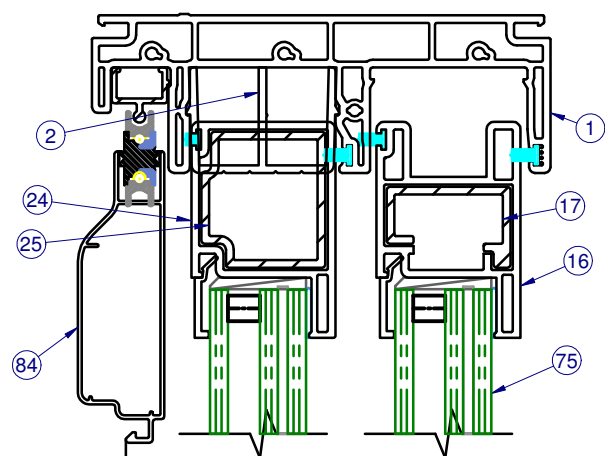
REV. LETTER:

SHEET SHT 1 of 9



EXTERIOR

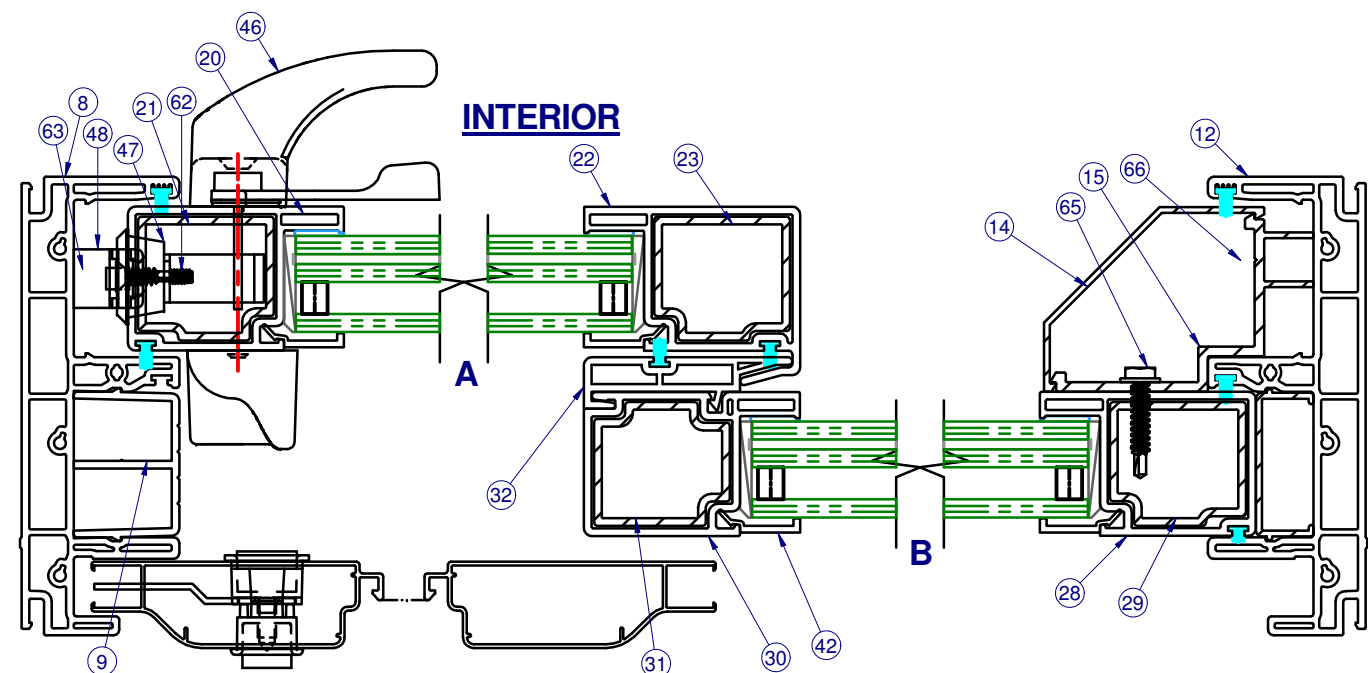
SECTION C - C
HORIZONTAL SECTION
OXXO



INTERIOR

EXTERIOR

SECTION D - D
HORIZONTAL SECTION
OXO ALTERNATE



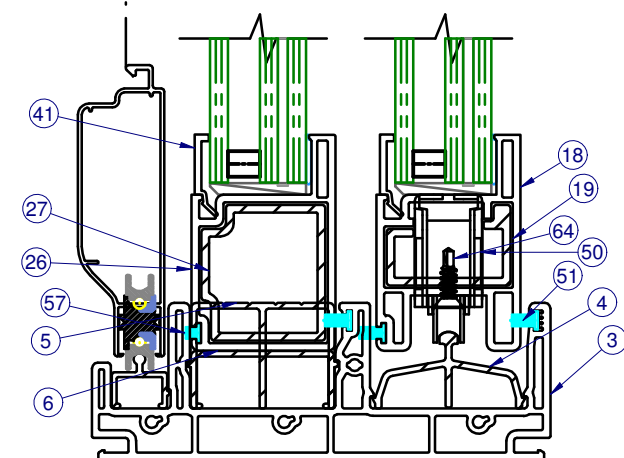
INTERIOR

EXTERIOR

SECTION B - B
HORIZONTAL SECTION
XO or OX

EXTERIOR

INTERIOR



SECTION A - A
VERTICAL SECTION

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INDUSTRIES, INC.

8501 N. W. 90th Street
Medley, FL 33166

TITLE: SECTION VIEWS

SERIES: SGD-550

MODEL:

DRAWN BY: MCL

SCALE: N.T.S.

REV. LETTER:

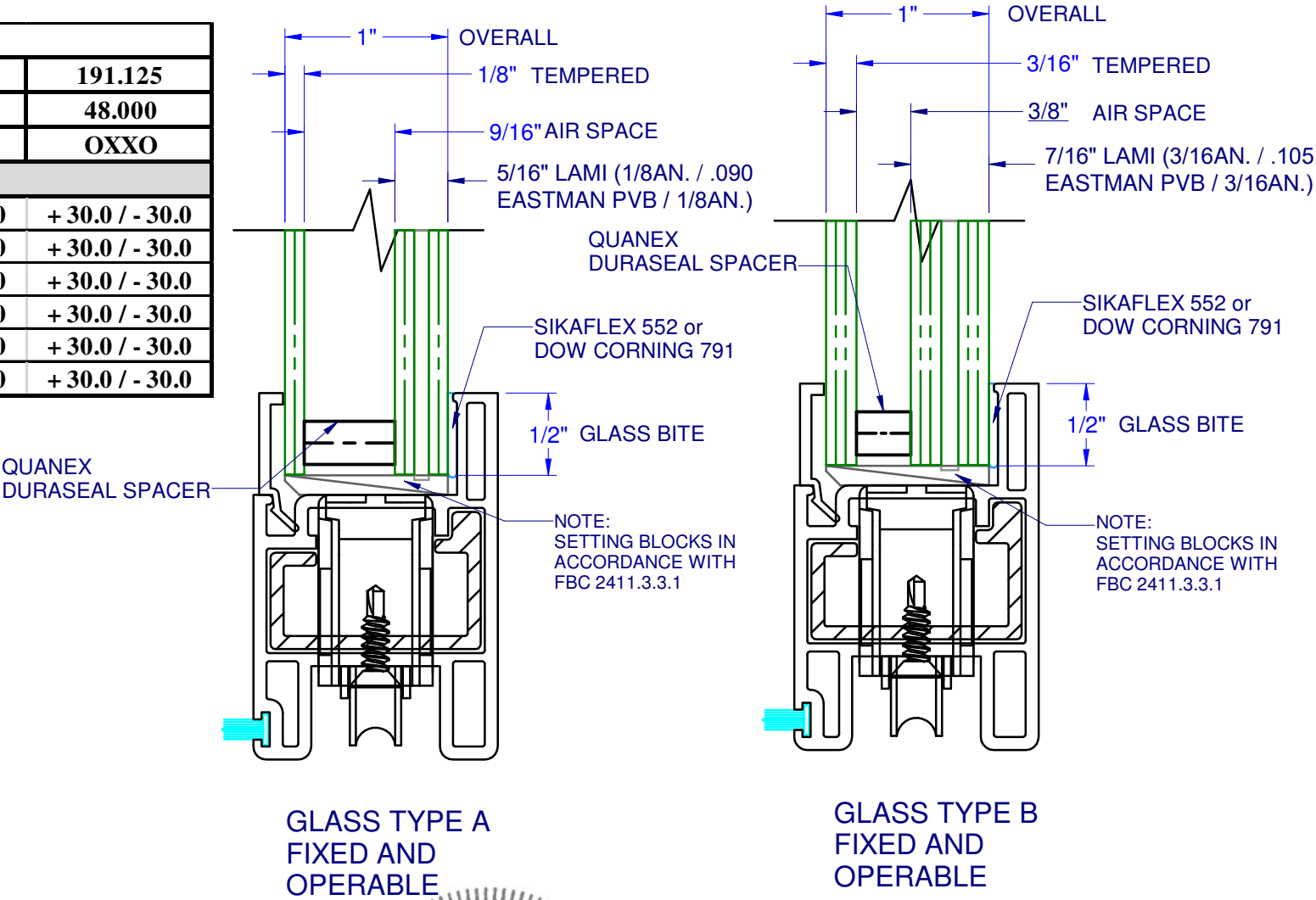
DATE: 01/27/2020

DWG. NO. L-550-2001

SHEET SHT 2 of 9

		WIDTH								
		48.000	60.000	72.000	72.750	90.750	108.750	95.125	119.125	143.125
	PANEL SIZE	24.000	30.000	36.000	24.000	30.000	36.000	24.000	30.000	36.000
UNIT	CONFIGURATION	XO, OX	XO, OX	XO, OX	OXO	OXO	OXO	OXXO	OXXO	OXXO
HEIGHT	GLASS TYPE									
80.000	A	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0
82.000	A	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0
84.000	B	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0
90.000	B	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0
94.000	B	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0
96.000	B	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0

		WIDTH					
		84.000	96.000	126.750	144.750	167.125	191.125
	PANEL SIZE	42.000	48.000	42.000	48.000	42.000	48.000
UNIT	CONFIGURATION	XO, OX	XO, OX	OXO	OXO	OXXO	OXXO
HEIGHT	GLASS TYPE						
80.000	B	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0
82.000	B	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0
84.000	B	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0
90.000	B	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0
94.000	B	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0
96.000	B	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 40.0 / - 40.0	+ 30.0 / - 30.0	+ 30.0 / - 30.0



LUCAS A. TURNER, FL P.E. 58201

LICENSE

No. 58201

10/1/2020

PROFESSIONAL ENGINEER

STATE OF FLORIDA

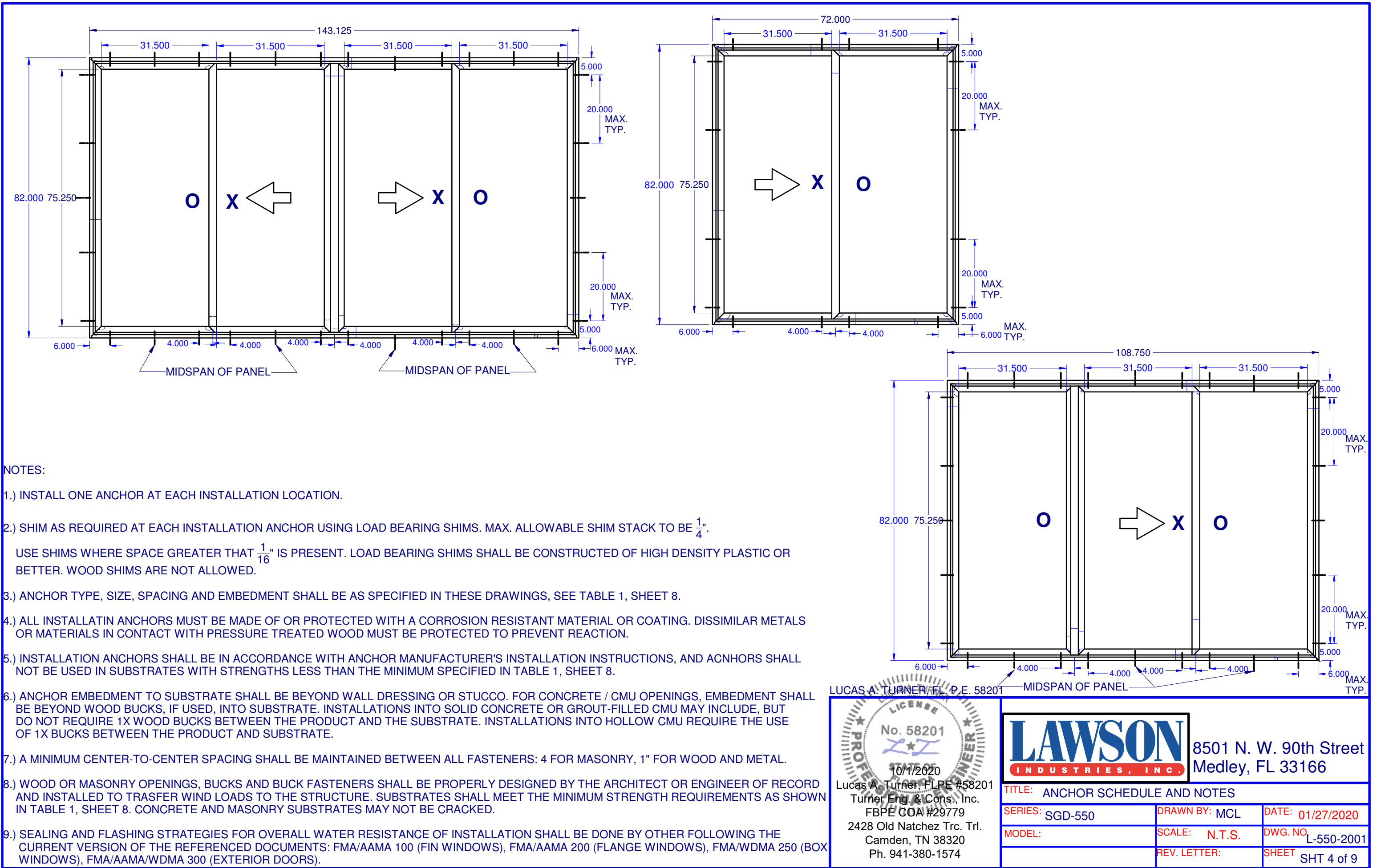
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FBPE COA #29779
2428 Old Natchez Trc. Trl.
Camden, TN 38320
Ph. 941-380-1574

LAWSON

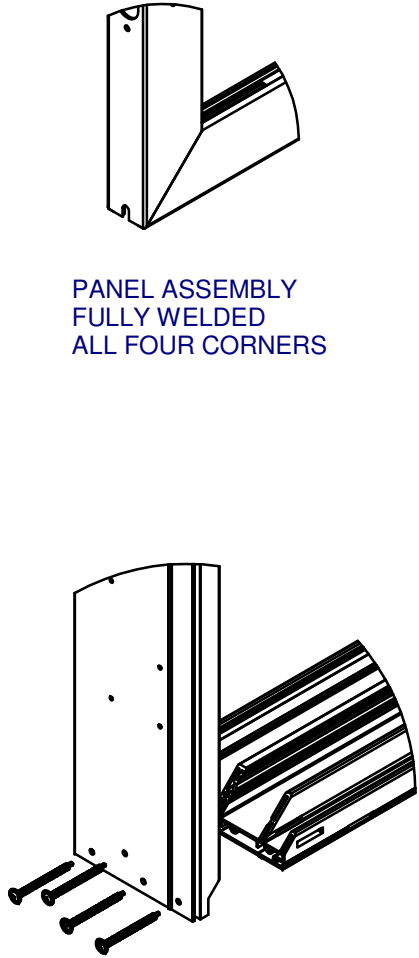
INDUSTRIES, INC.

8501 N. W. 90th Street
Medley, FL 33166

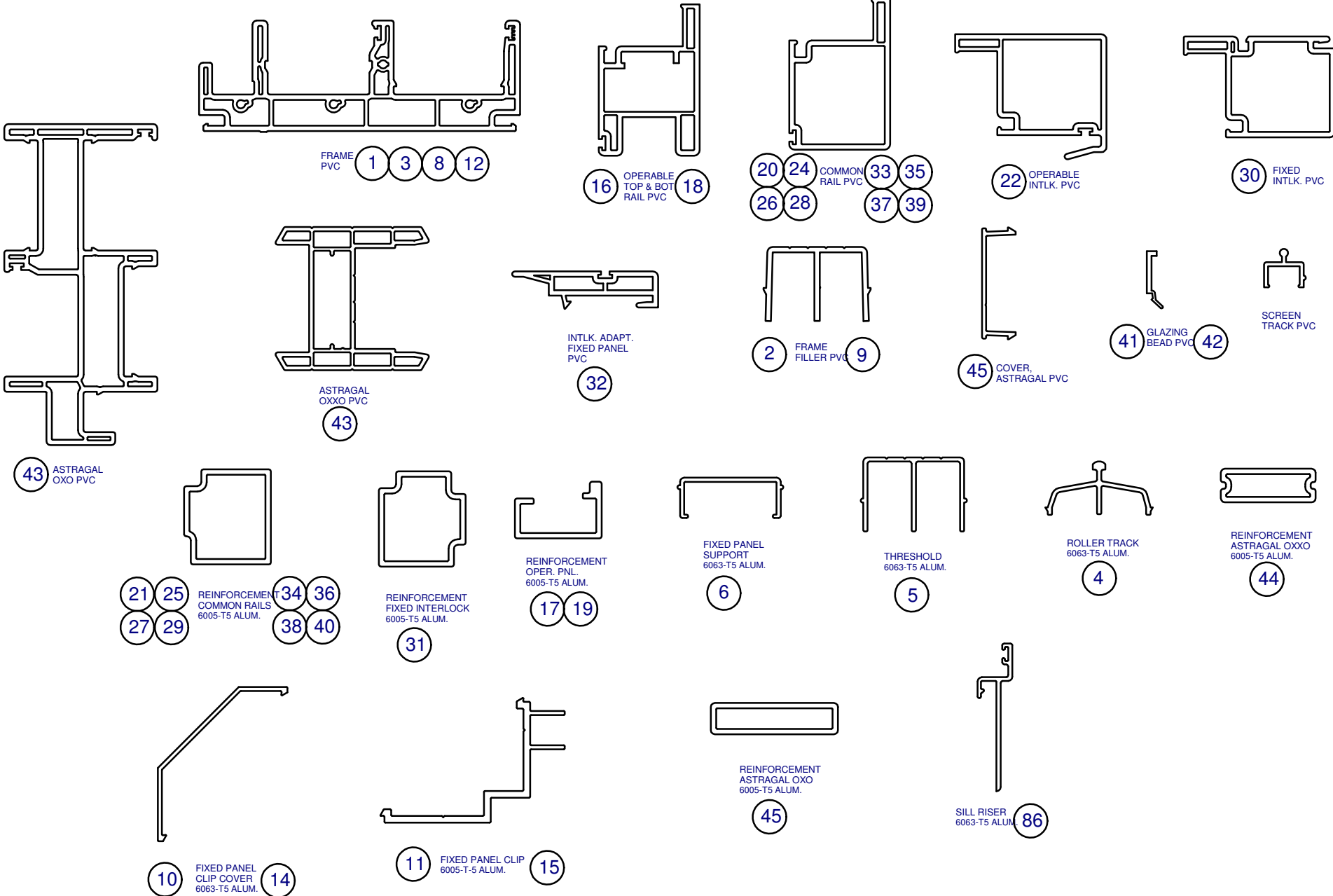
TITLE: GLAZING DETAILS AND COMPARATIVE ANALYSIS		
SERIES: SGD-550	DRAWN BY: MCL	DATE: 01/27/2020
MODEL:	SCALE: N.T.S.	DWG. NO. L-550-2001
	REV. LETTER:	SHEET SHT 3 of 9



Item #	Description	Material	Vendor	Vendor #
1	Fr., NoFin, Head	Rigid PVC	Mikron	H-10424
2	Filler, Fr., Hd-Trk1	Rigid PVC	Mikron	S-6593
3	Fr., NoFin, Sill	Rigid PVC	Mikron	H-10424
4	Track, Roller, Sill	Alum.	Profile	LII-225
5	Threshold, Sill	Alum.	Profile	LII-224
6	Support, Fxd. Pnl., Sill	Alum.	Profile	LII-221
8	Fr., NoFin, Jb., Lft.	Rigid PVC	Mikron	H-10424
9	Filler, Fr., Jb., Lft., Trk1	Rigid PVC	Mikron	S-6593
10	Cvr., Fxd. Pnl. Clip, Jb., Lft.	Alum.	Profile	LII-220
11	Clip, Fxd. Pnl., Jb., Lft.	Alum.	Keymark	FS-10105
12	Fr., NoFin, Jb., Rht.	Rigid PVC	Mikron	H-10424
14	Cvr., Fxd. Pnl. Clip, Jb., Rht.	Alum.	Profile	LII-220
15	Clip, Fxd. Pnl., Jb., Rht.	Alum.	Keymark	FS-10105
16	Pnl., Top, Bot, Top Rail	Rigid PVC	Mikron	H-10620
17	Reinf., Pnl., T&B, Top Rail	Alum.	Profile	LII-222
18	Pnl., Top, Bot, Bot. Rail	Rigid PVC	Mikron	H-10620
19	Reinf., Pnl., T&B, Bot. Rail	Alum.	Profile	LII-222
20	Pnl., Rail, Lock Rail	Rigid PVC	Mikron	H-10621
21	Reinf., Pnl., Lock Rail	Alum.	Keymark	FH-10109
22	Intlk., Op.	Rigid PVC	Mikron	H-10619
23	Reinf., Pnl.	Alum.	Keymark	FH-10109
24	Pnl., Rail, Top Rail	Rigid PVC	Mikron	H-10621
25	Reinf., Pnl., Top Rail	Alum.	Keymark	FH-10109
26	Pnl., Rail, Bot. Rail	Rigid PVC	Mikron	H-10621
27	Reinf., Pnl., Bot. Rail	Alum.	Keymark	FH-10109
28	Pnl., Rail, Side Rail	Rigid PVC	Mikron	H-10621
29	Reinf., Pnl., Side Rail	Alum.	Keymark	FH-10109
30	Intlk., Fxd.	Rigid PVC	Mikron	H-10866
31	Reinf., Intlk., Fxd.	Alum.	Keymark	FH-10108
32	Adapt., Intlk., Fxd.	Rigid PVC	Mikron	H-6591
33	Pnl., Rail, Top Rail	Rigid PVC	Mikron	H-10621
34	Reinf., Pnl., Top Rail	Alum.	Keymark	FH-10109
35	Pnl., Rail, Bot. Rail	Rigid PVC	Mikron	H-10621
36	Reinf., Pnl., Bot. Rail	Alum.	Keymark	FH-10109
37	Pnl., Rail, Side Rail	Rigid PVC	Mikron	H-10621
38	Reinf., Pnl., Side Rail	Alum.	Keymark	FH-10109
39	Pnl., Rail, Side Rail	Rigid PVC	Mikron	H-10621
40	Reinf., Pnl., Side Rail	Alum.	Keymark	FH-10109
41	Glz., Bd., Horiz.	Rigid PVC	Mikron	S-5927
42	Glz., Bd., Vert.	Rigid PVC	Mikron	S-5927
43	Astg., OXXO	Rigid PVC	Mikron	H-9708
43	Astg., OXO	Rigid PVC	Mikron	H-9711
44	Reinf., Astg., OXXO	Alum.	Keymark	FH-10107
44	Reinf., Astg., OXO	Alum.	Keymark	FH-10106
45	Cvr., Astg., OXO, Astg.	Rigid PVC	Mikron	S-9776
46	Handle Kit, Int/Ext. w/ Thumbturn		Roto/Fasco	
47	Lock, Sngl. Point w/ Trimplate		Roto/Fasco	
48	Keeper, Sngl Point, 1/2"		Roto/Fasco	
49	Shim, Sngl Point Keeper		Roto/Fasco	
50	Roller, Tandem, Face Adj.		Roto/Fasco	
51	Wstp., 0.250 x 0.187 back, Fin, Soft			
57	Wstp., 0.150 x 0.187 back, Fin, Soft			
61	Gasket, Frame, Left & Right		Frank Lowe	
62	#8 x 0.625, PhFh, TEK			
63	#10 x 2.250, PhPh, SMS			
63	#10 x 1.500, PhPh, TEK			
64	#8 x 0.625, PhFh, TEK			
65	#10 x 1.000, Hex WashHd, TEK			
66	#10 x 2.500, Hex WashHd, TEK			
67	#8 x 2.250, Ph TrHd, SMS			
68	Cap Plug, 1/2" Hole		Sunco	
69	Dow Corning, 791		Dow	
70	Dow Corning, 791		Dow	
71	Set Blk., 85 Dur., 1/8" x 1" x2" Lg.		PTI	
75	1" IG (5 mm T.- 3/8" Air Spaceec - 7/16" Lami. A. {5 mm A.- 0.105 PVB - 5 mm A.})			
75	1" IG (3 mm T.- 5/16" Air Spaceec - 5/16" Lami. A. {3 mm A.- 0.090 PVB - 3 mm A.})			
76	1" IG (5 mm T.- 3/8" Air Spaceec - 7/16" Lami. A. {5 mm A.- 0.105 PVB - 5 mm A.})			
76	1" IG (3 mm T.- 5/16" Air Spaceec - 5/16" Lami. A. {3 mm A.- 0.090 PVB - 3 mm A.})			
84	Screen			
86	Sill Riser	Alum.	Keymark	



FRAME ASSEMBLY
MECHANICALLY
FASTENED ALL
FOUR CORNERS



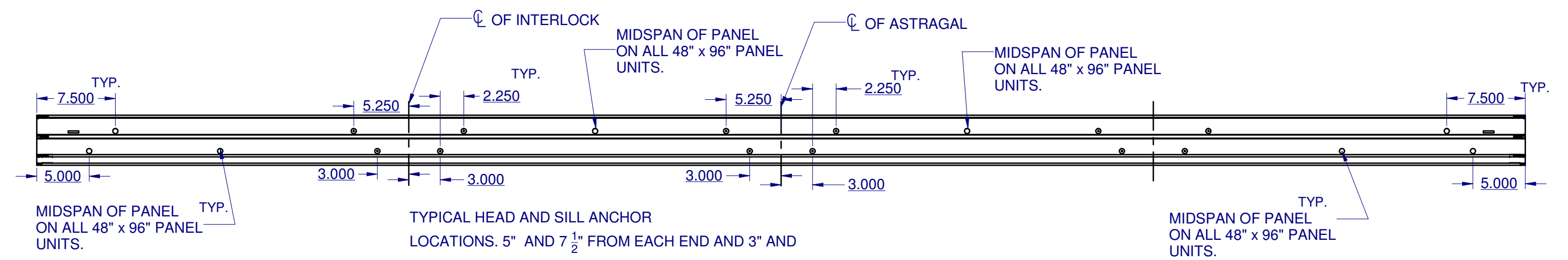
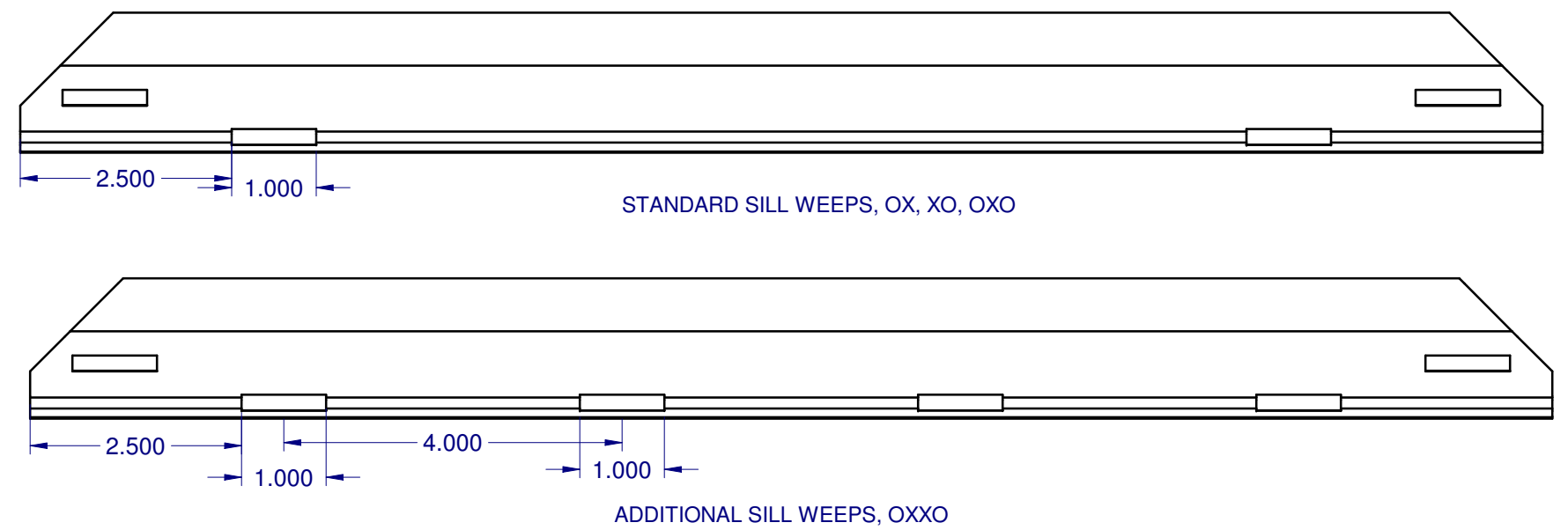
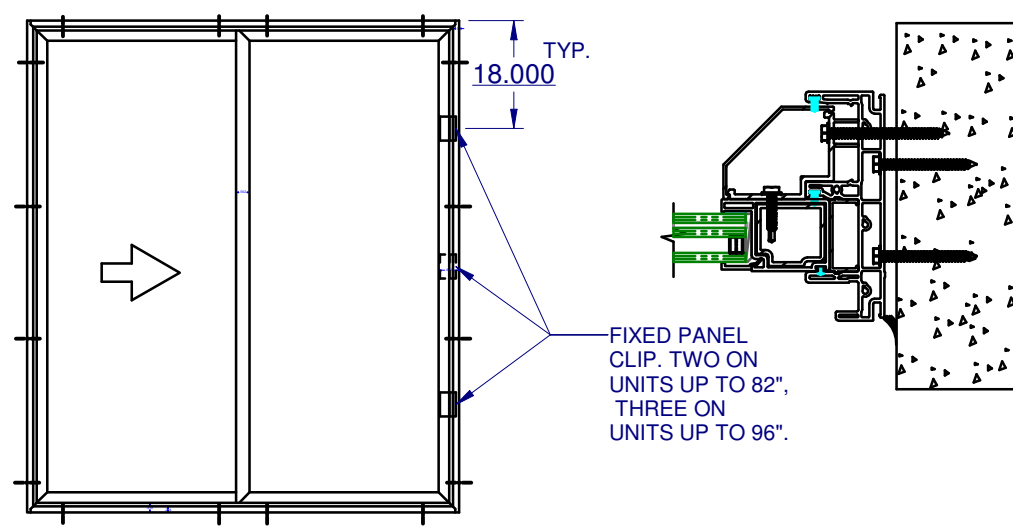
LUCAS A. TURNER, FL P.E. 58201

PROFESSIONAL ENGINEER
LICENSE
No. 58201
10/1/2020
Lucas A. Turner, FLPE #58201
Turner Eng. & Cons., Inc.
FBPE COA #29779
2428 Old Natchez Trc. Trl.
Camden, TN 38320
Ph. 941-380-1574

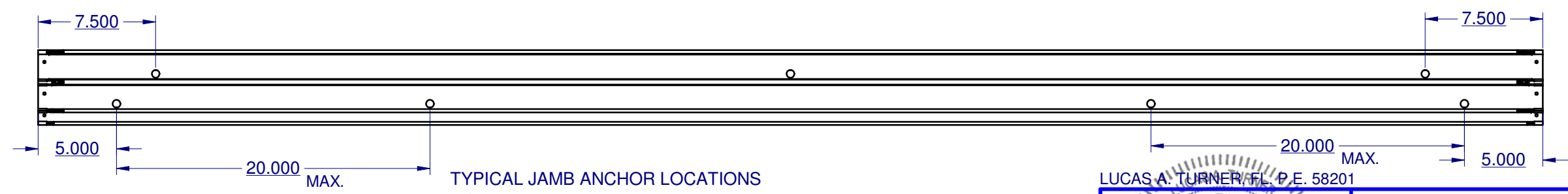
LAWSON
INDUSTRIES, INC.

8501 N. W. 90th Street
Medley, FL 33166

TITLE: EXTRUSIONS AND B.O.M.		
SERIES: SGD-550	DRAWN BY: MCL	DATE: 01/27/2020
MODEL:	SCALE: N.T.S.	DWG. NO. L-550-2001
	REV. LETTER:	SHEET SHT 6 of 9



TYPICAL HEAD AND SILL ANCHOR LOCATIONS. 5" AND 7 1/2" FROM EACH END AND 3" AND 5 1/4" ON EITHER SIDE OF CENTER OF ASTRAGAL AND INTERLOCKS. ONE ANCHOR LOCATED AT MIDSPAN OF PANEL, IN PANEL TRACK.



TYPICAL JAMB ANCHOR LOCATIONS 7 1/2" IN ONE TRACK AND ONE AT 5" IN OTHER TRACK, FROM EACH END AND 20" O.C. THEREAFTER, STAGGERED.

LUCAS A. TURNER, FL P.E. 58201

Professional Engineer Seal for Lucas A. Turner, FL P.E. 58201, dated 10/1/2020. License No. 58201. State of Florida. Turner Eng. & Cons., Inc. FBPE COA #29779. 2428 Old Natchez Trc. Trl. Camden, TN 38320. Ph. 941-380-1574.



8501 N. W. 90th Street
Medley, FL 33166

TITLE: ANCHOR LOCATIONS		
SERIES: SGD-550	DRAWN BY: MCL	DATE: 01/27/2020
MODEL:	SCALE: N.T.S.	DWG. NO. L-550-2001
	REV. LETTER:	SHEET SHT 7 of 9

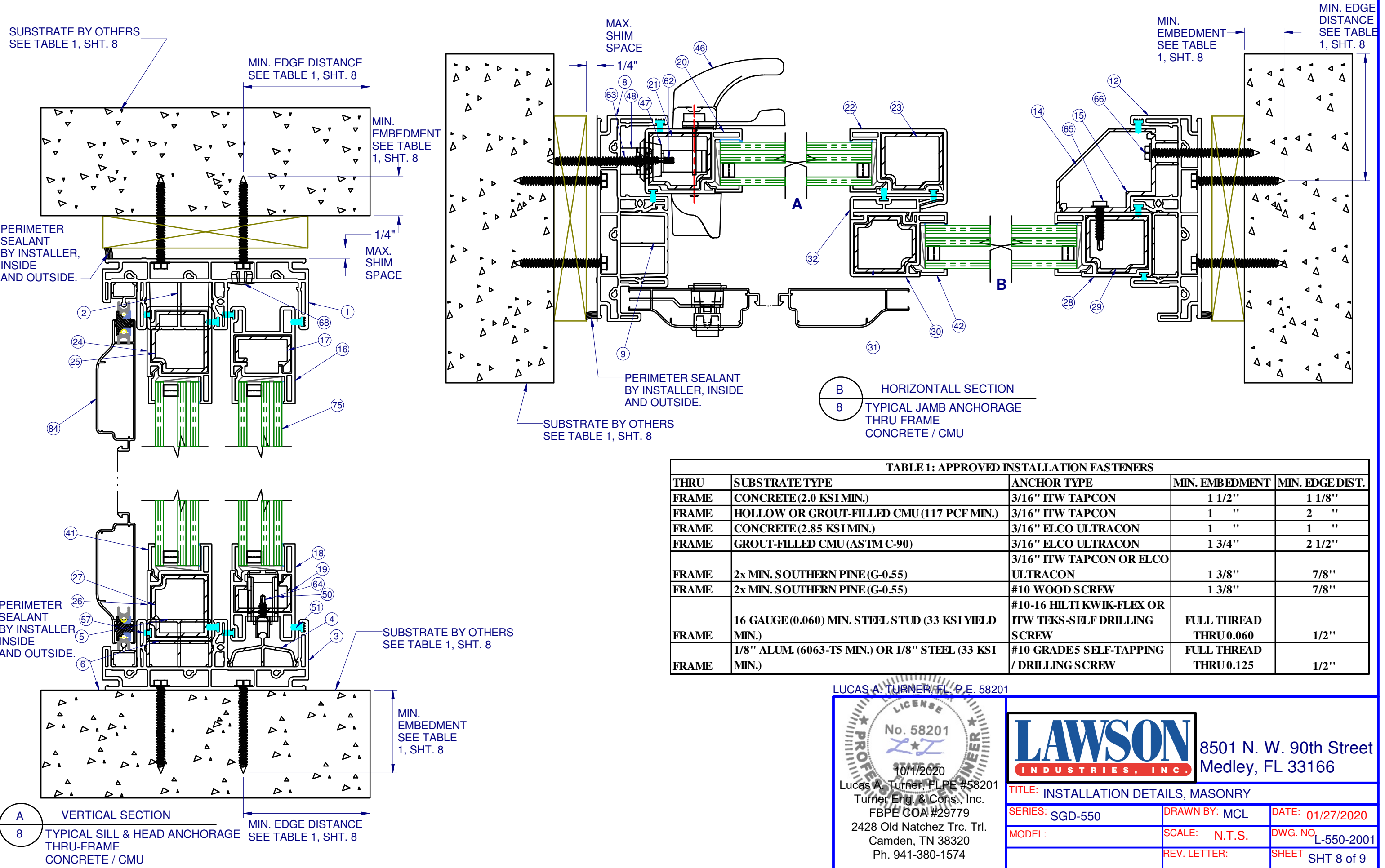


TABLE 1: APPROVED INSTALLATION FASTENERS				
THRU	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
FRAME	CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1 1/2"	1 1/8"
FRAME	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1 "	2 "
FRAME	CONCRETE (2.85 KSI MIN.)	3/16" ELCO ULTRACON	1 "	1 "
FRAME	GROUT-FILLED CMU (ASTM C-90)	3/16" ELCO ULTRACON	1 3/4"	2 1/2"
FRAME	2x MIN. SOUTHERN PINE (G-0.55)	3/16" ITW TAPCON OR ELCO ULTRACON	1 3/8"	7/8"
FRAME	2x MIN. SOUTHERN PINE (G-0.55)	#10 WOOD SCREW	1 3/8"	7/8"
FRAME	16 GAUGE (0.060) MIN. STEEL STUD (33 KSI YIELD MIN.)	#10-16 HILTI KWIK-FLEX OR ITW TEKS-SELF DRILLING SCREW	FULL THREAD THRU 0.060	1/2"
FRAME	1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	#10 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL THREAD THRU 0.125	1/2"

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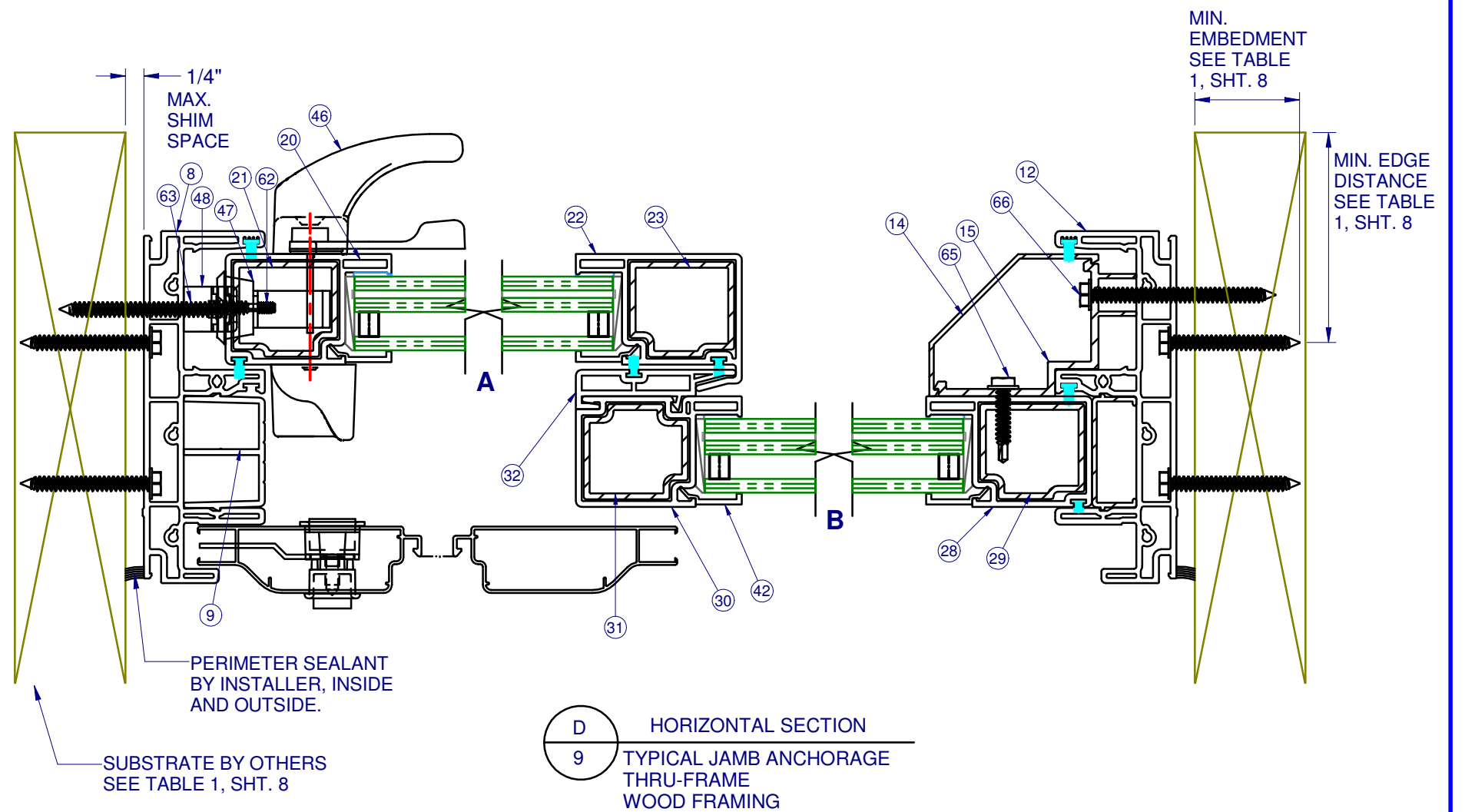
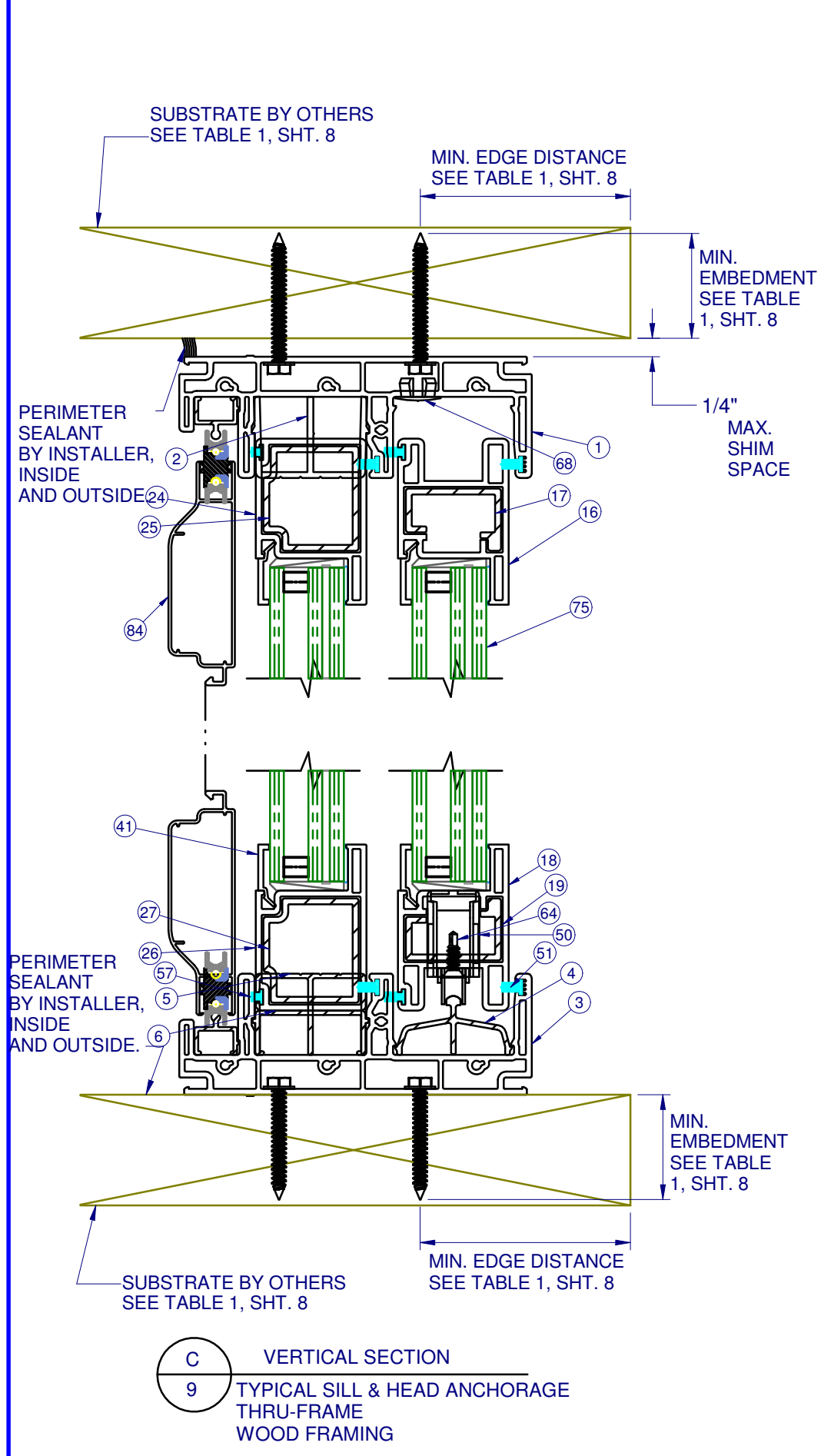
PROFESSIONAL ENGINEER
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10/1/2020
Lucas A. Turner, FL P.E. #58201
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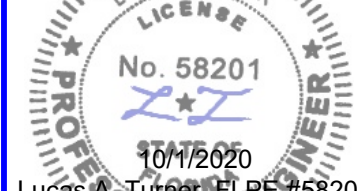
8501 N. W. 90th Street
Medley, FL 33166

TITLE: INSTALLATION DETAILS, MASONRY

SERIES: SGD-550	DRAWN BY: MCL	DATE: 01/27/2020
MODEL:	SCALE: N.T.S.	DWG. NO. L-550-2001
	REV. LETTER:	SHEET SHT 8 of 9



LUCAS A. TURNER, FL P.E. 58201


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 INDUSTRIES, INC.

8501 N. W. 90th Street
Medley, FL 33166

TITLE: INSTALLATION DETAILS, WOOD

SERIES: SGD-550	DRAWN BY: MCL	DATE: 01/27/2020
MODEL:	SCALE: N.T.S.	DWG. NO. L-550-2001
	REV. LETTER:	SHEET SHT 9 of 9