

| ABBREVIATIONS | | | | | |
|---------------------------|---------------------------|-----------------------|-----------------------------|----------------------|---------------------------------|
| AB or A.B. | Anchor Bolt | FIX or FXD | Fixed | PWDR or Pwd. | Powder Room |
| ABV or Av. | Above | FLR or Flr. | Floor | RA or RA or R.A. | Return Air |
| AC or A/C | Air-Conditioner | FLR-SYS or Flr Sys | Floor System | RAD or Rad. | Radius |
| ADJ or ADJ. | Adjustable | FOM or F.O.M. | Face Of Masonry | RAG or Rag. | Return Air Grill |
| AFF or A.F.F. | Above Finished Floor | FP or F.P. | Fireplace | REC or Rec. | Recessed |
| AHU or A.H.U. | Air Handler Unit | FR OR | French Door | RECEP or | Receptacle |
| ALT or ALT. | Alternate | FRT | Front | REF or Ref. | Refrigerator |
| BC | Base Cabinet | FT or Fl. | Foot Feet | REINF | Reinforcing |
| BF | Bifold Door | FTG or Ftg. | Footing | REQD or Req'd. | Required |
| BK SH or Bk Sh | Bookshelf | FXD GL | Fixed Glass | RM or Rm. | Room |
| BLK or BLK. | Block | GALV or Galv. | Galvanized | RND or Rnd. | Round |
| BLW or BLW. | Below | GC or G.C. | General Contractor | RO or R.O. | Rough Opening |
| BM or Bm. | Beam | GFI or G.F.I. | Ground Fault Interrupter | RS, RS, R/S or R&S | Rod and Shelf |
| BOT or Bot. | Bottom | GT or G.T. | Girder Truss | SD or SD. | Smoke Detector |
| BP or B.P. | Bypass (door) | GYP BD or Gyp. Bd | Gypsum Board | SGD | Sliding Glass Door |
| BRG or BRG. | Bearing | HB | Hose Bibb | SH or Sh. | Shelves |
| C | Carpet | HDR or Hdr. | Header | SHT | Sheet |
| CAB | Cabinet | HGT or Hgt. | Height | SHWR or Shwr. | Shower |
| CIR or Cir. | Circle | Hh or H.H. | Hand Held (plumbing faucet) | SL or S.L. | Side Lights |
| CJ or CJ. | Control Joint | HORIZ | Horizontal | SPECS or SPECS. | Specifications |
| CLG or Clg. | Ceiling | HS | Hard Surface (flooring) | SPF or S.P.F. | Spruce Pine Fir |
| CMU | Concrete Masonry Unit | ILO | In Lieu Of | SQ FT or SF or S.F. | Square Foot (feet) |
| COFF or Coff. | Coffered or Tray Ceiling | INSUL or Insul. | Insulation | SQ or Sq. | Square |
| COL or Col. | Column | INT or Int. | Interior | STO | Storage |
| COMM or Comm. | Community | K/WALL or K/Wall | Kneewall | SW or S.W. | Shear Wall |
| COMP or Comp. | Compressor | KS or K.S. | Knee Space | SYP or S.Y.P. | Southern Yellow Pine |
| CONN or CONN. | Connection | LAM or Lam. | Laundry | TB | Towel Bar |
| CONT or Cont. | Continuous | LAV or Lav. | Lavatory | TEMP or Temp. | Tempered |
| CT or C.T. | Ceramic Tile | LF or L.F. | Linear Ft | THKN or Thk'n. | Thicken |
| D or D. | Dryer | LL | Lintel Length | TOB or T.O.B. | Top of Block |
| DBL or dbl. | Door Bell | LT | Laundry Tub | TOM or T.O.M. | Top of Masonry |
| DEC or Dec. | Decorative | MAS or Mas. | Masonry | TOP or T.O.P. | Top of Plate |
| DED or Ded. | Dedicated (outlet) | MAX or Max. | Maximum | TP | Toilet Paper Holder |
| DIA or Dia. | Diameter | MC | Medicine Cabinet | TR | Towel Ring |
| DISP or Disp. | Disposal | MFR or Mfr. | Manufacturer | TRANS WDW or Trans. | Transom Window |
| DIST or Dist. | Distance | MGT | Management (room) | Typ or Typ. | Typical |
| DMF | Decorative Masonry Finish | MIN or Min. | Minimum | UC or u.c. | Under Counter |
| DS or D.S. | Drawer Stack | MIR or Mir. | Mirror | UCL | Under Cabinet Lighting |
| DTL | Detail | ML or M.L. | Microfilm | UNO or U.N.O. | Unless Noted Otherwise |
| DV or D.V. | Dryer Vent | MONO or Mono | Monolithic | V or v. | Valve (shower or tub/shower) |
| DV or D.W. | Diverter Valve (plumbing) | MW or MICRO or Micro. | Microwave | VB | Vanity Base |
| DV or D.W. | Dishwasher | NTS or N.T.S. | Not to Scale | VERT or Vert. | Vertical |
| EA or Ea. | Each | OE or O.E. | Owner's Entry | VL or V.L. | Versamal |
| ELEC or Elec. | Electrical | OPNG or Opn'g. | Opening | VTR or VTE | Vent through Roof / Exterior |
| ELEV or Elev. | Elevation | OPT or Opt. | Optional | W or w | Washer |
| EQ | Equal | PC | Pull Chain | W/ or w/ | With |
| EV or E.W. | Each Way | PED or Ped. | Pedestal | WA or W.A. | Wedge Anchor |
| EXP or Exp. | Expansion | PH | Phone | WC or W/C or W.C. | Water Closet (toilet) |
| EXT or Ext. | Exterior | PKT or Pkt. | Pocket (Door) | WD or Wd | Wood |
| FBC | Florida Building Code | PL or P.L. | Parallel | WDW HDR or WDW. HDR. | Window Header |
| FDN or Fdn. | Foundation | PLF | Pounds per linear foot | WH or W.H. | Water Heater |
| FG | Fiberglass (Shower Pan) | PLNT SHLF or Plt. Sh. | Plant Shelf | WIC or W.I.C. | Walk-in Closet |
| FIN | Finished | PLT HT or Plt. Ht. | Plate Height | WM or W.M. | Wall Mounted (plumbing fixture) |
| FIN FLR or FF or Fin. Fr. | Finished Floor | PSF | Pounds per square foot | WP | Water Proofing |
| | | PT or P.T. | Pressure Treated | WS | Water Softener |
| | | PW or P.W. | Pre-wire | WWF | Welded Wire Fabric (Mesh) |

PLAN REVISIONS

| DATE | VERSION | DESCRIPTION |
|----------|---------|---------------------------------------|
| 08-20-15 | 1.0 | NEW BASE PLAN |
| 12-8-15 | 2.0 | ADDED VAULT. CLG. |
| 12-28-17 | 3.0 | 2017 FBC UPDATES |
| 02-21-18 | 4.0 | ADDED GRADE BEAM 150 MPH ENG. |
| 08-27-19 | 4.1 | ENG. REVIEW FOR 150-C MPH |
| 09-20-19 | 4.2 | ADD 8'-8" ELEV. FOR TREVESTA |
| 12-12-19 | 4.3 | ELEV. B EXTEND ENTRY SLAB |
| 12-15-20 | 4.4 | OVERHANG OVER SGD REV. TO 3' PER C.M. |
| 12-19-20 | 5.0 | FBC 2020 CODE UPDATE |
| 06-14-21 | 5.1 | HVAC DOOR TO 2652 PER C.M. |



LENNAR

1941

INDEX OF DRAWINGS

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|-----------|------------------------------------|
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| CS | COVER SHEET |
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| 2 | INTERIOR ELEVATIONS |
| 3.1 | EXTERIOR ELEVATIONS |
| 3.2 | EXTERIOR ELEVATIONS |
| F1 | FOAM DETAILS |
| 4 | ELECTRICAL PLAN |
| 5 | ROOF PLAN |
| 6 | FOUNDATION PLAN MONO |
| 7 | ROOF FRAMING PLAN |
| 8 | LINTEL PLAN AND DETAILS |
| SN | STRUCTURAL NOTES |
| SN1 | DETAILS |
| S3 | DETAILS |
| S4 | DETAILS |
| S5 | DETAILS |
| SS | RETROFIT DETAILS |
| D1 | SECTIONS & DETAILS |
| WP | WATERPROOFING DETAILS |
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| PA1.1 | PRODUCT APPROVAL NUMBERS |
| PA1.2 | PRODUCT APPROVAL NUMBERS |
| SH1.0 | HURRICANE SHUTTER PRODUCT APPROVAL |
| SH1.1 | HURRICANE SHUTTER PRODUCT APPROVAL |
| SH1.2 | HURRICANE SHUTTER PRODUCT APPROVAL |
| SH1.3 | HURRICANE SHUTTER PRODUCT APPROVAL |
| SH1.4 | HURRICANE SHUTTER PRODUCT APPROVAL |
| SH1.5 | HURRICANE SHUTTER PRODUCT APPROVAL |

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2020 Florida Building Code - International Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.



CODE REFERENCES ARE SUMMARIES
OF CODE SECTIONS.
SEE FBCR (CURRENT VERSION) FOR
COMPLETE CODE INFORMATION.

Notice to Builder & All Subcontractors
It is the intent of Designer/Engineer listed in the titleblock of these documents that these documents be accurate, providing Licensed Professionals clear information. Every attempt has been made to prevent error. The Builder and all subcontractors are required to review all the information contained in these documents, prior to the commencement of any work. The Designer/Engineer are not responsible for any plan errors, omissions or misinterpretations undetected and not reported to the Designer / Engineer prior to construction. All construction MUST be in accordance to the information found in these documents. Any questions regarding the information found in these plans should be directed to our Office at (813) 823-2333 immediately. No back charges will be considered for reimbursement by the Designer/Engineer without advanced notification and approval by the Designer/Engineer. Payments will be made in accordance to the terms of the agreement.

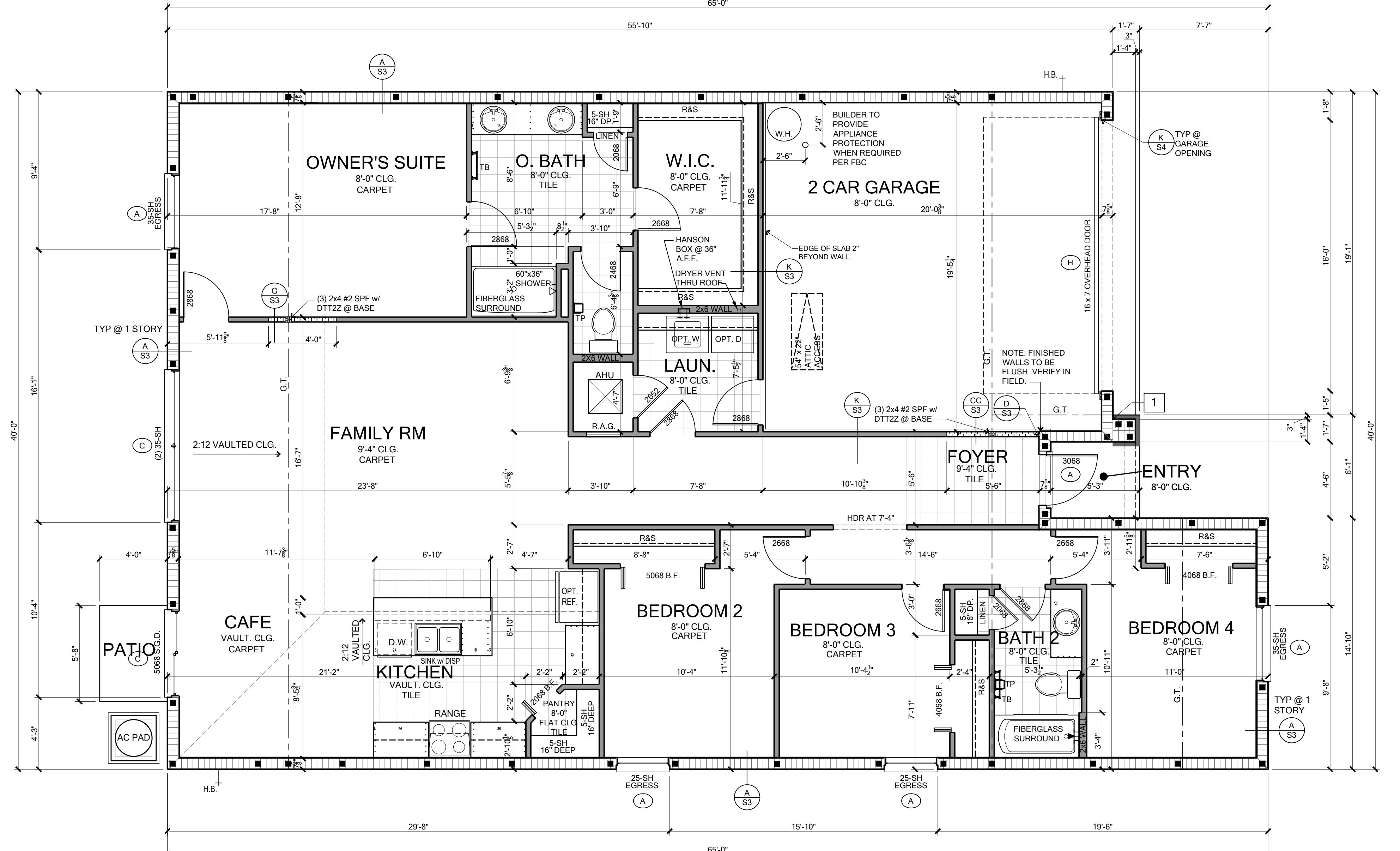
Control of Construction Site
The Designer/Architect and/or of record (EOR) have no control over the construction site and shall not be responsible in any manner for control of the construction site including, but not limited to, scheduling and sequencing of work, jobsite safety, and ventilation of the building and thereby shall not be responsible for the indoor air quality, or the effects thereof, for any reason whatsoever. The Designer/Architect and EOR has no duty to protect, without limitation, the residence, construction site, materials, or equipment from moisture, mold, fungus, fire, theft, vandalism, trespass, or any other peril or condition, at any time, expressly including, but not limited to, the period of time before construction, during the construction of the project, or after construction and the Designer/Architect and EOR has no duty to take any action or preventive measures to protect such property against any such peril at any time for any reason.

Care and Maintenance
Yearly maintenance and inspections by the builder/homeowner are necessary for the future life of this home. Care must be taken to check windows and doors for caulking, remove leaves and debris off roofs, make sure that water flow is away from the house and have your home re-caulked every 3-5 years to protect the coating. The designer and engineer of record are not responsible for the upkeep of the home and will not be held liable for instances that may occur over the normal life of the home without proper maintenance.

JOB NO : 21-13152
SCALE : AS NOTED
SHEET NO. CS

1941 (TPA)
Community: CopperSpring 55
Block: 03
Lot: 01
Address: 7143 Emerald Spring Loop
Date: 9/13/2021
Garage: RH
Lennar No. 15289 76 0301
Lennar Date: 9/13/2021

FOR BUILDING DEPT.
USE ONLY
09/13/2021



| HEADER SCHEDULE | | |
|-----------------|---------------------------------------|--|
| MARK | HEADER SIZE | REMARKS |
| H1 | (2) 2X6 #2 SYP W/ 1/2" FLITCH PLATE | |
| H2 | (2) 2X8 #2 SYP W/ 1/2" FLITCH PLATE | |
| H3 | (2) 2X10 #2 SYP W/ 1/2" FLITCH PLATE | |
| H4 | (2) 2X12 #2 SYP W/ 1/2" FLITCH PLATE | |
| H5 | (2) 1 3/4" X 11 1/4" LVL 2.0E Fb=2950 | |
| H6 | (2) 1 3/4" X 9 1/4" LVL 2.0E Fb=2950 | |
| H7 | (2) 1 3/4" X 7 1/4" LVL 2.0E Fb=2950 | |
| H8 | (2) 2X4 #2 SYP W/ 1/2" FLITCH PLATE | |
| RAG | (2) 2X4 #2 SYP W/ 1/2" FLITCH PLATE | Follow Q/S4. See Plan for Bearing Wall Call Out When Straps are Required |

* VERIFY W/ PLAN CORRECT LENGTH OF HEADER REQUIRED
** SEE PLAN FOR DETAIL CALL OUT FOR CONNECTIONS AND REQUIRED STUDS

| | | |
|--|--|--|
| General Notes | | |
| R302.5 Dwelling/Garage Opening/Penetration Protection | | |
| Openings and penetrations through walls or ceilings separating the dwelling from the garage shall be in accordance with sections R302.5.1 through R302.5.3. | | |
| R302.5.1 Opening Protection | | |
| Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 1-3/8" in thickness, solid or honeycomb-core steel doors not less than 1-3/8" thick, or 20-minute fire-rated doors. | | |
| R302.5.2 Duct Penetration | | |
| Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel, 1 inch minimum rigid nonmetallic class 0 or class 1 duct board, or other approved material and shall not have openings into the garage. | | |
| R302.5.3 Other Penetrations | | |
| Penetrations through the separation required in Section R302.6 shall be protected as required by section R302.11, Item 4. | | |
| R302.6 Dwelling/Garage Fire Separation | | |
| The garage shall be separated as required by Table R302.6. | | |
| Openings in garage walls shall comply with Section R302.5. | | |
| Attachment of gypsum board shall comply with Table R702.3.5. | | |
| The wall separation provisions of Table R302.6 shall not apply to garage walls that are perpendicular to the adjacent dwelling unit walls. | | |
| From the Residence 8 Attics - Not Less than 1/2" Gyp. Bd. or equivalent applied to garage sides. | | |
| From Habitable Rooms Above Garage - Not Less than 5/8" Type-X Gyp. Bd. or equivalent. | | |
| Structure(s) Supporting Floor/Ceiling Assemblies - Not Less than 1/2" Gyp. Bd. or equivalent. | | |
| Garages Located Less than 3 Feet From Dwelling On The Same Lot - Not Less than 1/2" Gyp. Bd. or equivalent applied to the interior side of exterior walls that are within this area. | | |

| WINDOW SCHEDULE | | | |
|-----------------|-------------------|------------------|------|
| SIZE | R.O. CMU (Flange) | R.O. FRAME (Fin) | TYPE |
| 12 | 20 X 26 | 18 1/2 X 25 1/2 | S.H. |
| 13 | 20 X 38 1/2 | 18 1/2 X 37 1/2 | S.H. |
| 14 | 20 X 50 1/2 | 18 1/2 X 50 | S.H. |
| 15 | 20 X 63 | 18 1/2 X 62 1/2 | S.H. |
| 16 | 20 X 72 | 18 1/2 X 71 1/2 | S.H. |
| 1H2 | 27 1/4 X 26 | 26 X 25 1/2 | S.H. |
| 1H3 | 27 1/4 X 38 1/2 | 26 X 37 1/2 | S.H. |
| 1H4 | 27 1/4 X 50 1/2 | 26 X 50 | S.H. |
| 1H5 | 27 1/4 X 63 | 26 X 62 1/2 | S.H. |
| 1H6 | 27 1/4 X 72 | 26 X 71 1/2 | S.H. |
| 22 | 37 1/2 X 26 | 36 1/2 X 25 1/2 | S.H. |
| 23 | 37 1/2 X 38 1/2 | 36 1/2 X 37 3/4 | S.H. |
| 24 | 37 1/2 X 50 1/2 | 36 1/2 X 50 | S.H. |
| 25 | 37 1/2 X 63 | 36 1/2 X 62 1/2 | S.H. |
| 26 | 37 1/2 X 72 | 36 1/2 X 71 1/2 | S.H. |
| DOUBLE 2 WIDE | 75" TALL | 73 1/2" WIDE | S.H. |
| 32 | 54 X 26 | 52 1/2 X 25 1/2 | S.H. |
| 33 | 54 X 38 1/2 | 52 1/2 X 37 1/2 | S.H. |
| 34 | 54 X 50 1/2 | 52 1/2 X 50 | S.H. |
| 35 | 54 X 63 | 52 1/2 X 62 1/2 | S.H. |
| 36 | 54 X 72 | 52 1/2 X 71 1/2 | S.H. |
| 39X59 | 40 X 59 | N/A | S.H. |
| DOUBLE 39X59 | 79 X 59 | N/A | S.H. |

1 TIE WALLS TOGETHER BY ROTATING BLOCKS EVERY OTHER COURSE

312.2.1 Window Sills

In dwelling units, where the top of the sill of an operable window is located less than 24 inches (610 mm) above the finished grade and greater than 72 inches (1829 mm) above the finished grade or other surface below on the exterior of the building, the operable window shall comply with one of the following: 1. Operable windows with openings that will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening where the opening is in its largest opened position. 2. Operable windows that are provided with window fall prevention devices that comply with ASTM F2090. 3. Operable windows that are provided with window opening control devices that comply with Section R312.2.

Chapter 45 Private Swimming Pools

Outdoor swimming pools shall be provided with a barrier complying with R4501.17.1 through R4501.17.14.

M1507.2 Re-circulation of Air

Exhaust air from Bathrooms and toilet rooms shall not be re-circulated within a residence or to another dwelling unit and shall be exhausted directly to the outdoors. Exhaust air from bathrooms and toilet rooms shall not discharge into an attic, crawl space or other areas inside the building.

GAS APPLIANCES

G.C. to verify location of gas riser before commencement of work. Where gas water heaters are installed, Water heaters shall be installed a min. of 18" above flr, per FBCR G2408.2. Except where appliances that are listed as flammable vapor ignition resistant.

| OPENING PRESSURES | |
|-------------------------|---------------|
| ENCLOSED - EXPOSURE "C" | |
| (A) | +31.8 / -34.5 |
| (B) | +31.8 / -42.6 |
| (C) | +30.4 / -33.1 |
| (D) | +30.4 / -39.7 |
| (E) | +28.5 / -31.2 |
| (F) | +28.5 / -35.9 |
| (G) | SEE SN SHT. |
| (H) | SEE SN SHT. |

145 MPH

NOTE: WIND SPEED INDICATED ABOVE IS AN "ULTIMATE" WIND SPEED. THE WIND PRESSURES LISTED ABOVE ARE ALLOWABLE PRESSURES

SOFFIT DESIGN PRESSURE +31.8 / -42.6

| WALL LEGEND | |
|-----------------------------|--|
| MASONRY HGT. @ 8'-0" A.F.F. | |
| TYP. 2X FRAME WALL | |
| BEARING WALL | |

INTERIOR BEARING WALLS NOTED "FLOOR BEARING ONLY" ARE FLOOR SYSTEM SUPPORTING ONLY AND REQUIRES NO UPLIFT CONNECTORS TO FLOOR SYSTEM

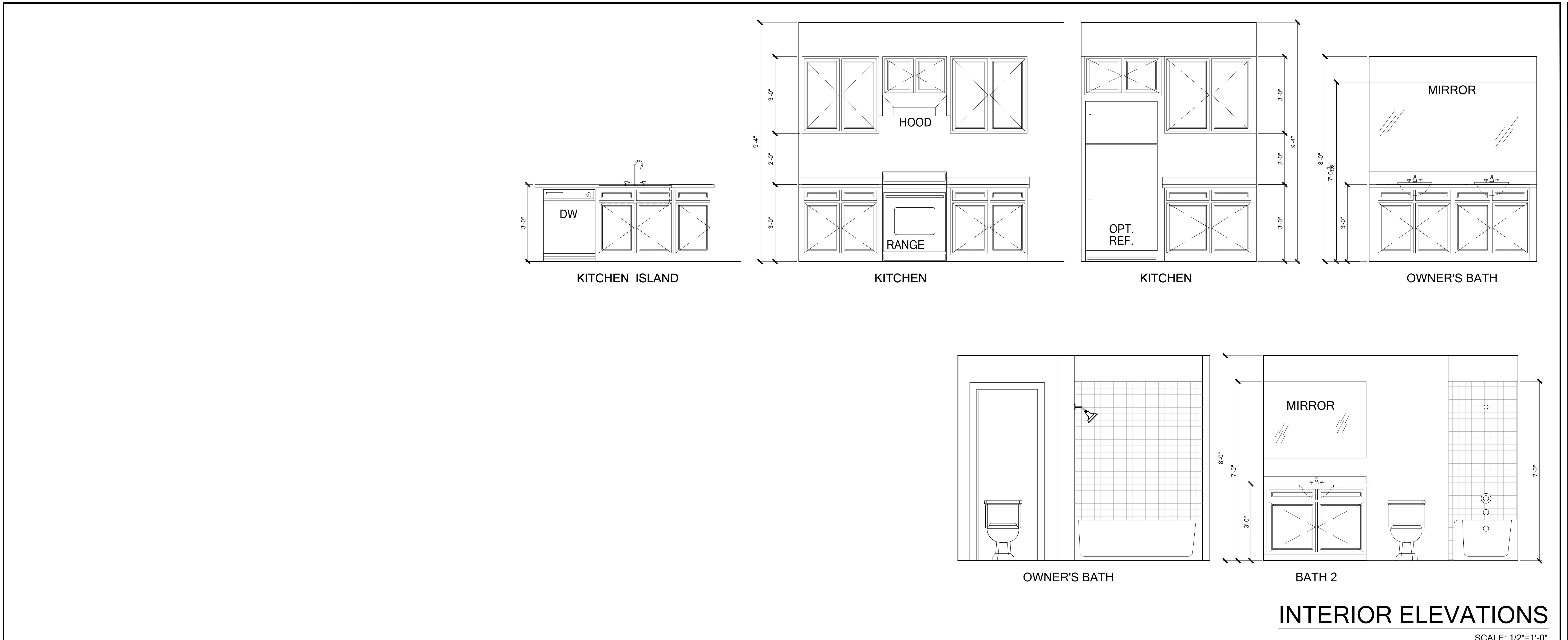
| AREA TABULATION "B1" (TRB) | |
|----------------------------|------|
| 1ST FLOOR LIVING AREA | 1936 |
| LIVING TOTAL | 1936 |
| GARAGE | 416 |
| FRONT ENTRY | 24 |
| TOTAL AREA | 2376 |

| INSULATION REQ. | |
|---------------------|--|
| LOCATION | R-VALUE / TYPE |
| EXT CONC WALL | R-4.1 HIGH PERM |
| EXT FRAME 2 x 4 | R-11/R-13 KRAFT FACED |
| EXT FRAME 2 x 6 | R-19 KRAFT FACED |
| CONDITIONED CEILING | R-30 BLOWN-IN (INSTALL BAFFLES AT EAVE) |
| GARAGE SEPARATION | R-11/R-13 KRAFT FACED |
| (GARAGE / LIVING) | |

LENNAR

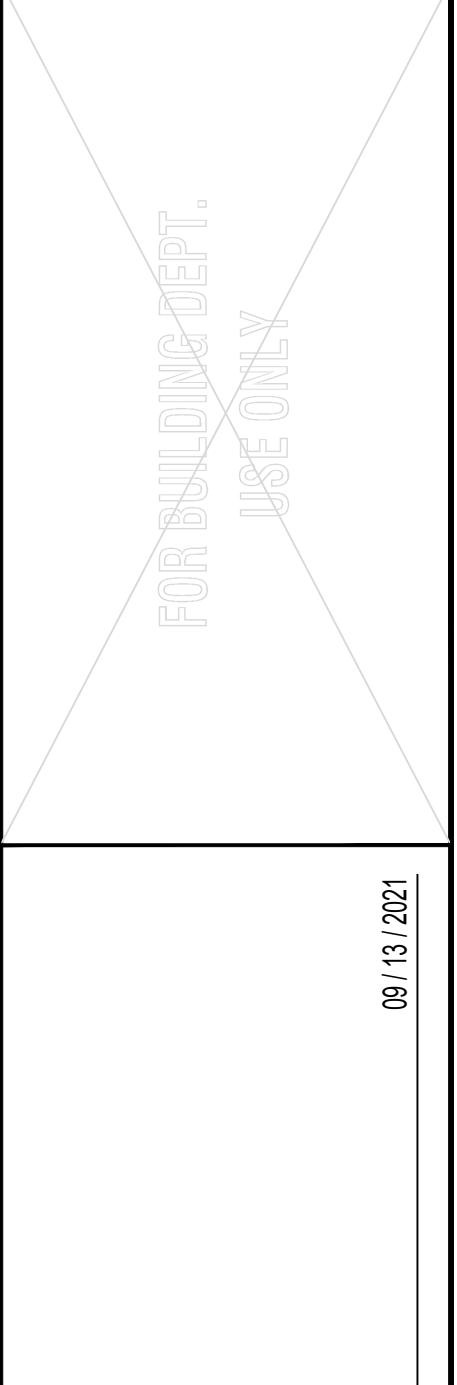
Block: 03
Lot: 01
Address: 7143 Emerald Spring Loop
Community: CopperSpring 55
Garage: RH
Date: 9/13/2021
Lennar No.: 15289 76 0301



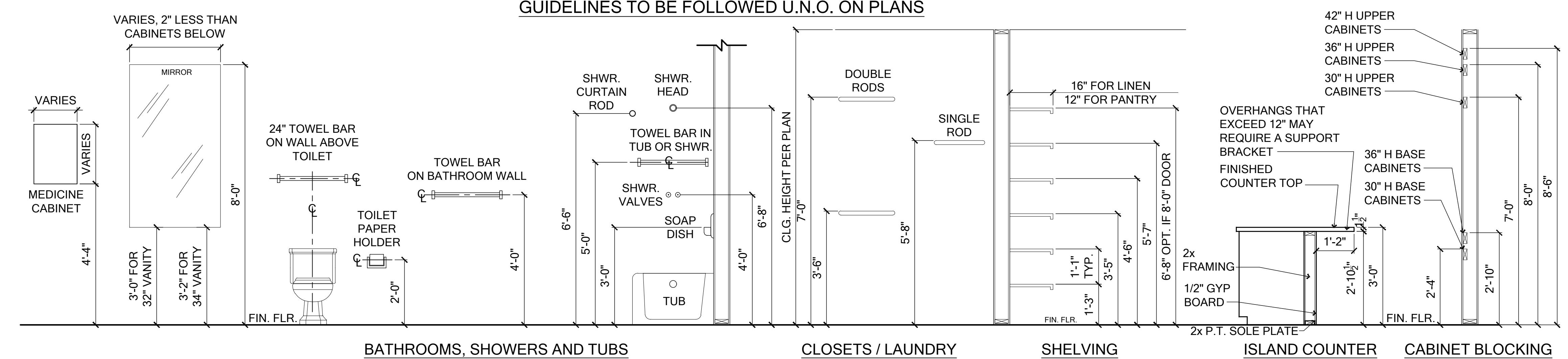
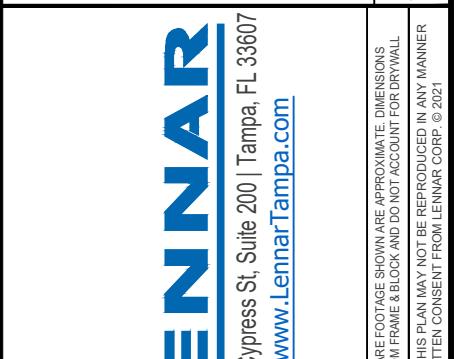
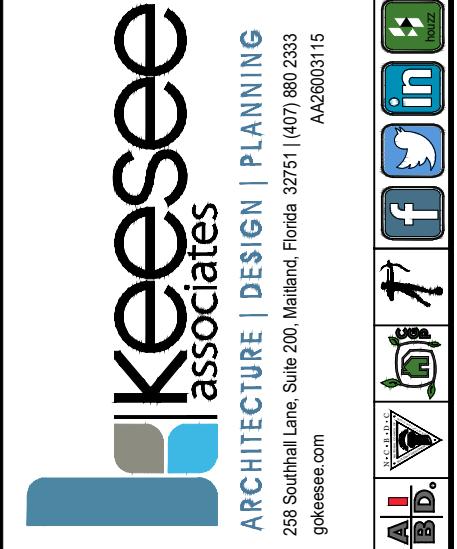


INTERIOR ELEVATIONS

SCALE: 1/2"-1'-0"



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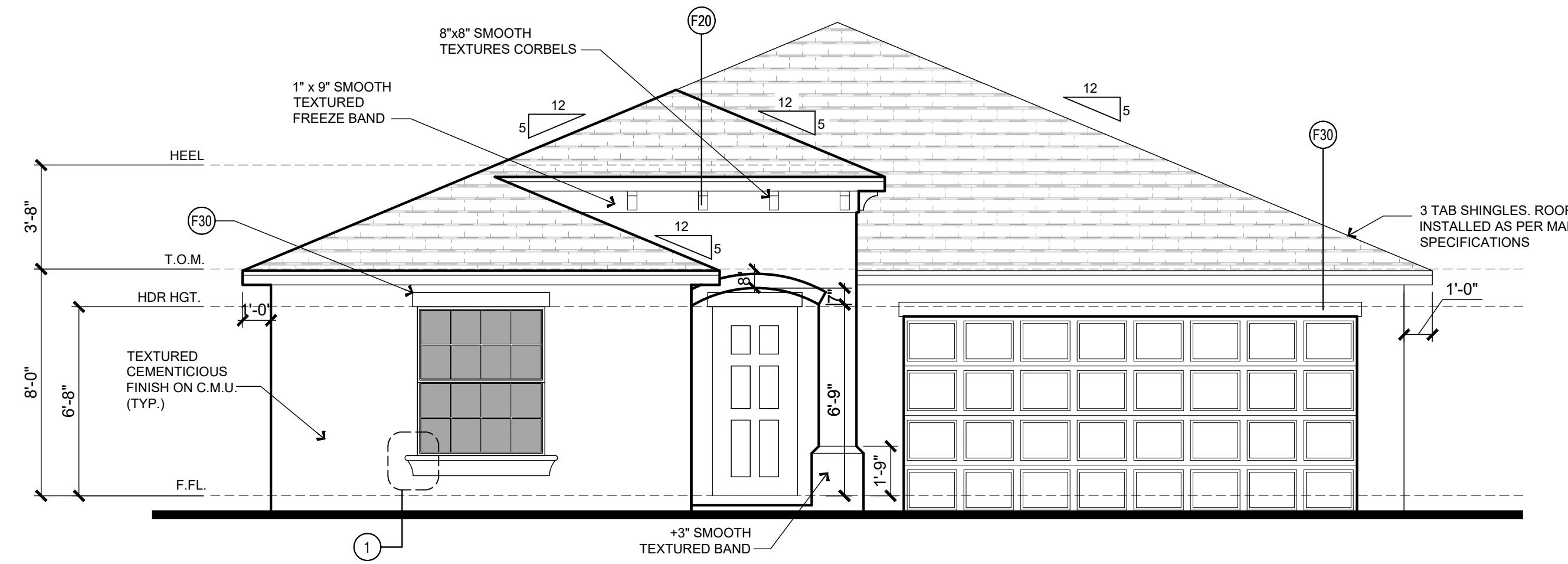


BLOCKING AND MOUNTING DETAILS

SCALE: 1/2"-1'-0"

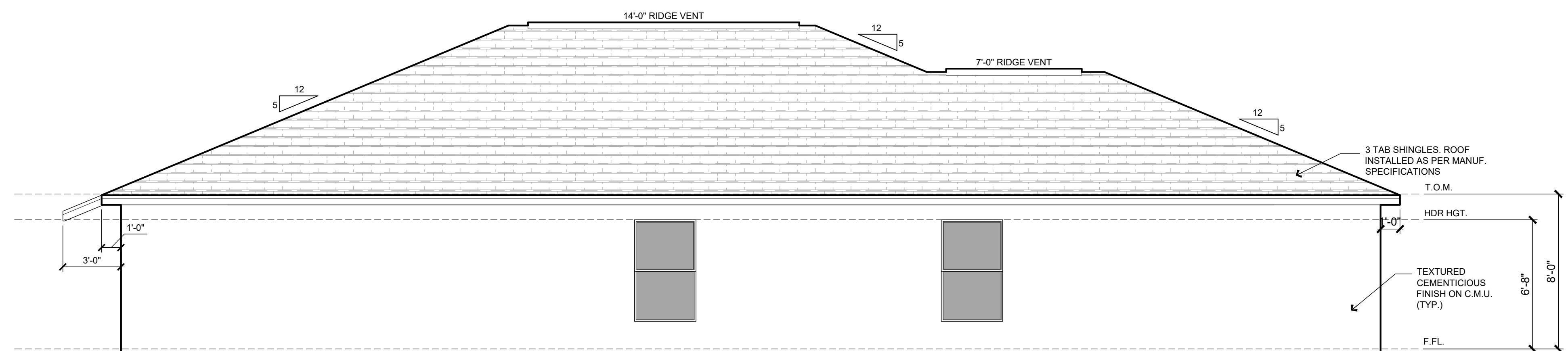
| | |
|----------------------------|-----------------------------------|
| Plan Name: 1941 (TPA) | Version: 5.1 |
| Community: CopperSpring 55 | Block: 03 |
| Lot: 01 | Address: 7143 Emerald Spring Loop |
| Garage: RH | Date: 9/13/2021 |
| Lennar No. 15289 76 0301 | |
| JOB NO : | 21-13152 |
| SCALE : | AS NOTED |
| SHEET NO. | 2 |

Saved By: MSEERAMIL Date: 9/13/2021 | Plot Date: 9/13/2021 | File Location: \\ka-server\Public\Projects_Contractors Files\Lennar Homes Tampa\2021 ATC Working\Copper Spring 55\21-13152 Lot 0301 Copper Spring 55 1941 B1 RH\21-13152 Lot 0301 Copper Spring 55 1941 B1 RH.dwg



FRONT ELEVATION - B1

CALE: 1/4"=1'-0"



LEFT ELEVATION - B1

SCALE: 1/4"=1'-0"

General Notes

- DOF CRITERIA:
12" OVERHANG U.N.O.
PLUMB CUT FASCIA ROOF
PITCH PER ELEVATION
G.C. VERIFY ROOF PITCH**
DOF PITCH VARIES PER SUBDIVISION
CONTRACTORS RESPONSIBILITY TO V

CONTRACTORS RESPONSIBILITY TO VERIFY
DOF SLOPE REQUIREMENTS WITH TRUSS
MANUFACTURER.

ELECTRICAL SPECIFICATION NOTES**
ELECTRICAL CONTRACTOR MUST VERIFY WITH
THE SPECIFICATIONS FOR THE TYPE OF FIXTURE
TO BE USED. LIGHT FIXTURES SHOWN ARE FOR
LOCATION PURPOSES.

Exterior Covering

- 03.7 Exterior Plaster.**
Installation of these materials shall be in compliance with ASTM D26 and ASTM C1063, or ASTM C1787 and the provisions of this code.

703.7.1 Lath.
Lath and Lath attachments shall be of corrosion-resistant materials. Expanded metal or woven wire lath shall be attached with 1-1/2" long, 11 gage nails having 7/16" head, or 1-1/2" long, 16 gage staples, spaced in accordance with ASTM C1063 or C1787, or as otherwise approved. (Refer to sheet SN1 for the engineered method for lath attachment.)

03.7.2 Plaster. Plastering with cement plaster shall be not less than three coats where applied over any type of code-approved lath and shall be not less than two coats where directly applied over masonry, concrete, clay brick, stone, or tile. If the plaster surface is completely covered by veneer or other facing material or is completely concealed, plaster application need be only two coats, provided total thickness is as set in Table R702.1(1). Cement plaster shall be in accordance with ASTM C926 and material shall be in accordance with one of the types listed in 03.7.2.

3.7.3 Water-Resistant Barriers.
Water-resistant barriers shall be installed as required in Section 03.2 and, where applied over wood-based sheathing, shall include a water-resistant vapor-permeable barrier with a performance at least equivalent to two layers of Grade D paper. The individual layers shall be installed independently such that each layer provides a separate continuous plane and any flashing installed in accordance with Section R703.4) intended to drain to the water-resistant barrier is directed between the layers.

703.2 Water-Resistive Barrier. The layer of No. 15 asphalt felt, free from holes and breaks, complying with ASTM D226 for Type 1 felt or other approved water-resistive barrier shall be applied over studs or sheathing of exterior walls. No. 15 asphalt felt shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches. Where joints occur, felt shall be lapped not less than 6 inches. Other approved materials shall be installed in accordance with the water-resistive barrier manufacturer's installation instructions. The No. 15 asphalt felt or other approved water-resistive barrier material shall be continuous to the top of walls and terminated at penetrations and building appendages in manner to meet the requirements of the exterior wall envelope described in Section R703.1.

03.4 Flashing.
Approved metal flashing, vinyl flashing, self-adhered membranes and mechanically attached flexible flashing shall be applied single-fashion or in accordance with the manufacturer's

structions. Metal flashing shall be corrosion resistant. Liquid-applied membranes used as flashing shall be applied in accordance with the manufacturer's instructions. All flashing shall be applied in a manner to prevent the entry of water into the wall cavity or penetration of water to the building structural framing components.

Components.

If-adhered membranes used as flashing shall comply with AAMA 711. All exterior fenestration products shall be sealed at the juncture with the building wall with a sealant complying with AAMA 800 or ASTM C920 Class 25 Grade NS or greater for copper joint expansion and contraction, ASTM C1281, AAMA 812, other approved standard as appropriate for the type of sealant. Liquid-applied membranes used as flashing in exterior walls shall comply with AAMA 714. The flashing shall extend to the surface

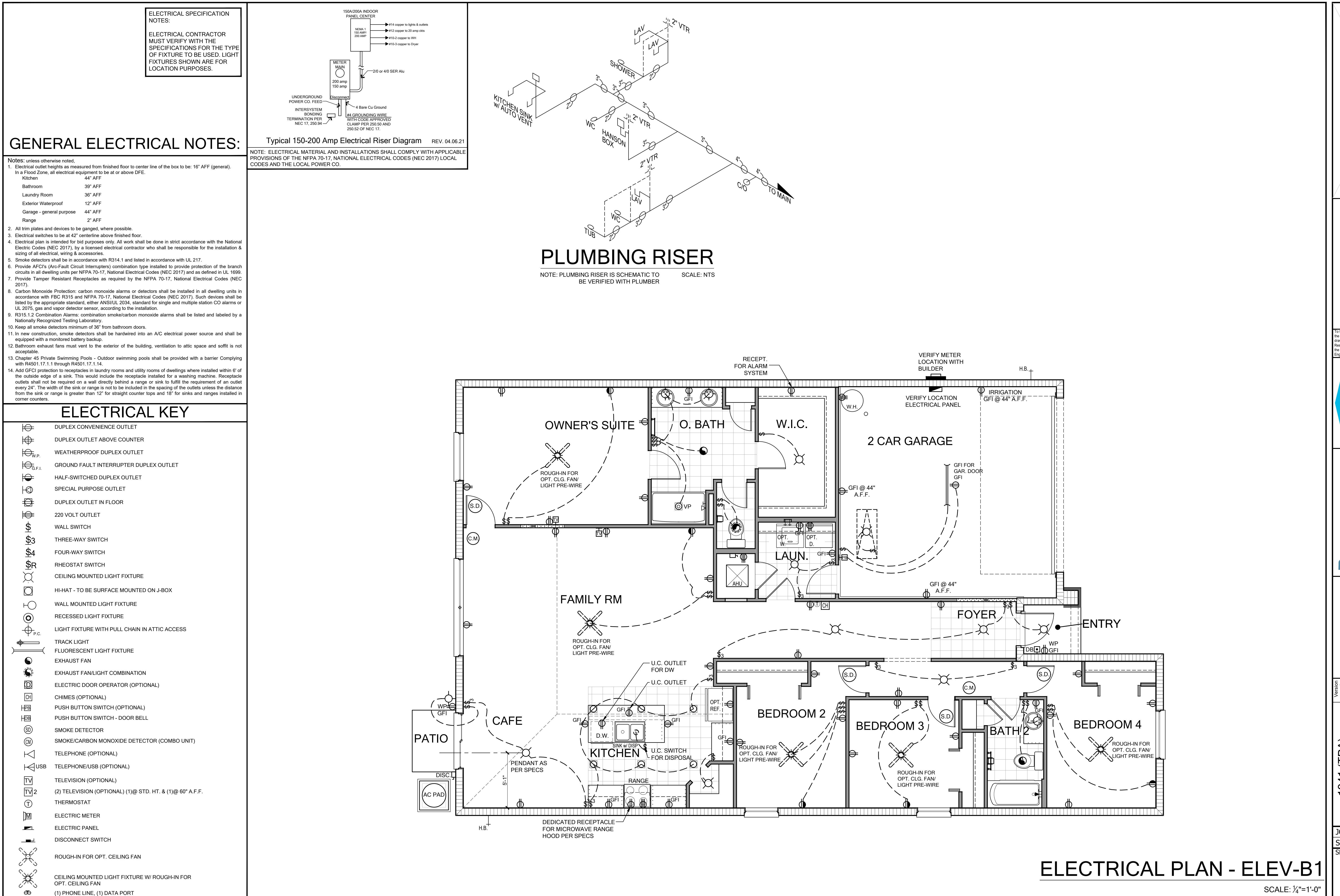
- Approved flashings shall be installed at the following locations.
 - Exterior window/door openings.
 - Intersection of chimneys or other masonry construction with frame walls.
 - Under and at the ends of masonry, wood or metal copings and sills.
 - Continuously above all projecting wood trim.
 - Where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction.
 - At wall and roof intersection.

Coastal Flashings

flashing material for coastal locations (ex: within 3,000 feet of the ocean) shall be corrosion resistant material (ex: zinc and/or stainless steel) and shall be selected for compatibility with adjacent wood derivatives per the manufacturer's recommendations.

09.01.21

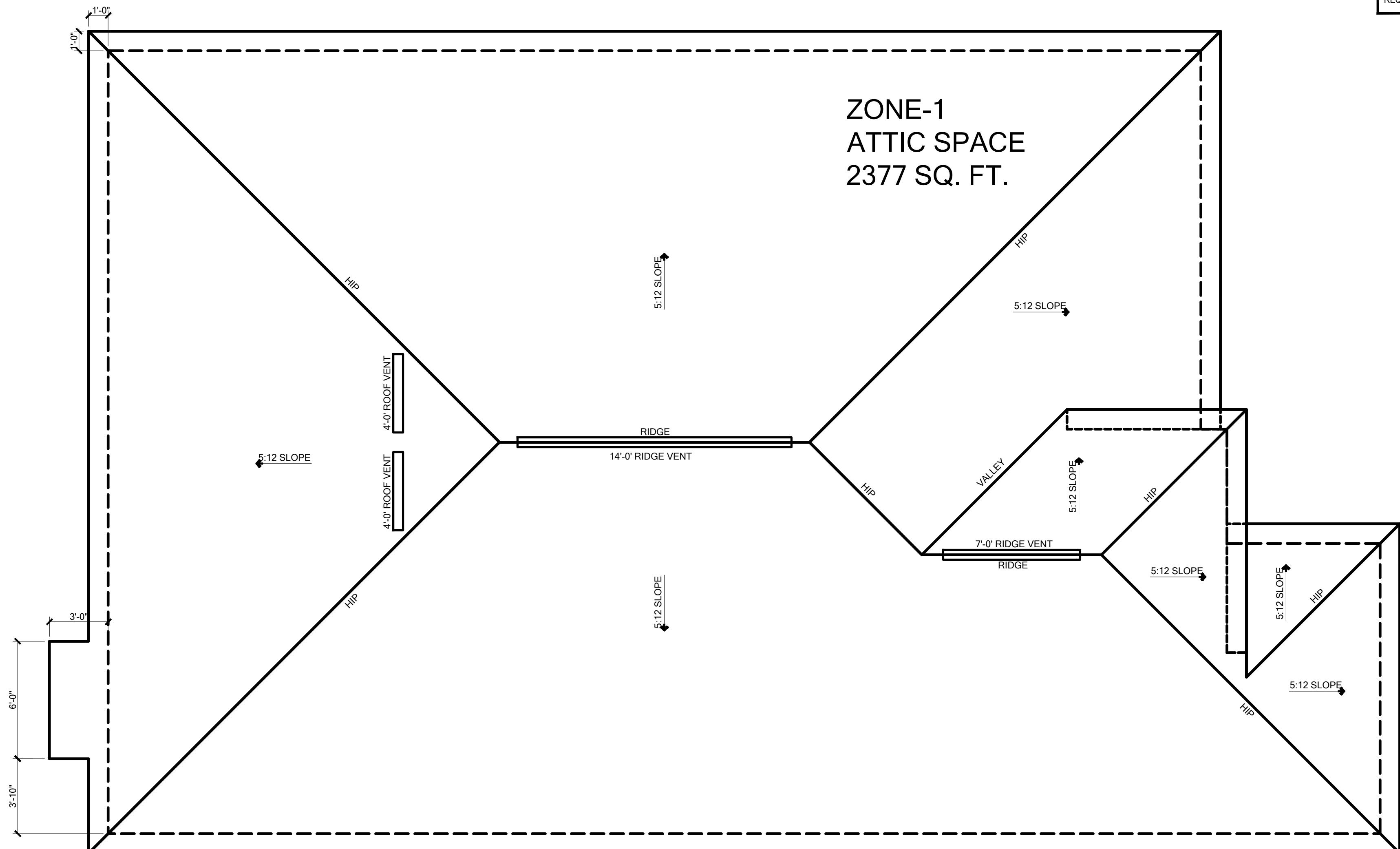
| | | | |
|------------------|------------------------|--------------------------|---------------|
| Plan Name: | 1941 (TPA) | Version 5.1 | NOT ARR CO TW |
| Community: | CopperSpring 55 | | |
| Lot: | 01 | Block: | 03 |
| Address: | | 7143 Emerald Spring Loop | |
| Date: | 9/13/2021 | | |
| Lennar No.: | 15289 76 0301 | | |
| JOB NO : | | 21-13152 | |
| SCALE : | | AS NOTED | |
| SHEET NO. | | | |
| 3.1 | | | |



LENNAR
1000 Mess St, Suite 200 | Tampa, FL 33607
www.LennarTampa.com

| | |
|------------|--------------------------|
| Community: | CopperSpring 55 |
| Lot: | 01 |
| Block: | 03 |
| Address: | 7143 Emerald Spring Loop |
| Date: | 9/13/2021 |

Saved BY: MSEEERAMIL Date: 9/13/2021 | Plot Date: 9/13/2021 | File Location: \\ko-server\Public\Projects_Contractors Files\Lenmar Homes Tampa\2021 ATC Working\Copper Spring 55\21-13152 Lot 0301 Copper Spring 55 1941 B1 RH\21-13152 Lot 0301 Copper Spring 55 1941 B1 RH.dwg



ROOF PLAN - ELEV-B1

SCALE: $\frac{1}{4}$ "=1'-0"

| ATTIC VENTILATION CALCULATIONS - B1 (TRB) | | | | | | | | | |
|---|---------------------------------|---------------------------------|--|---------------------------------|--|----------------------------|------------------------|--|-------|
| ATTIC VENTILATION REQUIRED | | | | | | UPPER VENTILATION PROVIDED | | | |
| ATTIC SPACE | SQ. IN. of ventilation required | SQ. FT. of vented soffit needed | 1/300 Rule (Must Provide Upper Ventilators) | | | Ridge Vent Amt (Ft.) | Off-Ridge Amt. | Total Ventilation Provided by Upper Ventilators (See Elev) | |
| | | | Total SQ. IN. of ventilation required | SQ. FT. of vented soffit needed | SQ. IN. of ventilation to be provided by upper ventilators | SQ. IN. of Ventilation | SQ. IN. of Ventilation | | |
| Main Floor (Zone 1) | 2377 | 2282 | 326 | 1141 | 81 | 570 | 21 | 2 | 591.0 |
| | | | | | | | 315.0 | 276.0 | |

Attic Ventilation

| | |
|---|--|
| to be in compliance with the Florida Building Code 7th Edition al R806. | |
| A free ventilating area shall be 1/150 of the area of the vented ating area may be reduced to 1/300 provided that at least 40% 50% of the required ventilation is provided in the upper portion of ventilated. Upper ventilators shall be located no more than 3 feet (ally) below the ridge or highest point of the space, with the quired ventilation provided by eave or cornice vents. | |
| S BASED ON THE FOLLOWING VALUES, SEE ROOF PLAN** (ed with Manufacturer Specifications) | |
| ANTS - 138 SQ. IN. OF NET FREE AREA / UNIT | |
| - 7 SQ. IN. OF NET FREE AREA / SQ. FT. | |
| T VENTS - 126 SQ. IN. OF NET FREE AREA / SQ. FT. | |
| ed soffit is provided due to fire protection, the contractor shall use the vents: K-AIR (Shingle Roof) - 9 SQ. IN. OF NET FREE AREA / FT. soffit Needed) x 7 = (Sq. In. Needed) / 9 = <u>Linear Ft.</u> of Deck-Air Needed) | |

09 / 13 / 2021

Best of the Engineer's knowledge, information and belief
structural plans and specifications contained within these
plans comply with the 2020 Florida Building Code -
FBC 2020
Structural 7th Edition. Engineer's signature and seal is only for
the structural engineering portions of the drawing pages bearing
the engineer's signature and seal.

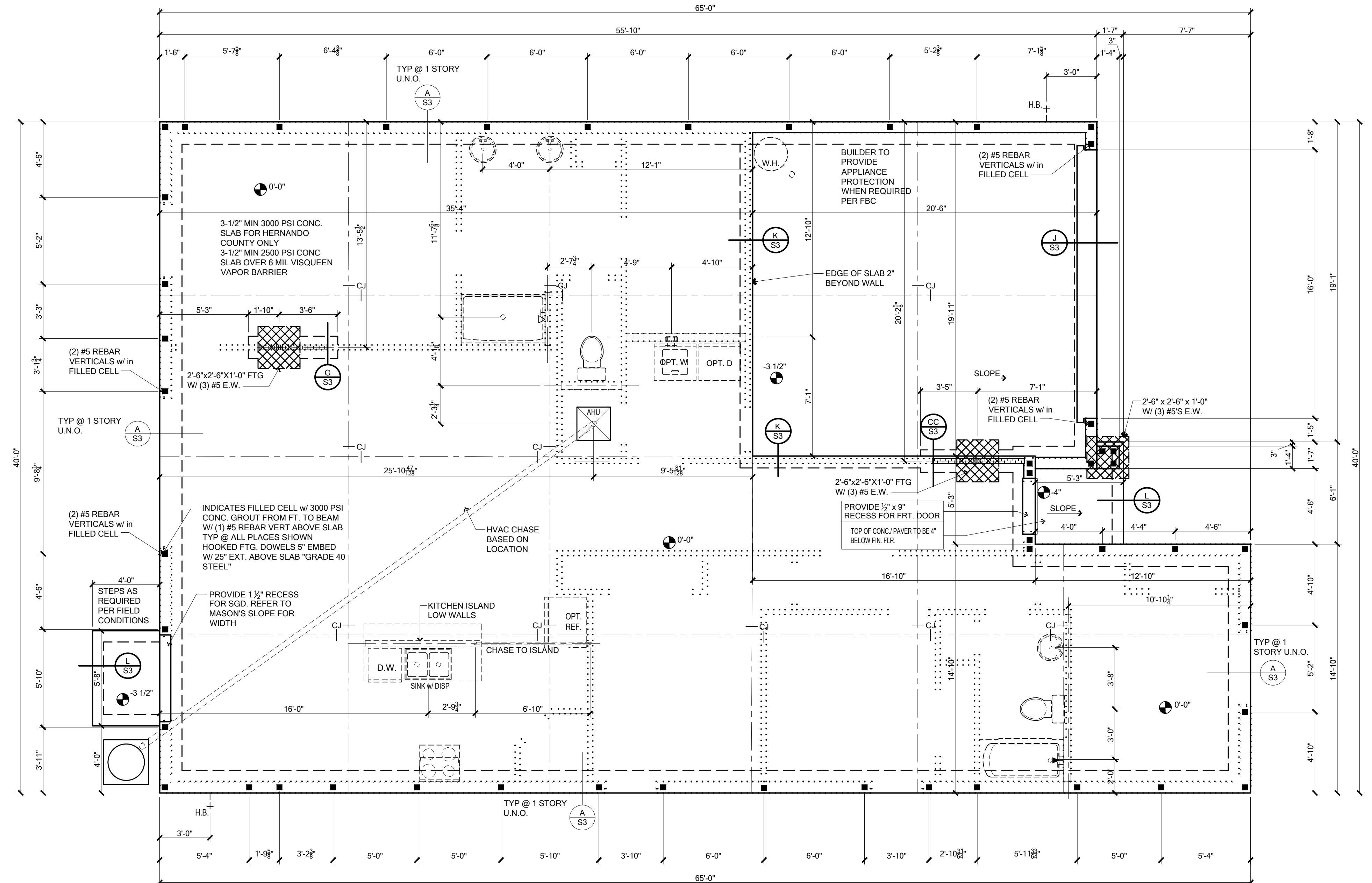


ARE FOOTAGE SHOWN ARE APPROXIMATE. DIMENSIONS IN M FRAME & BLOCK AND DO NOT ACCOUNT FOR DRYWALL. THIS PLAN MAY NOT BE REPRODUCED IN ANY MANNER.

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| | | | |
|-------------|--------------------------|--------|----|
| Community: | CopperSpring 55 | | |
| Lot: | 01 | Block: | 03 |
| Address: | 7143 Emerald Spring Loop | | |
| Date: | 9/13/2021 | | |
| Lemmar No.: | 15289 76 0301 | | |
| Garage: | RH | | |
| NOTE: | | | |

5

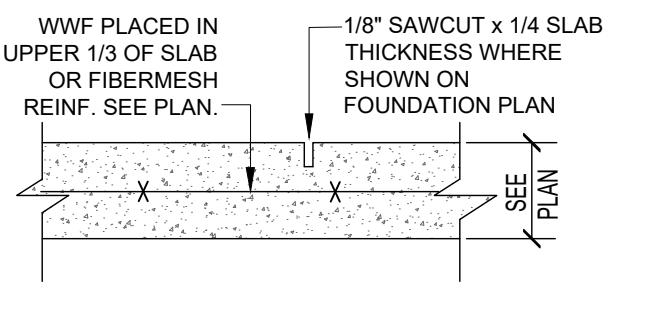


FOUNDATION PLAN MONO - ELEV-B1

SCALE: $\frac{1}{4}$ "=1'-0"

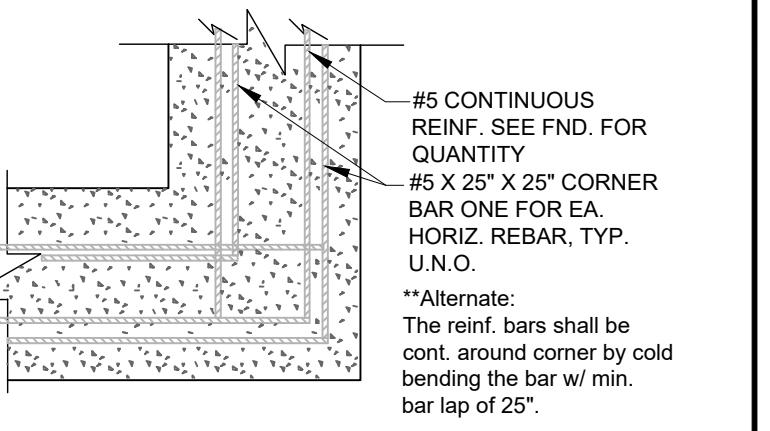
NOTE:

- WHERE PROJECT IS TO BE LOCATED IN KNOWN RADON GAS PREVALENT AREAS, APPENDIX "P" OF THE FLORIDA BUILDING CODE 7TH EDITION (2020) RESIDENTIAL IS TO BE IMPLEMENTED. CONCRETE STIRRUPS IN THESE AREAS TO BE A MINIMUM OF 3000 P.S.I. THEREFORE, ANY AND ALL NOTES ON THESE PLANS THAT INDICATED 2500 P.S.I. SHALL BE REPLACED WITH 3000 P.S.I. FOR THE CONCRETE STRENGTH.
- SEE SHEET SN FOR SOIL & TERMITE NOTES. BORATE / BORACARE TREATED LUMBER IS AN ALTERNATE TERMITE PROTECTION TO SOIL POISONING.



CONTROL JOINT DETAIL

SCALE: $\frac{3}{4}$ " = 1'-0"

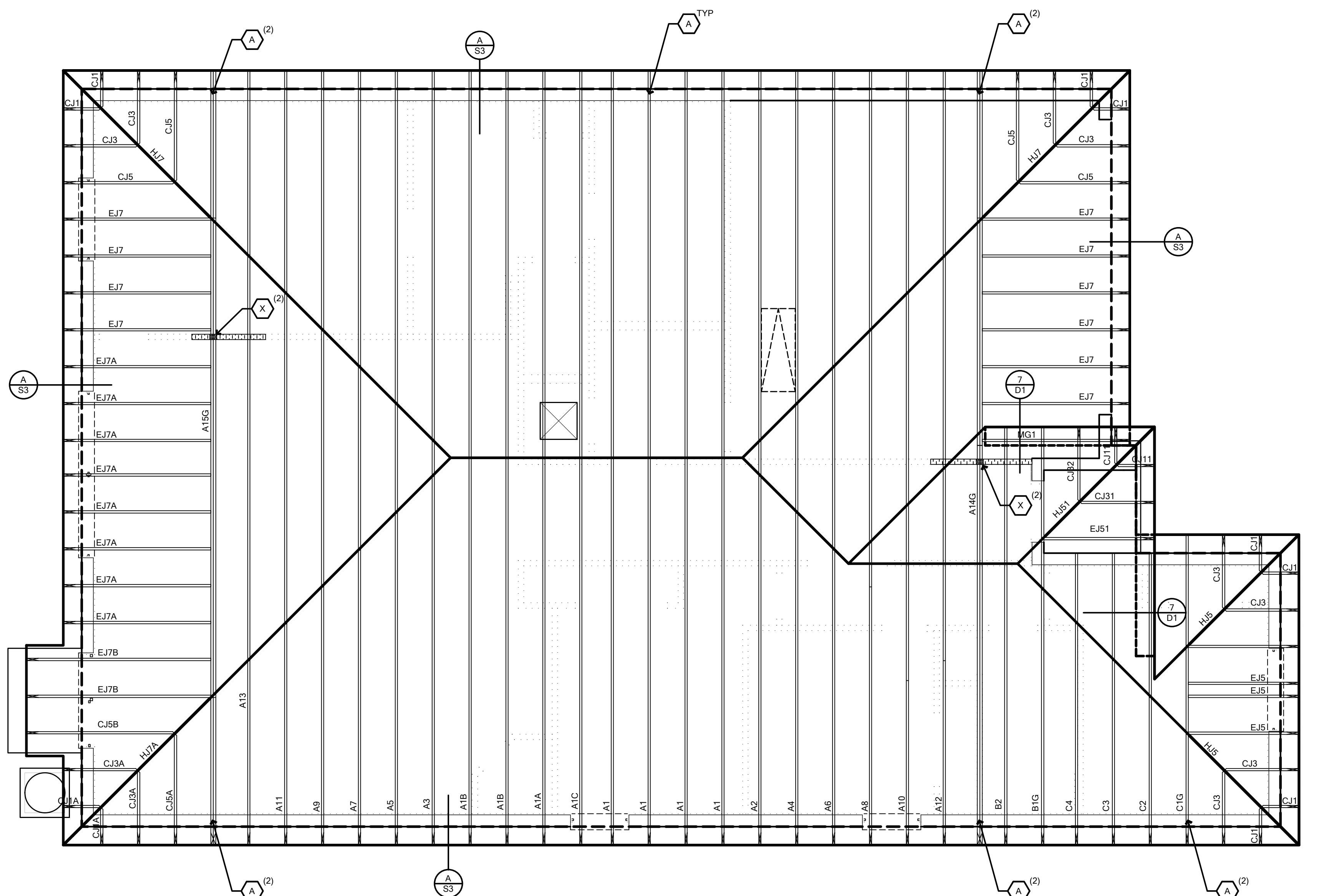


TYP. CORNER BAR DETAIL

SCALE: $\frac{3}{4}$ " = 1'-0"



| | |
|-----------------------------------|----------------------|
| Plan Name: 1941 (TPA) | Version: 5.1 |
| Community: CopperSpring 55 | |
| Block: 03 | |
| Lot: 01 | |
| Address: 7143 Emerald Spring Loop | Date: 9/13/2021 |
| Community No.: 15289 76 0301 | Lennar No.: 21-13152 |
| JOB NO : | AS NOTED |
| SCALE : | AS NOTED |
| SHEET NO. | 6 |



GENERAL INSTALLATION NOTES

- Provide full mortar head and bed joints.
- Shore filled holes as required.
- Lintels must comply with the architectural and/or structural drawings.
- U-Lintels are manufactured with 5-1/2" long notches at the ends to accommodate vertical cell reinforcement and grouting.
- Lintels shall be designed for lateral deflection, except lintels 17'-4" and longer with a nominal height of 8' meet or exceed L180.
- Bottom field added rebar to be located at the bottom of the lintel cavity.
- 7/32" diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
- Cast-in concrete may be provided in composite lintel in lieu of concrete masonry units.
- Safe load ratings based on rational design analysis per ACI 318 and ACI 530.
- Per Florida Building Code - Unified Council, Florida ACI-16 16-08-06-034.15.
- The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in accordance with ASTM C-926 or other approved coating.
- Lintels loaded simultaneously with vertical (gravity and uplift) and horizontal (lateral) loads should be checked for combine loading with the following equation:

$$\frac{\text{Applied vertical load}}{\text{Safe vertical load}} + \frac{\text{Applied horizontal load}}{\text{Safe horizontal load}} \leq 1.0$$

GENERAL CONCRETE LINTEL SCHEDULE
APPROVED LINTEL MANUFACTURERS: CASTE-CRETE, QUALITY, LOTT

TYPE DESIGNATION
F = FILLED WITH GROUT / U = UNFILLED
R = RECESSED
CITY. OF #5 REBAR @ BOTTOM OF LINTEL CAVITY
8F16-1B/1T
NOMINAL WIDTH
NOMINAL HEIGHT
#5 REBAR AT TOP
QUANTITY OF #5 REBAR AT TOP
15-5/8" ACTUAL
16" NOMINAL HEIGHT
7-5/8" ACTUAL
8" NOMINAL WIDTH
STANDARD DEPTH IS 7 5/8" IF A RECESS IS PROVIDED IN THE STEEL ROH
6-625(L) LINTEL
POWERS STEEL BOXED LINTEL
#5 REBAR AT TOP MIN. (1) REQ'D
#5 REBAR AT BOTTOM OF LINTEL CAVITY
#5 REBAR AT BOTTOM
REINFORCING PROVIDED IN LINTER (VARIES)
C.M.U.
GROUT
#5 REBAR AT TOP MIN. (1) REQ'D
#5 REBAR AT BOTTOM OF LINTEL CAVITY
#5 REBAR AT BOTTOM
AS INDICATED
16 GAUGE POWERS STEEL BOXED LINTEL
MATERIALS
1. Precast concrete = 3500 psi
2. Filled/recessed lintels = 3000 psi
3. Grouted per ASTM C476 fg = 3000 psi w/
4. maximum 3/8" aggregate and 8" x 11" slugs
5. Rebar per ASTM A615 Grade 60
6. Minimum net area compressive strength = 1900 psi
7. Rebar per ASTM A615 Grade 60
8. Powers Steel Boxed Lintel A416 grade
7-270 low relaxation
9. Minimum depth = 7 5/8"

LINTEL MINIMUM DEPTHS ARE CALLED OUT ON LINTEL PLAN. IF CONTRACTOR INSTALLS A DEEPER LINTEL THAN INDICATED ON THE PLAN, DOING THIS INCREASES THE STRENGTH OF THE LINTEL AND IS APPROVED WITHOUT ENGINEERING LETTER. IF A SMALLER LINTEL IS INSTALLED CONTACT E.C.R. FOR APPROVAL. (SEE LINTEL PLAN FOR SCHEDULE)

LINTEL PLAN NOTES:

- THIS PLAN IS TO BE USED FOR STRUCTURAL INFORMATION ONLY.
- UNLESS NOTED OTHERWISE ALL LINTEL DEPTHS ARE TO BE ASSUMED TO BE 16" MINIMUM DEPTH.
- THE NUMBER OF COURSES OF MASONRY REQUIRED BETWEEN THE LINTEL & THE BOND BEAM SHOULD BE COORDINATED WITH THE ELEVATION DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE PROPER LINTEL HEIGHT.
- LINTELS AT GARAGE DOOR OPENING ARE MINIMUM DEPTH REQUIRED FOR THE DESIGN LOADS. THE DEPTH MAY BE INCREASED IF REQUIRED FOR PROPER LINTEL HEIGHT, G.C. COORDINATE.

POWER STEEL LINTEL IS AN ADEQUATE SUBSTITUTION @ ALL LOCATIONS UNLESS NOTED OTHERWISE AT OPENING LOCATION

**LINTEL PLAN - ELEV-B1**SCALE: $\frac{1}{4}$ "=1'-0"

FOR BUILDING DEPT USE ONLY

Lennar
Community: CopperSpring 55
Lot: 01
Address: 7143 Emerald Spring Loop
Date: 9/13/2021
Lennar No. 15289 76 0301
Job No.: 21-13152
Scale: AS NOTED
Sheet No.: 8

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2020 Florida Building Code - except where otherwise noted. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

KeeSee Associates
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O: 239.264.5100 | F: 239.264.5204
CA No. 9161
Luis Pablo Torres PE - FL # 28784
Scott A. Lenkowsky PE - FL # 46076
AIA Member
ASCE 31 Approved
ASCE 7-16 Approved



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info@keesee.com | www.keesee.com

LENNAR
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Plan Name: 1941 (TPA) Version: 5.1
Community: CopperSpring 55 Lot: 03 Block: 03 Garage: RH
Address: 7143 Emerald Spring Loop
Job No.: 21-13152 Scale: AS NOTED
Sheet No.: SN 1 Date: 9/13/2021

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engineering portions of the drawing pa
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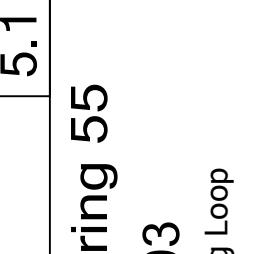
keesee
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1000 Hall Lane, Suite 200, Maitland, Florida 32751 | (407) 880-2333



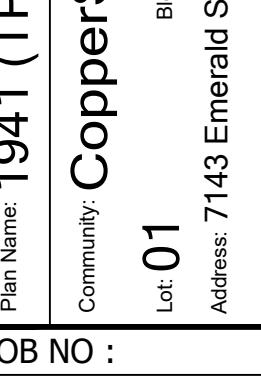
1
2



466



Community: Coppers
Lot: 01
Block:
Address: 7143 Emerald Spring



NO.
S3
(MONO)



ROOF FLASHING AND ROOF FLASHING COMPONENTS TO BE IN ACCORDANCE w/ R903.2, FLORIDA BUILDING CODE 7TH EDITION (2020) RESIDENTIAL

12 (TYP.) VARIES

INSULATION BAFFLE

5/8" OR 1/2" HIGH

ELEV. VARIES

FOR UNDERLAYMENT REQUIREMENTS SEE R905.

PRE ENGINEERED WOOD TRUSS @ 24" O.C. U.N.O.

HURRICANE ANCHOR @ EA. TRUSS (SEE UPLIFT SCHED. METAL PL. UNDER EA. TRUSS)

MOISTURE BARRIER

SHINGLE ROOF, SHINGLES BE IN ACCORDANCE w/ AST D7158-CLASS G or H, or AST D3161-CLASS F, IN ACCORDANCE w/ TABLE R905.2.6.1, FLORIDA BUILDING CODE 7TH EDITION (2020) RESIDENTIAL

ROOF SHEATHING - SEE SCHEDULE - [RSH] - ON FRAMING SHEET FOR SHEATHING AND FASTENER

ALUMINUM DRIP

This technical drawing illustrates a typical interior bearing wall section. The wall is shown in cross-section, featuring a vertical stud frame with horizontal blocking. Key components and dimensions include:

- Vertical studs: 2x #2 SPF STUDS @ 16" O.C. W/ (2) 16d TOENAILS T & B.
- Horizontal blocking: 2x BLOCKING HORIZONTALLY@ INTERVALS NOT EXCEEDING 10'-0" (R302.11).
- Plate and fasteners: 2x P.T. PLATE, (2) #5 CONT. ON 3" CHAIRS (TYP.) secured with 1/4" DIA. X 3 1/4" TAPCONS @ 24" O/C & @ 6" MAX FROM END OF 2 x PLATE.
- Sheathing: 6 x 6 W1.4 x W1.4 WWF OR FIBERMESH.
- Thicknesses: The wall thickness is indicated as 1'-0".
- Vertical dimensions: The height of the wall is labeled as 3 1/2"(min.) - 4"IN.

TYPICAL INTERIOR BEARING WALL w/ OUT UPLIFT

SEE TYP. WALL SECTION SCALE: 3/4"=1'-0"

GG
S3

This technical drawing shows a cross-section of a garage foundation wall and slab. The wall is built of 8"x8"x16" nominal blocks with 3/8" mortar between courses. The slab thickness varies, indicated by a dimension line of 3 1/2". A note specifies "2x4 CONT." near the bottom of the wall. The text "GARAGE DEPTH VARIES" is present at the base of the wall. A scale bar at the bottom left indicates a scale of 3/4" = 1'-0". A circular callout labeled "B S3" is located in the bottom right corner.

8"x8"x16" NOMINAL BLOCK WITH
3/8" MORTAR BETWEEN COURSES

3 1/2"

2x4 CONT.

GARAGE DEPTH VARIES

SCALE: 3/4"=1'-0"

B
S3

This technical diagram illustrates a typical bearing wall at a step shear wall. The wall is shown in cross-section, featuring a vertical column of blocks with horizontal truss blocking at each end. A top plate is secured with Simpson SP2 plates and 10d nails. The wall is sheathed with 1/2" CDX plywood or 7/16" OSB, with common nails at boundaries and edges, and 8d nails in the field. A double top plate is used. The foundation consists of a 20" wide footing at ELEV. -0'-3 1/2", supported by A.F.F. (Architectural Foundation Footings) at ELEV. 0'-0". The wall thickness varies from 3 1/2" to 8" U.N.O. (Unfinished Net Outside). A note specifies "MORTAR BETWEEN AB & BLOCK". A scale of 3/4" is provided.

MORTAR BETWEEN AB & BLOCK

ELEV. 0'-0" A.F.F.

ELEV. -0'-3 1/2" A.F.F.

20" FOOTING

3 1/2" MIN.

3 1/2"(min.) - 4"

(2) #5 CONT.

4" 1'-4" 8" MIN.

U.N.O.

5/8" OR 1/2" HIGH STRENGTH (U.N.O.) (OR $\frac{5}{8}$ " GYP. TYPE "X" @ GARAGE W/A HABITABLE ROOM ABOVE)

S.P.F. DOUBLE TOP PLATE

SIMPSON SP2 w/ (12) 10d NAILS

1/2" CDX PLYWOOD OR 7/16" O.S.B. SHEATHING REQ'D. FOR ALL EXTERIOR OR SHEAR WALLS AS INDICATED ON THE PLAN. ATTACH SHEATHING W/ 8d COMMON NAILS @ 4" O.C. @ BOUNDARIES, 6" O.C. @ EDGES, AND @ 12" O.C. @ FIELD

5/8" x 10" "J" BOLT @ 24" O.C. W/ 2" x 3/16" PLATE WASHER (TYP.) (ALT: 1/2"x12" TITEN HD @ 24" O.C. OR 5/8"x10' WEDGE ANCHOR @ 24" O.C.)

2" 2x BLOCKING NOT EXCEP

2x P.T. BOAR 6 x 6 W14 WWF OR F

INSULATION SIMPSON S

TRUSS BOAR BLOCKING EACH END SEE UPLIF CONNECT

2"x S.P.F.

SEE UPLIF CONNECT

TYPICAL BEARING WALL @ STEP @ SHEAR WALL

"SHEAR WALL"

SCALE: 3/4"

NOTOM CHORD OR 2x4 #2 SPF @ 12" O.C. w/ (2) 12d TOE NAILS (WHEN PARALLEL)
SEE UPLIFT SCHEDULE FOR UPLIFT CONNECTIONS.

(OR EQUAL) STUDS @ 16" O.C. U.N.O.

NG HORIZONTALLY@ INTERVALS NOT EXCEEDING 10'-0" (R302.11)

ON PER CHART ON FLOOR PLAN

SP1 w/ (10) 10d NAILS

TTOM PLATE x W1.4 FIBERMESH

3 1/2"(min.)- 4"

5/8"OR 1/2" HIGH STRENGTH (U.N.O.) (OR 5/8" GYP. TYPE "X" @ GARAGE W/A HABITABLE ROOM ABOVE)

S.P.F. DOUBLE TOP PLATE

SIMPSON SP2 w/ (12) 10d NAILS

5/8" x 10" "J" BOLT @ 24" O.C. w/ 2"x3/16" PLATE WASHER (TYP.) (ALT: 1/2"x12" TITEN HD @ 24" O.C. OR 5/8"x10" WEDGE ANCHOR @ 24" O.C.)

"SIMILAR AT FOUNDATION ONLY" IF NOTED, THIS REFERS TO THE STEP, SIZE OF FOUNDATION AND REINFORCEMENT AND WILL NOT INCLUDE THE WALL ATTACHMENTS

2x P.T. BOTTOM PLATE

6 x 6 W1.4 x W1.4 WWF OR FIBERMESH

3 1/2" MIN.

8" MIN.

3 1/2"(min.) - 4"

(2) #5 CONT.

4" 1-4" 8" MIN.

U.N.O.

TYPICAL BEARING WALL @ STEP

SCALE: 3/4"=1'-0"

RWALL C S3

CC S3

STRENGTH CEILING BOARD PER CODE (OR 5/8" GYP. TYPE "X" @ GARAGE W/A HABITABLE ROOM ABOVE) W/DRYWALL SCREWS @ 7" O.C. CEILING & 8" O.C. WALLS

INSULATION PER CHART ON FLOOR PLAN

1x2 P.T. HORIZONTAL NAILER

STD. 90° HOOK (SEE DETAIL)

1x2 PT WD FURRING @ 24" O.C.

1/2" GYPSUM WALLBOARD U.N.O.

8" C.M.U. TYPICAL

TYPE "S" MORTAR

ARCHITECTURAL FINISH

1x4 P.T. BASE NAILER

3 1/4" BASEBOARD

**MIN. 2500 PSI CONC. SLAB
MIN PSI MAY VARY PER MUNICIPALITY.**

CONCRETE SLAB W/ 6X6 W1.4xW1.4 WWF OR "FIBERMESH"

6 MIL VAPOR BARRIER

**COMP. SOIL.
(COMPAKTED TO 95% MODIFIED PROCTOR ASTM D1557)**

**(2) #5 REBAR CONT.
ON 3" CHAIRS TYP.
U.N.O.**

12" U.N.O.

12" MIN. CLR.

3" MIN. CLR.

**1'-4" (1 STORY)
1'-8" (2 STORY)**

25" PERF/S3

4"x4" INSPECTION PORT AT EACH FILLED CELL TYPICAL

AT GARAGE CONTRACTOR TO CUT BLOCK OR POUR CURB DUE TO SLOPE

NOTE: EXTEND DECO FINISH 4" to 6" BELOW GRADE

12" MIN.

8" MIN.

1'-8"

STD. 90° HOOK (SEE DETAIL)

TYPICAL WALL SECTION

SCALE: 3/4" = 1'-0"

A

S3

FRAME WALL TO C.M.U. WALL CONNECTION

SEE TYP. WALL SECTION FOR ADDITIONAL SLAB INFORMATION.

SCALE: 3/4"=1'

TYPICAL THICKENED SLAB EDGE

SCALE: 3/4"=1'-0"

This technical drawing illustrates a cross-section of a typical exterior frame wall footing. The drawing is labeled 'D-S3' in a circular callout at the bottom left. Key dimensions shown include a total height of 12" min., a concrete slab thickness of 6" x 6 W1.4 x W1.4 WWF or FIBERMESH, and a soil compaction requirement of 95% MODIFIED PROCTOR ASTM D1557. The wall section features vertical studs, horizontal blocking, and a vapor barrier. A note specifies 2x blocking horizontally at intervals not exceeding 10'-0" (R302.11). The drawing also indicates the use of 5/8" x 10" "J" bolts with 2" x 3/16" plate washers. A note at the top right states: "1/2" OR 7/16" OSB MIN. PLYWOOD SHEATHING NAILED W/ 8d COMMON NAILS @ 4" O/C BOUNDARIES, 6" O/C EDGES, AND 12" O/C FIELD. SHEAR WALL REQUIRES 2x BLOCKING @ SEAMS." A separate note at the bottom right indicates 1/2" gypsum board thickness.

2x STUDS @ 16" O/C
INSULATION PER FBC AND ENERGY FORM SUBMITTED WITH PERMIT APPLICATION

7/8" STUCCO FINISH PER ASTM C. 926 APPLY 3 LAYERS W/ TOTAL THICKNESS 7/8" OVER METAL LATH. FIRST 2 LAYERS 3/8" THICK EACH. 3RD LAYER 1/8" THICK.

SIMPSON SP1 w/ (10) 10d NAILS @ EA. STUD

2X PT PLATE

WEEP SCREED INSTALLED PER MFR INSTRUCTIONS

FINISH GRADE **8"** **MIN.**
12" **MIN.** **1'-8"**

TING
LE: 3/4"=1'-0"

E
S3

10' MINIMUM CONTINUOUS
CONTINUOUS TO FOOTER BELOW 90 H
@ K

20" MIN. LAP [24" MIN. LAP]
#3 OR #4 REINFORCING E

#3 & #4 LAP SPLICE
25" MIN. LAP [30" MIN. LAP]

#5 REINFORCING BAR
#5 LAP SPLICE
36" MIN. LAP [36" MIN.]

#6 REINFORCING
#6 LAP SPLICE

REBAR
SCALE: N.T.

FRAME-DOWN FALSE BEAM w/ (3) 10d NAILS TO TRUSS TOP CHORD AT 24" O.C. MAX.
SEE PLAN FOR TOP OF BEAM

(2) HTS20

VARIABLES PER PLAN
2x4 P.T. PLATE
7/16" O.S.B.
VARIABLES PER PLAN
COLUMN LOCATION

VARIABLES ELEVATION

OOK DETAIL

O. BLOCK

BAR

LAP

BAR

#5 REINFORCING BAR
GRADE 40 MIN. Fy= 40ksi
[GRADE 60 MIN. Fy= 60ksi]

R 1 7/8"

10"

SEE LAP SPLICING DETAIL

#5 STD. 90 HOOK

F S3

CONTINUOUS
PCS. TIED SECURELY

NOTE:
SEE SECTION C/S3 FOR ADDITIONAL INFORMATION

SIMPSON SP1 w/ (10) 10d NAILS

2x P.T. PLATE

SPACE ANCHOR BOLTS 6" MAX FROM END OF 2" x PLATE

2x BLOCKING HORIZONTALLY@ INTERVALS NOT EXCEEDING 10'-0" (R302.11)

1/2" GYP. WB (MIN.) @ GARAGE SIDE IF APPLICABLE.

5/8"DIA. EXPANSION BOLT @24 " O.C. W/ 7" EMBEDMENT (MIN. SHEAR 3500#, MIN. TENSION 2600#)

6 x 6 W1.4 x W1.4 WWF OR FIBERMESH

3 1/2" (min.) -4"

1'-0"

(2) #5 CONT. ON 3" CHAIRS (TYP.)

8" 1'-4" 8"

TYPICAL INTERIOR BEARING WALL w/ UPLIFT

SCALE: 3/4"=1'-0"

G S3

SEE PLAN

SEE ROOF PLAN FOR TRUSS CONNECTION INFO & LAYOUT DESIGN

SEE ROOF PLAN FOR STRUCTURAL BEAM SIZE & CONNECTION INFO

2x4 #2 SYP P.T. FRAMING w/ MIN 7/16" O.S.B. SHEATHING ATTACHED PER NAILING SCHEDULE

SEE PLAN FOR STRUCTURAL

VARIABLES

1 1/2" RECESS FOR S.G.D. (U.N.O.)

6 x 6 W1.4 x W1.4 WWF OR FIBERMESH

3 1/2" (min.) -4"

3 1/2" (min.) -4"

SEE A/S3/J/S6 FOR REINF. INFO.

OPTION #1

SEE TYP. WALL SECTION FOR ADDITIONAL SLAB INFORMATION.

To the
the
draw
Res
the
Eng

version

OPT: DEPRESS SLAB 5 1/2"

DEEP AND 6" BEYOND
DOOR TO RECEIVE
PAVERS / DRIVEWAY
CONCRETE SLAB

PAVERS

BLOCK WALL BEYOND

14"

O.H.D. RECESS

3 1/2" MIN.

SEE A/S3 OR J/S6
FOR REINF. INFO.

4"

1-8"

3" MIN. CLEARANCE

1'-4" (1 STORY) / 1'-8" (1 STORY w/ DEPRESSED SLAB OPT.)
1'-8" (2 STORY)

GARAGE DOOR SLAB RECESS

SEE TYP. WALL SECTION FOR
ADDITIONAL INFORMATION

SCALE: N.T.S.

J.1

S3

This technical drawing illustrates a garage door slab recess. The slab has a thickness of 3 1/2". A vertical column is shown with a height of 13". The top of the slab features an O.H.D. RECESS with a depth of 4". The bottom of the slab has a clearance of 3" MIN. CLEARANCE. Reinforcement information is provided in the notes: SEE A/S3 OR J/S6 FOR REINF. INFO. Vertical dimensions for the recess are 1'-4" (1 STORY) and 1'-8" (2 STORY). The drawing also shows an EXPANSION JOINT and a BLOCK WALL BEYOND.

EXPANSION JOINT

BLOCK WALL BEYOND

13"

O.H.D. RECESS

3 1/2"

SEE A/S3 OR J/S6
FOR REINF. INFO.

4"

4"

4"

1'-8"

3" MIN. CLEARANCE

1'-4" (1 STORY)
1'-8" (2 STORY)

GARAGE DOOR SLAB RECESS

SEE TYP. WALL SECTION FOR
ADDITIONAL INFORMATION

SCALE: N.T.S.

This technical drawing illustrates the construction details for an interior wall slab step connection. The top portion shows a circular view of the connection point, labeled 'INTERIOR'. It features a concrete nail plate embedded in a concrete slab. Key dimensions include a height of 3 1/2" (min.) - 4" from the bottom of the slab, a thickness of 2" for the concrete nail plate, and a distance of -3 1/2" from the center of the plate to the exterior wall. Labels indicate 'HOLD GYP. BD. 1/2" FROM SLAB' and 'CONT. BEAD SEALANT'. A callout specifies 'CONCRETE NAILS W 1 1/2" EMBEDMENT @ 12" O.C. STAGGERED, FROM BOTTOM PLATE TO CONCRETE (MIN. SHEAR 180# MIN. TENSION 120#)'. The bottom portion shows a side view of the wall slab. It consists of a concrete slab resting on a 6 MIL VAPOR BARRIER. The thickness of the slab is indicated as 7"-8". A dimension of 3 1/2" (min.) - 4" is shown between the vapor barrier and the wall. The label 'CONCRETE SLAB' points to the top surface of the slab.

GARAGE

2X STUDS @ 24" O.C. U.N.O.

1/2" GYPSUM WALLBOARD U.N.O.
W DRYWALL SCREWS @ 8"O.C.

INSULATION PER CHART
ON FLOOR PLAN

CONT. BEAD SEALANT

2"

3 1/2"

6 x 6 W1.4 x W1.4
WWF OR FIBERMESH

3 1/2"(min.) - 4"

4" 4"

ON-BRG.
LE: 3/4"=1'-0"

K
S3

SEE DETAIL 16/D1 FOR
COLUMN TO PORCH SILL
ATTACHMENTS & 18/D1
FOR COLUMN TO BEAM
ATTACHMENTS

0'-0" FIN. FLR.

3-4"

TAPERED

SEE E1

COLUMN SIZE AND BASE CONNECTION INFO.

SECURE 2x4 P.T. BTM. PLATE w/ 1/4"x3" TAPCONs AT 8" O.C.

TRIM PER PLAN

SQUARE CMU BLOCK BASE, SIZE VARIES PER PLAN w/ MIN. (2) #5 VERTICALS FILLED SOLID (SEE PLAN FOR SIZE AND REINFORCEMENT)

BRICK PAVERS or SLAB PER COMMUNITY SPECS

SEE FOUNDATION CONC. PAD INFO.

CD12

SCALE: 3/4" = 1'-0"

SLAB STEP & RECESS @ S.G.D.

SCALE: 3/4"=1'-0"

M S3

MASONRY WALL AND PAD FOOTING

8" MASONRY WALL

CONT. FOOTING STEEL

GRADE

FOOTING DEPTH SEE SCHEDULE MIN. 8" 12" MIN.

PAD REINFORCEMENT (SEE SCHEDULE)

FOOTING WIDTH SEE SCHEDULE

FOOTING BEYOND 3" MIN. CLEARANCE

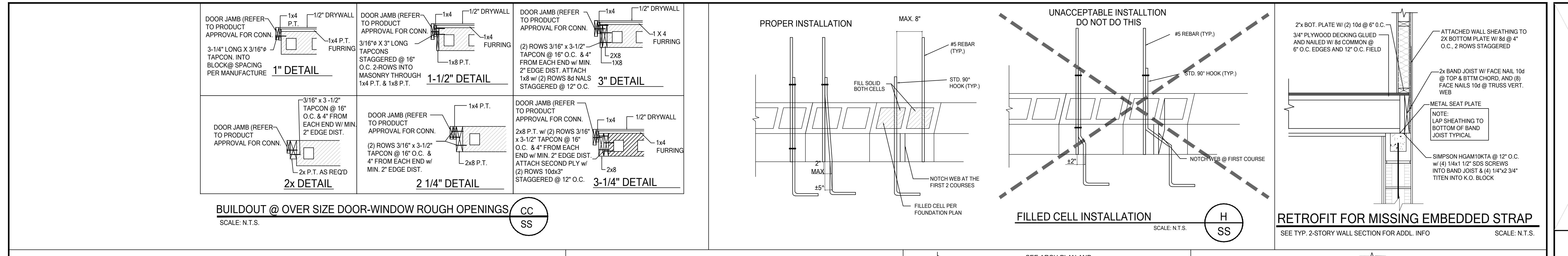
EXTEND FILL CELLS TO FOUNDATION PAD MAT REINFORCING.

3 1/2"(min.) 3" 4"

N S3

PATIO COLUMN FTG. DETAIL

SCALE: N.T.S.



FOR BUILDING DEPT. USE ONLY

09/13/2021

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2020 Florida Building Code - Residential Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

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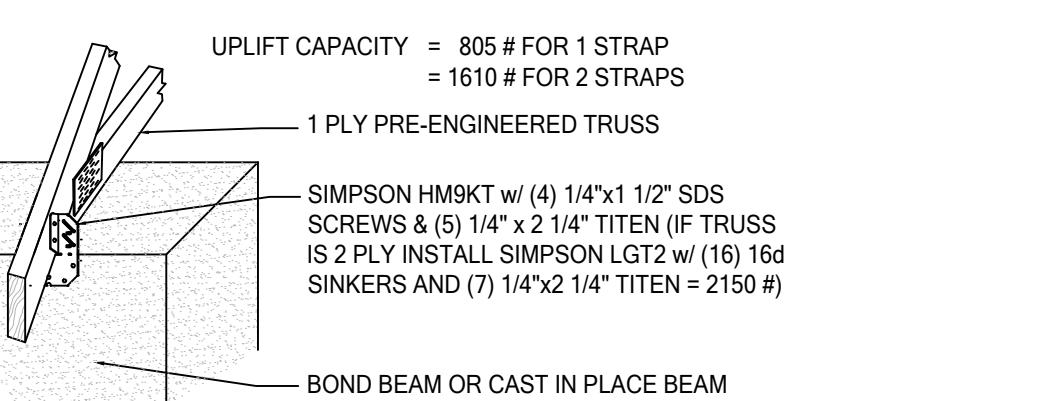
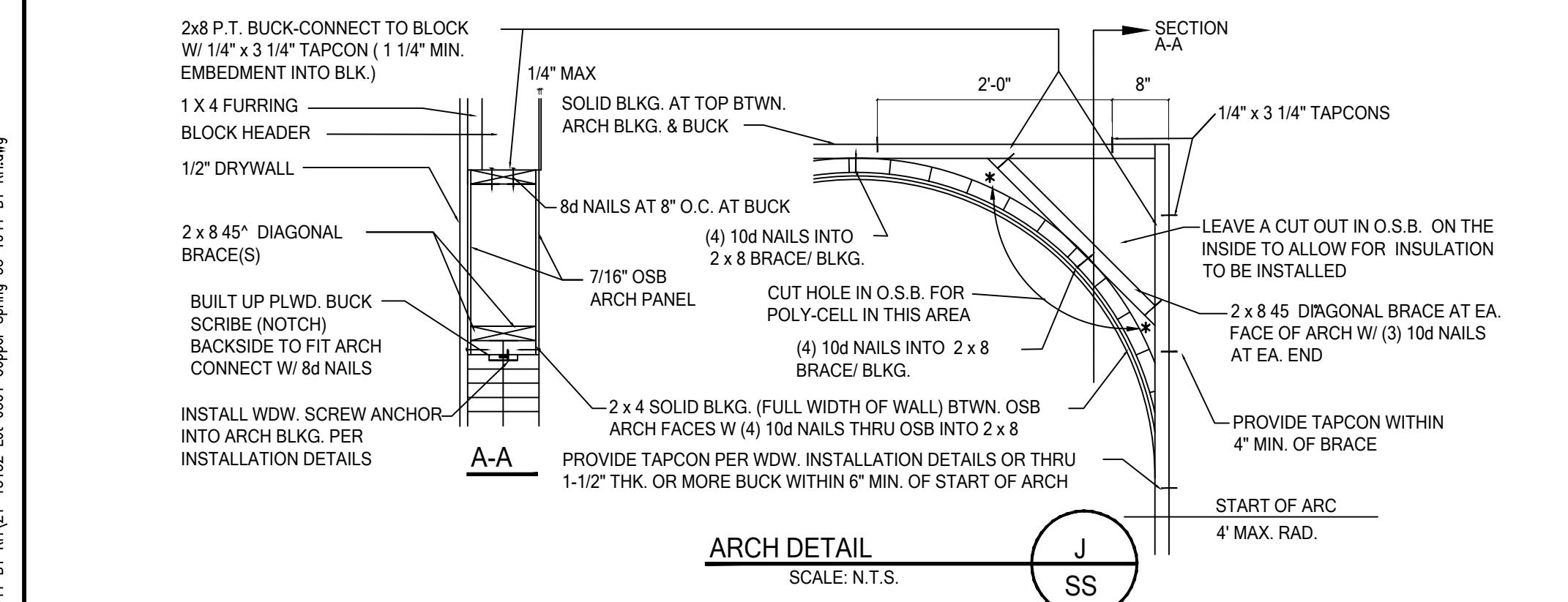
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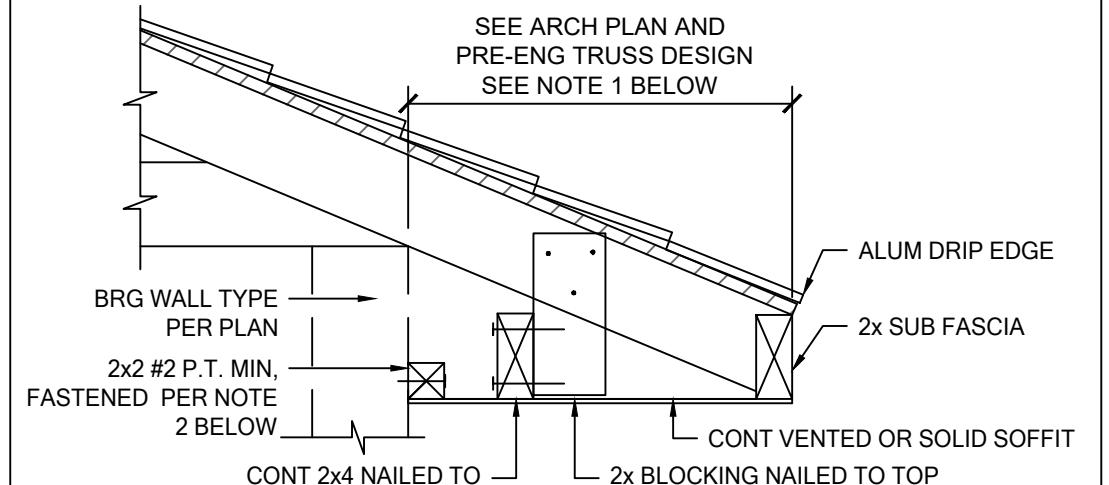
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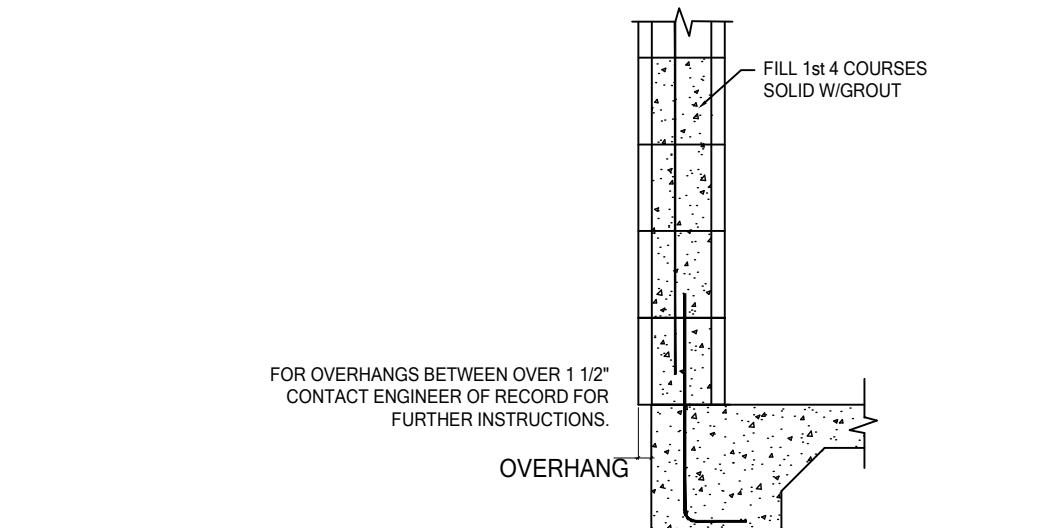
NOTE: ALL DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND NOT ACCORDING TO PRINTING STANDARDS. THIS CAN NOT BE REPRODUCED IN WHOLE OR IN PART.



RETROFIT TRUSS DETAIL



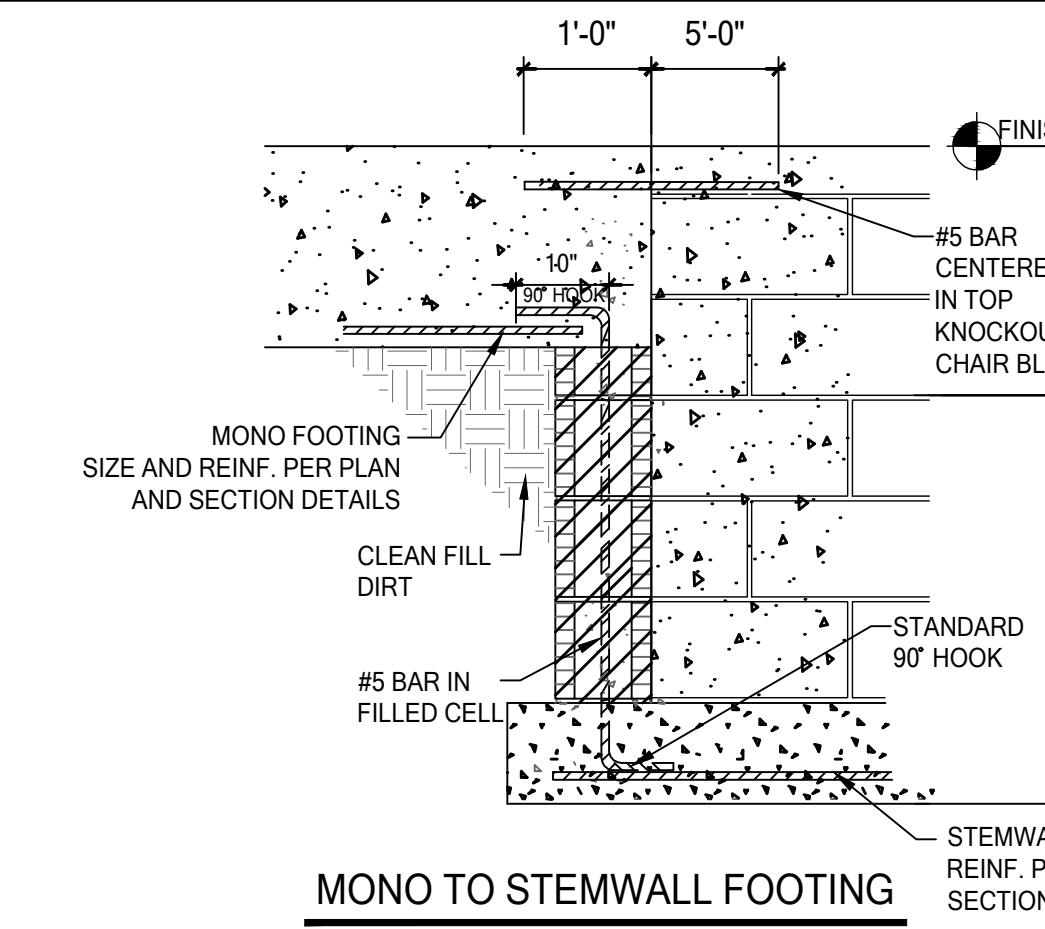
1. G.C./BUILDER TO VERIFY/PROVIDE SOFFIT MATERIAL SPAN CAPACITIES BASED ON THE DESIGN PRESSURES SPECIFIED FOR COMPONENTS AND CLADDING LISTED IN THE DESIGN CRITERIA ON SHEET SN.
2. 2x2 #2 MIN. P.T. w/ J-CHANNEL SECURED @ 24" O.C. FASTEN TO:
- CMU w/ 3/16"x3" TITEN @ 16" O.C.
- WOOD w/ 0.148" x 3 1/4" @ 16" O.C.
3. [F] CHANNEL APPLICATION: 2X2 NOT REQUIRED SEE (PA) INSTALLATION GUIDE



RETROFIT WALL OVERHANG DETAIL (NTS)

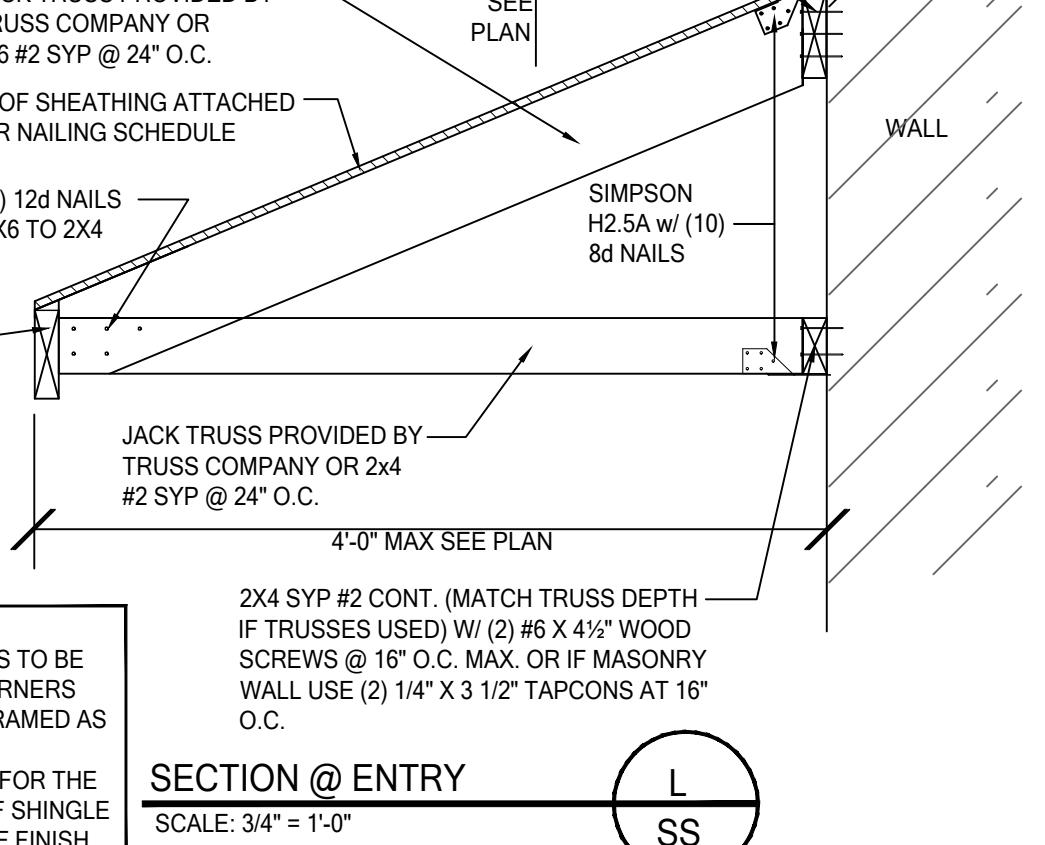
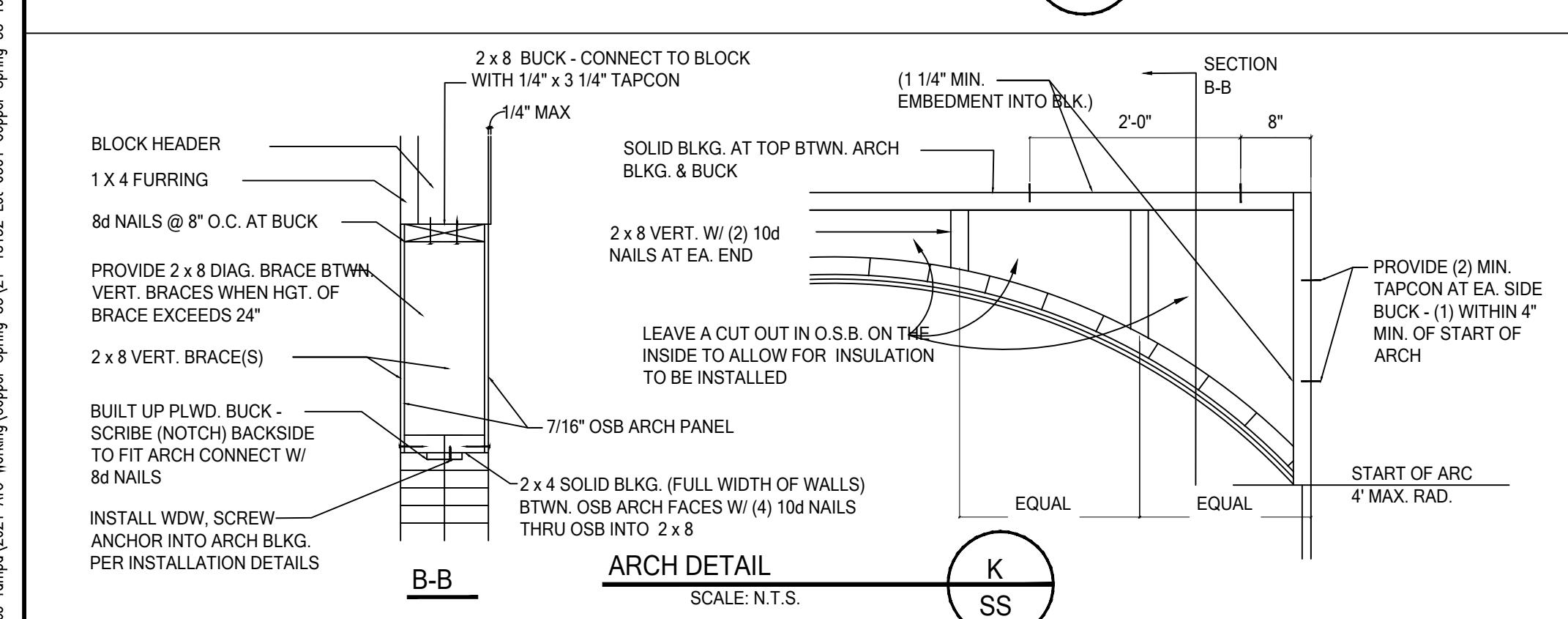
FOR OVERHANGS BETWEEN 3/4" TO 1 1/2"

NOTE: FOR OVERHANGS LESS THAN 3/4" - NO REPAIR REQ'D.



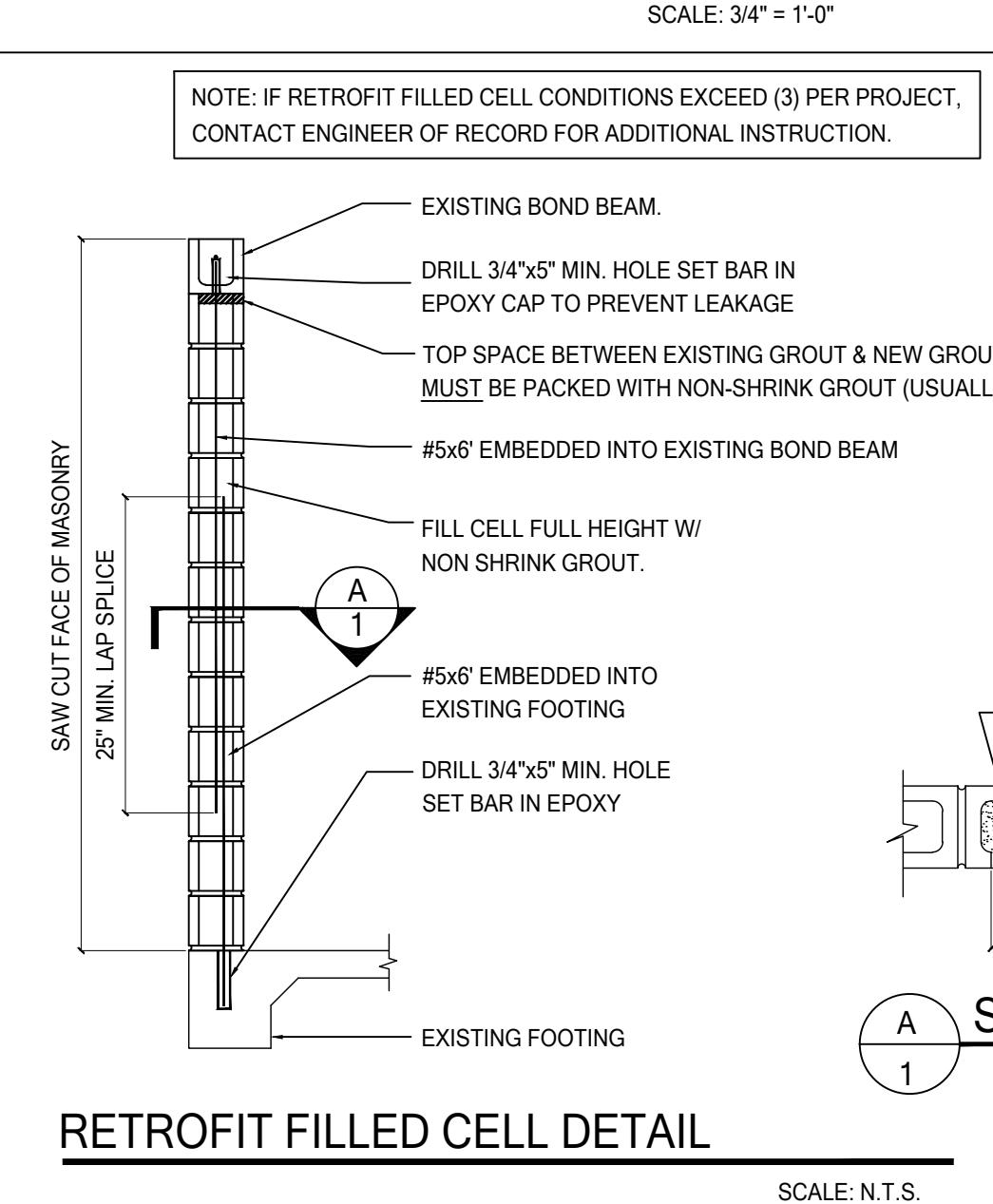
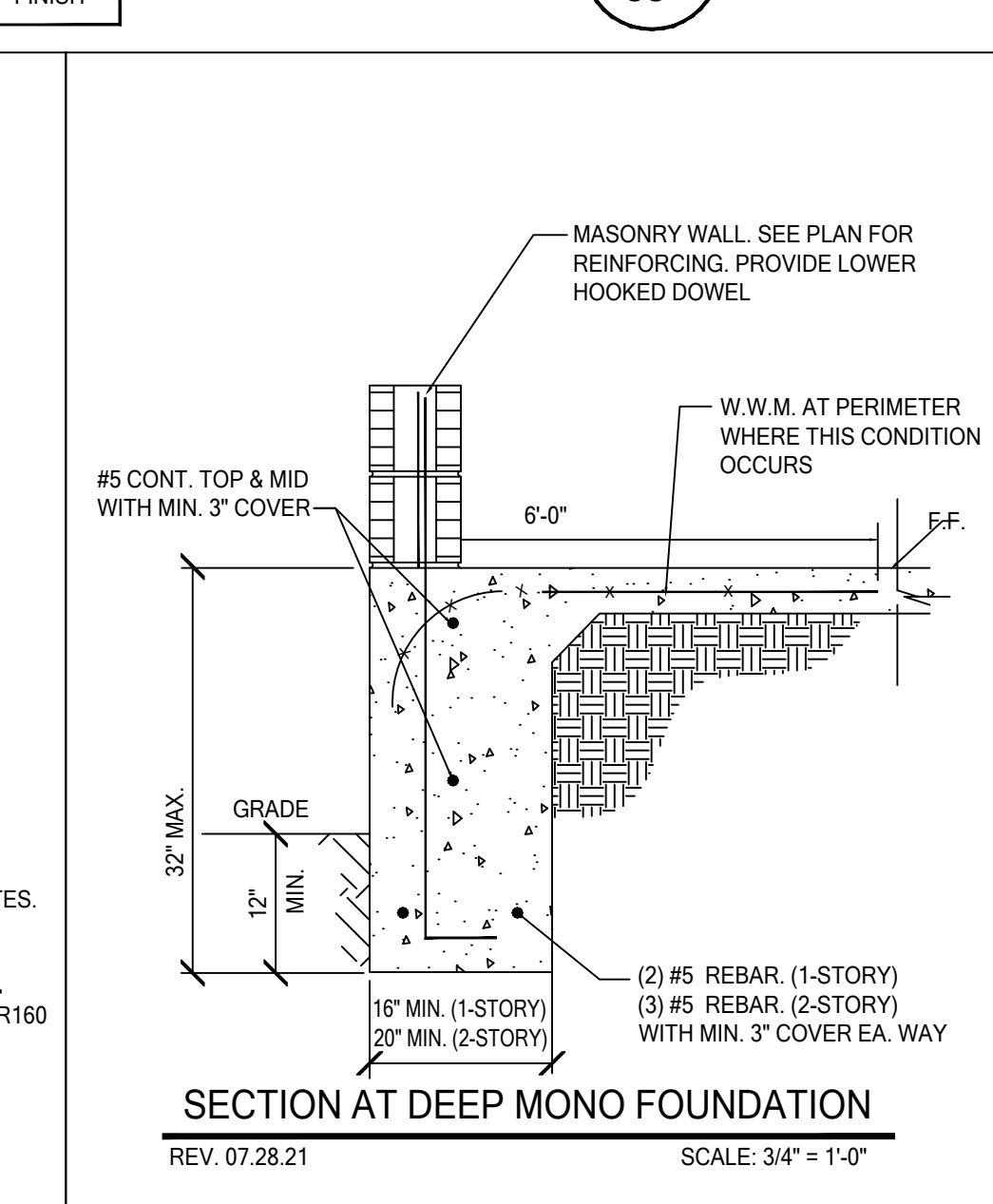
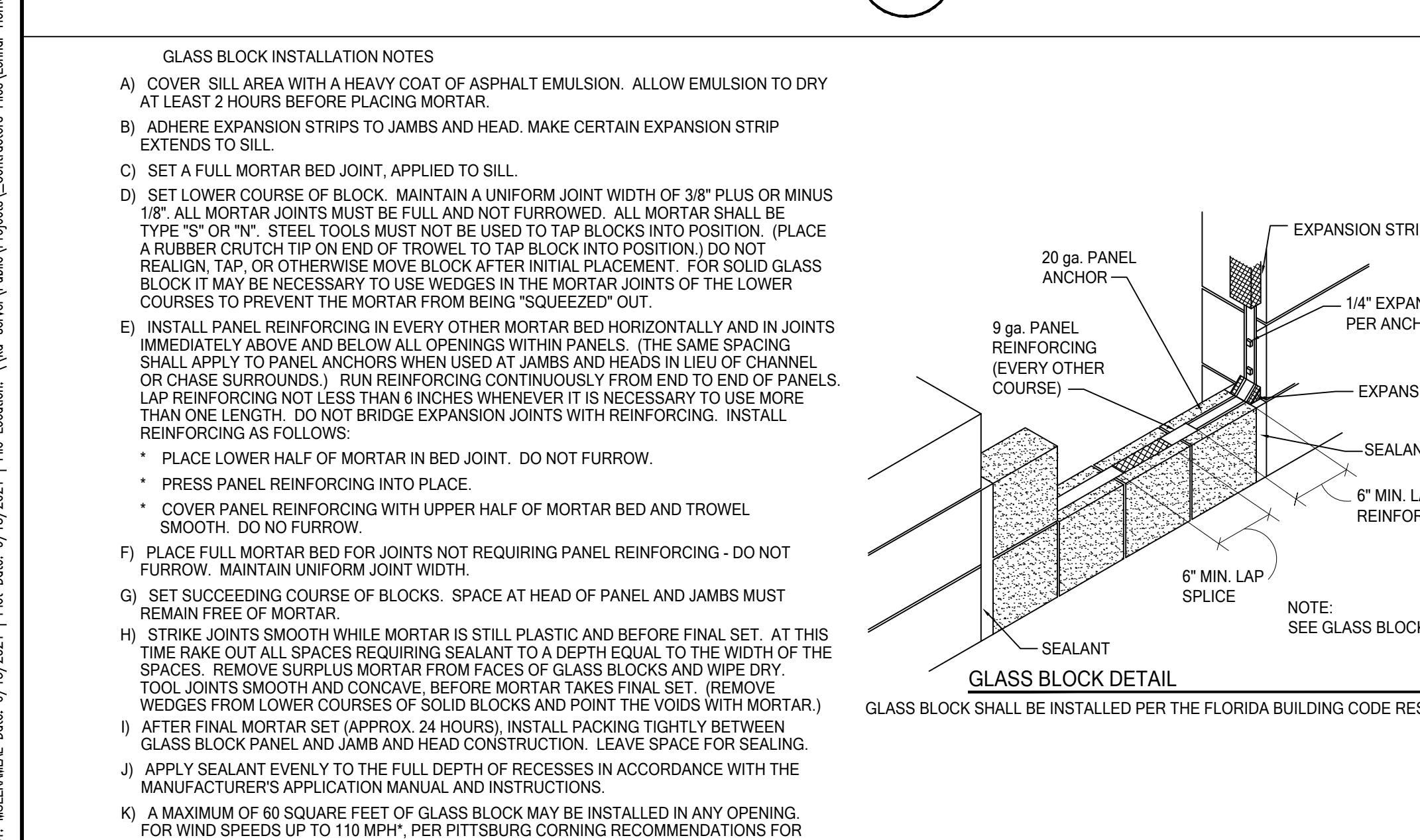
MONO TO STEMWALL FOOTING

SCALE: 3/4" = 1'-0"



SECTION @ ENTRY

SCALE: 3/4" = 1'-0"



SS

THESE DETAILS ARE GENERIC AND MEANT TO SHOW GENERAL FLASHING AND WATERPROOFING METHODS TO BE USED.

WP01 SELF-ADHERED FLASHING FLANGED WINDOW FLASHING INSTALLATION AFTER WEATHER RESISTIVE BARRIER

WP02 SELF-ADHERED FLASHING EXTERIOR DOOR WITH DECK - SECTION A

WP03 SELF-ADHERED FLASHING CEMT. FINISH SILL/ POTSHELF/ CHIMNEY SHOULDER

WP04 SELF-ADHERED FLASHING HALF ROUND WINDOW

WP05 SELF-ADHERED FLASHING EXTERIOR DOOR WITH DECK

WP06 SELF-ADHERED FLASHING INSIDE CORNER

WP07 SELF-ADHERED FLASHING DECK JOIST

WP08 SELF-ADHERED FLASHING OUTSIDE CORNER

WP09 FOUNDATION WEEP SCREED

WP10 SOFFIT/CANTILEVER

WP11 SHOWER SEAT

SELF-ADHERED FLASHING PRODUCTS DETAILS

WATER RESISTIVE BARRIERS ARE REQUIRED BEHIND STUCCO PER THE FBC RESIDENTIAL 7TH EDITION (2020)

Detail Instructions
Refer to the number marked as # in each detail that corresponds to the numbered items in the list of instructions below:

1. Install self-adhered flashing in order as shown by numbers
2. Install flashing and weather resistive barrier to form water shedding laps
3. Self-adhered flashing can be substituted for building paper
4. Split the release paper using the ripcord (Split release on demand, embedded in the adhesive layer) - for ease of installation and to minimize scoring cuts
5. Remove all release paper per standard installation instructions and adhere to substrate using a square piece of flashing material (6" x 6" Minimum)
6. Fold as shown by arrows
7. Angle of corner may vary, adjust folding of the flashing accordingly to fit tight to corner
8. Mechanically fasten as necessary

FLASHING REQUIREMENTS

R703.1 General. Exterior walls shall provide the building with a weather-resistant exterior wall envelope. The exterior wall envelope shall include flashing as described in Section R703.4.

R703.1.1 Water resistance. The exterior wall envelope shall be designed and constructed in a manner that prevents the accumulation of water within the wall assembly by providing a water-resistant barrier behind the exterior cladding as required by Section R703.2 and a means of draining to the exterior water that penetrates the exterior cladding.

R703.2 Water-resistant barrier. One layer of No. 15 asphalt felt, free from holes and breaks, complying with ASTM D226 for Type 1 felt or other approved water-resistant barrier shall be applied over studs or sheathing of all exterior walls. No. 15 asphalt felt shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches. Where joints occur, felt shall be lapped not less than 6 inches. Other approved materials shall be installed in accordance with the water-resistant barrier manufacturer's installation instructions. The No.15 asphalt felt or other approved water-resistant barrier material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1.

R703.3 Water-resistive barriers. Water-resistive barriers shall be installed as required in Section R703.2 and, where applied over wood-based sheathing, shall include a water-resistant vapor-permeable barrier with a performance at least equivalent to two layers of Grade D paper. The individual layers shall be installed independently such that each layer provides a separate continuous plane and any flashing (installed in accordance with Section R703.4) intended to drain to the water-resistant barrier is directed between the layers.

Exception: Where the water-resistant barrier that is applied over wood-based sheathing has a water resistance equal to or greater than that of 60-minute Grade D paper and is separated from the stucco by an intervening, substantially nonwater-absorbing layer or designed drainage space.

R703.4 Flashing. Approved metal flashing, vinyl flashing, self-adhered membranes and mechanically attached flexible flashings shall be applied single-fashion or in accordance with the manufacturer's instructions. Metal flashing shall be corrosion resistant. Fluid-applied membranes used as flashing shall be applied in accordance with the manufacturer's instructions. All flashing shall be applied in a manner to prevent the entry of water into the wall cavity or penetration of water to the building structural framing components. Self-adhered membranes used as flashing shall comply with AAMA 711. All exterior fenestration products shall be sealed at the juncture with the building wall with a sealant complying with AAMA 800 or ASTM C920 Class 25 Grade NS or greater for proper joint expansion and contraction, ASTM C1281, AAMA 812, or other approved standard as appropriate for the type of sealant. Fluid-applied membranes used as flashing in exterior walls shall comply with AAMA 714. The flashing shall extend to the surface of the exterior wall finish. Approved flashings shall be installed at the following locations:

1. Exterior window and door openings. Flashing at exterior window and door openings shall extend to the surface of the exterior wall finish or to the water-resistant barrier complying with Section 703.2 for subsequent drainage. Mechanically attached flexible flashings shall comply with AAMA 712. Flashing shall be sealed or sloped in such a manner as to direct water to the surface of the exterior wall finish or to the water-resistant barrier for subsequent drainage. Openings using pan flashing shall incorporate flashing or protection at the head and sides.
- 1.1. The fenestration manufacturer's installation and flashing instructions, or for applications not addressed in the fenestration manufacturer's instructions, in accordance with the flashing manufacturer's instructions. Where flashing instructions or details are not provided, pan flashing shall be installed at the sill of exterior window and door openings. Pan flashing shall be sealed or sloped in such a manner as to direct water to the surface of the exterior wall finish or to the water-resistant barrier for subsequent drainage.
- 1.2. In accordance with the flashing design or method of a registered design professional.
- 1.3. In accordance with other approved methods.
- 1.4. In accordance with FMA/AAMA 100, FMA/AAMA 200, FMA/WDMA 250, FMA/AAMA/ WDMA 300 or FMA/AAMA/WDMA 400.
- 2.2. At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings.
3. Under and at the ends of masonry, wood or metal copings and sills.
4. Continuously above all projecting wood trim.
5. Where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction.
6. At wall and roof intersections.
7. At built-in gutters.

THESE DETAILS ARE GENERIC AND MEANT TO SHOW GENERAL FLASHING AND WATERPROOFING METHODS TO BE USED.

WP12 SOFTWALL/CEMENT PLASTER

WP13 SOFTWALL/CEMENT PLASTER

WP14 SOFTWALL/CEMENT PLASTER

WP15 SOFTWALL/CEMENT PLASTER

WP16 SOFTWALL/CEMENT PLASTER

WP17 SOFTWALL/CEMENT PLASTER

WP18 SOFTWALL/CEMENT PLASTER

WP19 SOFTWALL/CEMENT PLASTER

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WP266 SOFTWALL/CEMENT PLASTER

WP267 SOFTWALL/CEMENT PLASTER

WP268 SOFTWALL/CEMENT PLASTER

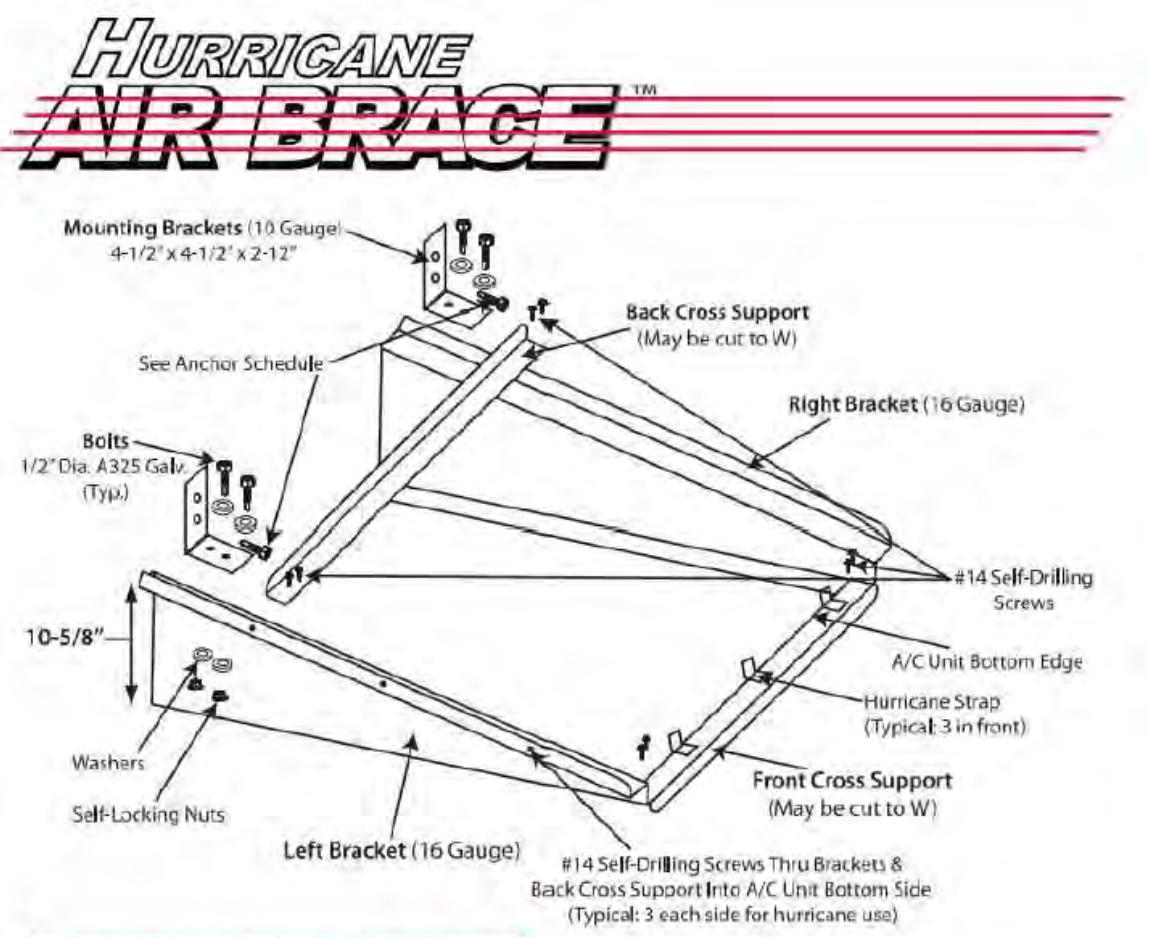
WP269 SOFTWALL/CEMENT PLASTER

WP270 SOFTWALL/CEMENT PLASTER

WP271 SOFTWALL/CEMENT PLASTER

WP272 SOFTWALL/CEMENT PLASTER

WP27



PRODUCT APPROVAL SPECIFICATION SHEET (2021)

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a

| Category/Subcategory | Manufacturer | Product Description | Approval Number(s) | Test Pressures | Exp. Date |
|--------------------------|-------------------------------|--|-----------------------|---------------------|------------|
| 1. EXTERIOR DOORS | | | | | |
| A. SWINGING | ThermaTru | Fiber-Classic and Smooth-Star (NON-IMPACT) | FL20461.1 | +67.0/-67.0 psf | 12/31/2021 |
| | ThermaTru | Fiber-Classic and Smooth-Star (IMPACT) | FL20468 | +67.0/-67.0 psf | 12/31/2021 |
| | ThermaTru | Fiber-Classic and Smooth-Star (IMPACT) | FL20470 | +80.0/-80.0 psf | 12/31/2021 |
| B. SLIDING | MI Windows and Doors | Series 420 | FL15332.1 - FL15332.5 | +40.0/-40.0 psf | 12/31/2024 |
| | PGT | Series 5570 | FL251.9 | | 4/14/2021 |
| C. SECTIONAL | Wayne-Dalton | Series 8000/8100/8200 #1105 (8X7) | FL8248.3 | +31.0/-35.0 | 12/31/2023 |
| | Wayne-Dalton | Series 8000/8100/8200 #1123 (16X7) | FL8248.10 | +30.0/-33.5 | 12/31/2023 |
| | Wayne-Dalton | Series 8000/8100/8200 #1124 (16X7) | FL8248.11 | +34.4/-38.3 | 12/31/2023 |
| D. METAL LOUVERED DRS | Curries Division of AADG, Inc | 607,707,727,747, and 847 Single & Pairs of Doors | FL11537.1 | N/A (see inst shrt) | 12/31/2025 |

INSTALLATION INFORMATION

Specific installation instructions are provided with each Hurricane Air Brace. Engineered Seal Drawing available upon request (allowable for wall apply).

Florida Department of Business & Professional Regulation
Building Codes and Standards

Product Approval Application Detail

Page 1 of 1

15/2621

PL20461.1

Products

See #

Code

Version

Type

Revision

Category

SubCategory

Item

Code

Version

Type

Revision

Category

SubCategory

FBC Crystal Reports Application Details

PLAN NAME

PA 1.1

This is a non engineered sheet
based on product approval
information located on the
State of Florida's Product
Approval web site.

LENNAR

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|---|---|----------------------------|-------------------------------------|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | Carries Division of AAGC, Inc. Category: Exterior Door Components SubCategory: Exterior Door Components Compliance Method: Certification Mark or Listing | Tony Raynor (941) 317-7013 tony.raynor@avacusec.com | UL LLC | Troy Beaton, P.E. (941) 317-6669 | 12/19/2020 | 12/01/2020 | 12/01/2020 | 12/02/2020 | Approved | PLAT1531-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|--|--|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | 800-107, 721, 747, 757, and 847 Single and Pairs of hollow metal doors | First, Second, and Unversal single and pairs of hollow metal doors | 12/04/2020 | Yes | Yes | N/A | N/A | | Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|-----------------------|--|--|--|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | Mil Windows and Doors | Brent Stilinger (941) 317-6669 bstilinger@avacusec.com | American Architectural Manufacturers Association | Steven M. Ulrich, PE (717) 317-4544 | 11/07/2020 | 11/07/2020 | 11/07/2020 | 11/07/2020 | Approved | PLAT160-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|------------------------------|-----------------------------------|--|--------------------------|-------------------------------|-----------------|-----------------| | 2 | 100-561 | 52027 Fix Frame (GUS) Single Hung | 10/09/2020 | No | Yes | N/A | N/A | | Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|----------------|---|----------------------------|--|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | PDT Industries | Jess Rosenthal (941) 317-6669 jrosen@avacusec.com | Man-Made BCCD - CER | Steven M. Ulrich, PE (717) 317-4544 | 11/06/2020 | 11/06/2020 | 11/06/2020 | 11/07/2020 | Approved | PLAT0276-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|------------------------------|-------------------------|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | HS 104 Pin and Flange Frame | Very Single Hung Window | 10/29/2020 | Yes | Yes | N/A | N/A | | Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|-----------------------|--|--|--|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | Mil Windows and Doors | Brent Stilinger (941) 317-6669 bstilinger@avacusec.com | American Architectural Manufacturers Association | Steven M. Ulrich, PE (717) 317-4544 | 10/06/2020 | 10/06/2020 | 10/06/2020 | 10/19/2020 | Approved | PLAT1531-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|------------------------------|-----------------------|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | HS 104 Pin and Flange Glass | 75x52 Insulated Glass | 10/29/2020 | No | Yes | N/A | N/A | |
| Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|-----------------------|--|--|--|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | Mil Windows and Doors | Brent Stilinger (941) 317-6669 bstilinger@avacusec.com | American Architectural Manufacturers Association | Steven M. Ulrich, PE (717) 317-4544 | 11/02/2020 | 11/02/2020 | 11/02/2020 | 11/02/2020 | Approved | PLAT1531-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|------------------------------|-----------------------|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | 105-PW | 75x52 Insulated Glass | 10/17/2020 | No | Yes | N/A | N/A | | Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|----------------|---|----------------------------|--|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | PGL Industries | Jess Rosenthal (941) 317-6669 jrosen@avacusec.com | Man-Made BCCD - VAL | Steven M. Ulrich, PE (717) 317-4544 | 11/06/2020 | 11/06/2020 | 11/06/2020 | 11/07/2020 | Approved | PLAT160-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|------------------------------|----------------------|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | 290557 Large Sliding Window | Large Sliding Window | 10/20/2020 | No | Yes | N/A | N/A | | Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|-----------------------|--|--|--|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | Mil Windows and Doors | Brent Stilinger (941) 317-6669 bstilinger@avacusec.com | American Architectural Manufacturers Association | Steven M. Ulrich, PE (717) 317-4544 | 10/06/2020 | 10/06/2020 | 10/06/2020 | 10/19/2020 | Approved | PLAT1531-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|------------------------------|-----------------------|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | 105-PW | 75x52 Insulated Glass | 10/17/2020 | No | Yes | N/A | N/A | | Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|----------------|---|----------------------------|--|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | PGL Industries | Jess Rosenthal (941) 317-6669 jrosen@avacusec.com | Man-Made BCCD - VAL | Steven M. Ulrich, PE (717) 317-4544 | 11/06/2020 | 11/06/2020 | 11/06/2020 | 11/07/2020 | Approved | PLAT160-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|------------------------------|----------------------|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | 290557 Large Sliding Window | Large Sliding Window | 10/20/2020 | No | Yes | N/A | N/A | |
| Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|------------------------------------|--|---|---|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | James Hart Building Products, Inc. | Chris Hart (800) 354-3300 chris.hart@jhbpi.com | Category: Point of Sale SubCategory: Point of Sale Compliance Method: Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer | Tony Raynor (941) 317-7013 tony.raynor@avacusec.com | 12/04/2020 | 12/04/2020 | 12/04/2020 | 12/04/2020 | Approved | PLAT1531-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|------------------------------|-----------------------|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | Campfire Leo Siding | Horizontal Leo Siding | 12/04/2020 | Yes | Yes | N/A | N/A | | Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|------------------------------------|--|---|---|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | James Hart Building Products, Inc. | Chris Hart (800) 354-3300 chris.hart@jhbpi.com | Category: Point of Sale SubCategory: Point of Sale Compliance Method: Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer | Tony Raynor (941) 317-7013 tony.raynor@avacusec.com | 12/04/2020 | 12/04/2020 | 12/04/2020 | 12/04/2020 | Approved | PLAT160-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|------------------------------|----------------------------|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | a. Acuity 275 Root, Soft | Vent or Solid Vinyl Soffit | 12/04/2020 | No | Yes | N/A | N/A | | Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|--------------|---|--|--------------------------------------|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | GAF | Nick Thompson (303) 352-2369 nick.thompson@avacusec.com | Category: Roofing SubCategory: Asphalt Shingles Compliance Method: Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer | Ryan J. Knop, P.E. (813) 767-0555 | 10/09/2020 | 10/09/2020 | 10/09/2020 | 10/10/2020 | Approved | PLAT1531-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|------------------------------|----------------------------|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | a. Acuity 275 Root, Soft | Vent or Solid Vinyl Soffit | 12/04/2020 | No | Yes | N/A | N/A | | Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|-----------------------------|--|--|---|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | TAMCO Roof Underlays (HVAC) | John W. Koeniger, P.E. (561) 772-0224 | Category: Roofing SubCategory: Asphalt Shingles Compliance Method: Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer | Kent E. Dohle (417) 834-6444 kent.dohle@gmail.com | 09/06/2020 | 09/06/2020 | 09/06/2020 | 09/10/2020 | Approved | PLAT160-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|---------------------------------|--|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | TAMCO Root Underlays (HVAC) | Root Underlays for use in FBC HVAC | 10/17/2020 | No | Yes | N/A | N/A | | 2 | TAMCO Root Underlays (Non-HVAC) | Root Underlays for use in FBC Non-HVAC | 10/17/2020 | No | Yes | N/A | N/A | |
| Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|--|---|---|-----------------------------------|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | L.V. Thompson, Inc./S.A. Thompson Architectural Products Company (TAMCO) | Tony Raynor (941) 317-5456 tony.raynor@avacusec.com | Category: Point of Sale SubCategory: Point of Sale Compliance Method: Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer | Zachary A. Real (205) 242-0000 | 09/17/2020 | 09/16/2020 | 09/25/2020 | 10/15/2020 | Approved | PLAT1531-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use Outside NVOC | Impact Required | Design Pressure | |-------|--|--|--|--------------------------|-------------------------------|-----------------|-----------------| | 1 | TAMCO File Top Off-Ridge Vent with Baffle for Tile | 26 pc. static root-ventilator with baffle | 09/09/2020 | Yes | Yes | N/A | N/A | | 2 | TAMCO File Top Off-Ridge Vent with Baffle for Metal | 26 pc. static root-ventilator with integrated baffle | 09/09/2020 | Yes | Yes | N/A | N/A | | 3 | TAMCO Round Top Off-Ridge Vent with Baffle for Tile | 26 pc. static root-ventilator with baffle | 09/09/2020 | Yes | Yes | N/A | N/A | | 4 | TAMCO Round Top Off-Ridge Vent with Baffle for Metal | 26 pc. static root-ventilator with integrated baffle | 09/09/2020 | Yes | Yes | N/A | N/A | | Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail | Type | Code Version | Manufacturer | Contact | Entity or Broker & License | Validated By | Date Validated | Date Submitted | Date Pending FBC Approval | Date Approved | Status | |----------|--------------|-------------------|---|---|--|----------------|----------------|---------------------------|---------------|----------| | Revision | 2020 | All Products Inc. | David A. Johnson (800) 354-5240 djohnson@avacusec.com | Category: Point of Sale SubCategory: Point of Sale Compliance Method: Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer | John W. Koeniger, P.E. (561) 772-0224 | 09/07/2020 | 09/05/2020 | 10/04/2020 | 10/16/2020 | Approved | PLAT160-RH Products | Seq # | Product Model Number or Name | Product Description | Quality Assurance Contract Evaluation Date | Approved for Use in NVOC | Approved for Use | |-------|------------------------------|---------------------|--|--------------------------|------------------| |-------|------------------------------|---------------------|--|--------------------------|------------------| |

SIMPSON Simpson Strong-Tie 2020 FBC Approved Products

[Simpson Tie](#) For additional information regarding Florida's Statewide Product Approval System and Miami-Dade County Notice of Acceptance (NOA), [CLICK HERE](#)

Updated 12/09/2020
For additional information regarding Florida's Statewide Product Approval System and Miami-Dade County Notice of Acceptance (NOA), [CLICK HERE](#)

| Seq # | Product Model Number or Name | Product Description |
|-------|---|---|
| 1 | Titen Stainless Steel Concrete & Masonry Screw (TTN-SS) | 1/4" diameter Titen stainless steel masonry screw. |
| 2 | SD917-SD912, SD1012, SD1012 | Profile Description Outdoor Acetate Connector Screw String Drive SD Connector Screw |
| 3 | SD917-SD92, SD92-125B | Strong-Drive Conductor SS Screw |
| 4 | SDC72114, SDC72134, SDC72164, SDC72196, SDC72200, SDCP2208, SDCP22104, SDCP22114, SDCP22134, SDCP22164, SDCP22196, SDCP22200, SDCP22208 | Strong-Drive SDCP Timber-CP Screw |
| 5 | SDCP22100, SDCP22134, SDCP22164, SDCP22196, SDCP22200, SDCP22208 | Strong-Drive SDCP Timber-CP Screw |
| 6 | SDH27400, SDH27614, SDH27616, SDH27618 | Strong-Drive SDHR Combo-Header Screw |
| 7 | SDH274112, SDH27414, SDH27416, SDH27418, SDH27420, SDH27422, SDH27424, SDH27426 | Strong-Drive SDHR Heavy-Duty Connector Screw |
| 8 | SDH274138, SDH27420, SDH27422, SDH27424, SDH27426, SDH27428 | Strong-Drive SDHS Heavy-Duty Connector SS Screw |
| 9 | SDW2718, SDW2719, SDW2724, SDW2726, SDW2728 | Strong-Drive SDFW Floor-Poor Screw |

| Seq # | Product Model Number or Name | Product Description |
|-------|---|--|
| 1 | ATR26, ATR26-1, ATR26-2, ATR26-3, ATR26-4, ATR26-5 | Threaded Rods Tension Rods Take-Up Device |
| 2 | BTU2, BTU2-1, BTU2-2, BTU2-3, BTU2-4, BTU2-5 | Bearing Plates Brackets Copper Nuts Coupling Take-Up Device |
| 3 | BTU2-2, BTU2-3, BTU2-4, BTU2-5, BTU2-6, BTU2-7, BTU2-8 | Coupling Take-Up Device |
| 4 | CNV55, CTUD65, CTUD68, CTUD75, CTUD76, CTUD77, CTUD67, CTUD68, CTUD69, CTUD70, CTUD71 | Heavy-Hot Nuts |
| 5 | HTD2, HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Ratcheting Take-Up Device |
| 6 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Take-Up Device |
| 7 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Take-Up Rod Run Tiedown System |
| 8 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 1/2" Uplift Rod Run Tiedown System |
| 9 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 5/8" Uplift Rod Run Tiedown System |
| 10 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 3/4" Uplift Rod Run Tiedown System |

| Seq # | Product Model Number or Name | Product Description |
|-------|--|------------------------------------|
| 1 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Hold-down |
| 2 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Hold-down |
| 3 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Strap-style pull-in anchor |
| 4 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Strap-style hold-down |
| 5 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Foundation anchor |
| 6 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Heavy-Hot Nut |
| 7 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Ratcheting Take-Up Device |
| 8 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Take-Up Device |
| 9 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Take-Up Rod Run Tiedown System |
| 10 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 1/2" Uplift Rod Run Tiedown System |
| 11 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 5/8" Uplift Rod Run Tiedown System |
| 12 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 3/4" Uplift Rod Run Tiedown System |

| Seq # | Product Model Number or Name | Product Description |
|-------|--|------------------------------------|
| 1 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Hold-down |
| 2 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Hold-down |
| 3 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Strap-style pull-in anchor |
| 4 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Strap-style hold-down |
| 5 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Foundation anchor |
| 6 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Heavy-Hot Nut |
| 7 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Ratcheting Take-Up Device |
| 8 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Take-Up Device |
| 9 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Take-Up Rod Run Tiedown System |
| 10 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 1/2" Uplift Rod Run Tiedown System |
| 11 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 5/8" Uplift Rod Run Tiedown System |
| 12 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 3/4" Uplift Rod Run Tiedown System |

| Seq # | Product Model Number or Name | Product Description |
|-------|--|------------------------------------|
| 1 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Hold-down |
| 2 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Hold-down |
| 3 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Strap-style pull-in anchor |
| 4 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Strap-style hold-down |
| 5 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Foundation anchor |
| 6 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Heavy-Hot Nut |
| 7 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Ratcheting Take-Up Device |
| 8 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Take-Up Device |
| 9 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Take-Up Rod Run Tiedown System |
| 10 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 1/2" Uplift Rod Run Tiedown System |
| 11 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 5/8" Uplift Rod Run Tiedown System |
| 12 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 3/4" Uplift Rod Run Tiedown System |

| Seq # | Product Model Number or Name | Product Description |
|-------|--|------------------------------------|
| 1 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Hold-down |
| 2 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Hold-down |
| 3 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Strap-style pull-in anchor |
| 4 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Strap-style hold-down |
| 5 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Foundation anchor |
| 6 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Heavy-Hot Nut |
| 7 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Ratcheting Take-Up Device |
| 8 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Take-Up Device |
| 9 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Take-Up Rod Run Tiedown System |
| 10 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 1/2" Uplift Rod Run Tiedown System |
| 11 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 5/8" Uplift Rod Run Tiedown System |
| 12 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | 3/4" Uplift Rod Run Tiedown System |

| Seq # | Product Model Number or Name | Product Description |
|-------|--|----------------------------|
| 1 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Hold-down |
| 2 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Hold-down |
| 3 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Strap-style pull-in anchor |
| 4 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Strap-style hold-down |
| 5 | HTD2-1, HTD2-2, HTD2-3, HTD2-4, HTD2-5, HTD2-6, HTD2-7, HTD2-8 | Foundation anchor |
| | | |

LENNAR

Hurricane Shutters

Base Product Approval Sheet

PLAN NAME

SHEET NO.

SH 1.0

This is a non engineered sheet based on product approval information located on the State of Florida's Product Approval web site.

TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY

WALTER A. TILLIT, JR., P.E.
7/28/2020
FLA.License No. 88079

PRODUCT EVALUATION REPORT

REPORT NO.: 20-0728.01
DATE: July 28, 2020
PRODUCT CATEGORY: Shutters
PRODUCT SUB-CATEGORY: Storm Panels
PRODUCT NAME: 20 GAGE GALVANIZED STEEL STORM PANEL
MANUFACTURER: Global Protection Products LLC,
480 S.W. 51 Street
Miami, Florida 33134

1. PURPOSE OF EVALUATION:
This is a Product Evaluation Report issued by Walter A. Tillit, Jr., P.E. (System ID # 1906) to the Global Protection Products, LLC, Rule Chapter No. 61G20-3, Method 1D of the Florida Department of Business and Professional Regulation.

This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2020 Seventh Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

This Product Evaluation Report shall be subject to review and revision in case of a Building Code change that may affect its limitations and conditions

2. EVIDENCE SUBMITTED:
2.1 PRODUCT EVALUATION DOCUMENT (P.E.D.):
Drawing No. 20-176 titled "20 GAGE GALVANIZED STEEL STORM PANEL", sheets 1 thru 20 of which prepared by Tileco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.; dated 07/28/2020. This drawing is an integral part of this Evaluation Report.

2.2 TEST REPORTS:
Large missile impact and fatigue load tests were performed under Protocols TAS 201, 203 as per section 1628 of the Florida Building Code. Uniform static loads as per TAS 201.1 and TAS 203.1 were applied by Hurricane Engineering & Testing Lab, Inc. Test results are provided by Hurricane Engineering & Testing Lab, Inc. Reports # 20-176 dated 07/28/2020, # 20-176 dated 07/28/2020, #96-T30 dated 09/16/1998 witnessed by Gilbert Diamond, P.E. and Report No. P.E., Fenestration Testing Laboratory, Inc. reports # 2032 dated 04/16/1998 and # 2110 dated 10/06/1998 witnessed by Gilbert Diamond, P.E. and Report No. P.E., and Henry Hattam, P.E.

Tensile test report No. 9CM-197 by QC Metallurgical, Inc., dated March 13, 2009, signed and sealed by Frank Grate, P.E.

2.3 STRUCTURAL ENGINEERING CALCULATIONS:
On 20 Gage Galvanized Steel Storm Panel for maximum panel length vs. design wind load, as well as maximum anchor spacing vs. design wind load and panel length based on rational and comparative analysis, and in accordance with section 1616 of the Florida Building Code. Calculations prepared by Tileco, Inc., dated 07/28/2020 and 03/2015, signed and sealed by Walter A. Tillit, Jr., P.E.

2.4 MISSILE IMPACT RESISTANCE:
20 Gage Galvanized Steel Storm Panel has been verified to sustain wind pressure. Maximum panel length shall be as indicated on sheets 8, 10, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 & 24 of Product Evaluation Document (P.E.D.), drawing No. 20-176. Maximum Anchor Spacing shall be as indicated on sheets 8, 9, 10, 11, 14, 15, 17, 18, 19, 20 and 23 of Product Evaluation Document (P.E.D.), drawing No. 20-176.

2.5 INSTALLATION:
Installation shall be performed strictly in accordance with details indicated on sheets 3 thru 7, 10 thru 23, 24 and 26 of, Product Evaluation Document (P.E.D.), drawing No. 20-176. Preparation to glass shall be as indicated on sheets 8, 14, 16, 20 and 26 of, Product Evaluation Document (P.E.D.), drawing No. 20-176.

2.6 EVIDENCE SUBMITTED:
Drawing No. 20-176 titled "20 GAGE GALVANIZED STEEL STORM PANEL", sheets 1 thru 18 of which prepared by Tileco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.; dated 07/28/2020. This drawing is an integral part of this Evaluation Report.

2.7 LIMITATIONS AND CONDITIONS OF USE:
1. Shall be strictly in compliance with General Notes No. 1 thru 14, indicated on sheet 1 or 26, as well as General Notes # 1 thru 4 and 11 thru 16, indicated on sheet 21 or 26 of Product Evaluation Document (P.E.D.), drawing No. 20-176 prepared by Tileco, Inc., and signed and sealed by Walter A. Tillit, Jr., P.E.

2. Product may be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 1620.2 of the Florida Building Code.

3. Product shall only be installed into poured concrete, concrete block, and wood frame structures.

2.8 MISCELLANEOUS:
Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tileco, Inc. (Florida CA-0006719).

2.9 SIGNATURES:
WALTER A. TILLIT, JR., P.E.
7/28/2020
FLA.License No. 88079

PRODUCT EVALUATION REPORT

REPORT NO.: 20-0728.01
DATE: July 28, 2020
PRODUCT CATEGORY: Shutters
PRODUCT SUB-CATEGORY: Storm Panels
PRODUCT NAME: 20 GAGE GALVANIZED STEEL STORM PANEL
MANUFACTURER: Global Protection Products LLC,
480 S.W. 51 Street
Miami, Florida 33134

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:
Shall be strictly in accordance with General Notes and Components indicated on sheet 1 and 22 of, Product Evaluation Document (P.E.D.), drawing No. 20-176. Anchor specifications shall be as indicated on sheets 1, 7 and 21 of 26, of Product Evaluation Document (P.E.D.), drawing No. 20-176.

7. LIMITATIONS AND CONDITIONS OF USE:
1. Shall be strictly in compliance with General Notes No. 1 thru 14, indicated on sheet 1 or 26, as well as General Notes # 1 thru 4 and 11 thru 16, indicated on sheet 21 or 26 of Product Evaluation Document (P.E.D.), drawing No. 20-176 prepared by Tileco, Inc., and signed and sealed by Walter A. Tillit, Jr., P.E.

2. Product may be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 1620.2 of the Florida Building Code.

3. Product shall only be installed into poured concrete, concrete block, and wood frame structures.

8. TEST REPORTS:
Large missile impact and fatigue load tests were performed under SSTD 12-99 standard as per section 1609.1.2 of the Florida Building Code. Uniform static loads as per SSTD 12-99, per S.T.M. Drawing No. 20-176, dated 07/28/2020, by Hurricane Engineering & Testing Lab of South Florida, Inc. Test results are provided by Hurricane Engineering & Testing Lab, Inc. Reports # 20-176 dated 07/28/2020, # 20-176 dated 07/28/2020, #96-T30 dated 09/16/1998 witnessed by Gilbert Diamond, P.E. and Report No. P.E., Fenestration Testing Laboratory, Inc. reports # 2032 dated 04/16/1998 and # 2110 dated 10/06/1998 witnessed by Gilbert Diamond, P.E. and Report No. P.E., and Henry Hattam, P.E.

Tensile test report No. 9CM-197 by QC Metallurgical, Inc., dated March 13, 2009, signed and sealed by Frank Grate, P.E.

9. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:
Shall be strictly in accordance with General Notes and Components indicated on sheet 1 and 2 of 18, of Product Evaluation Document (P.E.D.), drawing No. 20-175.

10. LIMITATIONS AND CONDITIONS OF USE:
1. Shall be strictly in compliance with General Notes No. 1 thru 14, indicated on sheet 1 or 18 of Product Evaluation Document (P.E.D.), drawing No. 20-175 prepared by Tileco, Inc., and signed and sealed by Walter A. Tillit, Jr., P.E.

2. Product shall not be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 1620.2 of the Florida Building Code.

3. Product shall only be installed into poured concrete, concrete block, and wood frame structures.

11. MISCELLANEOUS:
Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tileco, Inc. (Florida CA-0006719).

12. SIGNATURES:
WALTER A. TILLIT, JR., P.E.
7/28/2020
FLA.License No. 88079

PRODUCT EVALUATION REPORT

REPORT NO.: 20-0728.01
DATE: July 28, 2020
PRODUCT CATEGORY: Shutters
PRODUCT SUB-CATEGORY: Storm Panels
PRODUCT NAME: 24 GAGE GALVANIZED STEEL STORM PANEL
MANUFACTURER: Global Protection Products, LLC
480 S.W. 51 Street
Miami, Florida 33134

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:
Shall be strictly in accordance with General Notes and Components indicated on sheet 1 and 22 of, Product Evaluation Document (P.E.D.), drawing No. 20-176. Anchor specifications shall be as indicated on sheets 1, 7 and 21 of 26, of Product Evaluation Document (P.E.D.), drawing No. 20-176.

7. LIMITATIONS AND CONDITIONS OF USE:
1. Shall be strictly in compliance with General Notes No. 1 thru 14, indicated on sheet 1 or 26, as well as General Notes # 1 thru 4 and 11 thru 16, indicated on sheet 21 or 26 of Product Evaluation Document (P.E.D.), drawing No. 20-176 prepared by Tileco, Inc., and signed and sealed by Walter A. Tillit, Jr., P.E.

2. Product may be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 1620.2 of the Florida Building Code.

3. Product shall only be installed into poured concrete, concrete block, and wood frame structures.

8. TEST REPORTS:
Large missile impact test report No. 9CM-198 by QC Metallurgical, Inc., dated March 13, 2009, signed and sealed by Frank Grate, P.E., per ASTM E-8 and Tensile Test as per CC-1000, per S.T.M. Drawing No. 20-176, dated 07/28/2020, by Global Protection Products, LLC, dated 07/28/2020 and 08/27/13 (for this evaluation), signed and sealed by Julio E. Gonzalez, P.E.

Tensile test report No. 9CM-198 by QC Metallurgical, Inc., dated March 13, 2009, signed and sealed by Frank Grate, P.E., per ASTM E-8 and Tensile Test as per CC-1000, per S.T.M. Drawing No. 20-176, dated 07/28/2020, by Global Protection Products, LLC, dated 07/28/2020 and 08/27/13 (for this evaluation), signed and sealed by Julio E. Gonzalez, P.E.

9. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:
Shall be strictly in accordance with General Notes and Components indicated on sheet 1 and 2 of 18, of Product Evaluation Document (P.E.D.), drawing No. 20-175.

10. LIMITATIONS AND CONDITIONS OF USE:
1. Shall be strictly in compliance with General Notes No. 1 thru 14, indicated on sheet 1 or 18 of Product Evaluation Document (P.E.D.), drawing No. 20-175 prepared by Tileco, Inc., and signed and sealed by Walter A. Tillit, Jr., P.E.

2. Product shall not be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 1620.2 of the Florida Building Code.

3. Product shall only be installed into poured concrete, concrete block, and wood frame structures.

11. MISCELLANEOUS:
Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tileco, Inc. (Florida CA-0006719).

12. SIGNATURES:
WALTER A. TILLIT, JR., P.E.
7/28/2020
FLA.License No. 88079

PRODUCT EVALUATION REPORT

REPORT NO.: 20-0727.02
DATE: July 27, 2020
PRODUCT CATEGORY: Shutters
PRODUCT SUB-CATEGORY: Storm Panels
PRODUCT NAME: 24 GAGE GALVANIZED STEEL STORM PANEL
MANUFACTURER: Global Protection Products, LLC
480 S.W. 51 Street
Miami, Florida 33134

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:
Shall be strictly in accordance with General Notes and Components indicated on sheet 1 and 22 of, Product Evaluation Document (P.E.D.), drawing No. 20-176. Anchor specifications shall be as indicated on sheets 1, 7 and 21 of 26, of Product Evaluation Document (P.E.D.), drawing No. 20-176.

7. LIMITATIONS AND CONDITIONS OF USE:
1. Shall be strictly in compliance with General Notes No. 1 thru 14, indicated on sheet 1 or 26, as well as General Notes # 1 thru 4 and 11 thru 16, indicated on sheet 21 or 26 of Product Evaluation Document (P.E.D.), drawing No. 20-176 prepared by Tileco, Inc., and signed and sealed by Walter A. Tillit, Jr., P.E.

2. Product may be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 1620.2 of the Florida Building Code.

3. Product shall only be installed into poured concrete, concrete block, and wood frame structures.

8. TEST REPORTS:
Large missile impact test report No. 9CM-198 by QC Metallurgical, Inc., dated March 13, 2009, signed and sealed by Frank Grate, P.E., per ASTM E-8 and Tensile Test as per CC-1000, per S.T.M. Drawing No. 20-176, dated 07/28/2020, by Global Protection Products, LLC, dated 07/28/2020 and 08/27/13 (for this evaluation), signed and sealed by Julio E. Gonzalez, P.E.

Tensile test report No. 9CM-198 by QC Metallurgical, Inc., dated March 13, 2009, signed and sealed by Frank Grate, P.E., per ASTM E-8 and Tensile Test as per CC-1000, per S.T.M. Drawing No. 20-176, dated 07/28/2020, by Global Protection Products, LLC, dated 07/28/2020 and 08/27/13 (for this evaluation), signed and sealed by Julio E. Gonzalez, P.E.

9. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:
Shall be strictly in accordance with General Notes and Components indicated on sheet 1 and 2 of 18, of Product Evaluation Document (P.E.D.), drawing No. 20-175.

10. LIMITATIONS AND CONDITIONS OF USE:
1. Shall be strictly in compliance with General Notes No. 1 thru 14, indicated on sheet 1 or 18 of Product Evaluation Document (P.E.D.), drawing No. 20-175 prepared by Tileco, Inc., and signed and sealed by Walter A. Tillit, Jr., P.E.

2. Product shall not be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 1620.2 of the Florida Building Code.

3. Product shall only be installed into poured concrete, concrete block, and wood frame structures.

11. MISCELLANEOUS:
Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tileco, Inc. (Florida CA-0006719).

12. SIGNATURES:
WALTER A. TILLIT, JR., P.E.
7/27/2020
FLA.License No. 88079

PRODUCT EVALUATION REPORT

REPORT NO.: 20-0727.02
DATE: July 27, 2020
PRODUCT CATEGORY: Shutters
PRODUCT SUB-CATEGORY: Storm Panels
PRODUCT NAME: 24 GAGE GALVANIZED STEEL STORM PANEL
MANUFACTURER: Global Protection Products, LLC
480 S.W. 51 Street
Miami, Florida 33134

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:
Shall be strictly in accordance with General Notes and Components indicated on sheet 1 and 22 of, Product Evaluation Document (P.E.D.), drawing No. 20-176. Anchor specifications shall be as indicated on sheets 1, 7 and 21 of 26, of Product Evaluation Document (P.E.D.), drawing No. 20-176.

7. LIMITATIONS AND CONDITIONS OF USE:
1. Shall be strictly in compliance with General Notes No. 1 thru 14, indicated on sheet 1 or 26, as well as General Notes # 1 thru 4 and 11 thru 16, indicated on sheet 21 or 26 of Product Evaluation Document (P.E.D.), drawing No. 20-176 prepared by Tileco, Inc., and signed and sealed by Walter A. Tillit, Jr., P.E.

2. Product may be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 1620.2 of the Florida Building Code.

3. Product shall only be installed into poured concrete, concrete block, and wood frame structures.

8. TEST REPORTS:
Large missile impact test report No. 9CM-198 by QC Metallurgical, Inc., dated March 13, 2009, signed and sealed by Frank Grate, P.E., per ASTM E-8 and Tensile Test as per CC-1000, per S.T.M. Drawing No. 20-176, dated 07/28/2020, by Global Protection Products, LLC, dated 07/28/2020 and 08/27/13 (for this evaluation), signed and sealed by Julio E. Gonzalez, P.E.

Tensile test report No. 9CM-198 by QC Metallurgical, Inc., dated March 13, 2009, signed and sealed by Frank Grate, P.E., per ASTM E-8 and Tensile Test as per CC-1000, per S.T.M. Drawing No. 20-176, dated 07/28/2020, by Global Protection Products, LLC, dated 07/28/2020 and 08/27/13 (for this evaluation), signed and sealed by Julio E. Gonzalez, P.E.

9. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:
Shall be strictly in accordance with General Notes and Components indicated on sheet 1 and 2 of 18, of Product Evaluation Document (P.E.D.), drawing No. 20-175.

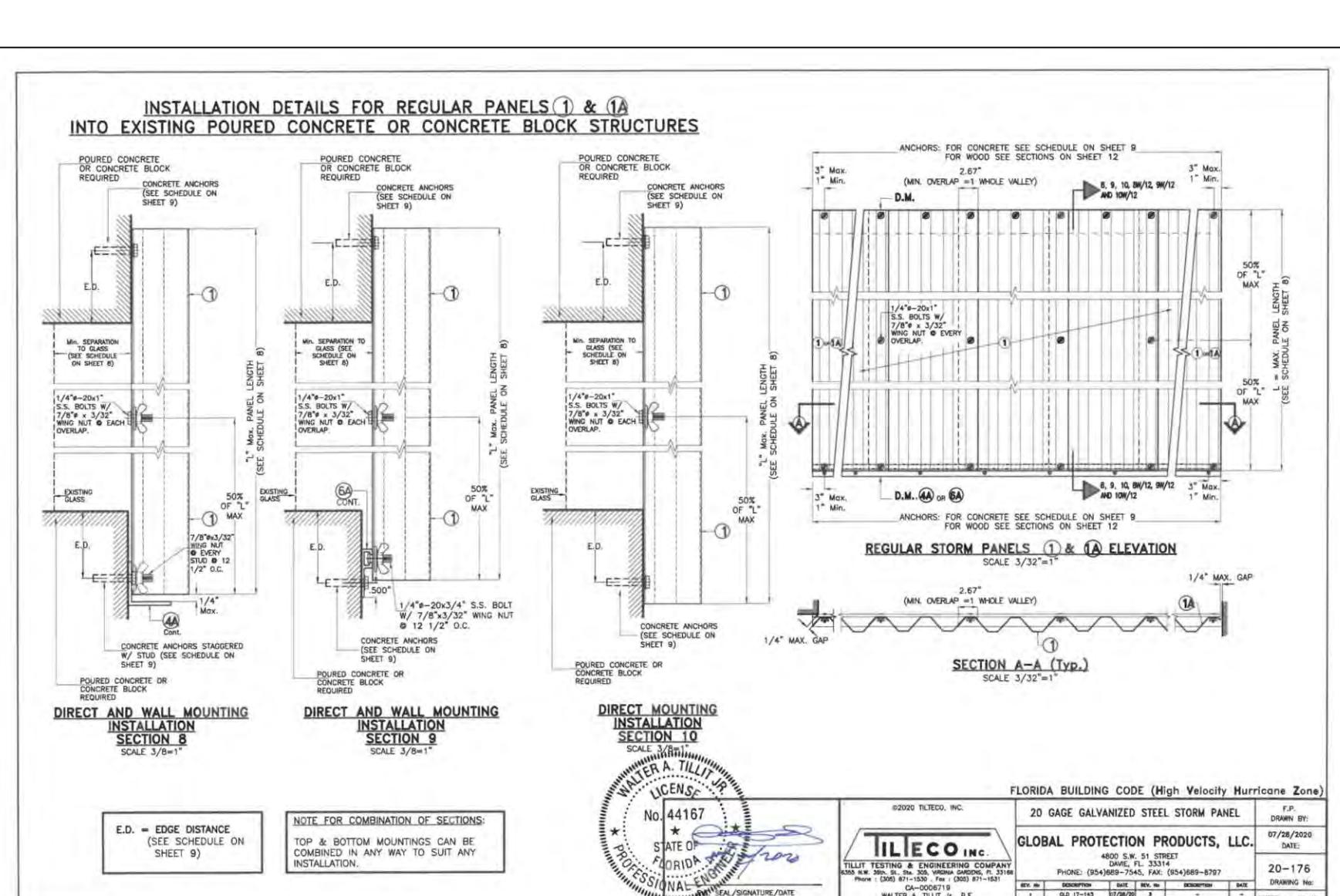
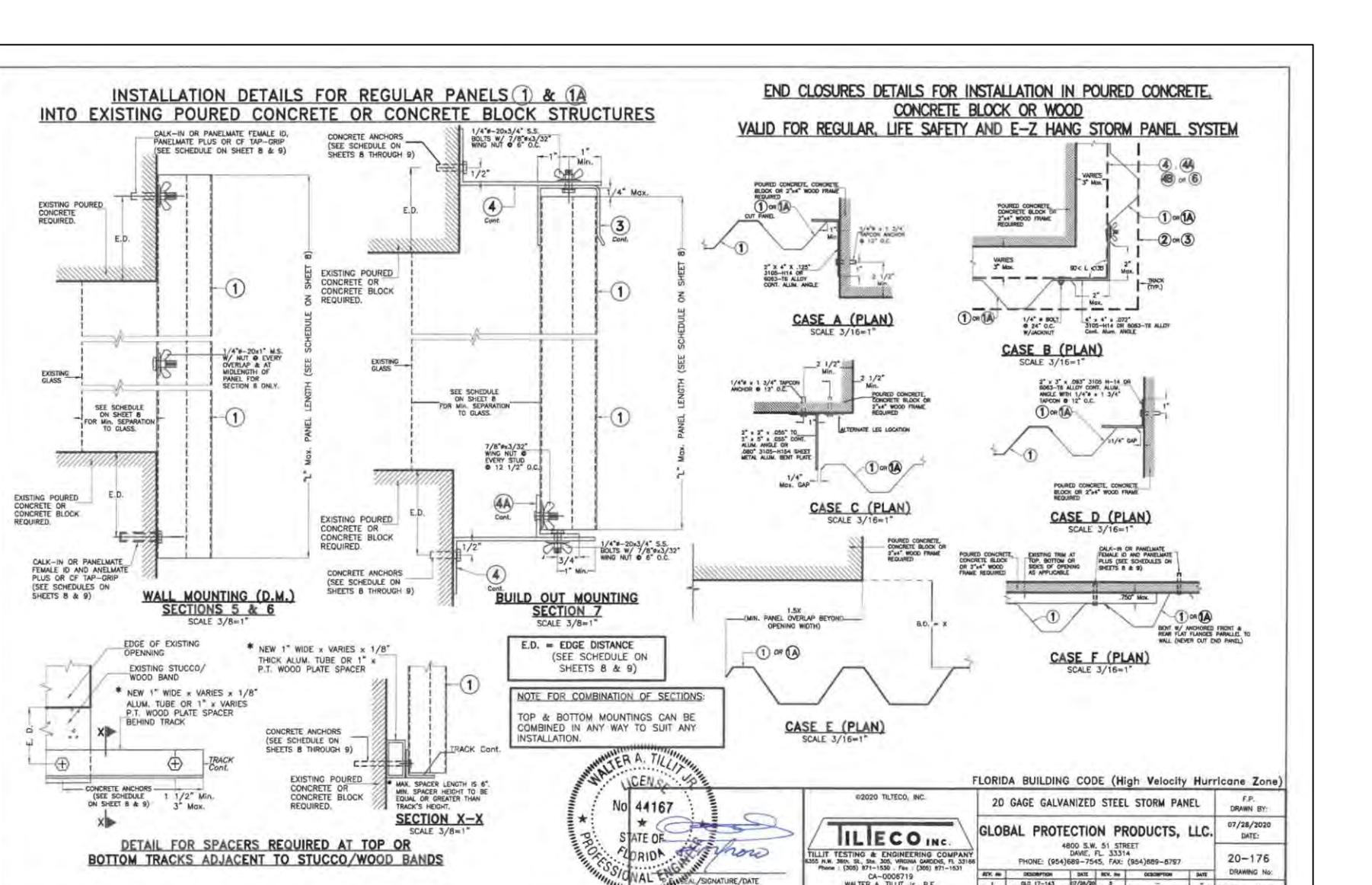
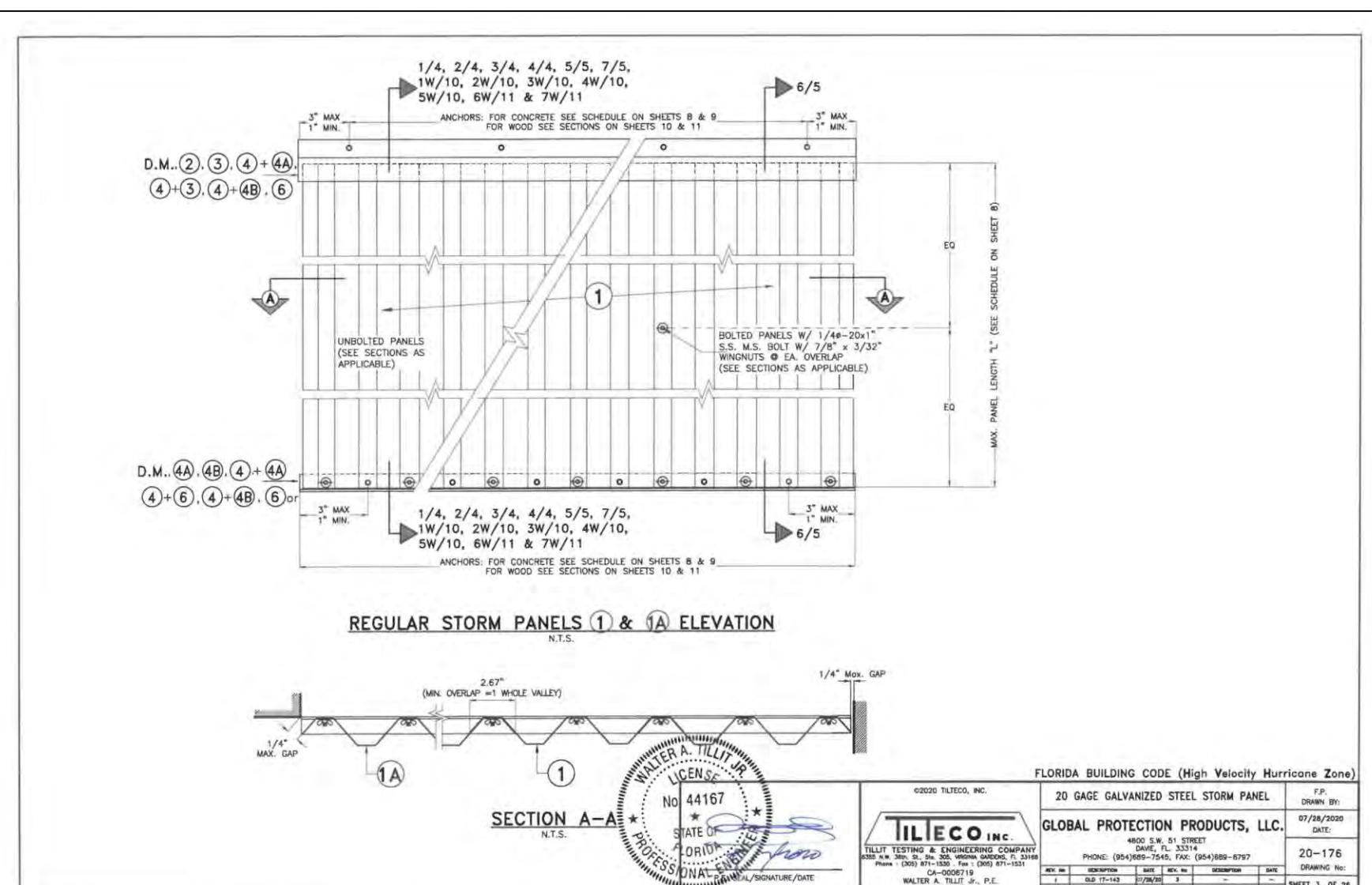
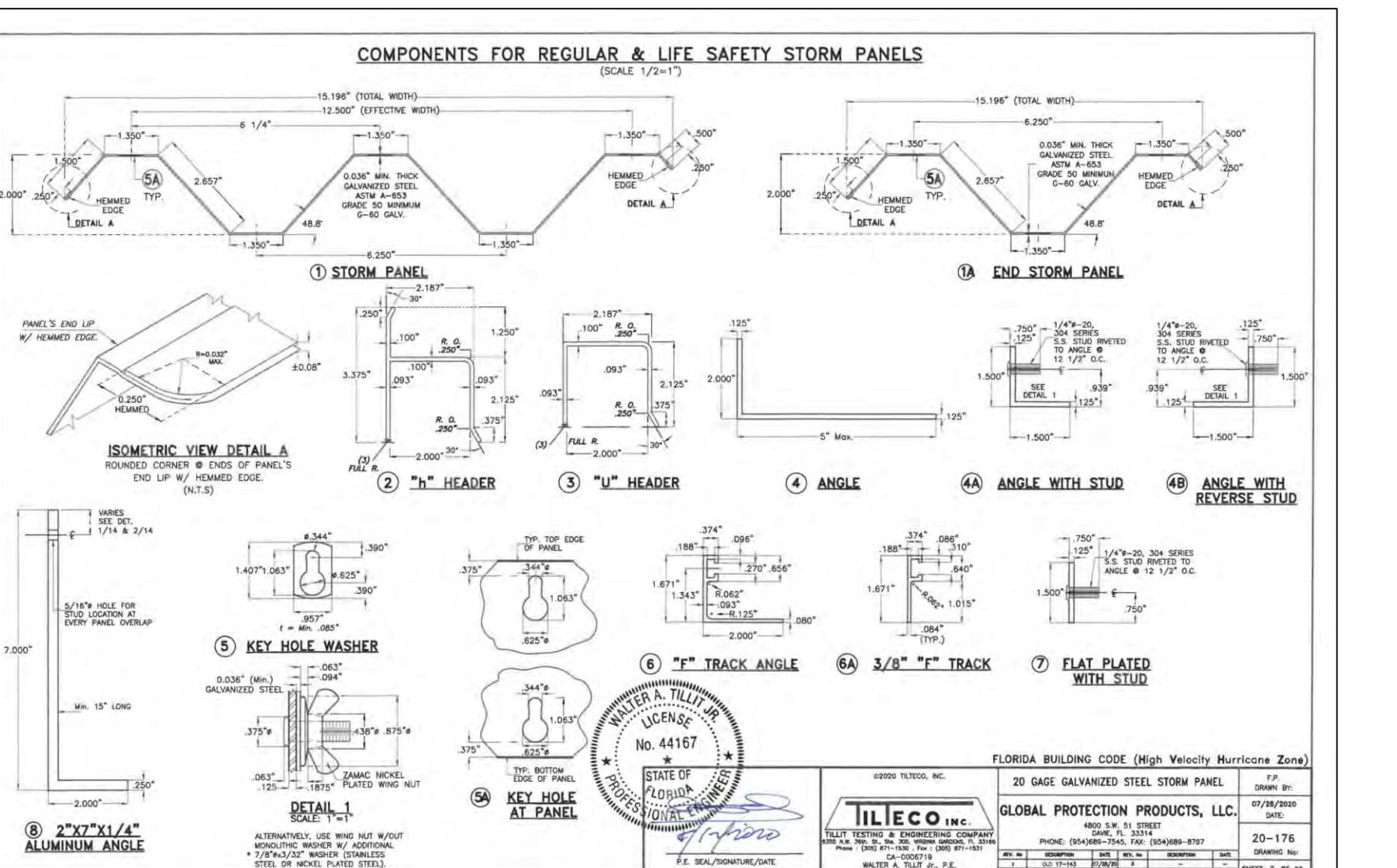
10. LIMITATIONS AND CONDITIONS OF USE:
1. Shall be strictly in compliance with General Notes No. 1 thru 14, indicated on sheet 1 or 18 of Product Evaluation Document (P.E.D.), drawing No. 20-175 prepared by Tileco, Inc., and signed and sealed by Walter A. Tillit, Jr., P.E.

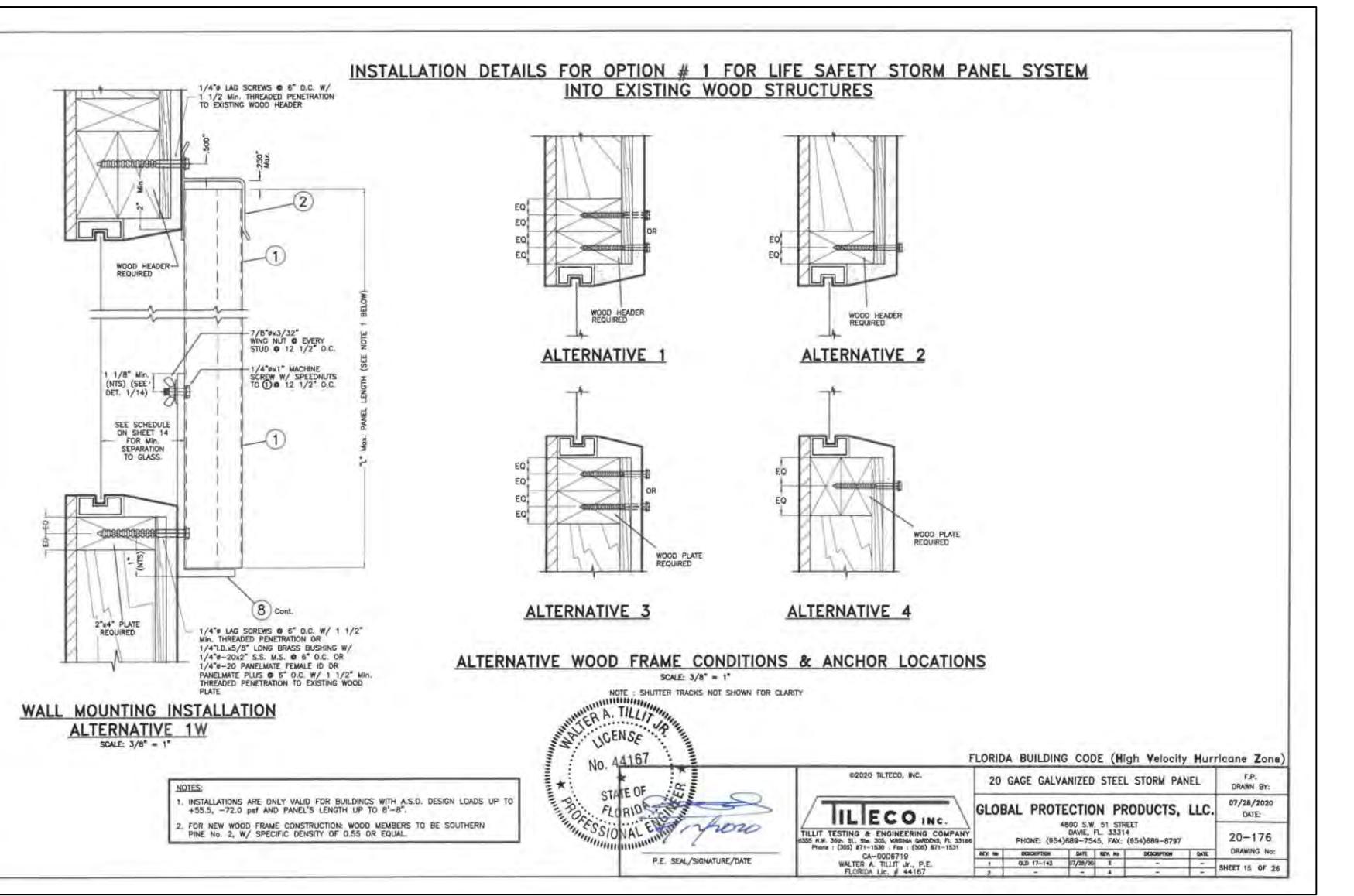
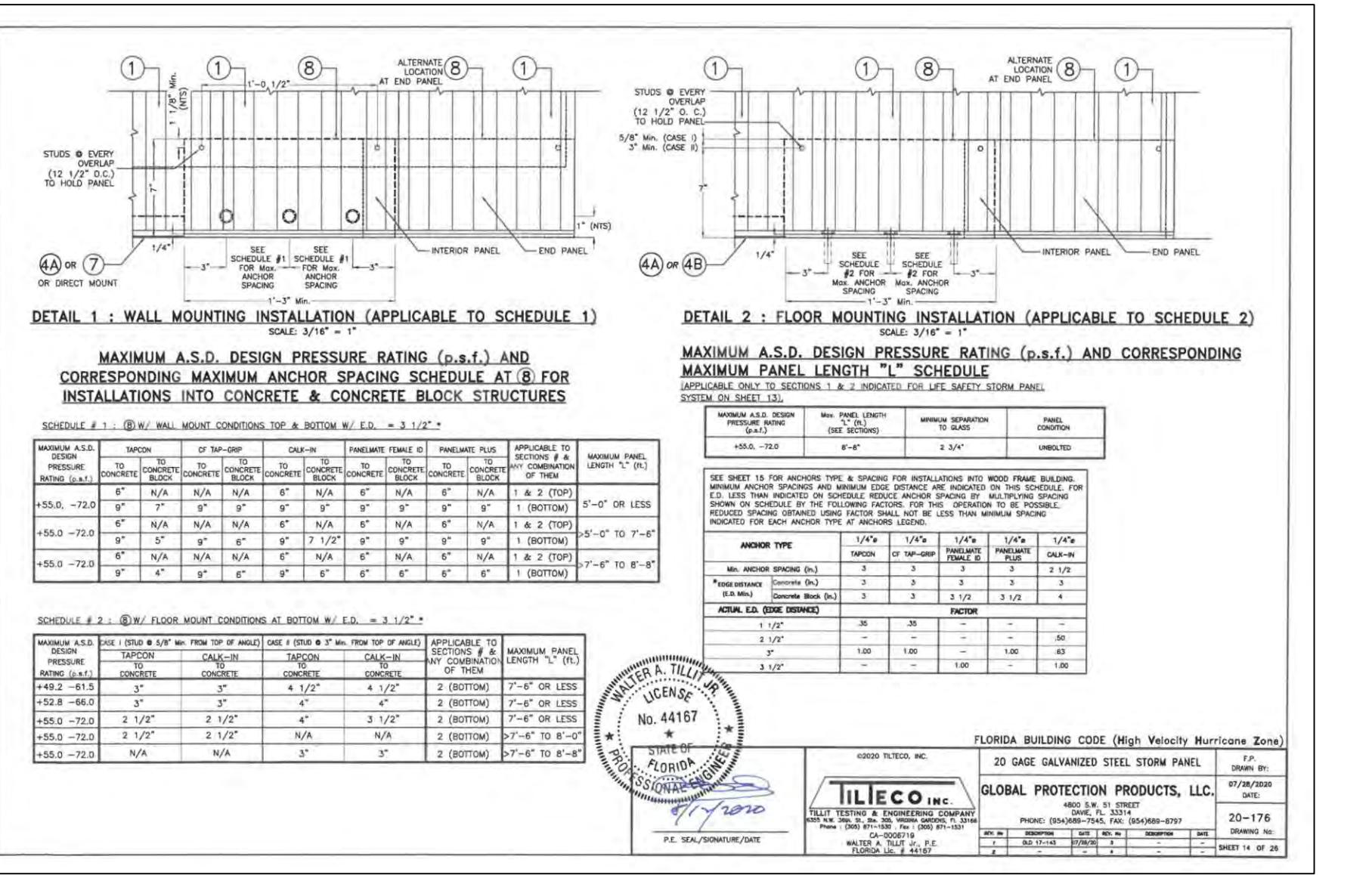
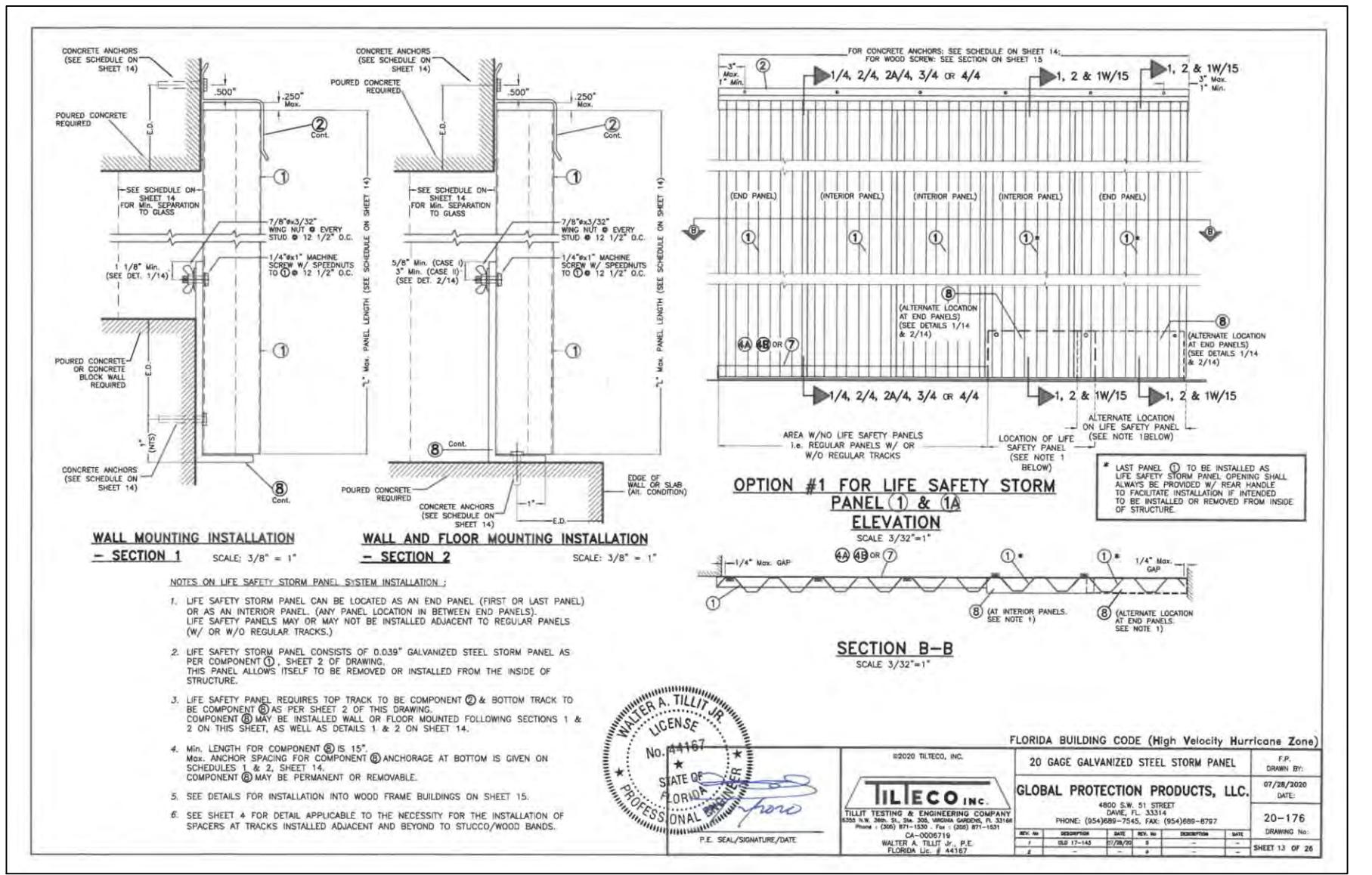
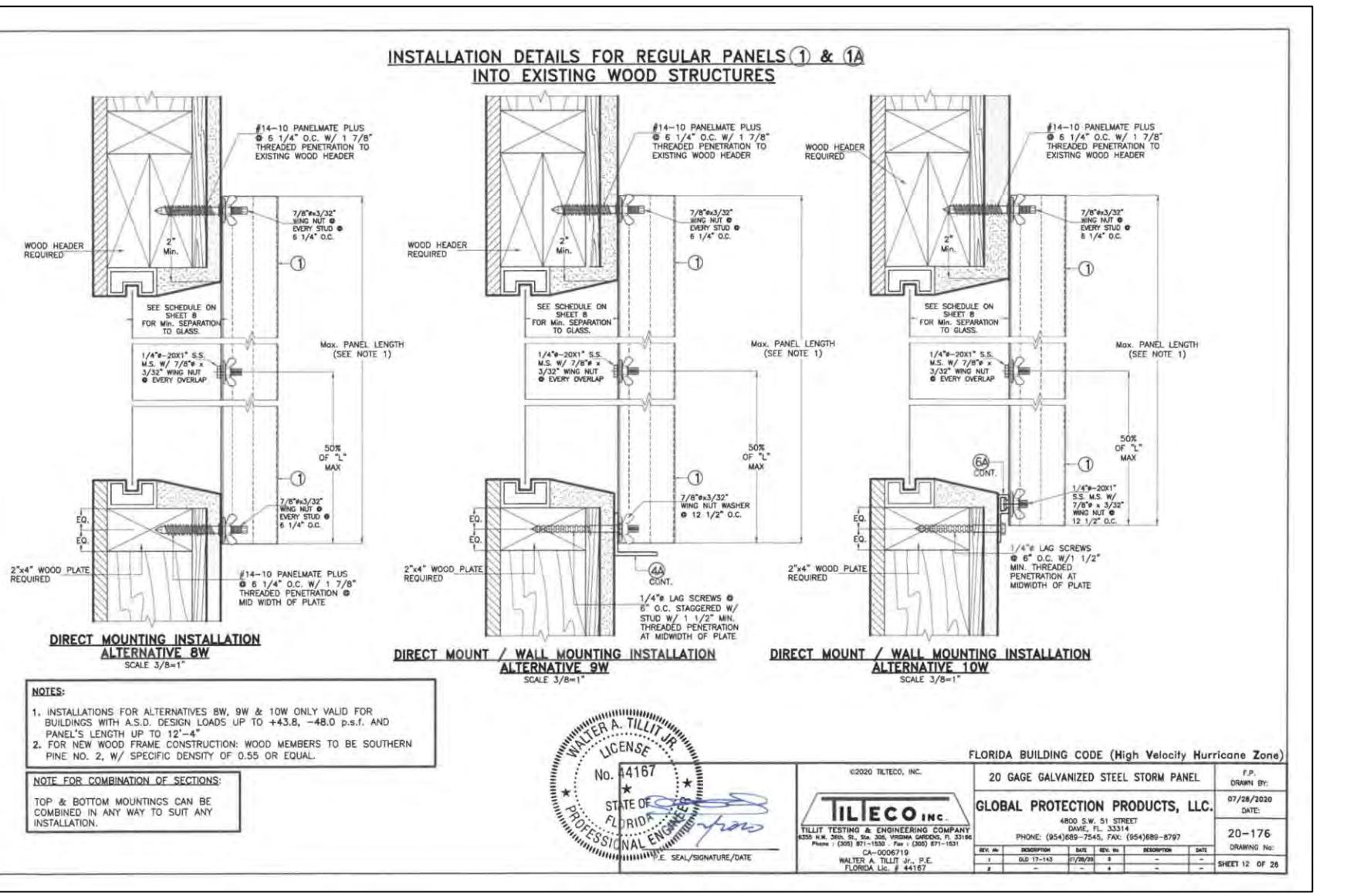
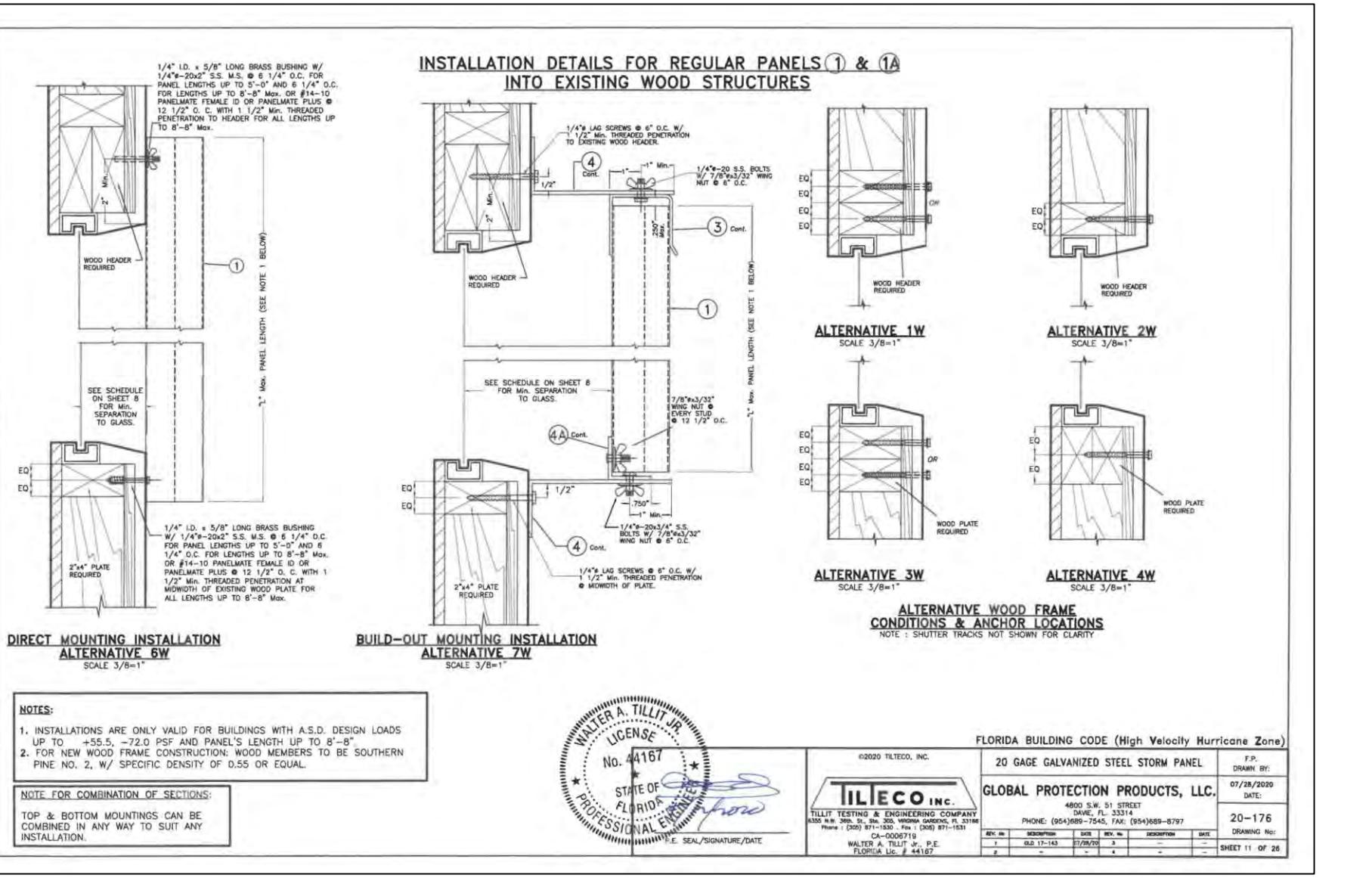
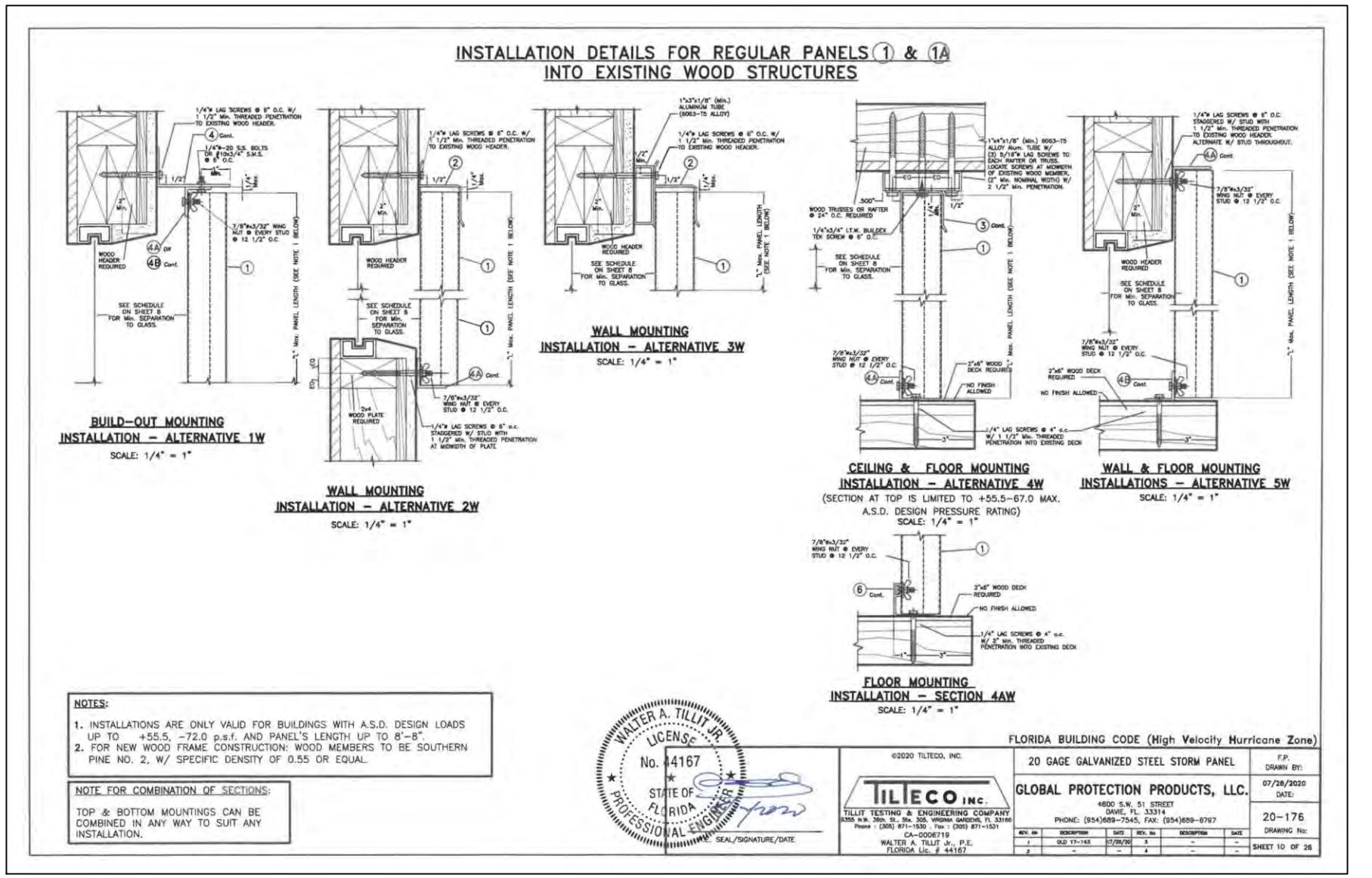
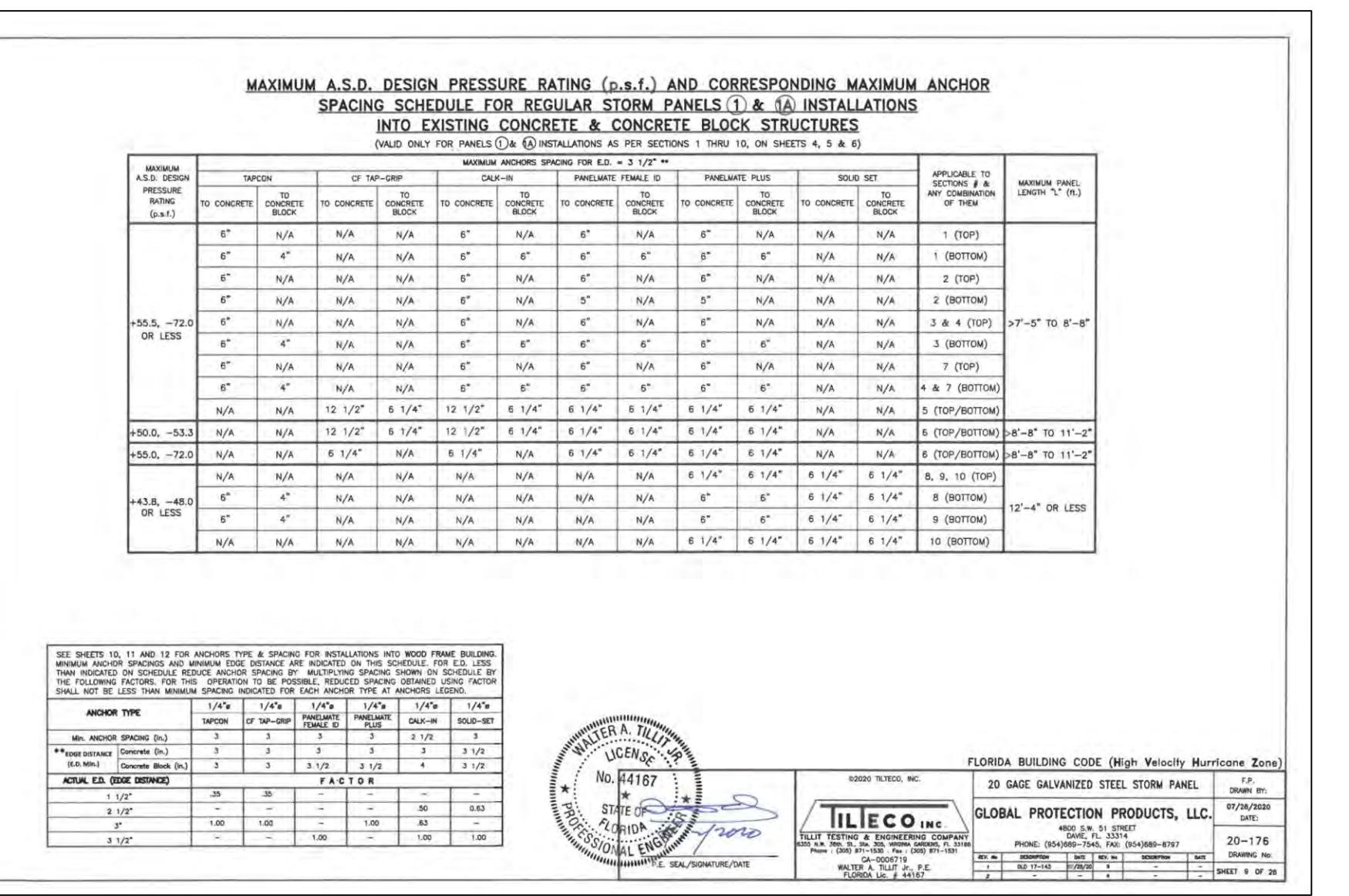
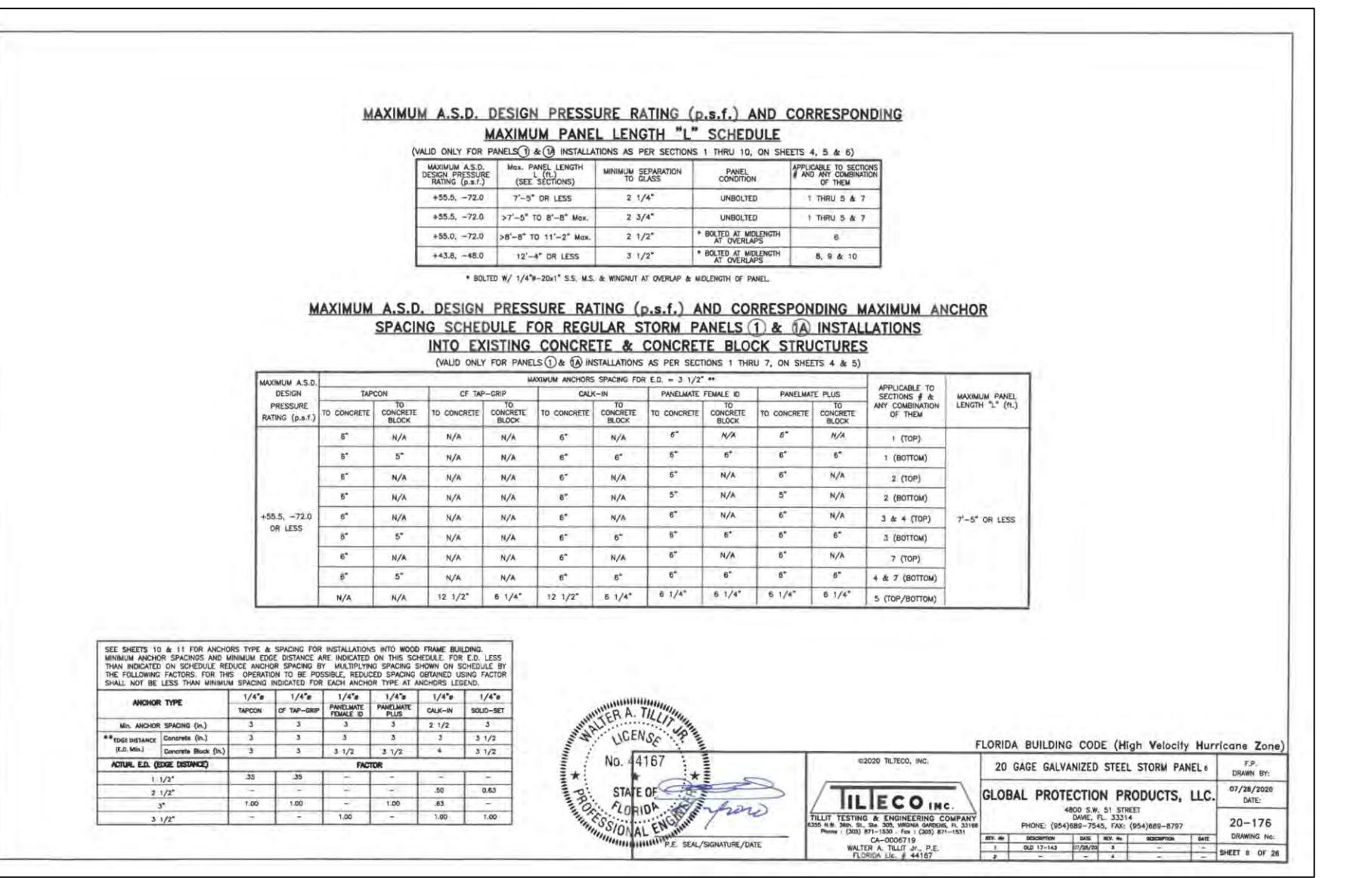
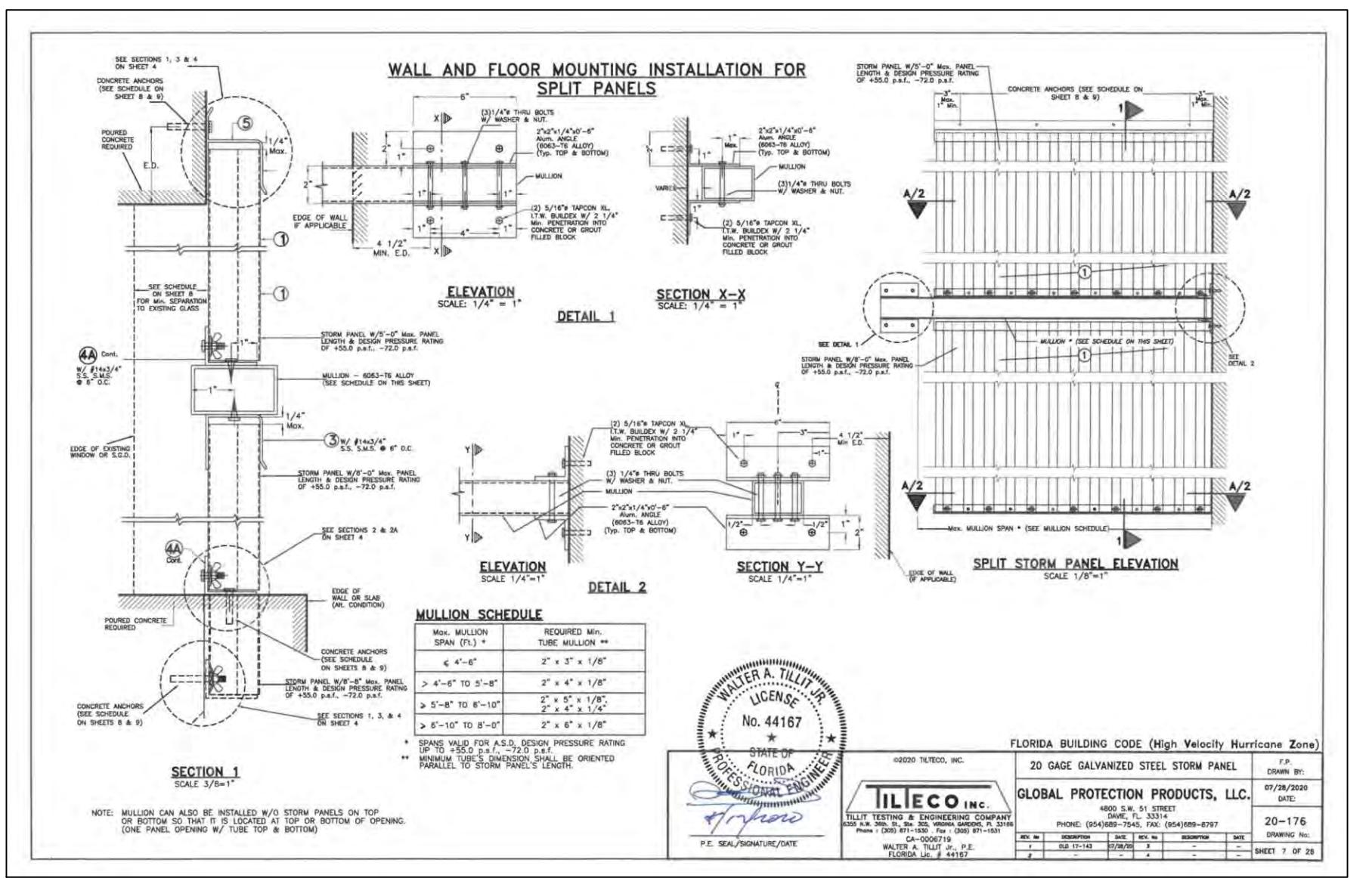
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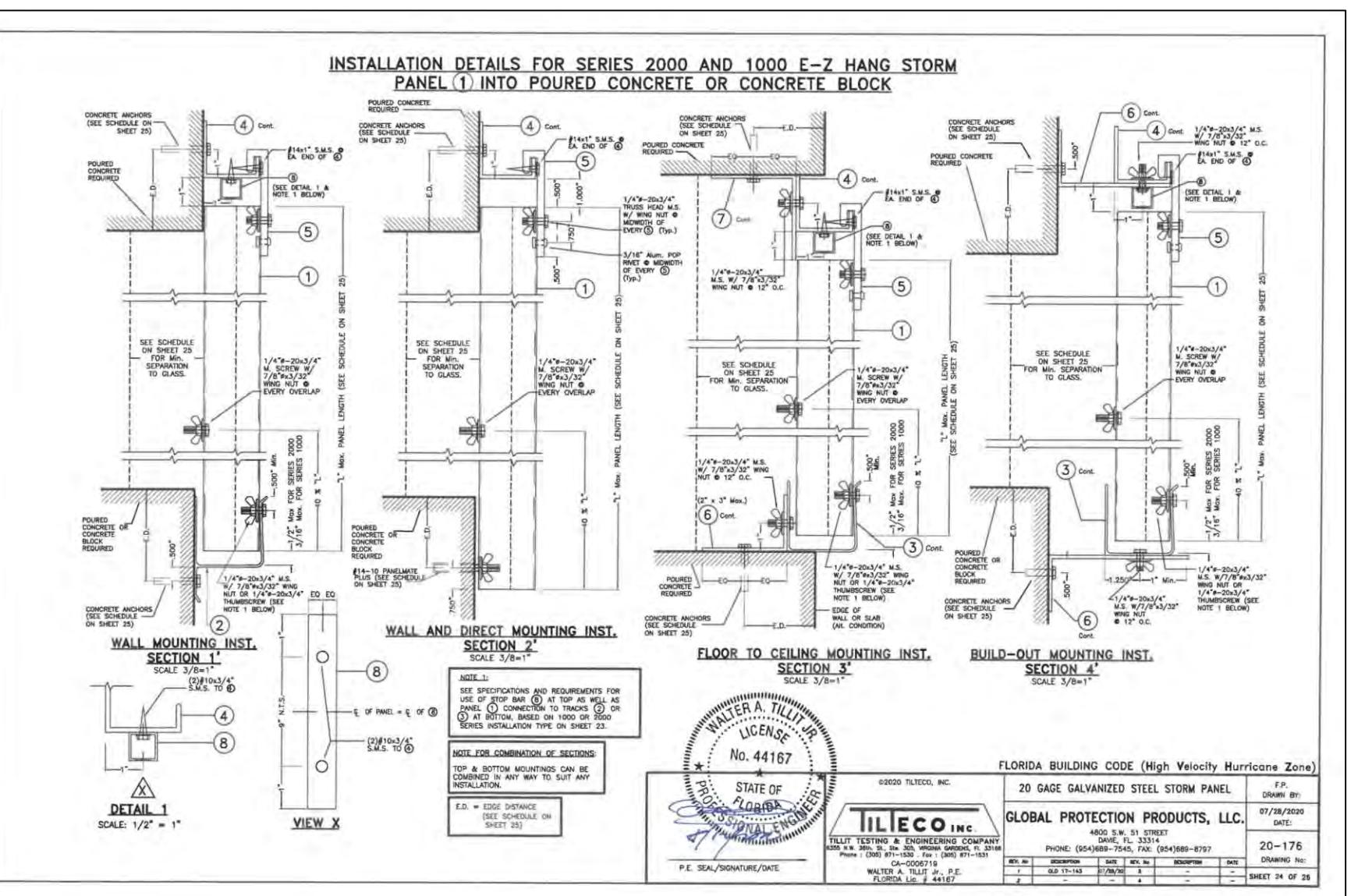
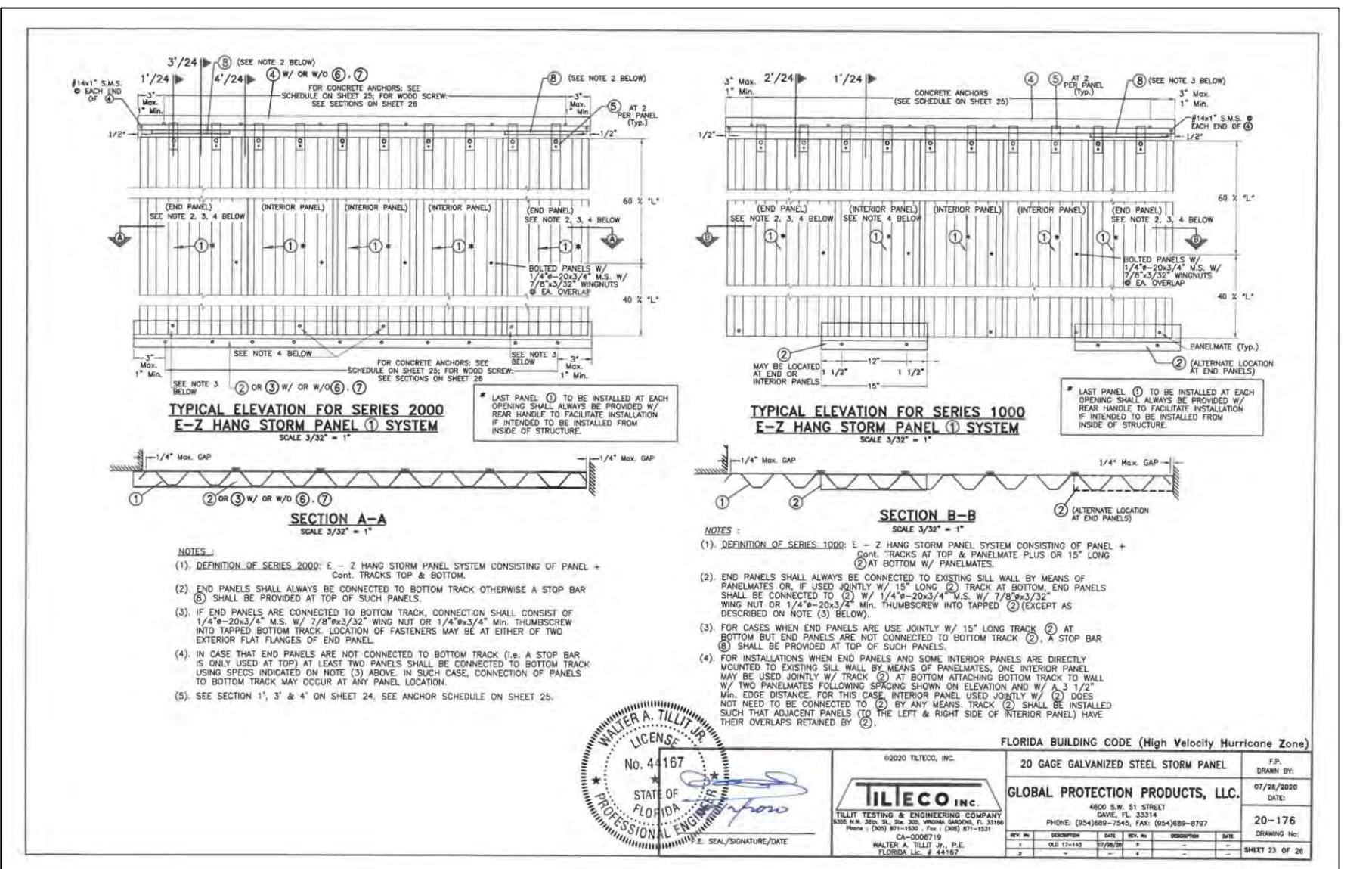
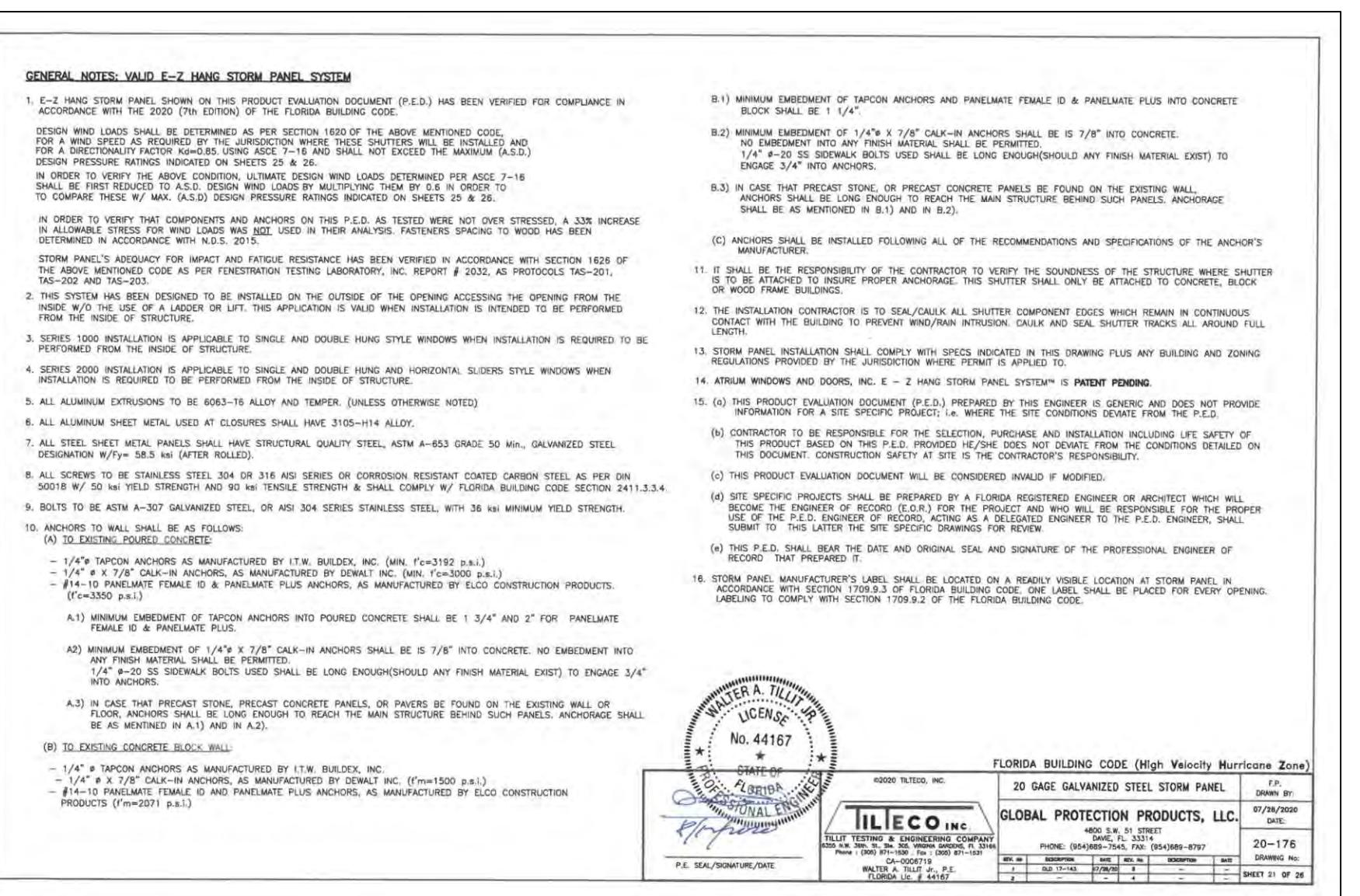
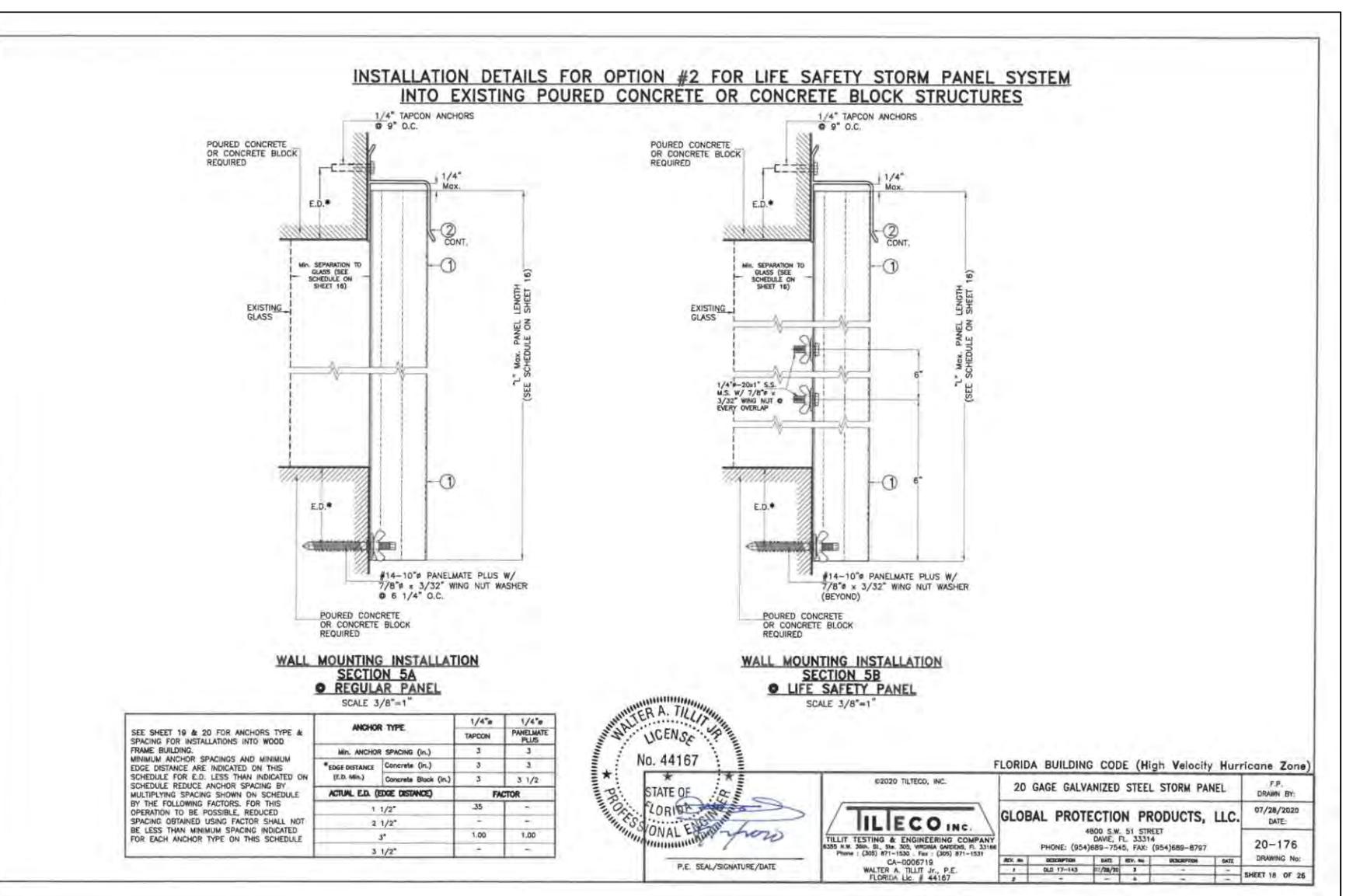
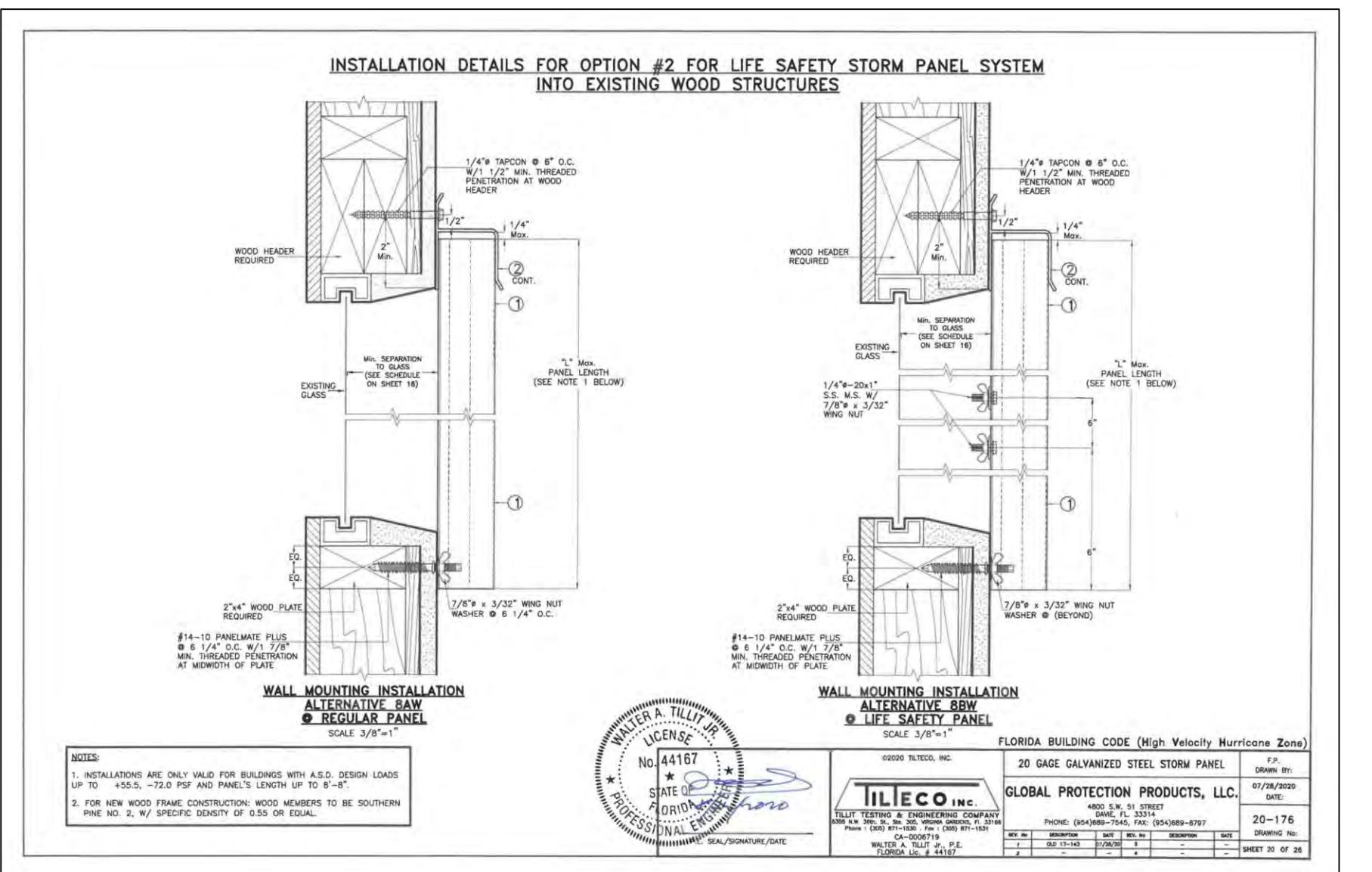
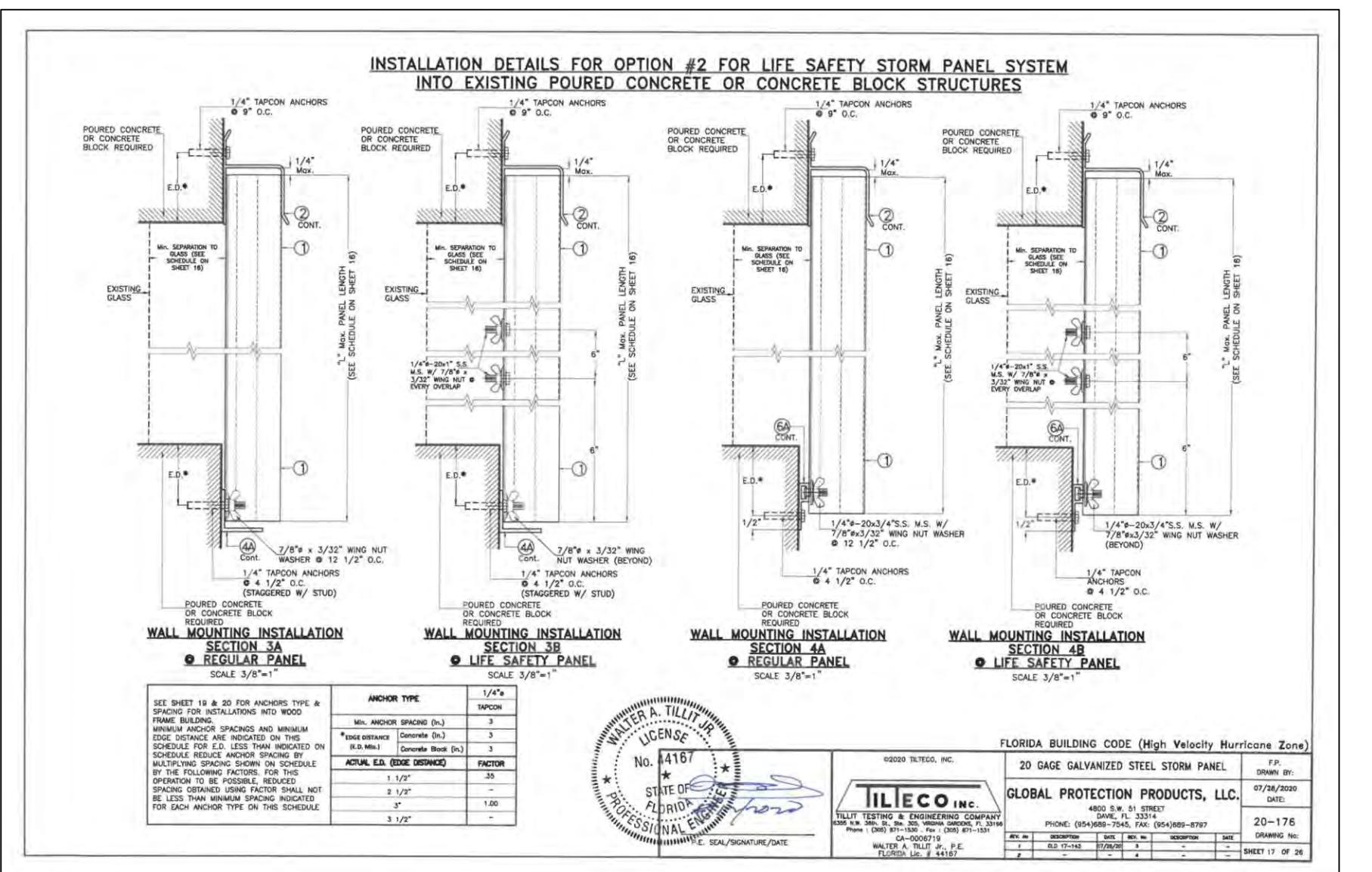
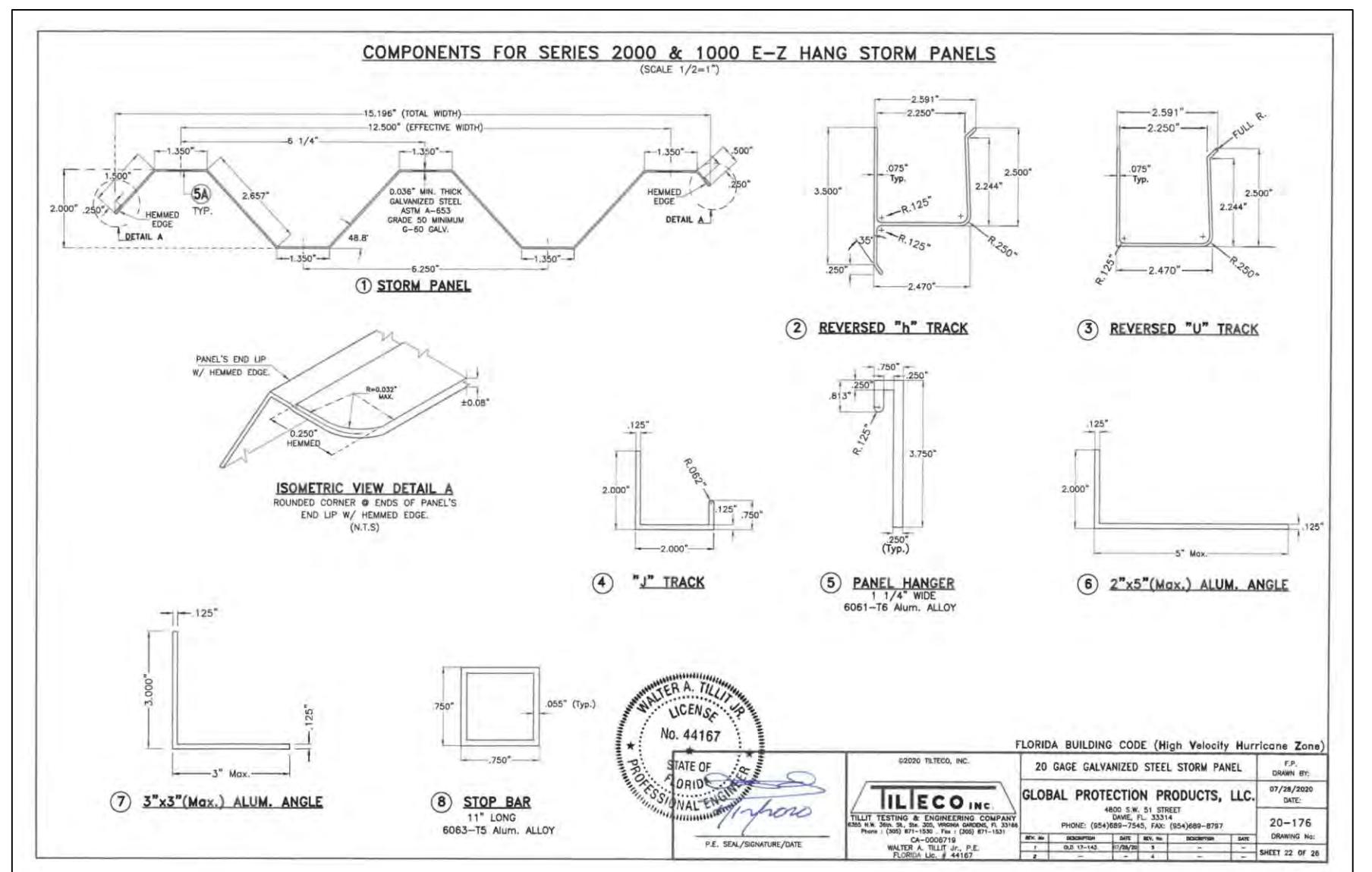
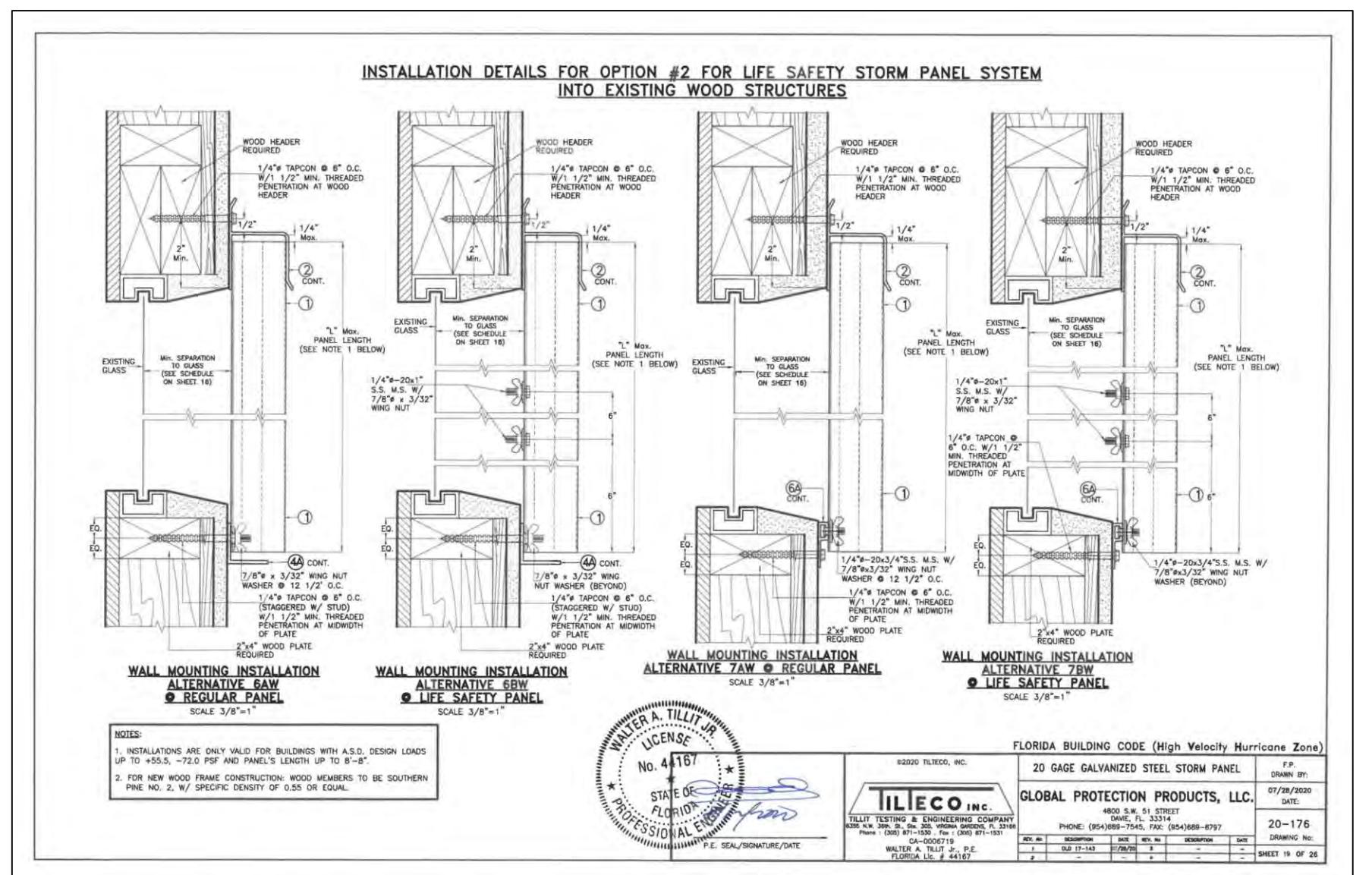
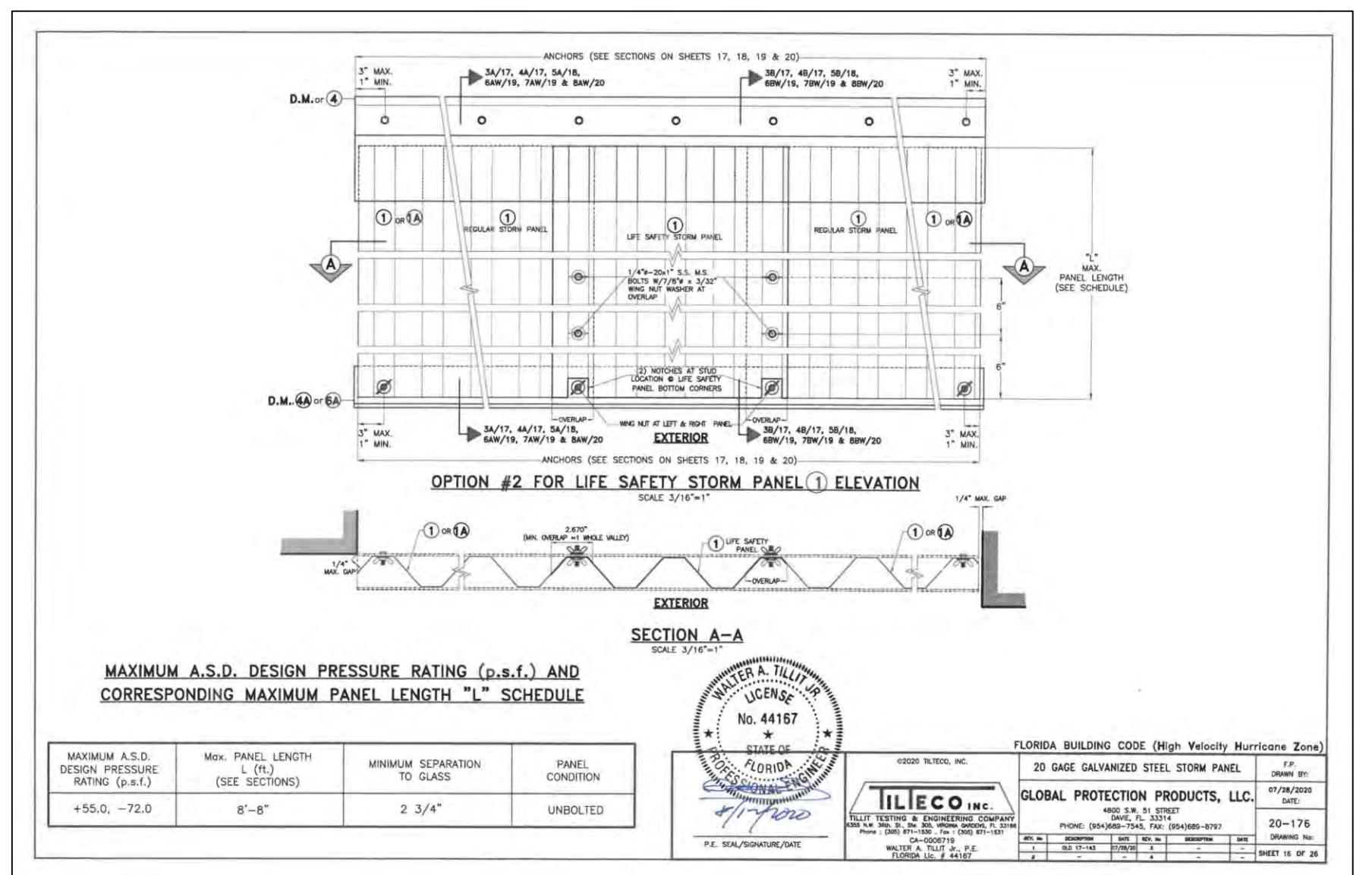
3. Product shall only be installed into poured concrete, concrete block, and wood frame structures.

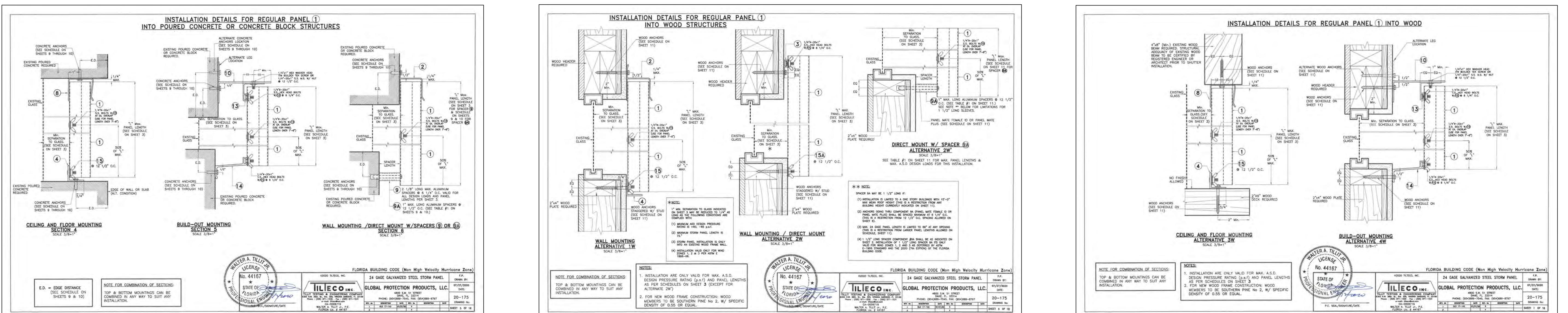
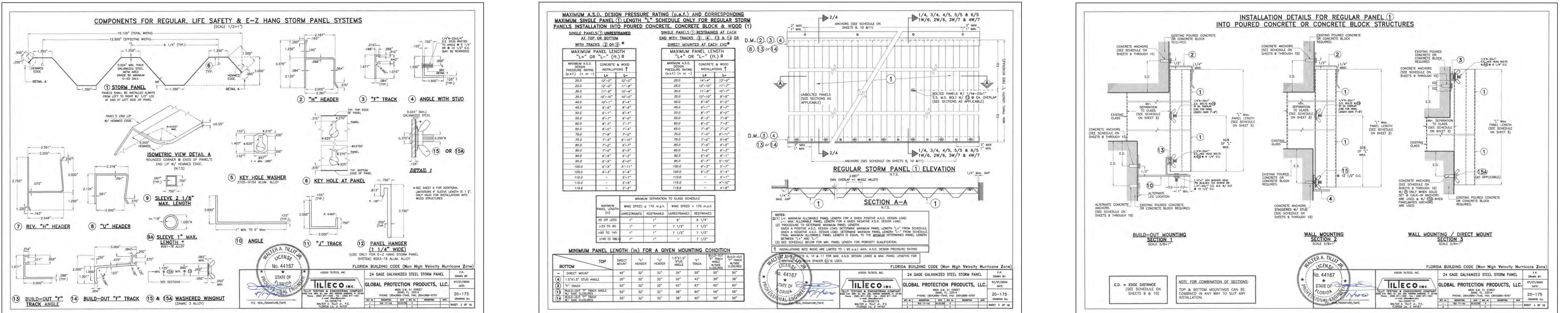
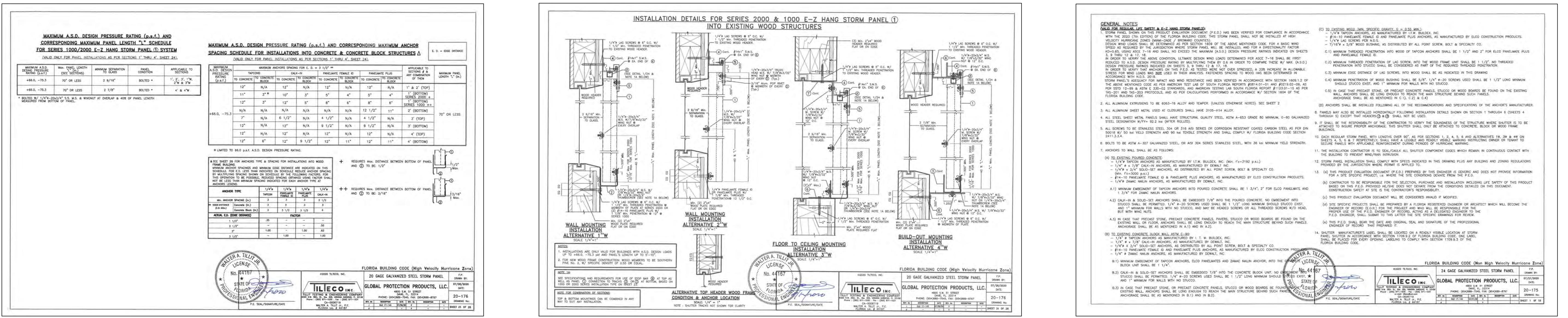
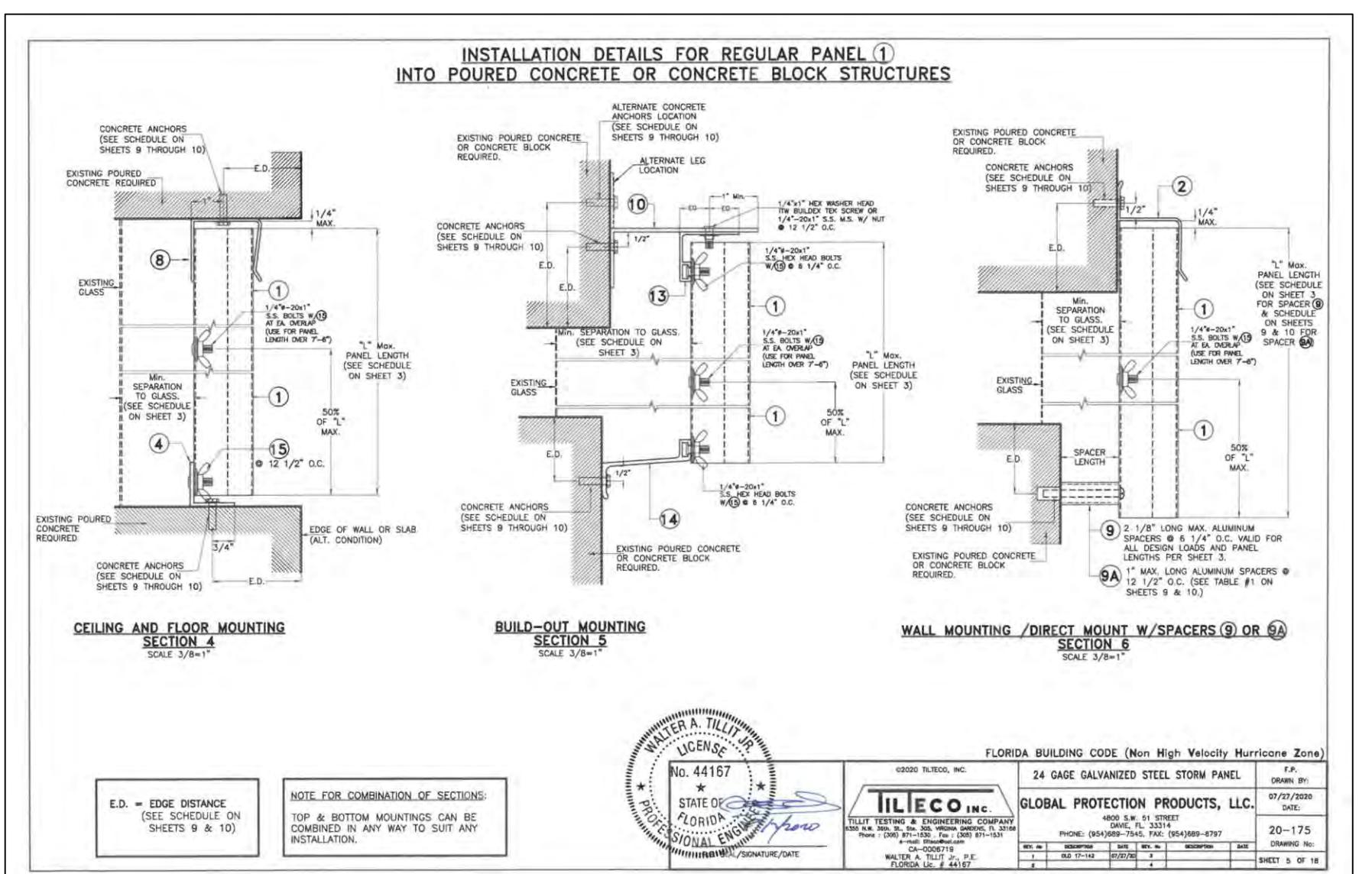
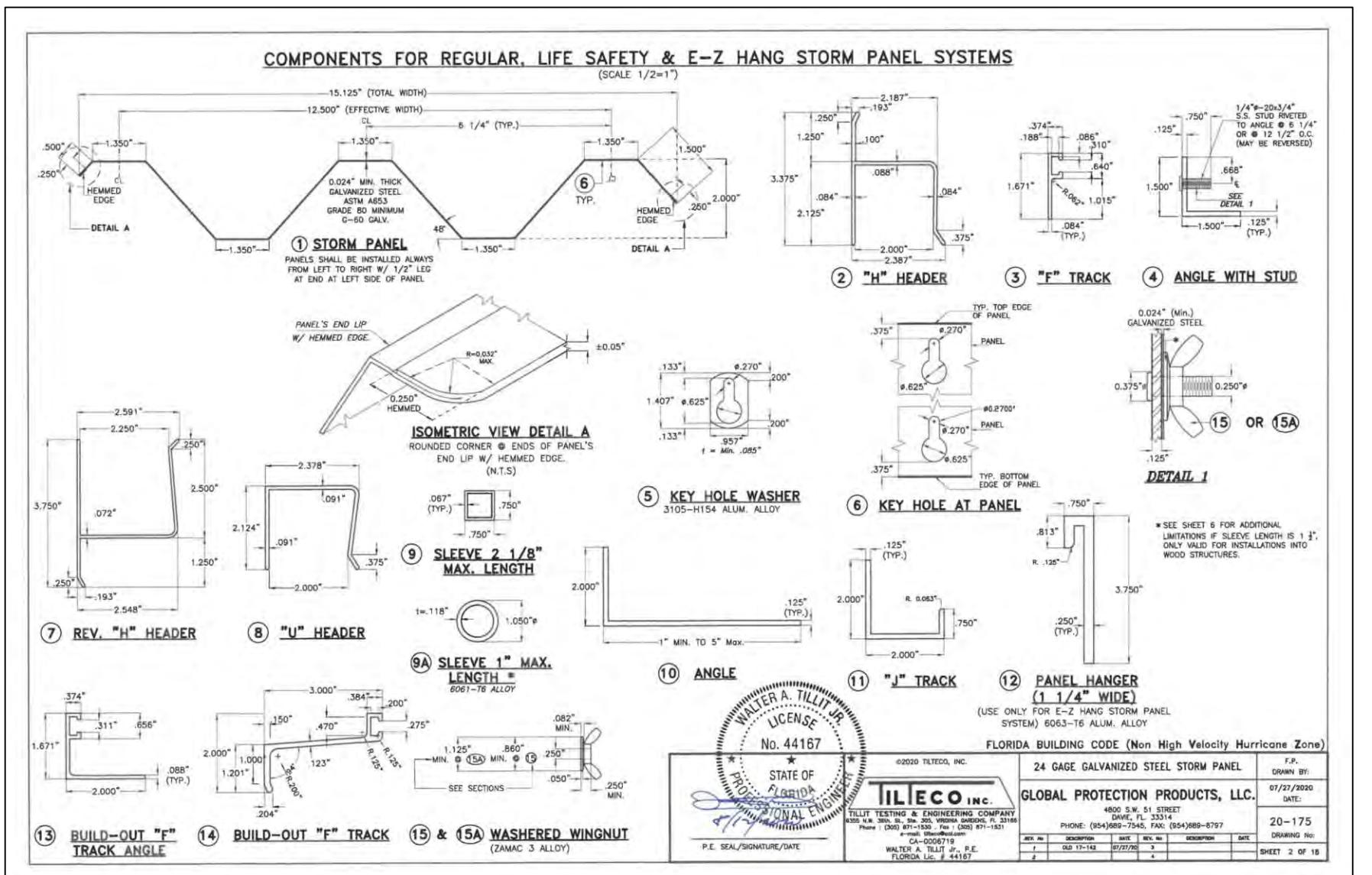
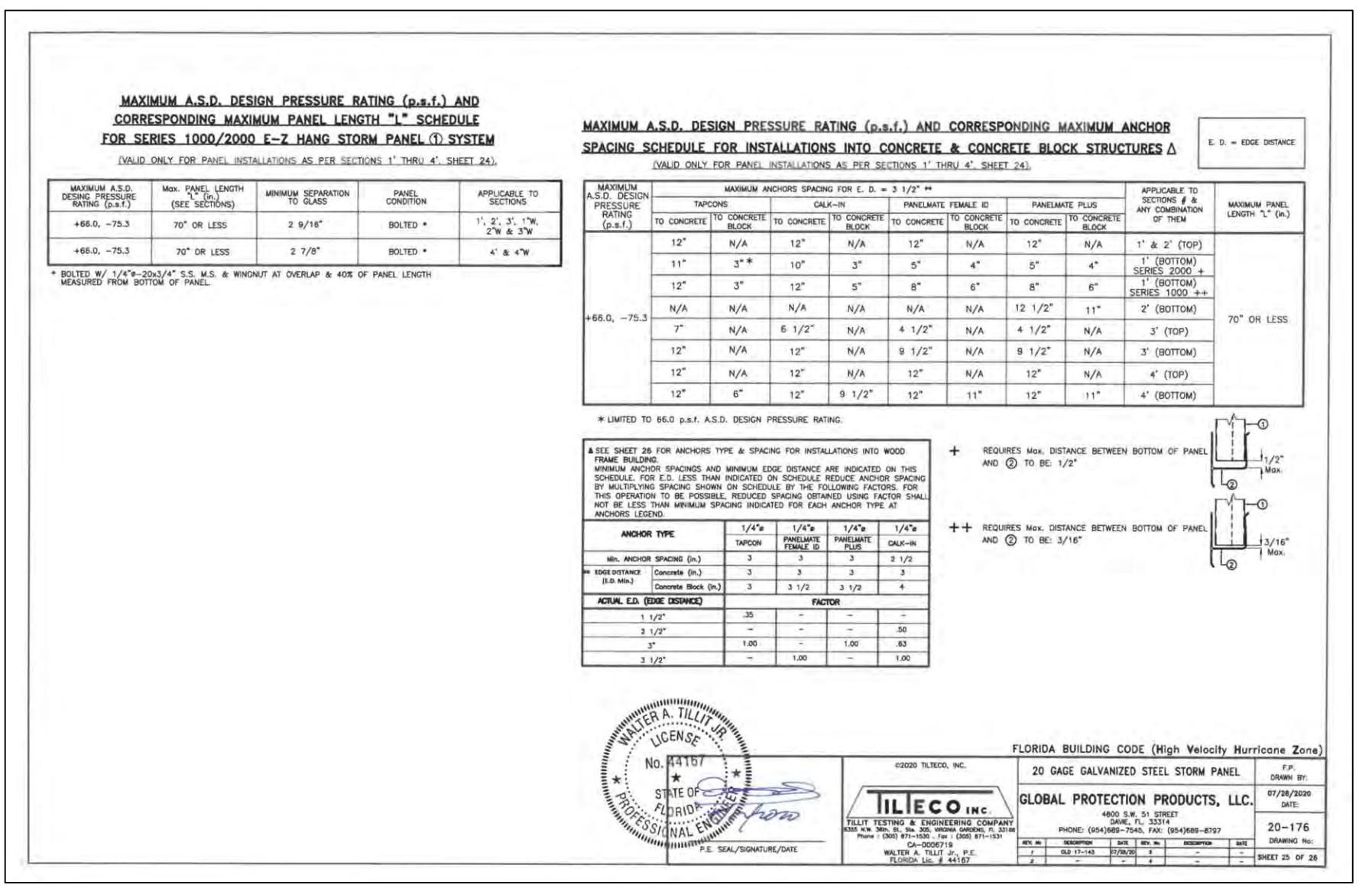
11. MISCELLANEOUS:
Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tileco, Inc. (Florida CA-0006719).

12. SIGNATURES:
WALTER A. TILLIT, JR., P.E.
7/27/2020
FLA.License No. 88079









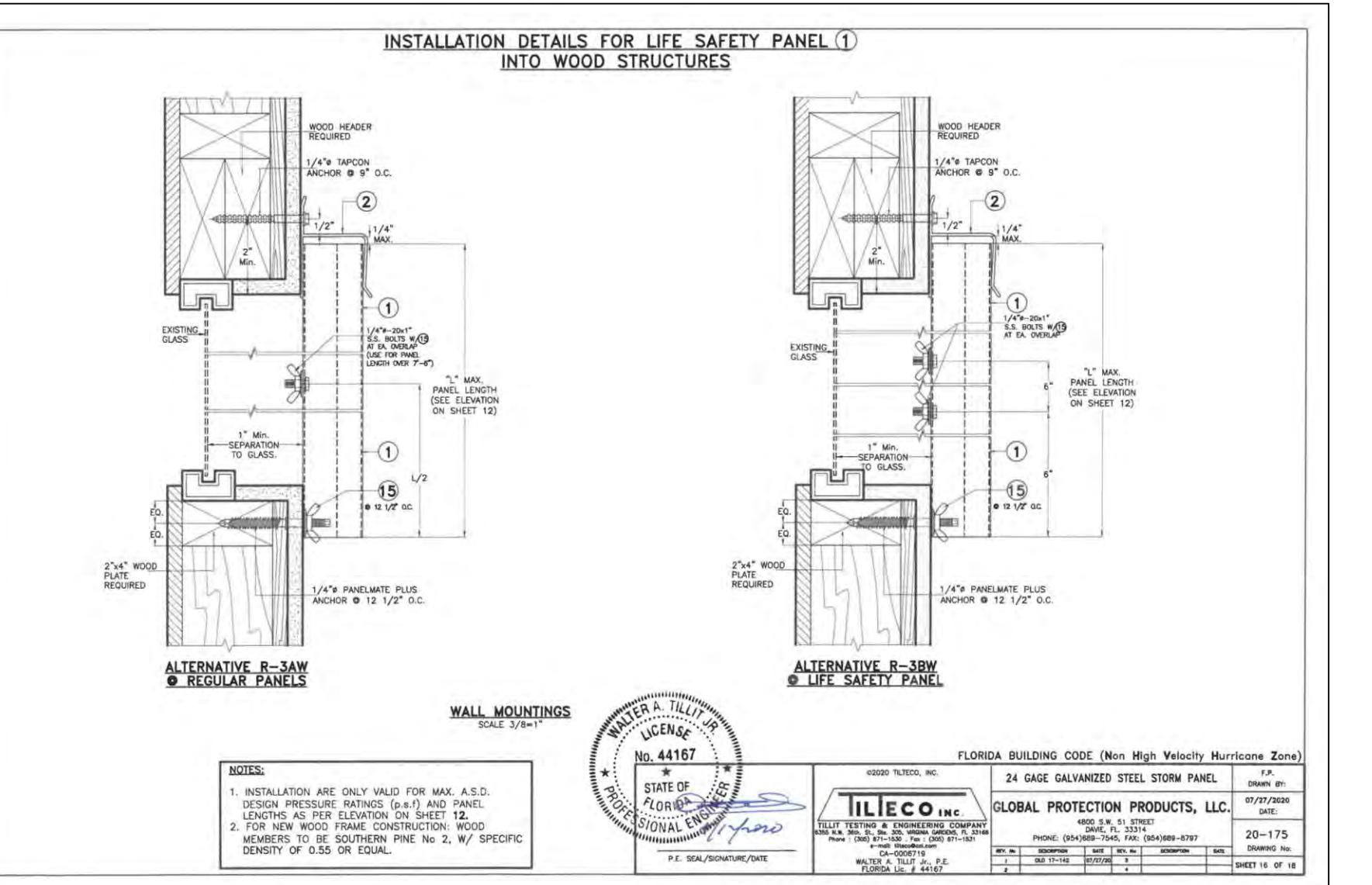
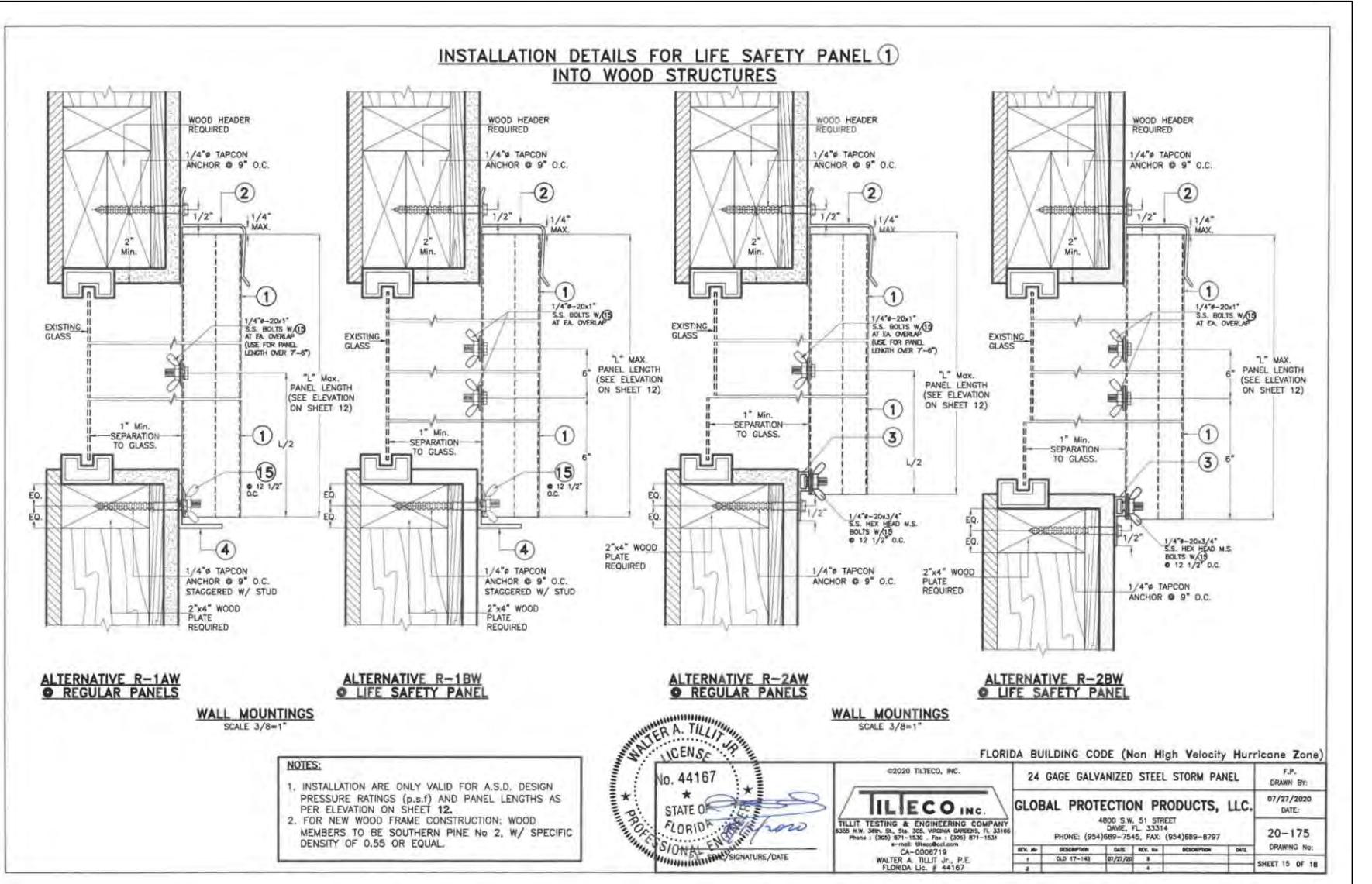
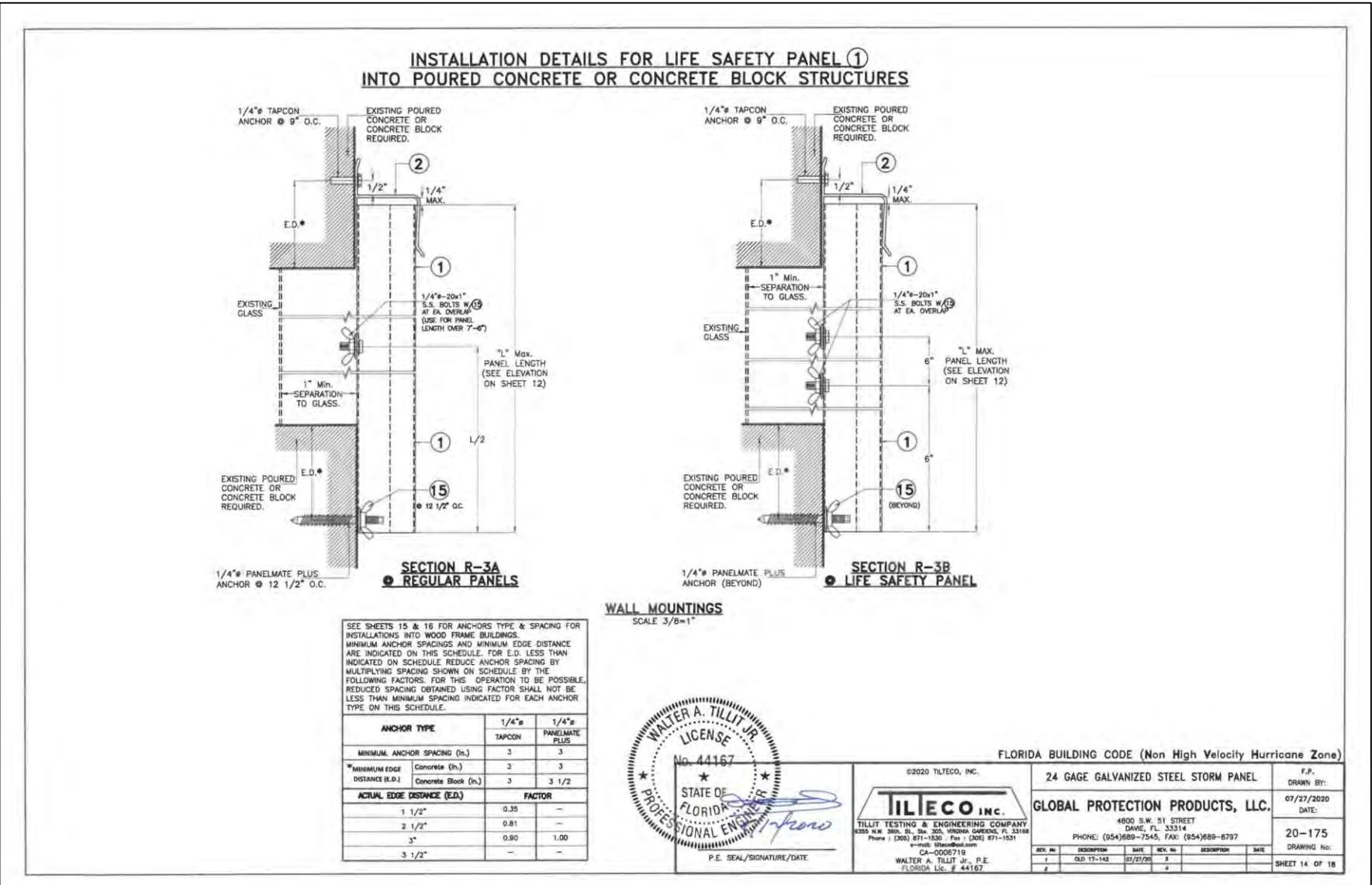
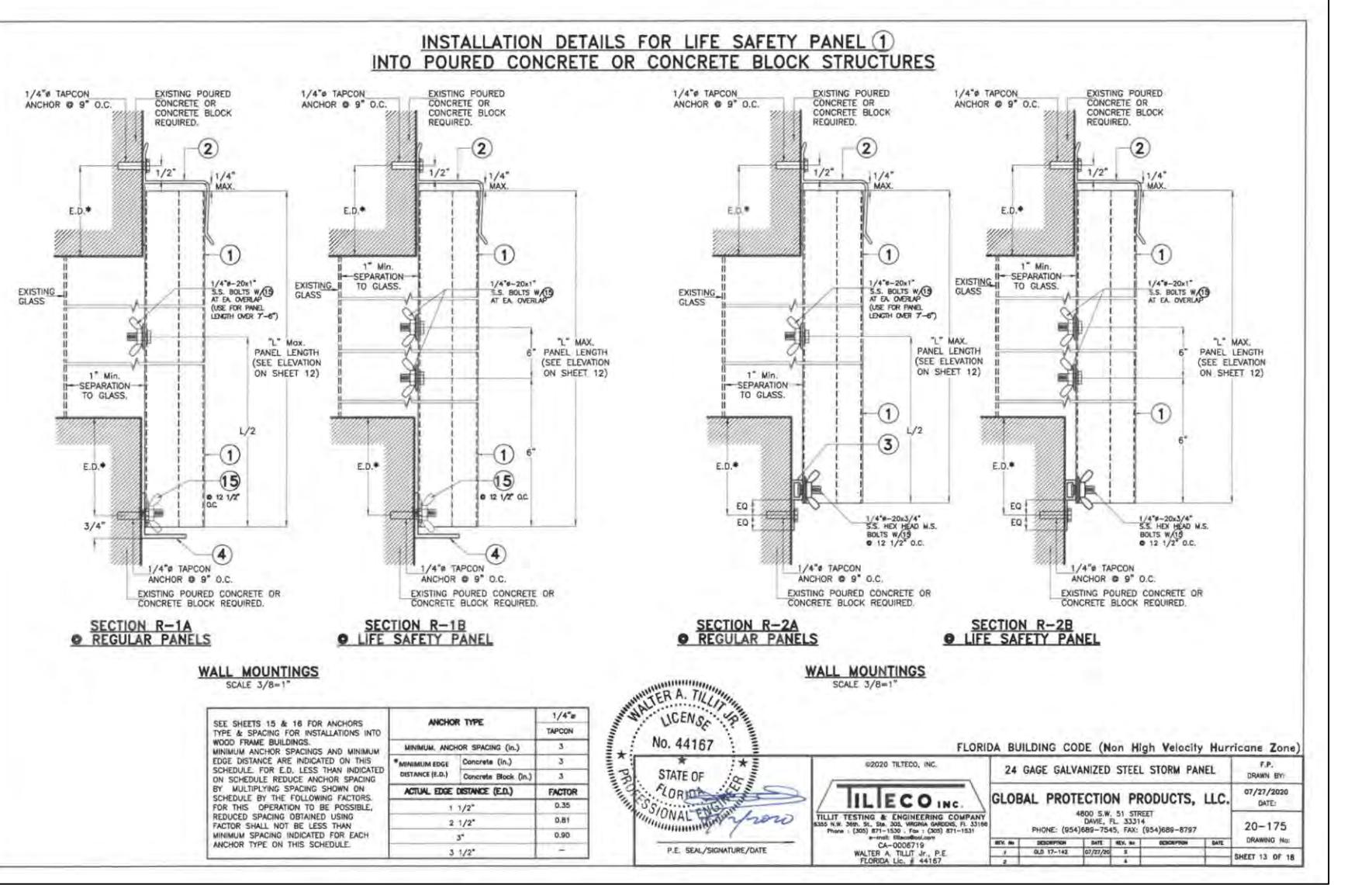
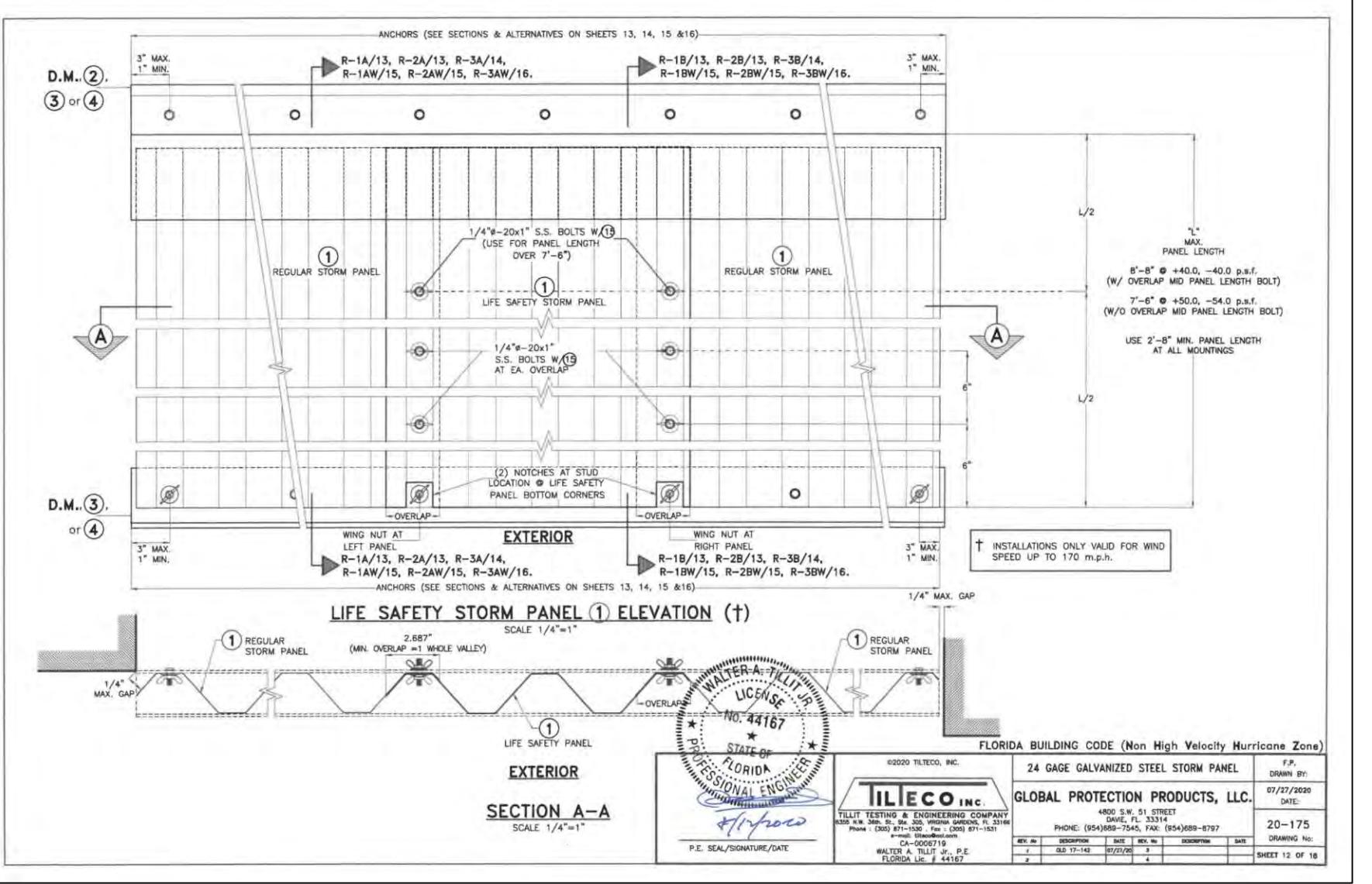
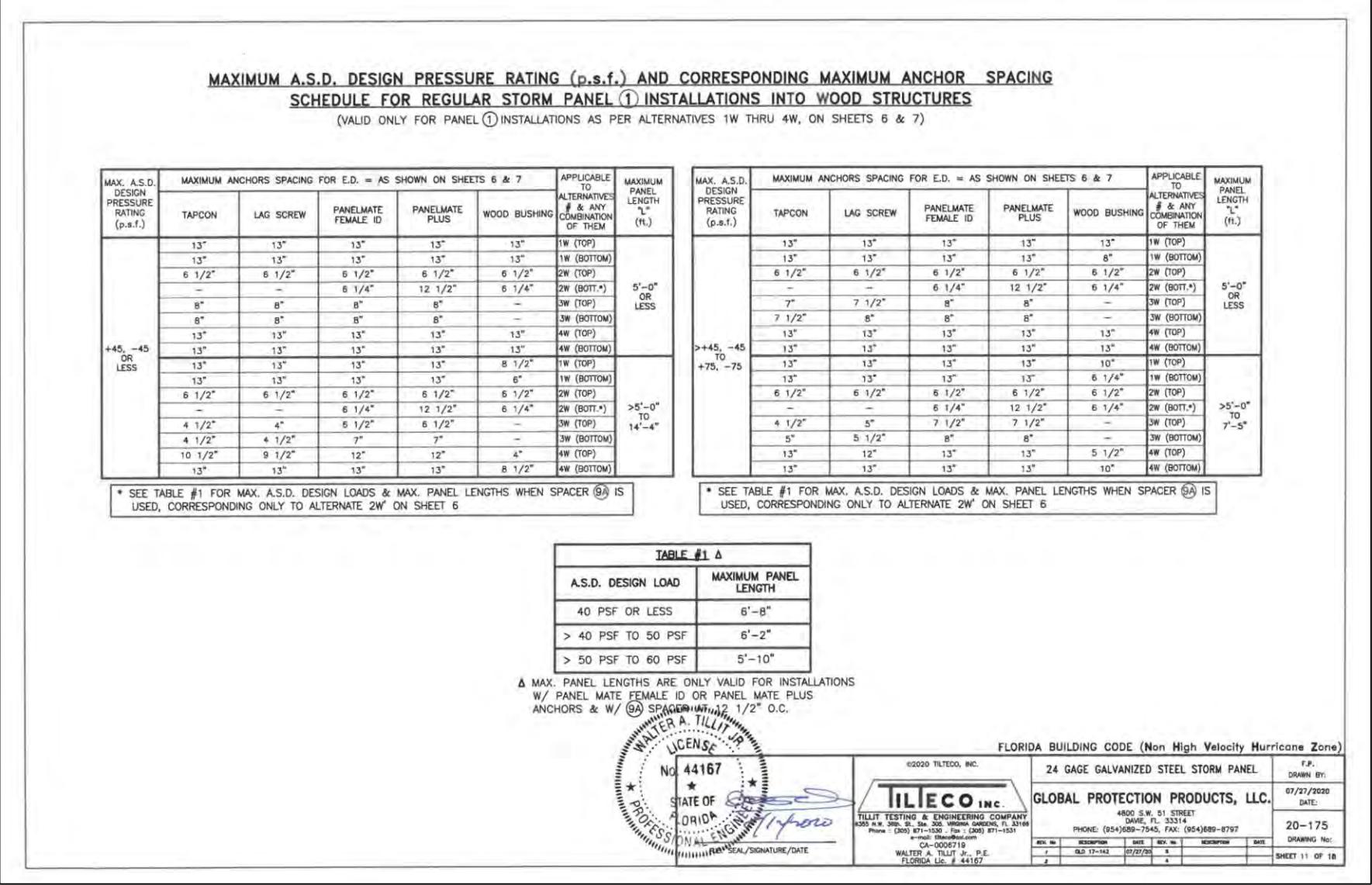
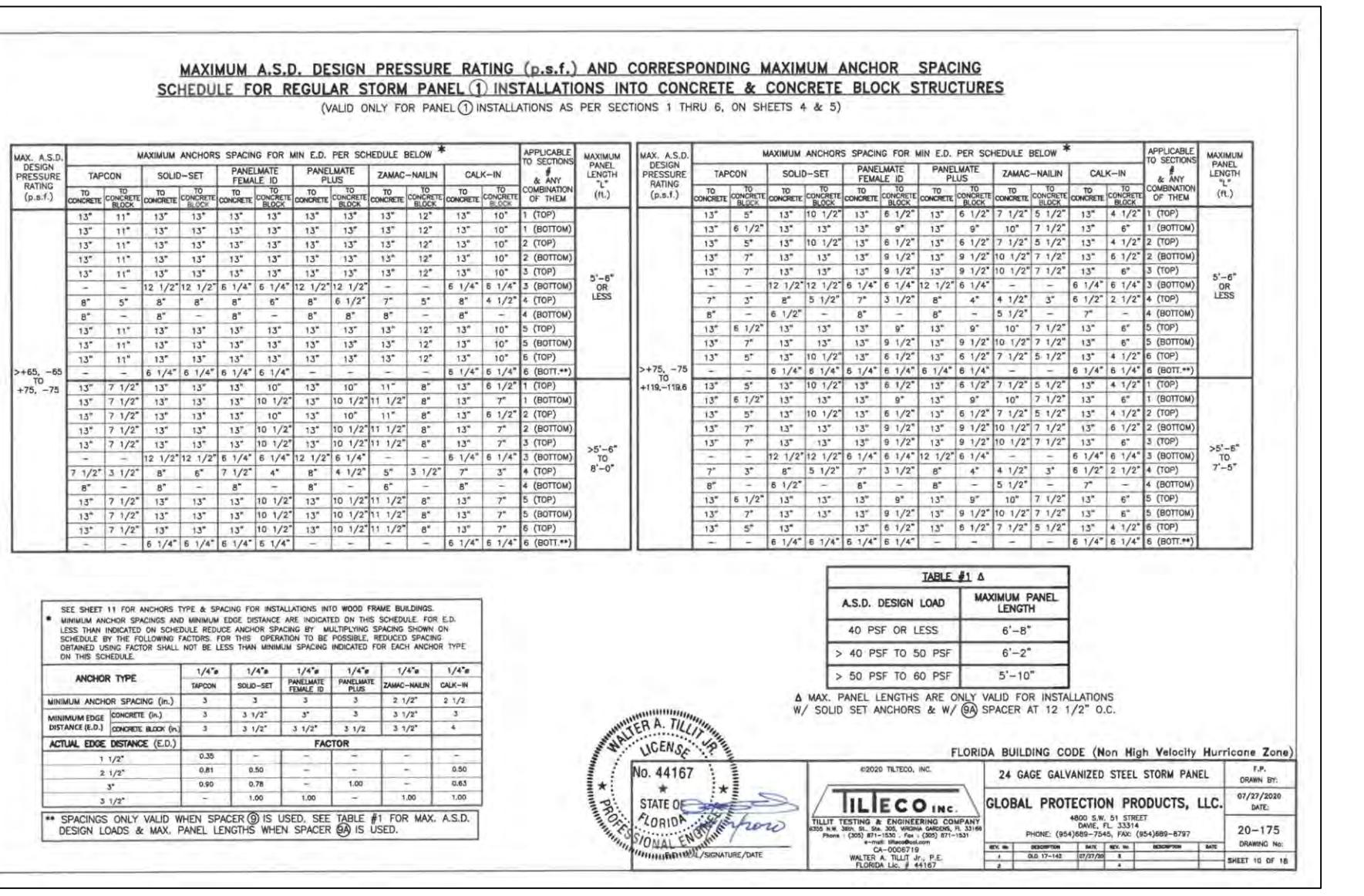
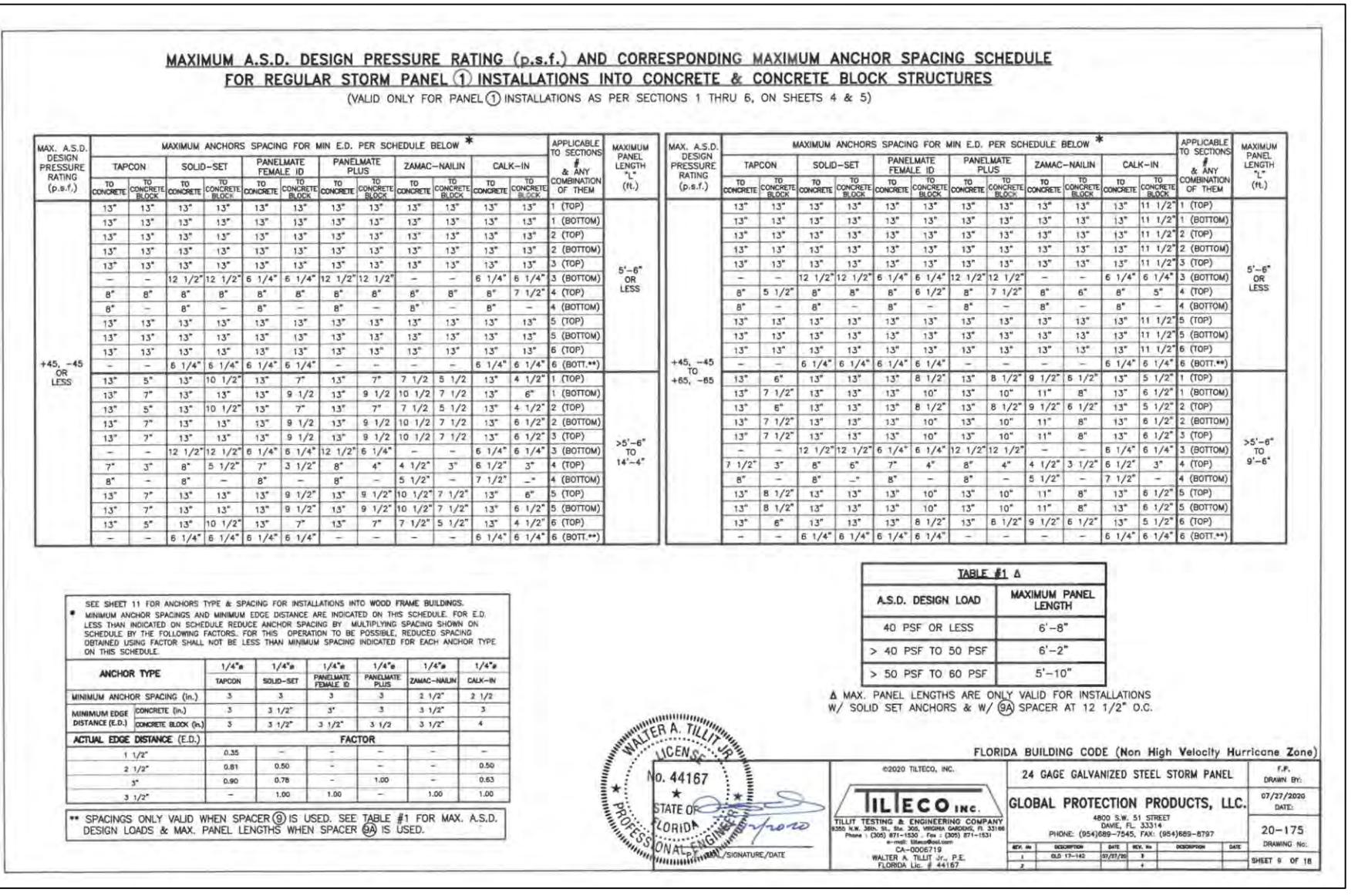
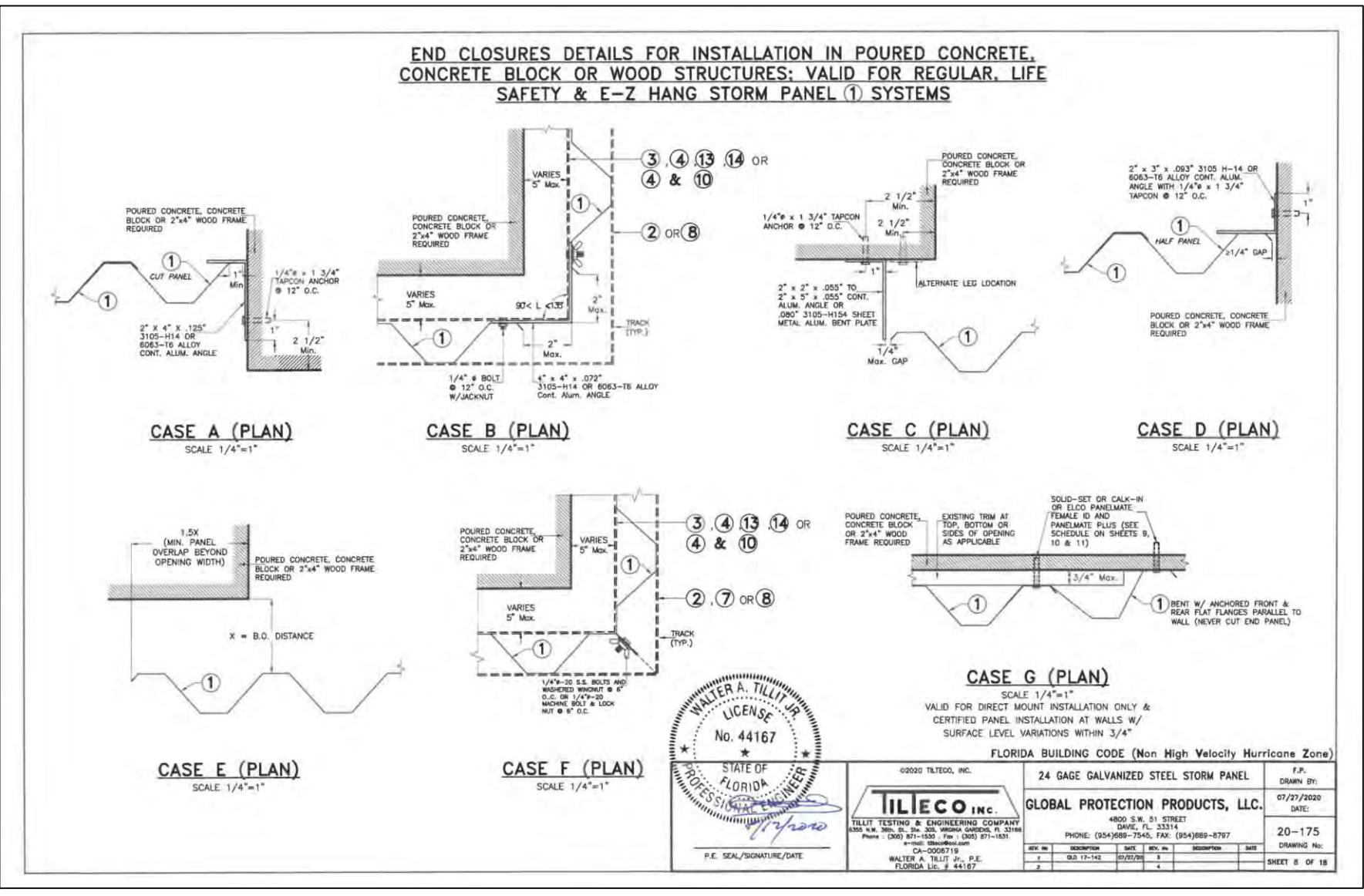
LEZENZAIR

This is a high engineered steel based on product approval information located on the State of Florida's Product Approval web site.

Hurricane Shutters

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LENNAR

This is a non engineered sheet based on product approval information located on the State of Florida's Product Approval web site.

Hurricane Shutters

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