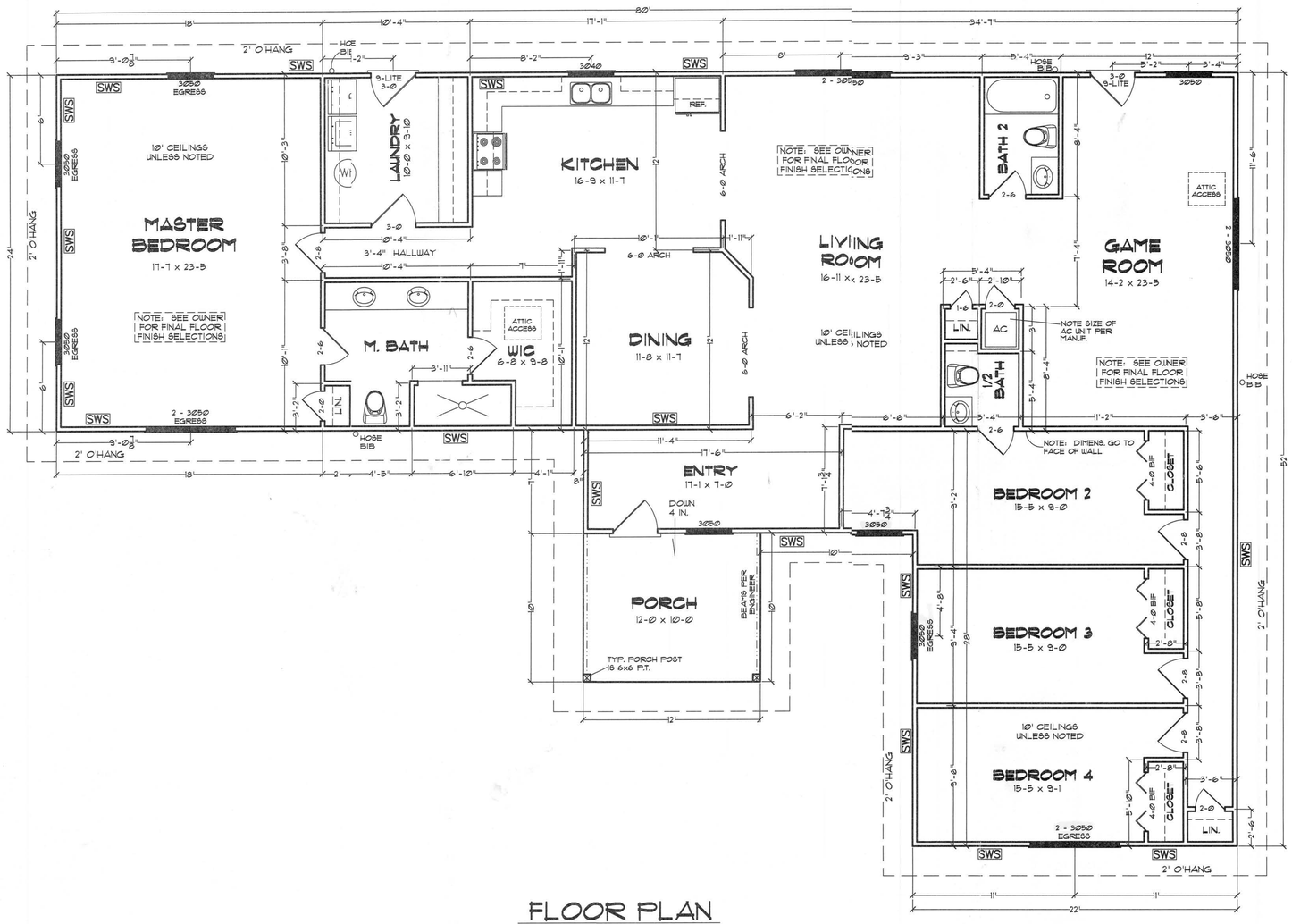


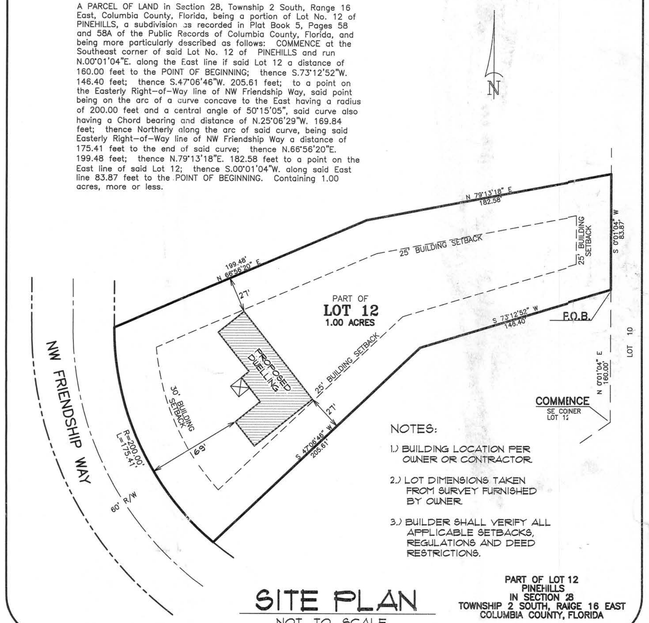

## FLOOR PLAN

SCALE: 1/4 IN. = 1 FT.

SWS = indicates a shearwall segment location referring to the labeled section of wall lying between the adjacent window / door openings in either direction. The shearwall areas have a height/width aspect ratio of 3-1/2 : 1 or wider.

## DESCRIPTION:

A PARCEL OF LAND in Section 28, Township 2 South, Range 16 East, Columbia County, Florida, being a portion of Lot No. 12 of PINEHILLS, a subdivision as recorded in Plat Book 5, Pages 58 and 58A of the Public Records of Columbia County, Florida, and being more particularly described as follows: COMMENCE at the Southeast corner of said Lot No. 12 of PINEHILLS and run N.00°01'04"E. along the East line if said Lot 12 a distance of 160.00 feet to the POINT OF BEGINNING; thence S.73°12'52"W. 146.40 feet; thence S.47°06'46"W. 205.61 feet; to a point on the Easterly Right-of-Way line of NW Friendship Way, said point being on the arc of a curve concave to the East having a radius of 200.00 feet and a central angle of 50°15'05", said curve also having a Chord bearing and distance of N.25°06'29"W. 169.84 feet; thence Northerly along the arc of said curve, being said Easterly Right-of-Way line of NW Friendship Way a distance of 175.41 feet to the end of said curve; thence N.66°56'20"E. 199.48 feet; thence N.79°13'18"E. 182.58 feet to a point on the East line of said Lot 12; thence S.00°01'04"W. along said East line 83.87 feet to the POINT OF BEGINNING. Containing 1.00 acres, more or less.




NOTES:

1.) BUILDING LOCATION PER OWNER OR CONTRACTOR.

2.) LOT DIMENSIONS TAKEN FROM SURVEY FURNISHED BY OWNER.

3.) BUILDER SHALL VERIFY ALL APPLICABLE SETBACKS, REGULATIONS AND DEED RESTRICTIONS.

## SITE PLAN

NOT TO SCALE

PART OF LOT 12
PINEHILLS
IN SECTION 28
TOWNSHIP 2 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA

## AREA SUMMARY

CONDITIONED AREA = 2690 SQ. FT.
PORCH = 120 SQ. FT.

## INDEX TO SHEETS



COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

WINDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with the 5th Edition Florida Building Code Residential (2014) to the best of my knowledge.

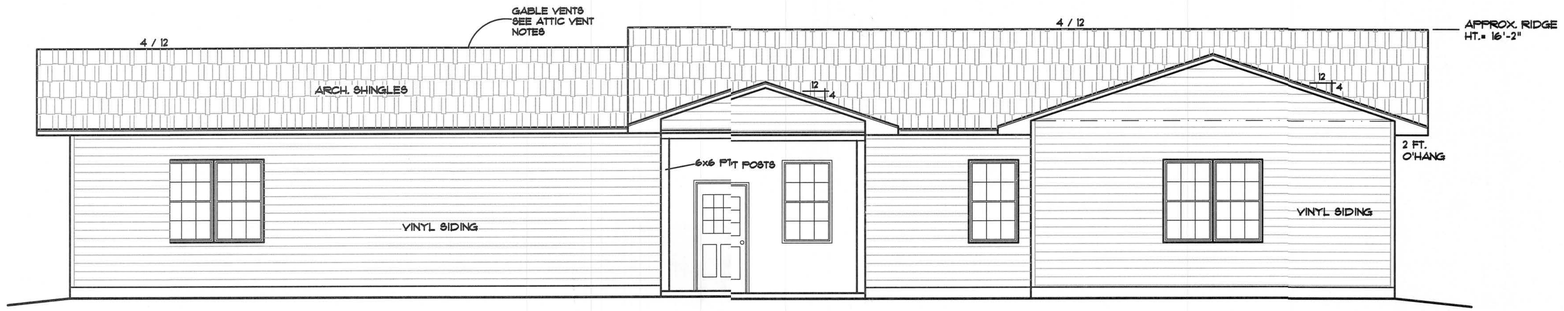
LIMITATION: This design is valid for one building, at specified location. In case of conflict, structural requirements, scope of work, and builder responsibilities on sheet S-1 control.

Location:_____ Job No.: 191327

MARK D DISOSWAY LICENSE No. 53915 STATE OF FLORIDA PROFESSIONAL ENGINEER

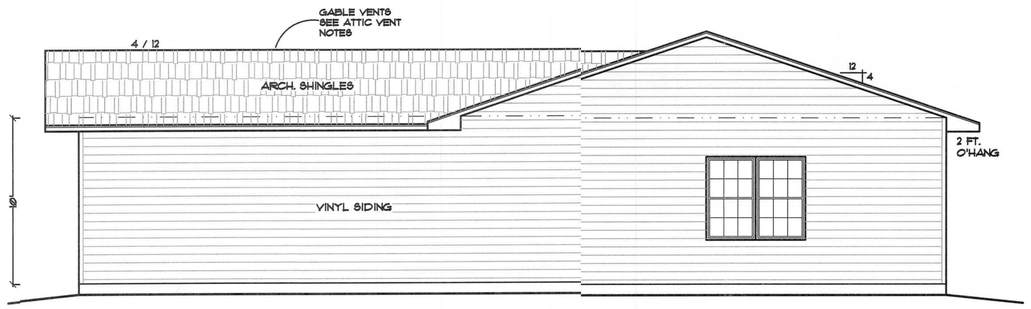
A-1

| | | |
|---|---|---|
| FILE: 17-001 | TERRANCE JONES | SHEET: 1 OF 5 |
| DATE: 11-30-19 | | CAD FILE: 17-001 |
| DRAWN: T A D | TIM DELBENE Residential Design / Drafting | REV: |
| CHECK: T A D | 152 SW Sagewood Glen, Lake City, FL 32024 Phone ( 386 ) 755-5881 | REV: |




# FRONT ELEVATION

SCALE: 1/4 IN. = 1 FT.




# RIGHT ELEVATION

SCALE: 1/4 IN. = 1 FT.

## GENERAL NOTES

1.) See "Wind Load Detail Sheet S-1" and Wind Engineer's Notes for data pertaining to Wind Design and compliance w/ Florida Building Code.

2.) All concrete used to be 2500 PSI strength or greater.

3.) HVAC duct and unit size/design is by engineered shop drawings from the AC contractor.

4.) Windows to be vinyl or alum. framed and double glazed. Sizes shown are nominal and may vary with manufacturer.

5.) Roof Truss design is the responsibility of the supplier.

6.) The Truss Manufactuer shall prepare Shop Drawings indicating Truss placement, Girder locations, Truss-to-Truss Connections and any point loads. The Contractor shall notify the Designer of any point loads in excess of 2.0k for Fnd. Modification.

7.) Site analysis or preparation information is not a part of this plan and is the responsibility of the owner.

8.) Cabinet and millwork detail is not a part of this plan. The plan is a general design and details shall be the responsibility of the owner and/or contractor.

## ATTIC VENTILATION

Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain. Ventilating openings shall be provided with corrosion-resistant wire mesh, with h 1 / 8 inch (3.2 mm) minimum t ¼ inch (6.4 mm) maximum openings.

The total net free ventilating area shall not be less than 1 to 150 of the area of the space ventilated except that the total area is permitted to be reduced to 1 to 300, provided at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (91 mm) above eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents.

**WINDLOAD ENGINEER:** Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

**CERTIFICATION:** I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with the 5th Edition Florida Building Code Residential (2014) to the best of my knowledge.

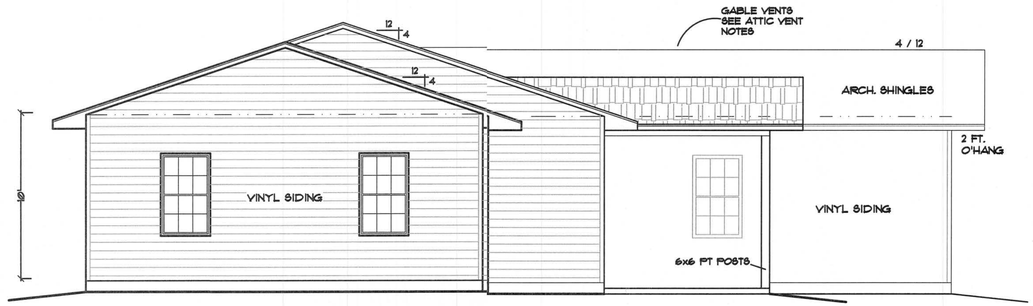
**LIMITATION:** This design is valid for one building, at specified location. In case of conflict, structural requirements, scope of work, and builder responsibilities on sheet S-1 control.

Location:_____ Job No.: 191327

MARK D. DISOSWAY LICENSE No. 53915 STATE OF FLORIDA PROFESSIONAL ENGINEER 2019-12-11

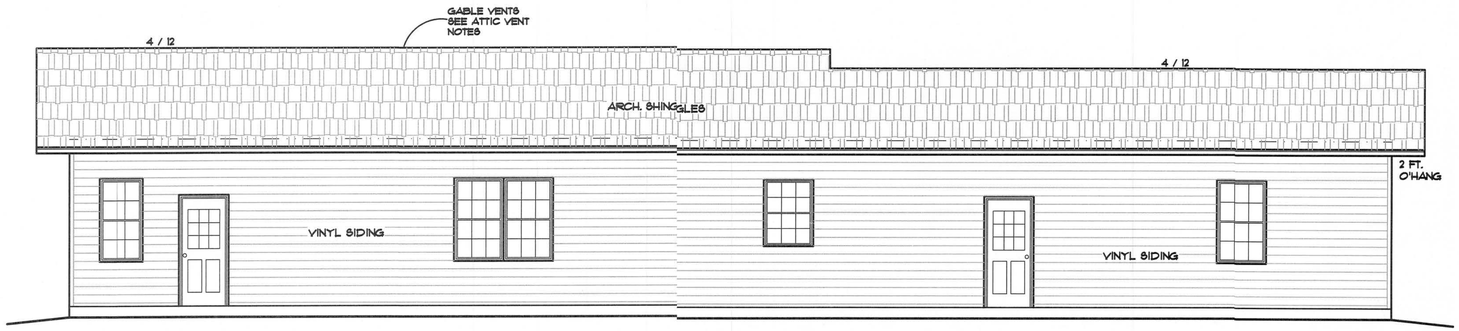
A-2

| | | |
|---|---|---|
| FILE: 17-001 | TERRANCE JONES | SHEET: 2 OF 5 |
| DATE: 11-30-19 | | CAD FILE: 17-001 |
| DRAWN: T A D | TIM DELBENE Residential Design / Drafting | REV: |
| CHECK: T A D | 132 SW Sagewood Glen, Lake City, FL 32024 Phone ( 386 ) 755-5891 | REV: |




## LEFT ELEVATION

SCALE: 1/4 IN. = 1 FT.




## REAR ELEVATION

SCALE: 1/4 IN. = 1 FT.

## ATTIC VENTILATION

Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain. Ventilating openings shall be provided wit corrosion–resistant wire mesh, wit h 1 / 8 inch (3.2 mm) minimum t ¼ inch (6.4 mm) maximum openings.

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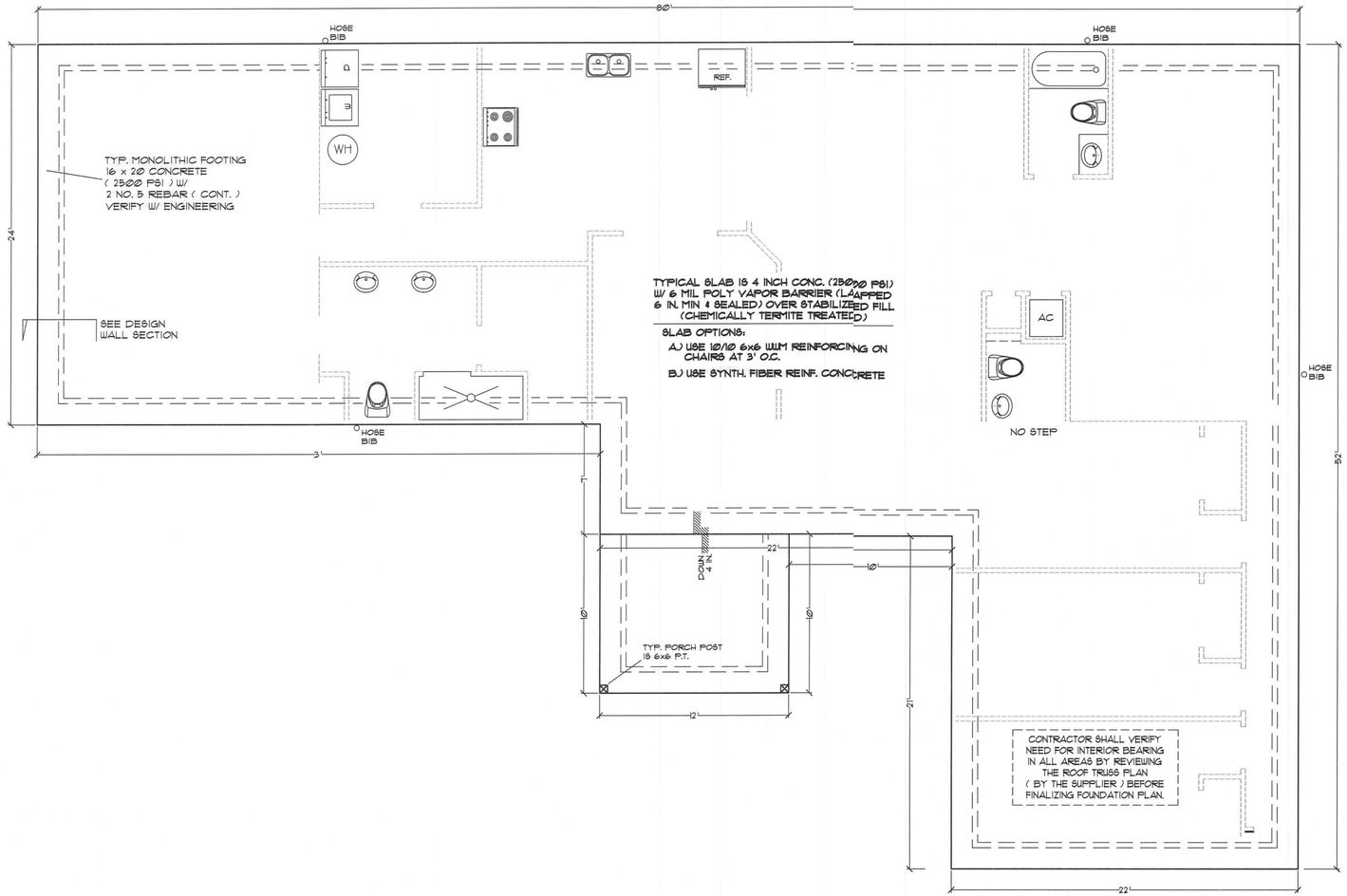
Location:_____ Job No.: 191327

MARK D. DISOSWAY LICENSE No 53915 STATE OF FLORIDA PROFESSIONAL ENGINEER

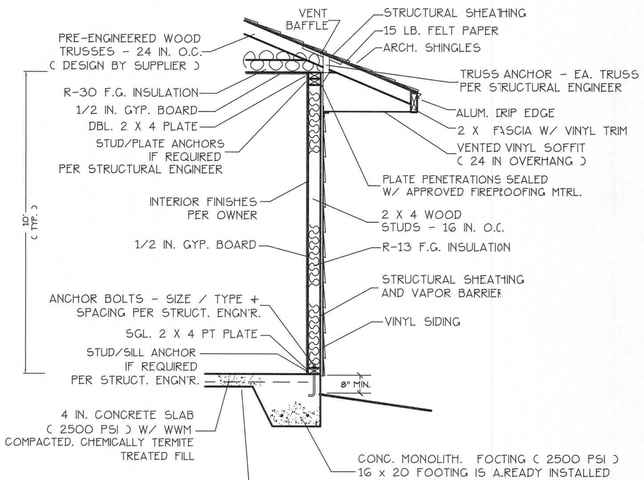
A-3

| | | |
|---|---|---|
| FILE: 17-001 | TERRANCE JONES | SHEET: 3 OF 5 |
| DATE: 11-30-19 | | CAD FILE: 17-001 |
| DRAWN: T A D | TIM DILBENI Residential Design / Drafting | REV: |
| CHECK: T A D | 182 SW Sagewood Glen, Lake City, FL 32024 Phone ( 386 ) 755-5851 | REV: |




## FOUNDATION PLAN

SCALE: 1/4 IN. = 1 FT.




**WALL SECTION NOTES:**

- This Typical Wall Section is for Estimating purposes only.
- All data shown in this Wall Section shall be subject to review and final input by the Structural Engineer.

## DESIGN WALL SECTION

NON-STRUCTURAL DATA

SCALE: 1/2 IN. = 1 FT.

**FOUNDATION NOTES:**

- CONTRACTOR SHALL EXAMINE ROOF TRUSS PLAN ( BY SUPPLIER ) TO DETERMINE ANY ADDITIONAL BEARING REQUIREMENTS BEFORE FINALIZING THE FOUNDATION PLAN.
- ALL CONCRETE IS 2500 PSI STRENGTH ( MIN. )
- VERIFY DIMENSIONS WITH FLOOR PLAN
- SITE ANALYSIS AND PREPARATION DATA IS NOT A PART OF THIS PLAN AND IS THE RESPONSIBLITY OF THE CONTRACTOR / OWNER.

WINDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with the 5th Edition Florida Building Code Residential (2014) to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location. In case of conflict, structural requirements, scope of work, and builder responsibilities on sheet S-1 control.

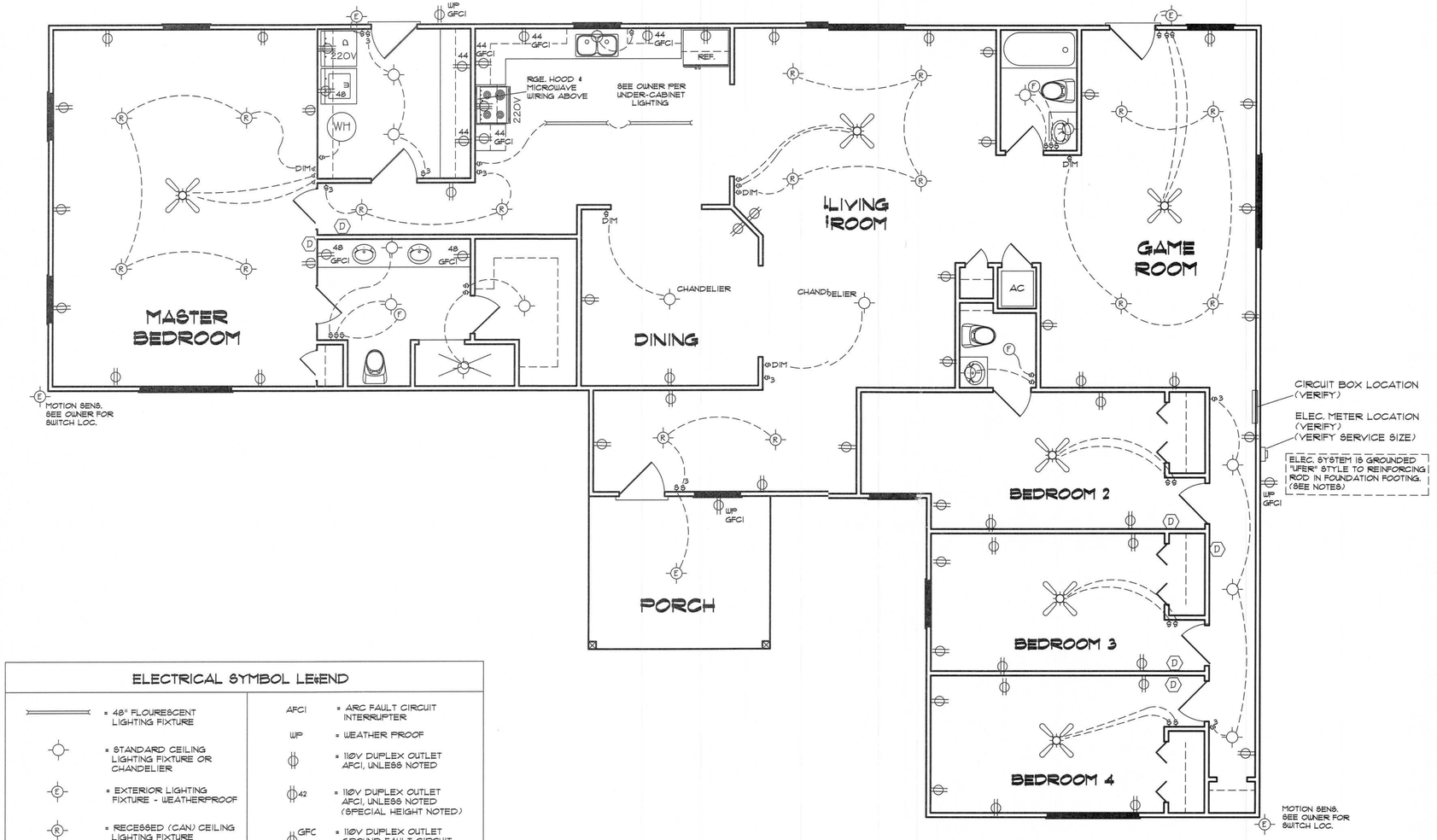
Location:_____ Job No.: 191327

STATE OF FLORIDA MARK DISOSWAY No. 53915 PROFESSIONAL ENGINEER

2019-12-11

A-4

| | | |
|---|---|---|
| FILE: 17-001 | TERRANCE JONES | SHEET: 4 OF 5 |
| DATE: 11-30-19 | | CAD FILE: 17-001 |
| DRAWN: T A D | TIM DELBENE Residential Design / Drafting | REV: |
| CHECK: T A D | 152 SW Sagewood Glen, Lake City, FL 32024. Phone ( 386 ) 755-5891 | REV: |




## ELECTRICAL PLAN NOTES

- ALL INSTALLATIONS ARE PER NAT'L. ELECTRIC CODE (NEC) 2008.
- ALL RECEPTACLES, UNLESS NOTED OTHERWISE, SHALL BE ARC FAULT CIRCUIT INTERRUPTER (AFCI) TYPE. ALSO, RECEPTACLES, UNLESS NOTED, SHALL BE TAMPER RESISTANT.
- GROUNDING OF ELECTRICAL SYSTEM SHALL BE BY "UFER" STYLE GROUNDING METHOD TO REINFORCING ROD IN CONCRETE FOUNDATION FOOTING (NEC 250.52 - GROUNDING ELECTRODES).
- WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.
- ELECTRICAL CONT'R SHALL BE RESPONSIBLE FOR THE DESIGN & SIZING OF ELECTRICAL SERVICE AND CIRCUITS.
- ENTRY OF SERVICE ( UNDERGROUND OR OVERHEAD ) TO BE DETERMINED BY POWER COMPANY.
- TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION 2008.
- CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.
- LOW VOLTAGE ITEMS (TELEPHONE, CATV, DATA CABLING) IS SHOWN, IF REQUESTED BY OWNER / BUILDER. CONSULT OWNER FOR REQUIREMENTS IF NOT SHOWN ON ELECTRICAL PLAN.
- ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS. THEY SHALL ALSO PROVIDE CARBON MONOXIDE DETECTION.

## ELECTRICAL SYMBOL LEGEND

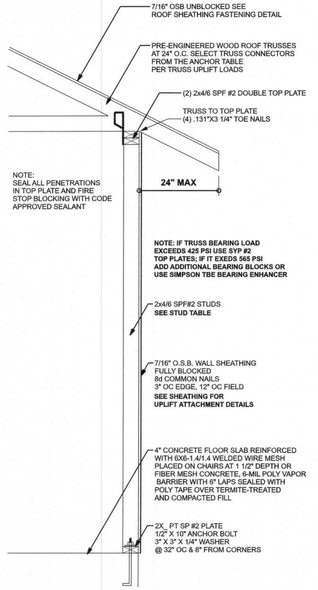
| | |
|---|---|
| ═══ = 48" FLOURESCENT LIGHTING FIXTURE | AFCI = ARC FAULT CIRCUIT INTERRUPTER |
| | WP = WEATHER PROOF |
| = STANDARD CEILING LIGHTING FIXTURE OR CHANDELIER | = 110V DUPLEX OUTLET AFCI, UNLESS NOTED |
| (E) = EXTERIOR LIGHTING FIXTURE - WEATHERPROOF | 42 = 110V DUPLEX OUTLET AFCI, UNLESS NOTED (SPECIAL HEIGHT NOTED) |
| (R) = RECESSED (CAN) CEILING LIGHTING FIXTURE | GFC = 110V DUPLEX OUTLET GROUND FAULT CIRCUIT INTERRUPTER TYPE |
| S = SGL. POLE LIGHT SWITCH. | 220 = 220 VOLT OUTLET ( 4 WIRE ) |
| $S_3$ = THREE-WAY SWITCH. | |
| $S_4$ = FOUR-WAY SWITCH. | = FAN LOCATION ( CEILING ) |
| $S_{DIM}$ = DIMMER SWITCH | (F) = FAN LOCATION ( EXHAUST ) |
| (D) = SMOKE & CARBON MONOXIDE DETECTOR (SEE NOTES) | |

## ELECTRICAL PLAN

NOT TO SCALE

A-5

| | | |
|---|---|---|
| FILE: 17-001 | TERRANCE JONES | SHEET: 5 OF 5 |
| DATE: 11-30-19 | | CAD FILE: 7-001 |
| DRAWN: T A D | TIM DELBENE Residential Design / Drafting | REV: |
| CHECK: T A D | 192 SW Sagewood Glen, Lake City, FL 32024 Phone ( 386 ) 755-5851 | REV: |




## ONE STORY WALL SECTION

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

RING-SHANK NAILS SHALL HAVE THE FOLLOWING MINIMUM DIMENSIONS:

1. 0.113 INCH NOMINAL ROOT SHANK DIAMETE
2. RING DIAMETER OF 0.010 OVER SHANK DIATER
3. 16 TO 20 RINGS PER INCH
4. 0.280 INCH FULL ROUND HEAD DIAMETER
5. 2-3/8 INCH NAIL LENGTH

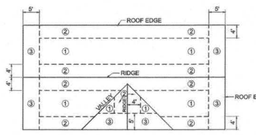
NAILING PATTERN SHALL BE:

4" OC GABLE END (SEE GABLE BRACING DETAI

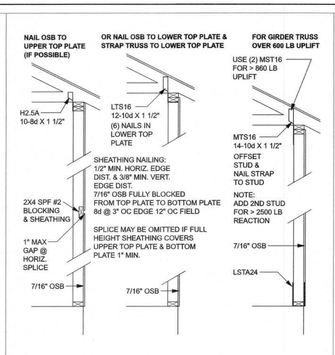
6" OC @ EDGES ALL ZONES

6" OC @ INTERMEDIATE FRAMING IN ZONE 3

12" OC @ INTERMEDIATE FRAMING IN ZONE 1 &

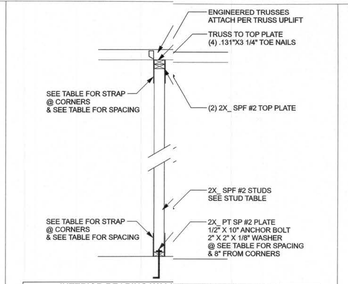



## ROOF SHEATHING FASTENING




## SHEATHING FOR UPLIFT ATTACHMENT DETAILS

**ONE STORY WOOD FRAME**




## (TYP.) INTERIOR BEARING WALL

**ONE STORY WOOD FRAME**

**INTERIOR BEARING WALL UPLIFT STRAP TABLE**

| Uplift on wall | Top Connection | Bottom Connection | Anchor Bolt Spacing |
|---|---|---|---|
| 227 plf | SP2 @ 32" OC | SP1 @ 32" OC | 48" OC |
| 454 plf | SP2 @ 16" OC | SP1 @ 16" OC | 32" OC |
| 309 plf | LSTA24, 14-10d @ 48" OC Wrap Under Plate | LSTA24, 14-10d @ 48" OC Wrap Over Plate | 48" OC |
| 465 plf | LSTA24, 14-10d @ 32" OC Wrap Under Plate | LSTA24, 14-10d @ 32" OC Wrap Over Plate | 32" OC |

**CONNECTOR TABLE**

| Uplift SP | Uplift SPF | Truss Connector | To Plate | To Truss/Rafter |
|---|---|---|---|---|
| 615 | 485 | SDWC15600 | - | - |
| 415 | 290 | H3 | 4-8d x 1 1/2" | 4-8d x 1 1/2" |
| 575 | 495 | H2.5A | 5-8d x 1 1/2" | 5-8d x 1 1/2" |
| 1340 | 1015 | H10A | 9-10d 1 1/2" | 9-10d 1 1/2" |
| 720 | 620 | LTS12-20 | 6-10d 1 1/2" | 6-10d 1 1/2" |
| 1000 | 860 | MTS12-30 | 7-10d 1 1/2" | 7-10d 1 1/2" |
| 1450 | 1245 | HTS20-30 | 12-10d 1 1/2" | 12-10d 1 1/2" |
| **Uplift SP** | **Uplift SPF** | **Strap Ties** | **To One Member** | **To Other Member** |
| 1235 | 1235 | LSTA21 | 8-10d | 8-10d |
| 1640 | 1455 | MSTA24 | 9-10d | 9-10d |
| 1030 | 1030 | CS20 | 7-10d | 7-10d |
| **Uplift SP** | **Uplift SPF** | **Stud Plate Ties** | **To Stud** | **To Plate** |
| 585 | 535 | SP1 | 6-10d | 4-10d |
| 1065 | 605 | SP2 | 6-10d | 6-10d |
| 771 | 771 | LSTA24 | 10-10d | wrap under or over plate |
| 1235 | 1235 | LSTA24 | 14-10d | wrap under or over plate |
| **Uplift SP** | **Uplift SPF** | **Holdowns @ Stemwall** | **To Stud / Post** | **Anchor** |
| 1825 | 1800 | DTT2Z | 8-SDS 1/4"x1 1/2" | 1/2"x8" Titen HD |
| 4235 | 3640 | HTT4 | 18-16dx2 1/2" | 1/2"x12" Titen HD |
| **Uplift SP** | **Uplift SPF** | **Holdowns @ Mono** | **To Stud / Post** | **Anchor** |
| 1825 | 1800 | DTT2Z | 8-SDS 1/4"x1 1/2" | 1/2"x8" Titen HD |
| 4235 | 3640 | HTT4 | 18-16dx2 1/2" | 1/2"x12" Titen HD |
| **Uplift SP** | **Uplift SPF** | **Post Bases @ Stemwall** | **To Post** | **Anchor** |
| 2200 | | ABU44 | 12-16d | 5/8"x12" Drill & Epoxy |
| 2300 | | ABU66 | 12-16d | 5/8"x12" Drill & Epoxy |
| **Uplift SP** | **Uplift SPF** | **Post Bases @ Mono** | **To Post** | **Anchor** |
| 2200 | | ABU44 | 12-16d | 5/8"x7" Drill & Epoxy |
| 2300 | | ABU66 | 12-16d | 5/8"x7" Drill & Epoxy |

**EXTERIOR WALL STUD TABLE FOR SPF #2 STUDS:**

**THIS STUD HEIGHT TABLE IS PER 2012 WFCM, TABLE 3.20B5, EXTERIOR LOAD BEARING & NON LOAD BEARING STUD LENGTHS FOR WALLS WITH OSB EXTERIOR AND 1/2" GYP INTERIOR. RESISTING INTERIOR ZONE WINDLOADS, 130 MPH, EXPOSURE C, STUD DEFLECTION LIMIT H/240 (NOT OK FOR BRITTLE FINISH). STUD SPACINGS SHALL BE MULTIPLIED BY 0.8 FOR FRAMING LOCATED WITHIN 4 FEET OF CORNERS FOR END ZONE LOADING. (END ZONE EXAMPLE 16" O.C. x 0.8 = 12.8" O.C.)**

| | |
|---|---|
| (1) 2x4 @ 16" OC | TO 10'-1" STUD HEIGHT |
| (1) 2x4 @ 12" OC | TO 11'-2" STUD HEIGHT |
| (1) 2x6 @ 16" OC | TO 15'-7" STUD HEIGHT |
| (1) 2x6 @ 12" OC | TO 17'-3" STUD HEIGHT |

**GRADE & SPECIES TABLE**

| | | Fb | E |
|---|---|---|---|
| 2x8 | SP #2 | 925 | 1.4 |
| 2x10 | SP #2 | 800 | 1.4 |
| 2x12 | SP #2 | 750 | 1.4 |
| GLB | 24F-V3 SP | 2600 | 1.9 |
| LSL | TIMBERSTRAND | 1700 | 1.7 |
| LVL | MICROLAM | 2950 | 2.0 |
| PSL | PARALAM | 2900 | 2.0 |

## GENERAL NOTES:

TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBCR. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS WITH MIN. UPLIFT CONNECTION 415LB EACH END; 2X8 RAFTERS 700 LB EACH END.

SITE PREPARATION: SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN

FOUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET GRAVITY LOAD REQUIREMENTS (ASSUME 1500 PSF BEARING CAPACITY UNLESS VISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE)

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, F'c = 2500 PSI.

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE OF THE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTH 1/2 INCH TO 2 INCHES. DOSAGE AMOUNTS FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD PER THE MANUFACTURER'S RECOMMENDATIONS. FIBERS TO COMPLY WITH ASTM C 1116. SUPPLIER TO PROVIDE ASTM C 1116 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIO OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT WWM OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 40, DEFORMED BARS; FY = 40 KSI. ALL LAP SPLICES 40 * DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-96, U.N.O.

ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 7/16" OSB SHEATHING, UNBLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

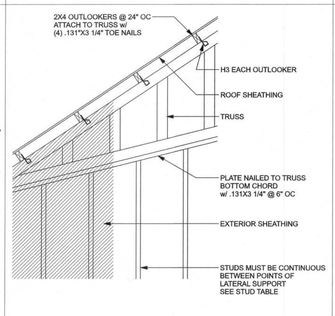
ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

**BUILDER'S RESPONSIBILITY:**

| THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH ARE SPECIFICALLY NOT PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK. |
|---|
| CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE. |
| PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBCR REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES. |
| PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU BELIEVE THE PLAN OMITS A CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY. |
| VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. |

**ROOF SYSTEM DESIGN:**

THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBCR, IS BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN TRUSS ENGINEERING SUBMITTED TO THE WIND LOAD ENGINEER. IT IS THE RESPONSIBILITY OF THE BUILDER TO CHECK ALL DETAILS OF THE COMPLETE ROOF SYSTEM DESIGN SUBMITTED BY THE TRUSS MANUFACTURER AND HAVE IT SIGNED, AND SEALED BY A DESIGN PROFESSIONAL FOR CORRECT APPLICATION OF FBCR REQUIRED LOADS AND ANY SPECIAL LOADS. THE BUILDER IS RESPONSIBLE TO REVIEW EACH INDIVIDUAL TRUSS MEMBER AND THE TRUSS ROOF SYSTEM AS A WHOLE AND TO PROVIDE RESTRAINT FOR ANY LATERAL BRACING. THE BUILDER SHOULD USE CARE CHECKING THE ROOF DESIGN BECAUSE THE WIND LOAD ENGINEER IS SPECIFICALLY NOT RESPONSIBLE FOR THE TRUSS LAYOUT WHICH WAS CREATED BY THE TRUSS MANUFACTURER AND THE TRUSS DESIGNER ALSO DENIES RESPONSIBILITY FOR THE LAYOUT PER NOTES ON THEIR SEALED TRUSS SHEETS.




**SPACE RAT RUN & DIAGONAL BRACE 6'-0" O.C. FOR GABLE HEIGHT UP TO 25'-0" 130 MPH, EXP;, ENCLOSED**

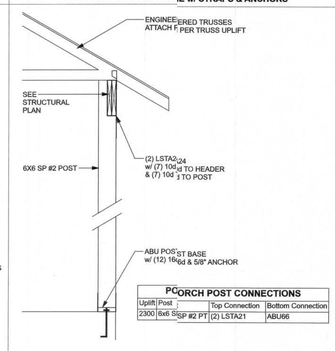
## (TYP.) GABLE BRACING DITAIL

**WOOD FRAME**




## (TYP.) GABLE WALL w/ VAULTED CEILING

**WOOD FRAME**

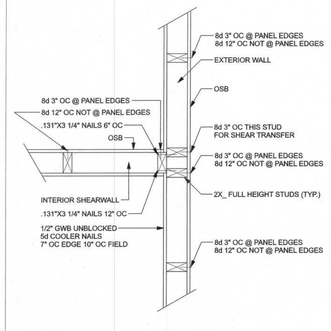



**PORCH POST CONNECTIONS**

| Uplift | Post | Top Connection | Bottom Connection |
|---|---|---|---|
| 2300 | 6x6 SPF #2 PT | (2) LSTA21 | ABU66 |

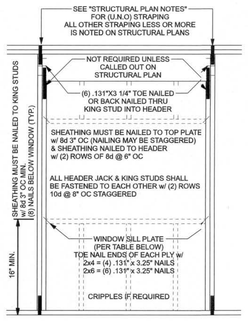
## (TYP.) PORCH POST

**ONE STORY WOOD**




## (TYP.) INTERSECTING WALL FRAMING

**WOOD FRAME**




## TYPICAL HEADER STRAPING DETAIL

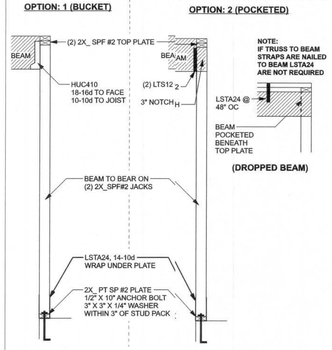
**ONE STORY WOOD FRAME w/ STRAPS & ANCORS**

**HEADER STRAP TABLE**

| Uplift | Top Connection | Bottom Connection |
|---|---|---|
| < 1235 | LSTA24, 14-10d wrap over plate | LSTA24, 14-10d wrap under plate 1/2" x 10" Anchor bolt w/ 3" x 3" x 1/4" washer must be located within 6" of king stud @ all door locations |
| < 1455 | MSTA24, 18-10d header to jacks | DTT2Z |
| < 1800 | (2) MSTA24, 18-10d header to jacks | DTT2Z |
| < 2910 | (2) MSTA24, 18-10d header to jacks | HTT4 |

**SILL PLATE SPANS FOR 10'-0" WALL HEIGHT**

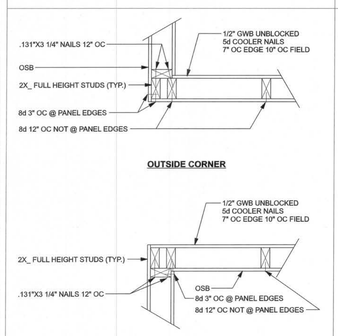
| DESIGN WIND SPEED | MAX. SPANS FOR SPF #2 (1) 2x4 | (2) 2x4 | (1) 2x6 | (2) 2x6 | BASED ON WFCM TABLE A-3.23B |
|---|---|---|---|---|---|
| 130 MPH EXP: C | 5'-2" | 7'-9" | 7'-7" | 11'-3" | FOR OTHER WALL HEIGHTS (H) SILL SPAN SHALL BE DIVIDED BY (H/10) |




## (TYP.) BEAM TO WALL

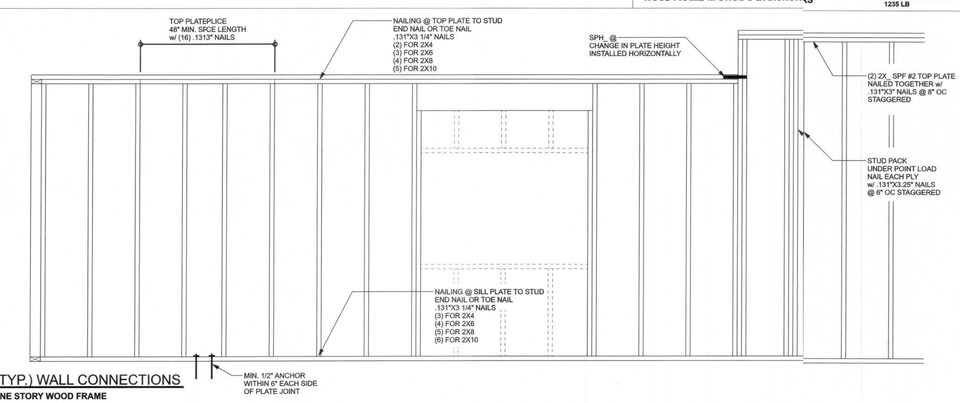
**WOOD FRAME w/ STRAPS & ANCHORS**

**ALLOWABLE UPLIFT: 1235 LB**




## (TYP.) CORNER FRAMING

**WOOD FRAME**




## (TYP.) WALL CONNECTIONS

**ONE STORY WOOD FRAME**

**DESIGN CRITERIA & LOADS:**

| | |
|---|---|
| BUILDING CODE | 6TH EDITION FLORIDA BUILDING CODE RESIDENTIAL (2017) |
| CODE FOR DESIGN LOADS | ASCE 7-10 |
| **WINDLOADS** | |
| BASIC WIND SPEED (ASCE 7-10, 3S GUST) | 130 MPH |
| WIND EXPOSURE (BUILDER MUST FIELD VERIFY) | C |
| TOPOGRAPHIC FACTOR (BUILDER MUST FIELD VERIFY) | I |
| RISK CATEGORY | II |
| ENCLOSURE CLASSIFICATION | ENCLOSED |
| INTERNAL PRESSURE COEFFICIENT | 0.18 |
| ROOF ANGLE | 7-45 DEGREES |
| MEAN ROOF HEIGHT | 30 FT |
| **C&C DESIGN PRESSURES** | SEE TABLE |
| **FLOOR LOADING** | |
| ROOMS OTHER THAN SLEEPING ROOM | 40 PSF LIVE LOAD |
| SLEEPING ROOMS | 30 PSF LIVE LOAD |
| **ROOF LOADING** | |
| FLAT OR < 4:12 | 20 PSF LIVE LOAD |
| 4:12 TO < 12:12 | 16 PSF LIVE LOAD |
| 12:12 & GREATER | 12 PSF LIVE LOAD |
| **SOIL BEARING CAPACITY** | 1500 PSF |
| **FLOOD ZONE** | THIS BUILDING IS NOT IN THE FLOOD ZONE |

**COMPONENT & CLADING DESIGN PRESSURES 130 MPH (EXP C) (Vult)**

| EFFECTIVE WIND AREA (FT2) | ZONE 4 INTERIOR | | ZONE 5 END 4' FROM ALL OUTSIDE CORNER | |
|---|---|---|---|---|
| 0 - 20 | +42.6 | -46.2 | +42.6 | -57 |

**GARAGE DOOR DESIGN PRESSURES 130 MPH (EXP C) (ASD)**

| | | |
|---|---|---|
| 9x7 GARAGE DOOR | +22.6 | -25.5 |
| 16x7 GARAGE DOOR | +21.7 | -24.1 |

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

Jones, Terrance - Lot 12 Pinehills

PROJECT ADDRESS: Lot 12 Pinehills Columbia County, FL

DIMENSIONS: Stated dimesions supercede scaled dimensions.Refer all questions to Mark Disosway, P.E. for resolution. Do not proced without clarification.

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CERTIFICATION: I hereby certify that I have examined ths plan, and that the applicable portions of te plan, relating to wind engineering comply withthe 6th Edition Florida Building Coe Residential (2017) to the best c my knowledge.

LIMITATION: This design is valid for one building, at pecified location.

MARK DISOSWAY P.E. 53915

STATE OF FLORIDA PROFESSIONAL ENGINEER

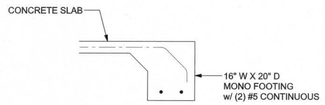
Mnday, December 9, 2019


Mark Disosway P.E.
163 SW Midtown Place
Suite 103
LakeCity, Florida 32025
386.754.5419
disoswaydesign@gmail.com


J0B NUMBER: 191327

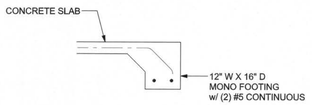
**S-1**

OF 3 SHEETS




F1 S-2 MONOLITHIC HOUSE FOOTING

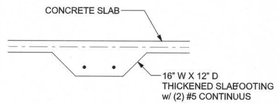
SCALE: 1/2" = 1'-0"




F2 S-2 MONOLITHIC PORCH FOOTING

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

**BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FBC 2014-RES. SECTION R403.1.4**

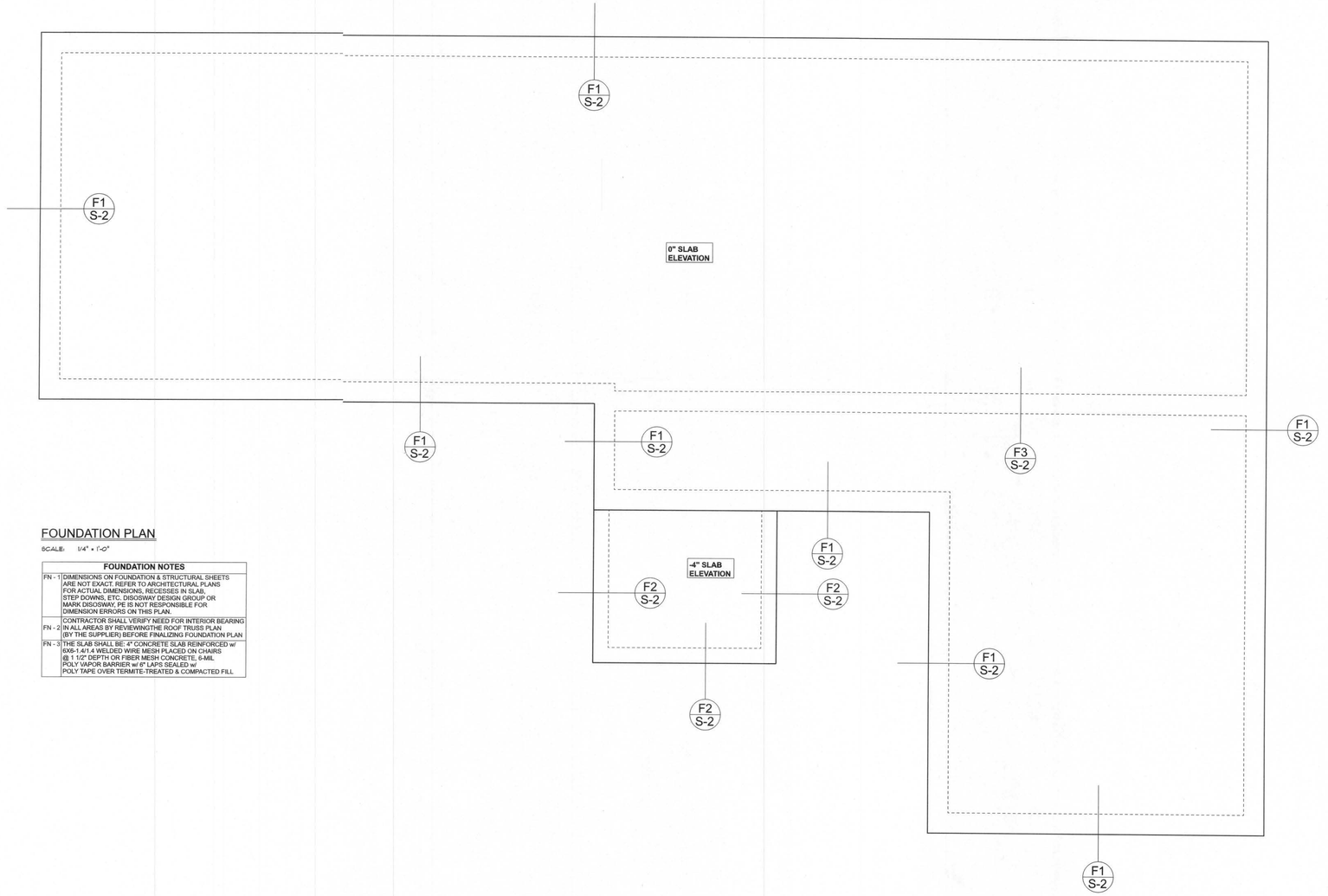



F3 S-2 INTERIOR BEARING FOOTING

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

**MASONRY NOTE:**
**MASONRY CONSTRUCTION AND MATERIALS FOR THIS PROJCT SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIN FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602). THE CONTRACTOR AND MASON MUST IMMEDIATELY, BEFOR PROCEEDING, NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN ACI 530.1-02 AND THESE DESIGN DRAWINGS. ANY EXCEPTIONS TO ACI 530.1-02 MUST BE APPROVED BY THE ENGINEER IN WRITING.**

| | ACI530.1-02 Section | Specific Requirements |
|---|---|---|
| 1.4A | Compressive strength | 8" block bearing walls F'm = 1500 psi |
| 2.1 | Mortar | ASTM C 270, Type N, UNO |
| 2.2 | Grout | ASTM C 476, admixtures require approl |
| 2.3 | CMU standard | ASTM C 90-02, Normal weight, Hollow, medium surface finish, 8"x8"x16" runnin bond and 12"x12" or 16"x16" column block |
| 2.3 | Clay brick standard | ASTM C 216-02, Grade SW, Type FBS, 5.5"x2.75"x11.5" |
| 2.4 | Reinforcing bars, #3 - #11 | ASTM 615, Grade 40, Fy = 40 ksi, Lap splices min 40 bar dia. (25" for #5) |
| 2.4F | Coating for corrosion protection | Anchors, sheet metal ties completely embedded in mortar or grout, ASTM A525, Class G60, 0.60 oz/ft2 or 304SS |
| 2.4F | Coating for corrosion protection | Joint reinforcement in walls exposed to moisture or wire ties, anchors, sheet me ties not completely embedded in mortar grout, ASTM A153, Class B2, 1.50 oz/ft2 or 304SS |
| 3.3.E.2 | Pipes, conduits, and accessories | Any not shown on the project drawings require engineering approval. |
| 3.3.E.7 | Movement joints | Contractor assumes responsibility for ty and location of movement joints if not detailed on project drawings. |




## FOUNDATION PLAN

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

| FOUNDATION NOTES | |
|---|---|
| FN - 1 | DIMENSIONS ON FOUNDATION & STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEP DOWNS, ETC. DISOSWAY DESIGN GROUP OR MARK DISOSWAY, PE IS NOT RESPONSIBLE FOR DIMENSION ERRORS ON THIS PLAN. |
| FN - 2 | CONTRACTOR SHALL VERIFY NEED FOR INTERIOR BEARING IN ALL AREAS BY REVIEWINGTHE ROOF TRUSS PLAN (BY THE SUPPLIER) BEFORE FINALIZING FOUNDATION PLAN |
| FN - 3 | THE SLAB SHALL BE: 4" CONCRETE SLAB REINFORCED w/ 6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS @ 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER w/ 6" LAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL |

Jones, Terrance - Lot 12 Pinehills

PROJECT ADDRESS:
Lot 12 Pinehills
Columbia County, FL

DIMENSIONS:
Stated dimensions supercede scaled dimensions Refer all questions to Mark Disosray, P.E. for resolution. Do not proceed without clarification.



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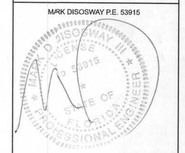
LIMITATION This design is valid for one building, at pecified location.

MARK DISOSWAY P.E. 53915




Mnday, December 9, 2019

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**Suite 103**
**LakeCity, Florida 32025**
**386.754.5419**
**disoswydesign@gmail.com**

J0B NUMBER:
191327

**S-2**
OF 3 SHEETS


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

## STRUCTURAL PLAN NOTES

SN-1 ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X10 SP #2 (U.N.O.)

SN-2 ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (U.N.O.)

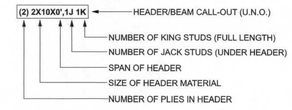
SN-3 ALL HEADERS w/ UPLIFT TO BE STRAPPED DOWN @ EACH SIDE WITH (1) LSTA24, 14-10d @ TOP & BOTTOM OF WALL WRAP UNDER BOTTOM PLATE & OVER TOP PLATE 1/2" X 10" ANCHOR BOLT w/ 3" X 3" X 1/4" WASHER MUST BE LOCATED WITHIN 6" OF KING STUD @ ALL DOOR LOCATIONS (U.N.O.)

SN-4 USE ONE JACK STUD GIRDER SUPPORT PER 2500 LB LOAD

SN-5 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT, REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS

SN-6 PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCSI1-03, BCSI-B1, BCSI-B2, & BCSI-B3, BCSI-B1, BCSI-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

## HEADER LEGEND




**ACTUAL vs REQUIRED SHEARWALL**

| | TRANSVERSE | LONGITUDUNAL |
|---|---|---|
| ACTUAL | 20157 LBF | 27038 LBF |
| REQUIRED | 14730 LBF | 9085 LBF |

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER. W.B. HOWLAND JOB #19-3781

Jones, Terrance - Lot 12 Pinehills

PROJECT ADDRESS:
Lot 12 Pinehills
Columbia County, FL

DIMENSIONS:
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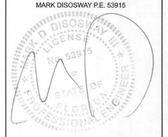


Monday, December 9, 2019

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**S-3**
OF 3 SHEETS