

A CUSTOM HOME FOR:
Lane Residence
1616 NW Moore Farms Rd.
Lake City, FL 32055

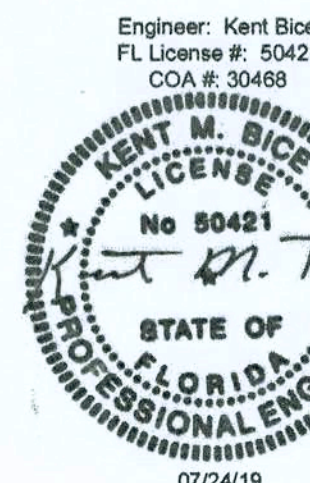
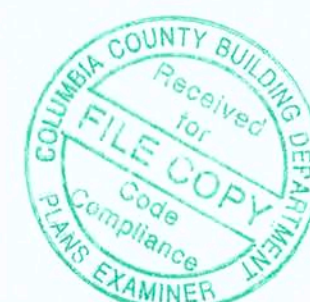


CODE CRITERIA

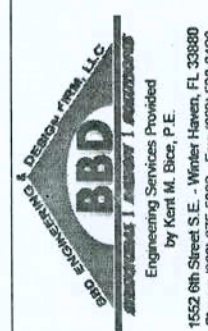
FLORIDA BUILDING & RESIDENTIAL CODE 6TH EDITION (2017)
NFPA 70-14, NATIONAL ELECTRICAL CODE (NEC) & 6TH FBRC Ch. 34-43
BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - (ACI 318-11)
SPECIFICATIONS FOR STRUCTURAL CONCRETE - (ACI 301-10)
BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES - (ACI 530-13)
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - 2015 EDITION
WOOD FRAMED CONSTRUCTION MANUAL 2015 EDITION
APA PLYWOOD DESIGN SPECIFICATION 2012 EDITION

WIND LOAD CRITERIA

| | |
|-------------------------------|-----------|
| WIND SPEED (ULTIMATE) | 140 MPH |
| WIND SPEED (ALLOWABLE) | 108.5 MPH |
| EXPOSURE CATEGORY | B |
| BUILDING RISK CATEGORY | II |
| BUILDING TYPE | V |
| ENCLOSURE CLASSIFICATION | ENCLOSED |
| INTERNAL PRESSURE COEFFICIENT | ± 0.18 |



CONTRACTOR TO VERIFY ALL AREA CALCULATIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION.



DRAWING NO. 219034

DATE: July, 2019

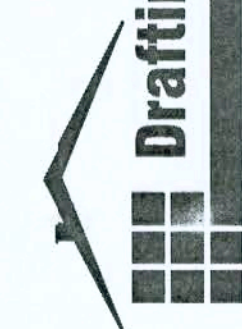
Cover Sheet

SHEET 1 of 9

CLIENT

Lane Residence
1616 NW Moore Farms Rd.
Lake City, FL 32055

NOTES:



Drafting Design Service, Inc.
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PLAN IS FOUND TO BE IN COMPLIANCE WITH THE STRUCTURAL PROVISIONS OF THE FLORIDA BUILDING CODE 2017 6TH EDITION (FBC), INCLUSIVE OF FRC2017 6TH EDITION (FRC) AND FBC 2017 6TH EDITION (FBC), OR ASCE 7-10 WHEN THE COMPONENTS EXCEED THE PRESCRIPTIVE DESIGNS WITHIN THE FBC, FRC, AND FBC.

DESIGN PARAMETERS SUMMARY

- I. WIND LOADS, (PER FBC/ASCE 7-10)
- A. RISK CATEGORY II, (TABLE 1604.5/TABLE 1.5-1)
- B. EXPOSURE CATEGORY B, (TABLE 1609.4.3/SECT 26.7.3)
- C. ULTIMATE DESIGN WIND SPEED, V_{ULT} 150 MPH (FIG 1609.3(1)/FIG 26.5-1A)
- D. NOMINAL DESIGN WIND SPEED, V_{ASD} = 116 MPH (1609.3/NA)
- E. INTERNAL PRESSURE COEFFICIENT, GCP= .18, ENCLOSED (NA/TABLE 26.11-1)
- F. COMPONENT AND CLADDING PRESSURES (FOR TESTED PRODUCTS) UNLESS SPECIFIED ON THE PLANS
1. WINDOWS, DOORS, SIDING AND SOFFITS (ZONES 4,5)
- a. FIRST FLOOR +30/40 PSF
- b. SECOND FLOOR +33/-44 PSF
2. ROOF COVERINGS (ZONES 1,2,3) SEE C&C LOADING CHART
- II. LIVE LOADS, PER 1607, INCLUSIVE BUT NOT LIMITED TO:
- A. ROOF LIVE LOAD 20 PSF
- B. FLOOR LIVE LOAD 40 PSF
- C. UNINHABITABLE ATTICS WITHOUT STORAGE 10 PSF
- D. UNINHABITABLE ATTICS WITH STORAGE 20 PSF
- III. DEAD LOADS, PER 1606, INCLUSIVE BUT NOT LIMITED TO:
- A. ROOF DEAD LOAD (TOP CHORD) 25 PSF
- B. ROOF DEAD LOAD (BOTTOM CHORD) 10 PSF
- C. FLOOR DEAD LOAD 20 PSF
- D. CONTRACTOR RESPONSIBLE FOR INFORMING EOR WHEN MATERIALS USED EXCEED DEAD LOADS LISTED ABOVE
- IV. FLOOD LOADS, PER ASCE CHAPTER 5 WHEN APPLICABLE

USE AND OCCUPANCY CLASSIFICATION, per FBC 101.2 Ene. 1. See FRC 2017 6TH ED

- I. CLASSIFICATION, RESIDENTIAL (Single or Two Family Dwellings) FRC 2017 6TH EDITION
- C. TYPE OF CONSTRUCTION V-B (All materials, Non-Sprinklered)
- II. ALLOWABLE BUILDING HEIGHT, UP TO 3 STORIES above grade plane per R101.2
- IV. ALLOWABLE BUILDING AREA, UNLIMITED

SPECIFICATIONS

ALL PRODUCTS TO BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS, NOT EXCEPTIONS OR MODIFICATIONS ALLOWED WITHOUT PROPER DOCUMENTATIONS FROM THE MANUFACTURER.

FLORIDA RESIDENTIAL CODE 2017 6TH EDITION, UNLESS NOTED SPECIFICALLY ON THE CONSTRUCTION DOCUMENTS, AS PER R301.3.1, ENGINEERED DESIGN, THE MORE STRINGENT SPECIFICATION APPLIES. ALL OTHER ASPECTS OF CODE COMPLIANCE NOT MENTIONED IN THIS STRUCTURAL SUPPLEMENT SHALL BE PER FBC2017, FRC2017, AND/OR FBC2017 6TH EDITION.

CODE REFERENCES

- I. BUILDING PLANNING SHALL COMPLY WITH CHAPTER 3, FRC, INCLUDING BUT NOT LIMITED TO:
- A. FIRE RESISTANT CONSTRUCTION PER R302
1. EXTERIOR WALL CONSTRUCTION PER R302.1; CONSTRUCTION, PROJECTIONS, OPENINGS AND PENETRATIONS OF EXTERIOR WALLS OF DWELLINGS AND ACCESSORY BUILDINGS SHALL COMPLY WITH TABLE R302.1
- a. WALLS WITHIN 3' OF PROPERTY LINE MUST BE 1-HR RATED, IN ACCORDANCE TO ASTM E 119 OR UL 263, WITH EXPOSURE FROM THE OUTSIDE OR CALCULATED PER FBC, BUILDING
- b. PROJECTIONS FROM 2' AND LESS THAN 3' OF PROPERTY LINE MUST BE 1-HR RATED FROM THE UNDERSIDE. NO PROJECTIONS ALLOWED WITHIN 2' OF PROPERTY LINE
- c. OPENINGS ARE NOT ALLOWED IN WALLS WITHIN 3' OF PROPERTY LINE
- d. PENETRATIONS MUST COMPLY WITH R302.4 WHEN WITHIN LESS THAN 3' OF PROPERTY LINE
2. DWELLING/GARAGE OPENING/PENETRATION PROTECTION SHALL COMPLY WITH R302.5
- a. DOOR SHALL BE 1 3/8" THICK, SOLID WOOD/SOLID OR HONEYCOMB CORE STEEL, OR 20 MIN FIRE RATED, PER R302.5.1
- b. DUCT PENETRATIONS SHALL BE OF NO. 26 GAUGE SHEET STEEL, 1 INCH MIN RIGID NONMETALLIC CLASS 0 DUCT BOARD, AND SHALL NOT HAVE OPENINGS INTO THE GARAGE, PER R302.5.2

3. DWELLING/ GARAGE SEPARATION SHALL COMPLY WITH R302.6 AND TABLE R302.6 & ATTACHED PER R702.3.5
- a. FROM RESIDENCE AND ATTIC- MIN 1/2" GYPSUM BOARD APPLIED TO GARAGE SIDE
- b. FROM ALL HABITABLE ROOMS ABOVE GARAGE- MIN 5/8" TYPE X GYPSUM BOARD APPLIED TO THE GARAGE SIDE
4. FIRE BLOCKING SHALL COMPLY WITH R302.1
5. DRAFT STOPPING SHALL COMPLY WITH R302.12
6. LIGHT, VENTILATION AND HEATING SHALL COMPLY WITH R303
- C. GLAZING SHALL COMPLY WITH R308
- D. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL COMPLY WITH R310
- E. MEANS OF EGRESS SHALL COMPLY WITH R311
- F. GUARDS AND WINDOW FALL PROTECTION SHALL COMPLY WITH R312
- G. SMOKE ALARMS SHALL COMPLY WITH R314
1. POWER SOURCE PER R314.6; SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE, AND WHEN PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. SMOKE ALARMS ARE PERMITTED TO BE BATTERY OPERATED WHEN INSTALLED IN BUILDINGS WITHOUT COMMERCIAL POWER. INTERCONNECTION PER R314.4; WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT IN ACCORDANCE WITH SECTION R314.3, THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT.
- PHYSICAL INTERCONNECTION OF SMOKE ALARMS SHALL NOT BE REQUIRED WHERE LISTED WIRELESS ALARMS ARE INSTALLED AND ALL ALARMS SOUND UPON ACTIVATION OF ONE ALARM.
- H. CARBON MONOXIDE ALARMS SHALL COMPLY WITH R315
- I. PROTECTION OF WOOD AGAINST DECAY SHALL COMPLY WITH R317
- J. PROTECTION AGAINST TERMITES SHALL COMPLY WITH R318, INSPECTION PER R318.7
1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED TO RE-INSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRICAL PANEL
2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1' AWAY FROM BUILDING SIDE WALLS
3. IRRIGATION/SPRINKLER SYSTEM INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1' OF THE BUILDING SIDE WALLS
4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERING AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6", DOES NOT APPLY TO PAINT OR DECORATIVE CEMENTITIOUS FINISH LESS THAN 5/8" APPLIED DIRECTLY TO THE FOUNDATION WALL
5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION, BACKFILLING & COMPACTION IS COMPLETE
6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED
7. BOXED AREAS IN CONCRETE FLOORS FOR SUBSEQUENT INSTALLATION OF PLUMBING TRAPS, DRAINS OR ANY OTHER PURPOSE SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT.
8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED.
9. CONCRETE OVER POUR AND MORTAR ALONG FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT
10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1' OF THE STRUCTURE SIDEWALLS
11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED PROMPTLY AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DESTROYED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE PROMPTLY RETREATED.
12. ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT
13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED.
- THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."
14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND DEBRIS SHALL BE REMOVED FROM BELOW AND WITHIN 1' OF THE BUILDING. THIS INCLUDES BUT IS NOT LIMITED TO ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL FBC 2304.12.9.3
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC SHALL BE BURIED WITHIN 15' OF ANY BUILDING OR PROPOSED BUILDING
- K. ACCESSIBILITY SHALL COMPLY WITH R320 AND THE FBC, ACCESSIBILITY
- L. FLOOD RESISTANT CONSTRUCTION, WHEN APPLICABLE, SHALL COMPLY WITH R322, INSTALLED IN ACCORDANCE WITH SECTION R322.2.1 AND AS DESIGNATED BY LOCAL JURISDICTION. THE TOTAL NET AREA OF NON-ENGINEERED OPENINGS SHALL BE NOT LESS THAN 1 SQUARE INCH FOR EACH SQUARE FOOT OF ENCLOSED AREA WHERE THE ENCLOSED AREA IS MEASURED ON THE EXTERIOR OF THE ENCLOSURE WALLS, OR THE OPENINGS SHALL BE DESIGNED AS ENGINEERED OPENINGS AND THE CONSTRUCTION DOCUMENTS SHALL INCLUDE A STATEMENT BY A REGISTERED DESIGN PROFESSIONAL AT THE DESIGN OF THE OPENINGS WILL PROVIDE EQUIVALENT OF HYDROSTATIC FLOOD FORCES ON THE EXTERIOR WALLS BY ALLOWING FOR THE AUTOMATIC ENTRY AND EXIT OF FLOODWATERS AS SPECIFIED BY SECTION 2.7.2.2 OF ASCE 24
- M. ALL HABITABLE CONDITIONED SPACE TO BE ABOVE FLOOD ELEVATION PER CHAPTER 2, SECTION 202 OF FRC: HABITABLE SPACE SHALL BE DEFINED AS A SPACE IN A STRUCTURE FOR LIVING, SLEEPING, EATING OR COOKING
- II. FOUNDATIONS PER CHAPTER 4, FRC, INCLUDING BUT NOT LIMITED TO:
- A. SOIL BEARING CAPACITY BASED UPON 2,000 PSF
- B. ALL SOILS SHALL BE FREE OF DEBRIS AND ORGANIC MATERIALS AND PROPERLY COMPACTED
- C. COMPACTED FILL MATERIAL SHALL NOT EXCEED 12" LIFTS

- D. MINIMUM DEPTH OF EXTERIOR FOOTINGS SHALL BE 12" BELOW UNDISTURBED GROUND SURFACE
- E. WATERPROOFING AND DAM PROOFING SHALL COMPLY WITH R406
- III. FLOORS PER CHAPTER 5, FRC, INCLUDING BUT NOT LIMITED TO:
- A. WOOD FLOOR FRAMING SHALL COMPLY WITH R502, WOOD TRUSS DESIGNS SHALL BE DELEGATED TO A SPECIALTY ENGINEER AND SHALL COMPLY WITH R502.11
- B. FLOOR SHEATHING SHALL COMPLY WITH R503, AND SHALL BE 3/4" GLUED AND NAILED WITH 10D AT 6" OC U.N.O.
- C. CONCRETE FLOORS ON GROUND SHALL COMPLY WITH R506
1. SHALL BE A MIN 3 1/2" THICK WITH COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS
2. SHALL CONTAIN 6X6 W/1.4 X W/1.4 WELDED WIRE MESH, MAY SUBSTITUTE WMM WITH SYNTHETIC FIBER REINFORCEMENT
- IV. CONCRETE PER CHAPTER 19, FRC, INCLUDING BUT NOT LIMITED TO:
- A. SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS
- B. CONCRETE MIXTURES SHALL CONFORM TO THE MOST RESTRICTIVE MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIOS AND MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH REQUIREMENTS OF ACI 318
- C. REINFORCEMENT SHALL BE GRADE 60 AND SHALL COMPLY WITH ACI 318 CHAPTER 20 AND 25
- D. ALL BOLTS SHALL CONFORM TO ASTM A307 AND ACI 318
- V. STEEL PER CHAPTER 22, FRC, INCLUDING BUT NOT LIMITED TO:
- A. STRUCTURAL STEEL SHALL COMPLY WITH AISI 360
- B. COLD FORMED STEEL SHALL COMPLY WITH AISI 3100 AND AISI 5200
- C. IDENTIFICATION AND PROTECTION SHALL BE PROVIDED PER FBC SECTION 2203
- D. WELDING AND CONNECTIONS NOT SPECIFIED ON PLANS SHALL COMPLY WITH FBC SECTION 2204
- VI. WALL CONSTRUCTION PER CHAPTER 6, FRC, INCLUDING BUT NOT LIMITED TO:
- A. WOOD WALL FRAMING SHALL COMPLY WITH R602 AND WOOD SHALL COMPLY WITH FBC CHAPTER 23
1. IDENTIFICATION PER R602.1, ROOF FRAMING SHALL BE TYP #2, ALL OTHER LUMBER SPECIFIED SHALL BE SPF #2, UNLESS NOTED OTHERWISE
2. NON LOAD BEARING WALLS PER R602.5 & R602.7.4
3. DESIGN AND CONSTRUCTION PER R602.3, ANSI AWC NDS, AND AWC WFCM
- a. SAWN LUMBER SHALL COMPLY WITH DOC P520
- b. 1-JOIST SHALL COMPLY WITH ASTM D 5085
- c. GLUE LAMINATED LUMBER SHALL COMPLY WITH ANSI/ATC A 190.1 AND ASTM D 3737, DESIGN BASED UPON MICROLAM, GLU-LAM, VERSALAM PRODUCTS, UNLESS SPECIFIED DIFFERENTLY
- d. WOOD STRUCTURAL PANELS SHALL COMPLY WITH DOC P51, DOC P52 OR ANSI/APA PRP 210 AND SECTION R604
- e. ALL FRAMING NOT SPECIFICALLY DETAILED SHALL COMPLY WITH FASTENING SCHEDULE PROVIDED IN FBC TABLE 2304.10.1
- B. GENERAL MASONRY CONSTRUCTION SHALL COMPLY WITH R606 AND FBC CHAPTER 21
1. MASONRY CONSTRUCTION SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH TMS 403 OR TMS 402/ACI308/ASCE 5
2. MASONRY UNITS SHALL BE HOLLOW UNIT MASONRY IN ACCORDANCE WITH ASTM C90 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI
3. MASONRY UNITS SHALL BE RUNNING BOND
4. REINFORCING STEEL SHALL COMPLY WITH R606 AND SHALL BE GRADE 60, WITH A MINIMUM 2" COVERAGE FROM THE INSIDE EDGE OF THE MASONRY UNIT AND SHALL HAVE THE FOLLOWING MINIMUM LAP SPLICES:
- a. #5 REBAR SHALL BE SPLICED A MINIMUM OF 25"
- b. #6 REBAR SHALL BE SPLICED A MINIMUM OF 44"
- c. #7 REBAR SHALL BE SPLICED A MINIMUM OF 59"
- C. UNIT MASONRY SHALL COMPLY WITH R606 AND FBC CHAPTER 21
1. MORTAR SHALL COMPLY WITH R606 OR THE PROPERTY SPECIFICATION OF ASTM C270
2. INSTALLATION OF WALL TIES SHALL COMPLY WITH R606
- D. GROUTED MASONRY SHALL COMPLY WITH R606
1. GROUT SHALL COMPLY WITH R606 AND ASTM C 476
2. PRECAST LINTELS SPECIFIED SHALL COMPLY WITH MANUFACTURERS SPECIFICATIONS, DESIGNS BASED UPON CAST-CRETE PRECAST LINTELS
- E. CLADDING MATERIALS SHALL COMPLY WITH R607
- F. EXTERIOR WINDOWS AND DOORS SHALL COMPLY WITH R609 AND SHALL MEET THE DESIGN PRESSURES LISTED IN THE DESIGN PARAMETERS SECTION ABOVE U.N.O. WITHIN THE PLANS
1. WHEN THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES ABOVE FINISHED GRADE, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES ABOVE THE FINISHED FLOOR
2. TESTED AND LABELED IN ACCORDANCE WITH R609.3
3. EXTERIOR DOOR ASSEMBLIES SHALL COMPLY WITH R609.5 AND ASTM E330
4. SECTIONAL GARAGE DOORS SHALL COMPLY WITH R609.4 AND SHALL BE TESTED IN ACCORDANCE WITH ANSI/DASMA 18, ASTM E330 OR TAP 202 AND LABELED ACCORDING TO R609.4.1

5. PROTECTION OF OPENINGS SHALL COMPLY WITH R301.2.1.2
6. MULLIONS SHALL COMPLY WITH R609.8 AND BE CAPABLE OF RESISTING A LOAD 1.5 TIMES THE PRESSURE SPECIFIED ON THE PLANS
- G. IMPACT RESISTANT COVERINGS SHALL COMPLY WITH R609.11 AND SHALL BE TESTED AT 1.5 TIMES THE DESIGN PRESSURES SPECIFIED IN THE DESIGN PARAMETERS SECTION ABOVE
- H. SOFFITS SHALL BE TESTED AT 1.5 TIMES THE SPECIFIED DESIGN PRESSURE IN THE DESIGN PARAMETERS SECTION ABOVE, INSTALLED PER MANUFACTURERS SPECIFICATIONS
- VII. WALL COVERINGS PER CHAPTER 7, FRC, INCLUDING BUT NOT LIMITED TO:
- A. INTERIOR COVERINGS SHALL COMPLY WITH R702
1. INTERIOR PLASTER SHALL COMPLY WITH R702.2
2. GYPSUM BOARD SHALL COMPLY WITH R702.3
- B. EXTERIOR COVERINGS SHALL COMPLY WITH R703
1. WATER RESISTANCE SHALL COMPLY WITH R703.1.1
2. WATER RESISTIVE BARRIERS SHALL COMPLY WITH R703.7.3
3. EXTERIOR USE OF PORTLAND CEMENT PLASTER SHALL COMPLY WITH R703.7 AND THE APPLICATION REQUIREMENTS OF ASTM C 926 AND ASTM C 1063 AS IT PERTAINS TO:
- a. LATH PER R703.7.1 LATH AND LATH ATTACHMENTS SHALL BE OF A CORROSION-RESISTANT MATERIALS, EXPANDED METAL OR WOVEN WIRE LATH SHALL BE ATTACHED WITH 1-1/2 -INCH-LONG (38mm), 11 GAGE NAILS HAVING A 7/16-INCH (11.1mm) HEAD, OR 7/8-INCH-LONG (22.2mm), 16 GAGE STAPLES, SPACED AT NO MORE THAN 6 INCHES (152mm), OR AS OTHERWISE APPROVED.
- b. PLASTER PER R703.7.2
- c. WECP SCREED PER R703.7.2.1
- d. WATER RESISTIVE BARRIERS PER R703.7.3 WATER RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED IN SECTION R703.2 AND, WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE 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 & ANY FLASHING (INSTALLED IN ACCORDANCE WITH SECTION R703.4) INTENDED TO DRAIN TO THE WATER-RESISTIVE BARRIER IS DIRECTED BETWEEN THE LAYERS. THIS INCLUDES THE GABLE ENDS OF THE STRUCTURE & ANYWHERE THE 3-COAT STUCCO IS APPLIED TO WIRE LATH.
- e. APPLICATION PER R703.7.4
- f. CURING PER R703.7.5
4. FLASHING SHALL COMPLY WITH R703.4 AND SHALL BE CORROSION RESISTANT AND APPLIED SHINGLE FASHION. SELF-ADHERED MEMBRANES SHALL COMPLY WITH AAMA 711
- VIII. ROOF-CEILING CONSTRUCTION PER CHAPTER 8, FRC, INCLUDING BUT NOT LIMITED TO:
- A. ALL STANDARDS PREVIOUSLY MENTIONED
- B. WOOD TRUSSES SHALL COMPLY WITH R802.10
- C. ROOF SHEATHING SHALL COMPLY WITH R803
- D. SHEATHING SHALL BE ATTACHED PER R803.2.3.1, UNLESS SPECIFIED ON THE PLANS
- E. ROOF VENTILATION SHALL COMPLY WITH R806
- F. ATTIC ACCESS SHALL COMPLY WITH R807
- IX. ROOF ASSEMBLY PER CHAPTER 9, FRC, INCLUDING BUT NOT LIMITED TO:
- A. WEATHER PROTECTION PER R903
- B. MATERIALS PER R904
- C. UNDERLAYMENT PER R905.1
- D. COVERINGS PER R905
1. ASPHALT SHINGLES SHALL COMPLY WITH R905 AND ASTM D 3462
- a. FLASHING PER R905.2.8
- b. DRIP EDGE PER R905.2.8.5
2. CLAY OR CONCRETE TILES SHALL COMPLY WITH R905.3
- a. FLASHING PER R905.3.8
3. METAL ROOFING SHALL COMPLY WITH R905.4
- a. FLASHING PER R905.4.6
- d. MINERAL SURFACED ROOF ROOFING SHALL COMPLY WITH R905.5
- X. CHIMNEYS AND FIREPLACES PER CHAPTER 10, FRC, INCLUDING BUT NOT LIMITED TO:
- A. MASONRY FIREPLACES PER R1001
- B. MASONRY CHIMNEYS PER R1003
- XI. ENERGY EFFICIENCY PER FLORIDA BUILDING CODE, ENERGY CONSERVATION 2017 6TH ED
- XII. ELECTRICAL SHALL COMPLY WITH CHAPTERS 34-43 AND FBC 2017 6TH ED ELECTRICAL AND NFPA 70

SAFE GRAVITY LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

8F8-0B/1T

B

| MARK NO. | TYPE | LENGTH | MARK NO. | TYPE | LENGTH | MARK NO. | TYPE | LENGTH | MARK NO. |
|------------------------------------|---------------------------|--------|----------|---------|---------|----------|---------|---------|----------|
| | | | | | | | | | |
| SAFE LOAD - POUNDS PER LINEAR FOOT | | | | | | | | | |
| M-1 | 3'-6" (42") PRECAST | 2231 | 8F8-0B | 8F12-0B | 8F16-0B | 8F20-0B | 8F24-0B | 8F28-0B | 8F32-0B |
| | | | 2863 | 2715 | 2563 | 2447 | 2352 | 2272 | 2205 |
| | | | 3069 | 4605 | 6113 | 7547 | 8974 | 10394 | 11899 |
| M-2 | 4'-0" (48") PRECAST | 1966 | 2561 | 2751 | 3820 | 4890 | 5961 | 7034 | 8107 |
| M-3 | 4'-6" (54") PRECAST | 1599 | 4756 | 4516 | 4276 | 4036 | 3796 | 3556 | 3316 |
| | | | 1919 | 2160 | 2320 | 2573 | 2826 | 3079 | 3332 |
| | | | 2289 | 4275 | 6113 | 7547 | 8974 | 10394 | 11899 |
| M-4 | 5'-4" (64") PRECAST | 1217 | 1349 | 1438 | 1999 | 2560 | 3123 | 3686 | 4249 |
| M-5 | 5'-10" (70") PRECAST | 1062 | 1663 | 1990 | 5365 | 7547 | 9730 | 8338 | 10127 |
| | | | 1055 | 1173 | 1621 | 2090 | 2519 | 309 | 3470 |
| | | | 1431 | 2622 | 4249 | 7169 | 10238 | 13307 | 16376 |
| M-6 | 6'-6" (78") PRECAST | 908 | 1238 | 2177 | 3480 | 5381 | 7307 | 483 | 5061 |
| | | | 1238 | 2177 | 3480 | 5381 | 8360 | 10394 | 8829 |
| | | | 1811 | 1729 | 2632 | 2025 | 2638 | 391 | 3685 |
| M-7 | 7'-6" (90") PRECAST | 743 | 1011 | 1729 | 2661 | 2898 | 5681 | 8476 | 11418 |
| | | | 1929 | 1849 | 1425 | 2564 | 3486 | 219 | 3362 |
| | | | 554 | 752 | 1245 | 1843 | 2564 | 3486 | 4503 |
| M-8 | 9'-4" (112") PRECAST | 575 | 535 | 890 | 1247 | 2093 | 2777 | 453 | 6396 |
| | | | 643 | 1002 | 1533 | 2093 | 2781 | 3483 | 4756 |
| | | | 580 | 945 | 1366 | 1846 | 2423 | 327 | 4204 |
| M-9 | 10'-6" (126") PRECAST | 475 | 580 | 945 | 1366 | 1846 | 2423 | 327 | 4204 |
| | | | 580 | 945 | 1366 | 1846 | 2423 | 327 | 4204 |
| | | | 580 | 945 | 1366 | 1846 | 2423 | 327 | 4204 |
| M-10 | 11'-4" (136") PRECAST | 362 | 580 | 945 | 1366 | 1846 | 2423 | 327 | 4204 |
| | | | 580 | 945 | 1366 | 1846 | 2423 | 327 | 4204 |
| | | | 580 | 945 | 1366 | 1846 | 2423 | 327 | 4204 |
| M-11 | 12'-0" (144") PRECAST | 337 | 540 | 873 | 1254 | 1684 | 2193 | 205 | 3532 |
| | | | 540 | 873 | 1254 | 1684 | 2193 | 205 | 3532 |
| | | | 540 | 873 | 1254 | 1684 | 2193 | 205 | 3532 |
| M-12 | 13'-4" (160") PRECAST | 296 | 471 | 755 | 1075 | 1428 | 1838 | 216 | 2883 |
| | | | 471 | 755 | 1075 | 1428 | 1838 | 216 | 2883 |
| | | | 424 | 756 | 1002 | 1265 | 1697 | 227 | 2630 |
| M-13 | 14'-0" (168") PRECAST | 279 | 442 | 796 | 1002 | 1265 | 1697 | 227 | 2630 |
| | | | NR | NR | NR | NR | NR | NR | NR |
| | | | 458 | 783 | 1270 | 1962 | 2245 | 267 | 2712 |
| M-14 | 14'-8" (176") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | | NR | NR | NR | NR | NR | NR | NR |
| | | | 412 | 710 | 1250 | 1373 | 2048 | 280 | 2513 |
| M-15 | 15'-4" (184") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | | NR | NR | NR | NR | NR | NR | NR |
| | | | NR | NR | NR | NR | NR | NR | NR |
| M-16 | 17'-4" (208") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | | NR | NR | NR | NR | NR | NR | NR |
| | | | 380 | 548 | 950 | 1265 | 1699 | 149 | 2047 |
| M-17 | 19'-4" (232") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | | NR | NR | NR | NR | NR | NR | NR |
| | | | 235 | 403 | 750 | 1037 | 1282 | 155 | 1716 |
| M-18 | 21'-4" (256") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | | NR | NR | NR | NR | NR | NR | NR |
| | | | 180 | 340 | 598 | 845 | 1114 | 159 | 1468 |
| M-19 | 22'-0" (264") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | | NR | NR | NR | NR | NR | NR | NR |
| | | | 165 | 315 | 550 | 784 | 1047 | 185 | 1299 |
| M-20 | 24'-0" (288") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | | NR | NR | NR | NR | NR | NR | NR |
| | | | 129 | 250 | 450 | 654 | 884 | 190 | 1232 |

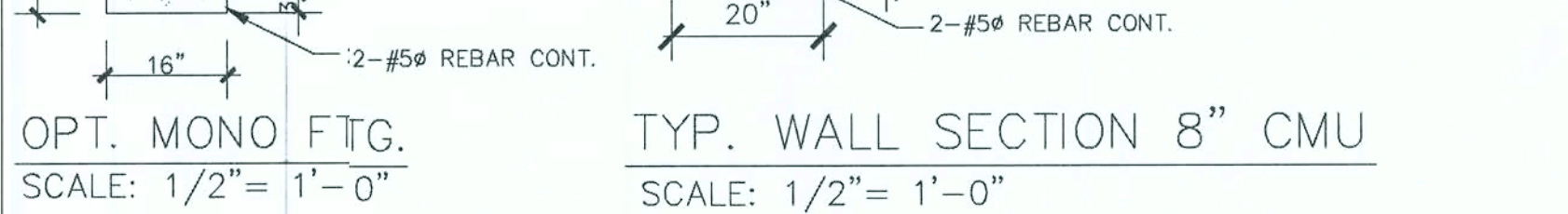
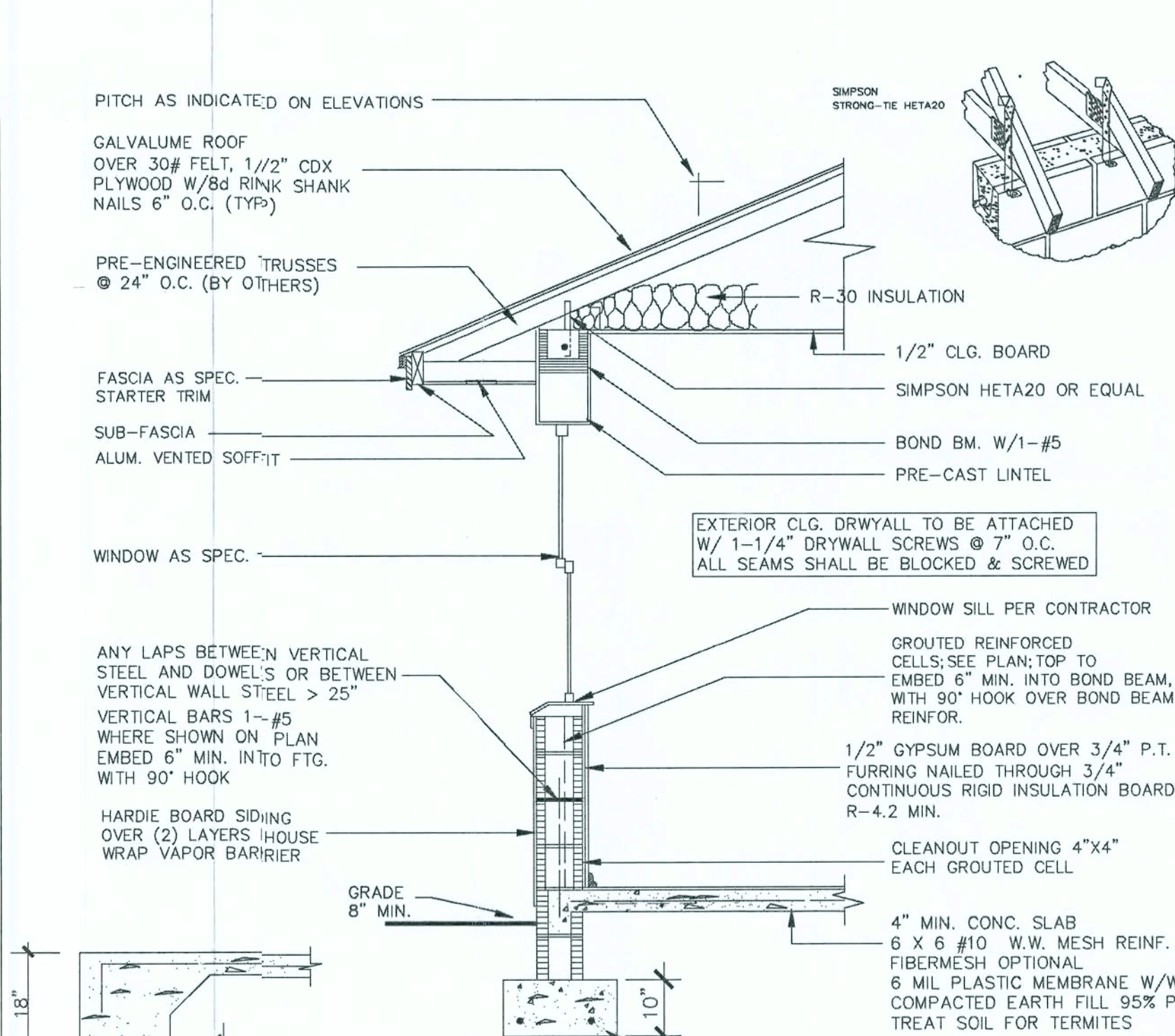
8F24-0B/1T

C

(B) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ADDED REBAR.

| SAFE UPLIFT LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS | | | | | | | | | | |
|--|---------------------------|------|------------------------------------|------------|------------|------------|------------|------------|------------|--|
| MARK NO. | LENGTH | TYPE | SAFE LOAD - POUNDS PER LINEAR FOOT | | | | | | | |
| | | | 8'-0" - 1' | 8'-2" - 1' | 8'-6" - 1' | 8'-0" - 2' | 8'-4" - 1' | 8'-8" - 1' | 8'-8" - 2' | |
| N-1 | 3'-6" (42") PRECAST | | 1569 | 2655 | 3254 | 4394 | 5263 | 6132 | 7001 | |
| N-2 | 4'-0" (48") PRECAST | | 1363 | 2305 | 3060 | 3815 | 4570 | 5325 | 6079 | |
| N-3 | 4'-6" (54") PRECAST | | 1207 | 2040 | 2707 | 3372 | 4037 | 4702 | 5367 | |
| N-4 | 5'-4" (64") PRECAST | | 1016 | 1715 | 2276 | 2838 | 3399 | 3961 | 4522 | |
| N-5 | 5'-10" (70") PRECAST | | 909 | 1565 | 2126 | 2688 | 3250 | 3812 | 4374 | |
| N-6 | 6'-6" (78") PRECAST | | 835 | 1407 | 1868 | 2329 | 2790 | 3251 | 3712 | |
| N-7 | 7'-6" (90") PRECAST | | 727 | 1265 | 1624 | 2083 | 2456 | 2829 | 3202 | |
| N-8 | 9'-4" (112") PRECAST | | 591 | 1085 | 1404 | 1723 | 2042 | 2361 | 2680 | |
| N-9 | 10'-6" (126") PRECAST | | 530 | 975 | 1265 | 1588 | 1901 | 2214 | 2527 | |
| N-10 | 11'-4" (136") PRECAST | | 530 | 995 | 1189 | 1472 | 1763 | 2055 | 2346 | |
| N-11 | 12'-0" (144") PRECAST | | 474 | 904 | 891 | 1037 | 1274 | 1512 | 1750 | |
| N-12 | 13'-4" (160") PRECAST | | 494 | 607 | 1492 | 1342 | 1613 | 1885 | 2157 | |
| N-13 | 14'-0" (168") PRECAST | | 470 | 456 | 724 | 938 | 1153 | 1367 | 1581 | |
| N-14 | 14'-8" (176") PRESTRESSED | | 428 | 435 | 681 | 904 | 1126 | 1348 | 1570 | |
| N-15 | 15'-4" (184") PRESTRESSED | | 384 | 359 | 560 | 724 | 889 | 1054 | 1220 | |
| N-16 | 17'-4" (208") PRESTRESSED | | 410 | 425 | 717 | 1063 | 1358 | 1652 | 1947 | |
| N-17 | 19'-4" (232") PRESTRESSED | | 239 | 334 | 580 | 672 | 825 | 978 | 1131 | |
| N-18 | 21'-4" (256") PRESTRESSED | | 244 | 393 | 612 | 704 | 857 | 1009 | 1162 | |
| N-19 | 22'-0" (264") PRESTRESSED | | 242 | 313 | 496 | 627 | 769 | 911 | 1054 | |
| N-20 | 24'-0" (288") PRESTRESSED | | 308 | 368 | 615 | 908 | 1240 | 1572 | 1904 | |
| N-1 | 3'-6" (42") PRECAST | | 1569 | 2655 | 3254 | 4394 | 5263 | 6132 | 7001 | |
| N-2 | 4'-0" (48") PRECAST | | 1363 | 2305 | 3060 | 3815 | 4570 | 5325 | 6079 | |
| N-3 | 4'-6" (54") PRECAST | | 1207 | 2040 | 2707 | 3372 | 4037 | 4702 | 5367 | |
| N-4 | 5'-4" (64") PRECAST | | 1016 | 1715 | 2276 | 2838 | 3399 | 3961 | 4522 | |
| N-5 | 5'-10" (70") PRECAST | | 909 | 1565 | 2126 | 2688 | 3250 | 3812 | 4374 | |
| N-6 | 6'-6" (78") PRECAST | | 835 | 1407 | 1868 | 2329 | 2790 | 3251 | 3712 | |
| N-7 | 7'-6" (90") PRECAST | | 727 | 1265 | 1624 | 2083 | 2456 | 2829 | 3202 | |
| N-8 | 9'-4" (112") PRECAST | | 591 | 1085 | 1404 | 1723 | 2042 | 2361 | 2680 | |
| N-9 | 10'-6" (126") PRECAST | | 530 | 975 | 1265 | 1588 | 1901 | 2214 | 2527 | |
| N-10 | 11'-4" (136") PRECAST | | 530 | 995 | 1189 | 1472 | 1763 | 2055 | 2346 | |
| N-11 | 12'-0" (144") PRECAST | | 474 | 904 | 891 | 1037 | 1274 | 1512 | 1750 | |
| N-12 | 13'-4" (160") PRECAST | | 494 | 607 | 1492 | 1342 | 1613 | 1885 | 2157 | |
| N-13 | 14'-0" (168") PRECAST | | 470 | 456 | 724 | 938 | 1153 | 1367 | 1581 | |
| N-14 | 14'-8" (176") PRESTRESSED | | 428 | 435 | 681 | 904 | 1126 | 1348 | 1570 | |
| N-15 | 15'-4" (184") PRESTRESSED | | 384 | 359 | 560 | 724 | 889 | 1054 | 1220 | |
| N-16 | 17'-4" (208") PRESTRESSED | | 410 | 425 | 717 | 1063 | 1358 | 1652 | 1947 | |
| N-17 | 19'-4" (232") PRESTRESSED | | 239 | 334 | 580 | 672 | 825 | 978 | 1131 | |
| N-18 | 21'-4" (256") PRESTRESSED | | 244 | 393 | 612 | 704 | 857 | 1009 | 1162 | |
| N-19 | 22'-0" (264") PRESTRESSED | | 242 | 313 | 496 | 627 | 769 | 911 | 1054 | |
| N-20 | 24'-0" (288") PRESTRESSED | | 308 | 368 | 615 | 908 | 1240 | 1572 | 1904 | |

(H) THE NUMBERS IN PARENTHESES ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ANCHOR REBAR.



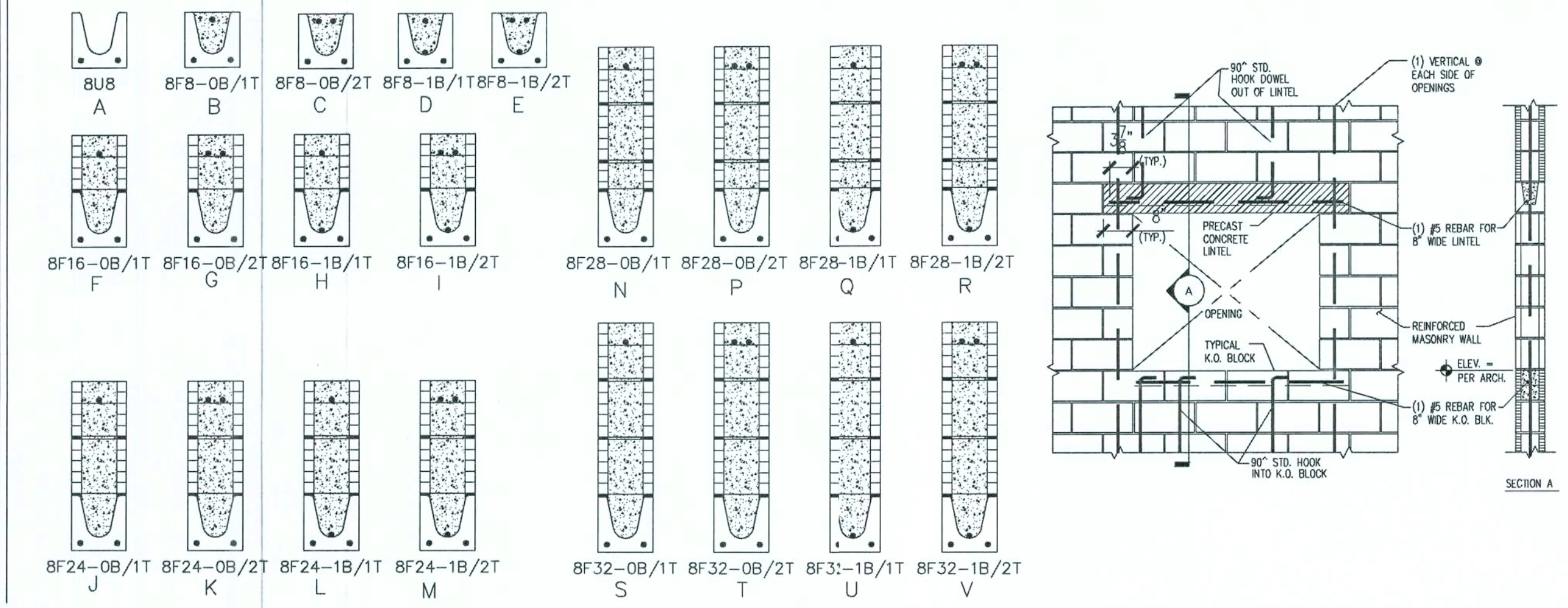
| C&C LOADS ROOF R301.2.2 | | | | | | | | | |
|--|--------|-------|--------|-------|--------|-------|--|--|--|
| ULTIMATE DESIGN WIND 140 MPH MEAN ROOF HEIGHT 30FT EXPOSURE B | | | | | | | | | |
| EFFECTIVE WIND AREA FT SQUARE | ZONE 1 | | ZONE 2 | | ZONE 3 | | | | |
| | POS | NEG | POS | NEG | POS | NEG | | | |
| 10 | 20.3 | -32.3 | 20.3 | -56.2 | 20.3 | -83.1 | | | |
| 20 | 18.5 | -31.4 | 18.5 | -51.7 | 18.5 | -77.7 | | | |
| 50 | 16.1 | -30.2 | 16.1 | -45.7 | 16.1 | -70.5 | | | |
| 100 | 14.3 | -29.3 | 14.3 | -41.2 | 14.3 | -65.1 | | | |

| ROOFING SYSTEM | | | | |
|--|--|--|--|--|
| 1. ROOF DECKING NAIL SCHEDULE: FOR 1/2" CDX PLYWOOD OR 7/16" OSB ROCK DECK, USE 8d RING SHANK NAILS SPACED 6" O.C. AT EDGES AND 6" O.C. ON INTERMEDIATE FRAMING | | | | |
| 2. GALVALUME: 26 OR 29 GAUGE GALVALUME ROOF PANELS TO MEET 140 MPH WIND CRITERIA. INSTALL PER MANUFACTURERS SPECIFICATIONS | | | | |
| 3. FELT: FELT TO COMPLY WITH ASTM D 226, TYPE 1, USE 30# FELT OR GREATER W/2" TOP LAP AND 4" ENLAP. REFER TO MANUFACTURER SPECIFICATIONS IF APPLICABLE. | | | | |
| 4. FLASHING: FLASHING TO COMPLY WITH ASTM D24. THE RECOMMENDED FLASHING MATERIALS IS 26-GAUGE GALV. METAL OR AN EQUIVALENT CORROSION RESISTANT, NONSTAINING MATERIALS. CONSULT THE APPROPRIATE ROOFING MANUFACTURERS FOR RECOMMENDATIONS ON A PARTICULAR APPLICATION. | | | | |

| GENERAL ROOF LOADING | | | | |
|--|------------------|----------------|---------------|----------------|
| | SHINGLE ROOF PSF | METAL ROOF PSF | TILE ROOF PSF | HEAVY ROOF PSF |
| TOP CHORD LL | 20 | 20 | 20 | 20 |
| TOP CHORD DL | 7 | 7 | 15 | 25 |
| BOTTOM CHORD LL | 0 | 0 | 0 | 0 |
| BOTTOM CHORD DL | 10 | 10 | 10 | 10 |
| TOTAL (PSF) | 37 | 37 | 45 | 55 |
| BOTTOM CHORD LL (OPT) ATTICS W/LIMITED STORAGE ATTICS W/HEAVY STORAGE ATTICS W/NO STORAGE (NON-CONCURRENT) | 20 | 55 | 10 | |

NOTE: LL REDUCTIONS AREA ALLOWED PER CODE BUT ONLY WITH WRITTEN APPROVAL FROM THE ENGINEER ON RECORD INDICATED ON THE PLAN.

| PLYWOOD NAILING SCHEDULE | |
|--|--|
| USE 1/2" CDX, WITH THE FOLLOWING NAIL SCHEDULE: TOP AND BOTTOM 3" WITH 8d NAILS 6" ON SIDES AND 12" INTERMEDIATE | |



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Since 1975

NOTES:

Lane Residence
1616 NW Moore Farms Rd.
Lake City, FL 32055

DRAWING NO. 219034
DATE: July, 2019
Structural Details 1

Engineer: Kent Bios
FL License # 50421
COA #: 30468
No 50421
STATE OF FLORIDA
PROFESSIONAL ENGINEER
07/24/19
CONTRACTOR TO VERIFY ALL AREA CALCULATIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION.

SHEET 2 of 9

STEPS & STAIRWAYS

USE ALL GALVANIZED NAILS OR SCREWS AND P.T. LUMBER (AT EXTERIOR RAILINGS).

TREADS & RISERS OF STAIRS SHALL BE SO PROPORTIONED THAT THE SUM OF TWO RISERS AND A TREAD, EXCLUSIVE OF PROJECTION OF NOSING, IS NOT LESS THAN 24 INCHES NOR MORE THAN 25 INCHES.

THE HEIGHT OF RISERS SHALL NOT EXCEED 7 3/4 INCHES, AND TREADS (EXCLUSIVE OF NOSING) SHALL BE NO LESS THAN 9 INCHES WIDE.

EVERY TREAD LESS THAN 10 INCHES WIDE SHALL HAVE A NOSING, OR EFFECTIVE PROJECTION, OF APPROXIMATELY 1 INCH OVER THE LEVEL IMMEDIATELY BELOW THAT TREAD.

HANDRAILS:

STAIRWAYS HAVING FOUR OR MORE RISERS ABOVE A FLOOR OR FINISHED GROUND LEVEL, SHALL BE EQUIPPED WITH HANDRAILS LOCATED NOT LESS THAN 34 INCHES NOR MORE THAN 38 INCHES ABOVE THE EDGE OF A TREAD.

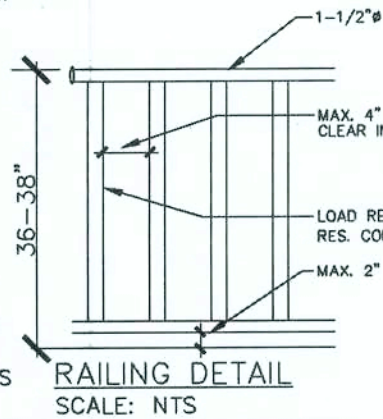
GUARDRAILS:

ALL UNENCLOSED FLOOR & ROOF OPENINGS, OPEN AND GLAZED SIDES OF LANDINGS, STAIRS, RAMPS, BALCONIES AND PORCHES WHICH ARE MORE THAN 30 INCHES ABOVE FINISHED GROUND LEVEL OR A FLOOR BELOW SHALL BE PROTECTED BY A GUARDRAIL.

GUARDRAILS FOR DWELLINGS, WITHIN INDIVIDUAL DWELLING UNITS OR GUEST ROOMS, AND IN RESIDENTIAL CARE/ASSISTED LIVING OCCUPANCIES SHALL BE A MINIMUM OF 36 INCHES HIGH.

NOTES:

1009.11.3 HANDRAIL GRASPABILITY
HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1.25 INCHES AND NOT GREATER THAN 2 INCHES OR SHALL PROVIDE EQUIVALENT GRASPABILITY. IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4 INCHES AND NOT GREATER THAN 6.25 INCHES WITH A MAXIMUM CROSS SECTION DIMENSION OF 2.25 INCHES. EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01 INCH.

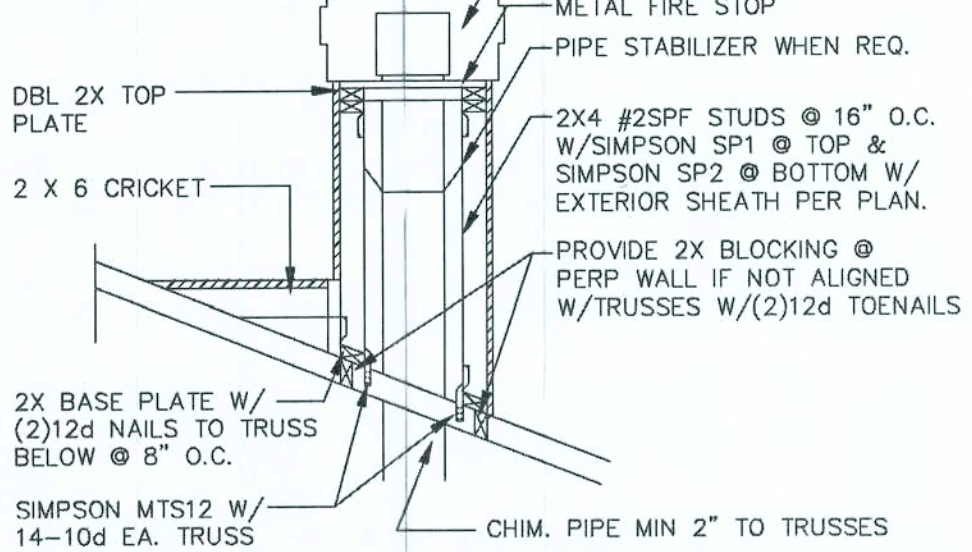


TYPICAL TRUSS ANCHORS

USE SIMPSON STRONG-TIE HETA20 TRUSS STRAP 1810# UPLIFT W/(10) 10d NAILS OR EQUIV. APPROVED STRAP PER MANUFACTURERS SPECS

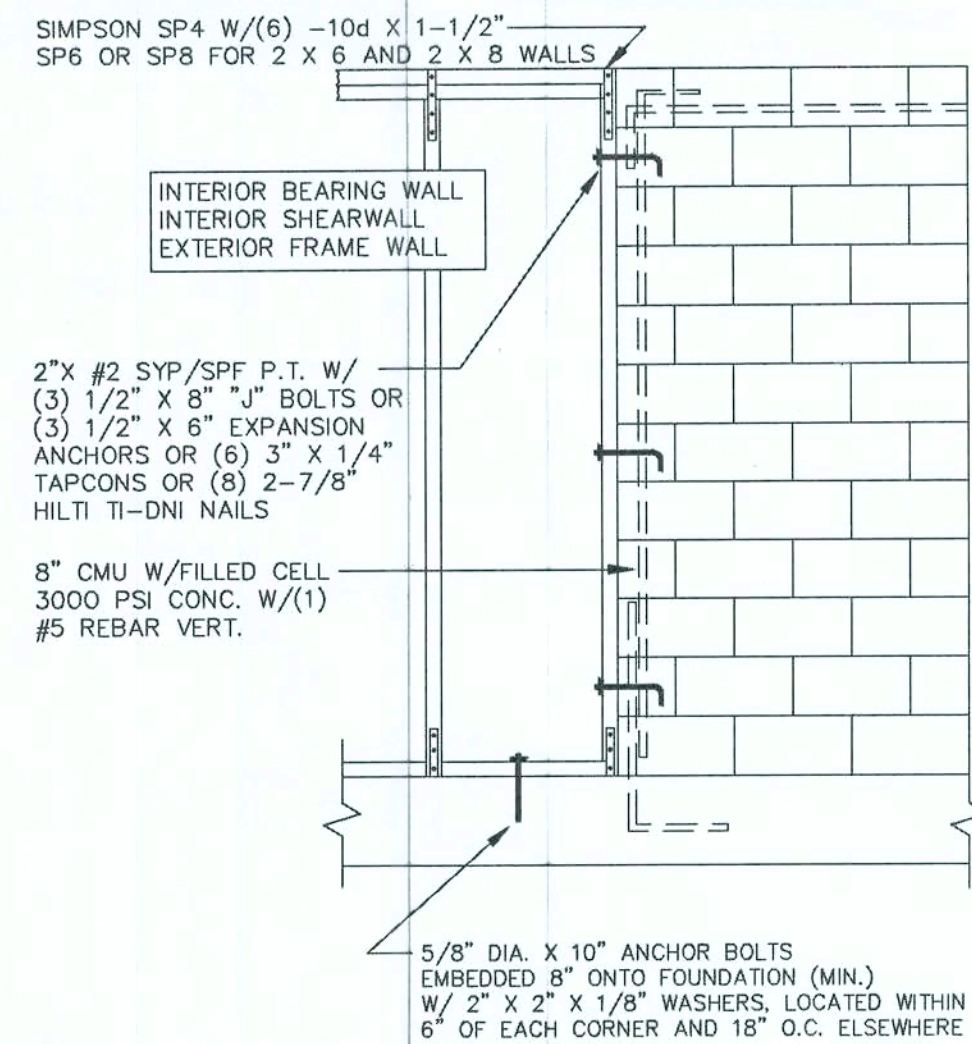
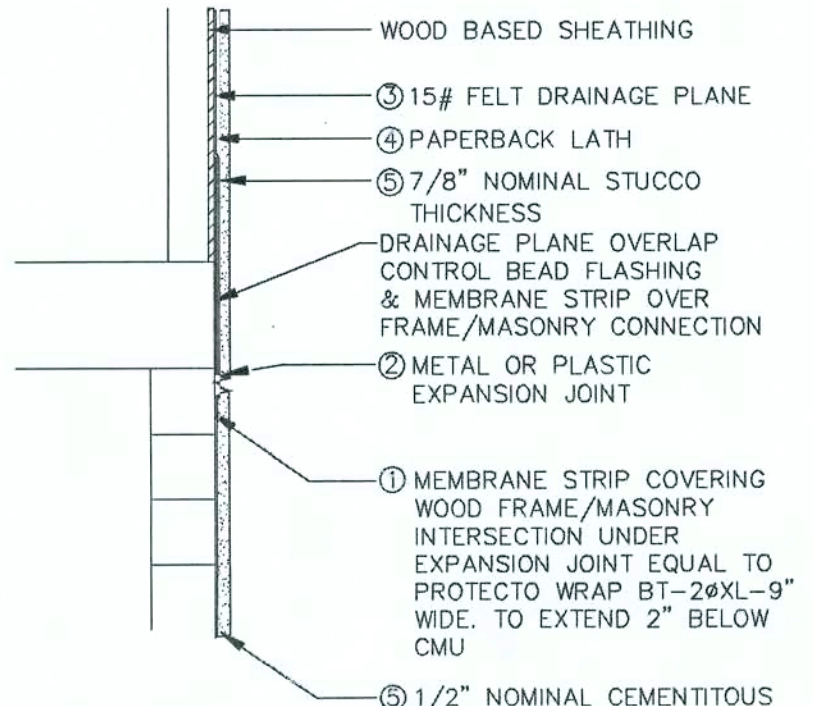
USE SIMPSON STRONG-TIE H2.5A TRUSS STRAP 535# UPLIFT W/(10) 8d NAILS OR EQUIV. APPROVED STRAP PER MANUFACTURERS SPECS

THE HEIGHT OF THE CHIMNEY SHOULD EXTEND 2' ABV. THE POINT WHERE THE CHIMNEY IS 10' FROM THE NEAREST BUILDING SURFACE.



STUCCO FLASHING @ INTERFACE

STUCCO FLASHING @ INTERFACE



FRAME (EXT/BRG/SHEAR) WALL TO MASONRY CONNECTION DETAIL

SCALE: N.T.S.

COLUMN SCHEDULE

| COLUMN SIZE | (BASE) CONN. & FASTENER | UPLIFT |
|--|--|--------|
| 4 X 4 P.T. #2 SYP POST | SIMPSON ABU44 W/ 5/8" ATR & (12) - 16d NAILS | 2200# |
| 6 X 6 P.T. #2 SYP POST | SIMPSON ABU66 W/ 5/8" ATR & (12) - 16d NAILS | 2300# |
| 8 X 8 P.T. #2 SYP POST | SIMPSON ABU88 W/ 5/8" ATR & (18) - 16d NAILS | 2320# |
| 3.5 X 3.5 P.L. 1.8E TB-2400 PSI (WOLMANIZED IF EXT.) | SIMPSON HDU5-SDS2.5 W/ (14) 1/4" X 2-1/2" SDS WS & 5/8" EPOXY ANCHOR OR ATR. | 5645# |

GENERAL COLUMN NOTES

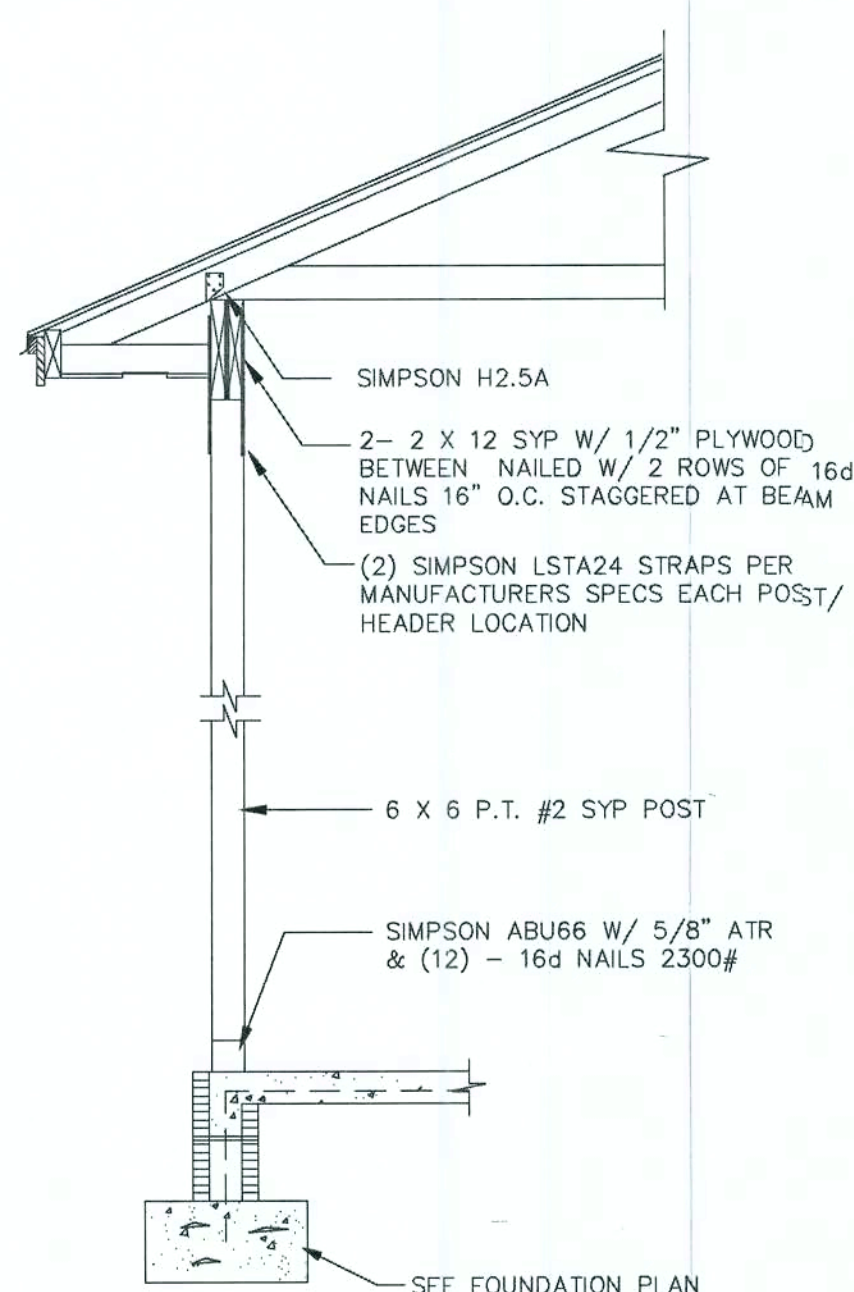
- SEE FLOOR PLAN FOR WALL WIDTH. STUD PACKS TO MATCH WALL WIDTH.
- ALL STRUCTURAL LUMBER TO BE SYP #1 OR SPF #2 ON PLAN.
- MINIMUM BOLT EMBEDMENT:
5" EMBED FOR 1/2" AIR
6" EMBED FOR 5/8" AIR
8" EMBED FOR 7/8" AIR

BEAM SCHEDULE

| BEAM SIZE | CONNECTORS |
|--|---|
| 2- 2 X 8 SYP W/ 1/2" PLYWOOD BETWEEN NAILED W/ 2 ROWS OF 16d NAILS 16" O.C. STAGGERED AT BEAM EDGES | PROVIDE (2) SIMPSON LSTA18 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COLUMN PER MANUFACTURERS SPECIFICATIONS OR EQUIV. CONNECTORS. |
| 2- 2 X 10 SYP W/ 1/2" PLYWOOD BETWEEN NAILED W/ 2 ROWS OF 16d NAILS 16" O.C. STAGGERED AT BEAM EDGES | PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COLUMN PER MANUFACTURERS SPECIFICATIONS OR EQUIV. CONNECTORS. |
| 2- 2 X 12 SYP W/ 1/2" PLYWOOD BETWEEN NAILED W/ 2 ROWS OF 16d NAILS 16" O.C. STAGGERED AT BEAM EDGES | PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COLUMN PER MANUFACTURERS SPECIFICATIONS OR EQUIV. CONNECTORS. |

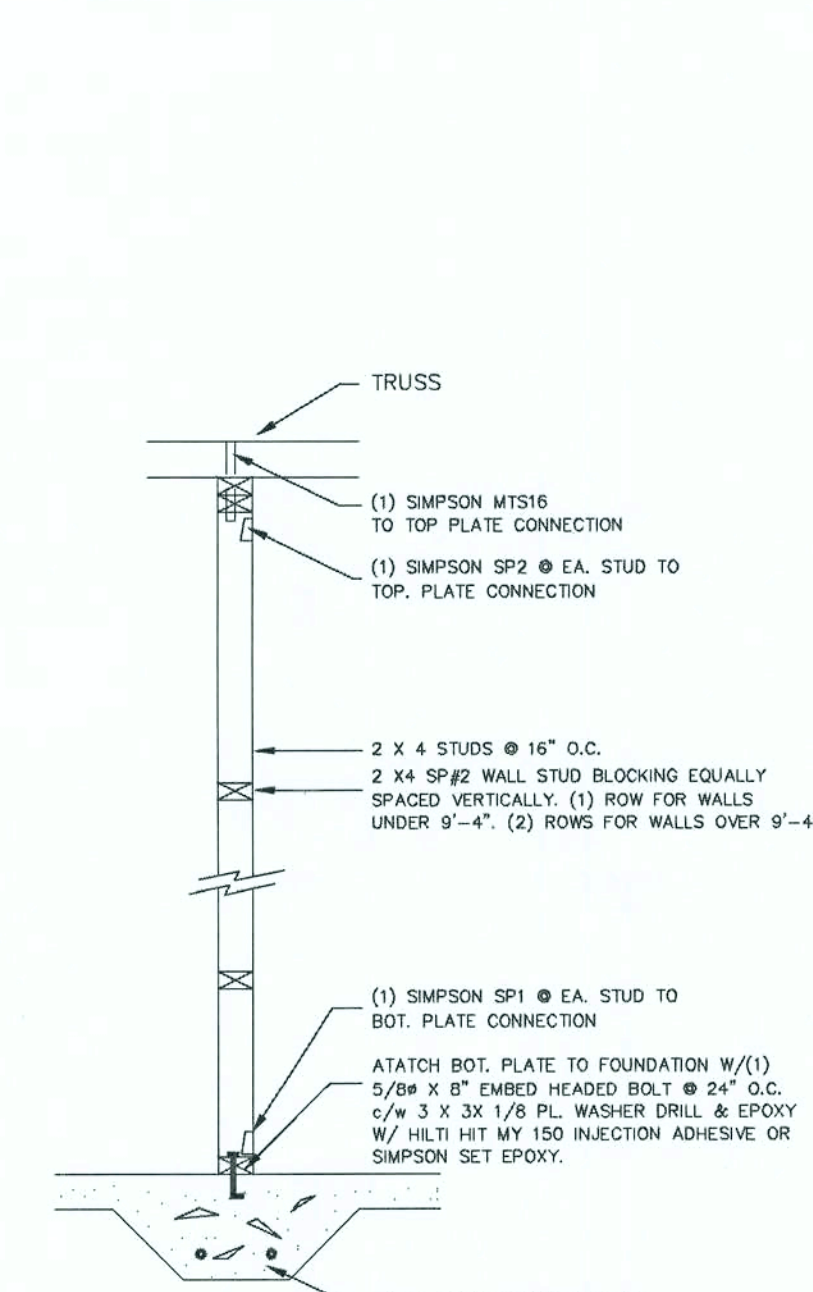
GENERAL BEAMNOTES

- VERIFY WITH PLAN CORRECT LENGTH OF BEAMS REQUIRED MIN. 4" BEARING EACH END.
- SEE PLAN FOR TOP OF BOTTOM OF BEAM INDICATIONS
- BEAMS ARE NOT TO BE DRILLED OR NOTCHED IN ANY WAY WITHOUT APPROVAL FROM THE ENGINEER ON RECORD.



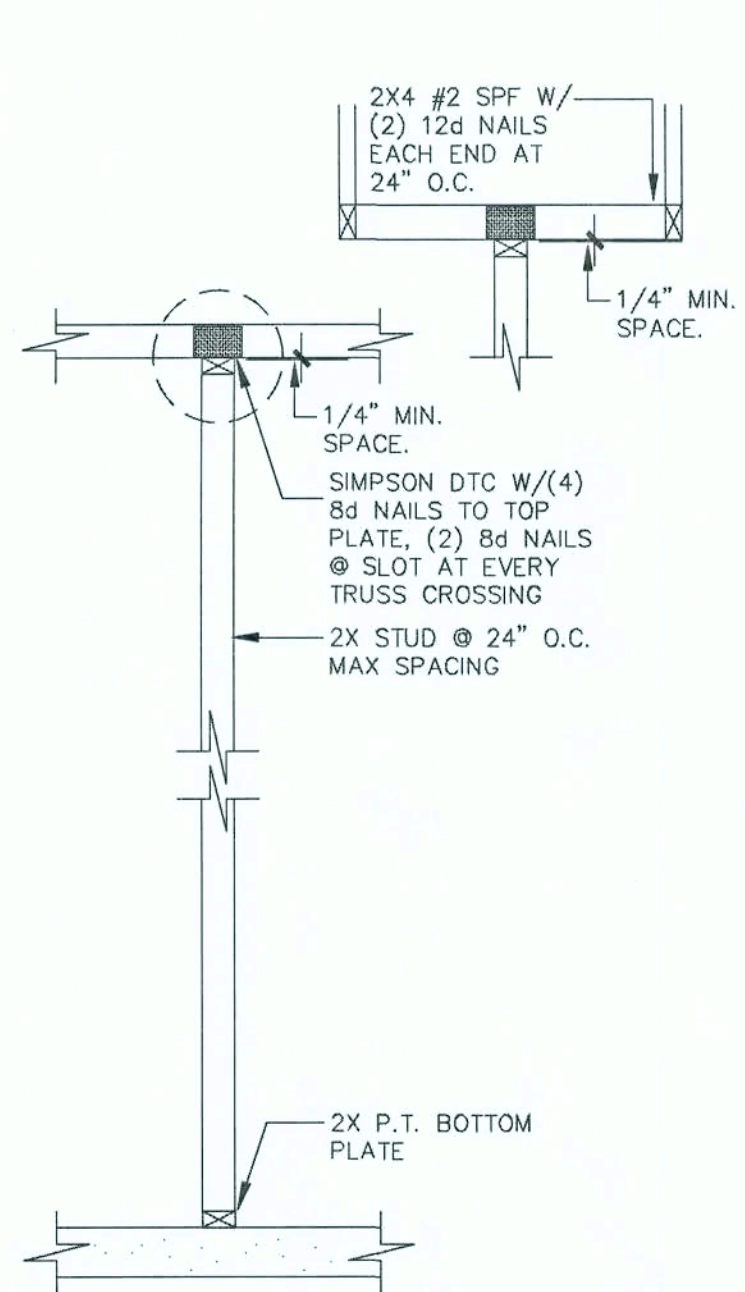
PORCH POST DETAIL

SCALE: N. T. S.



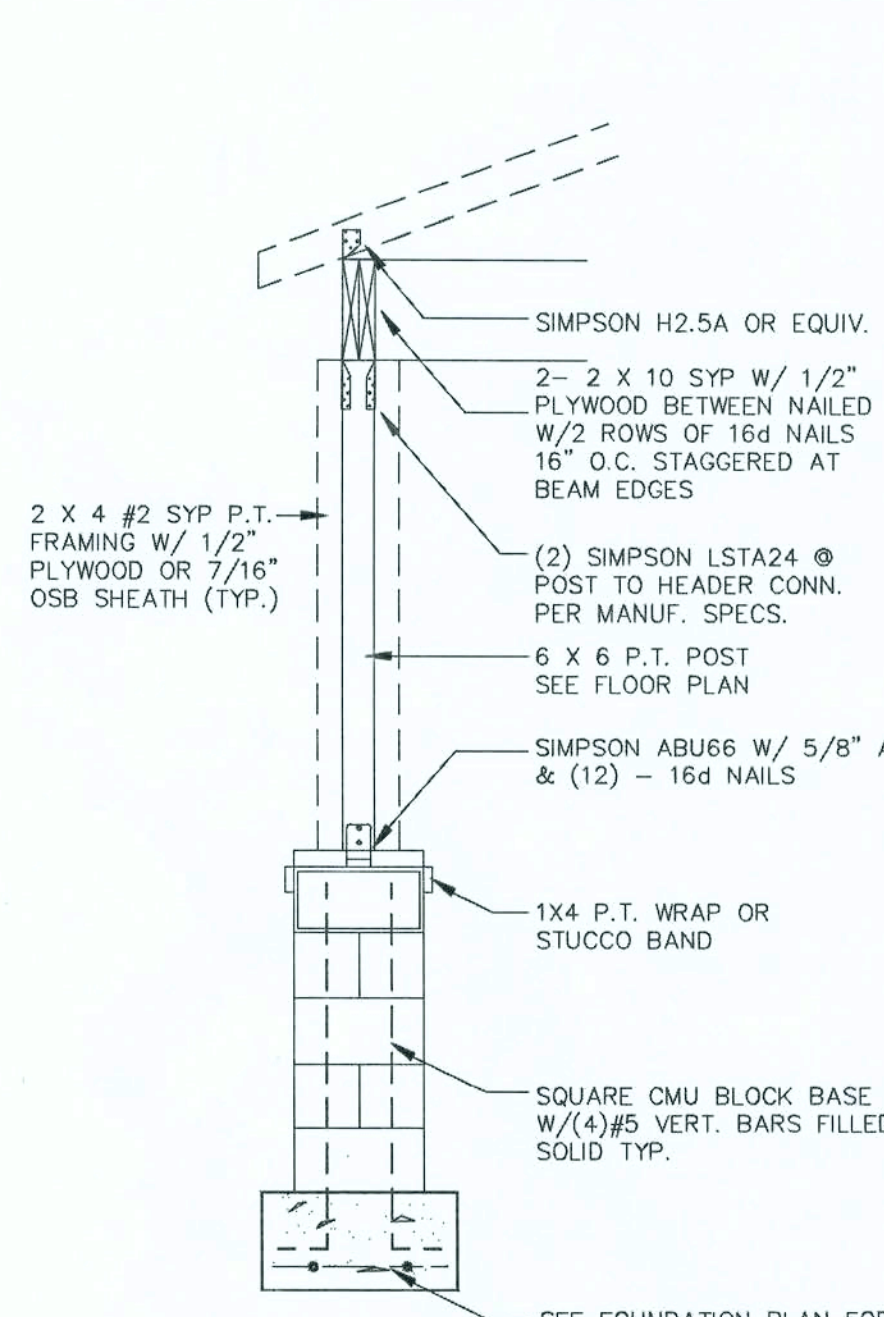
TYPICAL INTERIOR LOAD-BEARING WALL

SCALE: N.T.S.



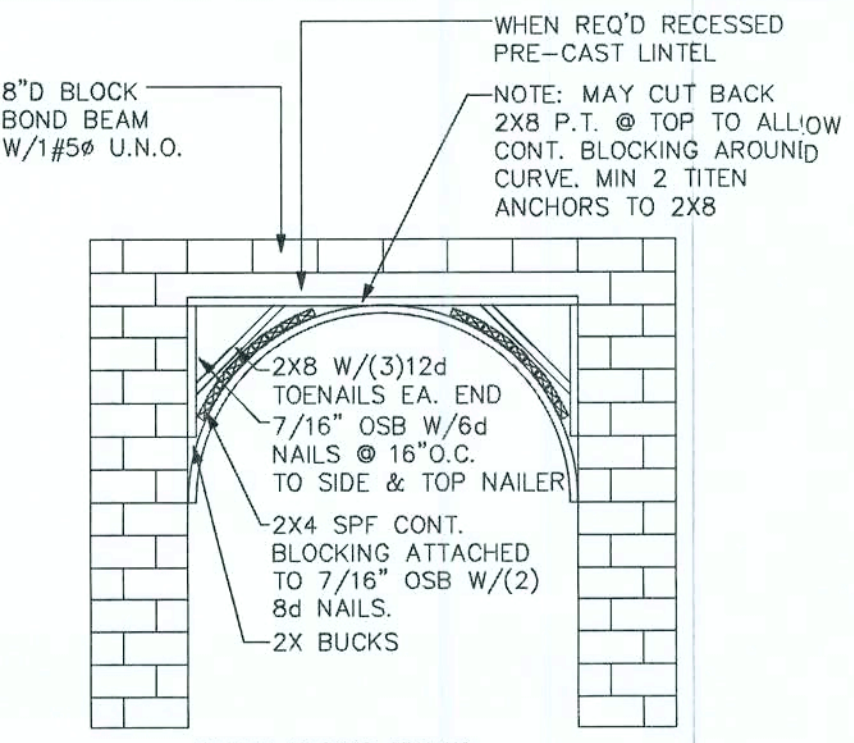
TYPICAL INTERIOR NON-BEARING WALL

SCALE: N.T.S.



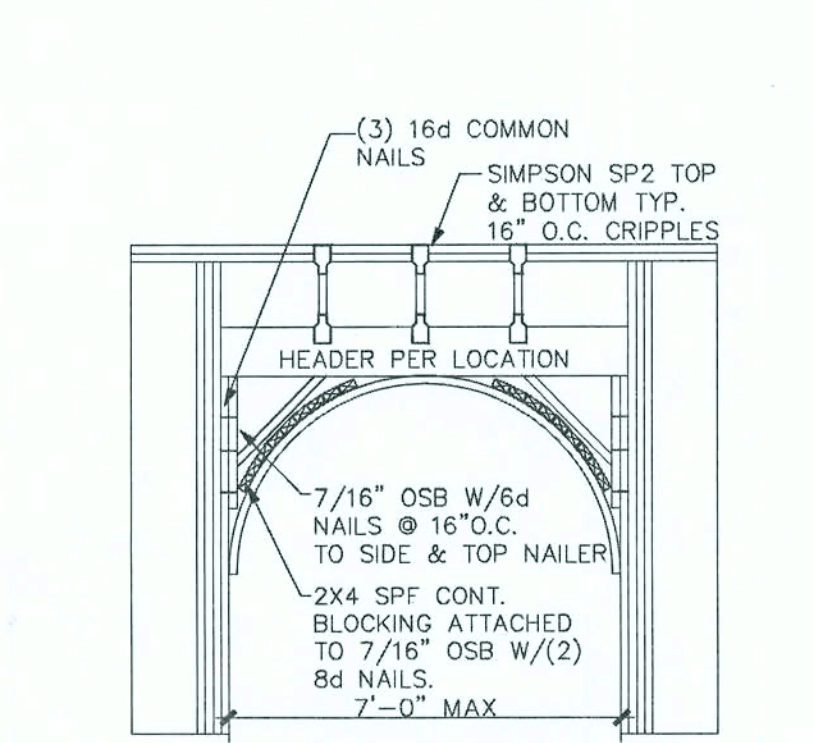
MASONRY BASE COLUMN DETAIL

SCALE: N.T.S.



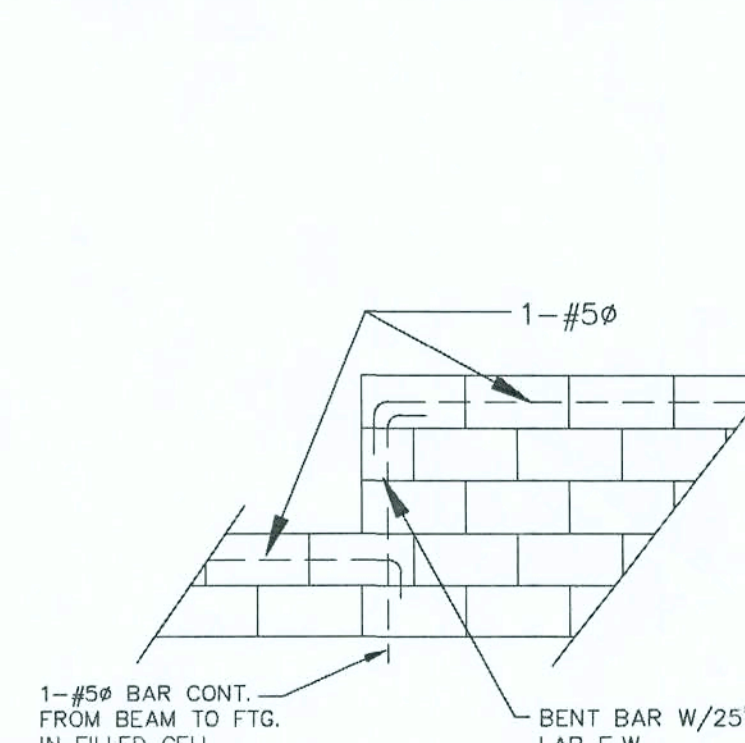
ARCH WINDOW FRAMING DETAIL

SCALE: N. T. S.



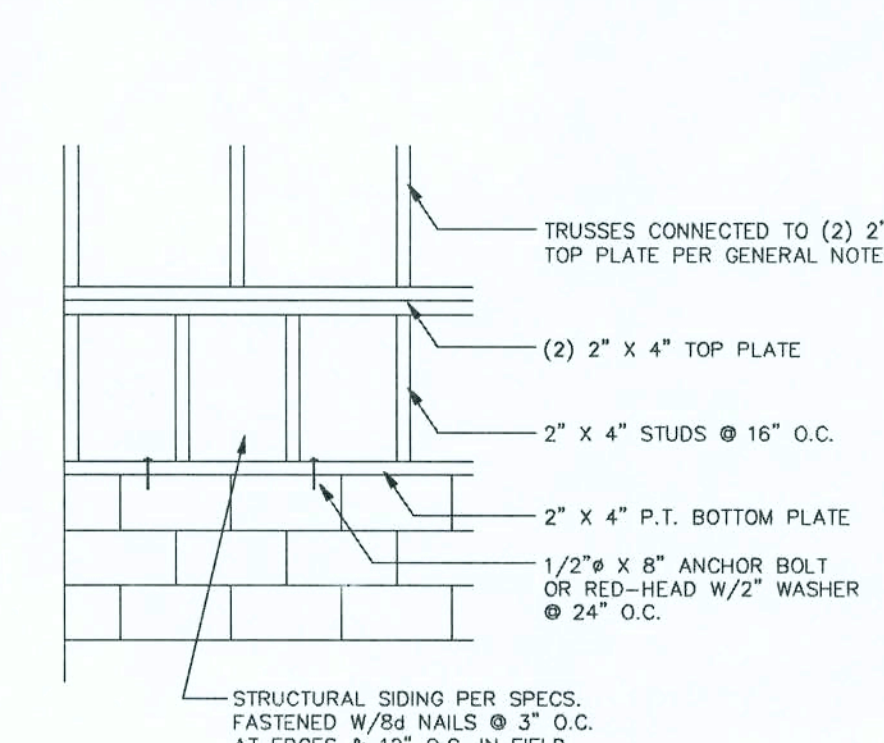
ARCH WINDOW FRAMING DETAIL

SCALE: N. T. S.



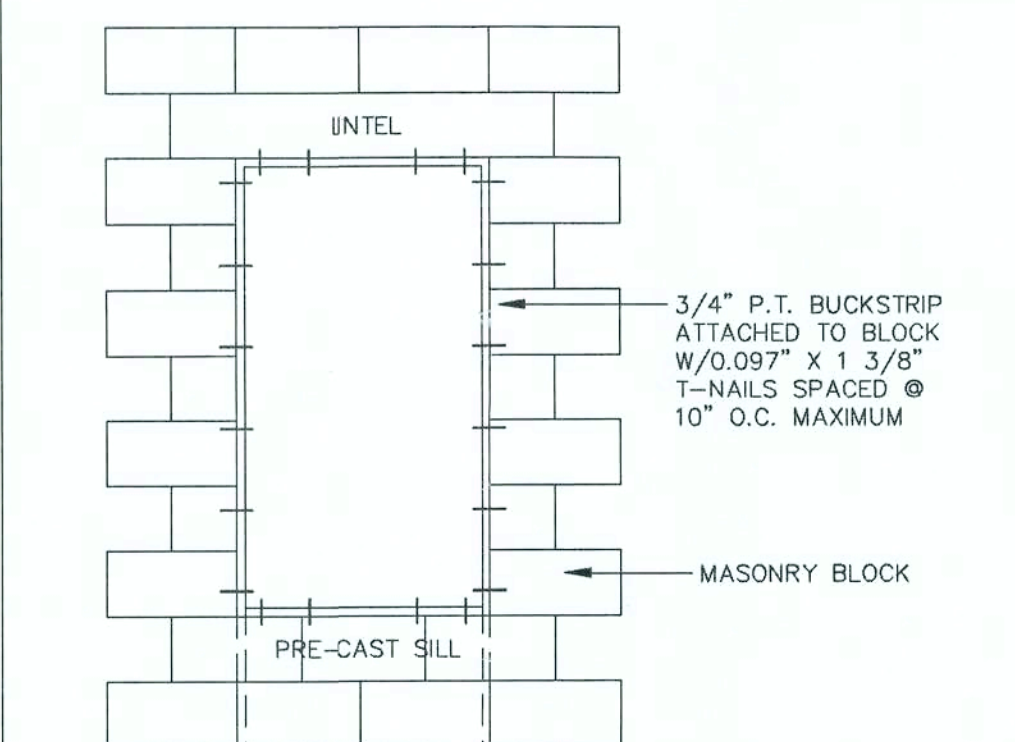
STEP DOWN TIE BEAM

SCALE: NTS



KNEEWALL DETAIL

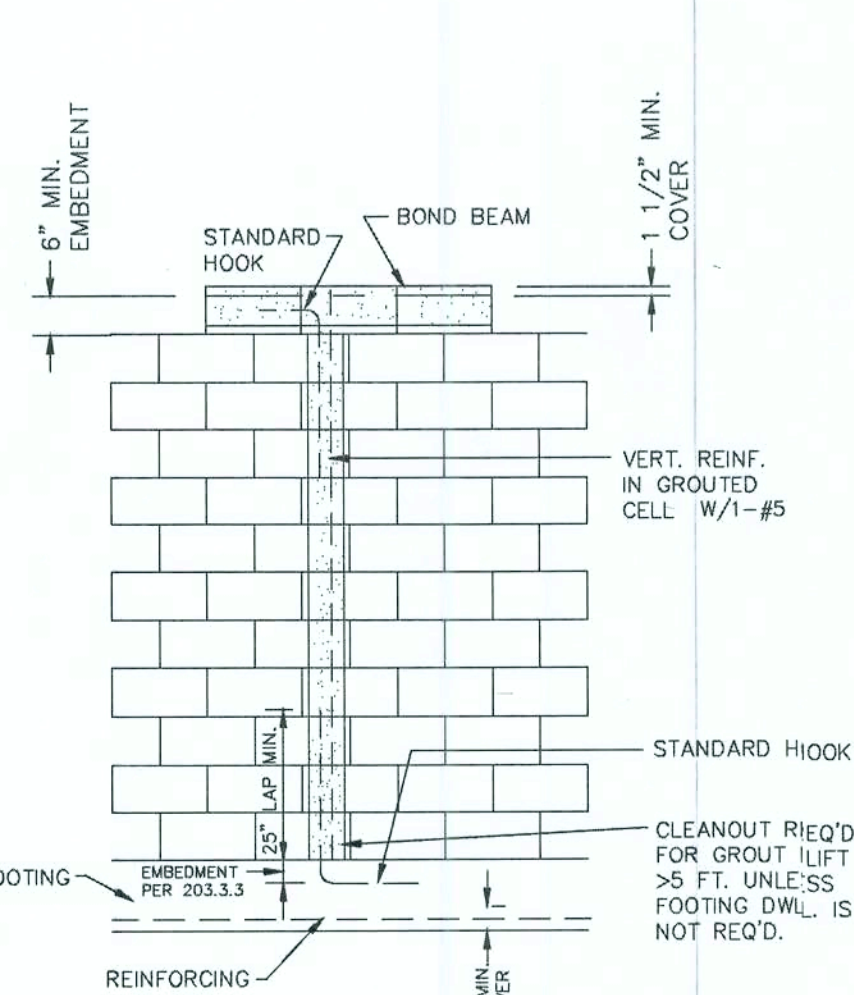
SCALE: N. T. S.



WINDOWS & DOORS MUST BE INSTALLED SUCH THAT THE MAXIMUM GAP IN BETWEEN THE FRAME AND BUCKSTRIP IS 1/4"; IF THICKER BUCKSTRIP MATERIAL IS NEEDED RIP IT FROM 1 1/2" MATERIAL & ATTACH TO BLOCK WITH 3/16" TAPCONS AT 8" O.C.
ATTACH WINDOW & DOOR FRAMES TO BLOCK WALL W/TAPCON SCREWS SPACED AT WINDOW/DOOR MANUFACTURERS SPECIFICATIONS (TAPCONS MUST PENETRATE THROUGH BUCKSTRIPS & INTO BLOCK WALL 1 1/4" MINIMUM).

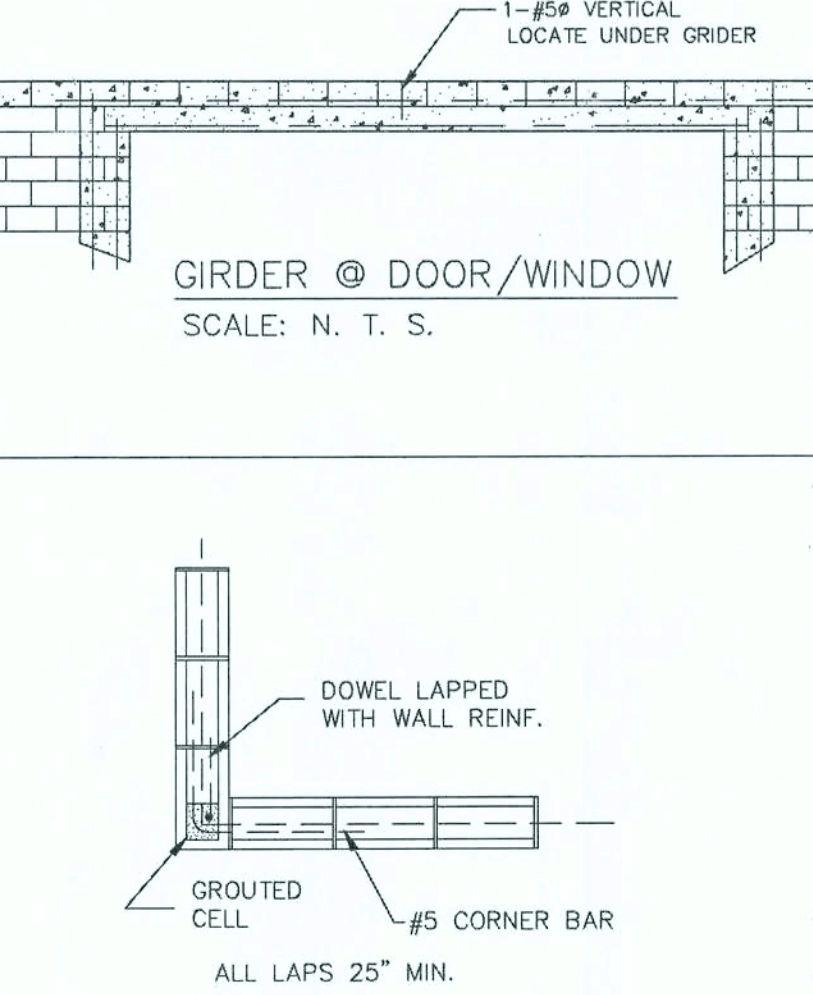
WINDOW/DOOR BUCKSTRIP DETAIL

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



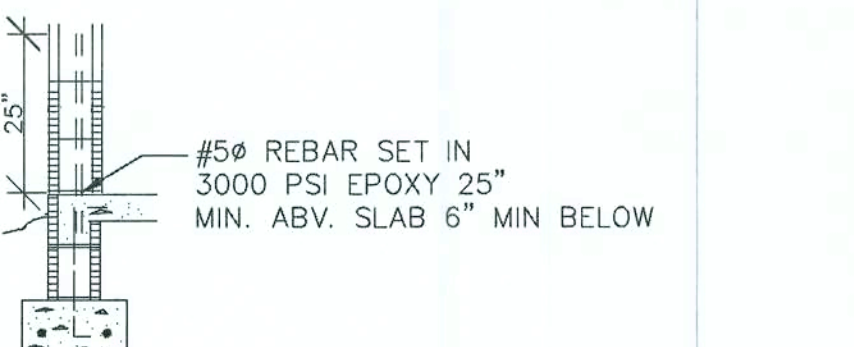
ONE STORY MASONRY WALL

SCALE: NTS



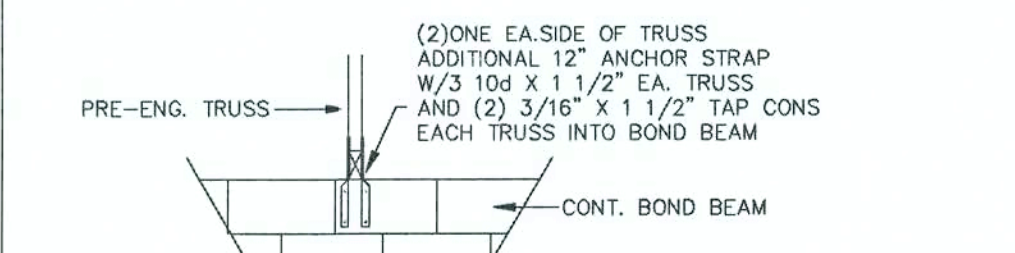
CORNER CONTINUITY OF BOND BEAM AND WALL REINFORCEMENT

SCALE: N.T.S.



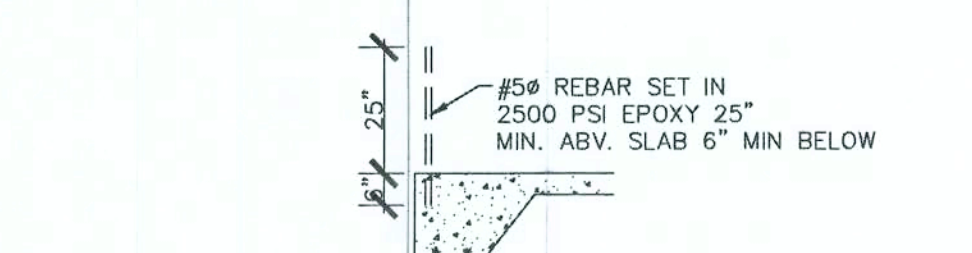
TYP. RETROFIT FOR ALL OMITTED FOUNDATION DOWELS

SCALE: N. T. S.



TRUSS ANCHOR DETAIL-RETROFIT

SCALE: N. T. S.



TYP. RETROFIT FOR ALL OMITTED FOUNDATION DOWELS

SCALE: N. T. S.

1 TYP. STEMWALL FOOTING
 SCALE: $1/2" = 1'-0"$
 Dimensions: 10" height, 20" width.
 Reinforcement: 2-#5 ϕ REBAR CONT.

2 TYP. MONOLITHIC FOOTING
 SCALE: $1/2" = 1'-0"$
 Dimensions: 18" height, 16" width.
 Reinforcement: 2-#5 ϕ REBAR CONT.

3 CONCRETE PAD
 SCALE: $1/2" = 1'-0"$
 Dimensions: 12" height, 24" width.
 Reinforcement: 24" X 24" X 12" DEEP CONC. PAD, W/3-#5 ϕ REBAR @ 7" O.C. E.W.

4 INTERIOR BEARING FOOTER
 SCALE: $1/2" = 1'-0"$
 Dimensions: 12" height, 16" width.
 Reinforcement: 12" BELL FOOTER W/2-#5 ϕ REBAR CONT. (ALT. 24" X 16" W/3-#5 ϕ @ 2-STORY).

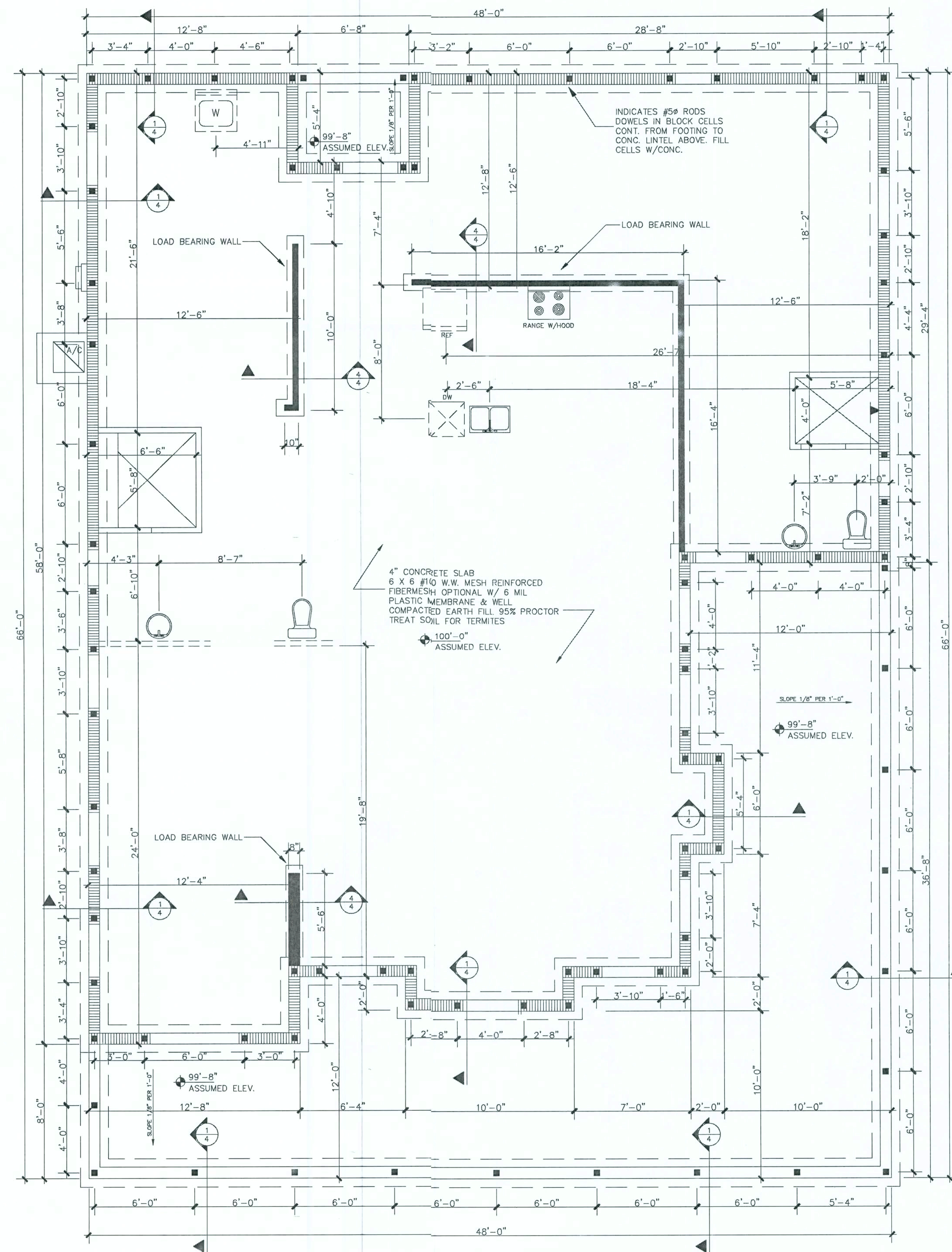
5 TYP. TOE FOOTER
 SCALE: $1/2" = 1'-0"$
 Dimensions: 12" height, 12" width.
 Reinforcement: 2-#5 ϕ REBAR CONT.

6 SLAB PENETRATION @ AC LINE
 SCALE: $1/2" = 1'-0"$
 Details: #5 ϕ REBAR IN FILLED 8" UNLET BLOCK, 4" PVC CHASE FOR AC LINES, AH, 2-#5 ϕ REBAR CONT.

7 2-STORY STEMWALL FOOTING
 SCALE: $1/2" = 1'-0"$
 Dimensions: 12" height, 24" width.
 Reinforcement: 3-#5 ϕ REBAR CONT.

1. INSTALL CEMENTS & DRY FILL IN MAX. 12" COMPACTED LIFTS
2. STEEL WELDS TO BE 8" CUM - GROUT SOLD - SEEN PLAN FOR DOWEL LOCATIONS
3. SAW CUT SLAB 1/4" x 1" WHERE SHOWN ON PLAN - ALL SLABS TO BE SEALED
4. #1 FIBER REINFORCED CONCRETE, SLAB NATURAL COLOR - CLARE AND SEAL FINISH
CLEANOUT OPENINGS SHALL BE PROVIDED FOR CELLS CONTAINING SUMP
PUMPS. CLEANOUT WHEN THE PUMP EXCEEDS 2'-0" IN HEIGHT. CLEANOUT
OPENINGS SHALL HAVE A MINIMUM OF 12 SQUARE INCHES AND A MINIMUM
CLEAR DIMENSION OF 12" FOR THE DOWNWARD DOWEL. DOWNDOWEL PROVIDED AT ALL
CORNERS AND VERTICAL REINFORCEMENT MINIMUM 10" HOOK.
5. FOOTING MUST BE 12" BELOW STARTING GRADE OR COMPACTION TEST IS REQUIRED
PER CONTRACTOR.
6. NOTICE OF TERMITE PROTECTION SHALL BE PERMANENT SIGN THAT IDENTIFIES PROVIDER
OF TERMITE TREATMENT AND ELECTRICAL CONTRACTOR.

R318.1
TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMICIDES, INHALANTS, OR PESTICIDES, BATHING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE AS A PREVENTATIVE TREATMENT TO NEW CONSTRUCTION. SEE SECTION 202, "REGISTERED TERMICIDES." FOR ADDITIONAL INFORMATION ON TERMITE PREVENTATIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT HAS COMPLETED THE FOLLOWING: (1) THE TREATMENT HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES; TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."



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



CLIENT



Foundation Plan

SHEET
4 OF 9

CONTRACTOR TO VERIFY ALL AREA
CALCULATIONS AND DIMENSIONS BEFORE
STARTING CONSTRUCTION.

GENERAL PLAN NOTES

WINDOW GRILLS ARE OPTIONAL - PER OWNER.
ALL UNDIMENSIONED PARTITIONS ARE 4" ROUGH.

ALL ANGLED PARTITIONS ARE 45° UNLESS OTHERWISE NOTED.
ALL EXTERIOR DIMENSIONS ARE TO FACE OF STUDS UNLESS OTHERWISE NOTED.

ALL TRUSSES TO BEAR ON EXTERIOR WALLS AND/OR GIRDER TRUSSES UNLESS OTHERWISE NOTED. (TRUSS ENGINEERING BY OTHERS - TRUSS MANUFACTURER TO SIZE MEMBERS, FASTENERS, HANGERS, & AND SET SPACING FOR ALL TRUSSES.

PROVIDE FIRESTOPPING EVERY 8'-0" VERTICALLY IN FRAME WALLS > 8'-1".

ALL ELECTRICAL AND MECHANICAL EQUIPMENT ARE SUGGESTIVE AND SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS, CONTRACTORS TO VERIFY.

EXTERIOR FEATURES PORTRAYED ON THESE PLANS SUCH AS DECORATIVE COATING, DECORTIVE BANDING, DECORATIVE LOUVERS, & SIDING TYPE ARE SUGGESTIVE ONLY AND SUBJECT TO CHANGE PER OWNERS SPECIFICATIONS.

BATHROOM EXHAUST FANS MUST VENT TO THE EXTERIOR OF THE BUILDING, EXHAUST TO ATTIC SPACE AND SOFFITS IS NOT ACCEPTABLE.

ALL WINDOWS WITHIN 24" OF DOORS AND IN SHOWER OR TUB AREAS WILL BE SAFETY TEMPERED GLASS.

ALL DOOR AND WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO A POOL SHALL BE EQUIPPED WITH AN EXIT ALARM COMPLYING WITH UL 2017.

LAUNDRY NOTE: UNLESS OTHERWISE NOTED, PROVIDE DRYER VENT THRU ROOF MAX LENGTH 35', WASHER AND DRYER UNIT W/HANSON BOX @ 36" A.F.F.

ACCESS DOORS FROM CONDITIONED SPACES TO UNCONDITIONED SPACES IE, ATTICS OR CRAWLSPACE SHALL BE WEATHERSTRIPPED AND INSULATED TO A LEVEL EQUIV. TO THE INSULATION ON THE SURROUNDING SURFACES.

DOOR FROM GARAGE INTO HOUSE MUST BE A MINIMUM 1-3/8" SOLID WOOD DOOR, SOLID OR HONEYCOMB STEEL DOOR, OR 20 MINUTE FIRE RATED

ANY ACCESSIBLE SPACE BENEATH A STAIRWAY SHALL BE PROTECTED WITH 1/2" GYPSUM BOARD.

GENERAL CONSTRUCTION NOTES

SINCE SITE VISITATION IS NOT ALWAYS FEASIBLE OR NECESSARY, IT IS ASSUMED THAT THE SITE IS FLAT UNLESS A TOPOGRAPHY SURVEY IS FURNISHED SHOWING INFORMATION TO THE CONTRARY.

ANY SPECIAL STRUCTURAL DESIGN REQUIRED, NOT SHOWN BY THE DRAFTSMAN SHALL BE DONE BY A QUALIFIED STRUCTURAL ENGINEER OR LICENSED ARCHITECT.

ONLY WORK SHOW ON THIS DRAWING IS CERTIFIED BY THE ENGINEER OR ARCHITECT ON FILE.

VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD. ASSUMED SOIL BEARING PRESSURE MIN. 2000 PSF.

BACK FILLING BEHIND CONCRETE WALLS TO BE DONE IN 6" TO 12" LAYERS TAMPED.

ALL CONCRETE 3000 PSI IN 28 DAYS LOCKED IN PLACE.

ALL CONTRACTORS AND SUB-CONTRACTORS SHALL CONFORM TO ALL STATE AND LOCAL CODES APPLICABLE TO THEIR TRADES.

CONTRACTOR RESPONSIBLE FOR SUPERVISION OF CONSTRUCTION. SITE ENGINEERING, BUILDING PLACEMENT, SOIL ANALYSIS & TOPOGRAPHIC WORK WILL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR. ANY INFORMATION NOT CONSISTANT WITH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTSMAN IN WRITING.

TO THE BEST OF THE DRAFTSMANS' KNOWLEDGE THESE CONSTRUCTION DOCUMENTS ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS TYPE OF CONSTRUCTION OR OCCUPANCY.

ALL WORK PERFORMED BY THE GENERAL CONTRACTOR SHALL COMPLY AND CONFORM WITH LOCAL AND STATE BUILDING CODES, ORDINANCES AND REGULATIONS, ALONG WITH ALL OTHER AUTHORITIES HAVING JURISDICTION. THE GENERAL CONTRACTOR IS RESPONSIBLE TO BE AWARE OF THESE REQUIREMENTS AND GOVERNING REGULATIONS.

THE GENERAL CONTRACTOR SHALL THOROUGHLY REVIEW AND BECOME FAMILIAR WITH THESE DOCUMENTS. UPON REVIEW, THE GENERAL CONTRACTOR SHALL DOCUMENT AND NOTIFY THE DRAFTSMAN OF ANY ERRORS, OMISSIONS, DISCREPANCIES AND/OR INCONSISTENCIES PRIOR TO THE START OF ANY PORTION OF THE PROPOSED WORK. THE DRAFTSMAN SHALL REVIEW THE PROPOSED CORRECTIONS AFTER THE RECEIPT OF NOTIFICATION. THE DISCOVERY OF DISCREPANCIES AND/OR CONFLICTS AFTER THE START OF WORK SHALL BE THE FULL RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REPAIR OR REPLACE.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS REPRESENTED ON THESE DOCUMENTS INCLUDING WORK AND MATERIALS FURNISHED BY SUB-CONTRACTORS AND VENDORS.

DEVIATIONS FROM THESE DOCUMENTS IN CONSTRUCTION SHALL BE REVIEWED BY THE DRAFTSMAN AND THE OWNER PRIOR TO THE START OF WORK IN QUESTION. ANY DEVIATIONS FROM THESE DOCUMENTS WITHOUT PRIOR REVIEW, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

SHOP DRAWING REVIEW AND DISTRIBUTION, ALONG WITH PRODUCT SUBMITTALS, REQUESTED IN THE CONSTRUCTION DOCUMENTS, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR, UNLESS OTHERWISE DIRECTED UNDER A SEPARATE AGREEMENT.

TRUSS ENGINEERING IS PERFORMED BY OTHERS. TRUSS MANUFACTURER TO SIZE MEMBERS, FASTENERS, HANGERS & SET SPACING FOR ALL TRUSSES.

WINDOW SUPPLIER TO VERIFY AT LEAST ONE WINDOW IN ALL BEDROOMS TO HAVE A CLEAR EGRESS OPENING OF 5.7 SQ FT. WITH A MINIMUM DIMENSION OF 24" IN HEIGHT AND 20" IN WIDTH; SILL HEIGHT NOT GREATER THAN 44" ABOVE FLOOR.

ALL GUARDRAIL BALLUSTERS TO BE SPACED SUCH THAT A 4" SPHERE CANNOT PASS BETWEEN BALLUSTERS.

ALL ELECTRICAL AND MECHANICAL EQUIPMENT & METERS ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS; CONTRACTOR TO VERIFY.

AREA SPECIFICATIONS

| | |
|---------------|--------------|
| LIVING AREA | 2379 SQ. FT. |
| COVERED PORCH | 789 |
| TOTAL | 3168 SQ. FT. |

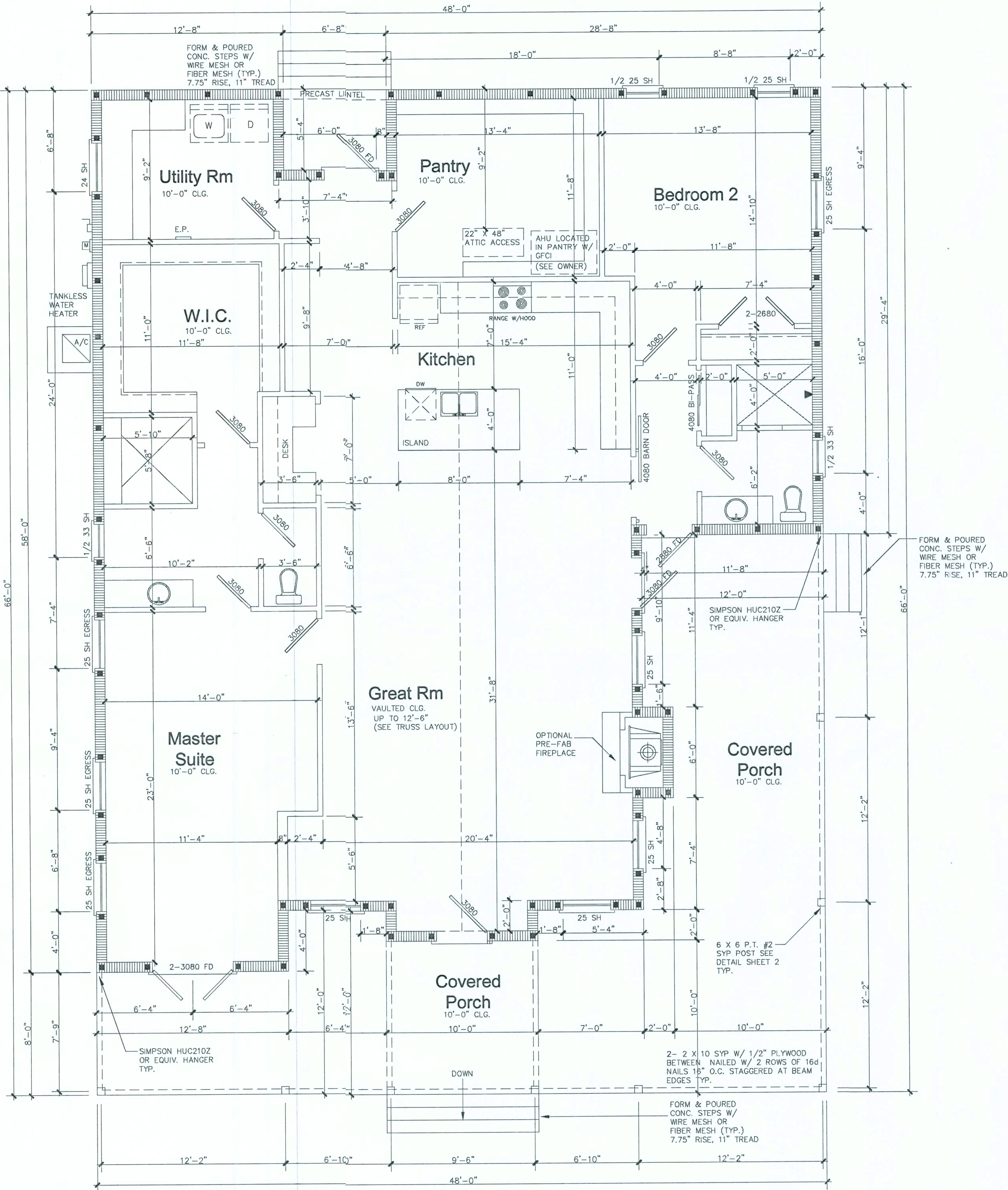
LEGEND

 TYP. 8" CMU WALL

 TYP. 2X STUD WALL

NOTE: ALL WALLS ARE DESIGNED AS SHEARWALLS

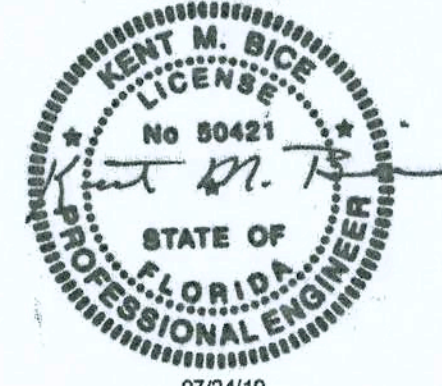
- (1) #5 REBAR AT CORNERS, INTERSECTIONS, EACH SIDE OF OPENINGS & AT 6'-0" MAX. TYP. PROVIDE #5 BELOW SILL FOR OPENINGS GREATER THAN 6'-0"W
- (2) #5 REBAR OR (1) #7 FOR OPENINGS 16'-0" OR LARGER TYP.
- (1) #5 REBAR BELOW SLAB (IN STEM WALL) OR
- (1) #5 REBAR RETROFIT (FOR RENOVATION)
- 5/8" X 6" LONG TITEN HD W/3"x3"x1/8" WASHER @ 18" O.C. ON BOTTOM PLATE, 6-12" FROM END WALLS



FLOOR PLAN

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

Engineer: Kent Bice
FL License #: 50421
COA #: 30498



07/24/19

CONTRACTOR TO VERIFY ALL AREA CALCULATIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION.

DRAWING NO. 219034

DATE: July, 2019

Floor Plan

SHEET 5 OF 9

NOTES:

Lane Residence
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Lake City, FL 32055

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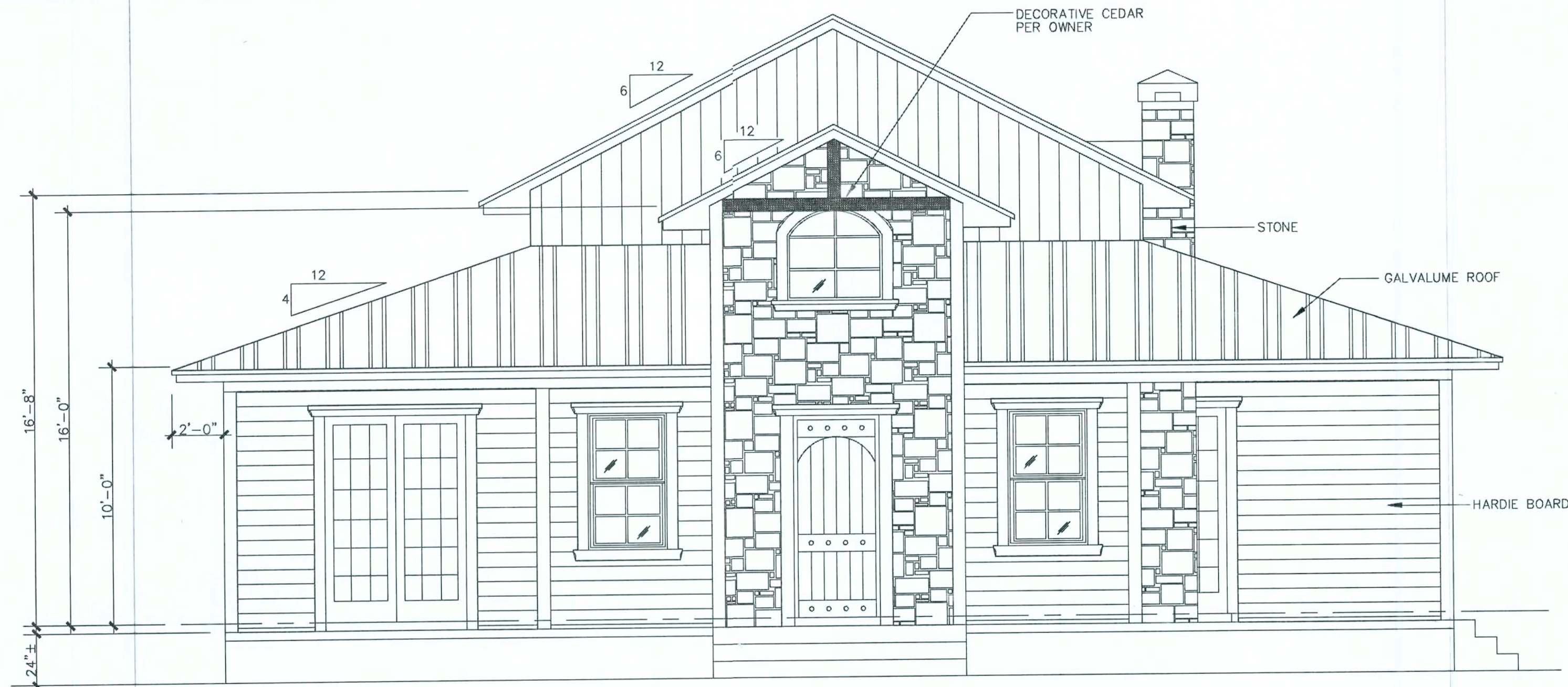


by Kent M. Bice, P.E.
1605 S.W. 10th St., Suite 100
Pompano Beach, FL 33062
Phone: (954) 785-6667 Fax: (954) 785-6668
www.BBDengineering.com

NOTE: WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THESE PLANS TO AVOID MISTAKES, THE DESIGNER CANNOT GUARANTEE AGAINST HUMAN ERROR. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO VERIFY DIMENSIONS AND OTHER DETAILS ON THE PLANS AND NOTIFY THE OWNER OF ANY DISCREPANCIES BEFORE COMMENCING CONSTRUCTION.

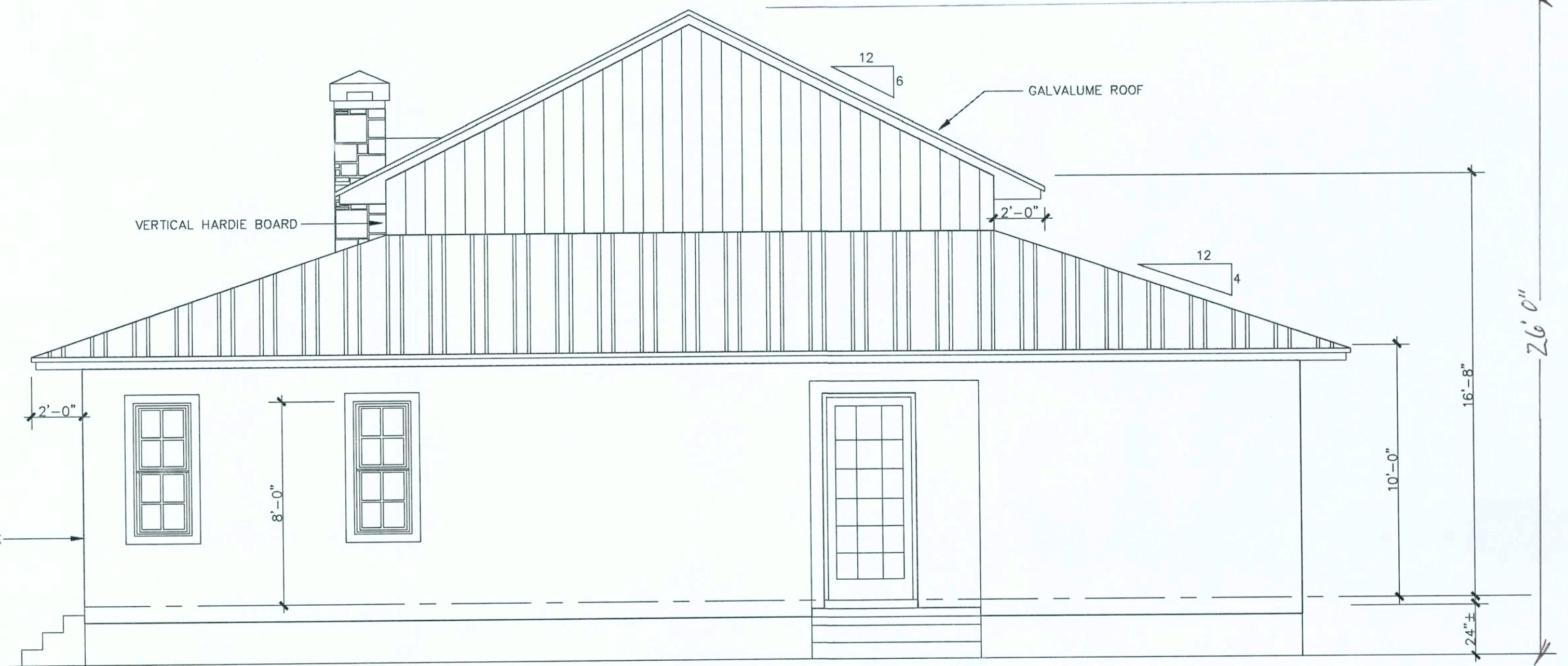
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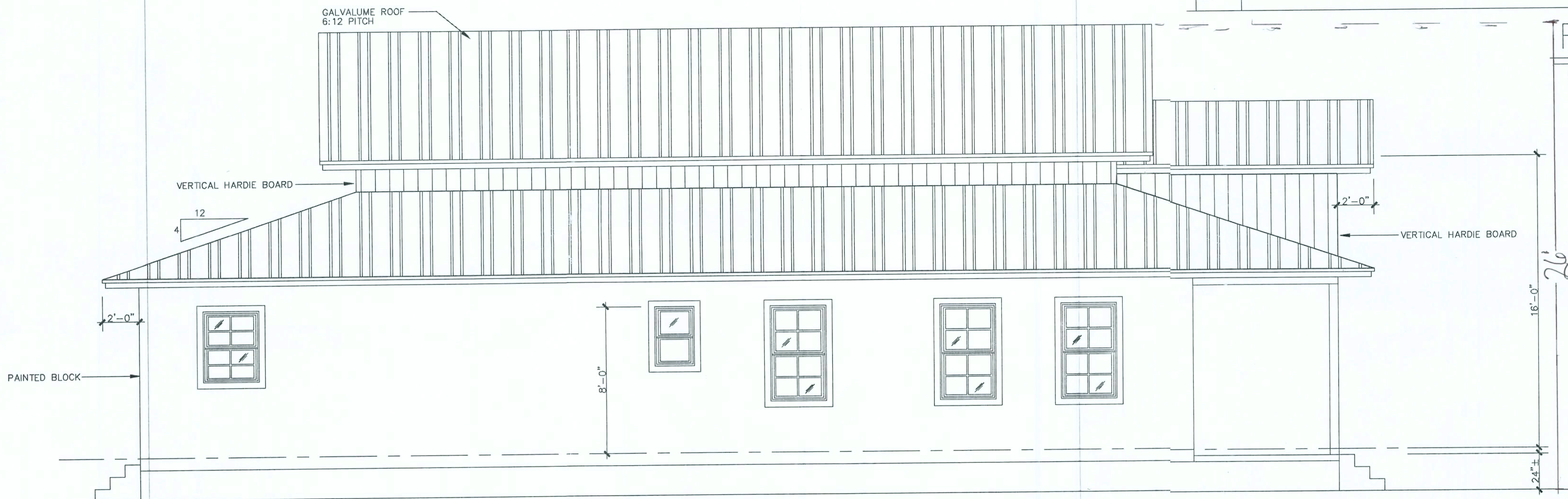
FRONT ELEVATION

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



REAR ELEVATION

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



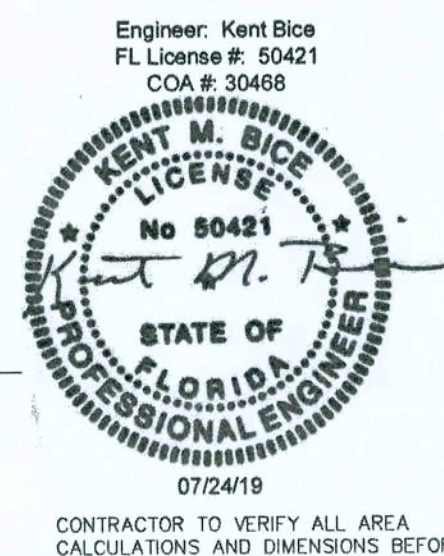
LEFT ELEVATION

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



RIGHT ELEVATION

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



Engineer: Kent Bice
FL License #: 50421
COA #: 30466

07/24/19
CONTRACTOR TO VERIFY ALL AREA
CALCULATIONS AND DIMENSIONS BEFORE

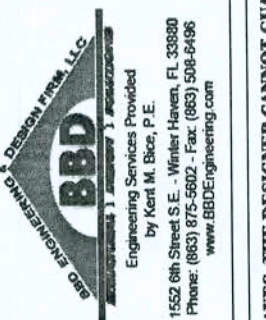
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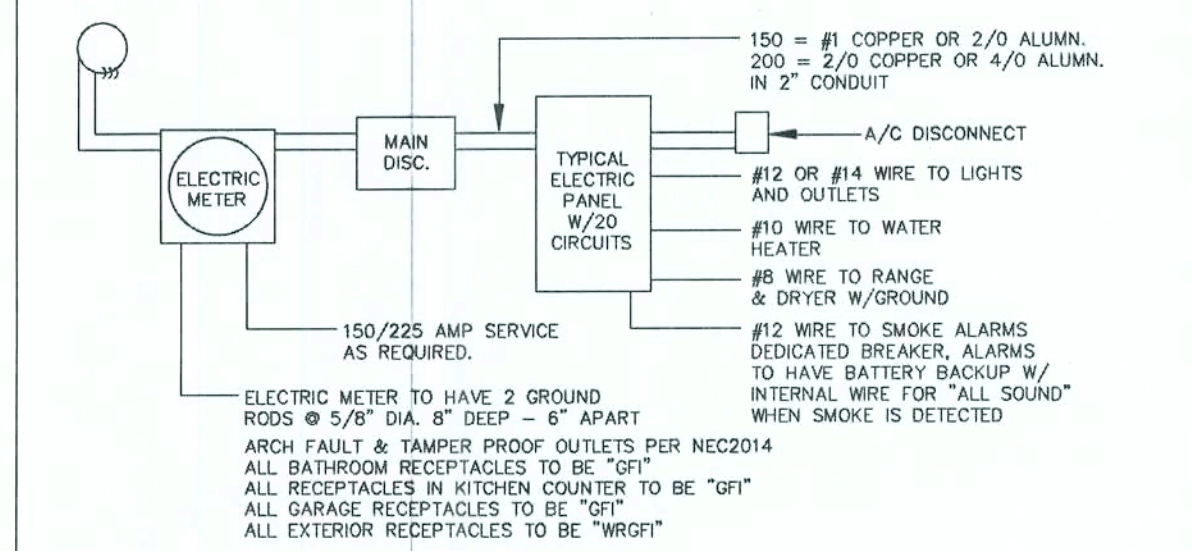
Elevations

SHEET
6 OF 9

NOTE: THESE ELEVATION ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THESE PLANS TO AVOID MISTAKES, THE DESIGNER CANNOT GUARANTEE AGAINST HUMAN ERROR. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO VERIFY DIMENSIONS AND OTHER DETAILS ON THE PLANS AND NOTIFY DESIGNER OF ANY ERRORS OR OMISSIONS BEFORE STARTING CONSTRUCTION.

| ELECTRICAL KEY | | | |
|--------------------------|--|----------|--|
| 110V OUTLET | | CABLE | |
| EXTERIOR OUTLET | | WR/GFI | |
| 220V OUTLET | | PHONE | |
| WALL SWITCH | | HOSE BIB | |
| CEILING LIGHT | | | |
| EXHAUST FAN | | | |
| CAN LIGHT | | | |
| WALL LIGHT | | | |
| SOFFIT LIGHT | | | |
| CEILING FAN | | | |
| SMOKE DETECTOR | | | |
| CARBON MONOXIDE DETECTOR | | | |
| FLOURESCENT LIGHT | | | |
| TYP. ELECTRICAL LINE | | | |
| PULL CHAIN | | | |

ELECTRICAL RISER DIAGRAM



ELECTRICAL NOTES

ELECTRICAL OUTLET HEIGHTS AS MEASURED FROM FINISHED FLOOR TO CENTERED LINE OF THE BOX TO BE 16" A.F.F. (GENERAL)

KITCHEN 44" A.F.F.
BATHROOM 39" A.F.F.
LAUNDRY ROOM 36" A.F.F.
EXTERIOR WATERPROOF 12" A.F.F.
GARAGE GENERAL PURPOSE 42" A.F.F.
RANGE 2" A.F.F.

ALL TRIM PLATES & DEVICES TO BE GANGED, WHERE POSSIBLE.

ELECTRICAL SWITCHES TO BE 42" CENTERLINE A.F.F.

ELECTRICAL PLAN IS INTENDED FOR BID PURPOSES ONLY. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NEC, LATEST EDITION, AND 6TH EDITION FBRC.

ELECTRICAL CHAPTER 34-43, AND BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION AND SIZING OF ALL ELECTRICAL WIRING AND ACCESSORIES

SMOKE DETECTOR SHALL BE IN ACCORDANCE WITH FBC R31.4.1 AND LISTED IN ACCORDANCE WITH UL 217.

PROVIDE AFCI's COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT IN ALL DWELLING UNITS.

CARBON MONOXIDE PROTECTION: CARBON MONOXIDE ALARMS OR DETECTORS SHALL BE INSTALLED IN ALL DWELLING UNIT IN ACCORDANCE WITH NFPA 70-14. SUCH DEVICES SHALL BE LISTED BY THE APPROPRIATE STANDARD, EITHER ANSI/UL 2034, STANDARD FOR SINGLE AND MULTIPLE STATION CO ALARMS OR UL2075, GAS AND VAPOR DETECTOR SENSOR, ACCORDING TO INSTALLATION.

COMBINATION ALARMS: COMBINATION SMOKE/CARBON MONOXIDE ALARMS SHALL BE PERMITTED IF EACH MEETS THE APPLICABLE UL STANDARD.

KEEP ALL SMOKE DETECTORS MINIMUM 36" FROM BATHROOM DOORS.

IN NEW CONSTRUCTION, SMOKE DETECTORS SHALL BE HARDWIRED INTO AN A/C ELEC. POWER SOURCE AND SHALL BE EQUIPPED WITH A MONITORED BATTERY BACKUP.

BATHROOM EXHAUST FANS MUST VENT TO THE EXTERIOR OF THE BUILDING, VENTILATION TO ATTIC SPACE AND SOFFITS IS NOT APPLICABLE.

ALL DOORS AND WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO A POOL SHALL BE EQUIPPED WITH AN EXIT ALARM COMPLYING WITH UL 2017 THAT HAS A MIN. SOUND PRESSURE RATING OF 85dBA AT 10 FT. AND EITHER HARDWIRED OR OF THE PLUG-IN TYPE. THE EXIT ALARM SHALL PRODUCE A CONTINUOUS AUDIBLE WARNING WHEN THE DOOR OR WINDOW IS OPENED.

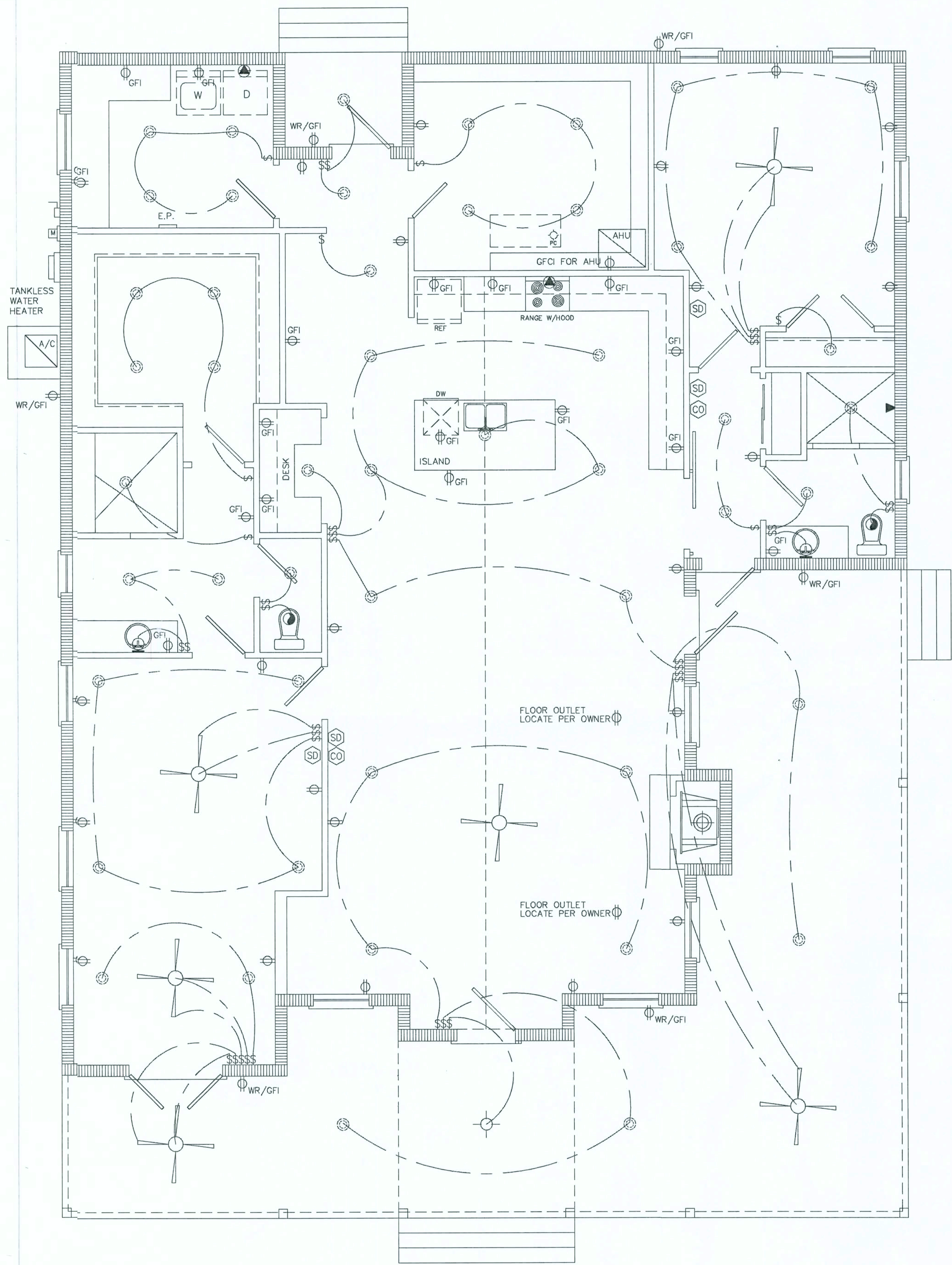
ADD GFCI PROTECTION TO RECEPTACLES IN LAUNDRY ROOM AND UTILITY ROOMS OF DWELLINGS WHERE INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF A SINK. THIS WOULD INCLUDE THE RECEPTACLE INSTALLED FOR WASHING MACHINE.

IN ALL AREAS SPECIFIED IN NEC 210.52 AND IN 6TH EDITION FBRC E3901, ALL 125V, 15 AND 20 AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTS. PER 2017 NEC 406.11 AND 6TH EDITION FBRC E4002.14

RECEPTACLE OUTLETS IN GARAGE FOR GARAGE DOOR OPENER TO BE GROUND FAULT CIRCUIT INTERRUPTER (GFCI).

ALL PERMANENT INTERIOR AND EXTERIOR LIGHT FIXTURES TO BE 100% CFL BULBS.

COORDINATE ELECTRICAL REQUIREMENTS FOR A/C WITH AIR CONDITIONING CONTRACTOR.



ELECTRICAL LAYOUT

SCALE: 1/4" = 1'-0" (SUGGESTIVE ONLY)

Engineer: Kent Bice
FL License #: 50421
COA #: 30468

07/24/19

CONTRACTOR TO VERIFY ALL AREA CALCULATIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION.

DRAWING NO. 219034
DATE: July, 2019
Electrical Layout

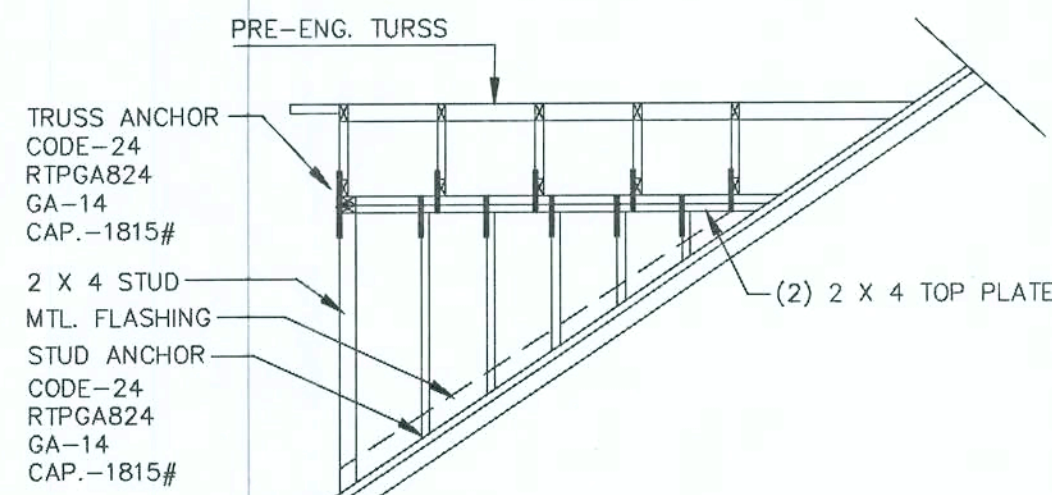


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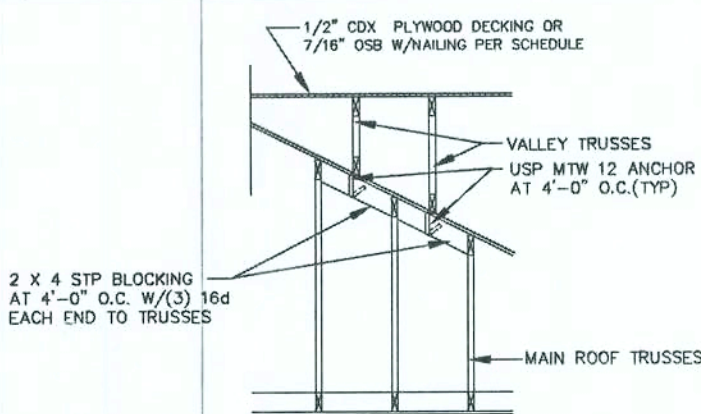
NOTES:

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ROOF PLAN DETAILS

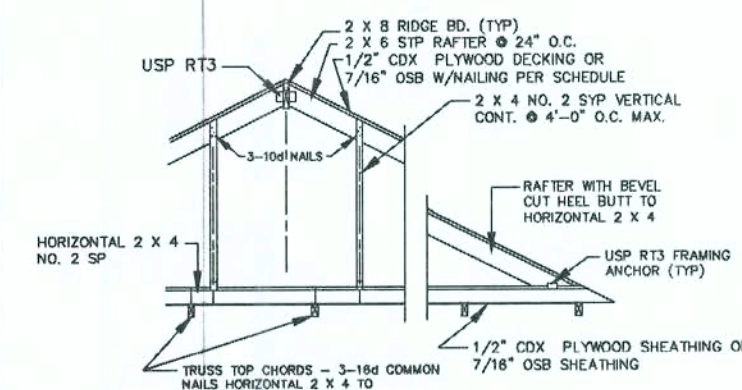


DORMER DETAIL
SCALE: 1/4" = 1'-0"



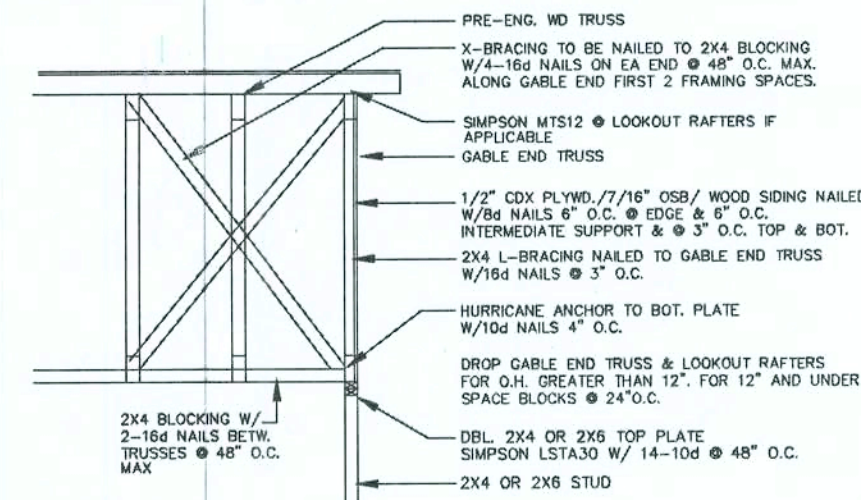
VALLEY TRUSS ANCHOR DETAIL

WHERE VALLEY TRUSS IS PARALLEL TO MAIN TRUSS



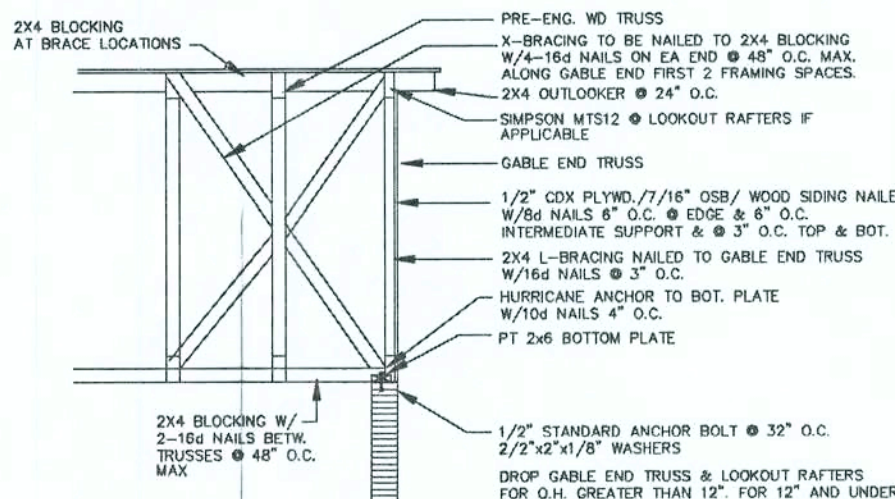
RIDGE & HEEL CONNECTIONS

| STUD SPACING | W/O BRACE | 2x4 L-BRACE | (2) 2x4 L-BRACE OR (1) 2x6 | (2) 2x6 L-BRACE |
|--------------|-----------|-------------|----------------------------|-----------------|
| 18" O.C. | 3'-8" | 7'-0" | 9'-6" | 13'-2" |
| 24" O.C. | 3'-3" | 6'-2" | 8'-4" | 11'-8" |

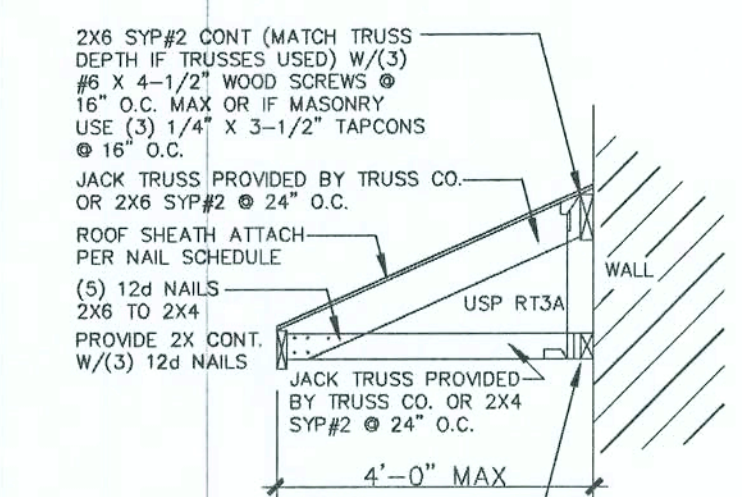


GABLE END TRUSS DETAIL

| STUD SPACING | W/O BRACE | 2x4 L-BRACE | (2) 2x4 L-BRACE OR (1) 2x6 | (2) 2x6 L-BRACE |
|--------------|-----------|-------------|----------------------------|-----------------|
| 18" O.C. | 3'-8" | 7'-0" | 9'-6" | 13'-2" |
| 24" O.C. | 3'-3" | 6'-2" | 8'-4" | 11'-8" |



GABLE END TRUSS DETAIL



SHED ROOF SECTION
SCALE: N. T. S.

ROOF PLAN NOTES

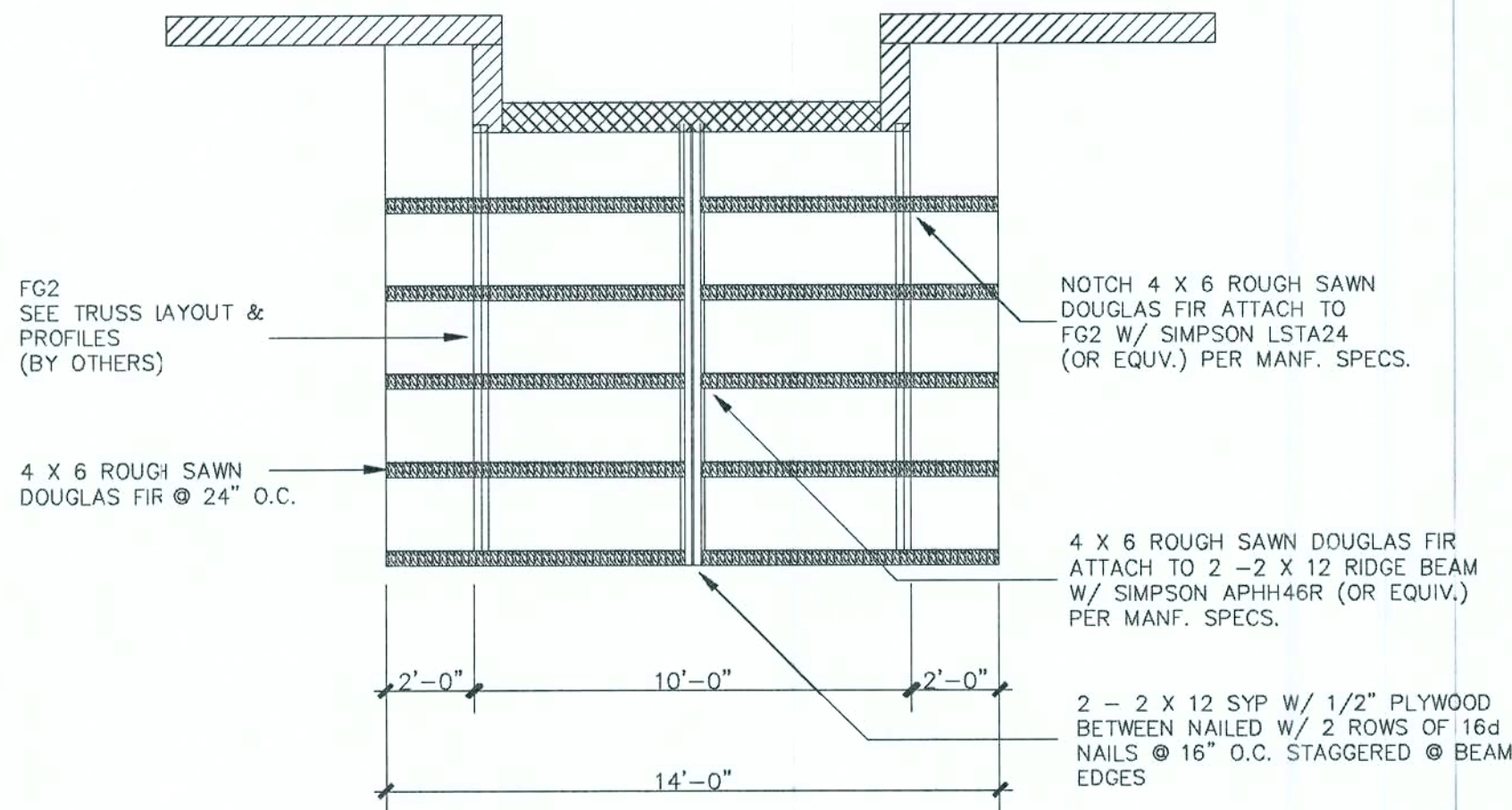
- THIS ROOF PLAN IS NOT INTENDED TO SERVE AS A TRUSS DESIGN. IT IS TO INDICATE ROOF, CEILING SLOPES AND HEIGHTS ONLY.
- TRUSS MANUFACTURER TO VERIFY ALL TRUSS SPANS, SLOPES, BEARING POINTS, AND DIMENSIONS BEFORE FABRICATION. ALSO, TRUSS MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR FINAL APPROVAL BEFORE FABRICATION.
- ALL ROOF PITCHES ARE TO BE SET AS INDICATED ON PLANS AND ELEVATIONS.
- TOP PLATE HEIGHTS VARY. SEE BUILDING SECTIONS, WALL SECTIONS, AND ELEVATIONS FOR BEARING HEIGHTS.
- TRUSS SPACING SHALL BE 24" O.C. UNLESS OTHERWISE NOTED. CONVENTIONAL FRAMING SHALL BE 16" O.C. OR AS OTHERWISE NOTED.
- 1/2" PLYWOOD OR 7/16" OSB ROOF DECKING NAILED AS FOLLOWS WITHIN 4'-0" OF ALL EAVES AND RIDGES: 6" O.C. (EDGE AND FIELD)
- ALL OTHER AREAS- 6" O.C. ON EDGES, 6" O.C. IN FIELD
- USE 8d RINK SHANK, GALV. OR RING SHANK NAILS WITH 8d RINK SHANK NAILS AT GABLE ENDS
- FRAME WALLS UP TO UNDERSIDE OF ROOF TRUSSES AT ALL NON-BEARING WALLS AND AT VOLUME AREA UNLESS OTHERWISE NOTED.
- ALIGN TRUSSES AND HAND FRAMING SO AS ALL GYPSUM WALL BOARD TO BE CONTINUOUS FROM FLOOR TO CEILING.
- TRUSS MANUFACTURER TO INSURE DESIGN CONSIDERATION TO THE FOLLOWING ADDITIONAL LOADS: ALL CEILING HUNG SOFFITS AND SOFFITS W/ CABINETS AS SHOWN ON PLANS

ATTIC VENTILATION SECTION 1203.2 ATTIC SPACE

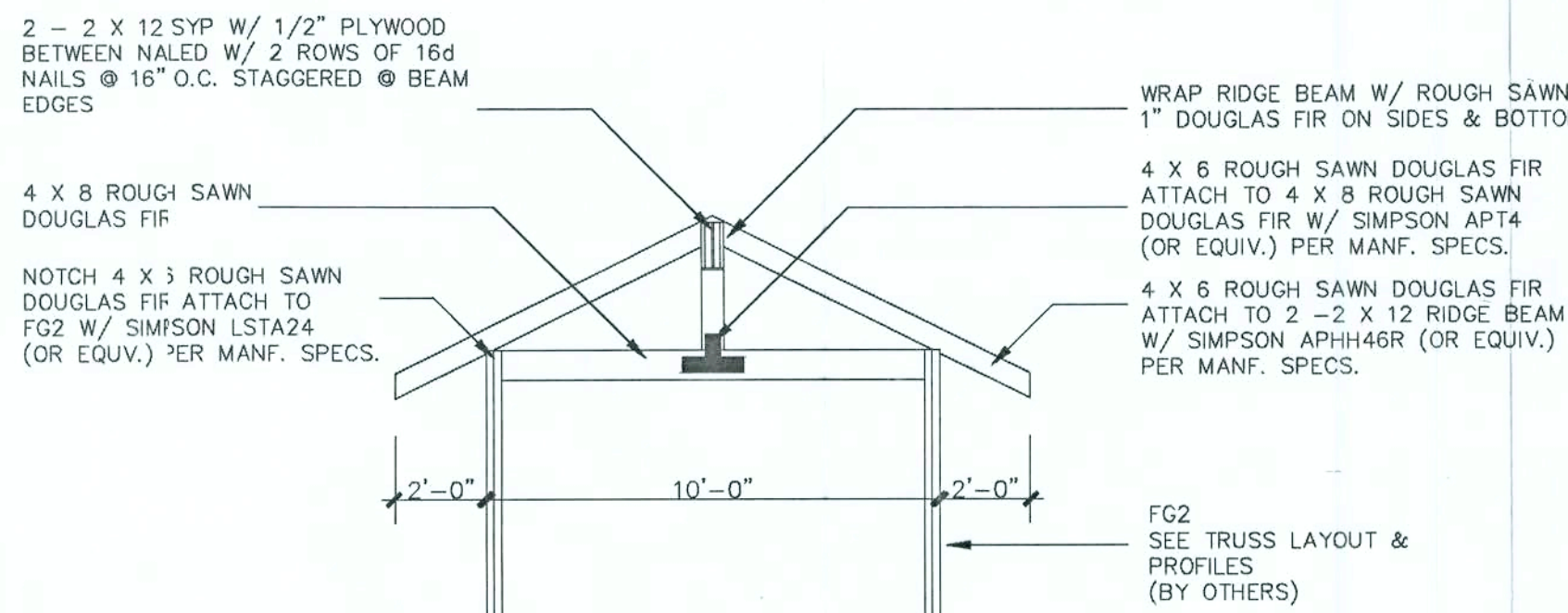
ENCLOSED ATTIC & ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF FRAMING MEMBERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN AND SNOW. BLOCKING AND BRIDGING SHALL BE ARRANGED SO AS NOT TO INTERFERE WITH THE MOVEMENT OF AIR. A MINIMUM OF 1" (25mm) OF AIRSPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND THE ROOF SHEATHING. THE NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/300 OF THE AREA OF THE SPACE VENTILATED. WITH 50% OF THE REQUIRED VENTILATED AREA PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3'-0" (914mm) ABOVE SAVED OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS

EXCEPTION: ATTIC SPACES DESIGNED BY A FLORIDA LICENCED ENGINEER OR REGISTERED ARCHITECT TO ELIMINATE THE ATTIC VENTING.

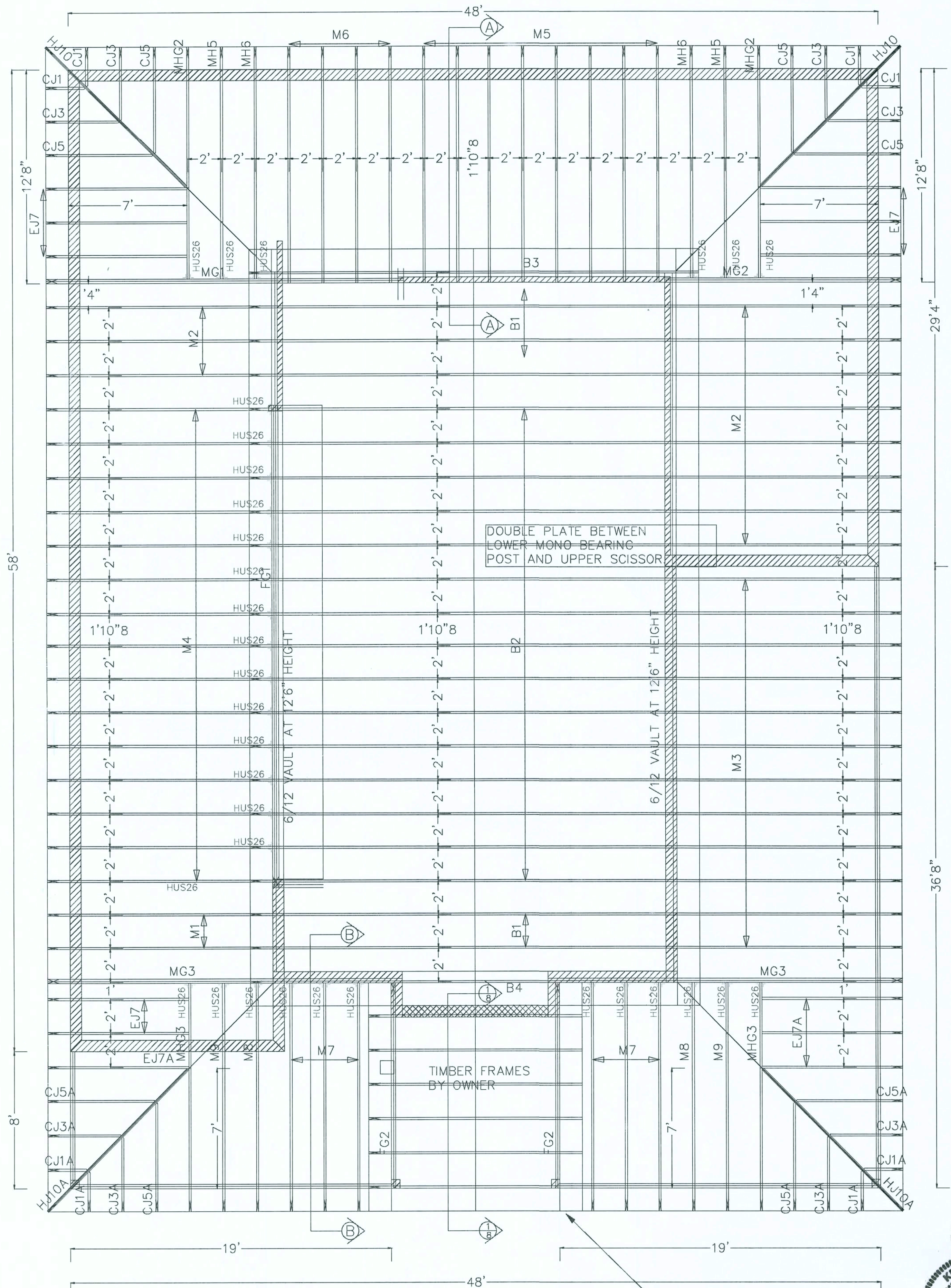
ATTIC IS VENTLESS & SEALED WITH ICYNENE INSULATION



CONVENTIONAL FRAMING SECTION - TIMBER FRAME
SCALE: 1/4" = 1'-0"



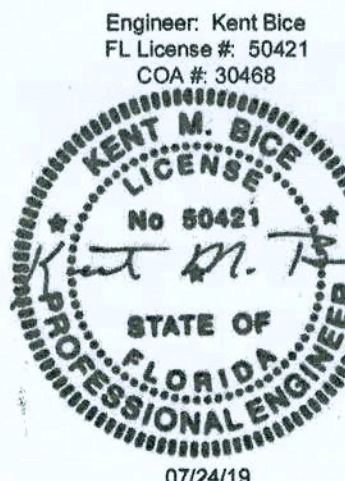
CONVENTIONAL FRAMING - TIMBER FRAME
SCALE: 1/4" = 1'-0"



ROOF LAYOUT

SCALE: 1/4" = 1'-0" USE AS GUIDE ONLY
TRUSS ENGINEERING BY OTHERS

USE THIS ROOF PLAN AS A GUIDE ONLY.
PRE-ENGINEERED TRUSSES @ 24" O.C. TO
BE DESIGNED AND PROVIDED SEPARATE BY
A STATE LICENSED TRUSS ENGINEER/PROVIDER.



CONTRACTOR TO VERIFY ALL AREA
CALCULATIONS AND DIMENSIONS BEFORE
STARTING CONSTRUCTION.

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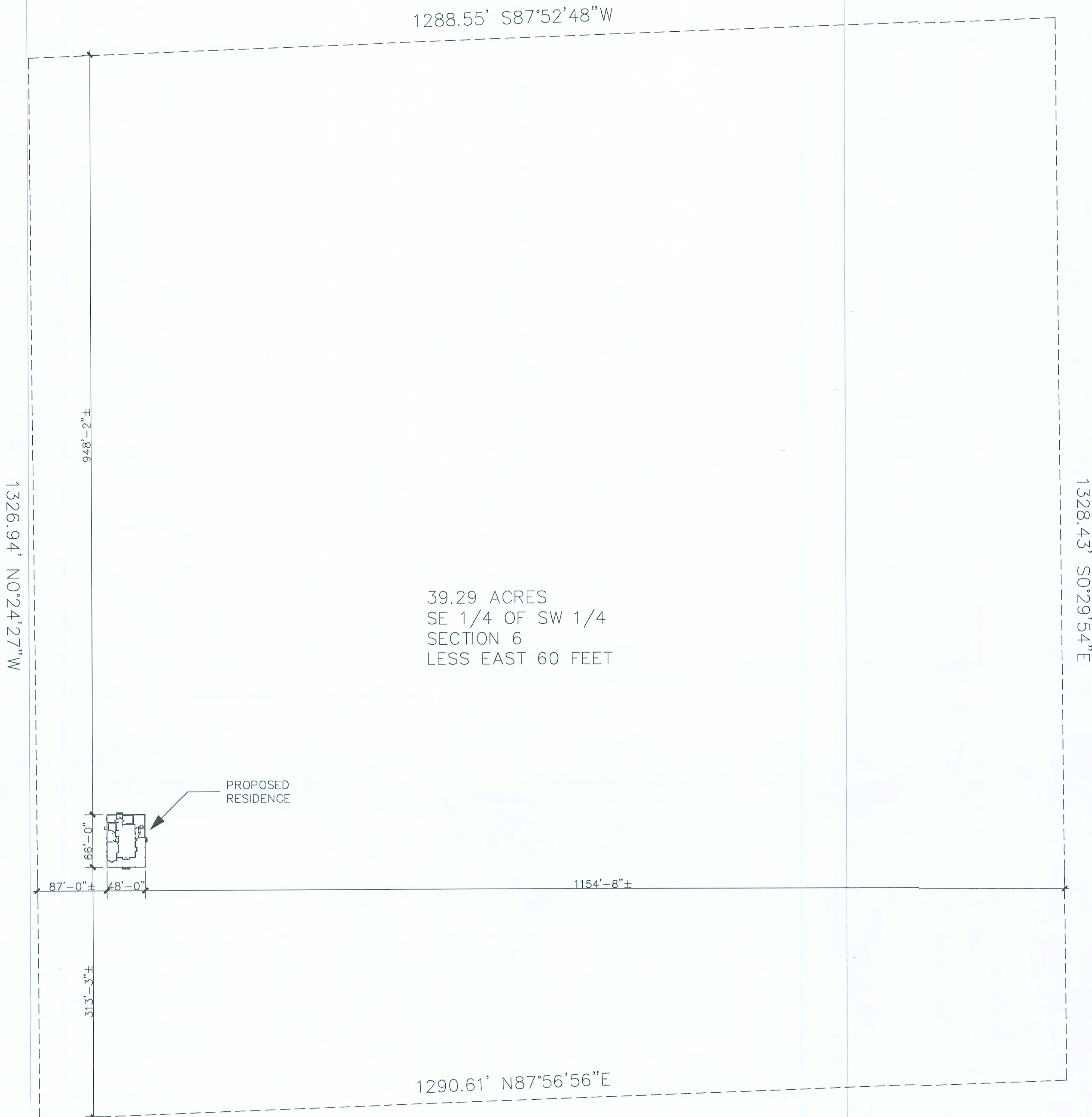
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Roof Layout

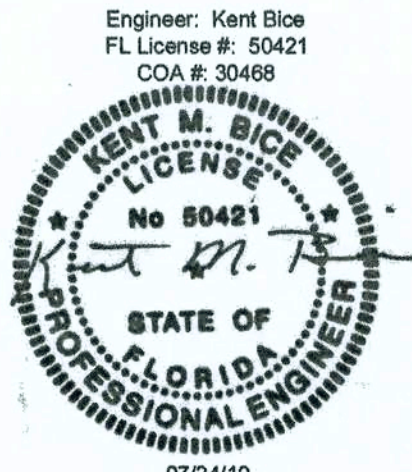
SHEET
8 of 9

NOTE: WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THESE PLANS TO AVOID MISTAKES, THE DESIGNER CANNOT GUARANTEE THE ACCURACY OF THE PLANS AND OTHER DATA ON THE PLANS AND NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THE STARTING CONSTRUCTION.



SITE PLAN

SCALE: N.T.S. (SURVEY BY OTHERS)

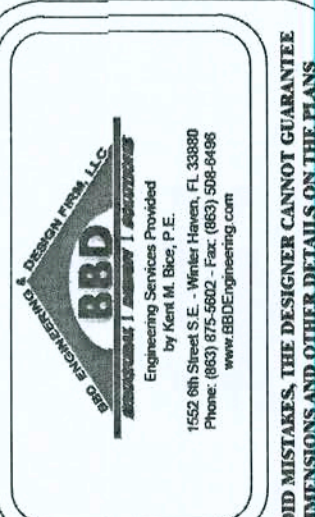


CONTRACTOR TO VERIFY ALL AREA CALCULATIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION.

DRAWING NO. 219034
DATE: July, 2019

Site Plan

SHEET
9 of 9

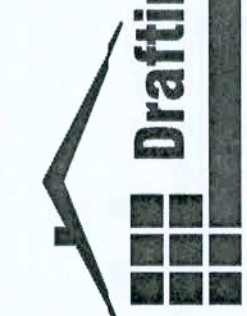


NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND OTHER DETAILS ON THE PLANS AND NOTIFY DESIGNER OF ANY ERRORS OR OMISSIONS BEFORE STARTING CONSTRUCTION.

CLIENT

Lane Residence
1616 NW Moore Farms Rd.
Lake City, FL 32055

NOTES:



Drafting Design Service, Inc.

3035 Cypress Gardens Rd
Winter Haven, FL 33884
(863) 324-4657
Draftingdesignservice.com

Since 1975

SITE PLAN

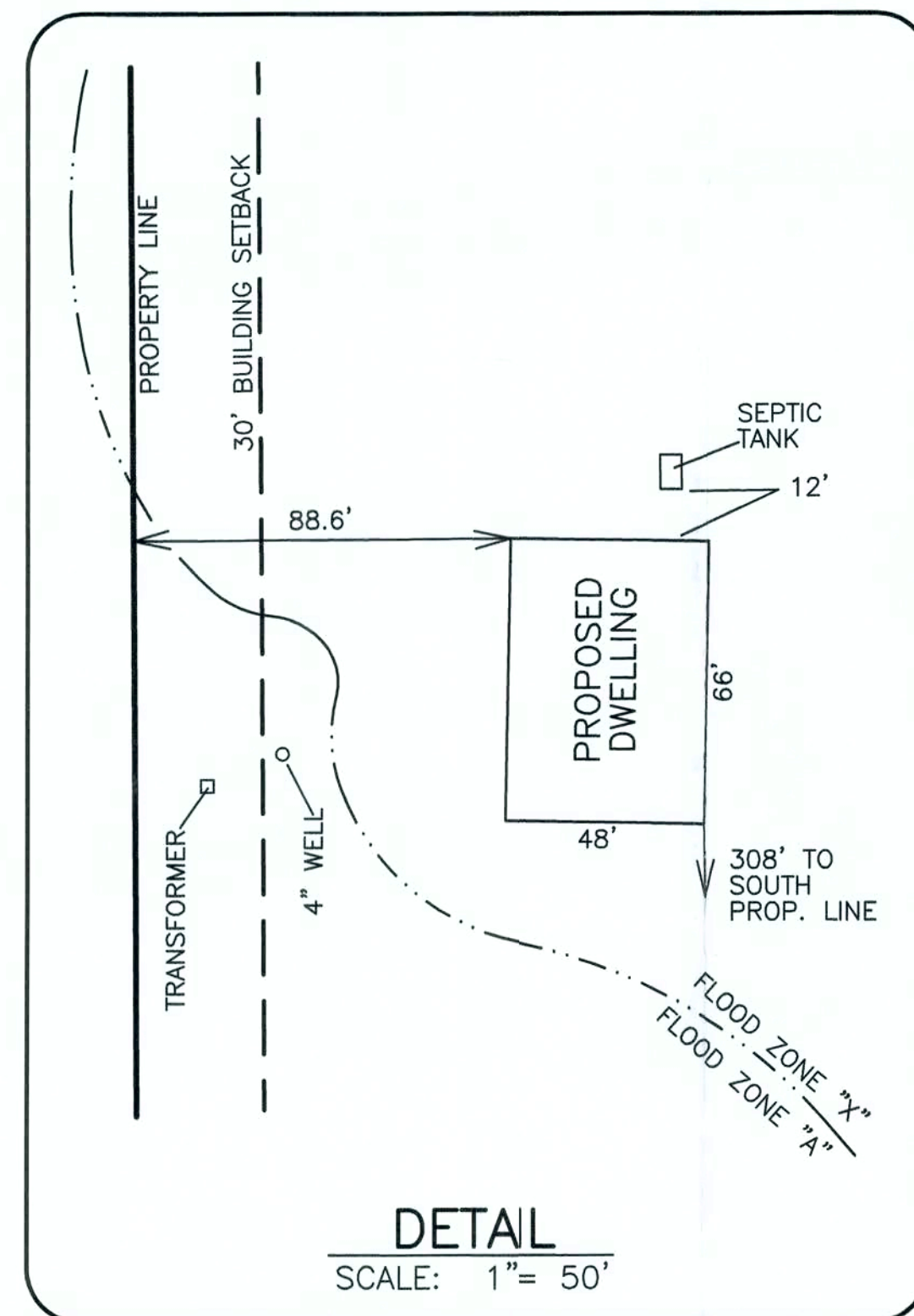
IN SECTIONS 6 & 7
TOWNSHIP 3 SOUTH, RANGE 17 EAST
COLUMBIA COUNTY, FLORIDA

DESCRIPTION

The Southeast 1/4 of the Southwest 1/4 of Section 6, Township 3 South, Range 17 East, Columbia County, Florida, less and except the East 60 feet thereof.

TOGETHER WITH an easement for ingress and egress purposes, being 40 feet in width, lying 40 feet North of and adjacent to the following described line: COMMENCE at the Southwest corner of Section 6, Township 3 South, Range 17 East, Columbia County, Florida and run North 87°56'56" East along the South line of said Section 6 a distance of 940.42 feet to the POINT OF BEGINNING; thence continue North 87°56'56" East along the South line of said Section 6 a distance of 414.89 feet to the Southeast corner of the Southwest 1/4 of the Southwest 1/4 of said Section 6, and the TERMINAL POINT of herein described line.

AND an easement for ingress and egress purposes, being 40 feet in width, lying 20 feet left (East) of and 20 feet right (West) of the following described centerline: COMMENCE at the Northwest corner of Section 7, Township 3 South, Range 17 East, Columbia County, Florida and run North 87°56'56" East along the North line of said Section 7 a distance of 982.88 feet to the POINT OF BEGINNING; thence South 29°06'59" East a distance of 417.97 feet; thence South 02°52'57" West a distance of 126.60 feet; thence South 49°02'31" West a distance of 282.47 feet; thence South 52°41'43" West a distance of 500.62 feet; thence South 25°23'33" West a distance of 925.06 feet to the Northerly end of the maintained right-of-way of NW Moore Farm Road and the TERMINAL POINT of herein described centerline and easement.



NOT A SURVEY

EASEMENT TO
NW MOORE
FARM ROAD

40' INGRESS/EGRESS EASEMENT
414.89'

WETLANDS

N 02°42'27" W
1326.94'

30' BUILDING SETBACK

FLOOD ZONE "X"
FLOOD ZONE "A"

POND

TRAIL RD.

PROPOSED DWELLING
(SEE DETAIL)

ZONING: A-3

FLOOD ZONE "X"
FLOOD ZONE "A"

39.29 ACRES

SE 1/4 OF SW 1/4
SECTION 6
LESS EAST 60 FEET

S 87°52'48" W
1288.55'

WETLANDS & FLOOD ZONE "A"

FLOOD ZONE "X"
FLOOD ZONE "A"

WETLANDS

FLOOD ZONE "X"
FLOOD ZONE "A"

WETLANDS

1290.61'
N 87°56'56" E

25' BUILDING SETBACK

POND AND RUN-OFF

S 02°54'54" E
1328.43'

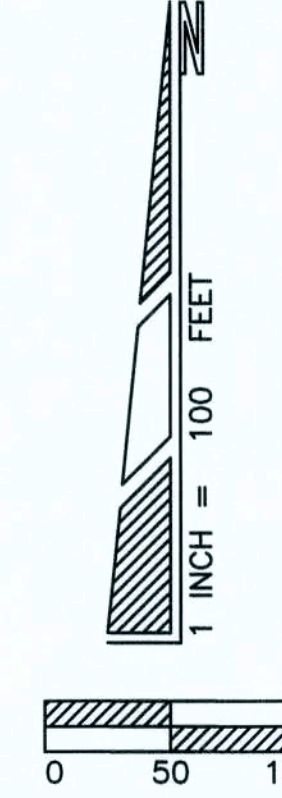
N 02°54'54" W
1328.51'

EAST 60 FEET OF
SE 1/4 OF SW 1/4
NOT A PART

East Line of
SE 1/4 OF SW 1/4

60.02'

60.02'



FILE: A-64-33

DATE: 9-19-19
W.O. No. 19-7276
CAD FILE: 7276.DWG
FOR: Emory Lane



Donald F. Lee and Associates, Inc.

SURVEYORS
140 Northwest Ridgewood Avenue, Lake City, Florida 32055
Phone: (386) 755-6166 FAX: (386) 755-6167
Certificate of Authorization # LB 7042

— Copy not to scale —

Revised
9/23/19