

## TERMITE SPECIFICATIONS:

- A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR RE-INSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. (FBC 104.2.6)
- CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALKS. (FBC 1503.4.4)
- IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" OF THE BUILDING SIDE WALLS. (FBC 1503.4.4)
- TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERING AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6 INCHES.  
EXCEPTION: PAINT OR DECORATIVE CEMENTATIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. (FBC 1403.1.6)
- INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. (FBC 1816.1.1)
- SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED AND FORMED. (FBC 1816.1.2)
- BOXED AREAS IN CONCRETE FLOORS FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., 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. (FBC 1816.1.3)
- MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. (FBC 1816.1.4)
- CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. (FBC 1816.1.5)
- SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. (FBC 1816.1.6)
- AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. (FBC 1816.1.6)
- ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. (FBC 1816.1.7)
- 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." (FBC 1816.1.7)
- AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAY BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. (FBC 2303.1.3)
- NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. (FBC 2303.1.4)

A.B. Anchor Bolt  
Abv. Above  
A/C Air-Conditioner  
Adj. Adjustable  
A.F.F. Above Finished Floor  
A.H.U. Air Handler Unit  
ALT. Alternate  
B.C. Base Cabinet  
B.F. Bifold Door  
Bk Sh. Book Shelf  
Bm. Beam  
BOT. Bottom  
B.P. Bypass door  
Brg. Bearing  
Cir. Circle  
Clg. Ceiling  
Col. Column  
Comp. A/C Compressor  
C.T. Ceramic Tile  
D. Dryer  
Dec. Decorative  
Ded. Dedicated Outlet  
Dbl. Double  
Dia. Diameter  
Disp. Disposal  
Dist. Distance  
D.S. Drawer Stack  
D.V. Dryer Vent  
D.W. Dishwasher  
Ea. Each  
E.W. Each Way  
Elec. Electrical  
Elev. Elevation  
Ext. Exterior  
Exp. Expansion

F.B.C. Florida Bldg. Code  
Fin. Fir. Finished Floor  
F.G. Fixed Glass  
Flr. Floor  
Fdn. Foundation  
Flr. Sys. Floor System  
F.P. Fireplace  
Ft. Foot / Feet  
Flg. Flooring  
PX. Fixed  
Galv. Galvanized  
G.C. General Contractor  
G.F.I. Ground Fault Interrupter  
G.T. Glider Truss  
Hdr. Header  
Hgt. Height  
HB. Hose Bibb  
Int. Interior  
K/Wall. Kneewall  
K.S. Knee Space  
Laun. Laundry  
Lav. Lavatory  
L.F. Linear Ft.  
L.T. Laundry Tub  
Mas. Masonry  
Max. Maximum  
M.C. Medicine Cabinet  
MDP. Master Distribution Panel  
Mfr. Manufacturer  
Micro. Microwave  
Min. Minimum  
M.L. Microfilm  
Mir. Mirror  
Mono. Monolithic  
N.T.S. Not to Scale

Op'n.g. Opening  
Opt. Optional  
Pc. Piece  
Ped. Pedestal  
P.L. Parاللam  
Pounds per lineaoat  
Plt. Ht. Plate Height  
Plt. Sh. Plant Shelf  
PSF. Pounds per squa foot  
P.T. Pressure Treated  
Pwd. Powder Room  
Rad. Radius  
Ref. Refrigerator  
Req'd. Required  
Rm. Room  
Rnd. Round  
R/SH. Rod and Shelf  
SD. Smoke Detector  
S.F. Square Ft.  
Sh. Shelves  
SHT. Sheet  
S.L. Side Lights  
S.P.F. Spruce Pine Fir  
Sq. Square  
S.Y.P. Southern Yellow ne  
Temp. Tempered  
Thik'n. Thickened  
T.O.B. Top of Block  
T.O.M. Top of Masonry  
T.O.P. Top of Plate  
Trans. Transom Window  
Typ. Typical  
UGL. Under Cabinet Lifting  
U.N.O. Unless Noted Othwise  
VB. Vanity Base  
Vert. Vertical  
V.L. Versalam  
VTR. Vent through Roc  
W. Washer  
W. Water Closet  
W.A. Wedge Anchor  
Wd. Wood  
WP. Water Proof

## STRUCTURAL NOTES:

### FOUNDATIONS

SOIL TO BE COMPACTED TO AT LEAST 95% OF MAX. DRY DENSITY AS DETERMINED BY ASTM - 1557 (MODIFIED PROCTOR)

### FOUNDATION INSPECTIONS

A FOUNDATION SURVEY SHALL BE PERFORMED AND A COPY OF THE SURVEY SHALL BE ON SITE FOR THE BUILDING INSPECTORS USE. OR ALL PROPERTY MARKERS SHALL BE EXPOSED AND A STRING STRETCHED FROM MARKER TO MARKER TO VERIFY REQUIRED SETBACKS.

### CAST IN PLACE CONCRETE

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI. A SLUMP OF 6" PLUS OR MINUS 1", AND HAVE 2 TO 5% AIR ENTRAINMENT, AND A MAXIMUM WATER/CEMENT RATIO OF 0.63
- ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 40.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. WWF SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 6".
- HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS.
- HORIZONTAL FOOTING BARS SHALL BE BENT 1'-0" AROUND CORNERS OR CORNER BARS WITH A 2'-0" LAP PROVIDED.
- MINIMUM LAP SPLICES ON ALL REINFORCING BAR SPLICES SHALL BE 40 BAR DIAMETERS TYP.
- CONCRETE COVER MIN. 3" WHEN EXPOSED TO EARTH OR 1 1/2" TO FORM

### MASONRY WALL CONST.

- HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI (f<sub>m</sub> = 1350 PSI)
- MORTAR SHALL BE TYPE "M" OR "S", CONFORMING TO ASTM C270.
- COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI SLUMP 8" TO 11".
- VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH THE CELLS FILLED WITH COARSE GROUT.
- VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM AND AT A MAXIMUM SPACING OF 192 BAR DIAMETERS. REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE MASONRY CELL TYPICAL UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS, UNLESS OTHERWISE NOTED ON THE DRAWINGS
- GROUT STOPS SHALL BE PROVIDED BELOW BOND BEAM, PLASTIC SCREEN, METAL LATH STRIP OR CAVITY CAPS MAY BE USED TO PREVENT THE FLOW GROUT INTO CELLS BELOW. THE USE OF FELT PAPER AS A STOP IS PROHIBITED.

### WOOD CONSTRUCTION

- WOOD CONSTRUCTION SHALL CONFORM TO THE NFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", LATEST EDITION.
- ALL EXTERIOR WOOD STUD WALLS, BEARING WALLS, SHEAR WALLS AND MISC. STRUCTURAL WOOD FRAMING MEMBERS, (I.E. BLOCKING OR GABLE END BRACING) SHALL BE EITHER SOUTHERN PINE, OR S.P.F. NUMBER 2 GRADE SHALL BE USED REGARDLESS OF SPECIES.
- ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIA. SHALL HAVE STUD PROTECTION SHIELDS FOR ALL HOLES OVER 1" IN DIA. FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 STUD SHOES, TYP., U.N.O.

### WOOD FRAMING INSPECTION

ALL PLUMBING, ELECTRICAL, AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING FRAMING INSPECTION.

### PREFABRICATED WOOD TRUSSES

- ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH HURRICANE CLIPS OR ANCHORS.
- PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
- TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPORTIONED, WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 25% TO WITHSTAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL DEAD LOAD.
- BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURER UNLESS NOTED ON THE PLANS.
- TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE FOLLOWING DESIGN LOADS:
- DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER THE TRUSS PLATE INSTITUTE (TPI) LATEST EDITION.
- PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND GOVERNING CODES. SUBMITTALS SHALL INCLUDE TRUSS FRAMING PLANS AND DETAILS SHOWING MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND PERMANENT BRACING AND/OR BRIDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENT STRUCTURE. EACH SUBMITTAL SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER. SUBMIT 3 COPIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS, WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

### UPLIFT CONNECTORS

- UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLEASE CONSULT THE TRUSS ENGINEERING FOR THE LOCATION OF THESE WALLS.

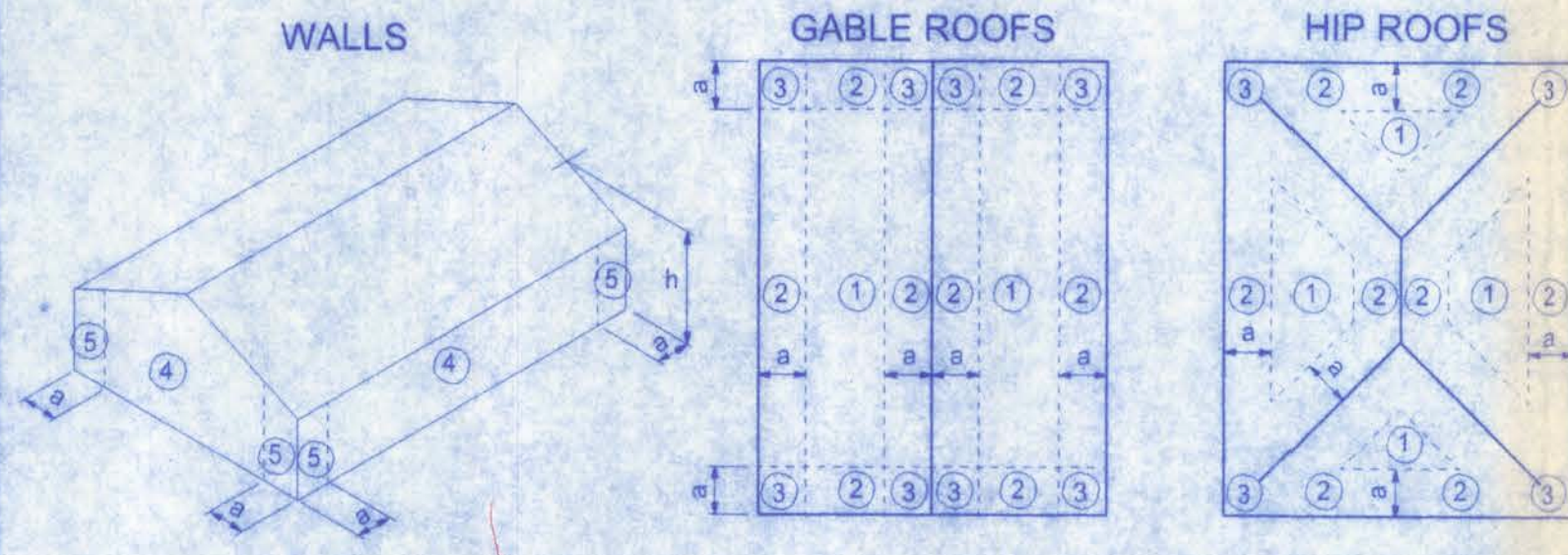
### FIELD REPAIR NOTES

- MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED W/ (1) "SIMPSON MTSMB16 3/8" TWIST STRAP W/ (4) 1/4" X 2 1/4" DIA. TIEBARS TO THE BOND & BEAM BLOCK AND (7) 10# TO THE TRUSS FOR UPLIFTS OF 1,000 LBS. OR LESS. USE (2) FOR 2000 LBS. OR LESS. OTHERS MAY BE SUBSTITUTED ON A CASE BY CASE BASIS.
- MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED W/ 1/2" DIA. ANCHOR BOLTS SET IN 3/4" DIA X 6" DEEP UNITEK "PROPOXY" 300 ADHESIVE BINDER FOLLOWING ALL MANUFACTURERS RECOMMENDATIONS (1" OR 1 1/2" X 8" STUD EXPANSION ANCHORS).
- REGARDING MISSED REBAR IN VERTICAL FILLED CELLS: DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDDMENT EPOXY (SIMPSON "EPOXY TIE SET" OR HILTI "2 PART" EMBEDDMENT EPOXY), MIXED PER MANUFACTURER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM POUR.
- HURRICANE STRAPS MAY BE SUBSTITUTED WITH A STRAP OF GREATER HOLDOWN VALUE OR GREATER UPLIFT VALUE IN THE FIELD WITHOUT VERIFICATION. PROVIDED ALL MANUFACTURERS INSTALLATION INSTRUCTIONS ARE FOLLOWED.
- FOR MORTAR JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (1" BAR DOES NOT HAVE TO BE CONT. TO FOOTING)

## STRUCTURAL DESIGN CRITERIA

|                                    |                                                                                                                                                                                                                                                                                                                                                    |                                                                 |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>CODES:</b>                      | FLORIDA BUILDING CODE, 2007 EDITION<br>BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-05)<br>SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS (ACI 301-05)<br>BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-05)<br>NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2001 EDITION<br>APA PLYWOOD DESIGN SPECIFICATION |                                                                 |
| <b>LIVE LOADS:</b>                 | ROOF<br>RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED<br>BALCONIES<br>STAIRS<br>LIGHT PARTITIONS (DEAD LOAD), U.N.O.                                                                                                                                                                                                                               | 20 PSF (REDUCIBLE)<br>40 PSF<br>40 PSF<br>40 PSF<br>20 PSF      |
| <b>WIND LOADS: (F.B.C.)</b>        | WIND LOADS BASED ON FBC, SECTION 1609<br>WIND VELOCITY: 110 M.P.H., USE FACTOR: 1.0                                                                                                                                                                                                                                                                |                                                                 |
| <b>CONCRETE STRENGTH @ 28 DAYS</b> | ALL CONCRETE UNLESS OTHERWISE INDICATED<br>PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY<br>(DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS)                                                                                                                                                                                                            | 2500 PSI<br>3000 PSI                                            |
| <b>REINFORCING:</b>                | WELDED WIRE FABRIC SHALL CONFORM TO<br>ALL REINFORCING BARS<br>ALL STIRRUPS AND TIES                                                                                                                                                                                                                                                               | ASTM A185<br>ASTM A615-40 40,000 PSI<br>ASTM A615-40 40,000 PSI |
| <b>CONCRETE MASONRY UNITS:</b>     | ASTM C90-99b, STANDARD WEIGHT UNITS, f <sub>m</sub> =1500 PSI<br>MORTAR TYPE "S", 1800 PSI<br>CONCRETE GROUT 3000 PSI<br>CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION                                                                                                                                                             |                                                                 |
| <b>STRUCTURAL STEEL:</b>           | ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O.<br>SHOP AND FIELD WELDS: E70XX ELECTRODES<br>ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307                                                                                                                                                                                      |                                                                 |
| <b>WOOD FRAMING:</b>               | BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O.<br>NO. 2 SOUTHERN YELLOW PINE (19% M.C.)<br>ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR, OR OSB<br>FLOOR SHEATHING: T&G A-C GROUND 1 APA RATED (48/24)<br>WALL SHEATHING: PLYWOOD C-C/C-D, EXTERIOR OR OSB<br>VERSA LAM BEAM Fb = 2900 PSI (2.0E)<br>WOOD COLS. PARALLAM 2.0E U.N.O.                           |                                                                 |
| <b>WOOD ROOF TRUSSES:</b>          | TOP CHORD LIVE AND DEAD LOAD:<br>BOTTOM CHORD DEAD LOAD:<br>TOTAL:                                                                                                                                                                                                                                                                                 | 30 PSF<br>10 PSF<br>40 PSF                                      |
| <b>WOOD FLOOR TRUSSES:</b>         | DESIGN LOADS:<br>DEAD LOAD:<br>LIVE LOAD:<br>TOTAL:                                                                                                                                                                                                                                                                                                | 15 PSF<br>40 PSF<br>55 PSF                                      |
| <b>SOIL BEARING VALUE:</b>         | ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 1,500 PSF<br>SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS<br>IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET OR EXCEED THE CAPACITY<br>THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN.                |                                                                 |

| ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2007 |                                          |          |                     |
|---------------------------------------------------------------------------------|------------------------------------------|----------|---------------------|
| BASIC WIND SPEED                                                                | 110 MPH                                  |          |                     |
| IMPORTANCE FACTOR                                                               | 1.0                                      |          |                     |
| BUILDING CATEGORY                                                               | II                                       |          |                     |
| EXPOSURE                                                                        | B                                        |          |                     |
| INTERNAL PRESSURE COEFFICIENT                                                   | +/- 0.18                                 |          |                     |
| TYPE OF STRUCTURE                                                               | ENCLOSED                                 |          |                     |
| MWFRS PER ASCE 7<br>DESIGN WIND PRESSURES<br>WORST CASE                         | Zone 1 - Windward Wall                   |          | 18.2 psf            |
|                                                                                 | Zone 2 and 3 - Windward and Leeward Roof |          | -27.3 psf           |
|                                                                                 | Zone 2 - Sloped Windward Roof            |          | +4.9 psf, -11.7 psf |
|                                                                                 | Zone                                     |          |                     |
|                                                                                 | 3 - Leeward Roof                         |          | -14.6 psf           |
|                                                                                 | 4 - Leeward Wall                         |          | -12.8 psf           |
|                                                                                 | 5 & 6 Sidewalls                          |          | -16.4 psf           |
|                                                                                 | Zone 7 - Overhang                        |          | 14.4 psf            |
|                                                                                 | Wall                                     | windward |                     |
|                                                                                 |                                          | Zone 4   | 25.0 psf            |
|                                                                                 |                                          | Zone 5   | 25.0 psf            |
|                                                                                 |                                          | positive |                     |
|                                                                                 |                                          | Zone 1   | 14.4 psf            |
|                                                                                 |                                          | Zone 2   | 14.4 psf            |
| COMPONENTS AND CLADDING PER ASCE 7<br>DESIGN WIND PRESSURES<br>WORST CASE       | Roof                                     | leeward  |                     |
|                                                                                 |                                          | Zone 1   | -22.9 psf           |
|                                                                                 |                                          | Zone 2   | -48.4 psf           |
|                                                                                 |                                          | Zone 3   | -48.4 psf           |



a: 10% of least horizontal dim., or 0.4h, whichever is smaller, but not less than  
either 4% of least horizontal dimension or 3 ft.  
h: mean roof height, in feet.

## COMPONENTS AND CLADDING

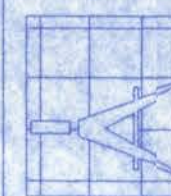
## INDEX OF SHEETS

| SHEET NUMBER | DESCRIPTION         |
|--------------|---------------------|
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| A-2          | SITE PLAN           |
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| A-6          | ROOF PLAN           |
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LEMMIE AND MARY CAMPBELL

128 SW NASSAU STREET  
LAKE CITY, FL 32025  
(813) 556 4200



Freeman  
Design Group

DATE

10/14/09

DRAWN BY

W.H.F.

APPROVED

W.H.F.

REVISIONS

SHEET

A-1

OF

9

PROJECT NO.

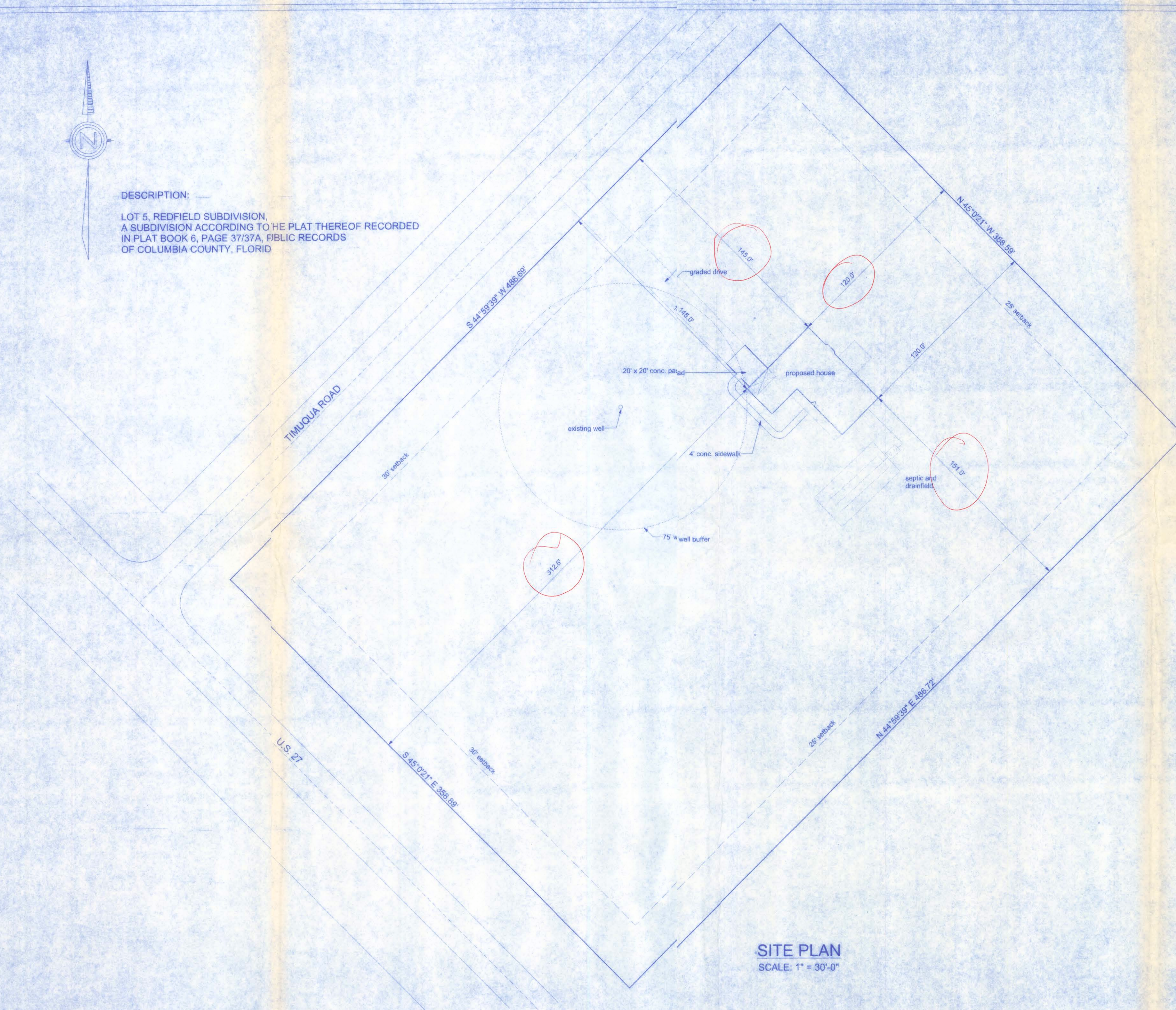
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CERTIFICATE OF AUTHORIZATION # 00009701

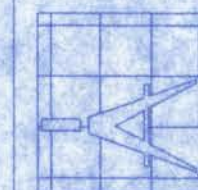


DESCRIPTION:

LOT 5, REDFIELD SUBDIVISION,  
A SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED  
IN PLAT BOOK 6, PAGE 37/37A, PUBLIC RECORDS  
OF COLUMBIA COUNTY, FLORIDA



SITE PLAN  
SCALE: 1" = 30'-0"



Freeman  
Design Group

128 SW NASSAU STREET  
LAKE CITY, FL 32025  
(386) 758-1200

CERTIFICATE OF AUTHORIZATION # 00008701

DATE 10/14/09 DRAWN BY M.H.F.

REVISIONS

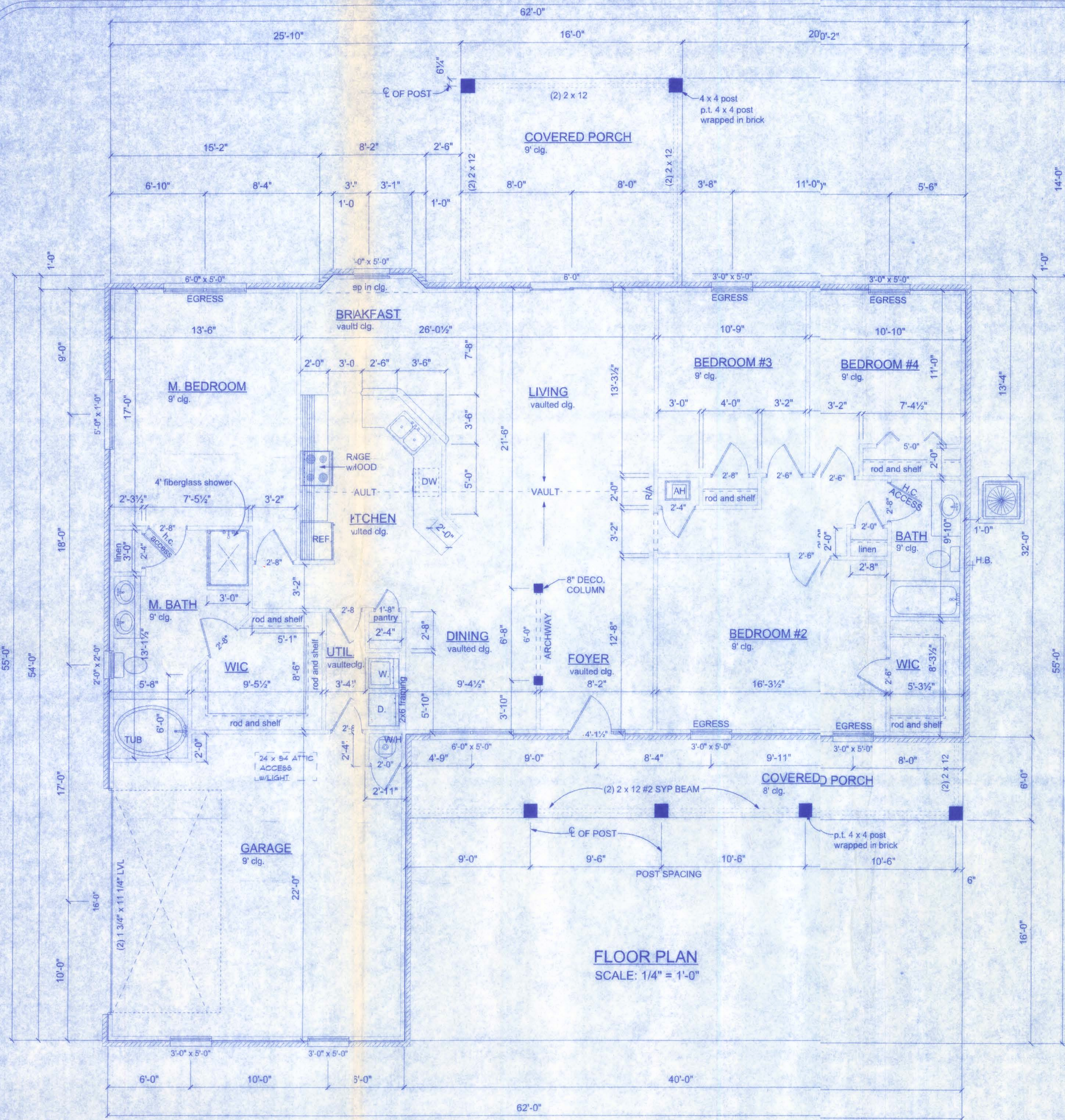
SHEET 1-2

OF 9

PROJECT NO.  
09.R010

LEMMIE AND MARY CAMPBELL

W. H. F. 10/20/09  
REAR SIGN



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

| PRODUCT CODE           | SIZE          | COUNT |
|------------------------|---------------|-------|
| 60X80 LH ENTRY - 2 SL  | 5'-0"         | 1     |
| 72x80 sliding french 2 | 6'-0"         | 1     |
| 192X84 - 2 PANEL       | 16'-0"        | 1     |
| 60X80 BIFOLD           | 5'-0"         | 1     |
| 1668                   | 1'-6"         | 1     |
| 1868                   | 1'-8"         | 1     |
| 2068-MODIFIED          | 2'-0"         | 1     |
| 2468                   | 2'-4"         | 2     |
| 2668-MODIFIED          | 2'-6"         | 3     |
| 2668                   | 2'-6"         | 1     |
| 2868-MODIFIED          | 2'-8"         | 4     |
| 2868                   | 2'-8"         | 3     |
| 18X30 CASEMENT         | 5'-0" x 1'-0" | 1     |
| 24X24 CASEMENT 1       | 2'-0" x 2'-0" | 1     |
| (2) SH 3050            | 6'-0" x 5'-0" | 2     |
| SH 3050                | 3'-0" x 5'-0" | 7     |

| AREA SUMMARY |          |
|--------------|----------|
| HEATED       | 2,054 SF |
| GARAGE       | 499 SF   |
| PORCHES      | 423 SF   |
| TOTAL        | 2,976 SF |

- GENERAL NOTES:**
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
  - THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
  - AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
  - THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.
  - THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
  - ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
  - ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
  - ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
  - ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

**CONSTRUCTION DOCUMENTS:**  
THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

**DO NOT SCALE THESE PLANS:**  
AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE ITEMS NOT DIMENSIONED.

**CHANGES TO PLAN SETS:**  
PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATIONS ON THE PLANS.

**NOTE:**  
EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS, AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:

ANSI/AAMA/NWDA 101/IS2 2/97

THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

**SEPARATION REQUIRED:**  
the garage shall be separated from the residence and its attic area by not less than 1/2" gypsum board applied to the garage side. garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8" Type X gypsum board or equivalent. where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than 1/2" gypsum board or equivalent.

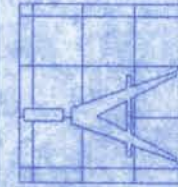
**OPENING PROTECTION:**  
openings from a private garage directly into a room used for sleeping purposes shall not be permitted. other openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8" in thickness, solid or honeycomb steel doors not less than 1 3/8" thick, or a 20-minute fire rated doors.

**DUCT PENETRATION:**  
ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage sheet steel or other approved material and shall have no openings into the garage.

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CERTIFICATE OF AUTHORIZATION # 00000701



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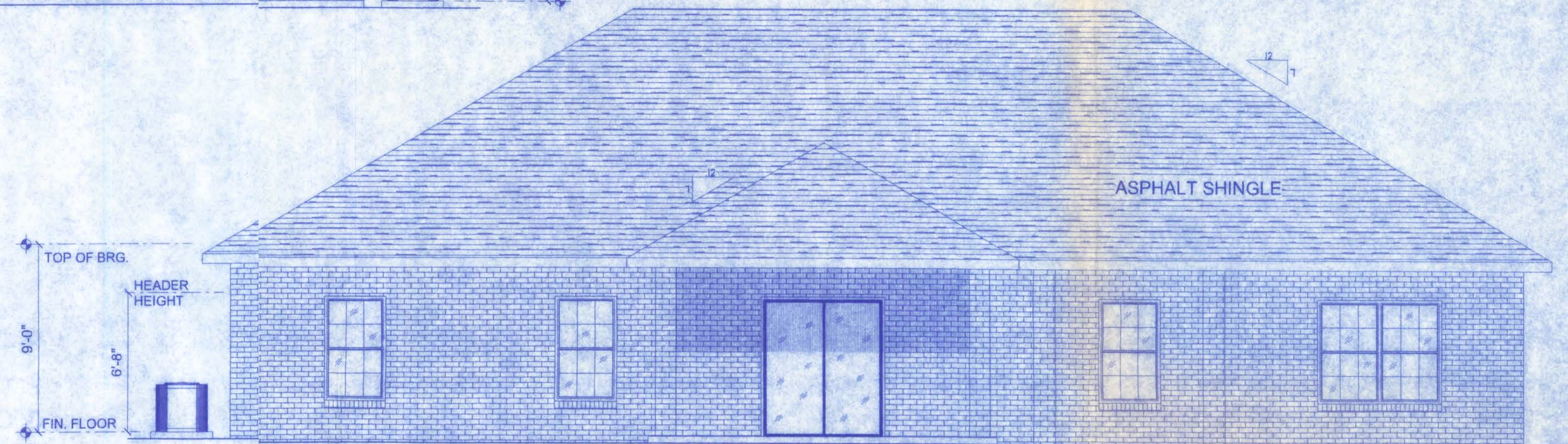
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| DATE<br>10/14/09      | DRAWN BY<br>W.H.F. |
|                       | APPROVED<br>W.H.F. |
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| OF                    |                    |
| PROJECT NO.<br>09 R04 |                    |



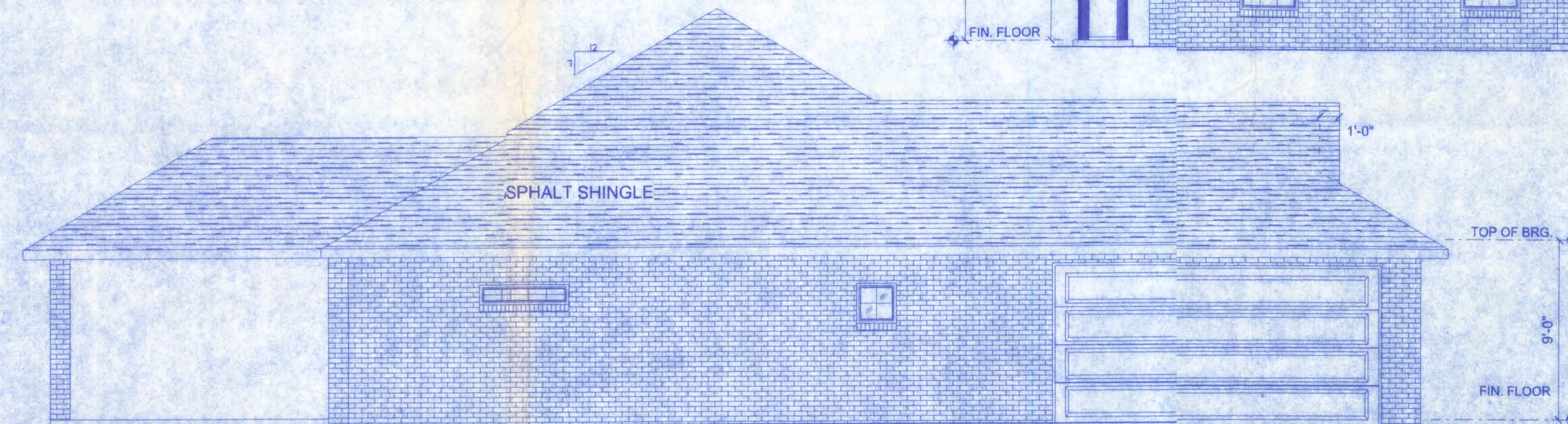
**FRONT ELEVATION**  
SCALE: 1/4" = 1'-0"

**NOTE:**  
THE RIDGE HEIGHT IS GIVEN FOR MEAN ROOF  
HEIGHT DETERMINATION ONLY. DO NOT USE  
THIS DIMENSION FOR ROOF CONSTRUCTION.

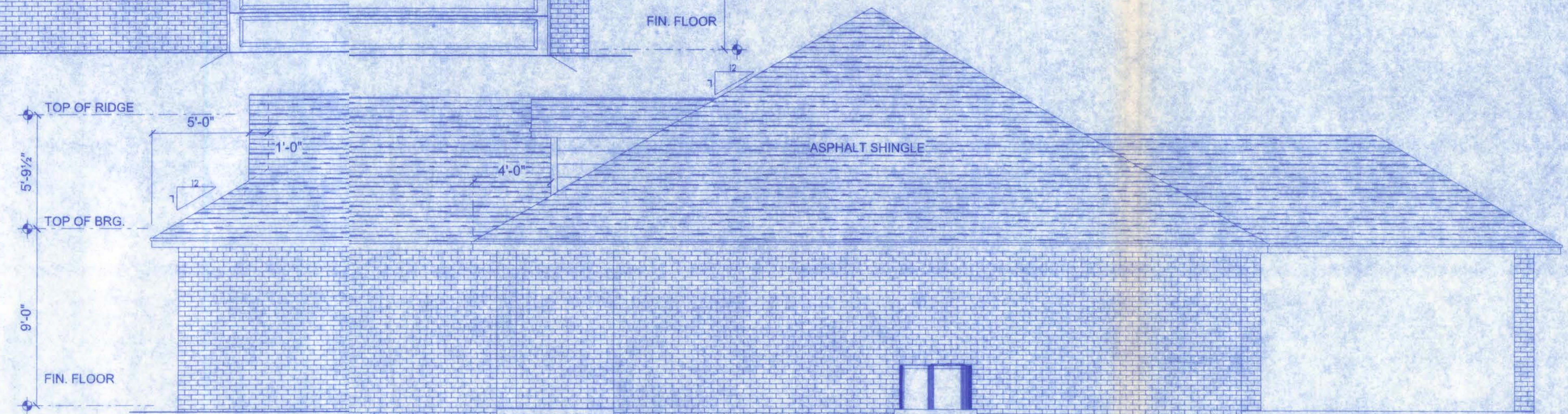
**NOTE:** VENTILATE THE ROOF TO 1/300TH THE INSULATED ATIC.  
(2,926 SF / 300 = 9.75 SF \* 144 SQ. IN./SF = 1,404 SQ. IN.)



**REAR ELEVATION**  
SCALE: 1/4" = 1'-0"



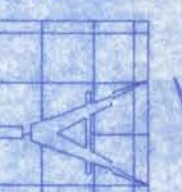
**LEFT ELEVATION**  
SCALE 1/4" = 1'-0"



**RIGHT ELEVATION**  
SCALE: 1/4" = 1'-0"

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DRAWN BY: W.H.F.

APPROVED: W.H.F.

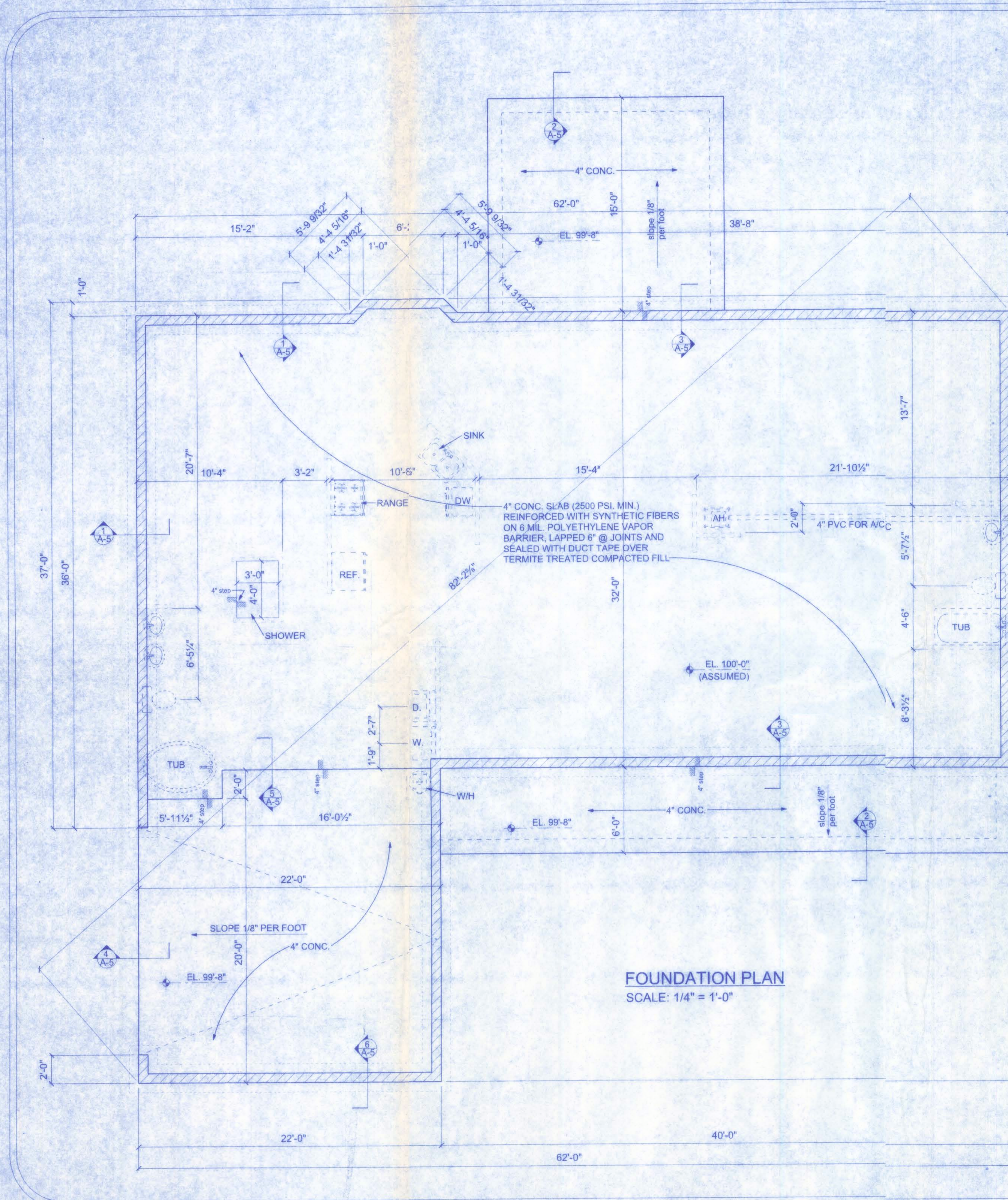
REVISIONS

SHEET: A-4

OF: 9

PROJECT NO.: 08.R40

CERTIFICATE OF AUTHORIZATION # 0008701

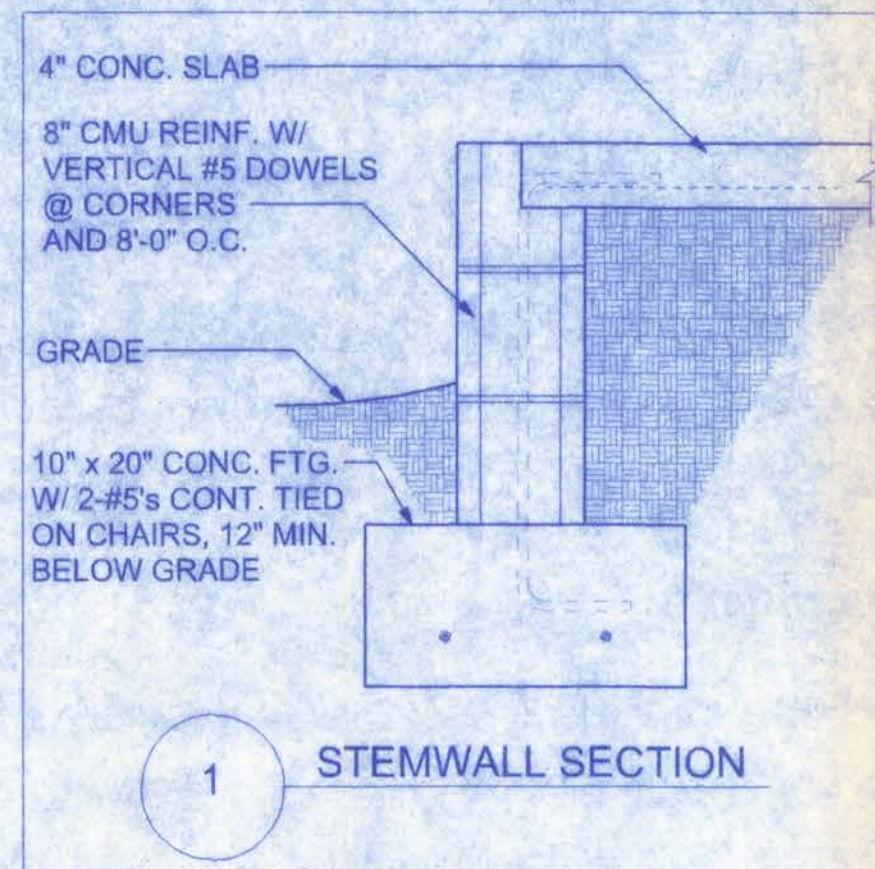


FOUNDATION PLAN  
SCALE: 1/4" = 1'-0"

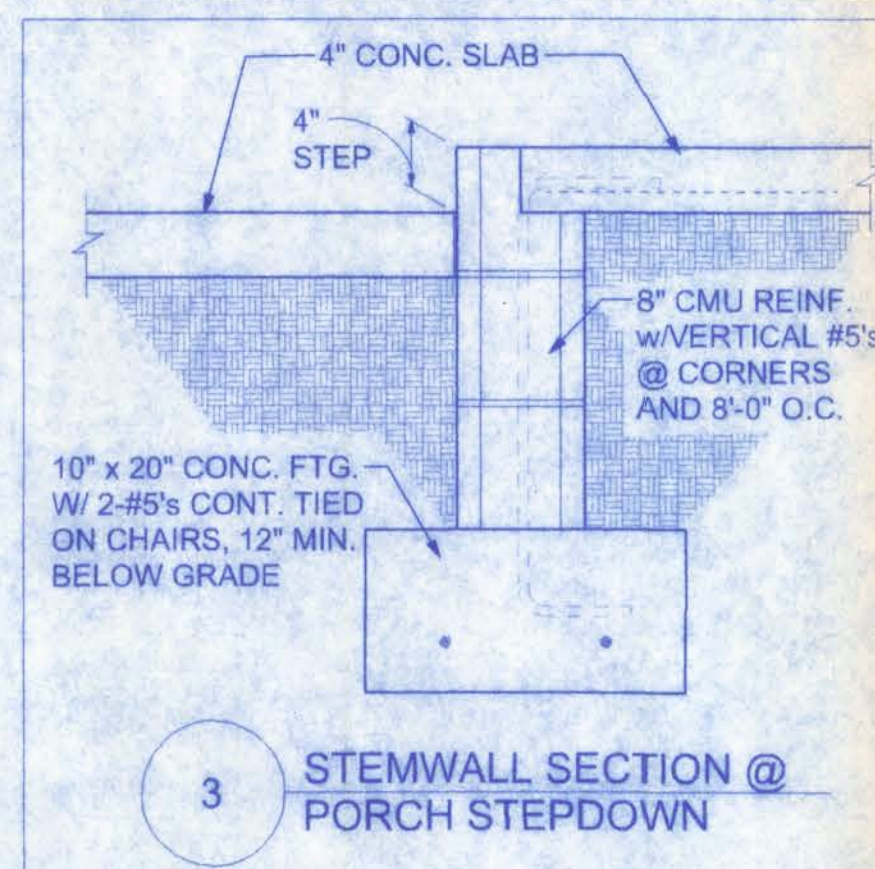
SLAB REQUIREMENTS

- JOINTS ARE NOT REQUIRED IN UNREINFORCED PLAIN CONCRETE SLABS ON GROUND OR IN SLABS FOR ONE AND TWO FAMILY DWELLINGS COMPLYING WITH ONE OF THE FOLLOWING:
1. CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTHS SHALL BE 1/2 INCH TO 2 INCHES IN LENGTH. DOSAGE AMOUNTS SHALL BE FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C 1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE. WHEN REQUESTED BY THE BUILDING OFFICIAL; OR,
  2. CONCRETE SLABS ON GROUND CONTAINING 6x6 W1.4 x W1.4 WELDED WIRE REINFORCEMENT FABRIC LOCATED IN THE MIDDLE TO THE UPPER 1/3 OF THE SLAB. WELDED WIRE REINFORCEMENT FABRIC SHALL BE SUPPORTED WITH APPROVED MATERIAL OR SUPPORTS AT SPACING NOT TO EXCEED 3 FT OR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION. WELDED PLAIN WIRE REINFORCEMENT FABRIC FOR CONCRETE SHALL CONFORM TO ASTM A 185, STANDARD SPECIFICATION FOR STEEL WELDED WIRE REINFORCEMENT FABRIC, PLAIN, FOR CONCRETE REINFORCEMENT.

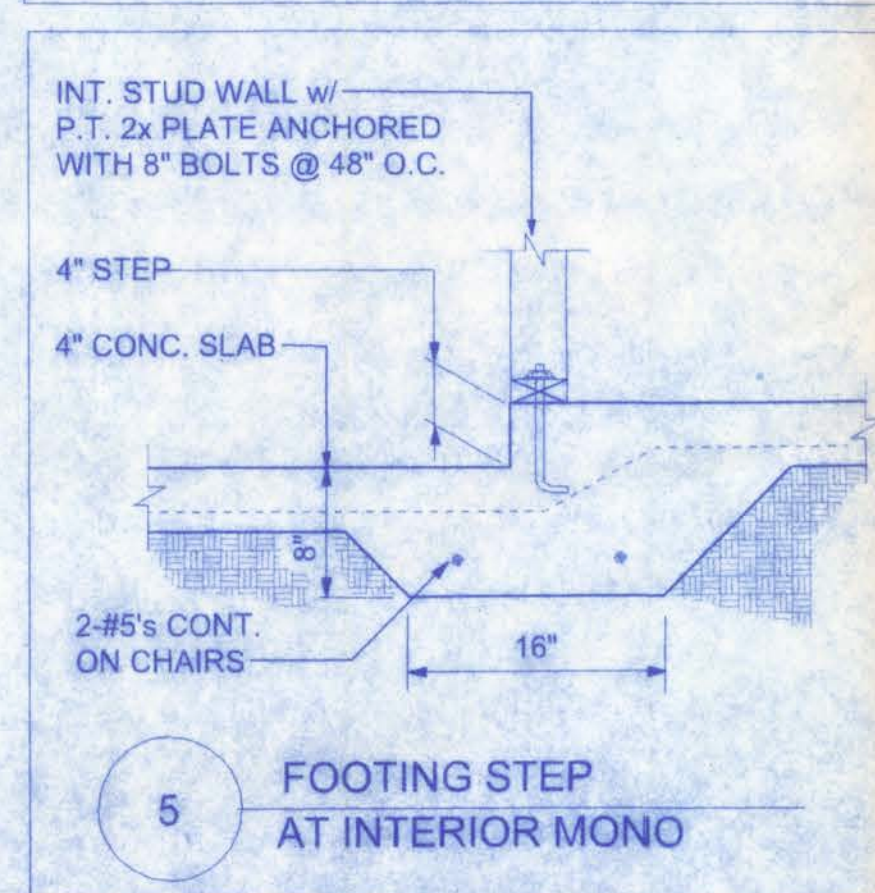
BEARING CAPACITY:  
THE FOOTING IS DESIGNED FOR SOIL WITH AN ALLOWABLE BEARING CAPACITY OF 1,000 PSF. THE FOOTINGS SHALL REST ON UNDISTURBED OR COMPACTED SOIL OF UNIFORM DENSITY AND THICKNESS. AT THE OWNER'S REQUEST, COMPACTED SOILS SHALL BE TESTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR AND COMPACTED IN LIFTS NOT TO EXCEED 12 INCHES.



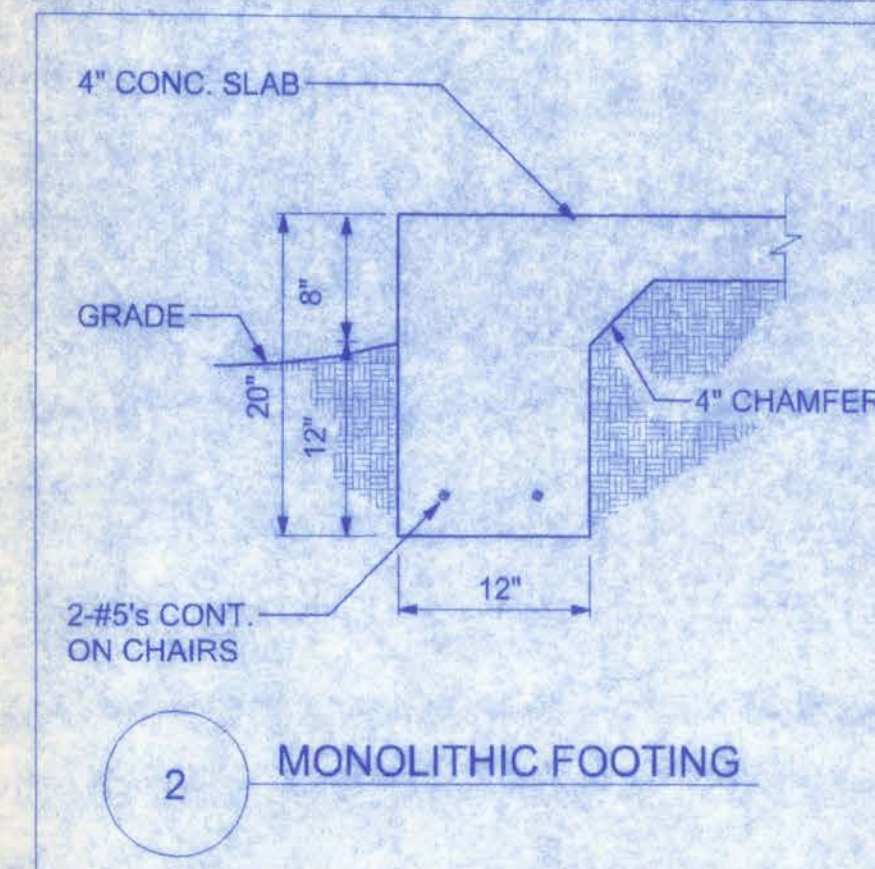
1 STEMWALL SECTION



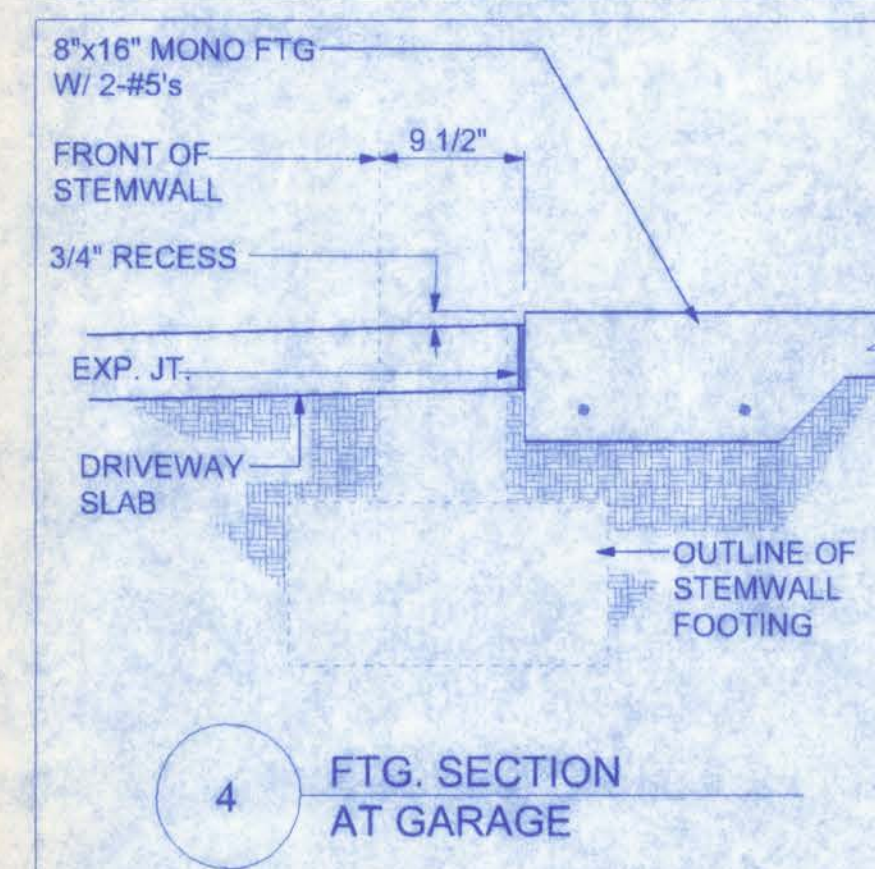
3 STEMWALL SECTION @ PORCH STEPDOWN



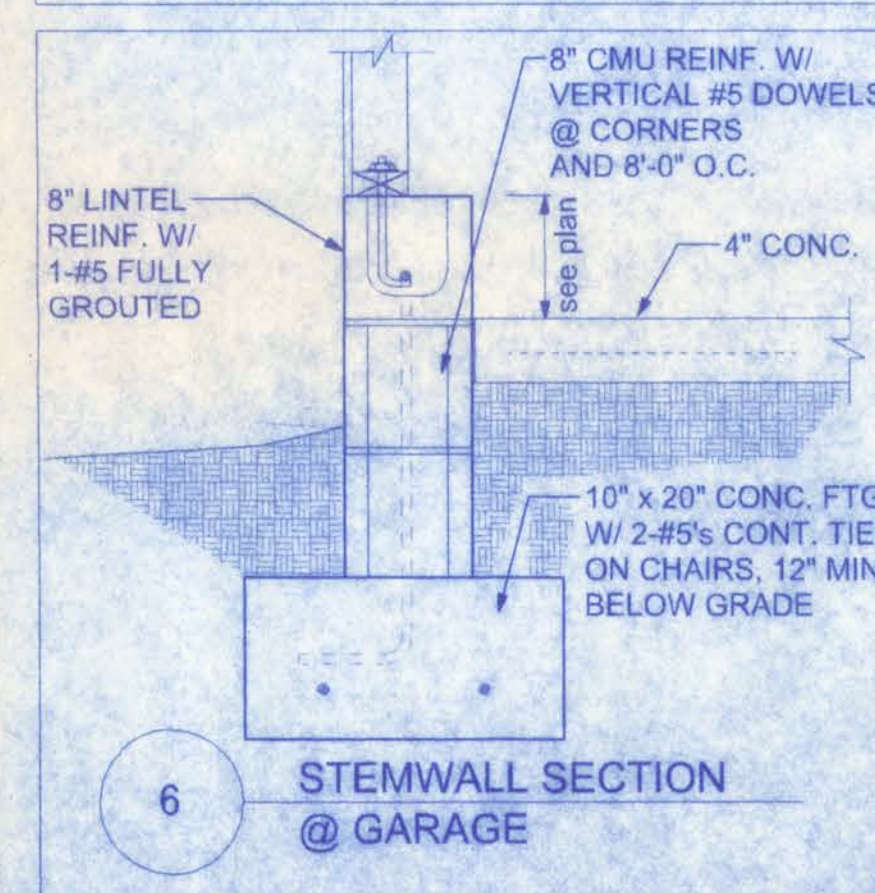
5 FOOTING STEP AT INTERIOR MONO



2 MONOLITHIC FOOTING



4 FTG. SECTION AT GARAGE



6 STEMWALL SECTION @ GARAGE

FOUNDATION NOTES:

- CONCRETE:  
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- GALVANIZATION:  
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.
- REINFORCING STEEL:  
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 60.
- REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:  
1. ALL REINFORCEMENT IS BENT COLD.  
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS AND  
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.
- EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.
- COVER OVER REINFORCING STEEL:  
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:  
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT OR 1/2 INCH FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER

10/26/09  
P.E. E-3001

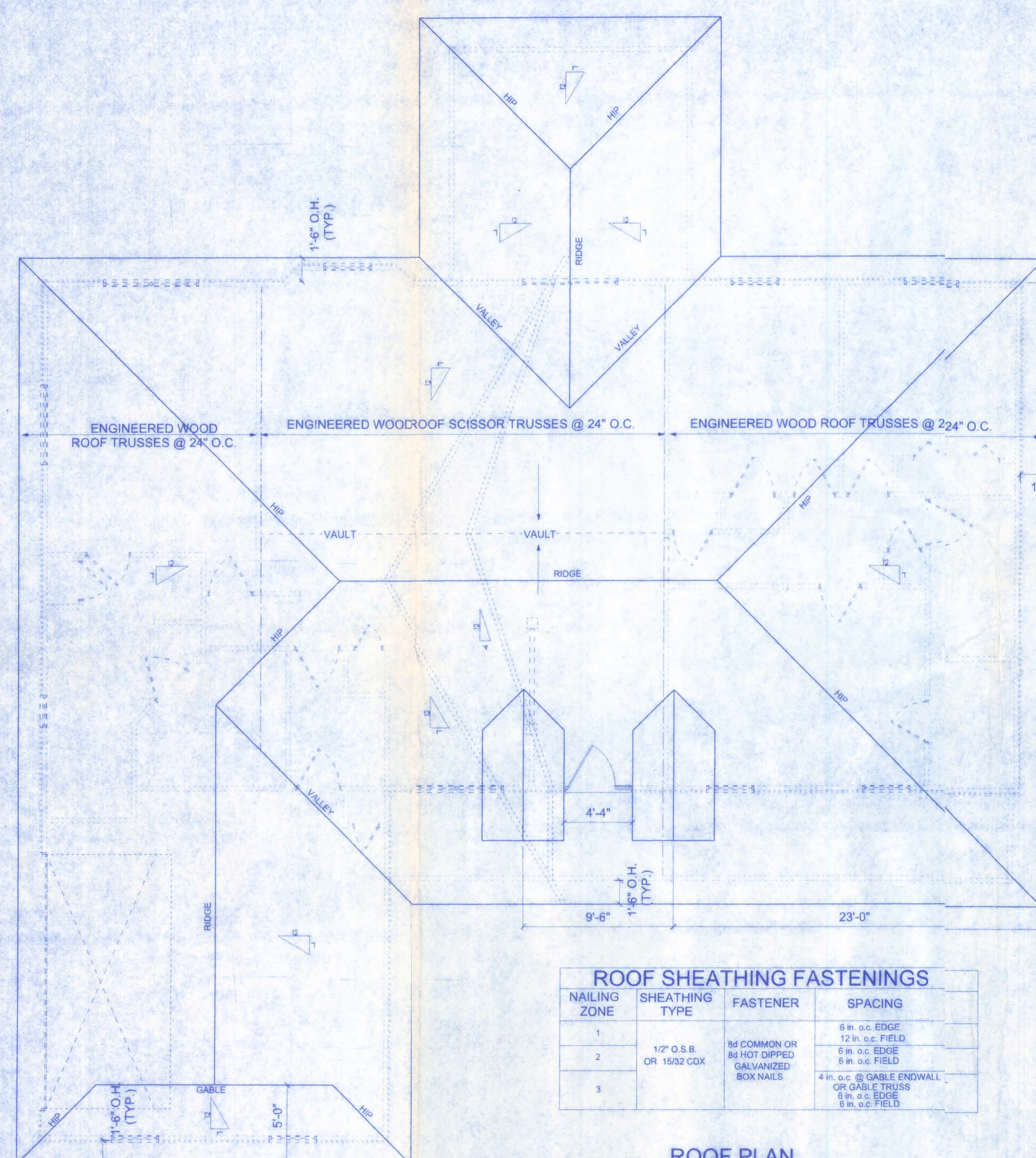
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CERTIFICATE OF AUTHORIZATION # 00008701

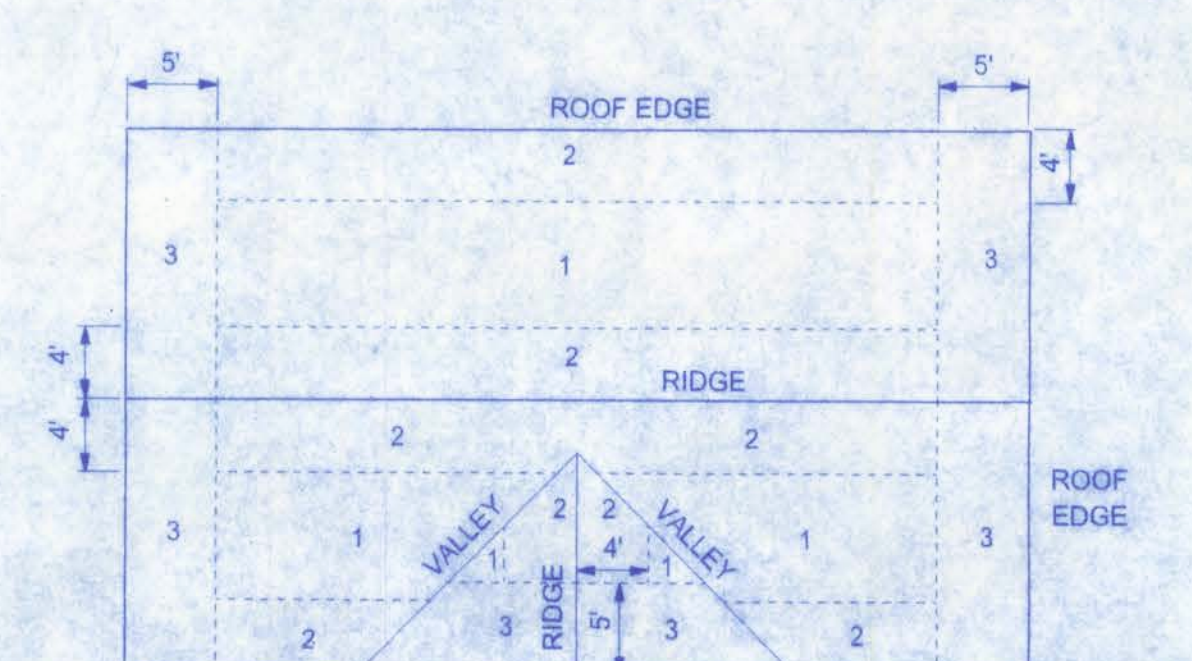
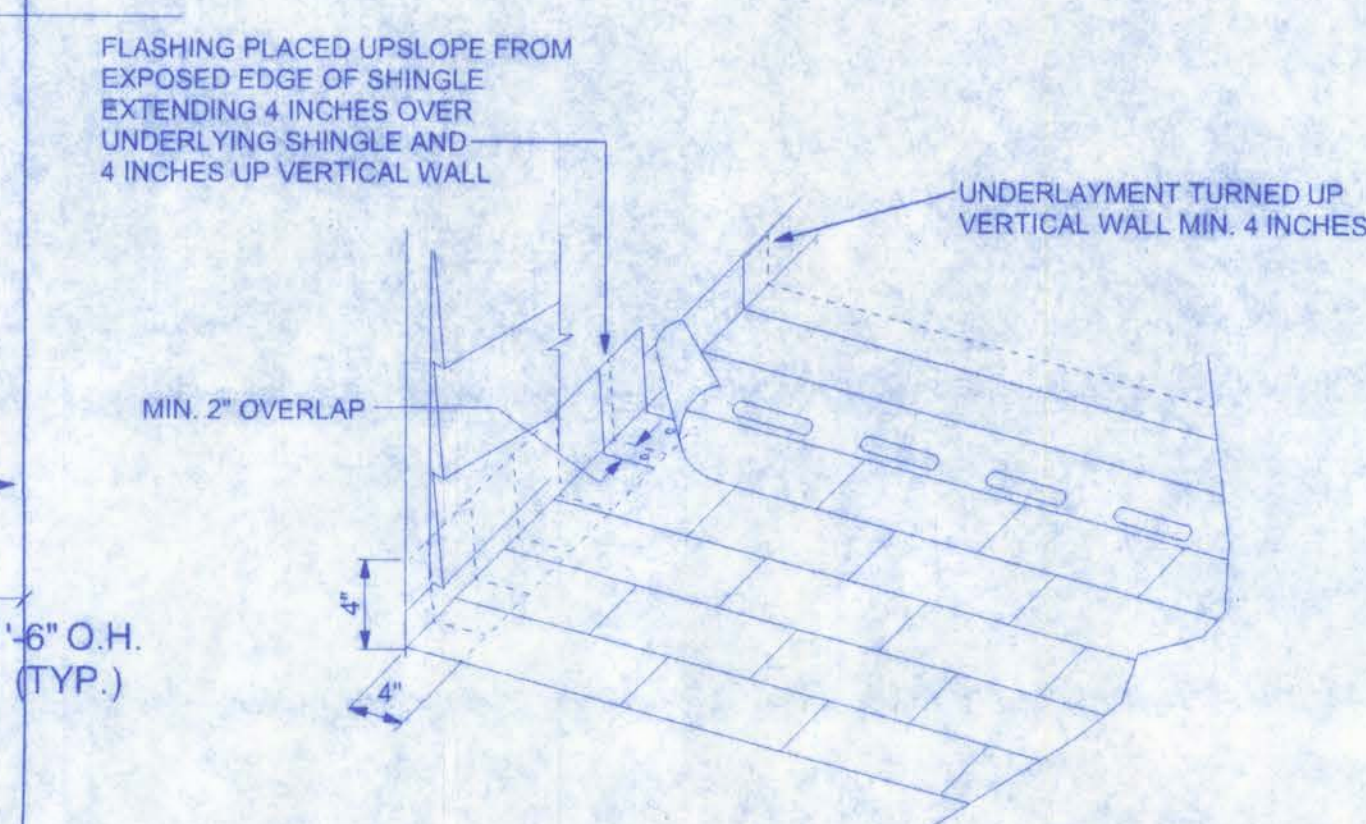
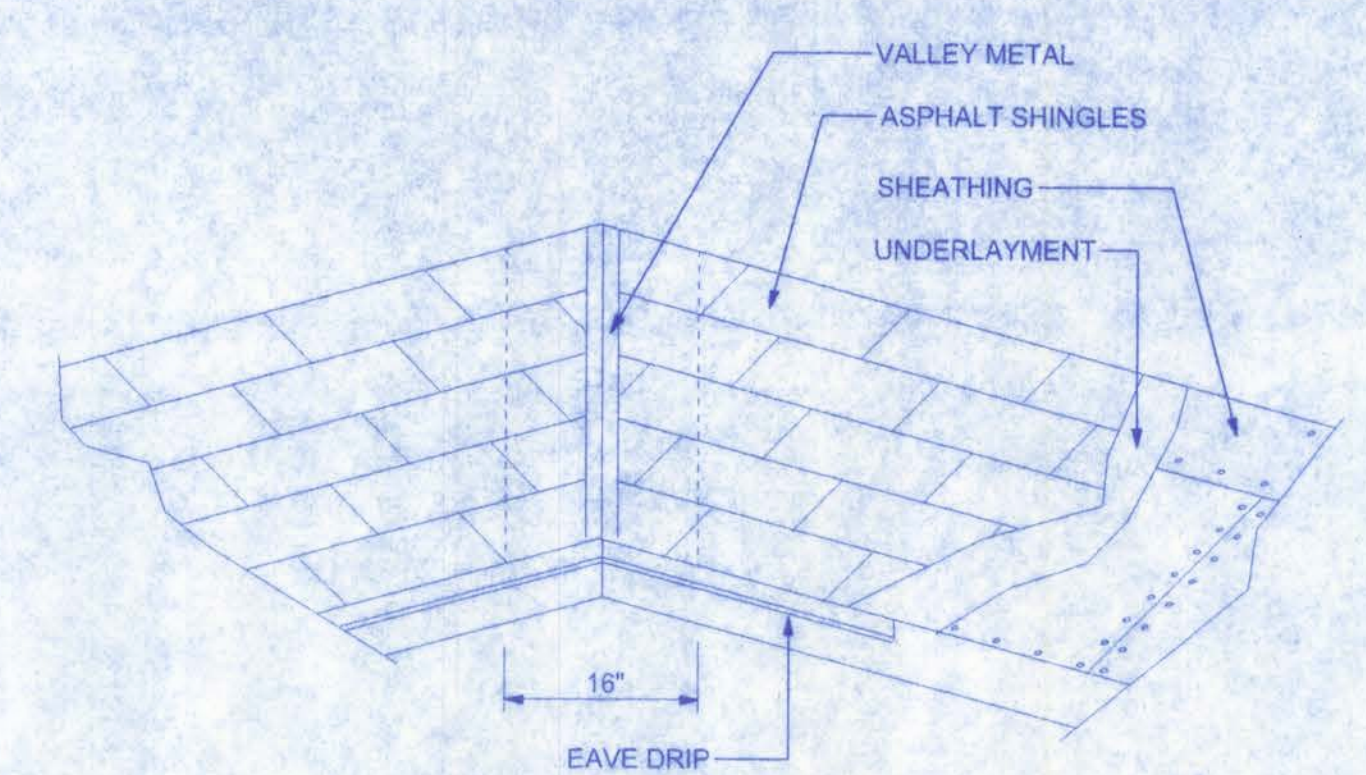
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Design Group, Inc.

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| DATE                   | 10/14/09 | DRAWN BY | W.J.F. |
|                        |          | APPROVED | W.J.F. |
| REVISIONS              |          |          |        |
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| OF                     | 9        |          |        |
| PROJECT NO.<br>09.R040 |          |          |        |

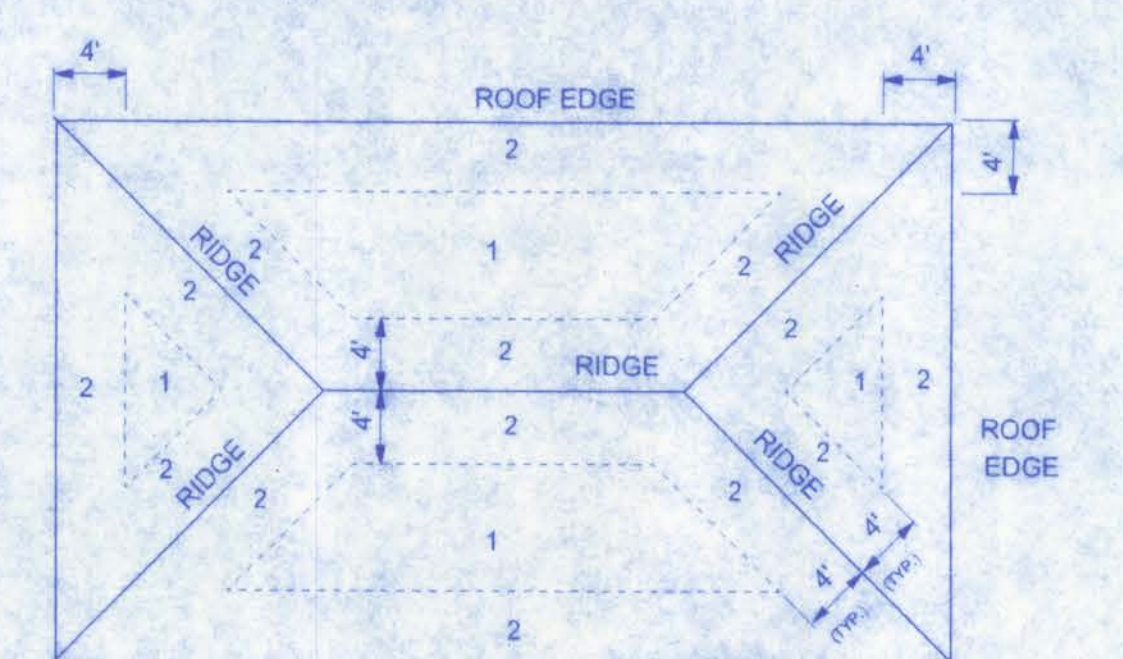


| ROOF SHEATHING FASTENINGS |                             |                                                          |                                              |
|---------------------------|-----------------------------|----------------------------------------------------------|----------------------------------------------|
| NAILING ZONE              | SHEATHING TYPE              | FASTENER                                                 | SPACING                                      |
| 1                         | 1/2" O.S.B.<br>OR 15/32 CDX | 8d COMMON OR<br>8d HOT DIPPED<br>GALVANIZED<br>BOX NAILS | 6 in. o.c. EDGE                              |
| 2                         |                             |                                                          | 12 in. o.c. FIELD                            |
| 3                         |                             |                                                          | 6 in. o.c. EDGE<br>6 in. o.c. FIELD          |
|                           |                             |                                                          | 4 in. o.c. @ GABLE ENDWALL<br>OR GABLE TRUSS |
|                           |                             |                                                          | 6 in. o.c. EDGE<br>6 in. o.c. FIELD          |

**ROOF PLAN**  
SCALE: 1/4" = 1'-0"



**ROOF SHEATHING NAILING ZONES (GABLE ROOF)**



**ROOF SHEATHING NAILING ZONES (HIP ROOF)**

## SHINGLE DETAILS

DECK REQUIREMENTS:  
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:  
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DOUBLE UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:  
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM WITH ASTM D 226, TYPE 1, OR ASTM D 4869, TYPE 1.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:  
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY WITH ASTM D 1970.

ASPHALT SHINGLES:  
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:  
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE ROOF SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:  
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95.

UNDERLAYMENT APPLICATION:  
FOR ROOF SLOPES FROM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:  
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:  
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:  
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 7.7 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

VALLEYS:  
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:  
1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16 INCHES WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN TABLE 1507.3.9.2.  
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLYS OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 16 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.  
3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:  
1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.  
2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.  
3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

| MATERIAL                      | MINIMUM THICKNESS (in) | GAGE                 | WEIGHT (LB) |
|-------------------------------|------------------------|----------------------|-------------|
| COPPER                        |                        |                      | 1           |
| ALUMINUM                      | 0.024                  |                      |             |
| STAINLESS STEEL               |                        | 28                   |             |
| GALVANIZED STEEL              | 0.0179                 | 26 (ZINC COATED G90) |             |
| ZINC ALLOY LEAD PAINTED TERNE | 0.027                  |                      | 2 1/2 20    |

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CERTIFICATE OF AUTHORIZATION # 0008701

Freeman

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DATE

10/14/09

DRAWN BY

W.H.F.

APPROVED

W.H.F.

REVISIONS

SHEET

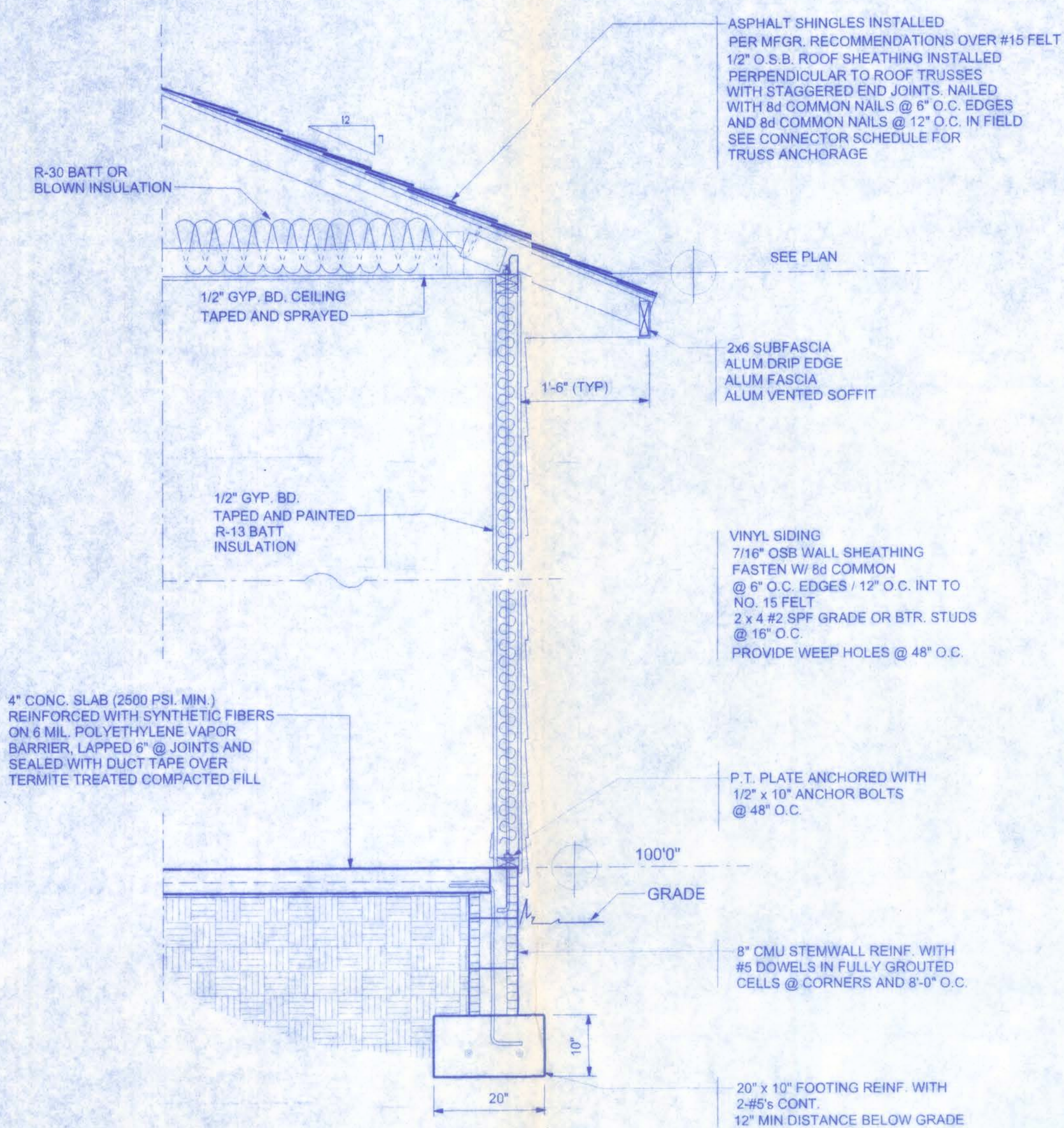
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OF

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PROJECT NO.

09.R04

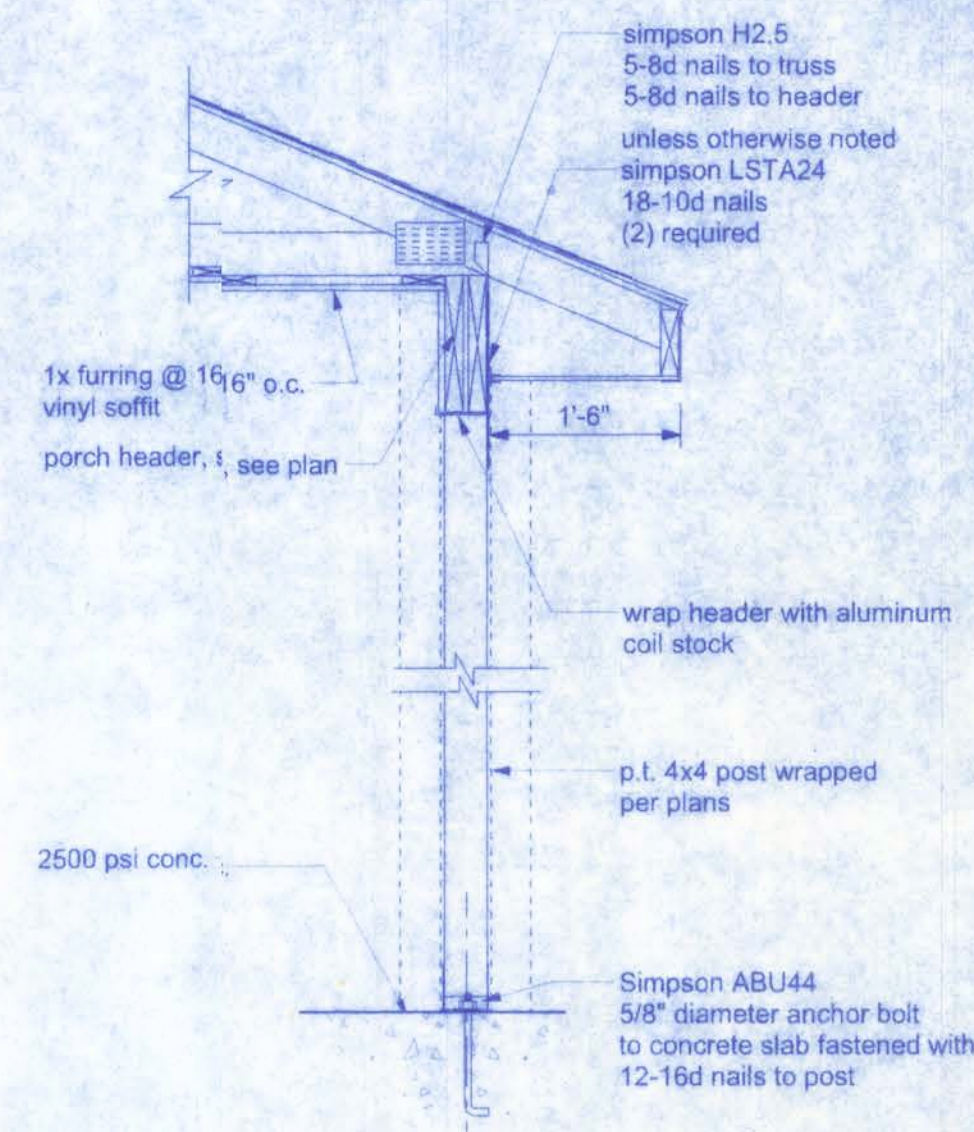


**TYPICAL WALL SECTION**  
SCALE: 3/4" = 1'-0"

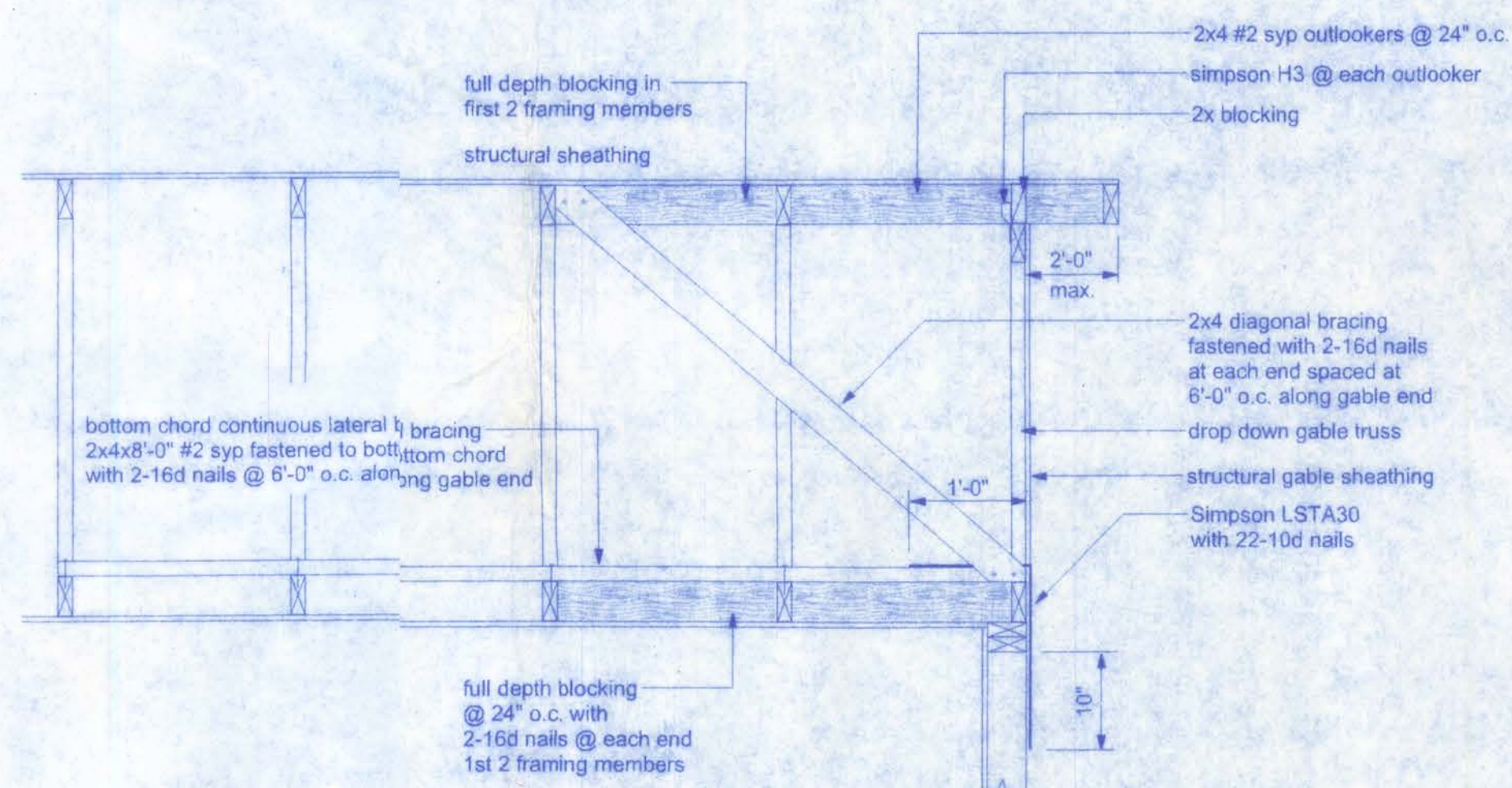
| CONNECTOR SCHEDULE FOR TRUS ANCHORAGE |              |              |                     |              |
|---------------------------------------|--------------|--------------|---------------------|--------------|
| CONNECTOR                             | TRUSS        | TOP PLATE    | UPLIFT PROVIDED     | MANUFACTURER |
| H2.5                                  | 5-8d NAILS   | 5-8d NAILS   | 36 LBS              | SIMPSON      |
| H10                                   | 8-8d NAILS   | 8-8d NAILS   | 85 LBS              | SIMPSON      |
| MTS12                                 | 7-10d NAILS  | 7-10d NAILS  | 1.0 LBS             | SIMPSON      |
| H16                                   | 2-10d NAILS  | 10-10d NAILS | 1.0 LBS             | SIMPSON      |
| (2) HTS20                             | 10-10d NAILS | 10-10d NAILS | 2 x 1,450 2,900 LBS | SIMPSON      |

### VENTILATION REQUIREMENTS

| Total Attic Square Footage | Recommended Length of Cobra Rigid Vent II (Feet) | Minimum Intake Ventilation (Net Free Area in Sq. In.) |
|----------------------------|--------------------------------------------------|-------------------------------------------------------|
| 1600                       | 21                                               | 384                                                   |
| 1900                       | 25                                               | 456                                                   |
| 2200                       | 29                                               | 528                                                   |
| 2500                       | 33                                               | 600                                                   |
| 2800                       | 41                                               | 744                                                   |
| 3100                       | 41                                               | 820                                                   |
| 3400                       | 45                                               | 816                                                   |

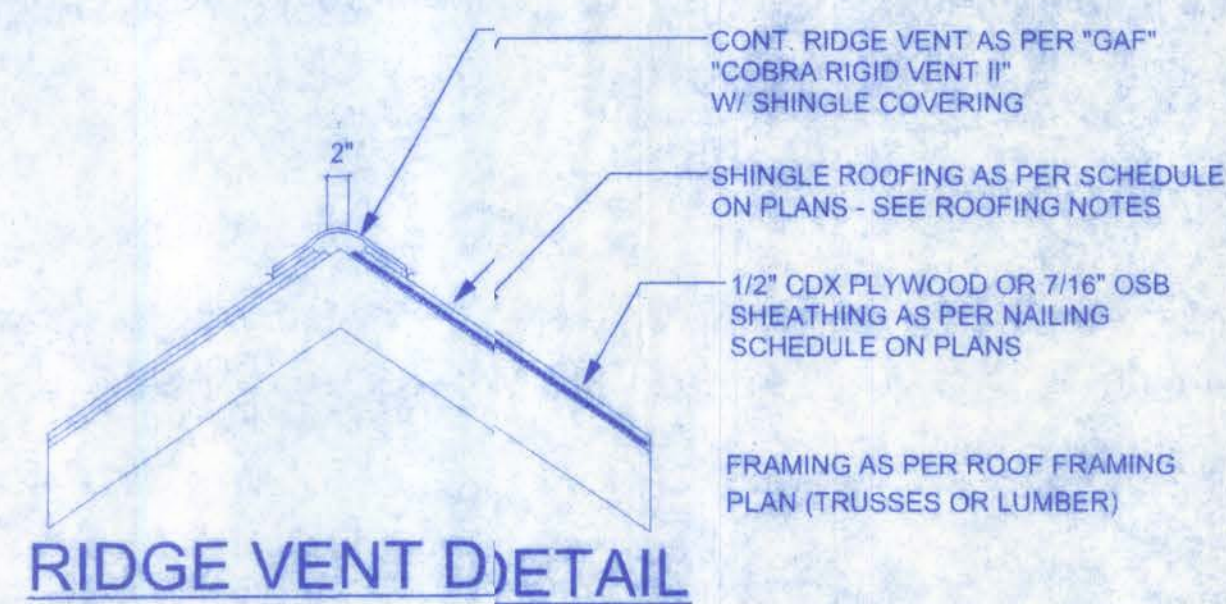


**PORCH SECTION**  
SCALE: 3/4" = 1'-0"

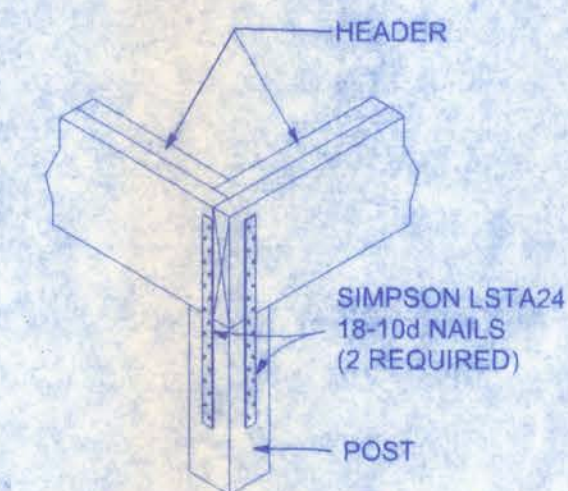


**END WALL BRACING FOR CEILING DIAPHRAGM**  
NTS

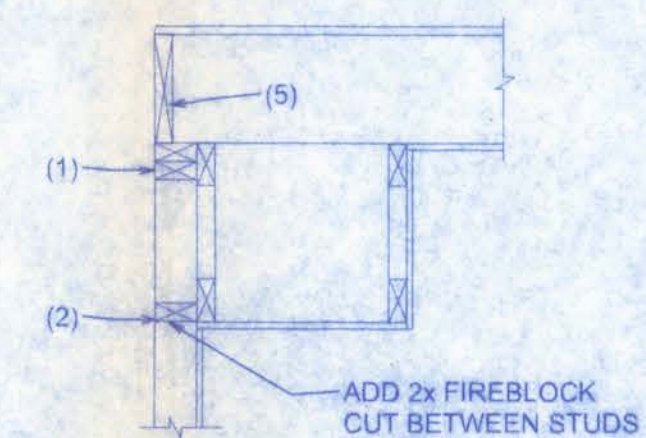
NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE



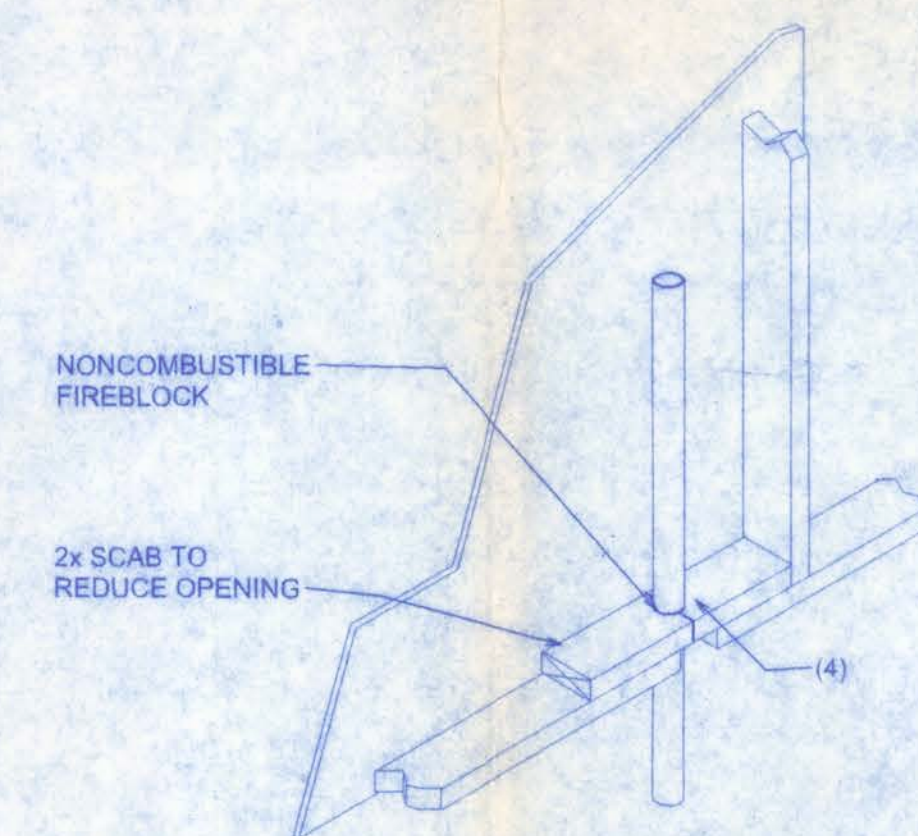
**RIDGE VENT DETAIL**



**CORNER POST/HEADER DETAIL**  
NTS



**SOFFIT/DROPPED CLG.**



**PENETRATIONS**

### FIREBLOCKING NOTES:

FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

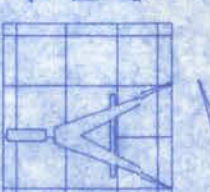
- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
- AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
- IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
- AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH PYROPANEL MULTIFLEX SEALANT
- AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

Walt H. Lee  
10/14/09  
P.E. # 58697

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DATE: 10/14/09  
DRAWN BY: W.H.F.  
APPROVED: W.H.F.

REVISIONS

SHEET: A-7

OF: 3

PROJECT NO.: 09-R40

W.H.F. 10/14/09  
P.E. # 55001

LEMMIE AND MARY CAMPBELL

128 SW NASSAU STREET  
LAKE CITY, FL 32025  
(888) 769 4200



CERTIFICATE OF AUTHORIZATION # 00080701

|             |          |
|-------------|----------|
| DATE        | DRAWN BY |
| 10/14/09    | W.H.F.   |
|             | APPROVED |
|             | W.H.F.   |
| REVISIONS   |          |
| SHEET       | A-8      |
| OF          | 9        |
| PROJECT NO. |          |
| 09.F040     |          |

| ELECTRICAL           | COUNT | SYMBOL |
|----------------------|-------|--------|
| ceiling fan globe 1  | 4     |        |
| chandelier           | 1     |        |
| fluorescent fixture  | 2     |        |
| pot light            | 7     |        |
| wall mount 1         | 2     |        |
| electric motor       | 1     |        |
| electrical panel     | 1     |        |
| meter can            | 1     |        |
| non-fused disconnect | 1     |        |
| 50 cfm exhaust fan   | 1     |        |
| cable tv outlet      | 2     |        |
| fan                  | 1     |        |
| light                | 10    |        |
| outlet               | 36    |        |
| outlet 220v          | 3     |        |
| outlet gfi           | 15    |        |
| smoke detector       | 5     |        |
| switch               | 19    |        |
| switch 3 way         | 10    |        |
| telephone            | 2     |        |
| weather proof gfi    | 3     |        |

ELECTRICAL PLAN NOTES

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

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.

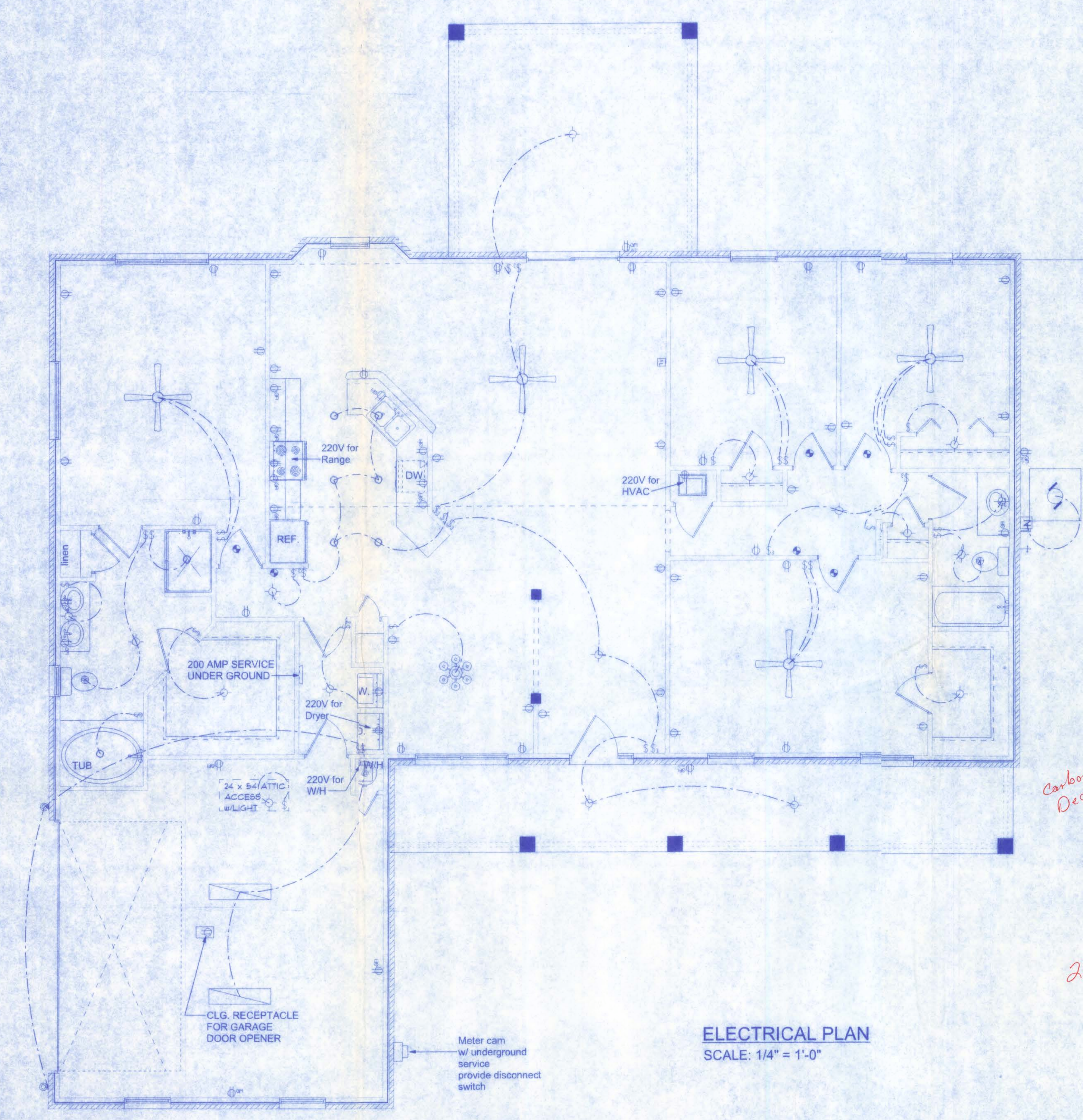
ELECTRICAL CONTR SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR. SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.

CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

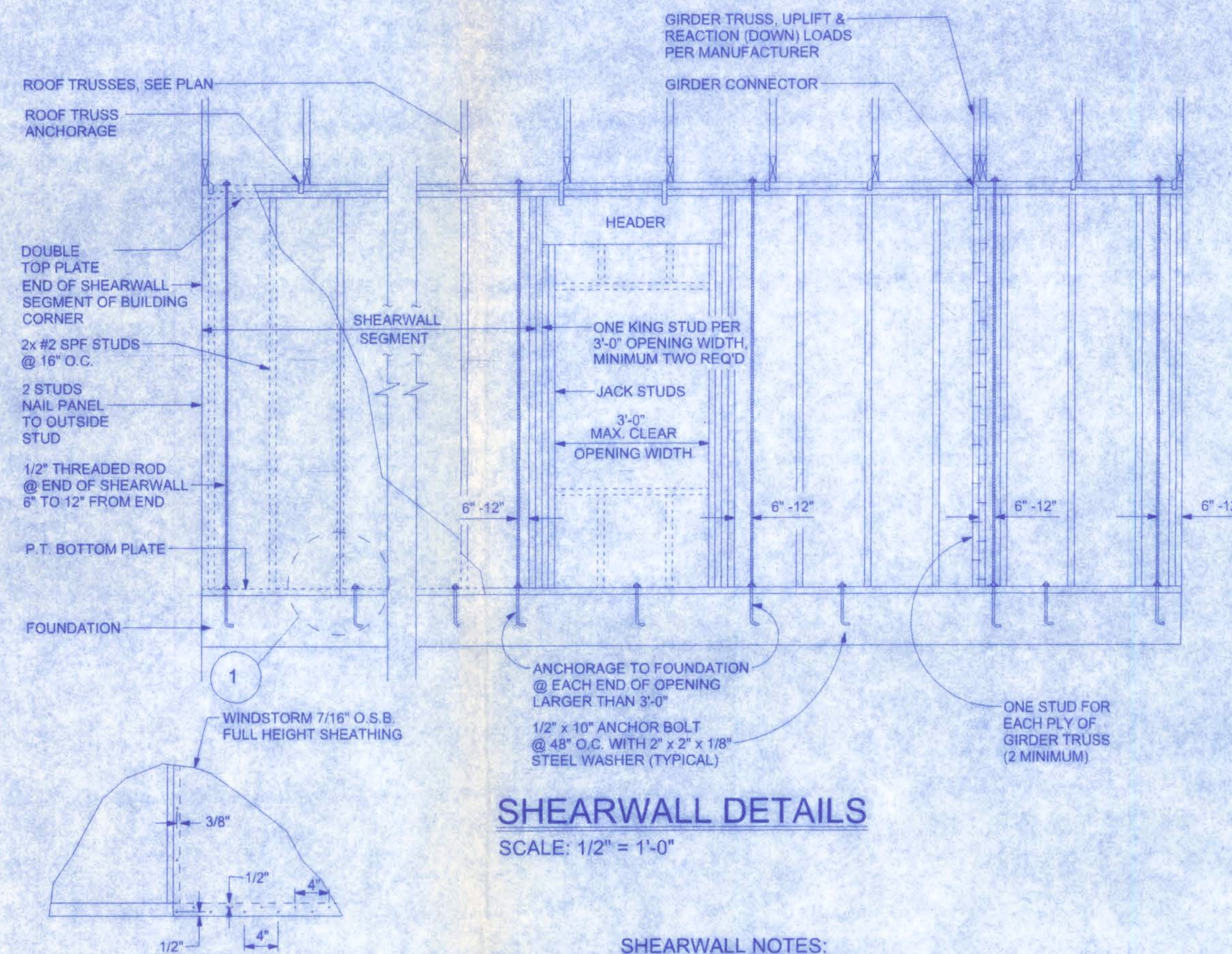
**NOTE:**  
all 120 volt, single phase, 15 and 20 ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunroom, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed arc-fault circuit interrupter, combination type, installed to provide protection of the branch circuits.

Carbon  
Dioxide

2008 NEC.  
AFCI  
child proof rec.



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



## SHEARWALL DETAILS

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

### 1 DOUBLE NAIL EDGE SPACING TOP AND BOTTOM PLATE

UPLIFT CAPACITY = 474 plf  
(TABLE 305S1 SST10-99)

#### RULES:

1. One all-thread rod at each corner.
2. One all-thread rod at each end of shearwalls.
3. One all-thread rod at each end of opening headers greater than 3'-0".
4. Check sub-sheathing to top plate connection for horizontal transfer ability.
5. If necessary, add all-thread rods to girders individually to exclude them from average uplift plf.
6. Check sole plate to slab connection, additional anchors may be required for lateral and shear load transfer.

| ALLOWABLE VALUES                                |                 |
|-------------------------------------------------|-----------------|
| Connection Type                                 | Allowable Value |
| Foundation / S.Y.P. Top Plate                   | 3840 lbs.       |
| Foundation / Spruce-Pine-Fir Top Plate          | 3840 lbs.       |
| Lintel or Bond Beam / S.Y.P. Top Plate          | 3840 lbs.       |
| Lintel or Bond Beam / Spruce-Pine-Fir Top Plate | 3840 lbs.       |

#### Placement at slab level:

##### Corners

When presetting the all-thread rod at a building corner, the rod should be placed 8 to 12 inches away from the corner so it does not fall under the corner framing members. When a all-thread rod is specified at a building corner, it may be placed on either side of the corner.

##### Header ends

When presetting the all-thread rod at a header end, the rod should be placed 8 to 12 inches away from the header end so it does not fall under the stud pack framing members.

##### Top Connections

Top connections made at corners and header ends shall be made with 2 inches of the framing pack. A nut and 3X3 washer shall be applied to the top plates and tightened securely.

##### Intermediate Coupler Connections

When using the rod coupler, care should be taken to ensure full and equal thread engagement. This is easily achieved by threading the coupler all the way onto the rod, then standing the two rods end to end then threading the coupler back over the rod joint so each rod is halfway into the coupler.

##### Retro-fits

In the case of an all thread rod misplacement, the rod may be epoxied into the concrete.

##### Sole plate to slab connection:

The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will qualify as sole plate connection but may require other anchors intermediate of the allthread rod locations to qualify the specified spacing requirements.

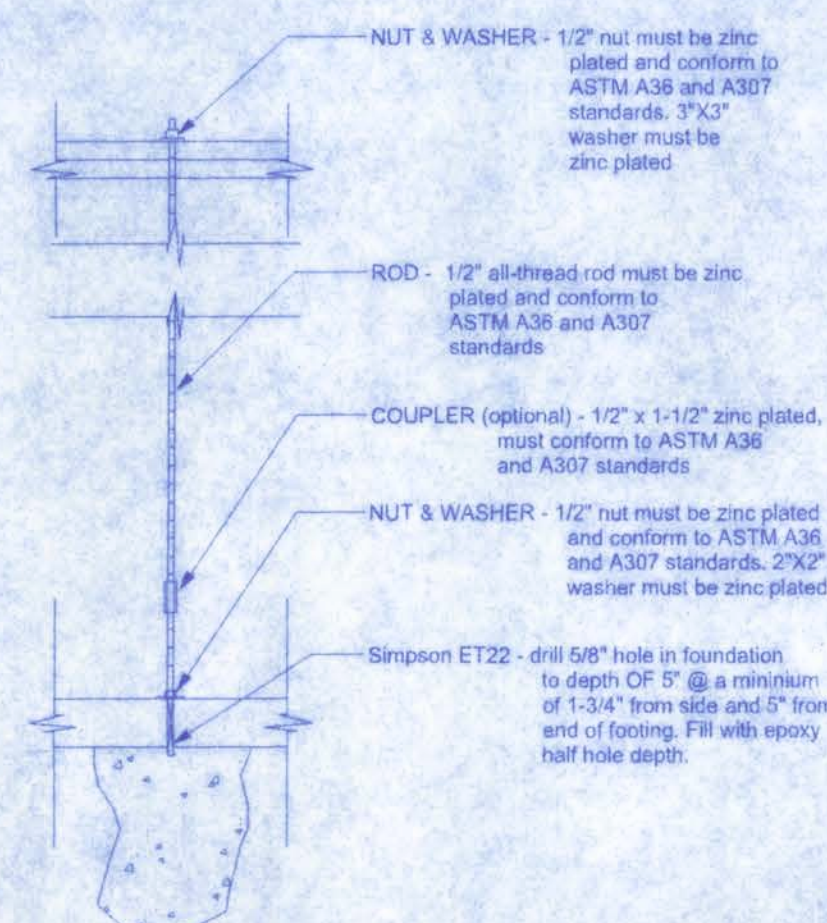
##### System Tightening:

On multiple story applications, the all-thread rod system shall be checked for proper tension just before the walls are veneered. This will allow the all-thread rod system to compensate for the buildings dead load compression.

#### SHEARWALL NOTES:

1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-99 305.4.3.
2. THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURRING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
4. NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.
5. TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 IS FOR 8'-0" WALLS - (2'-3").

| OPENING WIDTH  | SILL PLATES        | 16d TOE NAILS EACH END |
|----------------|--------------------|------------------------|
| UP TO 6'-0"    | (1) 2x4 OR (1) 2x6 | 1                      |
| > 6' TO 9'-0"  | (3) 2x4 OR (1) 2x6 | 2                      |
| > 9' TO 12'-0" | (5) 2x4 OR (2) 2x6 | 3                      |

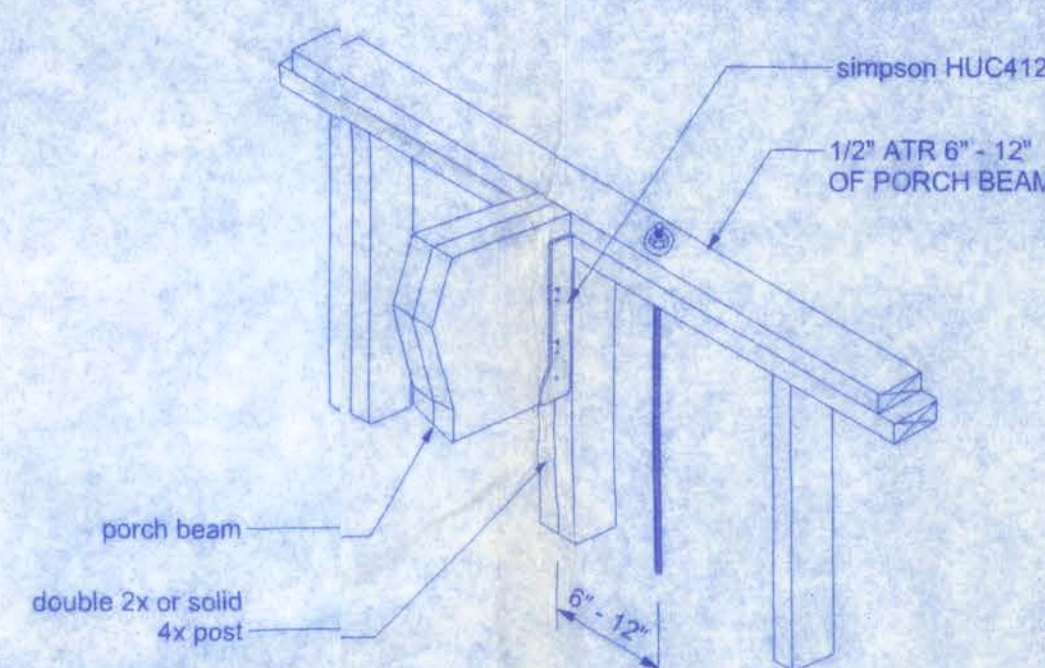


## GIRDER COLUMN DETAIL

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

#### ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

| STRUCTURAL MEMBER                                                                    | ALLOWABLE DEFLECTION |
|--------------------------------------------------------------------------------------|----------------------|
| rafters having slopes greater than 2/12 with no finished ceiling attached to rafters | L/180                |
| interior walls and partitions                                                        | H/180                |
| floors and plastered ceilings                                                        | L/360                |
| all other structural members                                                         | L/240                |
| exterior walls with plaster or stucco finish                                         | H/360                |
| exterior walls - wind loads with brittle finishes                                    | L/240                |
| exterior walls - wind loads with flexible finishes                                   | L/120                |



## ALL THREAD @ PORCH BEAM

NTS

#### NOTE:

A SOLID MEMBER OF EQUAL OR GREATER SIZE THAN MULTIPLE MEMBERS MAY BE USED. IF RATED SHEATHING IS APPLIED TO NARROW EDGES, NAILED TO EACH STUD AT 12" O.C. MAXIMUM, THE LAMINATION NAILING SHOWN HERE IS NOT REQUIRED.



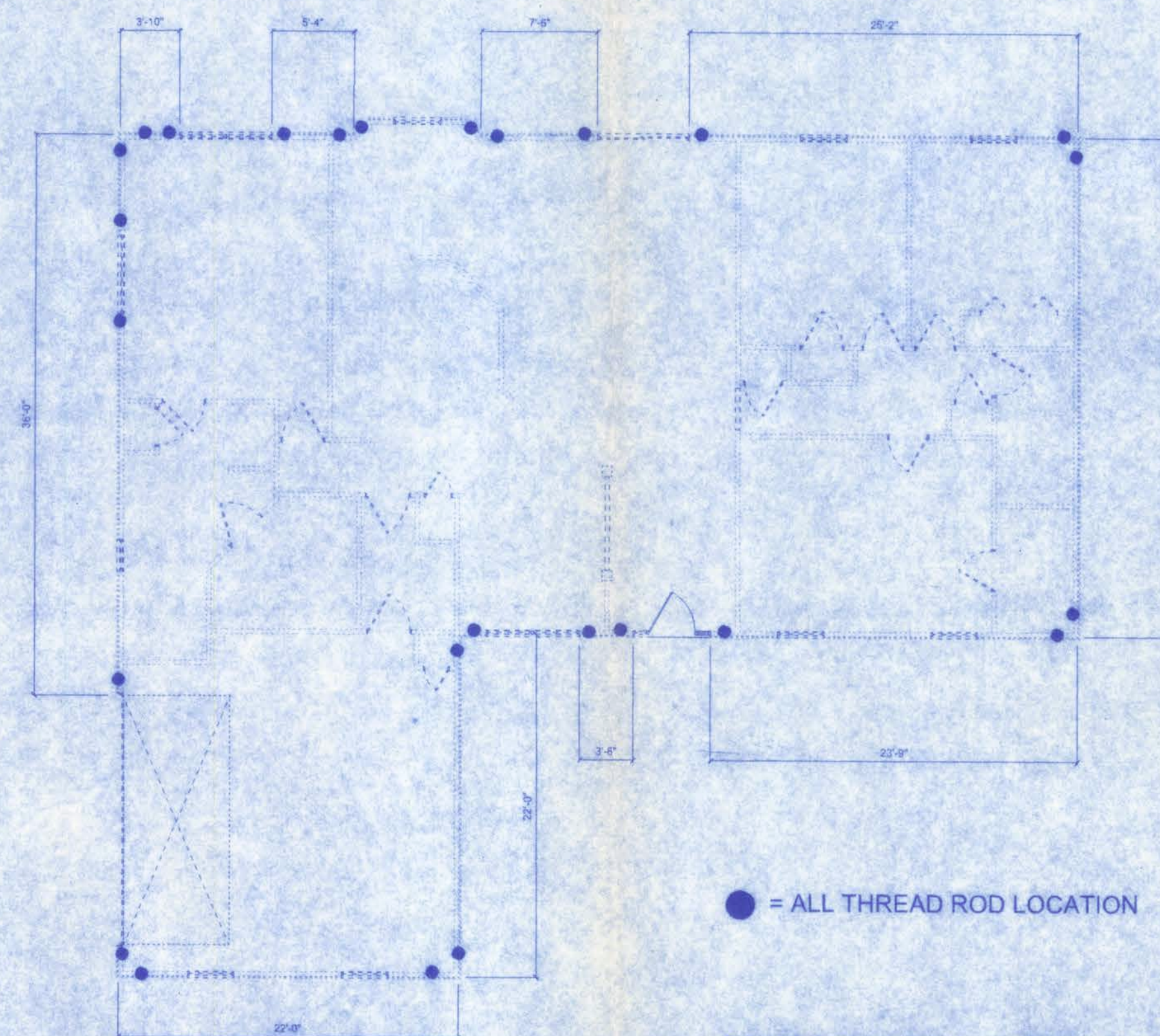
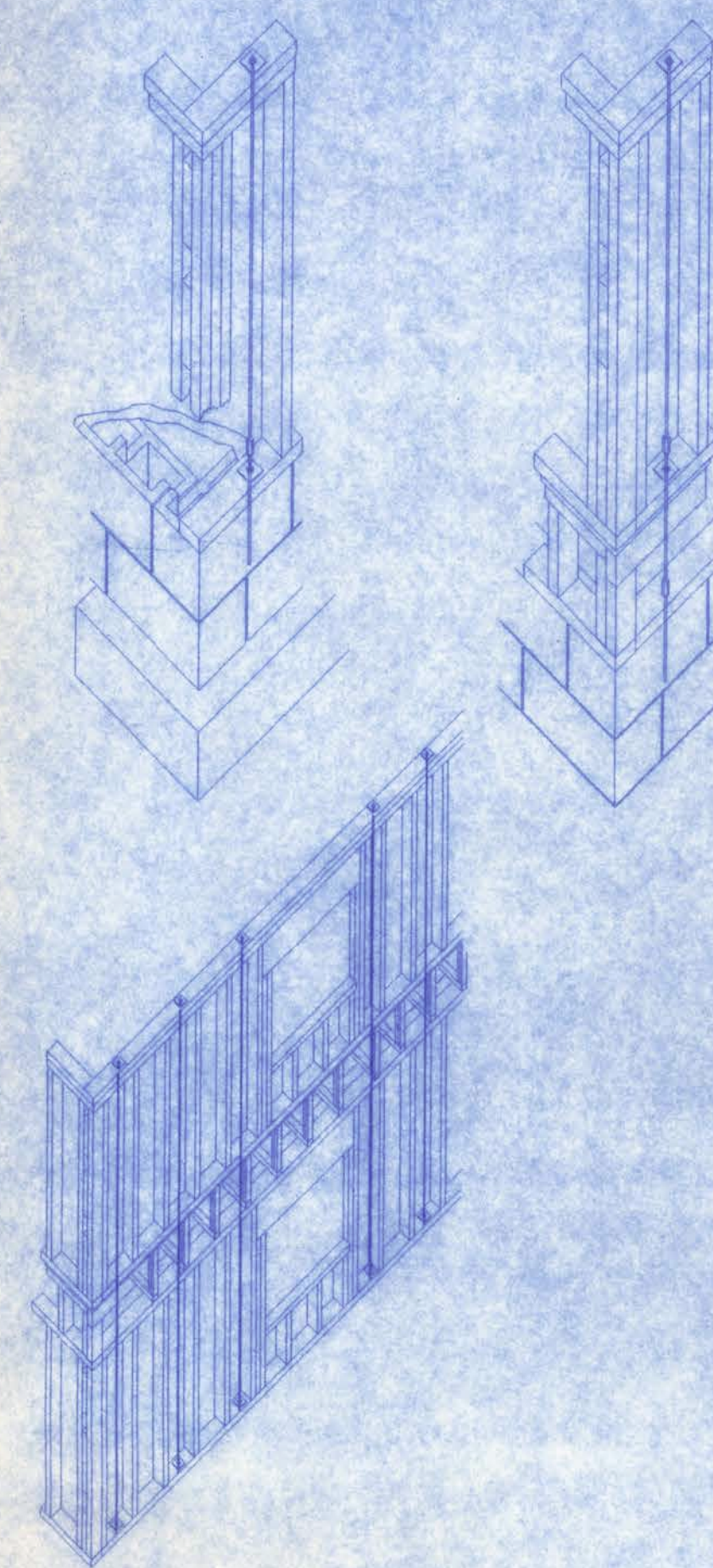
END (TOP OR BOTTOM)

| OPENING CONNECTION REQUIREMENTS |                                 |             |                                  |                                               |
|---------------------------------|---------------------------------|-------------|----------------------------------|-----------------------------------------------|
| CLEAR OPENING WIDTH             | HEADER SIZE #2 GRADE OR BETTER  | END BEARING | CONNECTOR AT EACH END OF OPENING | ANCHORAGE TO FOUNDATION @ EACH END OF OPENING |
| 0' - 3'                         | (2) 2x8                         | 1.5"        | N/A                              | N/A                                           |
| >3' - 6'                        | (2) 2x10                        | 3"          | 1/2" ALL THREAD ROD              | 1/2" ALL THREAD ROD                           |
| >6' - 9'                        | (2) 2x12                        | 3"          | 1/2" ALL THREAD ROD              | 1/2" ALL THREAD ROD                           |
| >9' - 12'                       | (2) 1 3/4" x 11 1/4" LVL - 2.0E | 3"          | 1/2" ALL THREAD ROD              | 1/2" ALL THREAD ROD                           |
| >12' - 15'                      | (2) 1 3/4" x 11 1/4" LVL - 2.0E | 3"          | 1/2" ALL THREAD ROD              | 1/2" ALL THREAD ROD                           |
| >15' - 18'                      | (2) 1 3/4" x 11 1/4" LVL - 2.0E | 4.5"        | 1/2" ALL THREAD ROD              | 1/2" ALL THREAD ROD                           |

#### NOTE:

ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION W/ 2006 REVISIONS.

|                                 |                                                                      |
|---------------------------------|----------------------------------------------------------------------|
| BASIC WIND SPEED                | 110 MPH                                                              |
| IMPORTANCE FACTOR               | 1.0                                                                  |
| BUILDING CATEGORY               | 2                                                                    |
| EXPOSURE                        | B                                                                    |
| INTERNAL PRESSURE COEFFICIENT   | +/- 0.18                                                             |
| COMPONENT AND CLADDING PRESSURE | WALLS +21.8/-29.1 PSF<br>ROOF +12.5/-29.1 PSF<br>OVERHANGS -71.6 PSF |
| TYPE OF STRUCTURE               | ENCLOSED                                                             |
| ROOF DEAD LOAD                  | 10 PSF                                                               |
| ROOF LIVE LOAD                  | 20 PSF                                                               |
| FLOOR DEAD LOAD                 | 20 PSF                                                               |
| FLOOR LIVE LOAD                 | 40 PSF                                                               |



## SHEARWALL DETAIL

SCALE: 1/8" = 1'-0"

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Freeman  
Design Group Inc.

CERTIFICATE OF AUTHORIZATION # 00000701

DRAWN BY W.H.F.

DATE 10/14/09

APPROVED W.H.F.

REVISIONS

SHEET A-9

OF 9

PROJECT NO. 099040