

1. 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)
2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALKS.(FBC 1503.4.4)
3. 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)
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 CEMENTATION FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL.(FBC 1403.1.6)
5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE.(FBC 1816.1.1)
6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED AND FORMED.(FBC 1816.1.2)
7. 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 SOIL AFTER THE INITIAL TREATMENT.(FBC 1816.1.3)
8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAIL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED.(FBC 1816.1.4)
9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT.(FBC 1816.1.5)
10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS.(FBC 1816.1.6)
11. 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)
12. ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT.(FBC 1.7.1)
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 FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES"(FBC 1816.1.6)
14. 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)
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC. SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING.(FBC 2303.1.4)

## WOOD CONSTRUCTION

1. WOOD CONSTRUCTION SHALL COMPLY WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION," LATEST EDITION.
2. ALL EXTERIOR WOOD STUD WALLS SHALL BE 2" MIN. THICK WALLS AND MISC. STRUCTURAL WALLS SHALL BE 4" MIN. THICK (I.E. BLOCKING OR GABLE END BRACING). ALL EXTERIOR SOUTHERN PINE OR S.P.F. NUMBER 1 OR BETTER SHALL BE USED REGARDLESS OF SPECIES.
3. ANY WOOD FRAME INTERIOR BEARING WALLS SHALL HAVE STUD PROTECTION SHIELDS FOR ALL HOLES OVER 1" IN DIAMETER. ALL HOLES IN THE CENTER OF THE STUD SHALL BE PROTECTED FOR PLUMBING LINES, ETC. SHALL BE PROTECTED BY SIMPSON HSS2 STUD SHOES, TYP., UNLESS OTHERWISE NOTED.

## WOOD FRAMING INSPECTION

ALL PLUMBING, ELECTRICAL, AND MECHANICAL INSTALLATIONS MUST BE COMPLETE, INSULATED, AND APPROVED BEFORE REQUESTING FINAL INSPECTION.

**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.

1. 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 0.83
2. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 40.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. WVF SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 6".
4. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS.
5. HORIZONTAL FOOTING BARS SHALL BE BENT 1"0" AROUND CORNERS OR CORNER BARS WITH A 2"0" LAP PROVIDED.
6. MINIMUM LAP SPLICES ON ALL REINFORCING BAR SHALL BE 40 BAR DIAMETERS TYP
7. CONCRETE COVER MIN. 3" WHEN EXPOSED TO EARTH OR 1"12" TO FORM.

1. HOLLOW LOU BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI ( $f_m = 1350$  PSI)
2. MORTAR SHALL BE TYPE "M" OR "S", CONFORMING TO ASTM C270.
3. COARSE GROUT SHALL CONFORM TO ASTM C475 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI SLUMP 8" TO 11".
4. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH THE CELLS FILLED WITH COARSE GROUT.
5. 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.
6. REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 40 DIAMETERS, UNLESS OTHERWISE NOTED ON THE DRAWING.
7. GROUT STOPS SHALL BE PROVIDED BELOW DONUT BEAM, PLASTIC SCREEN METAL LATH STRIP OR CAVITY CAPS MAY BE USED TO PREVENT THE FLOW OF GROUT INTO CELLS BELOW.

THE USE OF FELT PAPER AS A STOP IS PROHIBITED.

1. WOOD CONSTRUCTION SHALL CONFORM TO THE NFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", LATEST EDITION.
2. ALL EXTERIOR WOOD STUD WALLS, BEARING WALLS, WALLS AND MISCELLANEOUS STRUCTURAL WOOD FRAMING MEMBERS (I.E. BRACING OR CABLE END BRACING ) SHALL BE EITHER SOUTHERN PINE OR S.P.F. NUMBER 2 GRADE SHALL BE USED REGARDLESS OF SPECIES.
3. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIA. SHALL HAVE STUD PROTECTION SHEATHS FOR ALL HOLES EXPOSED 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.

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

|                                   |                                                                                                                                                                                                                                                                                                                                         |                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| CODES:                            | 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                             |                                                                 |
| LIVE LOADS:                       | 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      |
| WIND LOADS:<br>(F.B.C.)           | WIND LOADS BASED ON FBC, SECTION 1609<br>WIND VELOCITY: 110 M.P.H., USE FACTOR: 1.0                                                                                                                                                                                                                                                     |                                                                 |
| CONCRETE<br>STRENGTH<br>@ 28 DAYS | 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                                            |
| REINFORCING:                      | 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 |
| CONCRETE<br>MASONRY<br>UNITS:     | ASTM C90-99b, STANDARD WEIGHT UNITS, fm=1500 PSI<br>MORTAR TYPE "S" 1800 PSI<br>CONCRETE GROUT, 3000 PSI<br>CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION                                                                                                                                                               |                                                                 |
| STRUCTURAL<br>STEEL:              | 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                                                                                                                                                                            |                                                                 |
| WOOD FRAMING:                     | BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O.<br>NO. 2 SOUTHERN YELLOW PINE (19% M.C.)<br>ROOF DECK: PLYWOOD C-C/D, EXTERIOR, OR OSB<br>FLOOR SHEATHING: T&G A-C GROUP 1 APA RATED (48/24)<br>WALL SHEATHING: PLYWOOD C-C/D, EXTERIOR OR OSB<br>VERSA LAM BEAM FB = 2900 PSI (2.0E)<br>WOOD COLS. PARALLAM 2.0E U.N.O.                     |                                                                 |
| WOOD ROOF<br>TRUSSES:             | DESIGN LOADS:<br>TOP CHORD LIVE AND DEAD LOAD:<br>BOTTOM CHORD DEAD LOAD:<br>TOTAL:                                                                                                                                                                                                                                                     | 30 PSF<br>10 PSF<br>40 PSF                                      |
|                                   | SEE DRAWINGS FOR SPECIAL CONCENTRATED LOADS, DESIGN<br>FOR NEW WIND UPLIFT AS PER SPECIFIED CODES, DEDUCTING<br>A MAXIMUM OF 5 P.S.F. DEAD LOAD, BUT NOT EXCEEDING ACTUAL<br>DEAD LOAD.                                                                                                                                                 |                                                                 |
| WOOD FLOOR<br>TRUSSES:            | DESIGN LOADS:<br>DEAD LOAD:<br>LIVE LOAD:<br>TOTAL:                                                                                                                                                                                                                                                                                     | 15 PSF<br>40 PSF<br>55 PSF                                      |
| SOIL BEARING<br>VALUE:            | 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<br>FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN. |                                                                 |

**WALLS**

**GABLE ROOFS**

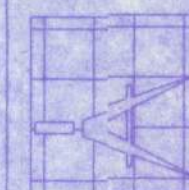
**HIP ROOFS**

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.

| SHEET NUMBER | DESCRIPTION                 |
|--------------|-----------------------------|
| A-1          | GENERAL NOTES SHEET         |
| A-2          | SITE PLAN                   |
| A-3          | FLOOR PLAN/ELECTRICAL PLAN  |
| A-4          | ELEVATIONS/TYPICAL SECTIONS |
| A-5          | FOUNDATION PLAN             |
| A-6          | ROOF PLAN                   |
| A-7          | TYPICAL WALL SECTIONS       |
| A-8          | SHEARWALL DETAILS           |

GARAGE FOR CHARLIE  
AND RENEE KEITH

28 SW NASSAU STREET  
LAKE CITY, FL. 32025  
386/753-4209



**Freeman**  
Design Group, Inc.

CERTIFICATE OF AUTHENTICATION # 0608704

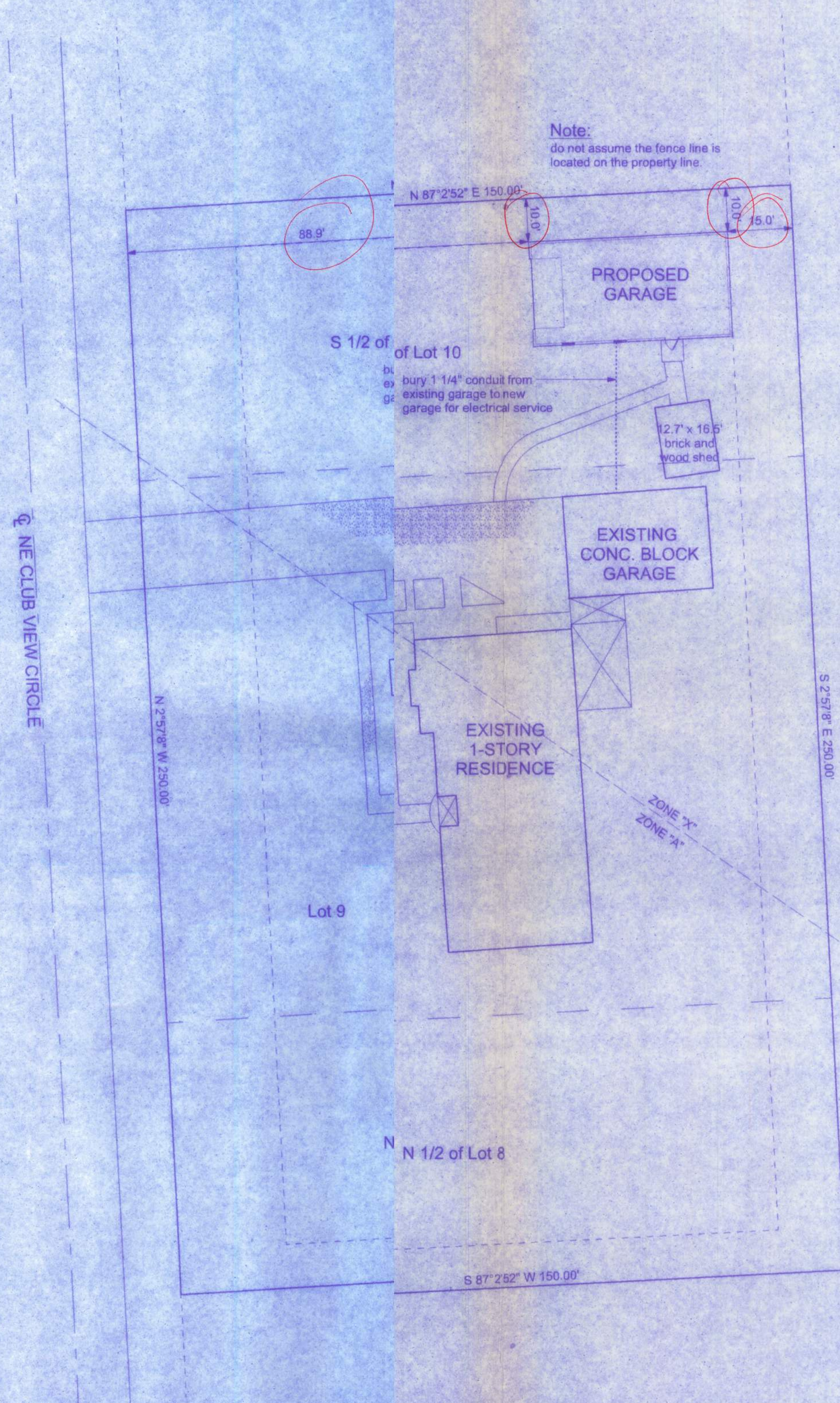
|                 |                    |
|-----------------|--------------------|
| DATE<br>3/11/11 | DRAWN BY<br>W.H.F. |
|                 | APPROVED<br>W.H.F. |
| REVISIONS       |                    |

SHEET A-1  
OF 8

PROJECT N  
11 B006



LEGAL DESCRIPTION:  
N 1/2 OF LOT 8, LOT 9 AND S 1/2 OF LOT 10, BLOCK 2  
CLUB VIEW PARK, IN THE SE 1/4 OF SE 1/4,  
SECTION 27, TOWNSHIP 3 SOUTH, RANGE 16 EAST  
COLUMBIA COUNTY, FLORIDA

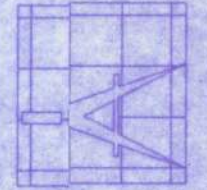


SITE PLAN  
SCALE: 1" = 20'-0"

William H. Foss  
3/12/11  
P.E. # 56831

# GARAGE FOR CHARLIE AND RENEE KEITH

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CERTIFICATE OF AUTHORIZATION # 00008701



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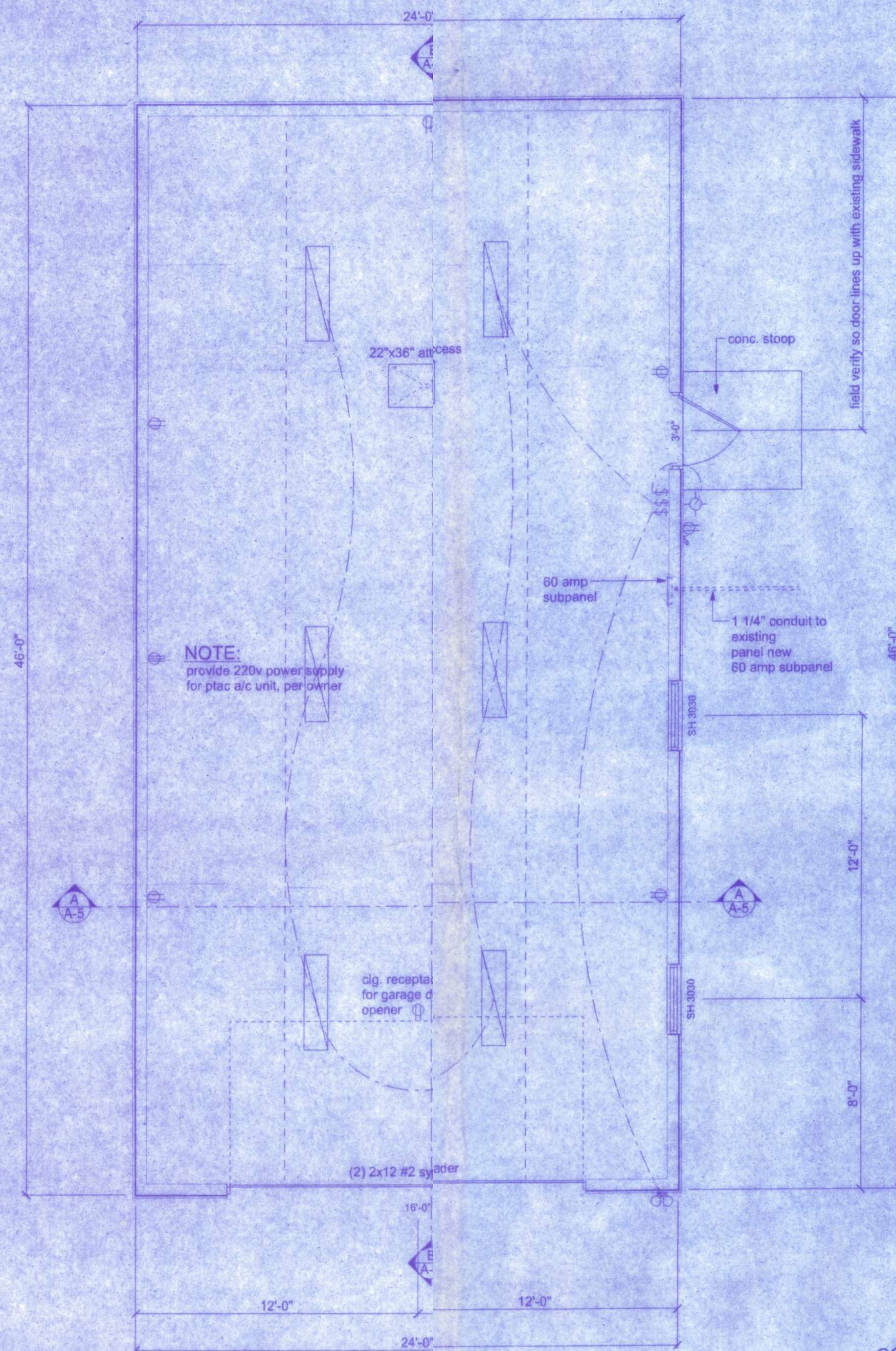
DATE  
3/1/11  
DRAWN BY  
W.H.F.  
APPROVED  
W.H.F.

REVISIONS

SHEET A-2

OF 8

PROJECT NO.  
11.R006



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

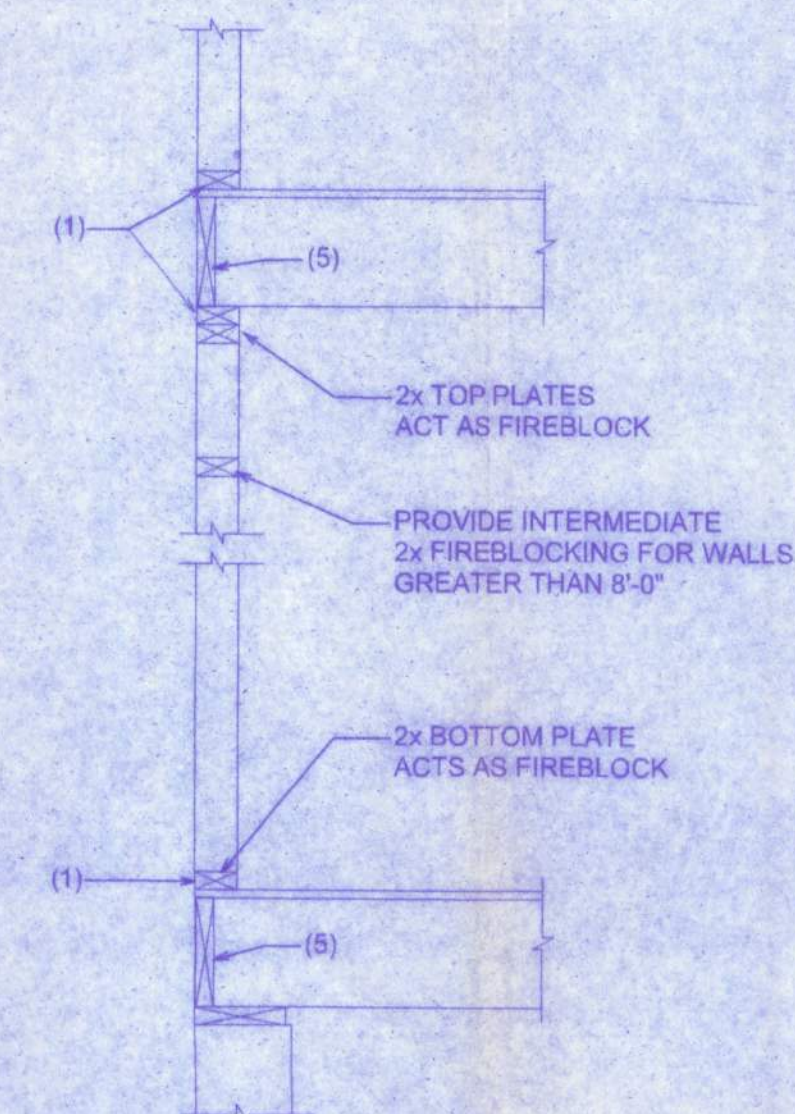
**AREA SUMMARY**  
CONDITIONED AREA 1,104 SF

| ELECTRICAL              | SYMBOL |
|-------------------------|--------|
| fluorescent light 1 x 4 |        |
| double spotlight        |        |
| electrical panel        |        |
| light                   |        |
| outlet                  |        |
| outlet wp               |        |
| switch                  |        |

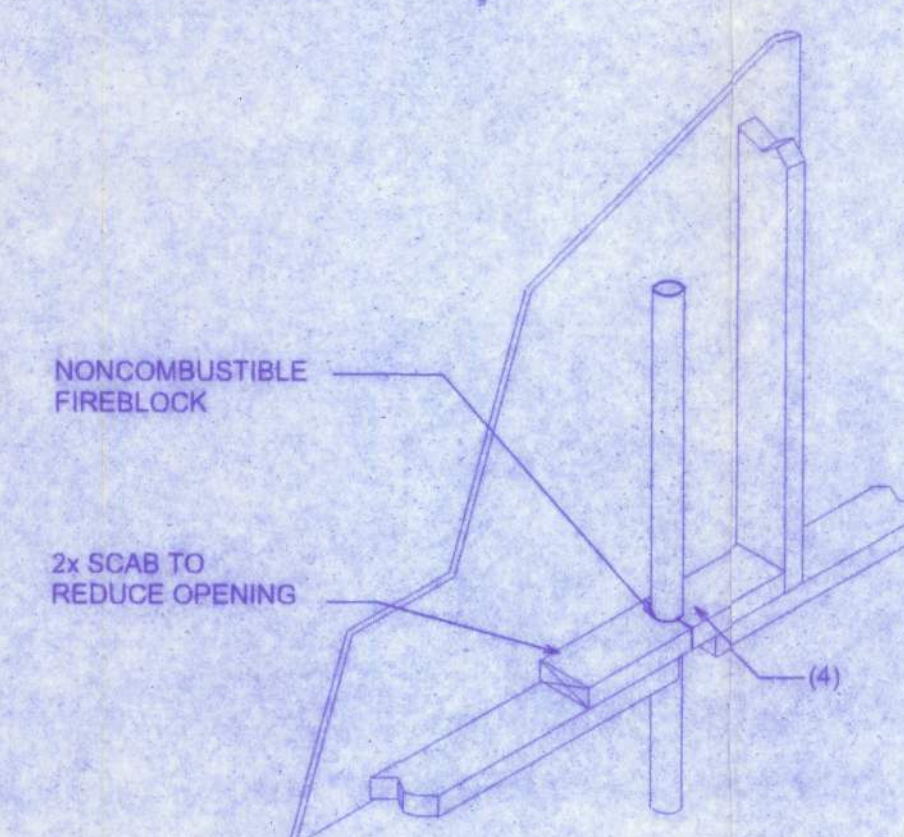
#### ELECTRICAL PLAN NOTES

WIRE ALL APPLIANCES, PER MANUF. SPECIFICATIONS. HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.  
CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.  
INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

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 CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL CHANGES TO THE ELECTRICAL WORK, INCLUDING ANY RISER DIAGRAM, AS-BUILT ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, IDENTIFIED W/ CKT No., (BUILT) PANEL SCHEDULE W/ ALL CKTS & ALL UNDERGROUND W/ DESCRIPTION & BRKR. SERVICE ENT. RISER DIA. SHALL INCLUDE WIRE LOCATIONS/ROUTING/DEPTH. TYPE W/ RATINGS & INCLUDE WIRE SIZES/TYPE & EQUIPMENT CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.



**PLATFORM FRAMING**



**PENETRATIONS**

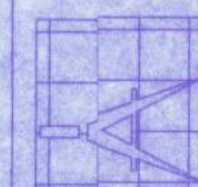
#### FIREBLOCKING NOTES:

- 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 PYRO PANEL 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.

Will H. Lee  
3/11/11  
P.E. # 16804

**GARAGE FOR CHARLIE AND RENEE KEITH**

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**Freeman**  
Design Group Inc.

DATE: 3/11/11  
DRAWN BY: W.H.F.  
APPROVED: W.H.F.

REVISIONS

SHEET: A-3

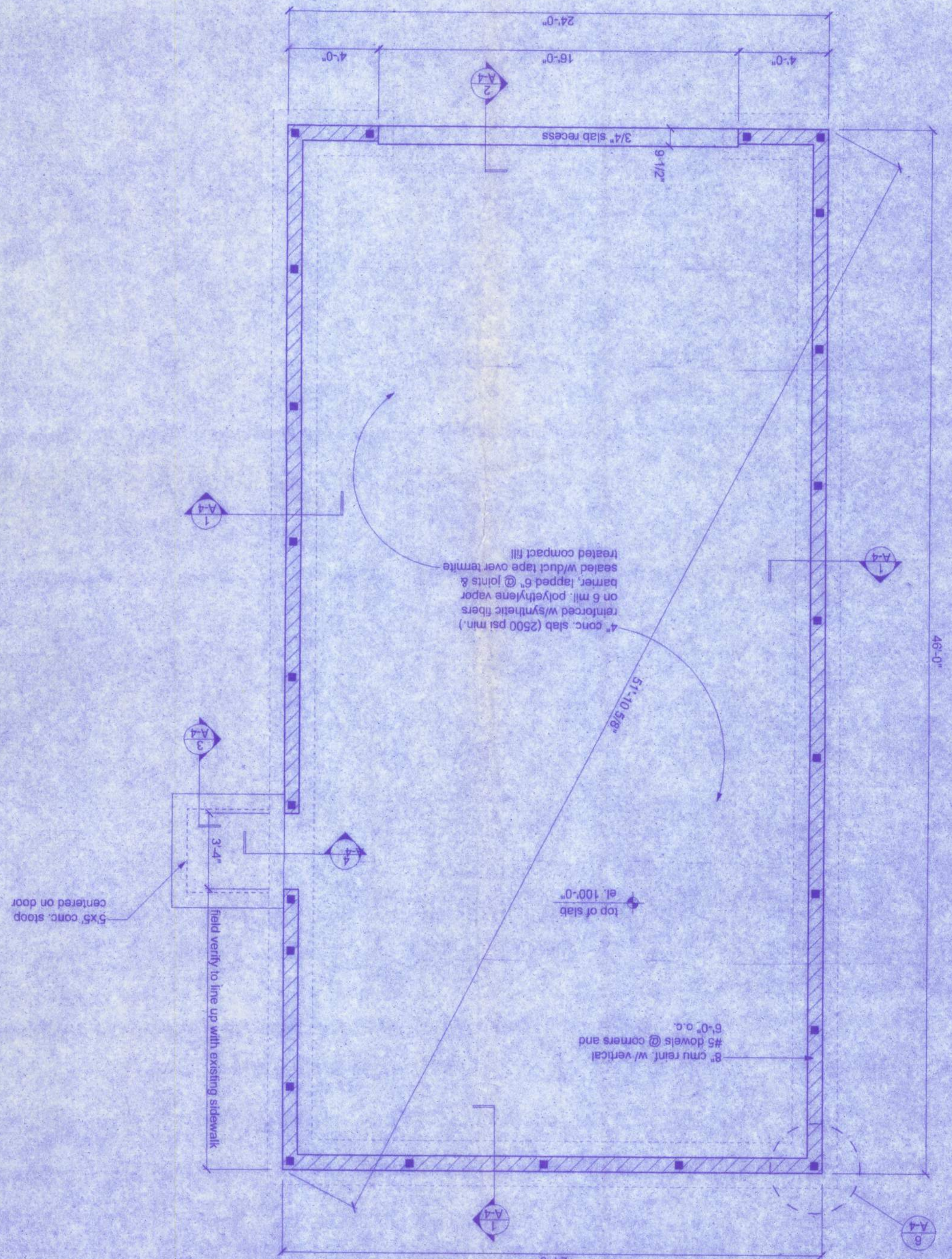
OF: 8

PROJECT NO.: 11.R006

CERTIFICATE OF AUTHORIZATION # 00008707

# FLOOR PLAN

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



CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

COVER OVER REINFORCING STEEL SHALL BE 4" FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3" IN FOUNDATIONS WHERE THE PERMANENTLY IN CONTACT WITH THE EARTH OR WEATHER AND 1 1/2" 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 FACED GROUT OF NOT LESS THAN 1 1/2" INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER.

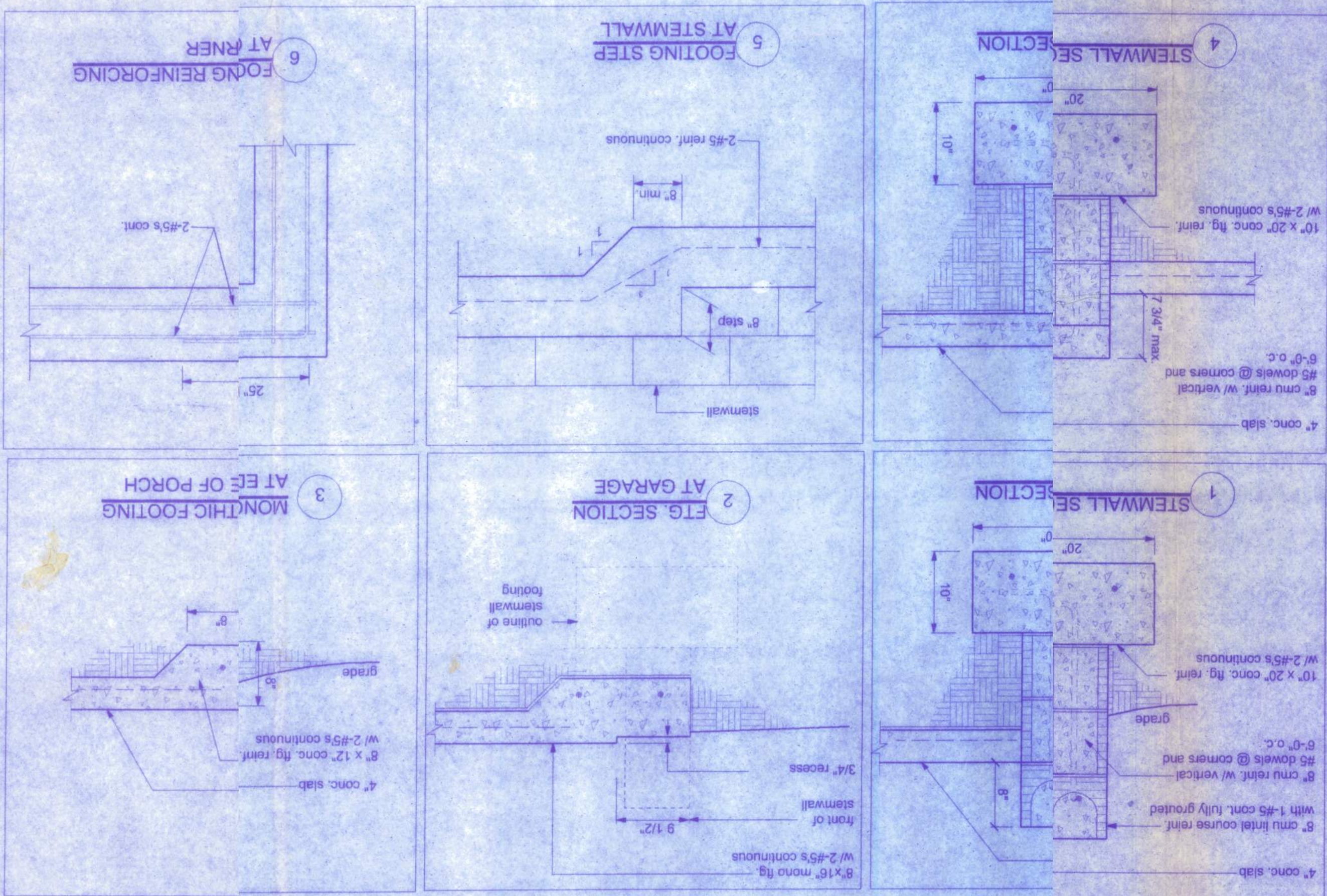
ALL REINFORCEMENT IS BENT IN THE SHOP OR THE FIELD PROVIDED, NOT LESS THAN SIX BAR DIAMETERS BURED ON THE INSIDE OF THE BAR, IS REINFORCEMENT PARTIALLY EMBEDDED AND DOED IN CONCRETE SHALL NOT BE EXCEPT WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL. BARS PARTIALLY ECESSARY TO ALIGN DOWEL BARS WITH HORIZONTAL DISPLACEMENT TO 8 INCHES OF NOT MORE THAN 1 INCH OF INCHES OF VERTICAL BAR LENGTH.

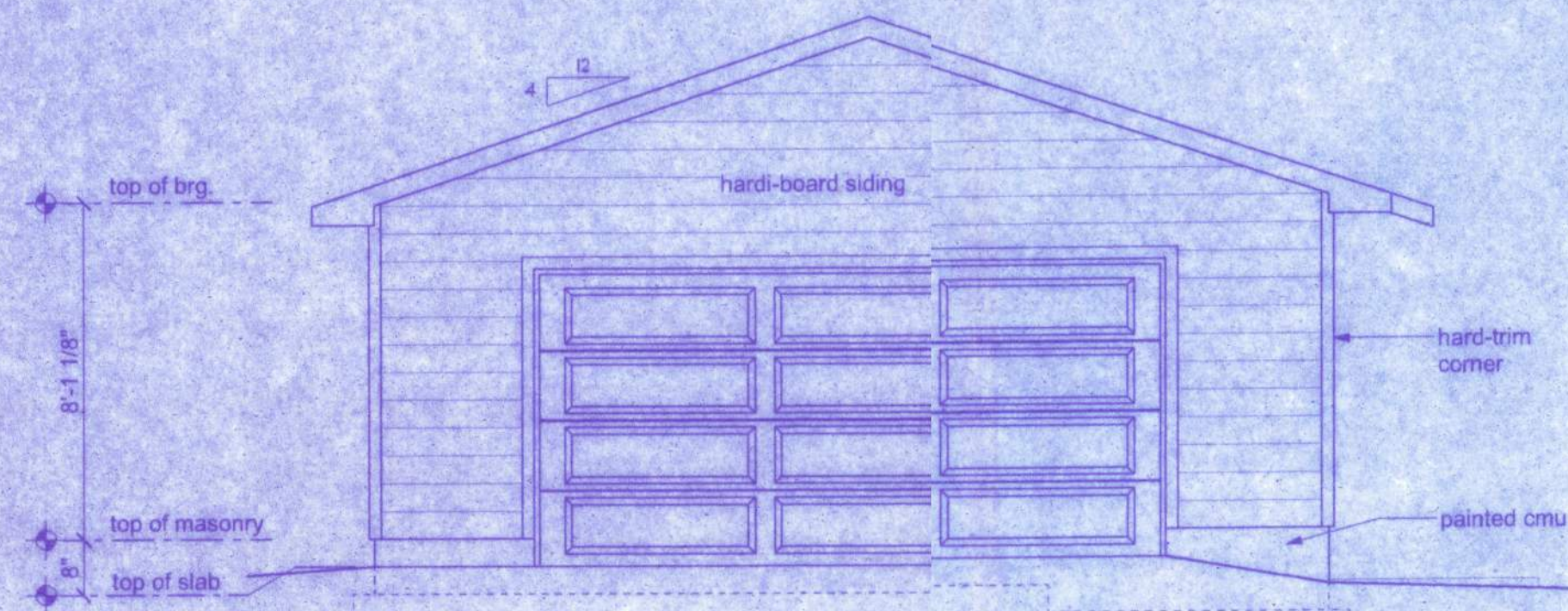
METAL ACCESSORIES FOR USE IN EXTERIOR WALLS SHALL BE GALVANIZED STEEL OR HOT DIPPED GALVANIZED. HE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

## SLAB REQUIREMENTS

JOINTS ARE NOT REQUIRED IN UNREINFORCED CONCRETE SLABS ON GROUND OR IN SLAB FORGED PLAIN TWO FAMILY DWELLINGS COMPLYING WITH SLABS FOR ONE AND WITH ONE OF THE FOLLOWING:

- CONCRETE SLABS ON GROUND REINFORCEMENT: FIBER LENGTH CONTAINING SYNTHETIC FIBER IN LENGTH. DOSAGE AMOUNTS NGHTS SHALL BE 1/2 INCH TO 2 INCHES FROM 0.75 TO 1.5 POUNDS PER CTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C 1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE.
- CONCRETE SLABS ON GROUND: OFFICIAL, OR REQUESTED BY THE BUILDING OFFICE WHEN REINFORCED BY THE BUILDING OFFICE.
- WELDED WIRE REINFORCEMENT CONTAINING 6x6 W1.4 x W1.4 THE MIDDLE TO THE UPPER 1/3 OF THE SLAB. WELDED WIRE REINFORCEMENT FABRIC SHALL BE SUPPORTED WITH APPROVED MATERIAL OR SUPPLY BE SUPPORTED WITH 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.





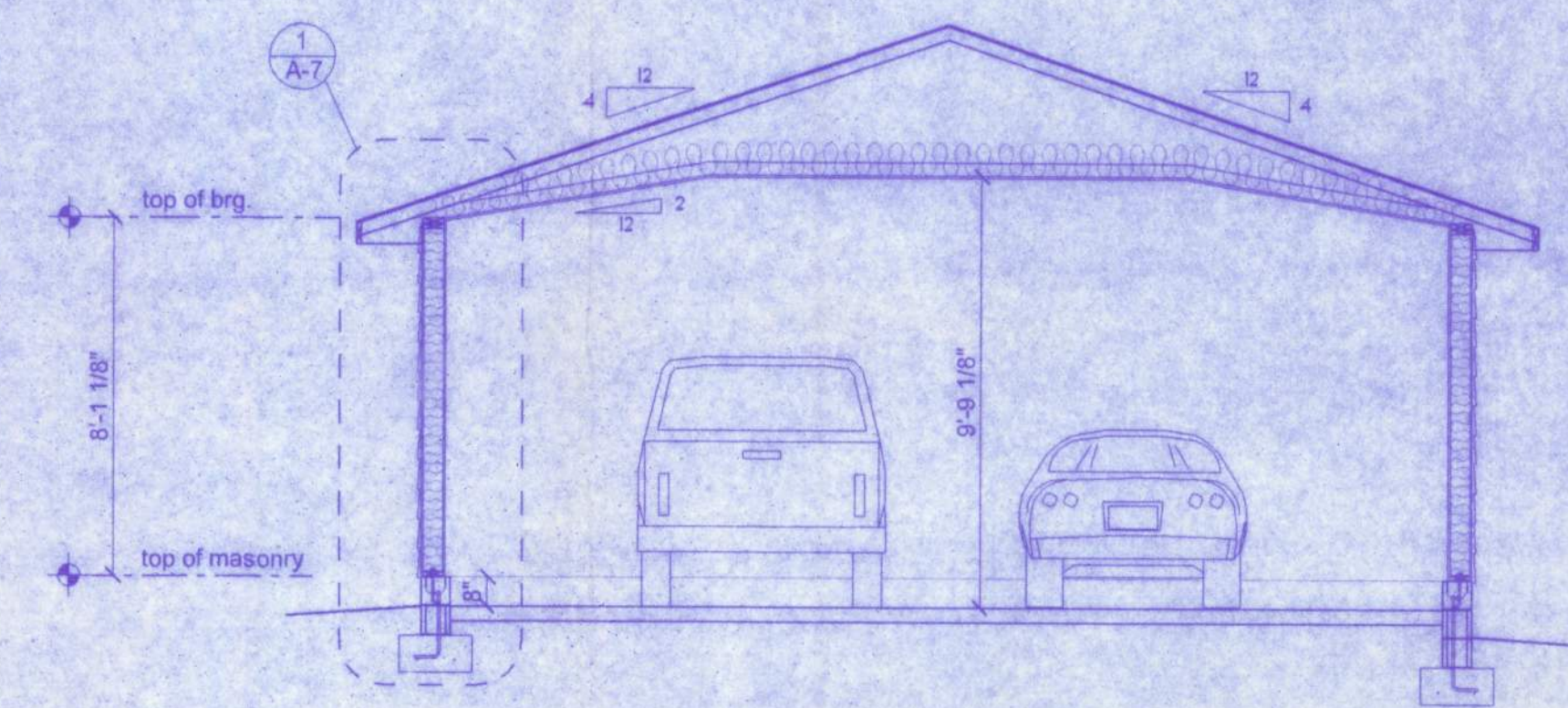
**FRONT ELEVATION**

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

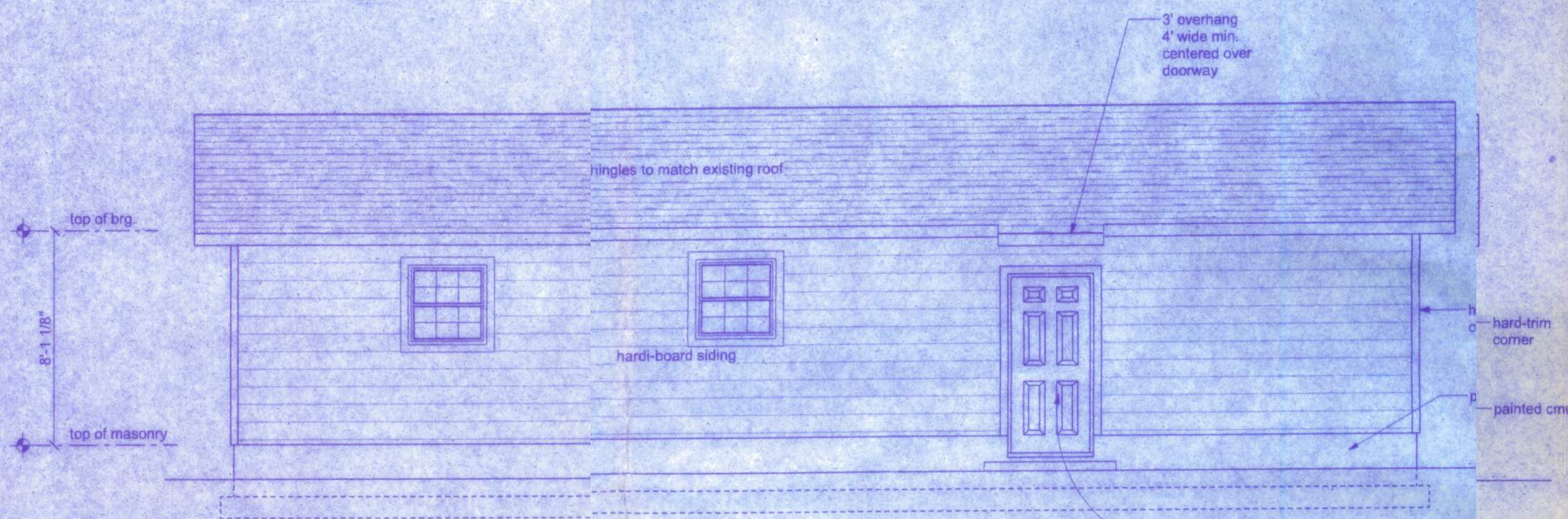


**REAR ELEVATION**

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

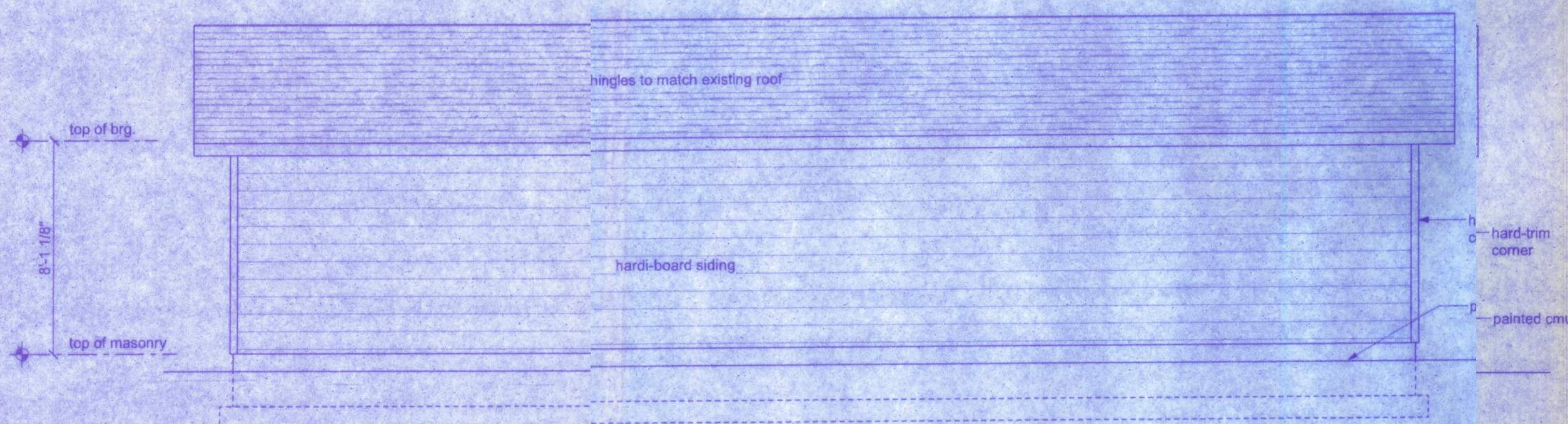


**SECTION A**  
SCALE: 1/4" = 1'-0"



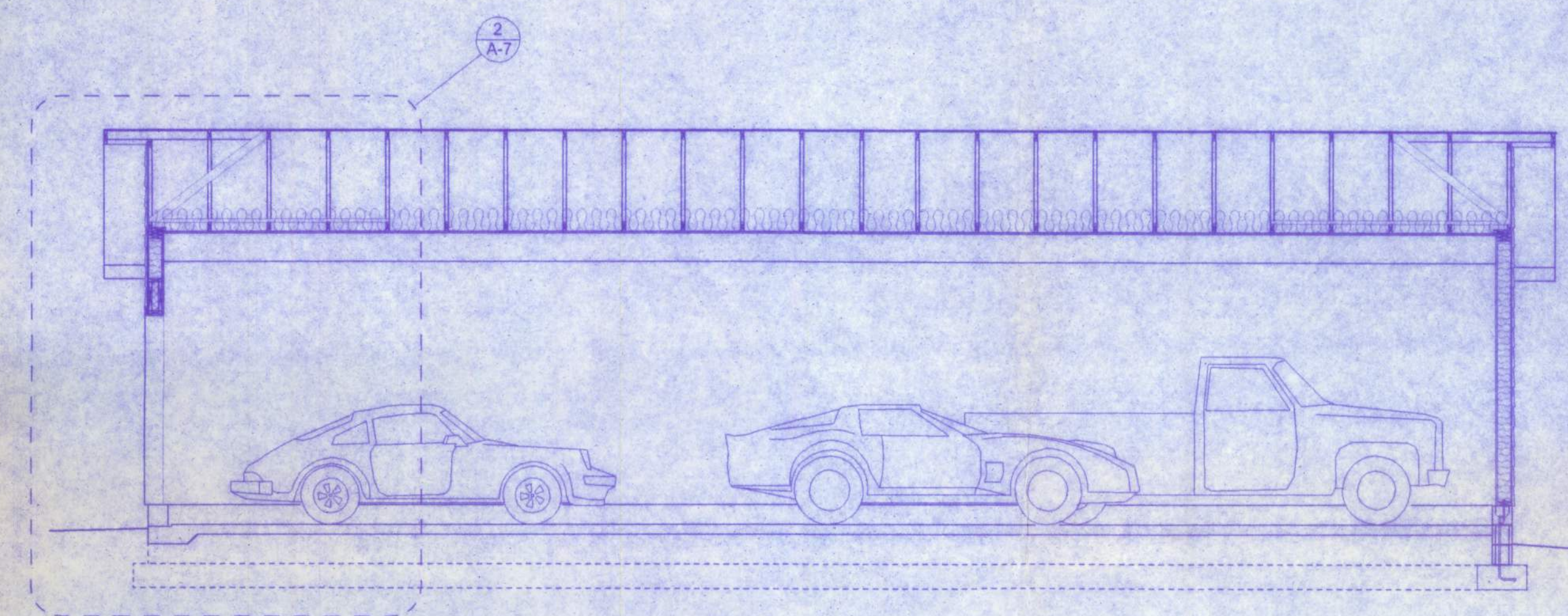
**RIGHT ELEVATION**

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

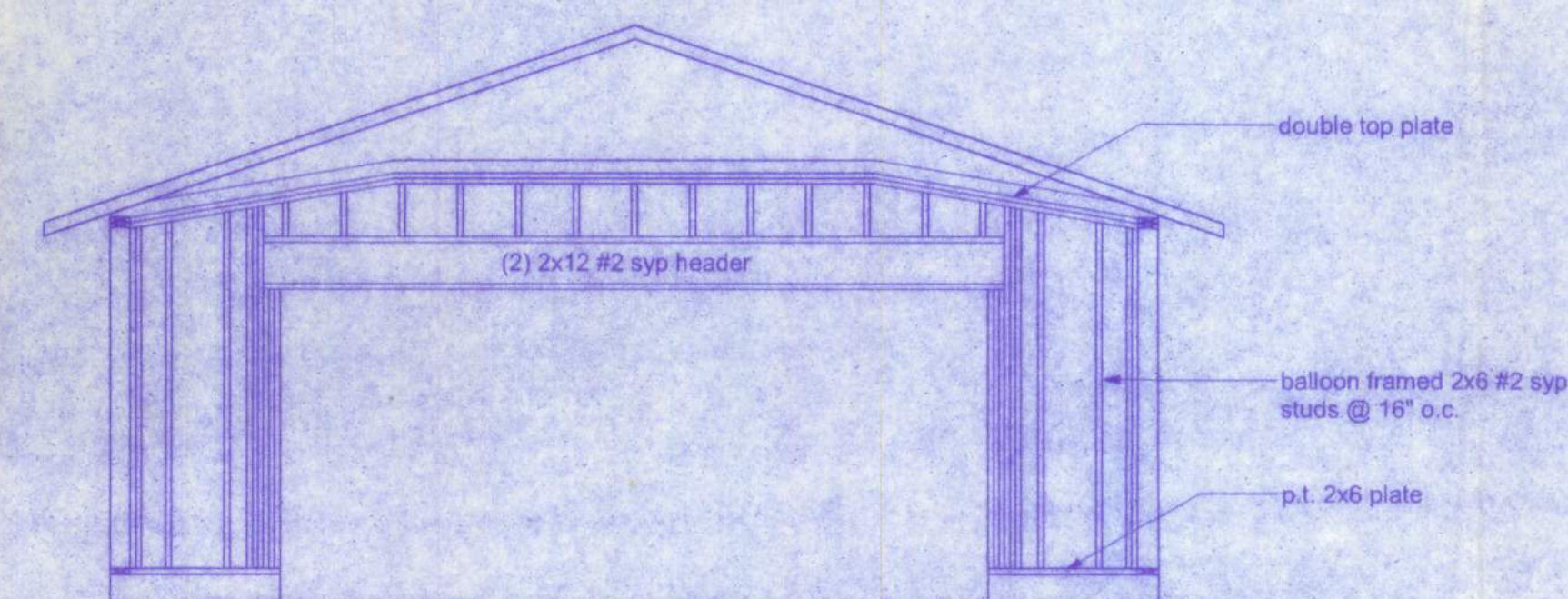


**LEFT ELEVATION**

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

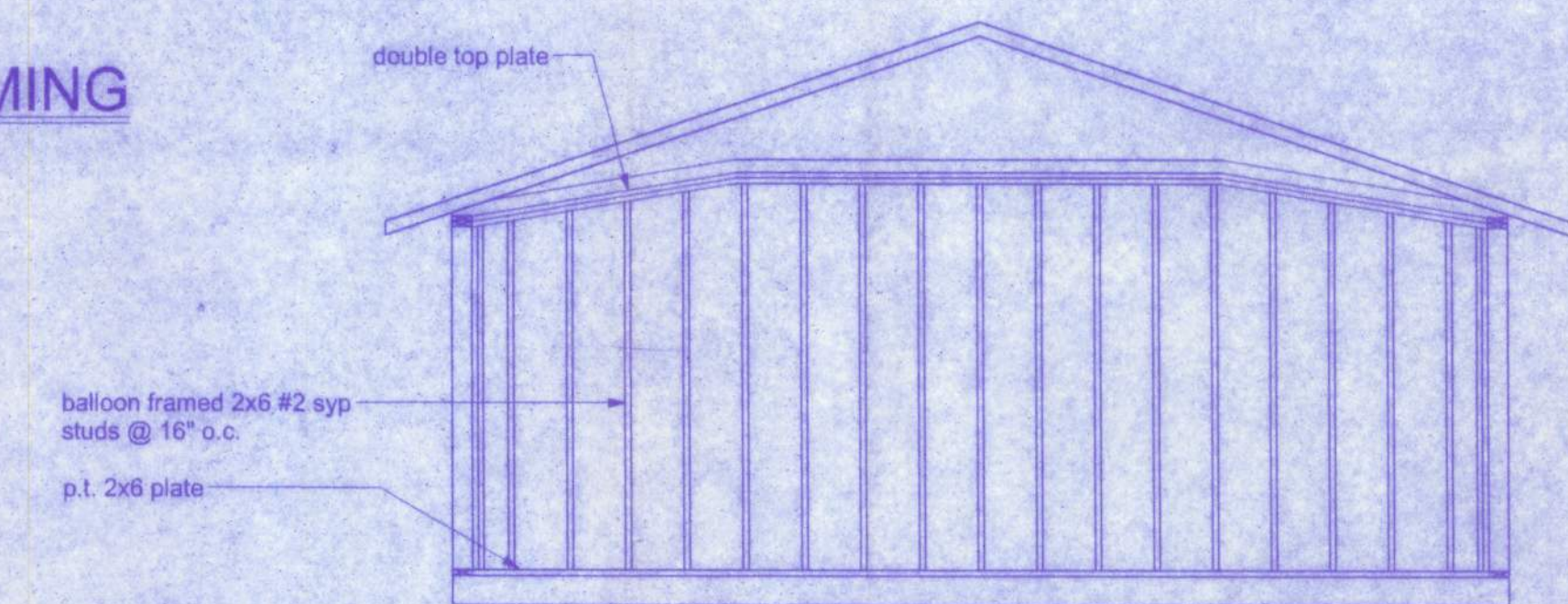


**SECTION B**  
SCALE: 1/4" = 1'-0"



**FRONT WALL FRAMING**

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



**REAR WALL FRAMING**

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

**GARAGE FOR CHARLIE  
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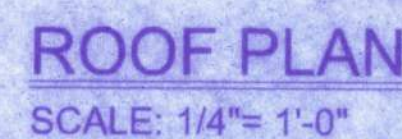
REVISIONS

SHEET A-5

OF 8

PROJECT NO.  
11.R006

CERTIFICATE OF AUTHORIZATION # 00000701



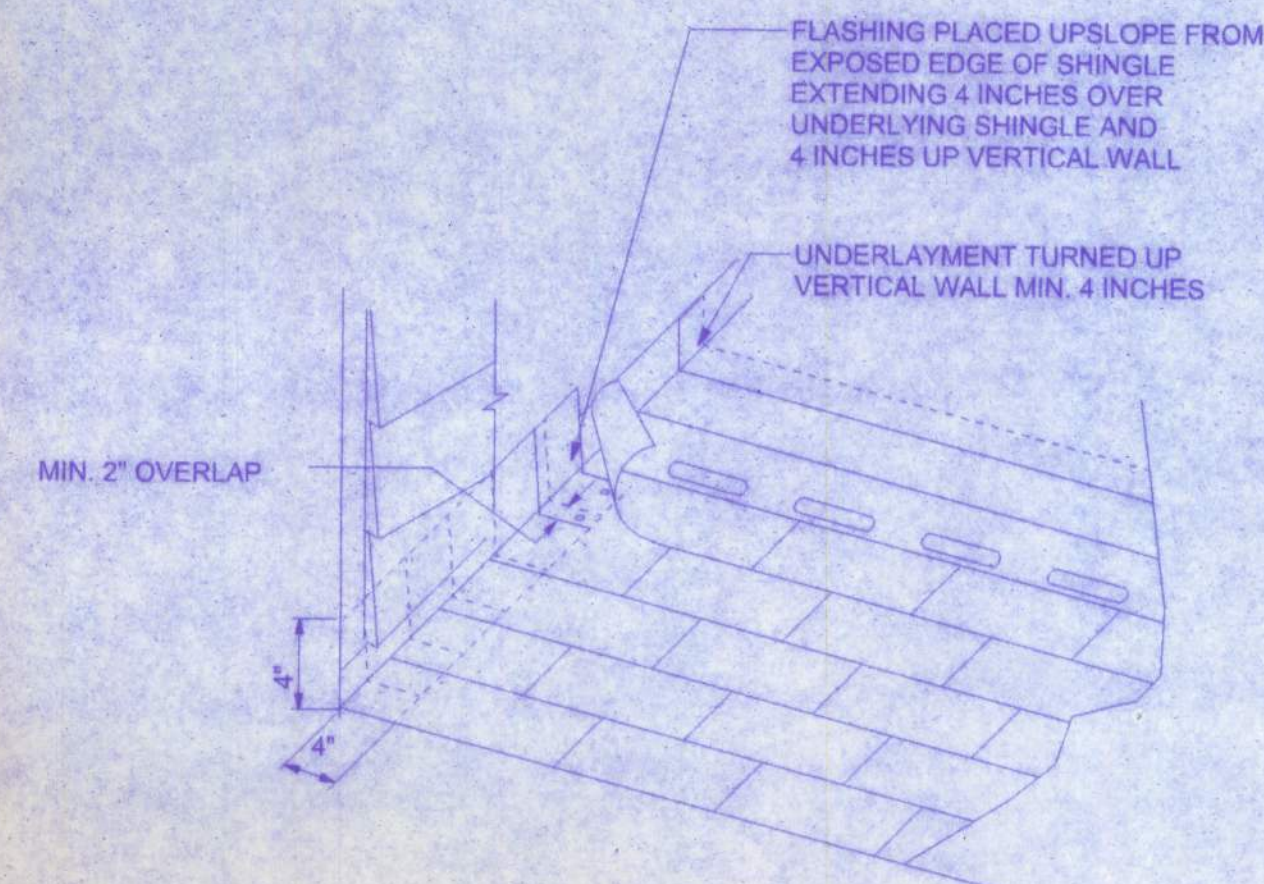
NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE



| 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                                                   |

ventilation shall be provided to furnish cross ventilation of each separate attic space with weather protected vents. all vents shall be screened to protect the interior from intrusion of birds. the ratio of total net free ventilation area to the area of ceiling shall not be less than 1/150.

### ROOF SHEATHING NAILING ZONES (GABLE ROOF)



**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 1907.3.9.2.
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLYS OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 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 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       |                        |                      | 2 1/2       |
| LEAD             | 0.027                  |                      | 20          |
| PAINTED TERNE    |                        |                      |             |



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

| CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE |              |              |                       |              |
|----------------------------------------|--------------|--------------|-----------------------|--------------|
| CONNECTOR                              | TRUSS        | TOP PLATE    | UPLIFT PROVIDED       | MANUFACTURER |
| H2 5                                   | 5-8d NAILS   | 5-8d NAILS   | 365 LBS               | SIMPSON      |
| H10                                    | 8-6d NAILS   | 8-8d NAILS   | 850 LBS               | SIMPSON      |
| MTS12                                  | 7-10d NAILS  | 7-10d NAILS  | 1,000 LBS             | SIMPSON      |
| H16                                    | 2-10d NAILS  | 10-10d NAILS | 1,300 LBS             | SIMPSON      |
| (2)H2S20                               | 10-10d NAILS | 10-10d NAILS | 2 x 1,450 = 2,900 LBS | SIMPSON      |

# GARAGE FOR CHARLIE AND RENEE KEITH

128 SW NASSAU STREET  
LAKE CITY, FL. 32025  
(386)758-4209

**Freeman**  
Design Group inc

CERTIFICATE OF AUTHORIZATION # 00008701

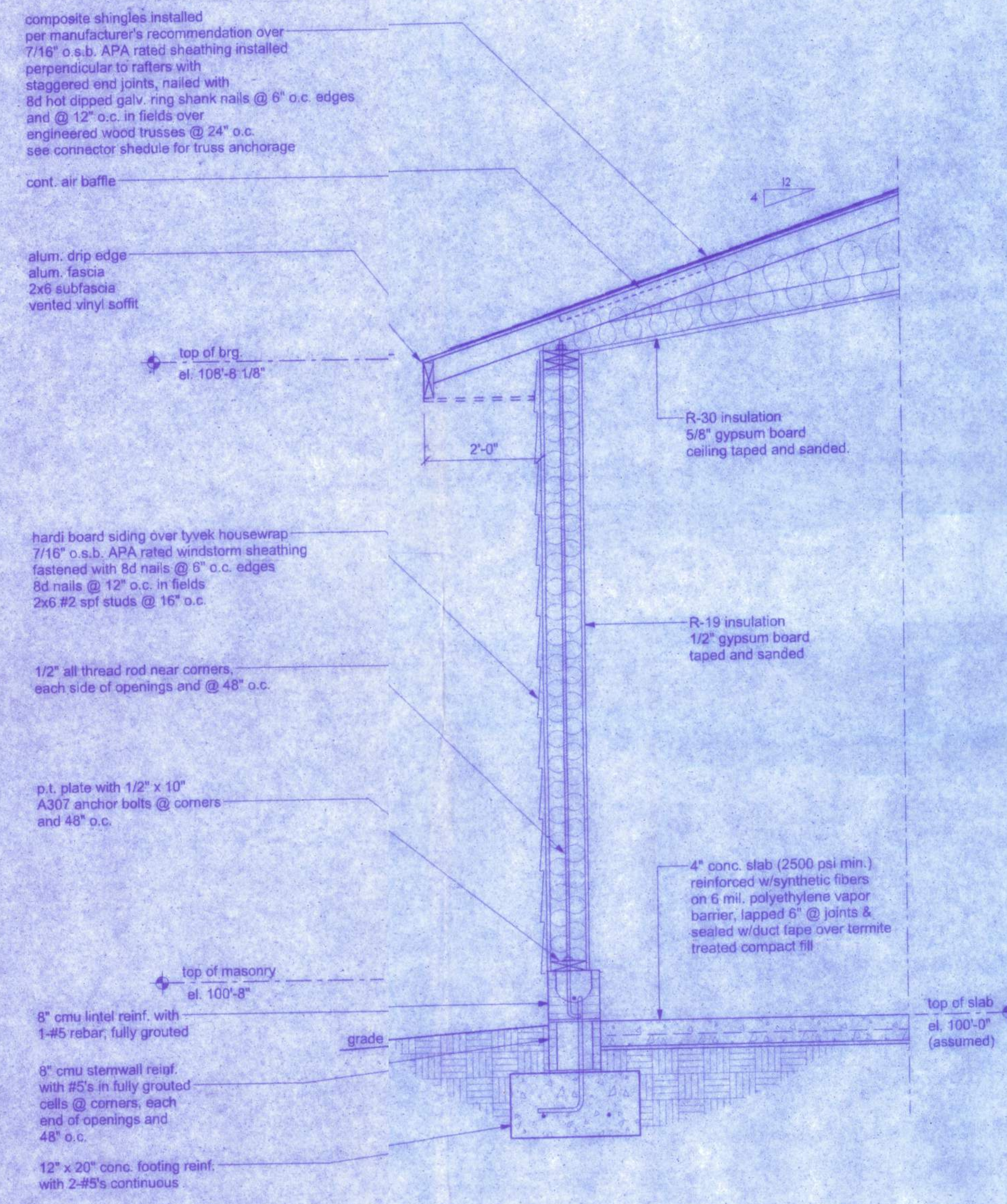
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| DATE<br>3/11/11 | DRAWN BY<br>W.H.F. |
|                 | APPROVED           |

REVISIONS

SHEET 4

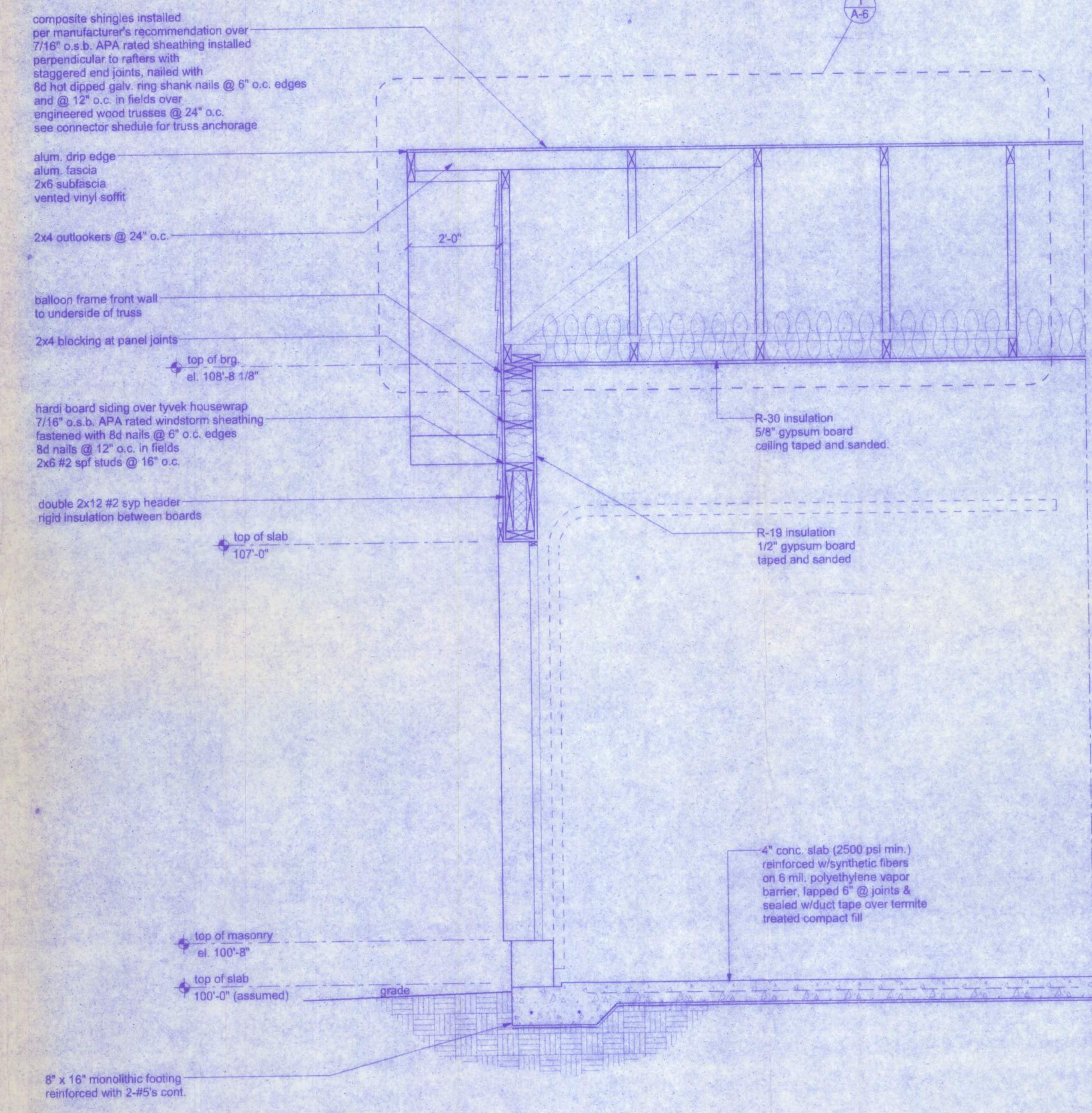
OF 8

PROJECT 11.R006



**NOTE:**  
2 courses of masonry stemwall minimum. field verify if more courses are needed for existing slopes.

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

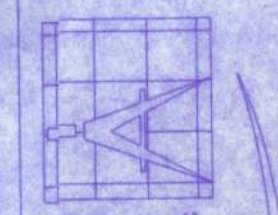


**2 SECTION**  
SCALE: 1/4" = 1'-0"

W.H. Hsu  
5/22/11  
P.E. # 55081

**GARAGE FOR CHARLIE  
AND RENEE KEITH**

120 SW NASSAU STREET  
LAKE CITY, FL 32025  
(386)768-4209



**Freeman**  
Design Group Inc.

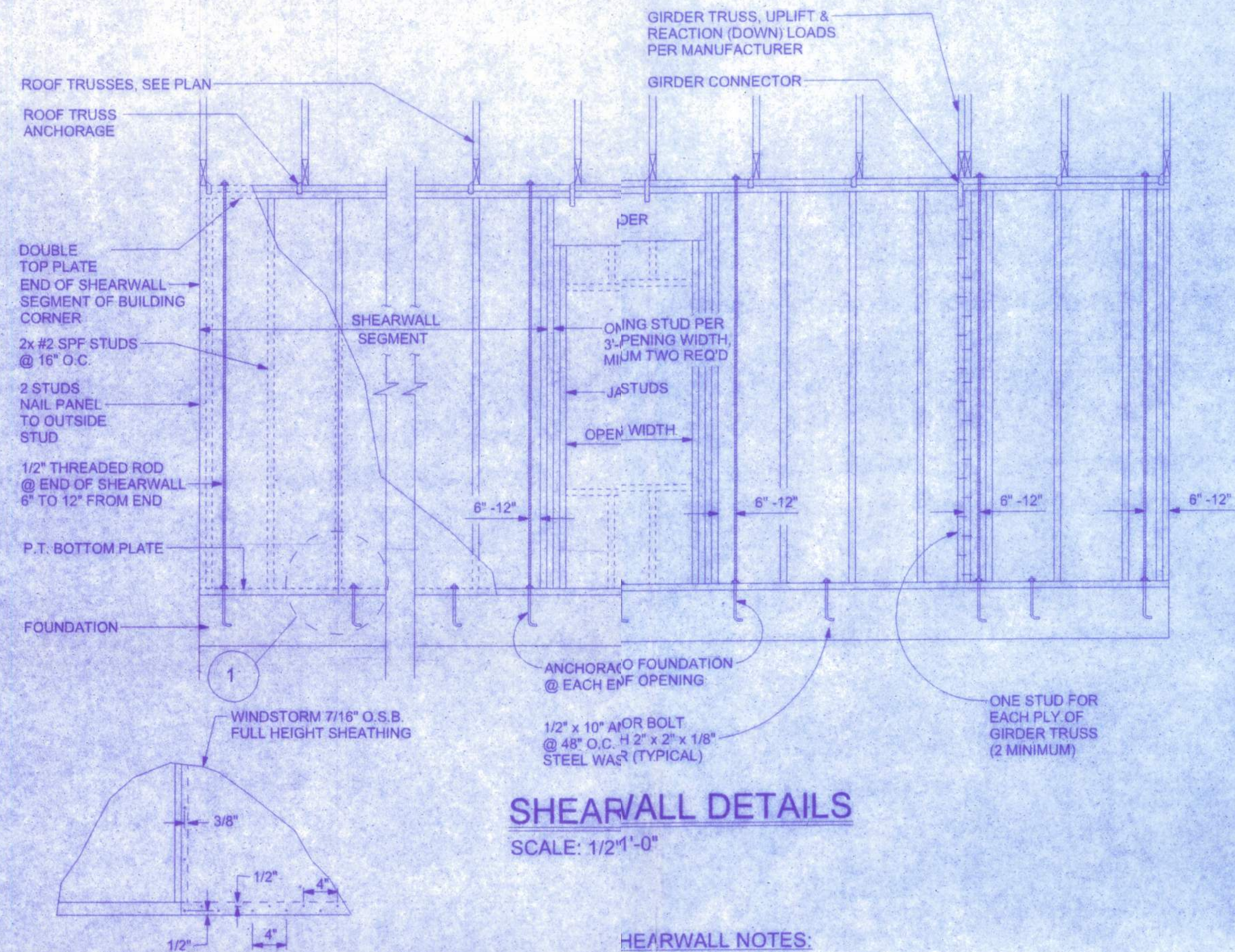
DATE: 11/11  
DRAWN BY: W.H.F.  
APPROVED: W.H.F.

SHEET: A-7

8

PROJECT NO.  
11.R006

CERTIFICATE OF AUTHORIZATION # 00008701



**SHEARWALL DETAILS**  
SCALE: 1/2" = 1'-0"

**DOUBLE NAIL EDGE SPACING  
TOP AND BOTTOM PLATE**  
UPLIFT CAPACITY = 474 plf  
(TABLE 305S1, SSTD10-99)

- RULES:**
1. One all-thread rod at each corner.
  2. One all-thread rod at 48" o.c.
  3. One all-thread rod at each end of opening headers.
  4. Check sub-sheathing to top plate connection for horizontal transfer capability.
  5. If necessary, add all-thread rods to girders individually to exclude the 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 set 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 within 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 misplacement, the rod may be epoxied into the concrete.

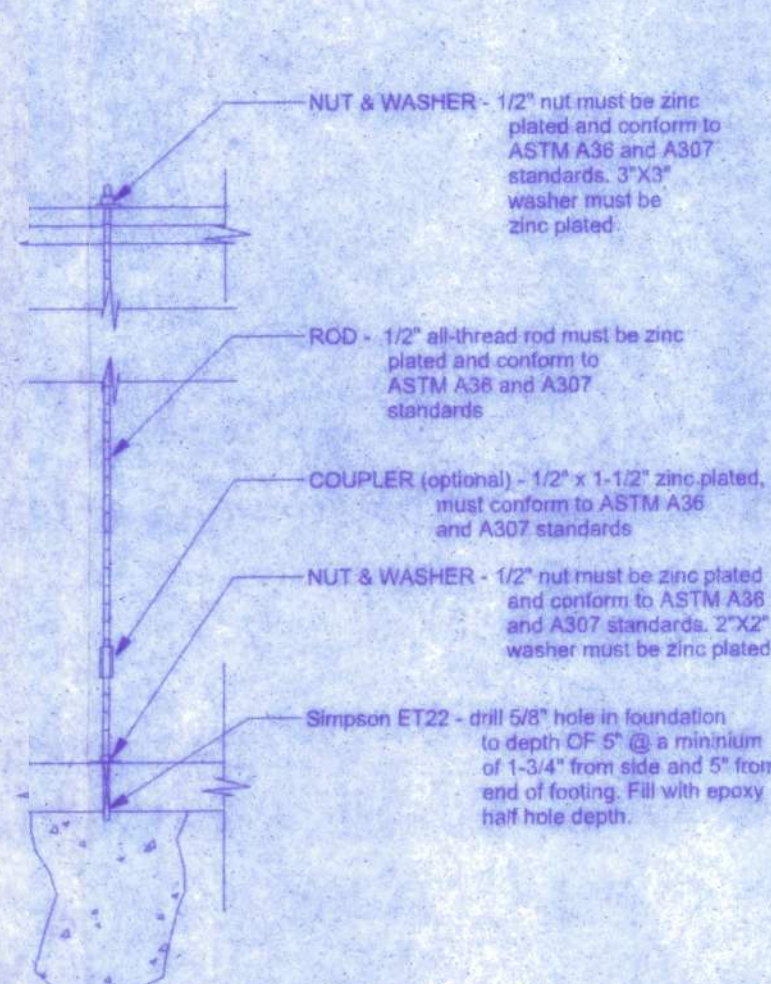
**Sole plate to slab connection:**  
The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate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

**System Tightening:**  
On multiple story applications, the all-thread rod system shall be rechecked 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.

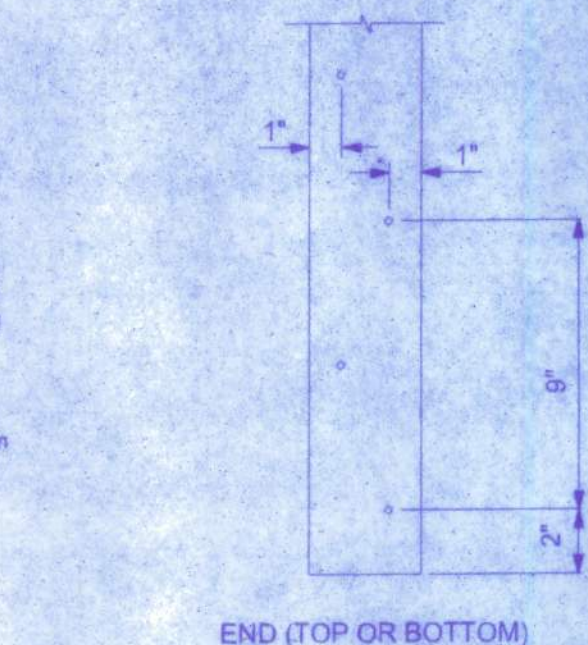
**SHEARWALL NOTES:**

ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-99 305.4.3.  
THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.  
ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURRING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.  
NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.  
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                      |



**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.



**GIRDER COLUMN DETAIL**  
SCALE: 1/2" = 1'-0"

| 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 structural headers shall be #2 grade syp or better.

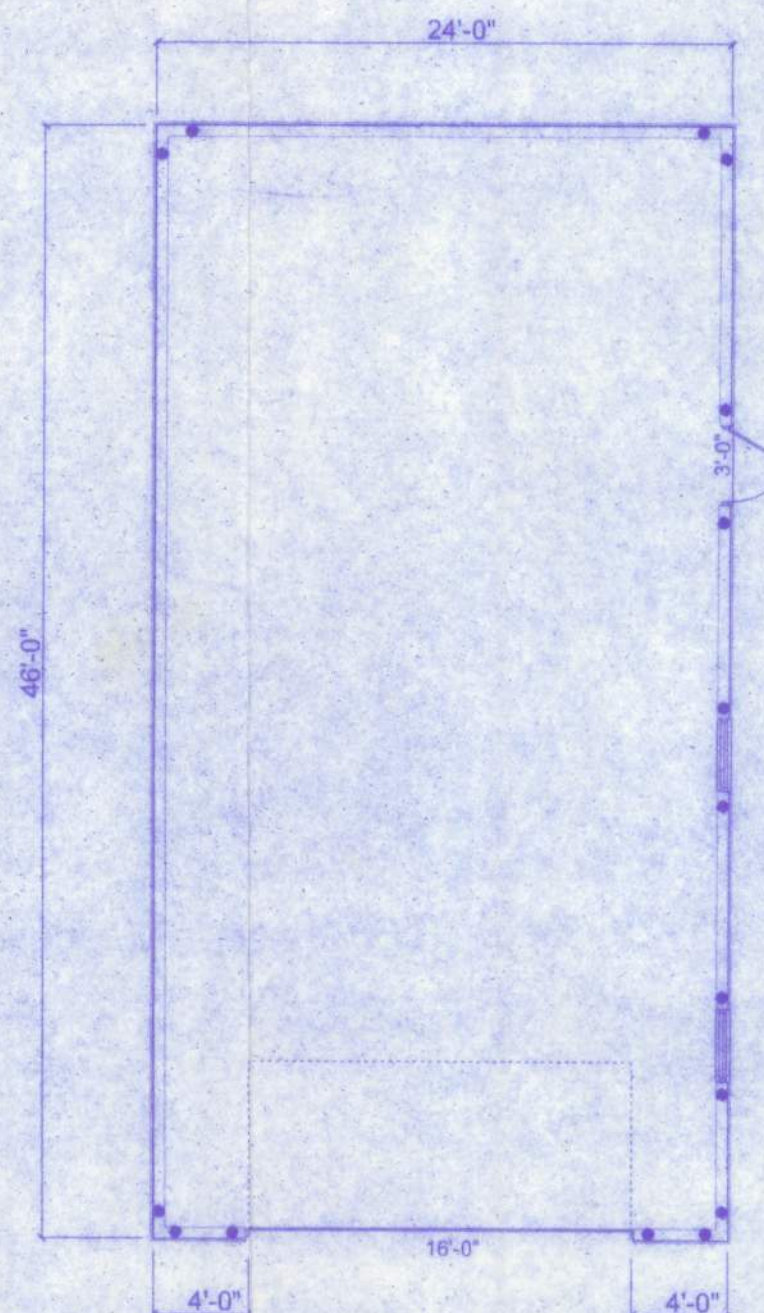
**NOTE:**  
ALL WALL SHEATHING SHALL BE WINDSTORM 7/16" FULL HEIGHT SHEATHING. SEE DETAIL 1 FOR NAILING. THIS WILL ELIMINATE THE NEED FOR PLACING ALL-THREAD RODS @ 48" O.C. HOWEVER THEY ARE STILL REQUIRED ON CORNERS AND EACH SIDE OF OPENINGS.

**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 LOCATION

**NOTE:**  
VERIFY GIRDER TRUSS LOCATION ON TRUSS LAYOUT FOR REQ'D ALL THREAD AT GIRDER LOCATION



**SHEARWALL PLAN**  
SCALE: 1/8" = 1'-0"

**GARAGE FOR CHARLIE  
AND RENEE KEITH**

128 SW NASSAU STREET  
LAKE CITY, FL 32025  
(386) 758-4209

**Freeman  
Design Group Inc.**

DATE: 3/11/1  
DRAWN BY: W.H.F.  
APPROVED: W.H.F.

REVISIONS

SHEET A-8

OF 8

PROJECT NO.  
11.R006

CERTIFICATE OF AUTHORIZATION # 00008701