EXISTING WILL, CULVERT WILL, SEPTIC, CULVERT WILL, SEPTIC, CULVERT ERISTING MH HERER REMOVED TO BE REMOVED CULVE BELLAMY ROAD (GRADE/PUBLIC) S.82'00'16"E. 565.81" EXISTING, Culvas S.82'00'16"E. 301.34" PARCEL "C" NO IMPROVEMENTS LOCATED permitte S.81°59'48"E. 565.39" NO IMPROVEMENTS 30.49 LOCATED NEWHUSH PARCEL "B" NO IMPROVEMENTS LOCATED S.8876'07"W. 296.49" S.88'16'07"W. 555.76" SE CORNER OF THE NE 1/4 SECTION 5, TOWNSHIP 7 SOUTH,

A BOUNDARY SURVEY IN SECTION 5, TOWNSHIP 7 SOUTH,
RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA.

SYMBOL LEGEND: 4"X4" CONCRETE MONUMENT FOUND 4"X4" CONCRETE MONUMENT SET IRON PIPE FOUND IRON PIN AND CAP SET ----POWER POLE WATER METER CENTERLINE SATELLITE DISH SCALE: 1" = 100' TELEPHONE BOX --E-- ELECTRIC LINES --\*-- WIRE FENCE ---- CHAIN LINK FENCE ---- WOODEN FENCE

#### DESCRIPTION: PARCEL "FA"

A PART OF THE NE 1/4; OF SECTION 5, TOWNSHIP 7 SOUTH, RANGE 17 EAST, BEING MORE PARTICULARLY DE SCRIBED AS FOLLOWS: BEGIN AT THE SE CORNER OF SAID NE 1/4 AND RUN THENCE \$5.8876'07"W. ALONG THE SOUTH LINE OF SAID NE 1/4 A DISTANCE OF 296.49 FEFET; THENCE N.0278'58"W., A DISTANCE OF 761.57 FEET TO THE SOUTHERLY MAINTANINED RIGHT—OF—WAY OF BELLAMY ROAD; THENCE \$5.82'00'16"E., ALONG SAND SOUTHERLY RIGHT—OF—WAY A DISTANCE OF 301.34 FEET TO THE EAST LINE OF \$5.00 NE 1/4; THENCE \$5.02'18'58"E., ALONG SAID EAST LINE OF NE 1/4 A DISTANCE OF 710.66 FEET TO THE POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA.

PARCEL CONTAINS 5.01, ACRES, MORE OR LESS.

#### DESCRIPTION: PARCEL "BB"

A PART OF THE NE 1/4! OF SECTION 5, TOWNSHIP 7 SOUTH, RANGE 17 EAST, BEING MORE PARTICULARRLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SE CORNER OF SAID NE 1/44 AND RUN THENCE S.88°16'07"W., ALONG THE SOUTH LINE OF SAID NE 1/4 2996.49 FEET TO THE POINT OF BEGINNING; THENCE S.88°16'07"W., STILL ALONG SAID SOUTH LINE OF NE 1/4 A DISTANCE OF 555.76 FEET; THENCE N.102'22'45"W., A DISTANCE OF 465.00 FEET; THENCE S.81°59'48"E., A DISTANCE OF 565.39 FEET; THENCE S.02'18'58"E., A DISTANCE OF 369.38 FEET TO THE POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA. TOGETHER WITH A 30.00) FOOT EASEMENT OVER AND ACROSS THE FOLLOWING DESCRIBED PROPERTY: COMMECNE AT THE SE CORNER OF THE NE 1/4 AND RUN THENCE S.88°16'07"W.,ALLONG THE SOUTH LINE OF SAID NE 1/4. 296.49 FEET; THENCE N.02°18'588"W., 369.38 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N.02°18'588"W., 392.19 FEET TO THE SOUTH RIGHT—OF—WAY OF BELLAMY ROAD; THENCE N.82°00'16"E., ALONG SAID RIGHT—OF—WAY, 30.49 FEET; THENCE S.02°18'588"E., 392.19 FEET; THENCE S.81'59'48"E., 30.49 FEET TO THE POINT OF EBGINNING.
PARCEL CONTAINS 5.32 FACRES, MORE OR LESS.

## DESCRIPTION: PARCEL "C"

A PART OF THE NE 1/4 LOF SECTION 5, TOWNSHIP 7 SOUTH, RANGE 17 EAST, BEING MORE PARTICULARLLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SE CORNER OF SAID NE 1/4 AND RUN THENCE 5.88°16'07"W., ALONG THE SOUTH LINE OF SAID NE 1/4 8522.25 FEET; THENCE N.02'22'45"E., 465.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N.02'22'45"W., A DISTANCE OF 392.19 FEET TO THE SOUTHERLY MAINTAINED RIGHT—OF—WAY OF BELLAMY ROAD; THENCE S.82'00'16"E., ALCONG SAID SOUTHERLY RIGHT—OF—WAY A DISTANCE OF 565.81 FEET; THENCE S.0.32"18'58"E., A DISTANCE OF 392.19 FEET; THENCE N.81'59'48"W., A DISTANCE OF 565.39 FEET TO THE POINT OF BEGINNING. COLUMBIA COUNTY, FLORILDA. SUBJECT TO A 30.00' EASEMENT FOR INGRESS AND EGRESS OVER AND ACROSSS THE EAST 30.00 FEET THEREOF. PARCEL CONTAINS 5.01 ALCRES, MORE OR LESS.

## SURVEYOR'S NOTES:

1. BOUNDARY BASED ON I MONUMENTATION FOUND.

OF THE NE 1/4.

3. THIS PARCEL IS IN ZONNE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0260 B. HOWNEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.

4. THE IMPROVEMENTS, IFF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON

DATE OF FIELD SURVETY AS SHOWN HEREON.

5. IF THEY EXIST, NO UNIDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR

THIS SURVEY EXCEPT AS SHOWN HEREON.

6. THIS SURVEY WAS COMMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.

CERTIFIED TO:

KEVIN & CAROL BARNETT

FIELD BOOK: SEE PAGE(S): FILE

SURVEYOR'S CERTIFICATION.

RANGE 7 EAST.

I HEREBY CEITIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL SANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 6G17—6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472 027, FLORIDA STATUTES.

4/29/97 FIELD SURVEY DITE

5/5/97 DRAWING DATE LAUREN E. BRITT. P.S.M. CERTIFICATION # 1079

NOTE: UNLESS ITBEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRIMING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES CALLY AND IS NOT VALID.



BRITT SURVEYING

LAND SURVEYORS AND MAPPERS

LAKE CITY, FLORIDA 32055

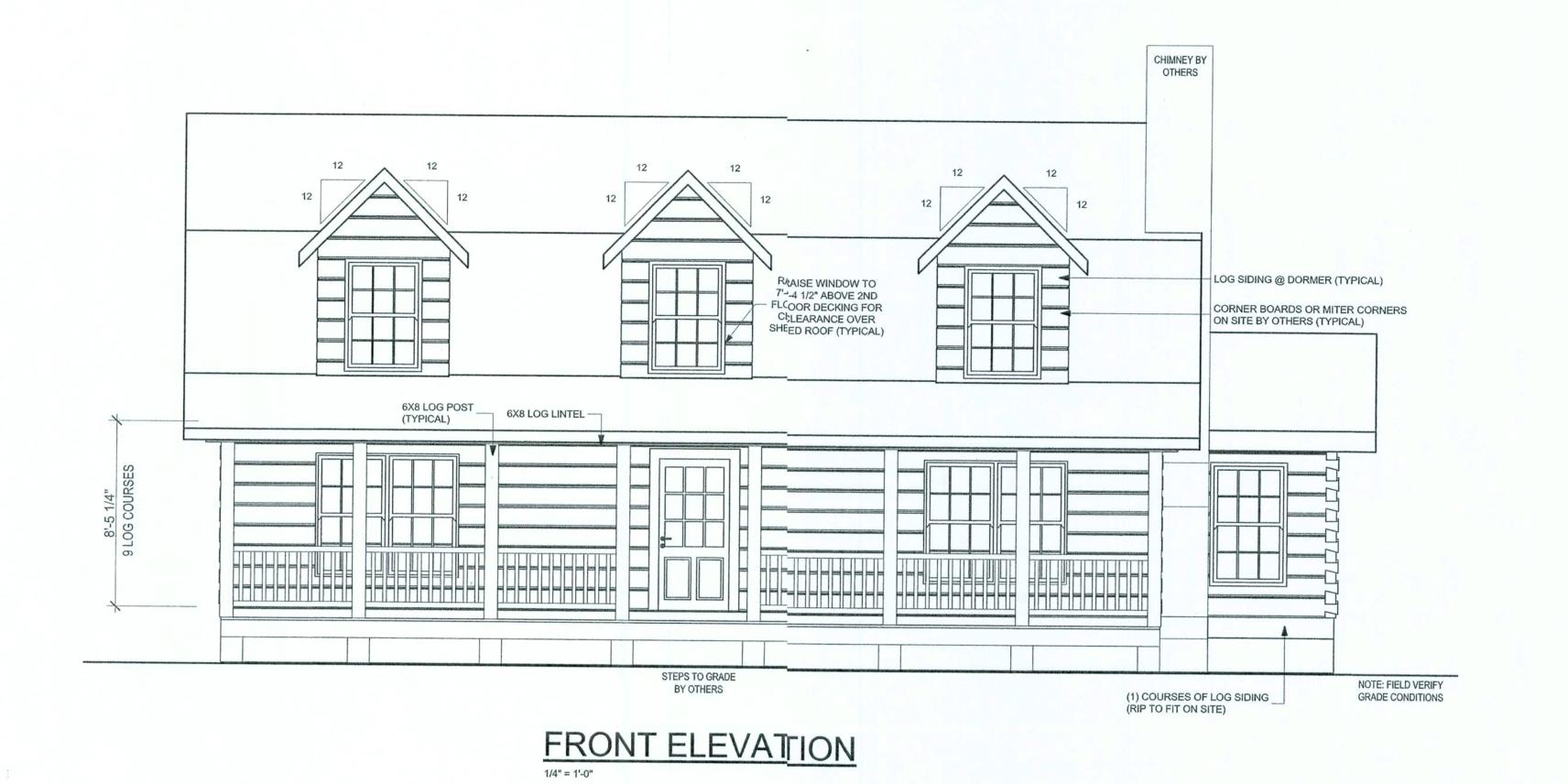
TELEPHONE: (904) 752--7163 FAX: (904) 752-5573

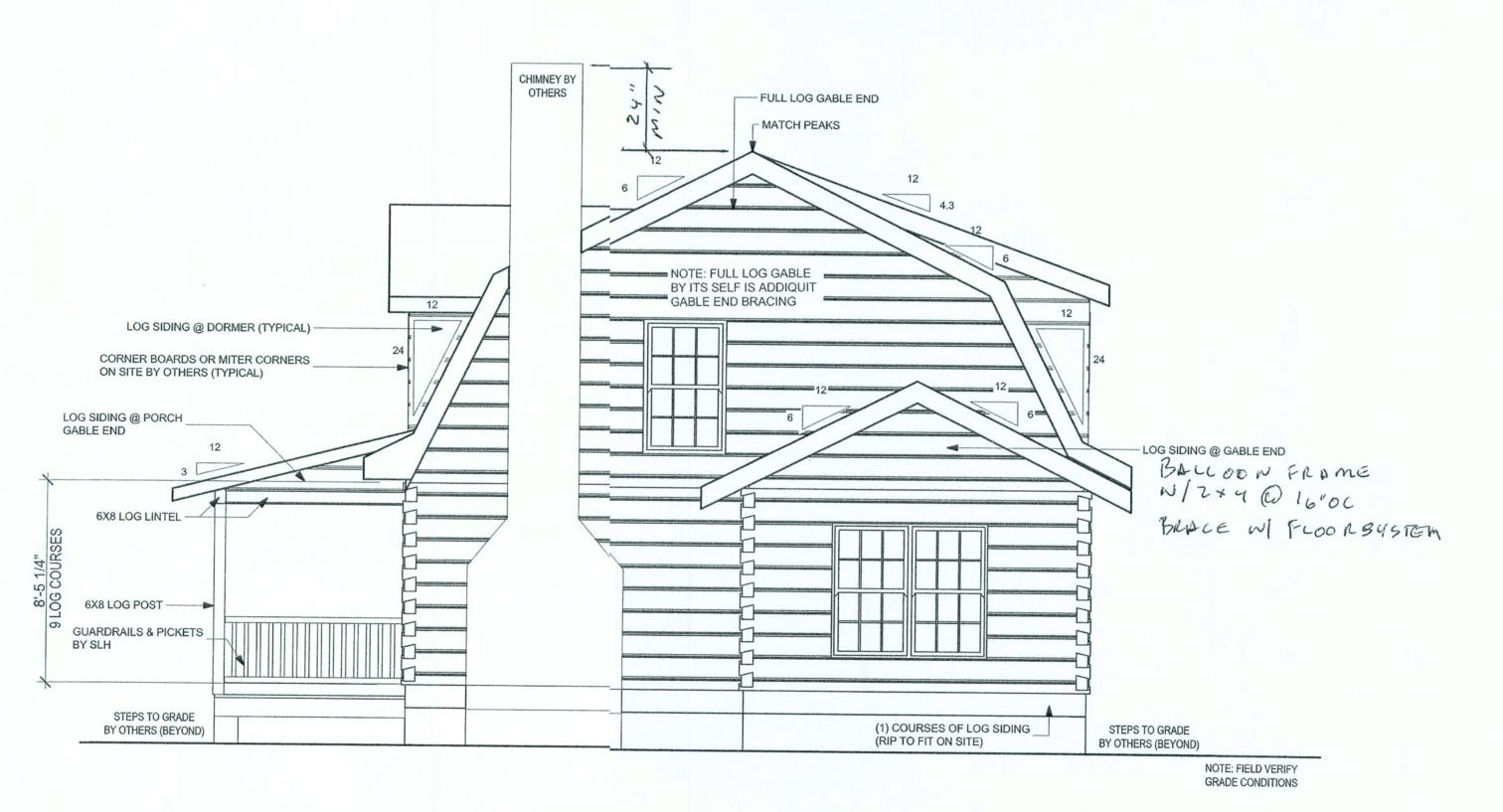
WORK ORDER # L-7852





PO BOX 1668, HIGHWAY 176 @ I-26 IRMO, SOUTH CAROLINA 29063-1668 (803) 781-5100 (LOCAL) 1-800-845-3555 (USA)





RIGHT ELEVATION

GENERAL ELEVATION NOTES:

ALL EXTERIOR WOOD DOOR TRIM AND EXTERIOR NON-RADIUS WOOD WINDOW TRIM TO BE PROVIDED BY SOUTHLAND LOG HOMES. EXTERIOR TRIM FOR CLAD DOORS, CLAD WINDOWS, AND ANY RADIUS WINDOW TO BE PROVIDED BY OTHERS.

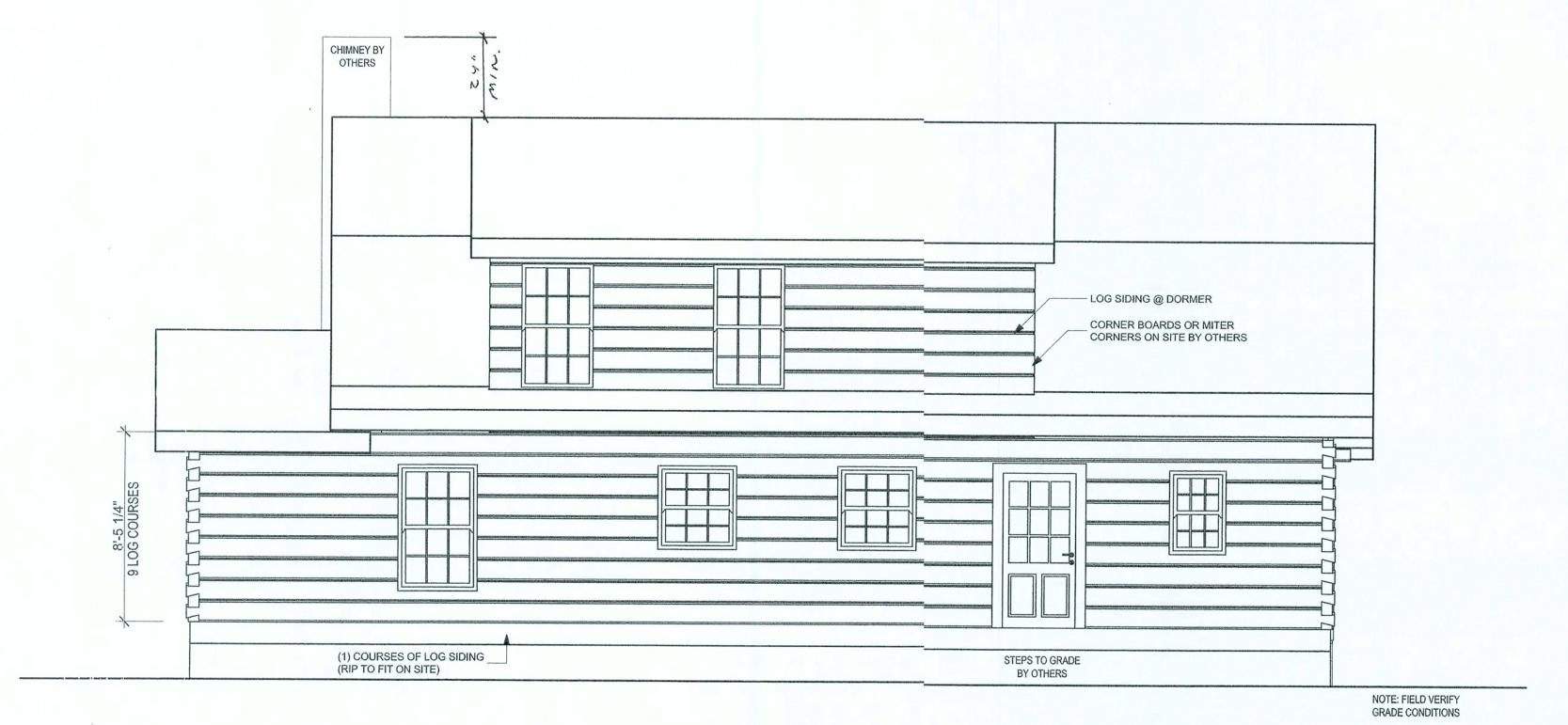
NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

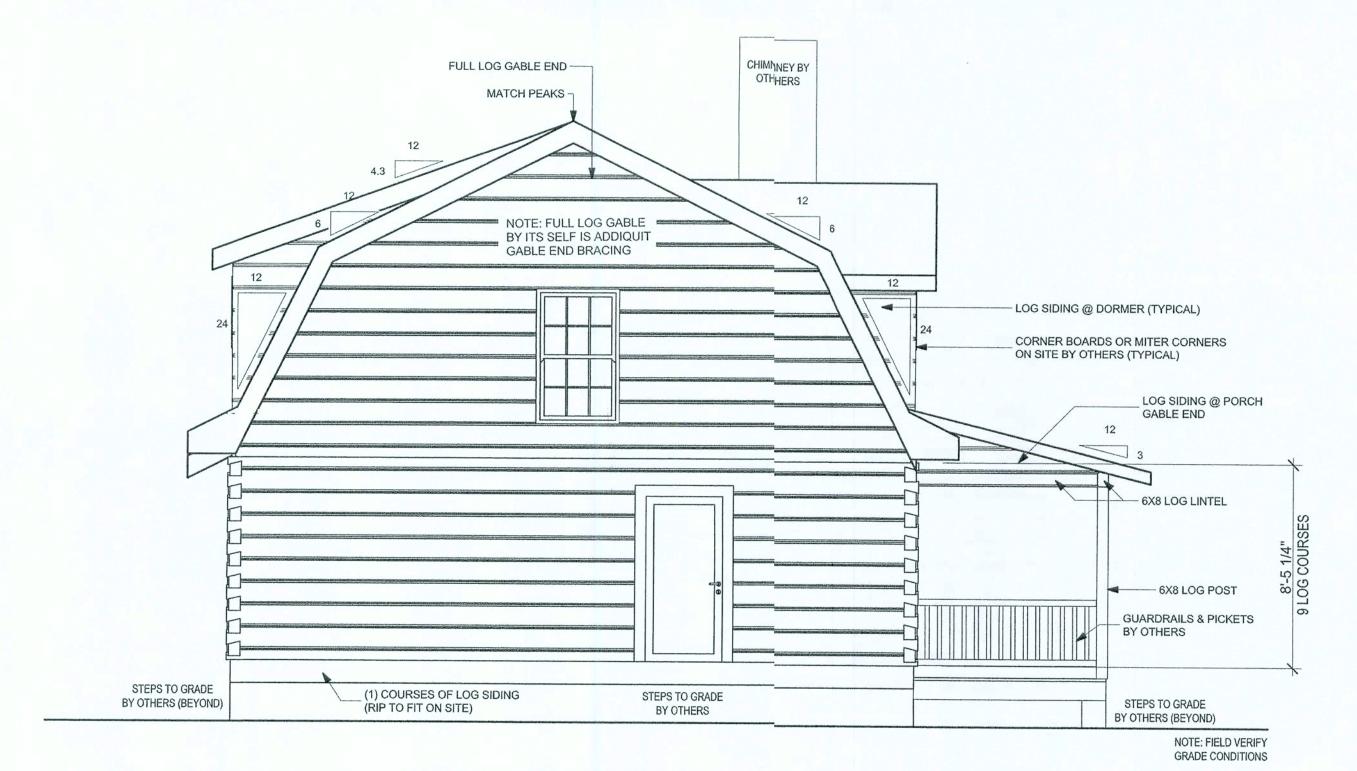
REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS

12/12/2005 3:41 PM ARCHICAD VERSION 8.1

ADDRESS: 1148 S.W. OLD BELLAMY RD HIGH SPRINGS, FL. 32643 MODEL: CUSTOM DESIGNED BY: **GBR** CHECKED BY: PLAN DATE: 11/03/05 DELIVERY DATE: 12-22-05 0601444 PROJECT NUMBER



# REAR ELEVATION



LEFT ELEVATION

1/4" = 1'-0"

GENERAL ELEVATION NOTES: ALL EXTERIOR WOOD DOOR TRIM AND EXTERIOR NON-RADIUS WOOD WINDOW TRIM TO BE PROVIDED BY SOUTHLAND LOG HOMES. EXTERIOR TRIM FOR CLAD DOORS, CLAD WINDOWS, AND ANY RADIUS WINDOW TO BE PROVIDED BY OTHERS.

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

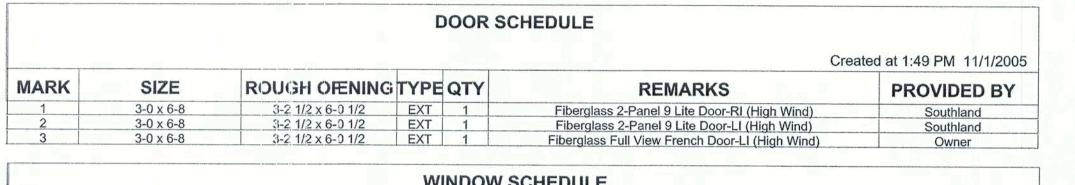
REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS

12/12/2005 3:42 PM ARCHICAD VERSION 8.1

ADDRESS: 1148 S.W. OLD BELLAMY RD HIGH SPRINGS, FL. 32643 MODEL: CUSTOM DESIGNED BY: GBR CHECKED BY: WKS 11/03/05

DELIVERY DATE: 12-22-05

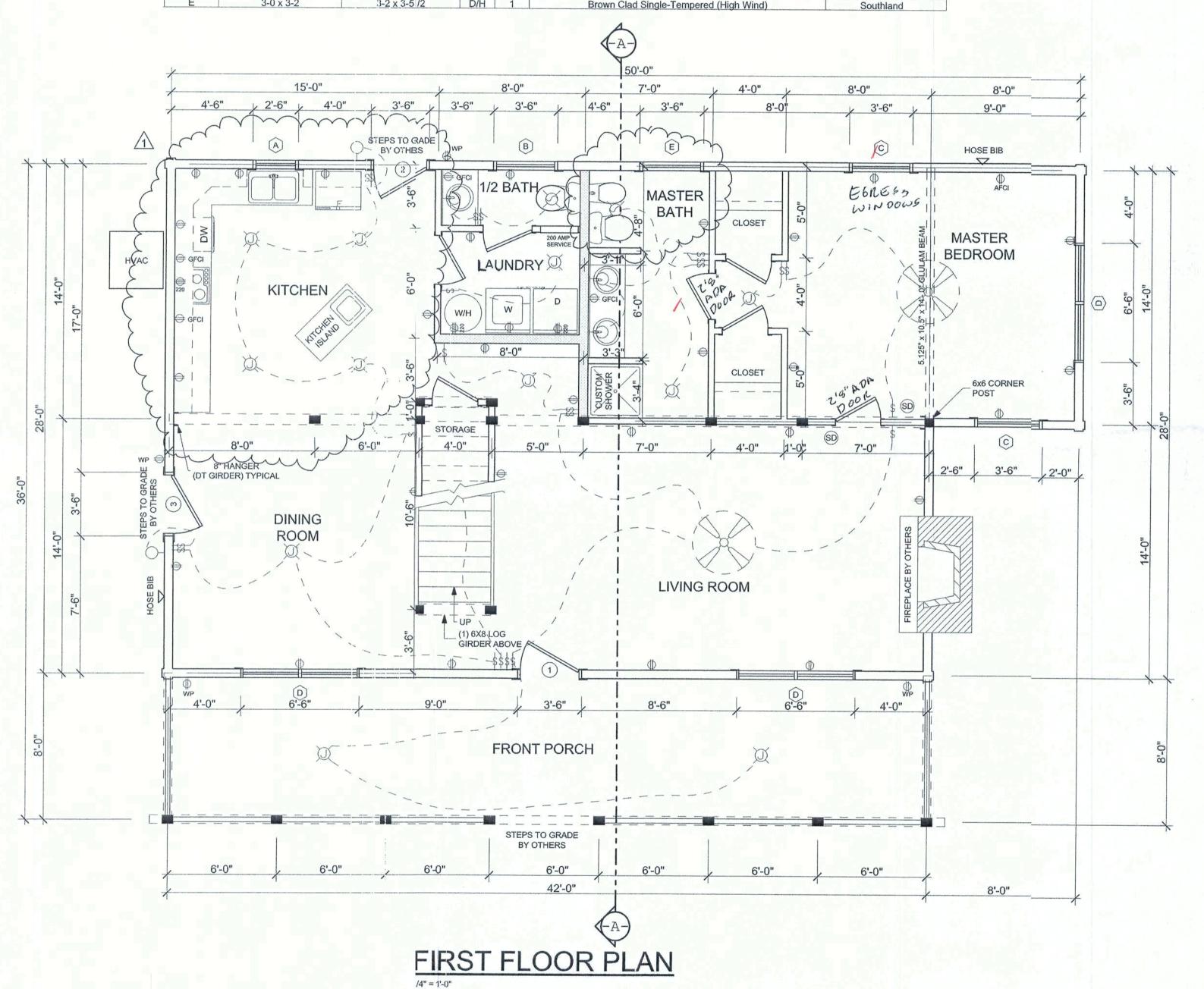
0601444 PROJECT NUMBER



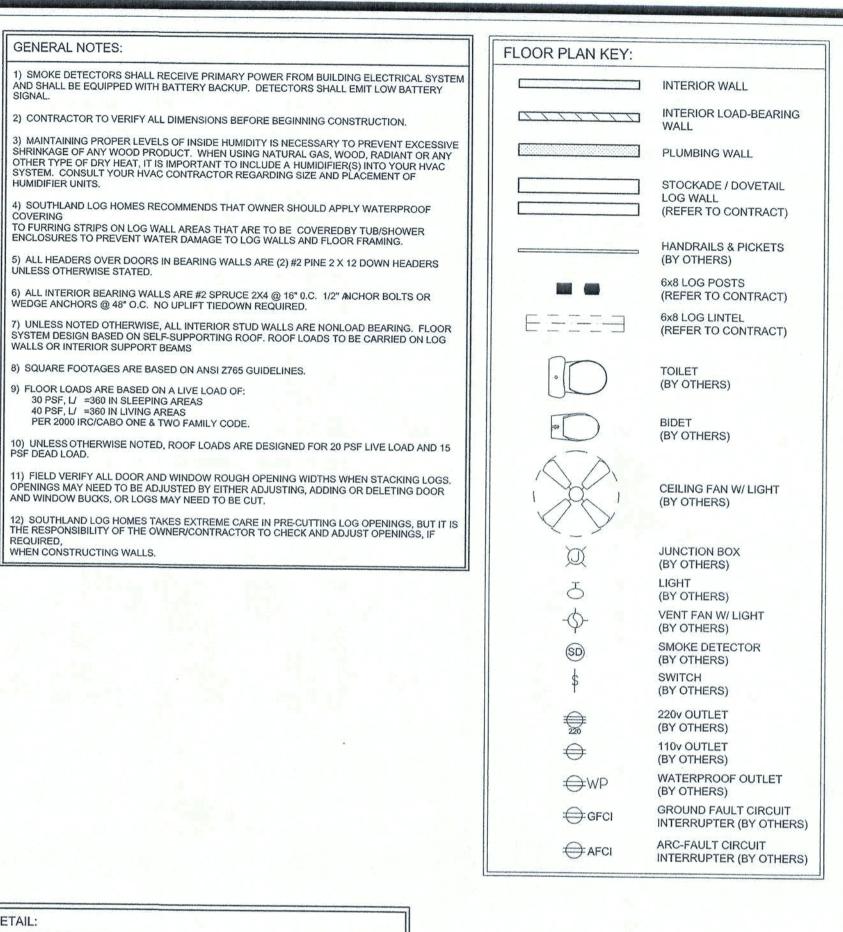
|      |           |                 | • •  | INDOW S | CHEDOLE                       |                              |
|------|-----------|-----------------|------|---------|-------------------------------|------------------------------|
|      |           |                 | 7    |         |                               | Created at 1:50 PM 11/1/2005 |
| MARK | SIZE      | ROUGH OFENING   | TYPE | QTY     | REMARKS                       | PROVIDED BY                  |
| A    | 2-0 x 3-2 | 2-2 x 3-51/2    | D/H  | 1       | Brown Clad Single (High Wind) | Southland                    |
| В    | 3-0 x 3-2 | 3-2 x 3-51/2    | D/H  | 1 1     | Brown Clad Single (High Wind) | Southland                    |
| С    | 3-0 x 5-2 | 3-2 x 5-5 /2    | D/H  | 2       | Brown Clad Single (High Wind) | Southland                    |
| D    | 3-0 x 5-2 | 6-3 3/8 x 5-1/2 | D/H  | 3       | Brown Clad Twin (High Wind)   | Southland                    |
|      | 20422     | 2242512         | DILL | 4       | D 01 101 1 7 1/11 ( NO. 1)    |                              |

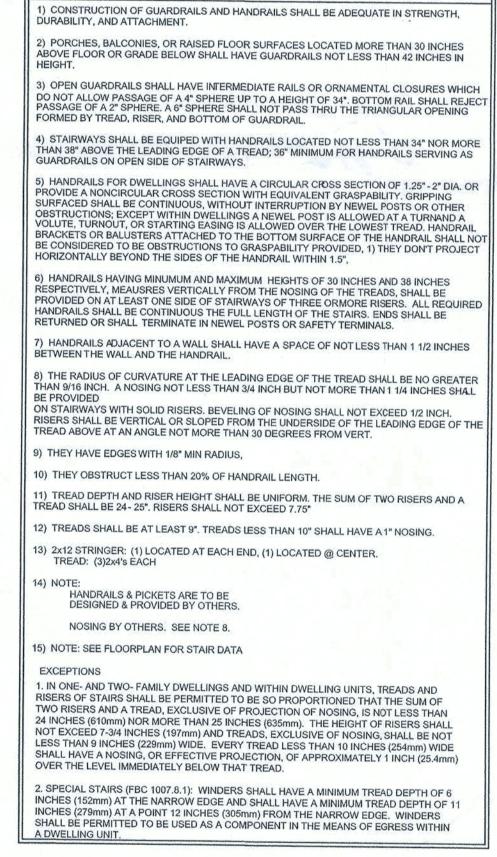
| HEATED AREAS:     |      |       |    |
|-------------------|------|-------|----|
| FIRST FLOOR       | 1333 | Sq.   | Ft |
| SECOND FLOOR      | 1076 | Sq.   | Ft |
| TTOTAL HEATED     | 2409 | Sq.   | Ft |
| UJNHEATED AREAS:  |      |       |    |
| PORCH(ES)         | 335  | Sq.   | Ft |
| STORAGE           | 48   | Sq.   | Ft |
| Trotal unheated   | 383  | Sq.   | Ft |
| Trotal under roof | 2792 | Sq. I | Ft |

PROVIDED BY SOUTHLAND 14 RISERS @ +- 7 5/16" 13 TREADS @ 10" MIN. 6x12 DOVETAIL-EWP SUNDRY ITEMS ARE INCLUDED IN YOUR LOG HOME PACKAGE



STRAIGHT-STAIRS TO SECOND FLOOR FLOOR/FLOOR HEIGHT= 8'-6 3/4"





**GENERAL NOTES:** 

WALLS OR INTERIOR SUPPORT BEAMS

40 PSF, L/ =360 IN LIVING AREAS

PSF DEAD LOAD.

STAIR DETAIL:

REQUIRED, WHEN CONSTRUCTING WALLS.

FLOOR LOADS ARE BASED ON A LIVE LOAD OF: 30 PSF, L/ =360 IN SLEEPING AREAS

PER 2000 IRC/CABO ONE & TWO FAMILY CODE.

AND WINDOW BUCKS, OR LOGS MAY NEED TO BE CUT.

NODEL:

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS

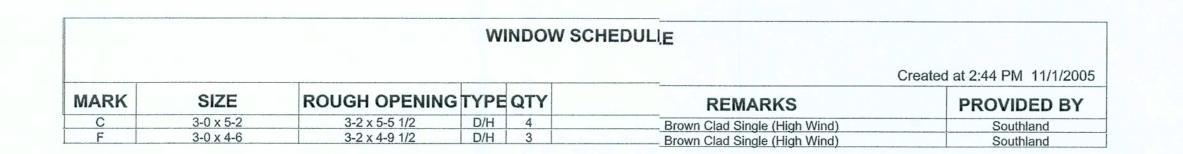
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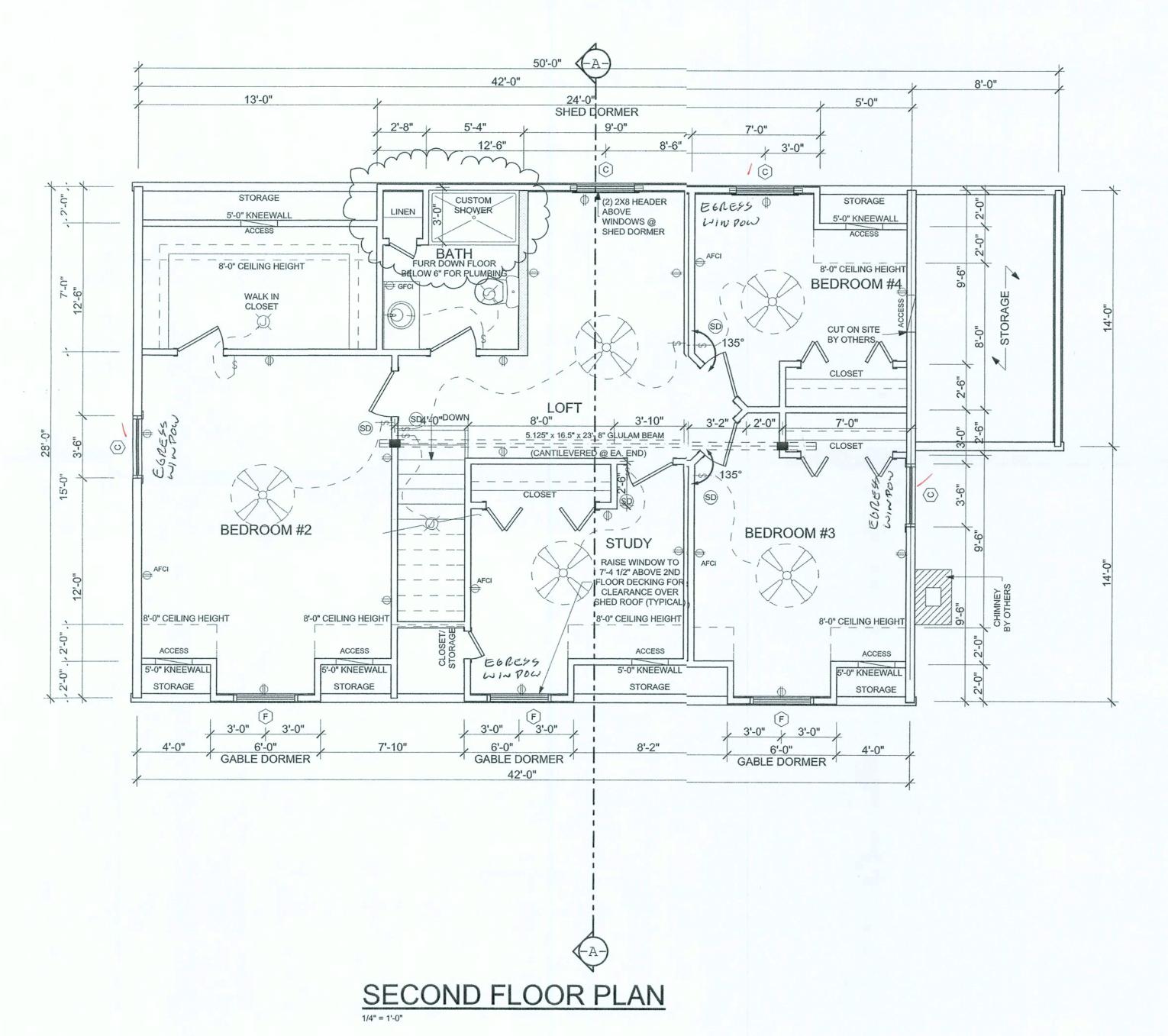
CUSTOM

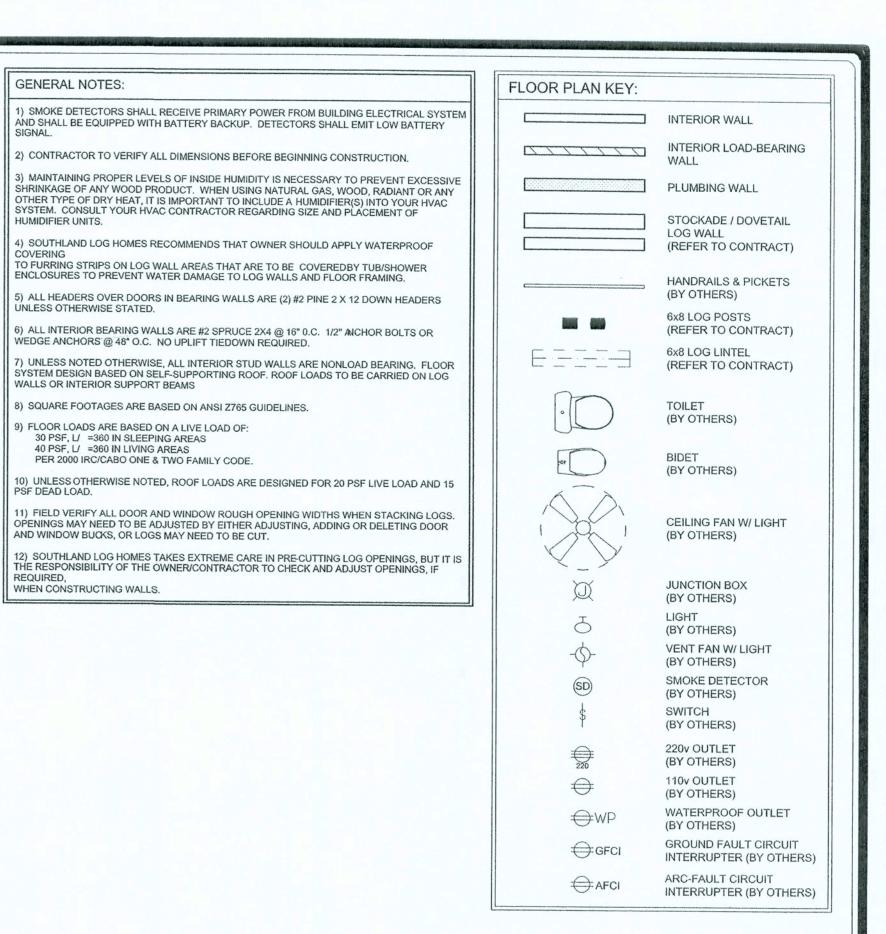
DESGNED BY:

CHECKED BY:

11/03/05 DELIVERY DATE: 12-22-05







25

ADDRESS: 1148 S.W. OLD BELLAMY RD HIGH SPRINGS, FL. 32643

Southland Log Homes

MODEL: CUSTOM

DESIGNED BY: GBR

1/03/05

DELIVERY DATE: 12-22-05

0601444

PROJECT NUMBER

2.2

GENERAL NOTES:

HUMIDIFIER UNITS.

UNLESS OTHERWISE STATED.

WHEN CONSTRUCTING WALLS.

WEDGE ANCHORS @ 48" O.C. NO UPLIFT TIEDOWN REQUIRED.

8) SQUARE FOOTAGES ARE BASED ON ANSI Z765 GUIDELINES.

9) FLOOR LOADS ARE BASED ON A LIVE LOAD OF:

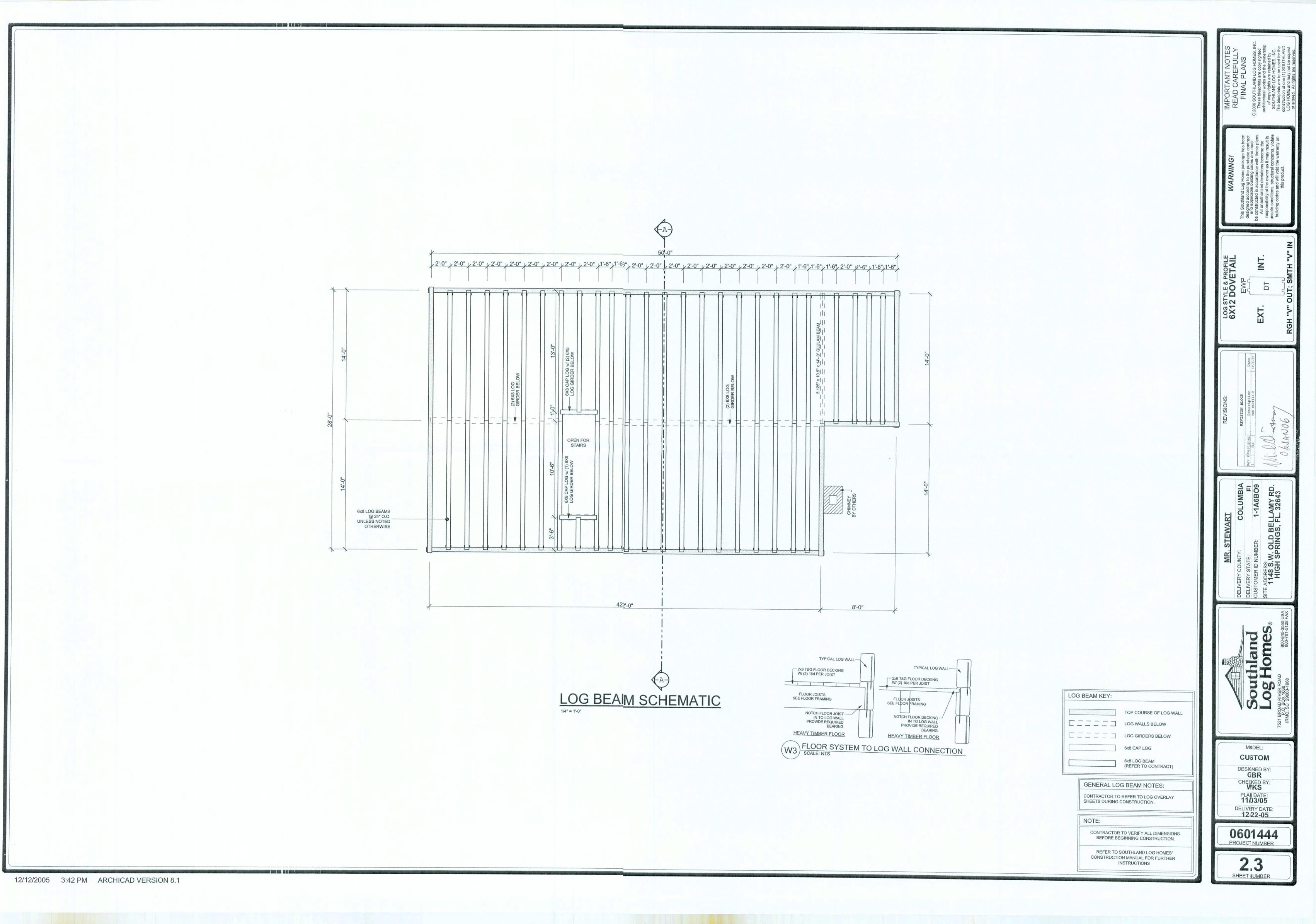
30 PSF, L/ =360 IN SLEEPING AREAS 40 PSF, L/ =360 IN LIVING AREAS PER 2000 IRC/CABO ONE & TWO FAMILY CODE.

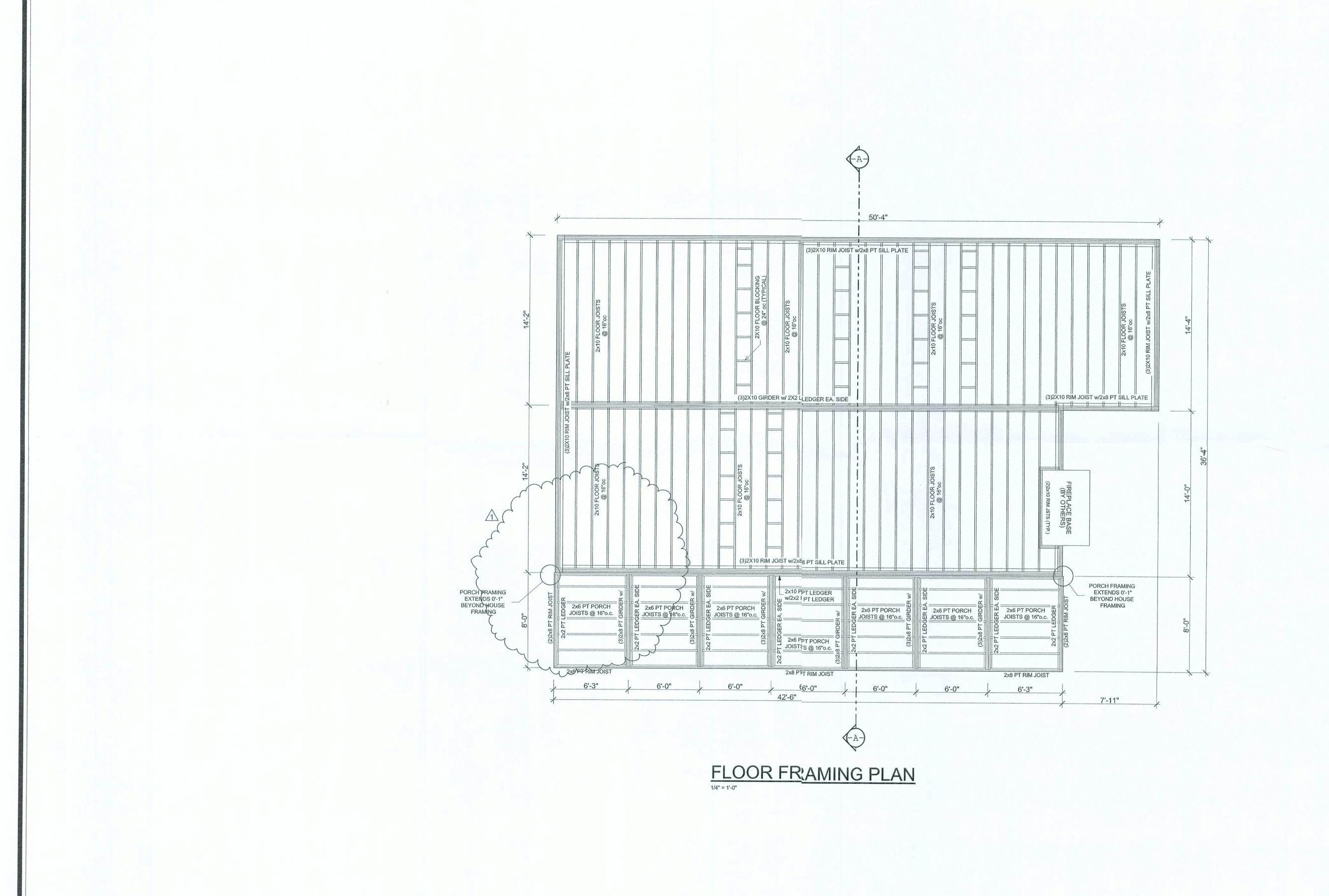
2) CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS





GENERAL FLOOR FRAMING NOTES: PROVIDE SOLID BLOCKING BENEATH ALL LOG POSTS. PROVIDE BLOCKING AT MIDSPAN FOR ALL LOG JOISTS 10'-0" LONG AND LONGER. PROVIDE DOUBLE JOISTS OR PERPENDICULAR BLOCKING @ 24" O.C. BENEATH ALL STUD WALLS RUNNING PARALLEL TO FLOOR JOISTS. 4.) CRAWL SPACE HEIGHT TO BE A MINIMUM OF 18" FROM BOTTOM OF FLOOR JOIST TO TOP OF FINISH GRADE OR PER LOCAL CODE - WHICHEVER IS GREATER. 5.) DROP PORCH AND DECK PIER HEIGHT SO THAT TOP OF DECKING IS 5 5/8" BELOW MAIN HOUSE CUSTOM SUBFLOOR. 6.) FLOOR SYSTEM DESIGN BASED ON SELF-SUPPORTING ROOF. ALL ROOF LOADS TO BE CARRIED ON LOG WALLS, UNLESS NOTED OTHERWISE. DESIGNED BY: GBR

ADDRESS: 1148 S.W. OLD BELLAMY RD HIGH SPRINGS, FL. 32643

Southland Log Homes

MODEL:

PLAN DATE: 11/03/05

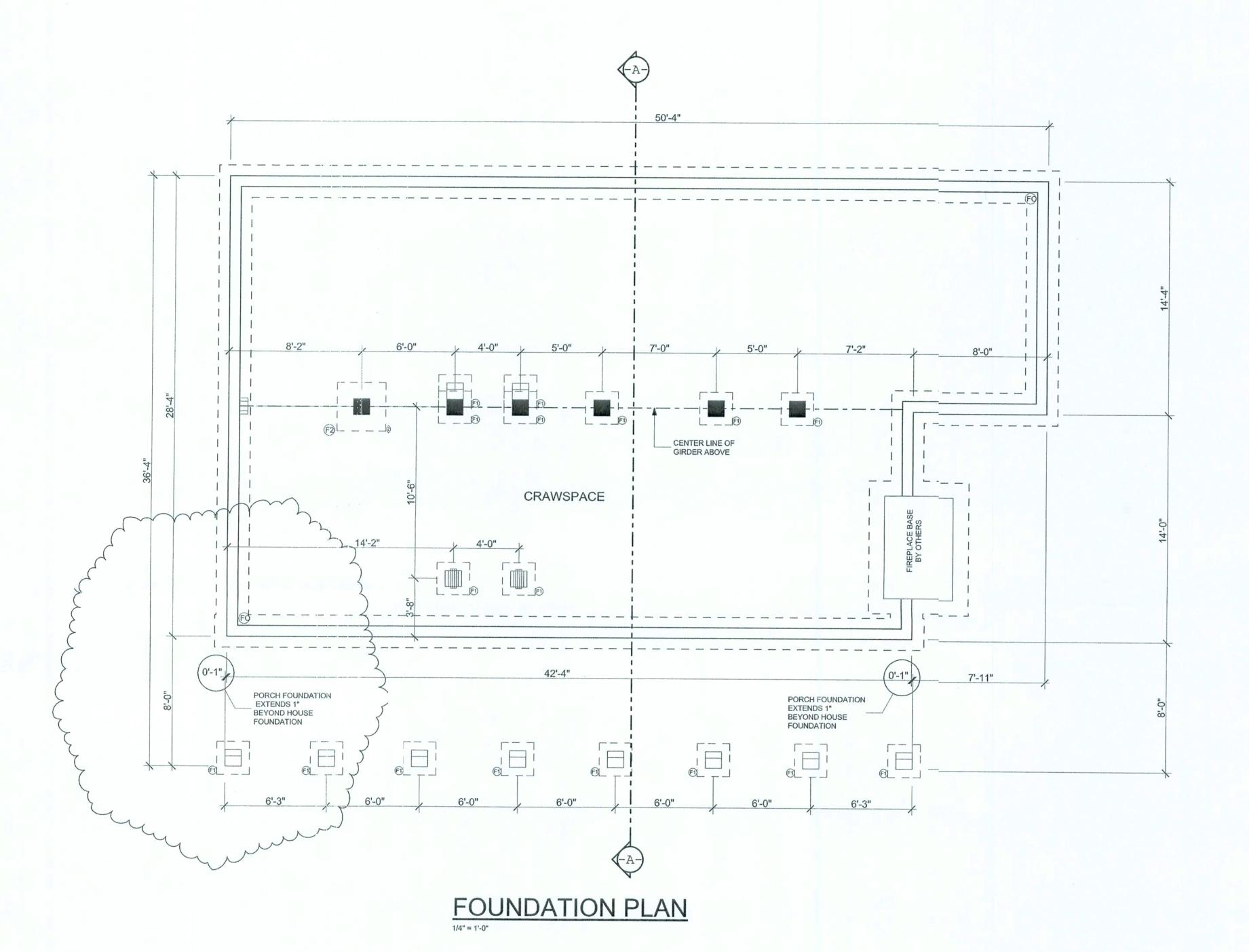
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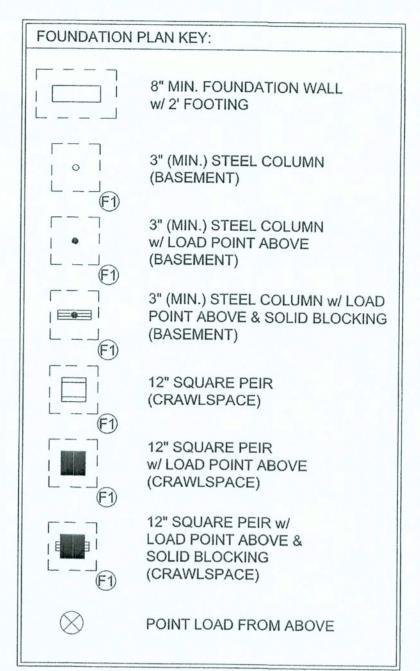
0601444 PROJECT NUMBER

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

7.) ALL FASTENERS THAT WILL BE IN CONTACT WITH TREATED LUMBER MUST BE NO LESS THAN A HOT DIPPED GALVANIZED COATING.

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS





GENERAL CRAWLSPACE NOTES:

.) SOIL BEARING PRESSURE IS ASSUMED TO BE A MINIMUM OF 2000 PSF. IF SOIL CONDITIONS ARE FOUND TO BE LESS THAN THE ASSUMED, CONTACT A LOCAL STRUCTURAL ENGINEER FOR A RE-EVALUATION OF FOUNDATION PLAN.

2.) 8" x 16" CMU PIERS MAY BE USED INSTEAD OF 12" x 12". ADJUST FOOTING SIZE AND REBAR NUMBER ACCORDINGLY.

S.) DROP PORCH AND DECK PIER HEIGHT SO THAT TOP OF DECKING IS 5 5/8" BELOW MAIN HOUSE SUBFLOOR.

.) FIREPLACE DIMENSIONS AND SPECIFICATIONS TO BE VERIFIED WITH OWNER BEFORE CONSTRUCTION.

.) 12" x 12" FOUNDATION PIERS WITH 24" x 24" CONCRETE FOOTINGS ARE SHOWN. REINFORCE FOOTING WITH (3) #5 REBARS EACH WAY. 8" x 16" CMU PIERS MAY BE USED INSTEAD OF 12" x 12". ADJUST FOOTING SIZE AND REBAR NUMBER ACCORDINGLY.

5.) FOR REBAR PLACEMENT IN EXTERIOR FOUNDATION WALL FOOTING SEE "FOUNDATION/ BASEMENT" IN THE CONSTRUCTION DETAIL SHEETS.

.) ALTHOUGH NO FOUNDATION VENTS ARE SHOWN, CONTRACTOR IS RESPONSIBLE FOR LOCATING AND INSTALLING VENTS. THE MINIMUM NET AREA OF VENT OPENINGS SHALL NOT BE LESS THAN 1 SQ. FT. FOR EACH 150 SQ. FT. OF CRAWLSPACE. ONE SUCH OPENING SHALL BE WITHIN 3 FT. OF THE CORNER OF THE BUILDING. FOR EXCEPTIONS SEE SBC.

3.) CRAWL SPACE HEIGHT TO BE A MINIMUM OF 18" FROM BOTTOM OF FLOOR JOIST TO TOP OF FINISH GRADE OR PER LOCAL CODE -WHICHEVER IS GREATER.

3.) 16" x 16" FULLY GROUTED MASONARY BLOCK COLUMN REQ'D @ EA. FOUNDATION END OF THE MULTIPLE 2X10 & GLULAM GIRDERS. REINFORCE EACH CELL w/ (1) #5 REBAR MIN. BOLT WOOD SEAT ATOP COLUMN FOR GIRDER TO BEAR UPON. FOUNDATION DESIGN CRITERIA

SITE PREPARATION: SITE ANALYSIS AND PREPARATION INFORMATION IS NOT PART OF THIS PLAN AND IS RESPONSIBILITY OF THE OWNER. ALL FOUNDATIONS AND FOOTINGS ARE DESIGNED FOR STABLE SOIL CONDITIONS WITH \$1000 PSF BEARING CAPACITY. SITE INSPECTION OF SOIL CONDITIONS SHALL DETERMINE IF THERE IS ANY EVIDENCE OF UNSUITABLE BEARING MATERIALS. QUESTIONABLE MATERIALS PRESENT SHOULD CALL FOR SOILS TESTS AND ANALYSIS BY GEOTECHNICAL ENGINEER TO ASSURE THAT EXPANDING CLAYS AND OTHER PROBLEMATIC SOILS CONDITIONS DO NOT EXIST, OR TO ALLOW MITIGATION SHOULD THEY EXIST. ALL FILL UNDER STRUCTURAL ELEMENTS SHALL BE CLEAN SAND/SOIL FILL, FREE FROM DEPORT AND OPERANCE MATERIALS COMPACTED IN LIFTS OF THAM INCLUSES LOOSE DEBRIS AND ORGANIC MATERIALS COMPACTED IN LIFTS OF NOT MORE THAN 6 INCHES, LOOSE MEASURE. IT IS THE OWNER'S / BUILDER'S RESPONSIBILITY TO VERIFY EXISTING SOIL AND CLEAN FILL ARE COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER THE MODIFIED PROCTOR TEST AND PROVIDE 1000 PSF MINIMUM BEARING CAPACITY OR REQUEST FOUNDATION DESIGN BASED ON ACTUAL SITE CONDITIONS.

FOUNDATION: THE OWNER HAS NOT YET PROVIDED A GEOTECHNICAL REPORT TO THE ENGINEER. ASSUMED SAFE BEARING CAPACITY OF 1000 PSF SHALL BE CONFIRMED IN THE FIELD BY A REGISTERED GEOTECHNICAL ENGINEER OR SHALL BE APPROVED BY THE OWNER. OOTINGS AND SLABS ARE TO BEAR ON FIRM UNDISTURBED EARTH OR CLEAN SAND/SOIL FILL, FREE FROM DEBRIS AND ORGANIC MATERIALS COMPACTED IN LIFTS OF NOT MORE THAN 6 INCHES, LOOSE MEASURE. WHERE UNACCEPTABLE MATERIAL OCCURS, EXCAVATE AND REPLACE WITH ENGINEERED FILL. NO FOUNDATION CONCRETE SHALL BE INSTALLED UNTIL ALL OUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. FOOTINGS HALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. TO MINIMIZE WEATHERING, THE LAST 6 INCHES OF EXCAVATION FOR ALL FOOTINGS SHALL BE MADE IMMEDIATELY PRIOR TO PLACEMENT OF FOOTINGS.

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE F'c = 3000PSI. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS SERVICABILITY IS DEGRADED, THE ATTAINMENT OF REQUIRED STRENGTH SHALL NOT RELEASE THE ONTRACTOR FROM PROVIDING SUCH MODIFICATIONS AS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A SERVICEABLE MEMBER OR SURFACE. ALL CONCRETE SHALL BE VIBRATED. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND APPROVAL OF THE ENGINEER, OWNER OR HIS REPRESENTATIVE. CONCRETE: CLASS B, MINIMUM COMPRESSIVE STRENGTH, Fc = 3000 PSI.

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

FIBER 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 WITH ASTM C 1116 WHEN REQUESTED BY THE BUILDING OFFICIAL; OR, MINIMUM COMPRESSIVE STRENGTH, Fc = 3000 PSI.

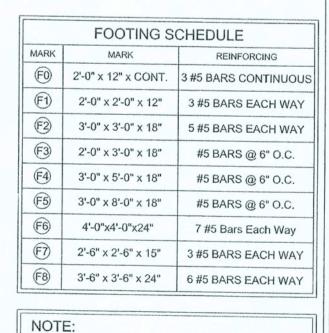
REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, FY = 60 KSI. ALL LAPS SPLICES 40 \* DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCRDANCE WITH ACI 315-95 WITH ACI 315-96 UNLESS NOTED OTHERWISE. ALL TENSION DEVELOPMENT LENGTHS SHALL BE 23 INCHES.

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

CONCRETE BLOCK: ASTM C-90 WITH MEDIUM SURFACE FINISH, F'm = 1500 PSI.

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS



0601444 PROJECT NUMBER

MOCEL:

CUSTOM

DESIGNED BY:

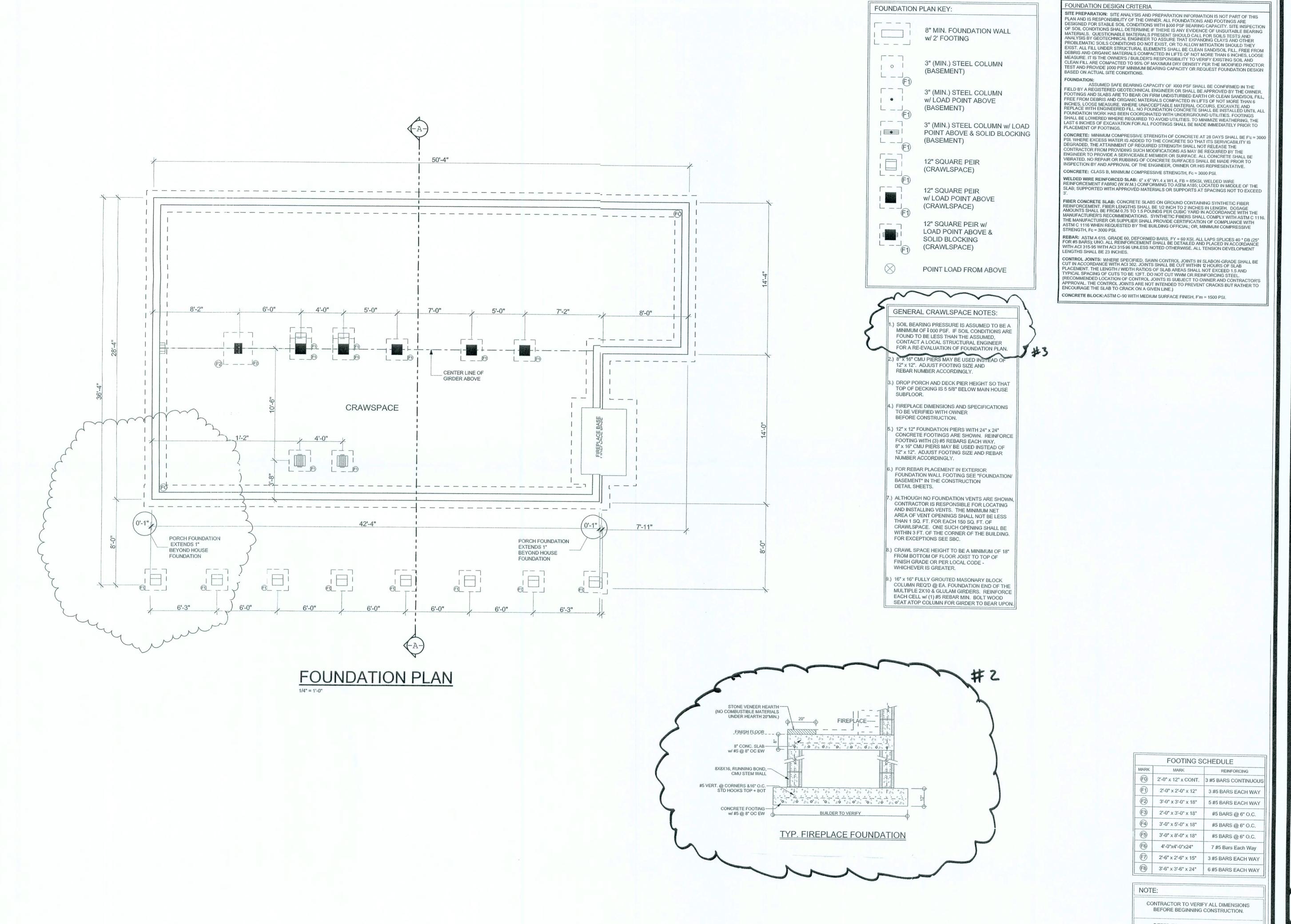
GER WKS BY:

PLAN DATE: 11/03/05

DELIVER/ DATE: 12-22-05

- B

4DDRESS: 1148 S.W. OLD BELLAMY RD HIGH SPRINGS, FL. 32643



SC

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS

MODEL:

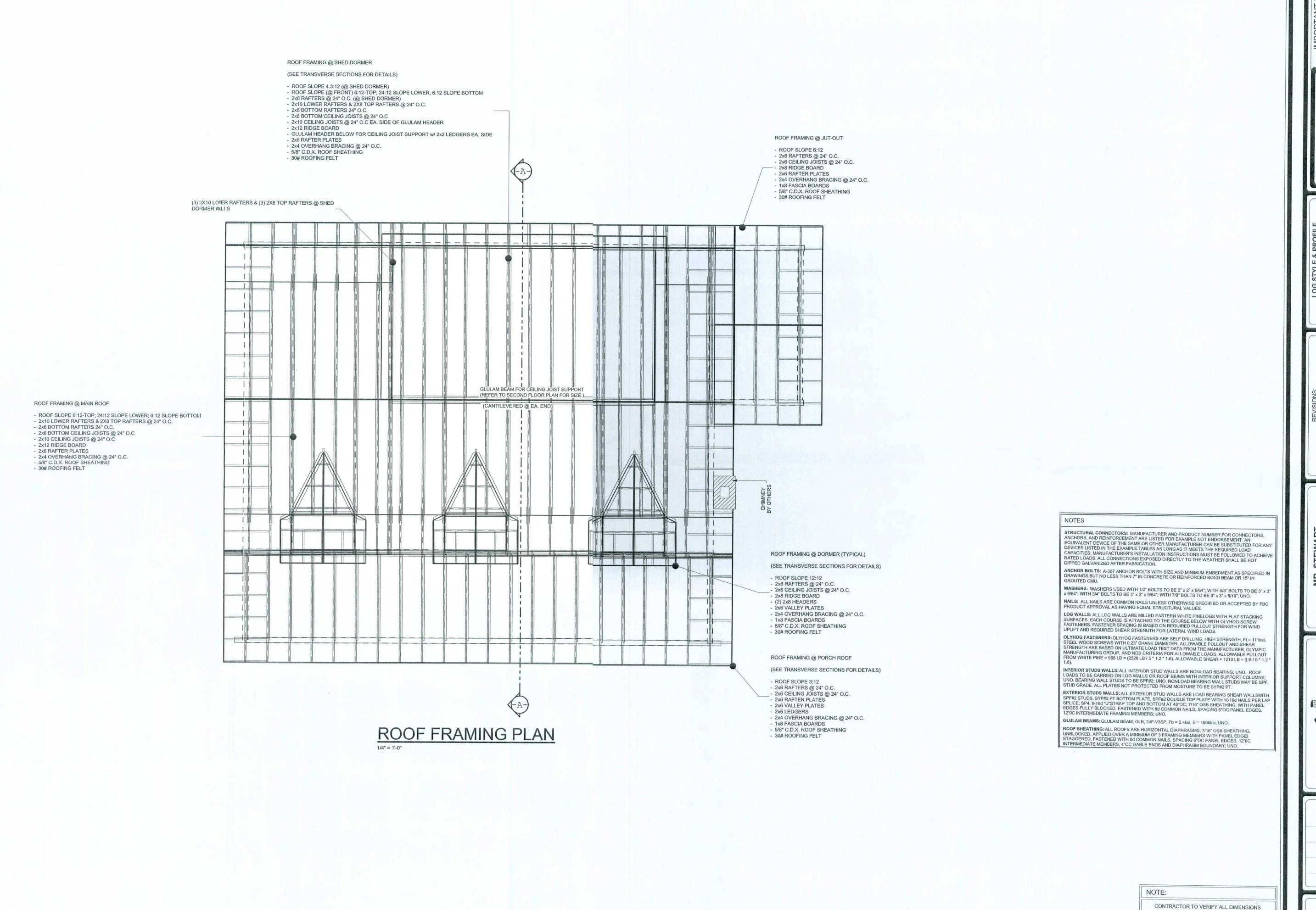
CUSTOM

DESIGNED BY:

1/03/05

DELIVERY DATE: 12-22-05

0601444



12/12/2005 3:43 PM ARCHICAD VERSION 8.1

IMPORTANT NOT
READ CAREFUL
FINAL PLANS

C 2006 SOUTHLAND LOG HOME
These blueprints are copy right architectural works and the own of copy rights are retained b SOUTHLAND LOG HOMES. I
The blueprints are to be used for construction of one (1) SOUTHL

This Southland Log Home package has been besigned according to the purchase contract and applicable building codes and must acconstructed in accordance with these plans. All unauthorized deviations become the responsibility of the owner as it may result in insafe conditions, structural concerns, violate building codes and will void the warranty on this product.

MT, All unauthorize
responsibility of th
unsafe conditions,
building codes ar
th

EXT. DT II

Rev # Designer Description Da

Try Per 0601444-2 12

October

ADDRESS:

ADDRESS:

ALTHR S.W. OLD BELLAMY RD
HIGH SPRINGS, FL. 32643

DELIVERY COUNTY:
DELIVERY STATE:
CUSTOMER ID NUMBER:
SITE ADDRESS:
1148 S.W. OL

Southland Log Homes

MODEL:

CUSTOM

DESIGNED BY:

GBR

CHECKED BY:

GBR
CHECKED BY:
WKS
PIAN DATE:
11/03/05
DELVERY DATE:

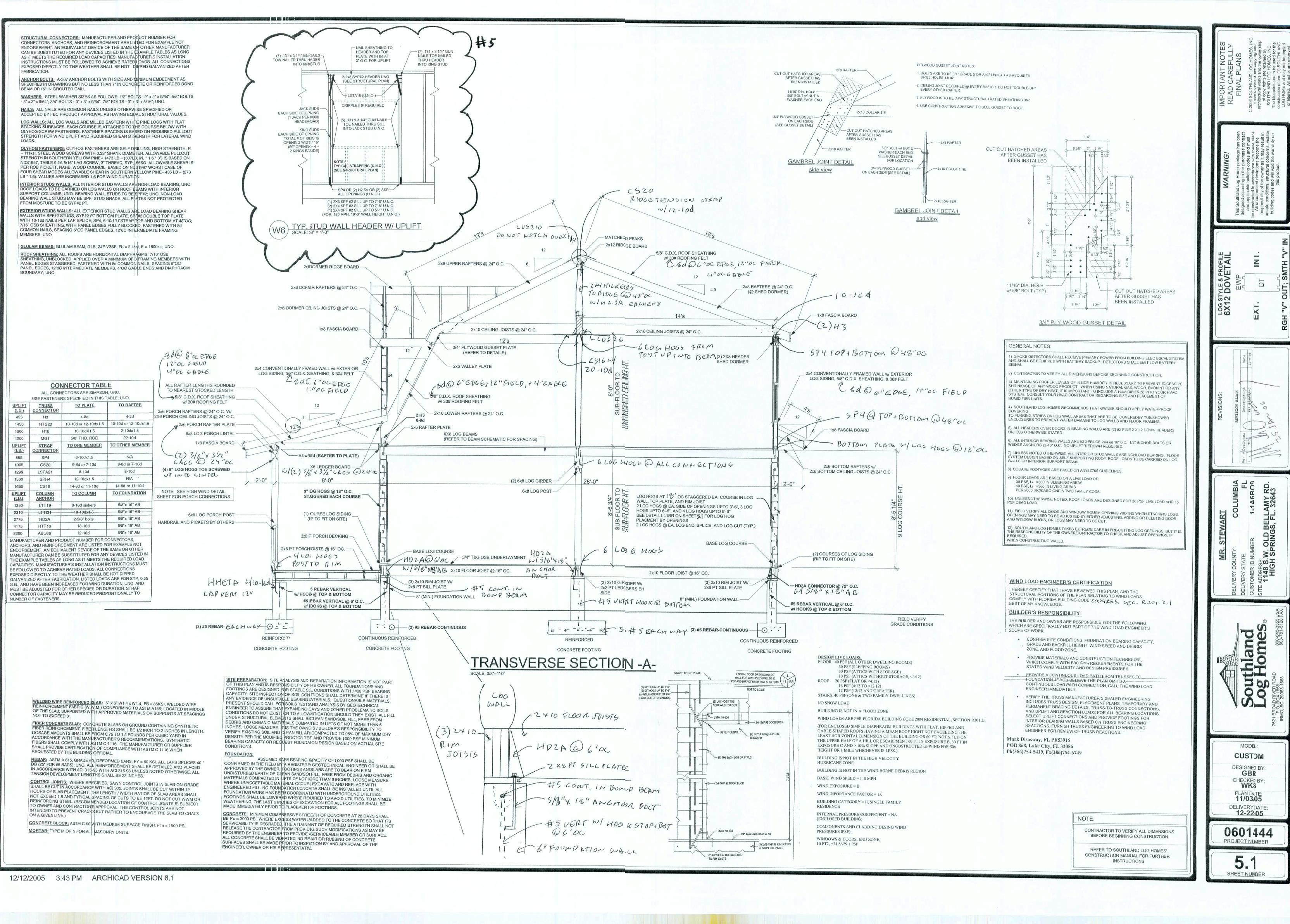
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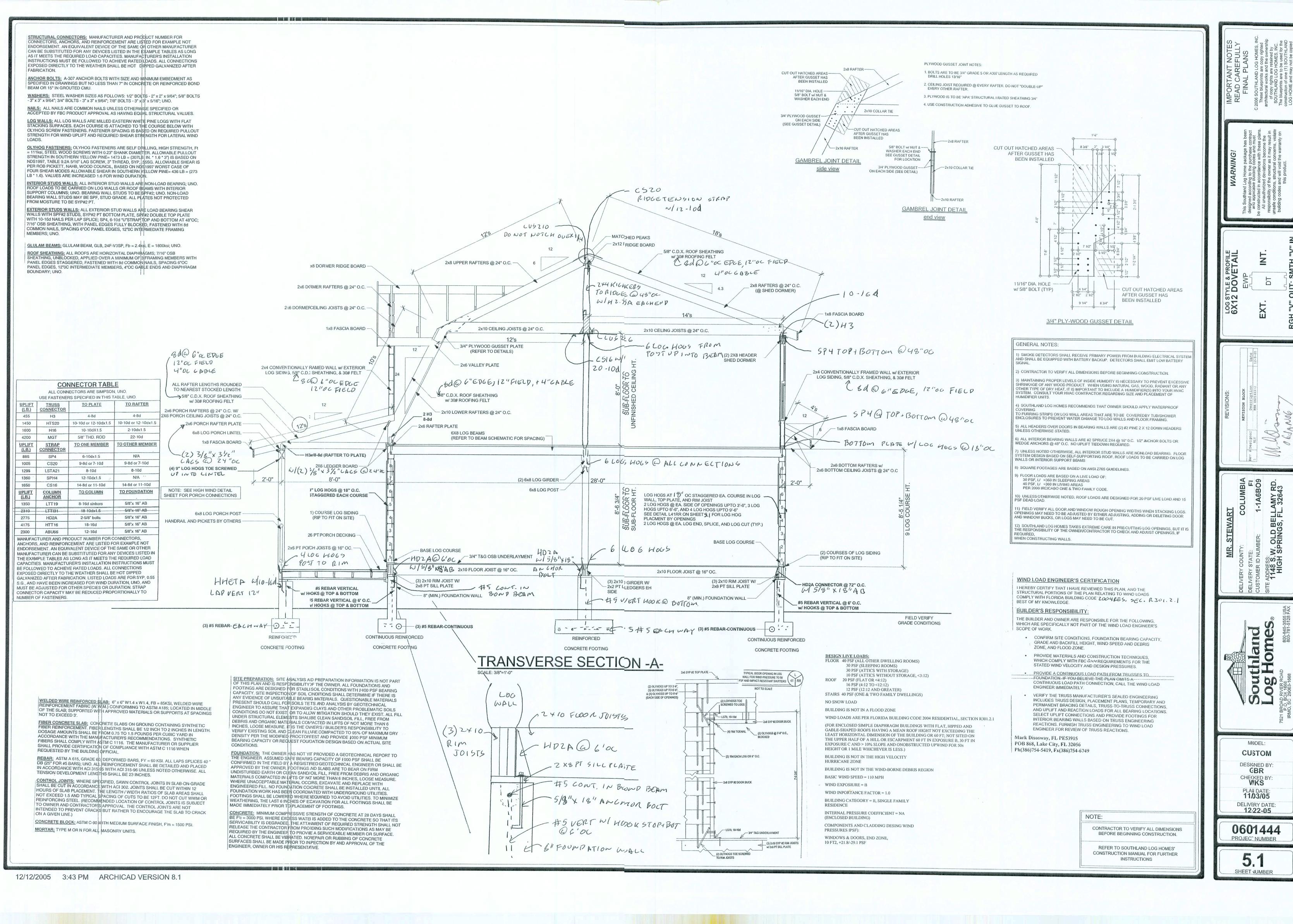
BEFORE BEGINNING CONSTRUCTION.

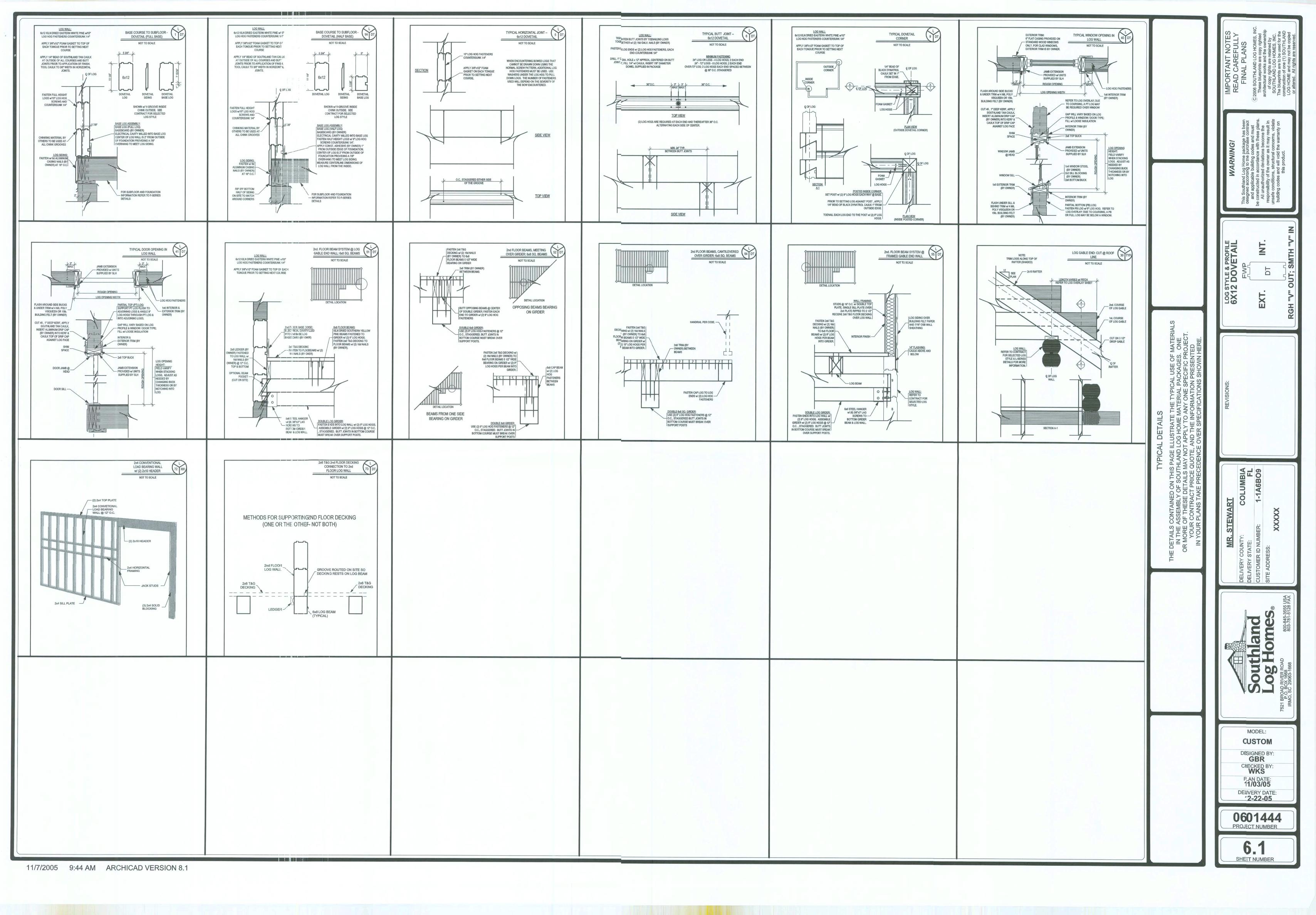
REFER TO SOUTHLAND LOG HOMES'
CONSTRUCTION MANUAL FOR FURTHER
INSTRUCTIONS

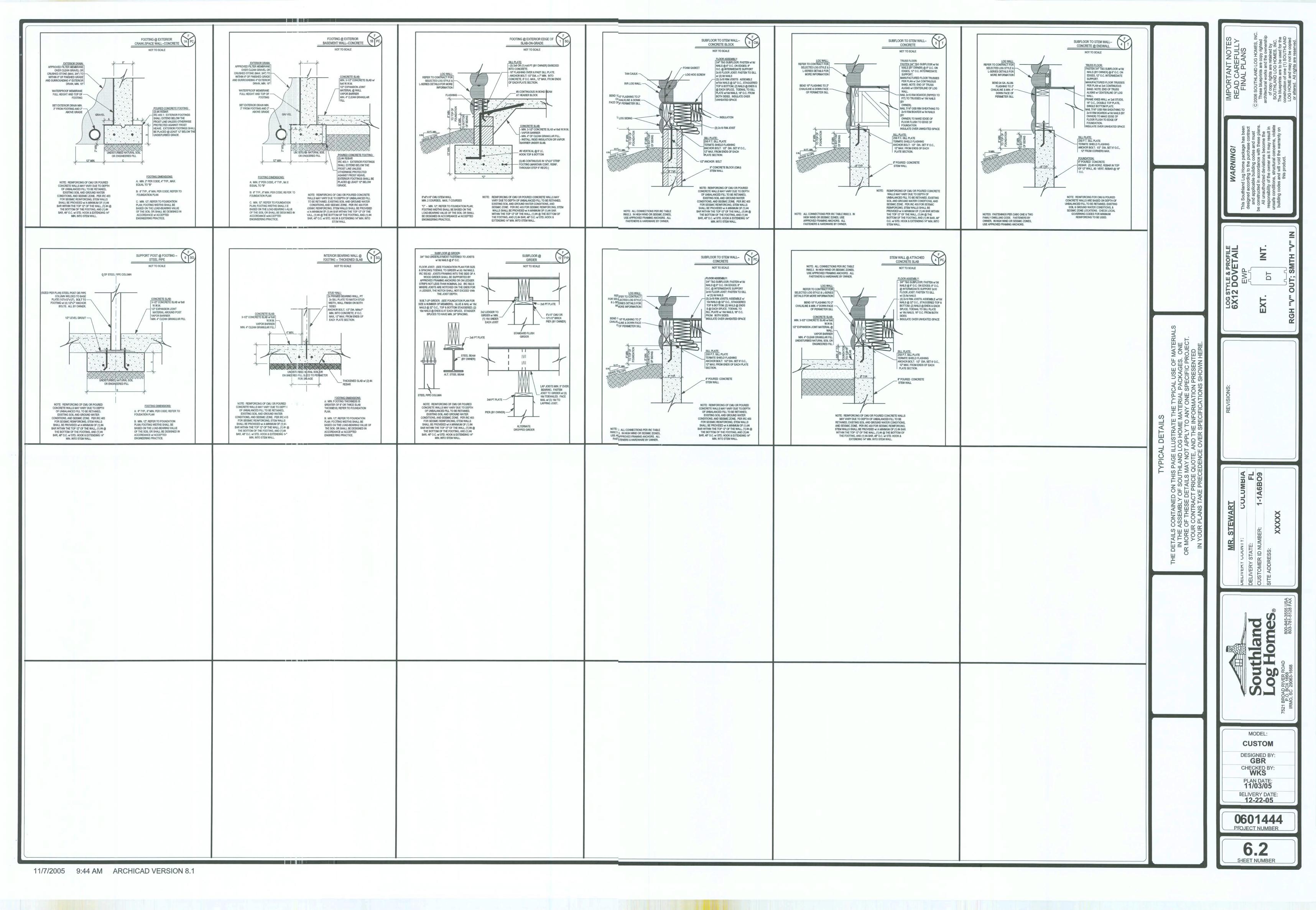
12-22-05

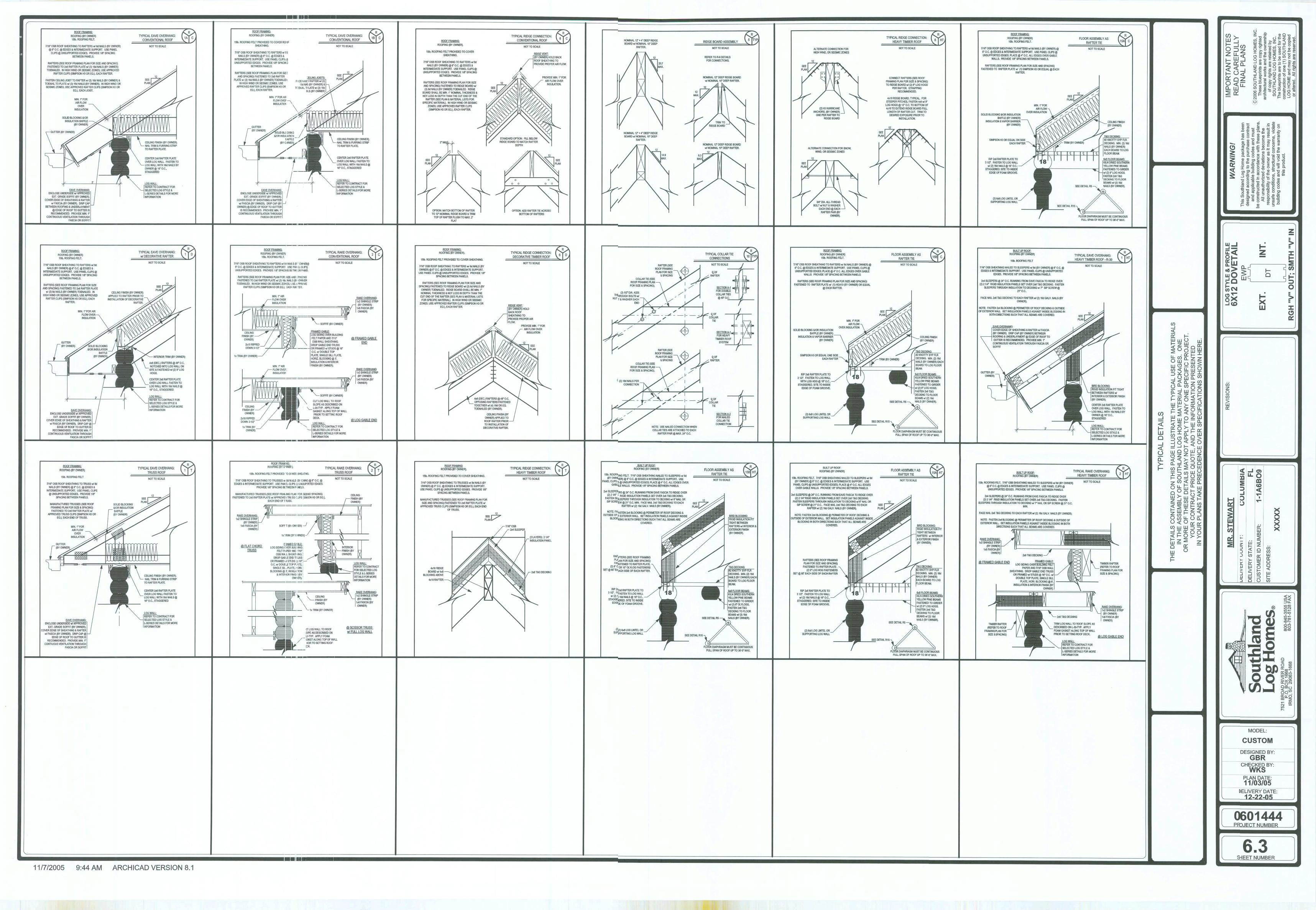
4.1

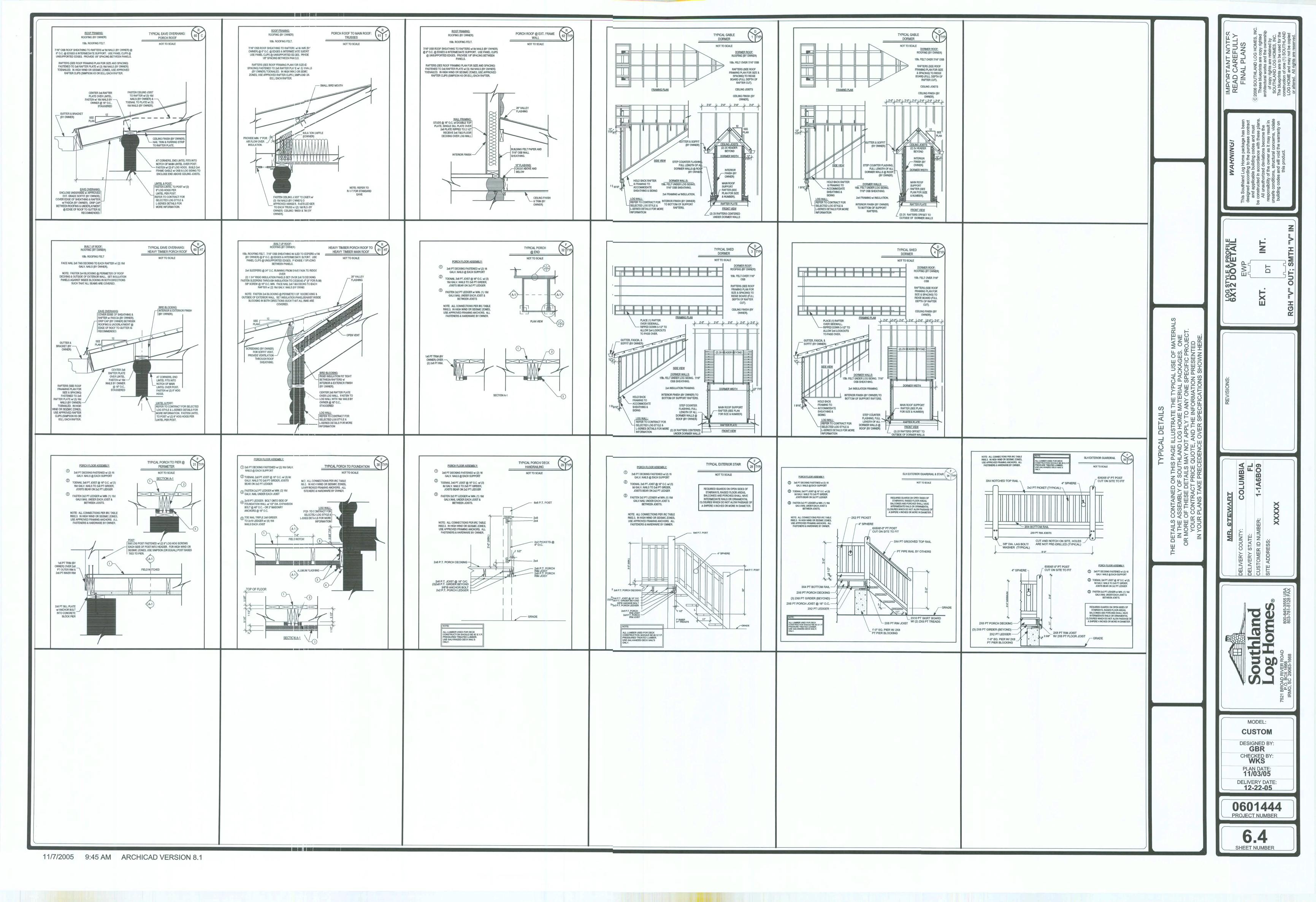


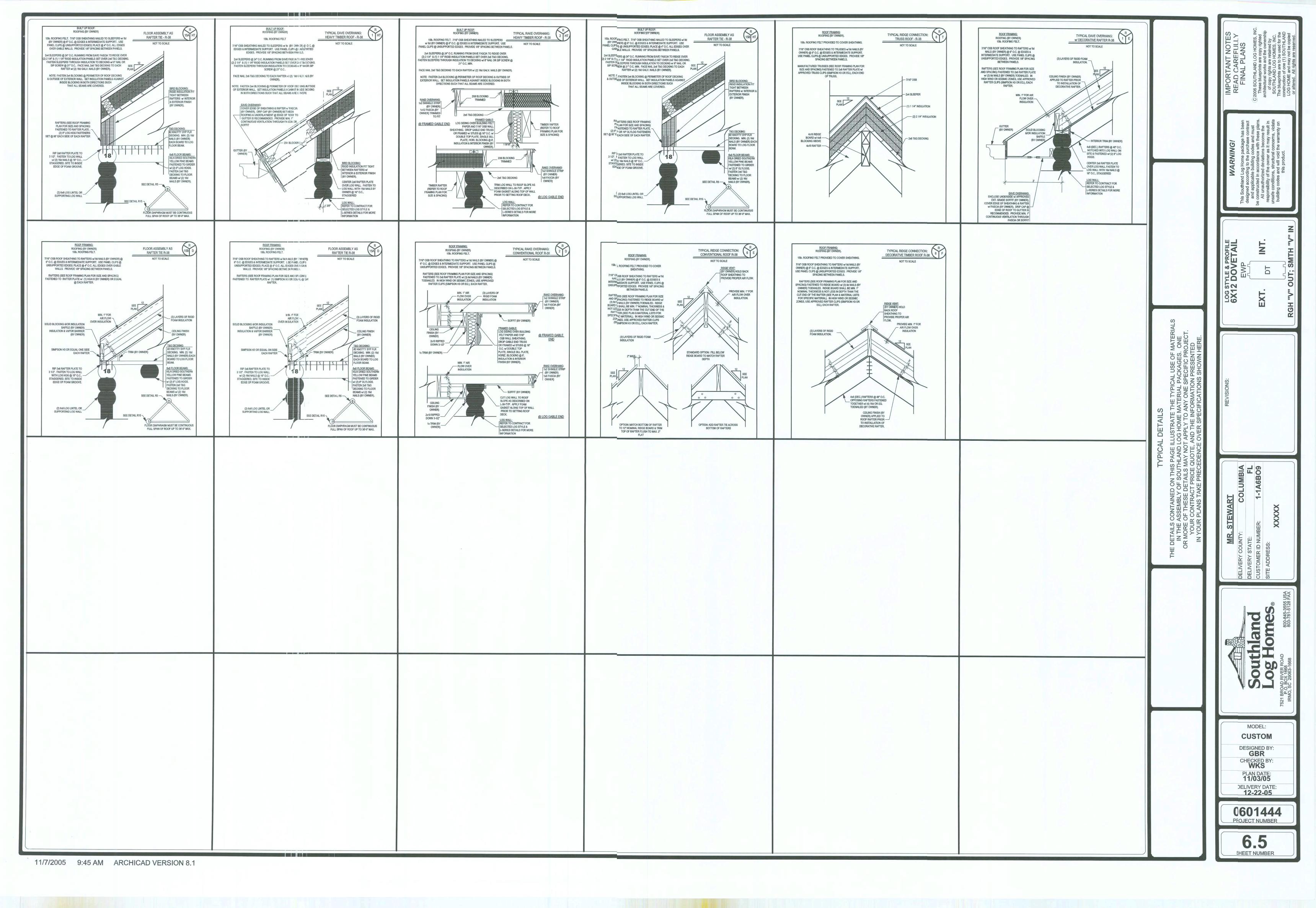


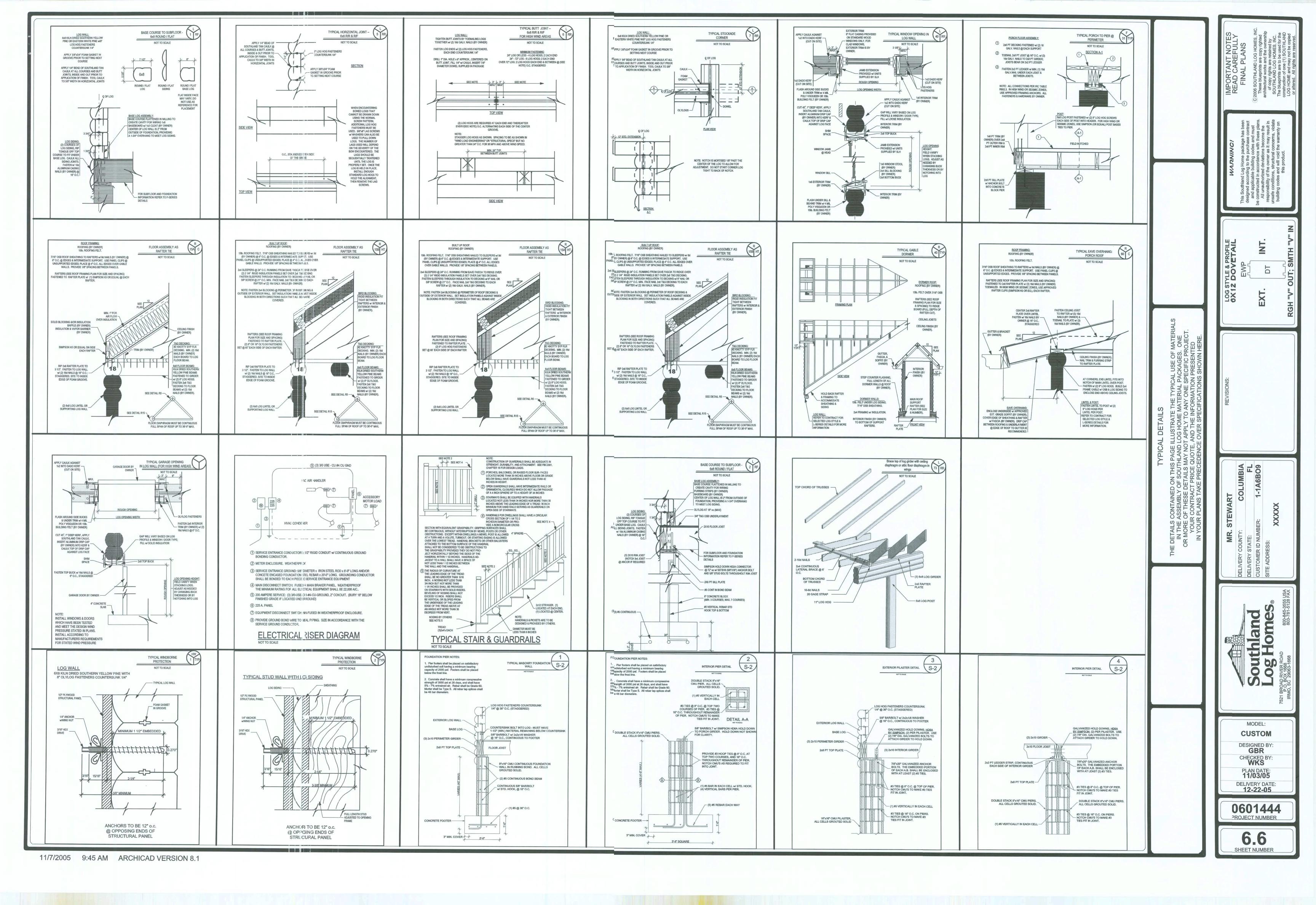












ITS Intertek Testing Services

# Test Data Review Certificate Certificate #3026447B

This certifies that Intertek Testing Services/ETL Semko has reviewed structural load test data and documentation supplied by Masonite/Premdor Exterior Door Products on the product lines indicated below to determine the appropriate design load and impact ratings as specified by Miami-Dade County, Florida Protocol PA201, PA202 and PA203.

The data supplied was reviewed for applicability in support of the data contained in the Masonite/Premdor Product Performance Data Manual for the product line and product models indicated below. ITS/ETL Semko certifies that the test reports provided are consistent with the Masonite Certificate of Performance sheets (COP's) contained in the product performance data manual specified herein. The attached Masonite/Premdor COP/Test Report Validation Matrices (uniquely numbered by product model) provides correlation information for each product model reviewed indicating the test lab, report number(s), product size and installation information and ratings for design load and applicability of the large missile impact test. All applicable COP's and Matrices must bear the Warnock Hersey verification stamp

Product Line: Castlegate Entry Doors

Metal-Edge Steel Door Units (Matrix #3026447B-002) Fiberglass Door Units Flush Glazed Door Units

Product Models: Wood-Edge Steel Door Units (Matrix #3026447B-001) (Matrix #3026447B-003) (Matrix #3026447B-004)

ITS/ETL-Semko has no direct knowledge of the tests conducted and has made no attempt to verify the accuracy or correctness of the data submitted. The review conducted was only to determine that the manufacturer's claims as represented in the COP's are correct representations of the data supplied from the laboratories. ITS/ETL Semko's review was for structural performance results only and did not include review of air infiltration or water penetration test results.

ISSUED: 6-14-02

Revision Date: July 31, 2002 Supercedes Certificate #3026447B Issued June 14, 2002

**Entry Systems** 

**FLUSH GLAZED DOORS** 

| Intati Detail<br>(MID-WL-MA) | 0001-02          | 0005-02          | 0003-02               |         | 0004-02                |         | 0005-02               |         | 0001-00         | 20-1000         | 0003-02               | 20000   | 0004-02               |         | 0005-02               |         | 0001-02         | 0002-02          | 0003-02               |         | 0004-02               | 1000    | 0005-02               |         | 0001-02          | 0002-02          | 0003-02               |         | 0004-02               |         | 005-02                | 4       |  |                   |  |     |   |
|------------------------------|------------------|------------------|-----------------------|---------|------------------------|---------|-----------------------|---------|-----------------|-----------------|-----------------------|---------|-----------------------|---------|-----------------------|---------|-----------------|------------------|-----------------------|---------|-----------------------|---------|-----------------------|---------|------------------|------------------|-----------------------|---------|-----------------------|---------|-----------------------|---------|--|-------------------|--|-----|---|
| Ass'y Detail<br>(MAD-WL-MA)  | 0001-02: 0042-02 | 0002-02: 0042-02 | 0003-02: 0006/0042-02 |         | 0004-02: 0007/00042-02 |         | 0005-02: 0008/0042-02 |         | 0001-02-0042-02 | 0002-02 0042-02 | 0003-02: 0006/0042-02 |         | 0004-02: 0007/0042-02 |         | 0005-02: 0008/0042-02 |         | 0011-02 0042-02 | 0012-02, 0042-02 | 0013-02: 0016/0042-02 | ,       | 0014-02: 0017/0042-02 | 40      | 0015-02: 0018/0042-02 |         | 0011-02: 0042-02 | 0012-02: 0042-02 | 0013-02; 0016/0042-02 |         | 0014-02: 0017/0042-02 |         | 0015-02: 0018/0042-02 |         |  |                   |  |     |   |
| Ref. Test Reports'           | CTLA826W         | CTLA826W         | CTLA826W              |         | CTLA826W               |         | CTLA826W              |         | CTLA860W        | CTLA860W        | CTLA860W              |         | CTLA860W              |         | CTLA860W              |         | CTLA-826W       | CTLA-826W        | CTLA-826W             |         | CTLA-826W             |         | CTLA-826W             |         | CTLA-860W        | CTLA-860W        | CTLA-860W             |         | CTLA-860W             |         | CTLA-860W             |         |  |                   |  |     |   |
| Impact                       | z                | z                | Z                     | Z       | Z                      | z       | z                     | Z       | z               | 2               | z                     | z       | z                     | z       | z                     | z       | z               | Z                | Z                     | Z       | 2                     | Z       | Z                     | ×       | z                | Z                | z                     | z       | 2                     | z       | ×                     | 2       |  |                   |  |     |   |
| w/Surf.<br>Bolts             | -60.0            | -60.0            | -60.0                 | -60.0   | -60.0                  | -80.0   | -60.0                 | -60.0   | NA              | NA              | NA                    | NA      | NA                    | NA      | NA                    | NA      | -60.0           | -60.0            | -60.0                 | -60.0   | -60.0                 | -80.0   | -60.0                 | -60.0   | NA               | NA               | NA                    | NA      | NA                    | NA      | NA                    | NA      |  |                   |  |     |   |
| Appr'd                       | -40.0            | -40.0            | -40.0                 | -40.0   | -40.0                  | -40.0   | -40.0                 | -40.0   | -55.0           | -55.0           | -55.0                 | -55.0   | -55.0                 | -55.0   | -55.0                 | -55.0   | -43.0           | -43.0            | -43.0                 | -43.0   | -43.0                 | -43.0   | -43.0                 | -43.0   | -50.5            | -50.5            | -50.5                 | -50.5   | -50.5                 | -50.5   | -50.5                 | -50.5   |  |                   |  |     |   |
| w/Surf.<br>Bolts             | 60.0             | 0.09             | 0.09                  | 0.09    | 0.09                   | 60.0    | 60.0                  | 60.0    | NA              | NA              | NA                    | NA.     | NA                    | NA      | NA                    | NA      | 0.09            | 0.09             | 0.09                  | 0.09    | 0.09                  | 0.09    | 0.09                  | 60.0    | NA               | NA               | NA                    | NA      | NA.                   | NA      | NA                    | NA<br>A |  |                   |  |     |   |
| (pst)                        | 40.0             | 40.0             | 40.0                  | 40.0    | 40.0                   | 40.0    | 40.0                  | 40.0    | 50.0            | 50.0            | 50.0                  | 90.0    | 50.0                  | 50.0    | 50.0                  | 50.0    | 46.0            | 46.0             | 46.0                  | 46.0    | 46.0                  | 46.0    | 46.0                  | 46.0    | 50.0             | 50.0             | 50.0                  | 50.0    | 50.0                  | 50.0    | 50.0                  | 50.0    |  |                   |  |     |   |
| Type,                        | 92               | 2                | 16                    | 1G      | SI SI                  | 10      | 10                    | 5       | Ð               | 5               | 5                     | 9       | 10                    | DI DI   | 9                     | 16      | 16              | 9                | Ð                     | 16      | 10                    | 16      | 10                    | . IG    | 9F               | 9                | 9                     | 9       | 9                     | 16      | 16                    | 91      |  |                   |  |     |   |
| Leaf Size (ins.)             | 36 X 80          | 36 X 80          | 36 X 80               | 36 X 80 | 36 X 80                | 36 X 80 | 35 X 80               | 36 X 80 | 36 X 96         | 36 X 96         | 36 X 96               | 36 X 96 | 36 X 96               | 36 X 96 | 36 X 96               | 36 X 96 | 36 X 80         | 36 X 80          | 36 X 80               | 36 X 80 | 36 X 80               | 36 X 80 | 36 X 80               | 36 X 80 | 36 X 9E          | 36 X 9E          | 36 X 96               | 36 X 96 | 36 X 96               | 36 X 96 | 36 X 36               | 36 X 96 | I glazing  | CUZ AND PAZUS     |  |     |   |
| Leals                        | -                | 1,2              | -                     | SL      | -                      | SL      | 1.2                   | SL      | -               | 1,2             | 1                     | SL      | -                     | SL      | 1,2                   | SL      | -               | 1.2              | -                     | SL      | -                     | SL      | 1,2                   | SL      | -                | 1,2              | -                     | SL      | -                     | St      | 1,2                   | SL      | tempered   | AZUI, PA          |  |     |   |
| Size (ins.)                  | 36 X 80          | 72 X 80          | 72 X 80               |         | 108 X 80               |         | 144 X 80              |         | 36 X 96         | 72 X 96         | 72 X 96               |         | 108 X 96              |         | 144 X 96              |         | 36 X 80         | 72 X 80          | 72 X 80               |         | 108 X 80              |         | 144 X 80              |         | 36 X 96          | 72 X 96          | 72 X 96               |         | 108 X 96              |         | 144 X 96              |         | 1 O=opaque; IG=insulating glass with minimum 1/8" tempered glazing | -Dade riotocols r |  |     |   |
| (I/D)                        | -                | -                | -                     |         | -                      |         | -                     |         | _               |                 | -                     |         | -                     |         | -                     |         | 0               | ٥                | 0                     |         | 0                     |         | 0                     |         | 0                | 0                | 0                     |         | 0                     |         | 0                     |         | ng glass v   | AIGH MEILE        |  | Wat | m |
|                              | ×                | ×                | X0/0X                 |         | 000                    |         | oxxo                  |         | ×               | ×               | X0/0X                 |         | OXO                   |         | oxxo                  |         | ×               | ×                | XO/OX                 |         | oxo                   |         | 0000                  |         | ×                | ×                | X0/0X                 |         | oxo                   |         | 0000                  |         | G=insulati   | oncalice          |  | Ì   |   |
| -1                           | MA3241-02        | +                | MA3243-02             |         | MA3244-02              |         | MA3245-02             |         | MS3246-02       | -               | MA3248-02             |         | MA3249-02             |         | MA3250-02             |         | MA3261-02       | MA3262-02        | MA3263-02             |         | MA3264-02             |         | MA3265-02             |         | MA 3266-02       | MA3267-02        | MA3268-02             |         | MA3269-02             |         | MA3270-02             |         | O=opaque; Il   | rested III add    |  |     |   |

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Castlegate FIBERGLASS DOORS

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COP/Test Report Validation Matrix #3026447B-002

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COP/Test Report Validation Matrix #3026447B-003

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June 14, 2001

COP/MAD/MID sheets referenced in this matrix provides additional Information – available from Masonite website (www.masonite.com) or the Masonite technical conter.

Castlegate<sup>®</sup>

**WOOD-EDGE STEEL DOORS** 

|                                   |           |            |           |         |                       |         |         |              |         |            |            |           | W       | N.                    |         | •         | J lie        | -       | -            |              |              |         |            |         | _            | #       |  |   | 112  |
|-----------------------------------|-----------|------------|-----------|---------|-----------------------|---------|---------|--------------|---------|------------|------------|-----------|---------|-----------------------|---------|-----------|--------------|---------|--------------|--------------|--------------|---------|------------|---------|--------------|---------|--|---|--|
| intall Detail<br>(MID-WL-MA)      | 0001-02   | 0002-02    | 20-6000   |         | 0004-02               |         |         | 0005-02      |         | 0001-02    | 0002-02    | 0003-02   |         | 0004-02               |         |           | 20-5000      |         | 0001-02      | 0002-02      | 0003-02      |         | 0004-02    |         | 0005-02      |         |  |   |  |
| Ass'y Detail<br>(MAD-WL-MA)       | 0001-02   | 0002-02    | 0008-02;  |         | 0007/0041-02          |         |         | 0005/0041-02 |         | 0011-02    | 0012-02    | 0013-02   |         | 0014-02;              |         |           | 0015/0041-02 |         | 0001/0041-02 | 0002/0041-02 | 0006/0041-02 |         | 0004-02;   |         | 0008/0041-02 |         | Α.   |   |  |
| Ref. Test Reports'<br>(NCTL-210-) | 1864 7-8  | 1905 10-12 | 1880 7, 9 |         | 1880 7, 9: 1905 10-12 |         |         | 1905 10-12   |         | 1851 10-12 | 1905 10-12 | 18807, 9  |         | 1905 10-12; 1850 7, 9 |         |           | 1905 10-12   |         | 1897 10-12   | 1897 10-12   | 1897 10-12   |         | 1897 10-12 |         | 1897 10-12   |         |  |   |  |
| Impact<br>Appr'd                  | >-        | ×          | >         | z       | <b>*</b>              | Z       | Z       | *            | Z       | <b>*</b>   | >          | >-        | z       | >                     | z       | N         | >            | Z       | Z            | z            | ×            | ×       | N          | Z       | Z            | Z       |  |   |  |
| OP (Izd)                          | 76.0      | 55.0       | 67.0      | 67.0    | 67.0                  | 0.79    | 55.0    | 55.0         | 55.0    | 76.0       | 55.0       | 67.0      | 67.0    | 0.79                  | 67.0    | 55.0      | 55.0         | 55.0    | 50.5         | 50.5         | 50.5         | 50.5    | 50.5       | 50.5    | 50.5         | 50.5    |  |   |  |
| +0P<br>(pst)                      | 76.0      | 55.0       | 67.0      | 87.0    | 67.0                  | 67.0    | 55.0    | 55.0         | 55.0    | 76.0       | 55.0       | 67.0      | 67.0    | 67.0                  | 67.0    | 55.0      | 22.0         | 55.0    | 50.5         | 50.5         | 50.5         | 50.5    | 50.5       | 50.5    | 50.5         | 50.5    |  |   |  |
| Glazing<br>Type'                  | 0         | 0          | 0         | 2       | 0                     | 20      | 16      | 0            | 9       | 0          | 0          | 0         | DI DI   | 0                     | 16      | <u>DI</u> | 0            | 16      | 91           | 18           | 16           | 16      | 9          | 16      | 9            | 16      |  |   |  |
| Nominal Max.<br>Leaf Size (ins.)  | 36 x 80   | 36 x 80    | 36 x 80   | 14 x 80 | 36 x 80               | 14 x 80 | 36 x 80 | 36 x 80      | 36 x 80 | 36 x 80    | 36 x 80    | 36 x 80   | 14 x 80 | 36 x 80               | 14 x 80 | 36 x 80   | 36 x 80      | 36 x 80 | 36 x 80      | 36 x 80      | 36 x 80      | 36 x 80 | 36 x 80    | 36 x 80 | 36 x 80      | 36 x 80 | d PA203  |   |  |
| Lealt                             | 1         | 1,2        | *-        | SL      | -                     | SL      | SL      | 1,2          | SI      | -          | 1,2        | -         | SL      | -                     | SL      | SL        | 1,2          | SL      | -            | 1,2          | -            | SL      | -          | SL      | 1,2          | SL      | PA202 an   |   |  |
| Max. Overall<br>Size (ins.)       | 36 x 80   | 72 x 80    | 50 x 80   |         | 108 × 80              |         |         | 144 x 80     |         | 36 x 80    | 72 × 80    | 50 × 80   |         | 108 x 80              |         |           | 144 x 80     |         | 36 x 80      | 72 x 80      | 72 x 80      |         | 108 × 80   |         | 144 x 80     |         | 1 O=Opaque; IG=Insulating glass with minimum 1/8" tempered glazing 1 tested in accordance with Metro-Dade Protocols PA201, PA202 and PA203 5 5 5 5 |   |  |
| Swing<br>(I/O)                    | -         | -          | _         |         | -                     |         |         | -            |         | 0          | 0          | 0         |         | 0                     |         |           | 0            |         | -            | -            | -            |         | 12         |         | -            |         | with min<br>o-Dade P   |   |  |
| Config.                           | ×         | ×          | XO/OX     |         | 000                   |         |         | 0000         |         | ×          | ×          | XQ/QX     |         | 000                   |         |           | 0000         |         | ×            | ×            | X0/0X        |         | OXO        |         | oxxo         |         | with Metr  | VERIFED BY:   | 7  |
|                                   | wood      | роом       | моод      | 1       | poom                  |         |         | wood         | 1       | Mood       | wood       | роом      |         | роом                  |         |           | wood         |         | poam         | wood         | poom         |         | роом       |         | poom         |         | iG=insular<br>cordance   | June 14, 2002<br>P/MAD/MID sheets   | le reterenced                                    |
| (WL-)                             | CA4101-02 | CA4102-02  | CA4103-02 |         | CA4104-02             |         |         | CA4105-02    |         | CA4121-02  | CA4122-02  | CA4123-02 |         | CA4124-02             |         |           | CA4125-02    |         | CA4141-02    | CA4142-02    | CA4143-02    |         | CA4144-02  |         | CA4145-02    |         | tested in ac   | this matrix provide<br>formation – availab<br>Masonite web<br>(www.masonite.com<br>Masonite technical | s additional<br>le from the<br>site<br>n) or the |

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Castlegate Entry Systems

COP/Test Report Validation Matrix #3026447B-001

| (MID-WL-MA)      | 0004-09      | 0000-00      | 0003-02    |         | 0004-02    |         | 0005-02      |         |  |
|------------------|--------------|--------------|------------|---------|------------|---------|--------------|---------|--|
| (MAD-WL-MA)      | 0041/0041-02 | 0012/0041-02 | 0013-02;   |         | 0014-02;   |         | 0025/0041-02 |         |  |
| (NCTL-210-)      | 1897 10-12   | 1897 10-12   | 1897 10-12 |         | 1897 10-12 |         | 1897 10-12   |         |  |
| Appr'd           | 2            | 2            | Z          | Z       | z          | Z       | z            | N       |  |
| (psd)            | 50.5         | 50.5         | 50.5       | 50.5    | 50.5       | 50.5    | 50.5         | 50.5    |  |
| (psd)            | 50.5         | +            | -          | 50.5    | -          | 50.5    | _            | 50.5    |  |
| Glazing<br>Type' | D            | T            | 9          | 91      |            |         | 9            | П       |  |
| Leaf Size (Ins.) | 36 x 80      | 36 x 80      | 36 x 80    | 36 x 80 | 36 x 80    | 36 x 80 | 36 x 80      | 36 x 80 | 94208  |
| e e              | -            | 1,2          | <b>-</b>   | SL      | -          | SF      | 1,2          | SL      | d glazing  |
| Size (ins.)      | 36 x 80      | 72 x 80      | 72 x 80    |         | 108 x 80   |         | 144 x 80     |         | in accordance with Metro-Dade Protocols PA201, PA202 and PA203 in accordance with Metro-Dade Protocols PA201, PA202 and PA203 in accordance with Metro-Dade Protocols PA201, PA202 and PA203 in accordance with Metro-Dade Protocols PA201, PA203, PA20 |
| (O/I)            | 0            | 0            | 0          |         | 0          | 1       | 0            |         | Dade Pro   |
| Control.         | ×            | ×            | XO/OX      |         | 000        |         | 0XX0         |         | Wester N   |
| Type             | wood         | -            | Mood       | 1       | poom       | 4       | poom         | -       | X ) I mm.  |
| -                | CA4161-02    | CA4162-02    | CA4163-02  |         | CA4164-02  |         | CA4165-02    |         | COP/MAD/AliD she in this matrix provide the control of the control |

Castlegate

**METAL-EDGE STEEL DOORS** Daw 14, 2002

COP/MAD/MIO sheets referenced in this metrix provides additional information – available from the Masonite website (www.masonite.com) or the Masonite technical center.

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ITS Intertek Testing Services

Castlegate Entry Systems

COP/Test Report Validation Matrix #3026447B-002

**METAL-EDGE STEEL DOORS** 

| Intali Detail<br>(MID-WL-MA)       | 0003-02   |         | 0004-02      |         | 0005-02   |           | 0001-02      | 0000-02      | 0003-02   |         | 0004-02   |         | 0005-02      |          | 0001-02       | 0002-02       | 0001-02       | 0005-02      | 20-6000   |         | 0004-02   |          | 0005-02   |          | 0001-02       | 0002-02        |  |   |
|------------------------------------|-----------|---------|--------------|---------|-----------|-----------|--------------|--------------|-----------|---------|-----------|---------|--------------|----------|---------------|---------------|---------------|--------------|-----------|---------|-----------|----------|-----------|----------|---------------|----------------|--|---|
| Ass'y Detail<br>(MAD-WL-MA)        | 0013-02:  | 20.000  | 0017/0041-02 |         | 0015-02:  | 70 100000 | 0001/0041-02 | 0002/0041-02 | 0003-02;  |         | 0004-02;  |         | 0008/0041-02 |          | 0001/0041-02  | 0002/0041-02  | 0011/0041-02  | 0012/0041-02 | 0013-02;  |         | 0014-02:  |          | 0015-02;  |          | 0011-02       | . 0012/0041-02 |  |   |
| Ref. Text Reports'<br>(NCTL-210-)  | 1980 1-3  |         | 1980 1-3     |         | 1980 1-3  |           | 1897 1-3     | 1897 1-3     | 1897 1-3  |         | 1897 1-3  |         | 1897 1-3     |          | 1887 1-3, 7-9 | 1887 1-3, 7-9 | 1897 1-3      | 1897 1-3     | 1897 1-3  |         | 1897 1-3  |          | 1897 1-3  |          | 1887 1-3, 7-9 | 1887 1-3, 7-9  |  |   |
| Impact<br>Appr'd                   | >-        | ×       | >            | z       | >         | Z         | N            | N            | ×         | 2       | N         | N       | z            | z        | N             | N             | N             | N            | z         | ×       | z         | z        | z         | z        | Z             | ×              |  |   |
| (psd)                              | 48.3      | 48.3    | 48.3         | 48.3    | 48.3      | 48.3      | 50.5         | 50.5         | 50.5      | 50.5    | 50.5      | 50.5    | 50.5         | 50.5     | 45.0          | 45.0          | 50.5          | 50.5         | 50.5      | 50.5    | 50.5      | 50.5     | 50.5      | 50.5     | 45.0          | 45.0           |  |   |
| +0P<br>(pst)                       | 48.3      | 48.3    |              | 48.3    | 48.3      | 48.3      | -            |              | 50.5      | 50.5    |           | 50.5    | 50.5         | $\vdash$ | 43.0          |               | 50.5          | _            | 50.5      | 50.5    | 50.5      | $\vdash$ | $\vdash$  |          | 43.0          | $\neg$         |  |   |
| Glazing<br>Type"                   | 0         |         | 0            | - IG    | 0         | T         | 9/           |              |           |         | 9         | IG.     |              | 10       |               |               | B             |              | <u>S</u>  | 10      | 51        | 9        | ā         |          | 9             | $\neg$         |  |   |
| Nominal Max. G<br>Leaf Size (ins.) | 36 x 96   | 36 x 96 | 36 x 96      | 36 x 96 | 36 x 96   | 36 x 96   | 36 x 80      | 36 x 80      | 36 x 80   | 30 × 80 | 36 x 80   | 36 x 80 | 36 x 80      | 36 x 80  | 36 x 96       | 36 x 96       | 36 x 80       | 36 x 80      | 36 x 80   | 36 x 80 | 36 x 80   | 36 x 80  | 36 x 80   | 36 x 80  | 36 x 96       | 36 × 36        | PA203  |   |
| Leal                               | -         | SL      | -            | SL      | 1,2       | SL        | -            | 1,2          | -         | SL      | -         | SL      | 1,2          | SL       | -             | 1,2           | -             | 1,2          | -         | SL      | -         | SL       | 1,2       | St       | -             | 1,2            | ed glazing<br>A202 and   |   |
| Max. Overall<br>Size (ins.)        | 72 x 96   |         | 108 x 96     |         | 144 x 96  |           | 36 x 80      | 72 x 80      | 72 x 80   |         | 108 x 80  |         | 144 x 80     |          | 36 x 96       | 72 × 96       | 36 x 80       | 72 x 80      | 72 x 80   |         | 108 x 80  |          | 144 x 80  |          | 36 x 96       | 72 x 96        | 'O-opaque, 16-insulating glass with minimum 118" tempered glazing<br>! tested in accordance with Metro-Dade Protocols PA201, PA202 and PA203 |   |
| Swing<br>(1/0)                     | 0         |         | 0            |         | 0         |           | -            | _            | -         |         | -         |         | -            |          | -             | -             | 0             | 0            | 0         |         | 0         |          | 0         |          | 0             | 0              | rith minin-<br>Dade Pro  |   |
| - 1                                | x0/0x     |         | oxo          |         | 0000      |           | ×            | ×            | X0/0X     |         | oxo       |         | 0000         |          | ×             | ×             | ×             | ×            | XO/OX     |         | 0X0       |          | oxxo      |          | ×             | ×              | ng glass with Metro  | VERIFIED BY:  |
| Frame                              | роом      |         | моод         |         | wood      |           | мооф         | wood         | wood      |         | роом      |         | роом         | 1        | wood          | wood          | роом          | роом         | poom      |         | wood      |          | wood      |          | мооф          | роом           | rinsulatir   | Jane 14, 2002   |
|                                    | CA3128-02 |         | CA3129-02    |         | CA3130-02 |           | -            |              | CA3143-02 |         | CA3144-02 |         | CA3145-02    | $\dashv$ | -             | CA3147-02     | $\rightarrow$ | CA3162-02    | CA3163-02 |         | CA3164-02 |          | CA3165-02 | $\dashv$ | $\neg$        | CA3167-02      | O=opaque; IG<br>tested in acco   | COP/MAD/MID sheets rafe<br>in this matrix provides add<br>information – available fro<br>Masonite website<br>(www.masonite.com) or<br>Masonite technical cerv |

PREMIDOR Godlection

Masonite

Masonite

Masonite International Corporation

ITS Intertek Testing Services

MODEL: CUSTOM DESIGNED BY: **GBR** CHECKED BY: PLAN DATE: 11/03/05 **DELIVERY DATE:** 12-22-05

0601444 PROJECT NUMBER

6.7

PREMIOR Collection
Premium Quality Does:

Masonite International Corporation

PREMDOR

**DP-50** 

Builders FirstSource

PREMDOR ENTRY SYSTEMS

**Installation Instructions for Pre-hung Units** 

"Premdor Entry Systems are designed for easy installation. Just follow these step-by-step instructions."

IMPORTANT: Read and understand the entire procedure before attempting to install a door. Use of dark colors and non-venting storm doors are not recommended for Premdor doors equipped with plastic glass insert frames and can void the warranty on the glass insert and doors. Observing this precaution will help reduce heat build-up between the door and storm door.

SINGLE DOOR w 2 8/L RO WIDTH 65-3/16" 69-3/16"

To measure the rough opening on a door that is being replaced, remove interior casings to ensure accurate measurements from stud to stud and from floor to header.

RO WIDTH

B - Compression Weatherstripping C - Thermally Broken Sill

Components of an Entry System Door Unit

SIDE OF FRAME

D - Door Sweep (installed)

E - Screw Bag and Installation Instructions

F- Hinges (3) G-Lock Side Jamb

H- Hinge Side Jamb

J- Glass Insert

BO WIDTH

000R SIZE 64" 72" /--

Measure height at both sides of the opening from the floor up to the bottom of the header. What is the smallest measurement.
(Rough Opening Only)

- SWING-OUT

STEP 5. COMPONENTS OF ENTRY SYSTEM DOOR UNIT

STEP 8. INSTALL PRE-HUNG UNIT STEP 9. TEMPORARILY NAIL HINGE

INTO ROUGH OPENING

Right Handed Right Handed Left Handed

Rough opening width is measured from the inside of the stud frame to the inside of the building.

 Rough opening size allows \*\*Mar shim space on each side of the opposite stud. Do not measure from gyproc, molding, or casings.

 Rough opening size allows \*\*Mar shim space on each side of this door.

 To measure the rough opening on a door that is below.

Rough openings are calculated using 14" wide stdetites.
 Deduct 2" from the rough opening width for each 12" sidetite bottom of the header (top of rough opening). Rough opening neight is measured from the floor to the beader (top of rough opening). Rough opening height required is 22" for all doors which open in, and 81 1/4" for doors which open out.

\*RO = Rough Opening (door viewed from the outside of building) Rough Opening Heights In-swing - 82\*, Out-swing - 81 1/4\*.

NOTE: Rough openings shown for 14" sidelites. For 12" sidelites deduct 2" for each sidelite. For 10" sidelites deduct 3-3/4" for each sidelite. For 10" sidelites deduct 3-3/4" for each sidelite.

SINGLE DOOR w 1 S/L RO WIDTH

- 2" x 4" or 2" x 6" construction simply refers to the width of lumber used to frame the rough opening. How to measure for your new Premdor Entry System

Left Handed

Framing Square (24")

PROOF CAULKING

Apply a double bead of waterproof adhesive cautiling compound to a concrete still or clean sublicor. You are now ready to install the pre-hung unit.

Wooden shirns Nail Set

Phillips Screwdriver
Measuring Tape
are as follows a level (2dm) (2dm)

STEP 6. SQUARE AND PLUMB STEP 7. APPLY WATER

53-11/16"

Jamb is of the conduction surply resers to the whom or lumber used to trame the rough opening.

Hew to measure for your new Premider Entry System

Amount is wider than framing lumber to allow the jamb to overlap the wallboard, panelling, siding etc.

Brickmold covers the gap between the rough opening and the door jamb on the exterior wall and door casing should be applied on the interior.

Measure width at top, center, and bottom of opening between the sluds.

What is the smallest measurement, (Rough Opening Only)

Measure height at both sides of the opening from the floor up

SWING-IN

SINGLE DOOR w 1 S/L RO WIDTH

ODR SIZE SINGLE DOOR

STEP 2. DETERMINE DOOR FRAME SIZE

All double door systems allow for both doors to open. However,

the other deer opens and closes (active door).

All doors pictured assume you are standing on the outside of the building.

· Out-swing units supplied with a bumper type threshold.

0 6 0

Exterior Butyl caulk cartridge

Caulking gun
Putty knife

3" galvanized finish nails

10 200-17

ROUGH STUD OPENING

STEP 3. DETERMINE DOOR SWING

STEP 4. TOOLS AND SUPPLIES

MID-WL-MA0001-02 SINGLE DOOR · 6 per vertical framing membe 2 per horizontal framing member Hinge and strike plates require two 2-1/2" long screws per location. Rough Opening (RO) Width of door unit plus 1/2" · Height of door unit plus 1/4" SEE NOTE #

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003, 004, #3026447B-001, 002, 003, 004; #3026447C-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.etisemko.com), the Masonite vehicle center.

**Latching Hardware:** 

. Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.

UNITS COVERED BY COP DOCUMENT 0246\*, 0266\*, 3241\*, 3246, 3261\* or 3266 Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel - (1) at top and (1) at bottom.

\*Based on required Design Pressure - see COP sheet for details.

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons. Threshold fasteners analyzed for this unit include #8 and #10 wood screws, 3/16" Tapcons, or Liquid Nails Builders Choice 490 (or equal structural adhesive).

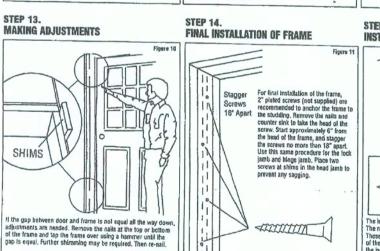
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.

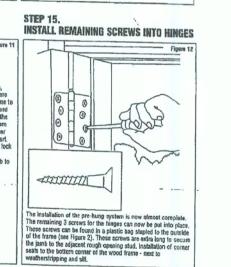
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

STEP 10.
TEMPORARILY NAIL LOCK-SIDE OF FRAME
STEP 11.
STEP 12.
TEMPORARILY NAIL REMAINDER OF FRAME CHECK WEATHERSTRIP SEAL

Move to the lock side of the frame. Shim and then repeat Step 7.
Neil through the jamb face and the shim 6" from the top, 6" from
the bottom and at the strike. Use a 6" shim behind each nall.

Note: Leave the nail bead sticking out slightly as they may
have to be removed later. **MAKING ADJUSTMENTS** 





To check the seal of the weatherstrip against the door, hold the door slightly away from the weatherstrip. If the distance is say all the way down the door, positioning is correct and no

STEP 16. FINAL FINISHING AND PAINTING

Use exterior grade caulking to seal around entire perimeter of door frame on the exterior wall and along the exterior nosing of the sid and building structure, interior door casing should be installed around the objective gap between the door trame and rough opening studs. You may want to consider filling this gap with loosely stuffed fiberglass insulation for an extra measure of ineviation, Apply a bead a finish paint, sculf sand surface lightly with fine sandopers and make surface door surfaces are thoroughly cleaned. Finish painting the outside of the door with a high quality soler commended. Before applying enamel paint. Use a high quality latex or enamel paint for the interior finish, Use of dark colors and non-rentiling storm doors are not recommended of the door with a high quality exterior sash and trim latex or and can void the warranty on the quass insert and doors. Observing this precaution will help reduce heat build-up between the door and storm door.

WARRANTIES









PRENDOP\* Premdor Helpline: 800-663-DOOR • (800-663-3667)
Hours: 9:00 am - 9:00 pm (EST) Monday - Saturday

Hours: 9:00 am - 9:00 pm (EST) Monday - Saturday 19:00 am - 4:00 pm (EST) Sunday E-mail: marketing@premdor.com • website: www.premdor.com

6 per vertical framing member for 7'0" height and smaller . 8 per vertical framing member for heights greater than 7'0" · 4 per horizontal framing member Hinge and strike plates require two 2-1/2" long screws per location. Rough Opening (RO) Width of door unit plus 1/2" Height of door unit plus 1/4" Warnock Harray
Test Data Review Certificate #3026447A; #3026447B; #3026447C and CDP/Test Report Validation Matrix
#3026447A-001, 002, 003, 004; #3026447B-001, 002, 003, 004; #3026447C-001, 002, 003, 004 provides
additional information - available from the ITS/MYI website (www.etsemko.com), the Masonite website
(www.masonite.com) or the Masonite technical center. Latching Hardware: . Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed. UNITS COVERED BY COP DOCUMENT 0246\*, 0266\*, 3241\*, 3246, 3261\* or 3266 Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel - (1) at top and (1) at bottom. \*Based on required Design Pressure - see COP sheet for details.

achievement of minimum embedment of 1-1/4". Wood bucks by others, must be anchored properly to transfer loads to the structure.

1. Anchor calculations have been carried out with the fastener rating from the different fasteners being considered for use. Jamb and head fasteners

analyzed for this unit include 10d common nails. Threshold fasteners analyzed for this unit include Liquid Nails Builders Choice 490 (or equal

2. The common nall single shear design values come from ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and

Masonite.

MID-WL-MA0001-02

SINGLE DOOR

Florida Building Code Approvals Type Product Florida Product Product Model Size Manufacturer Product Design Pressure (psf) BiltBest Windows and Patio Doors Double Hung FL2306.1 Clad Challenger II +50.0/ -50.0 BiltBest Windows and Patio Doors 20x32 twin Double Hung FL2306.1 Clad Challenger II +50.0/ -50.0 20x310 Double Hung single FL2306.1 BiltBest Windows and Patio Doors Clad Challenger II +50.0/ -50.0 20x310 twin Double Hung FL2306.1 Clad Challenger II BiltBest Windows and Patio Doors +50.0/ -50.0 20x46 Double Hung FL2306.1 single Clad Challenger II BiltBest Windows and Patio Doors +50.0/ -50.0 20x46 FL2306.1 Double Hung twin Clad Challenger II BiltBest Windows and Patio Doors +50.0/ -50.0 20x52 BiltBest Windows and Patio Doors single Double Hung FL2306.1 Clad Challenger II +50.0/ -50.0 20x52 FL2306.1 BiltBest Windows and Patio Doors twin Double Hung Clad Challenger II +50.0/ -50.0 30x32 single Double Hung FL2306.1 BiltBest Windows and Patio Doors Clad Challenger II +50.0/ -50.0 Clad Challenger II Double Hung 30x32 FL2306.1 BiltBest Windows and Patio Doors twin +50.0/ -50.0 30x310 single Double Hung FL2306.1 BiltBest Windows and Patio Doors Clad Challenger II +50.0/ -50.0 30x310 FL2306.1 Double Hung BiltBest Windows and Patio Doors twin Clad Challenger II +50.0/ -50.0 30x46 FL2306.1 BiltBest Windows and Patio Doors single Double Hung Clad Challenger II +50.0/ -50.0 30x46 twin Double Hung FL2306.1 BiltBest Windows and Patio Doors Clad Challenger II +50.0/ -50.0 30x46 triple Double Hung FL2306.1 BiltBest Windows and Patio Doors Clad Challenger II +50.0/ -50.0 30x52 single Double Hung FL2306.1 BiltBest Windows and Patio Doors Clad Challenger II +50.0/ -50.0 30x52 twin Double Hung FL2306.1 Clad Challenger II BiltBest Windows and Patio Doors +50.0/ -50.0 30x52 Clad Challenger II triple Double Hung FL2306.1 BiltBest Windows and Patio Doors +50.0/ -50.0 30x56 single Double Hung FL2306.1 BiltBest Windows and Patio Doors Clad Challenger II +50.0/ -50.0 Double Hung 30x56 twin FL2306.1 Clad Challenger II BiltBest Windows and Patio Doors +50.0/ -50.0 30x62 Double Hung FL2306.1 BiltBest Windows and Patio Doors single Clad Challenger II +50.0/ -50.0 30x62 Clad Challenger II BiltBest Windows and Patio Doors twin Double Hung FL2306.1 +50.0/ -50.0 Double Hung Clad Challenger II BiltBest Windows and Patio Doors 30x62 triple FL2306.1 +50.0/ -50.0 2842 Spirit E-Clad 28x60 | BiltBest Windows and Patio Doors single Casement FL3675.1 +50.0/ -50.0 2842 Spirit E-Clad 28x60 BiltBest Windows and Patio Doors twin Casement FL3675.1 +50.0/ -50.0 3142 single Casement FL385.1 Spirit E-Clad 32x70 BiltBest Windows and Patio Doors +40.0/-40.0 3142 twin FL385.1 Spirit E-Clad 32x70 BiltBest Windows and Patio Doors Casement +40.0/-40.0 4854 single FL3676.1 Spitit E-Clad DH/CASE | BiltBest Windows and Patio Doors Fixed +40.0/-40.0 24x24 Spitit E-Clad DH/CASE | BiltBest Windows and Patio Doors octagon Fixed FL3676.1 +40.0/-40.0 3618 Spitit E-Clad DH/CASE | BiltBest Windows and Patio Doors half round Fixed FL3676.1 +40.0/-40.0 7236 Spitit E-Clad DH/CASE | BiltBest Windows and Patio Doors half round Fixed FL3676.1 +40.0/-40.0 Spitit E-Clad DH/CASE | BiltBest Windows and Patio Doors 36x36 triangle Fixed FL3676.1 +40.0/-40.0 72x72 triangle Fixed FL3676.1 Spitit E-Clad DH/CASE | BiltBest Windows and Patio Doors +40.0/-40.0 36x24x60 Fixed FL3676.1 Spitit E-Clad DH/CASE | BiltBest Windows and Patio Doors trapezoid +40.0/-40.0 72x24x96 FL3676.1 Fixed Spitit E-Clad DH/CASE | BiltBest Windows and Patio Doors trapezoid +40.0/-40.0 30x68 single Inswing FL20.1 Fiberglass Door Masonite International +50.0/ -50.0 30x68 single Inswing FL18.1 Wood-Edge Steel Door Masonite International +50.0/ -50.0 60x68 twin Sliding FL4036.5 #415 French Sliding SNE Enterprises (WeatherShield) +40.0/-40.0 Wood Door 71"x83" SGD-R40 6'-8" Glazed Units 60x68 twin Side-Hinged FL4085.2 +60.0/ -60.0 Masonite International Fiberglass (X,XX,OX,XO,OXO,OXXO) 15# asphalt sat. Roofing Felt #15 ASTM 4869 FL1814.1 Woodland Industries Inc. slopes < 2:12 15# asphalt sat. Roofing Felt FL1814.2 #15 ASTM D-22 TYPE I Woodland Industries Inc. slopes < 2:12 30# asphalt sat. Roofing Felt FL1814.3 Woodland Industries Inc. #30 ASTM 4869 slopes < 2:12 30# asphalt sat. Roofing Felt FL1814.4 #30 ASTM D-22 TYPE I Woodland Industries Inc. slopes < 2:12 RT12 RT12 Rafter Tie FL572.2 Rafter Tie Strap United Steel Products Company Miami-Dade

MODEL: CUSTOM DESIGNED BY **GBR** FLAN DATE 1/03/05 DELIVERY DATE:

PROJECT NUMBER

12-22-05



## MID AMERICA TESTING LABORATORY, INC.

10525 SIGNAL HILL DRIVE · CATAWISSA, MISSOURI 6:3015 (636) 257-4722 · FAX (636) 257-5425

WINDOW MANUFACTURER: Bilt Best Windows

175 Tenth St. Genevieve, Missouri 63670

MODEL NUMBER: Clad Challenger II Double Hung

H-LC50 (with clips) PERFORMANCE CLASS:

JOB NUMBER: 01063W

DATE OF REPORT: September 17, 2001

LOCATION OF TESTING: Mid America Testing Laboratory

DATE OF TESTING: June 6 - 15, 2001

All tests were conducted in accordance with the testing procedures outlined in AAMA/NWWDA 101/I.S.2-97 and applicable ASTM standards.

The following were present for all or portions of the laboratory testing.

Mr. Fred Gegg

EXPERATION DATE:

Bilt Best Windows Bilt Best Windows

Bilt Best Clad Challenger II Double Hung

.437" (the original glass bite) when the

.340" when subjected to the 70 lbf load.

sash member is subjected to a 50 lbf load.

.290" when subjected to the 50 lbf load.

horizontal sash member is subjected to a 70 lbf

.437" (the original glass bite) when the vertical

No entry

No entry

01063W

The tested specimen meets the performance levels specified in AAMA/NWWDA

The tested specimen meets the performance levels specified in AAMA/NWWDA

The Bilt Best Clad Challenger II Double Hung window unit as described in this report has

This report or any portions thereof is valid for a period not to exceed four years and may not

be reproduced by anyone or forwarded to anyone without written consent of Mid America

met or exceeded applicable test criteria set forth in AAMA/NWWDA 101/I.S.2-97 for a

September 17, 2001

No entry

June 15, 2005

Mr. John Sutterer Mid America Testing Laboratory Mr. Travis Swisshelm Mr. Rick Heitmann Mid America Testing Laboratory

## **UNIT DESCRIPTION**

10.2.1.5

10.2.1.7

10.2.1.8

ALLOWED:

RESULTS:

ALLOWED:

RESULTS:

performance class of H-LC50.

SUMMARY

Static load test

at 75 pounds.

Static load test

at 75 pounds.

for 5 minutes

101/I.S.2-97 and ASTM F 588.

101/I.S.2-97 and ASTM E 987.

Lock manipulation

2.2.1.6.2 DEGLAZING TEST (ASTM E 987)

The Clad Challenger II Double Hung window unit, manufactured by Bilt Best, was installed onto the lexan test wall by laboratory personnel for purposes of weatherization and structural testing. The overall frame had a dimension of 3'-15/16" wide X 6'-5 13/64" tall. The operable sash measured a nominal 2'-10 5/8" wide X 3'-1 7/16" tall.

The unit was glazed with a nominal 5/8" insulated, 1/8 - 1/8 clear annealed glass. The glass was channel glazed with a butyl seal on the interior and capped with a silicone sealant on the exterior.

Bilt Best Clad Challenger II Double Hung 01063W September 17, 2001

The sash sill was weathered with a dual line of gaskets along with foam pads. The outer most gasket was a foam filled bulb gasket while the interior was a foam filled wipe type bulb gasket. The sash frame was weathered with fin wool pile gaskets.

The meeting rail weathering was accomplished with a bulb gasket at the rail with fin wool pile weathering on the jamb. The primary frame gaskets were also fin wool pile creating a dual weather line for the sash as well.

The sash was operated by a pair of jamb liner balance assemblies. The sash was locked by a pair of sweep locks located at quarter points of the meeting rail.

The window construction consisted of square cut and coped corners. The frame corners were fastened with staples, while the sash corners were fastened with 1 1/4 Phillip pan head fasteners. All corners joints were sealed with sealant.

The unit was attached into the wood buck with a total of seven (7) fasteners per jamb. The fasteners were located 6" from the head and sill and then a nominal 12" on center. One additional fastener was attached at the horizontal meeting rail location.

#### FORMAL TESTING

Tests were conducted on the 3'-15/16" wide X 6'-5 13/64" tall Clad Challenger II Double Hung with structural support clips provided by Bilt Best Window and installed onto the test wall by laboratory personnel. Tests were conducted in substantial accordance with the test procedures outlined and described below utilizing the applicable AAMA/NWWDA and ASTM standards.

1. **2.2.2.5.1 OPERATING FORCE** (AAMA/NWWDA 101/I.S.2-97)

ALLOWED:

35 pounds

Bilt Best Clad Challenger II Double Hung

MID AMERICA TESTING LABORATORY

01063W

President

Testing Laboratory. Participants referenced in the test report are welcome to a copy of this

test report if so desired by the laboratory's client.

RAH/slh

01063WTR

September 17, 2001

Respectfully submitted,

RESULTS: 28 pounds

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97.

Bilt Best Clad Challenger II Double Hung 01063W September 17, 2001

2.1.2 AIR INFILTRATION TEST (ASTM E 283) at 1.57 PSF (25 MPH and .3"

ALLOWED: Air infiltration shall not exceed .3 CFM per

square foot of frame area. The air infiltration did not exceed the allowed .3 CFM per square foot of frame area. The actual leakage was .19 CFM per square foot.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 283.

2.1.3 WATER RESISTANCE TEST (ASTM E 331) at 4.0 PSF (40 MPH and .76"

ALLOWED:

No uncontrolled water infiltration to the room

No uncontrolled water infiltration to the room

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 331.

2.1.3 WATER RESISTANCE TEST (ASTM E 331) at 7.5 PSF (40 MPH and .76"

ALLOWED:

**RESULTS:** 

**RESULTS:** 

No uncontrolled water infiltration to the room

No uncontrolled water infiltration to the room

RESULTS:

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 331.

Bilt Best Clad Challenger II Double Hung 01063W September 17, 2001

2.1.4.2 UNIFORM LOAD STRUCTURAL TEST (ASTM E 330) at 1.5 times design load for ten (10) seconds duration in both directions. Deflections and permanent sets were measured at 1.5 times only.

+50.0 PSF (75% Positive Design Load) to remove slack +75.0 PSF (150% Positive Design Load) -50.0 PSF (75% Negative Design Load) to remove slack

**RESULTS:** 

-75.0 PSF (150% Negative Design Load) ALLOWED: Permanent set of framing members shall not

exceed 4/1000 of the span length. There shall be

no failure of the system.

No member exceeded the maximum permanent set and there was no failure of the system.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 330.

5. 2.1.8 FORCED ENTRY TEST (ASTM F 588) Performance Grade 10

at 75 pounds.

|          | TEST TITLE                        | ALLOWED  | RESULT   |
|----------|-----------------------------------|----------|----------|
| 10.1.1.1 | Lock manipulation for 5 minutes   | No entry | No entry |
| 10.1.1.2 | Lock manipulation for 5 minutes   | No entry | No entry |
| 10.2.1.1 | Static load test<br>at 150 pounds | No entry | No entry |
| 10.2.1.2 | Static load test at 75 pounds.    | No entry | No entry |
| 10.2.1.3 | Static load test at 75 pounds.    | No entry | No entry |
| 10.2.1.4 | Static load test                  | No entry | No entry |

## MID AMERICA TESTING LABORATORY, INC.

10525 SIGNAL HILL DRIVE · CATAWISSA, MISSOURI 63015 (636) 257-4722 • FAX (636) 257-5425

WINDOW MANUFACTURER:

Bilt Best Windows 175 Tenth

MODEL NAME:

C-HC40 32 5/8 X 70 3/4

LOCATION OF TESTING:

Mid America Testing Laboratory

DATE OF TESTING:

**EXPIRATION DATE:** April 27, 2004

All tests were conducted in accordance with procedures outlined in AAMA/NWWDA 101/I.S.2-97 and applicable ASTM standards.

The following were present for all or portions of the laboratory testing.

Mr. Tim Meyer Mr. Gene Keeton Bilt Best Windows Mid America Testing Laboratory

## UNIT DESCRIPTION

The Series Spirit "E" aluminum clad wood project out casement manufactured by Bilt Best was installed onto a test wall by laboratory personnel for purposes of weatherization and structural testing. The overall frame had a dimension of 32 5/8" wide X 70 3/4" tall. The sash size was 30 3/4" wide X 68 7/8" tall

glazing was interior set with a bed seal at the exterior and removable wood beads at the interior fastened with #6 wood screws at 10" on center.

row of sweep gaskets at the exterior.

20088W Bilt Best Spirit "E" Casement HC40 April 28, 2000

Two (2) cam locks located at 19 1/2" from the head and sill locked the sash. The sash was hinged on Truth two (2) bar hinges. A truth roto operator located at the sill operated the sash.

The frame and sash construction consisted of a square cut and coped wood corners at the interior and mitered corner joints at the exterior. The exterior aluminum joints were sealed with silicone sealant.

## FORMAL TESTING

Tests were conducted on the 32 5/8" wide X 70 3/4" tall project out casement window provided by Bilt Best and installed onto the test wall by laboratory personnel. Tests were conducted in substantial accordance with the test procedures outlined and described below utilizing the applicable AAMA and ASTM standards.

2.1.2 AIR INFILTRATION TEST (ASTM E 283) at 6.24 PSF (50.0 MPH and 1.2"

ALLOWED:

RESULTS:

Air infiltration shall not exceed .3 CFM per square

The tested specimen meets the performance levels specified in AAMA/NWWDA

2.1.3 WATER RESISTANCE TEST (ASTM E 547) at 6.0 PSF (49.0 MPH and 1.15"

.14 CFM per square foot.

No uncontrolled water infiltration to the room

ALLOWED:

RESULTS:

101/I.S.2-97 and ASTM E 283.

No uncontrolled water infiltration to the room

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 547.

St. Genevieve, Missouri 63670 Series Spirit "E" P.O. Casement

PERFORMANCE CLASS: JOB NUMBER:

20088W

DATE OF REPORT:

April 28, 2000

April 27, 2000

Mr. Rick Heitmann

Mid America Testing Laboratory

The unit was glazed with a nominal 5/8" insulated 1/8" – 1/8" clear annealed glass. The

The sash perimeter was weathered with one (1) row of bulb gasket at the exterior and one (1)

11/7/2005 9:47 AM ARCHICAD VERSION 8.1

MODEL: CUSTOM DESIGNED BY: CHECKED BY:

P.AN DATE: **11/03/05** DELIVERY DATE: 12-22-05 0601444

PROJECT NUMBER

Page 3 20088W Bilt Best Spirit "E" Casement HC40 April 28, 2000

2.1.3 WATER RESISTANCE TEST (ASTM E 547) at 6.0 PSF (49.0 MPH and 1.15  $H_2O$ )

ALLOWED: No uncontrolled water infiltration to the room side.

**RESULTS:**No uncontrolled water infiltration to the room side.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 547.

 2.1.4.2 UNIFORM LOAD STRUCTURAL TEST (ASTM E 330) at 1.5 times design load for ten (10) seconds duration in both directions. Deflections and permanent sets were measured at 1.5 times only.

+30.0 PSF (75% Positive Design Load) to remove slack +60.0 PSF (150% Positive Design Load) -30.0 PSF (75% Negative Design Load) to remove slack -60.0 PSF (150% Negative Design Load)

ALLOWED:

Permanent set of framing members shall not exceed 4/1000 of the span length or .275". There shall be no failure of the system.

**RESULTS:** 

.020" permanent set and there was no failure of the system.

The tested specimen meets the performance levels specified in AAMA/NWW/DA 101/I.S.2-97 and ASTM E 330.

5. 2.1.8 FORCED ENTRY TEST (ASTM F 588) Performance Grade 10

TEST TITLE

ALLOWED RESULT

Lock Manipulation for 5 minutes.

No entry

Page 4 20088W Bilt Best Spirit "E" Casement HC40 April 28, 2000

|          | TEST TITLE                       | ALLOWED  | RESULT   |
|----------|----------------------------------|----------|----------|
| 10.1.1.2 | Lock manipulation for 5 minutes. | No entry | No entry |
| 10.2.2.1 | Static load test at 75 pounds.   | No entry | No entry |
| 10.2.2.2 | Static load test at 150 pounds.  | No entry | No entry |
| 10.2.2.3 | Static load test at 150 pounds.  | No entry | No entry |
| 10.2.2.4 | Lock manipulation for 5 minutes. | No entry | No entry |

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM F 588.

2.2.5.6.1 VERTICAL DEFLECTION TEST (AAMA 101-97)

ALLOWED: Maximum deflection of .64" at a concentrated

load of 60 lbf.

.25" deflection at a concentrated load of 60 lbf.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97.

7. **2.2.5.6.2 HARDWARE LOAD TEST** (AAMA 101-97)

ALLOWED:

**RESULTS:** 

There shall be no failure of screws or track, or permanent deformation of support arms at a

uniform load of 6.24 PSF.

RESULTS:

There was no failure of screws or track, or permanent deformation of support arms at a uniform load of 6.24 PSF.

Page 5 20088W Bilt Best Spirit "E" Casement HC40 April 28, 2000

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97.

8. <u>2.2.5.6.3 TORSION TEST</u> (AAMA 101-97)

Maximum deflection of 2.75" at a concentrated

load of 20 lbf.

**RESULTS:** 1.25" deflection at a concentrated load of 20 lbf.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97.

### SUMMARY

ALLOWED:

The Bilt Best Series Spirit "E" aluminum clad wood project out casement window unit as described in this report has met or exceeded all applicable test criteria set forth in AAMA/NWWDA 101/I.S.2-97 for a performance class of C-HC40.

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Respectfully submitted,

MID AMERICA TESTING LABORATORY

Rend

Rick A. Heitmann President

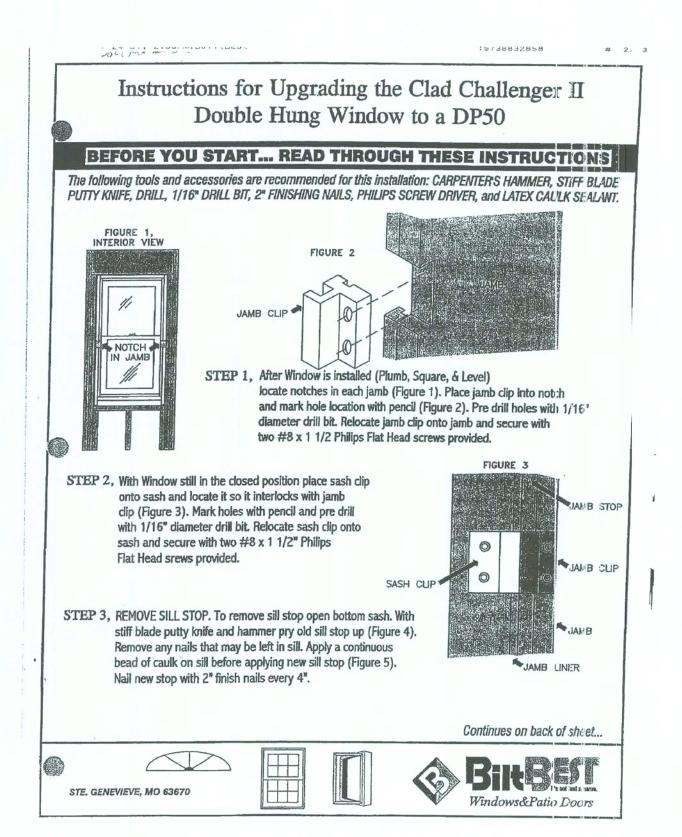
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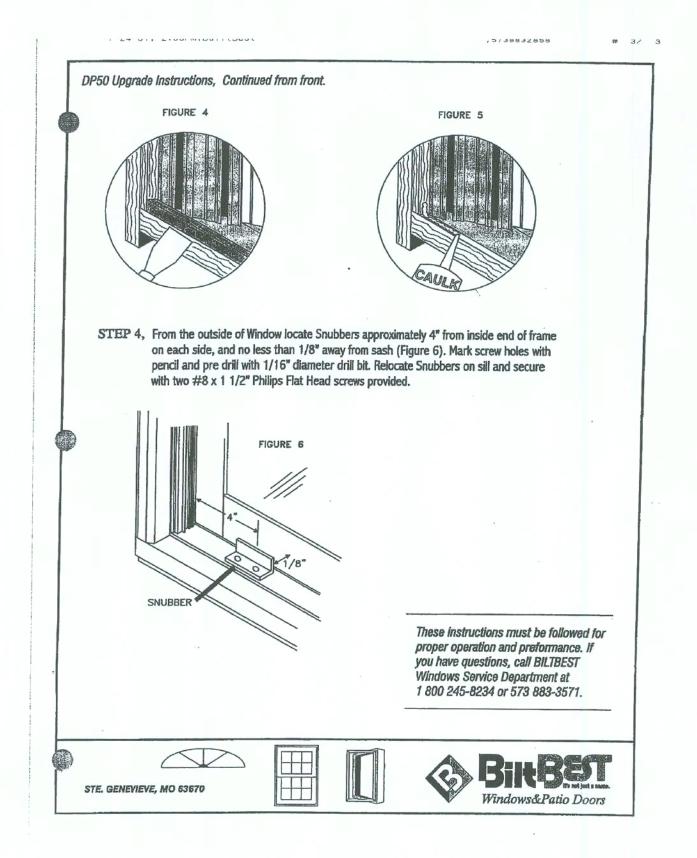
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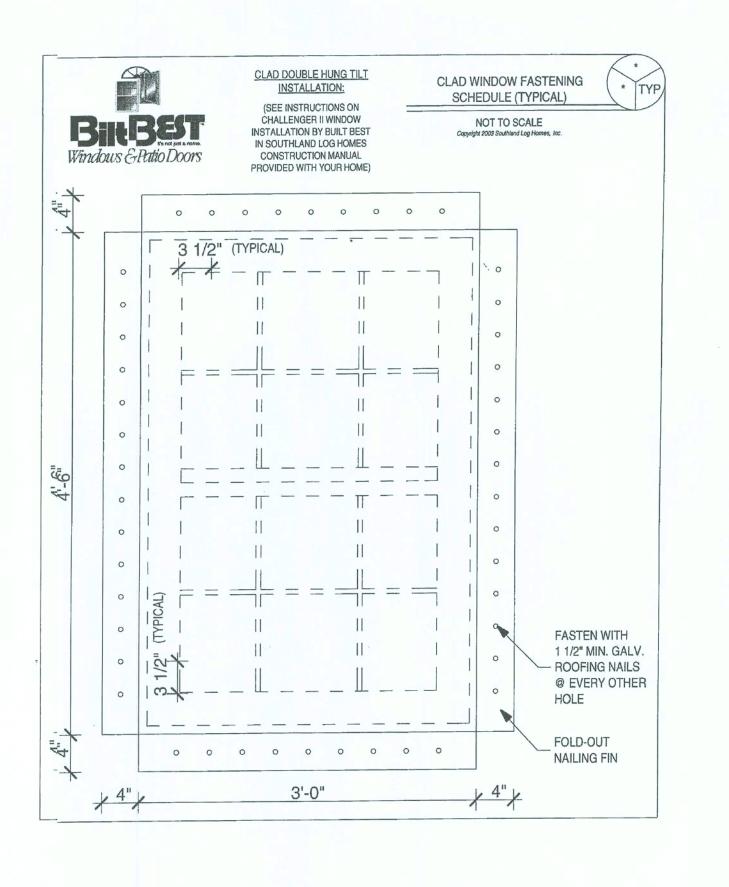
Wesley R. Godwin, P.E. \*

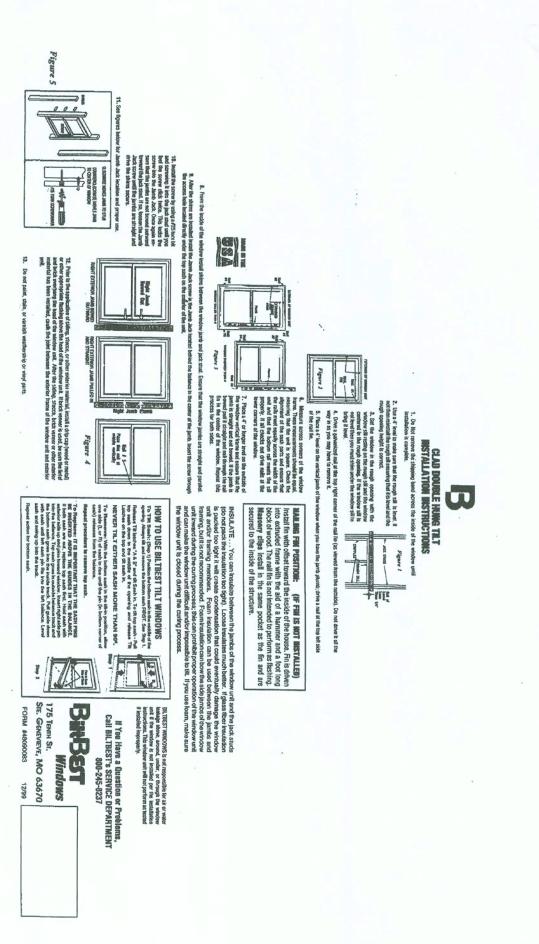
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P.AN DATE: 11/03/05 DELVERY DATE: 12-22-05 0601444 PROJECT NUMBER

MODEL:

CUSTOM

DESIGNED BY:

GBR