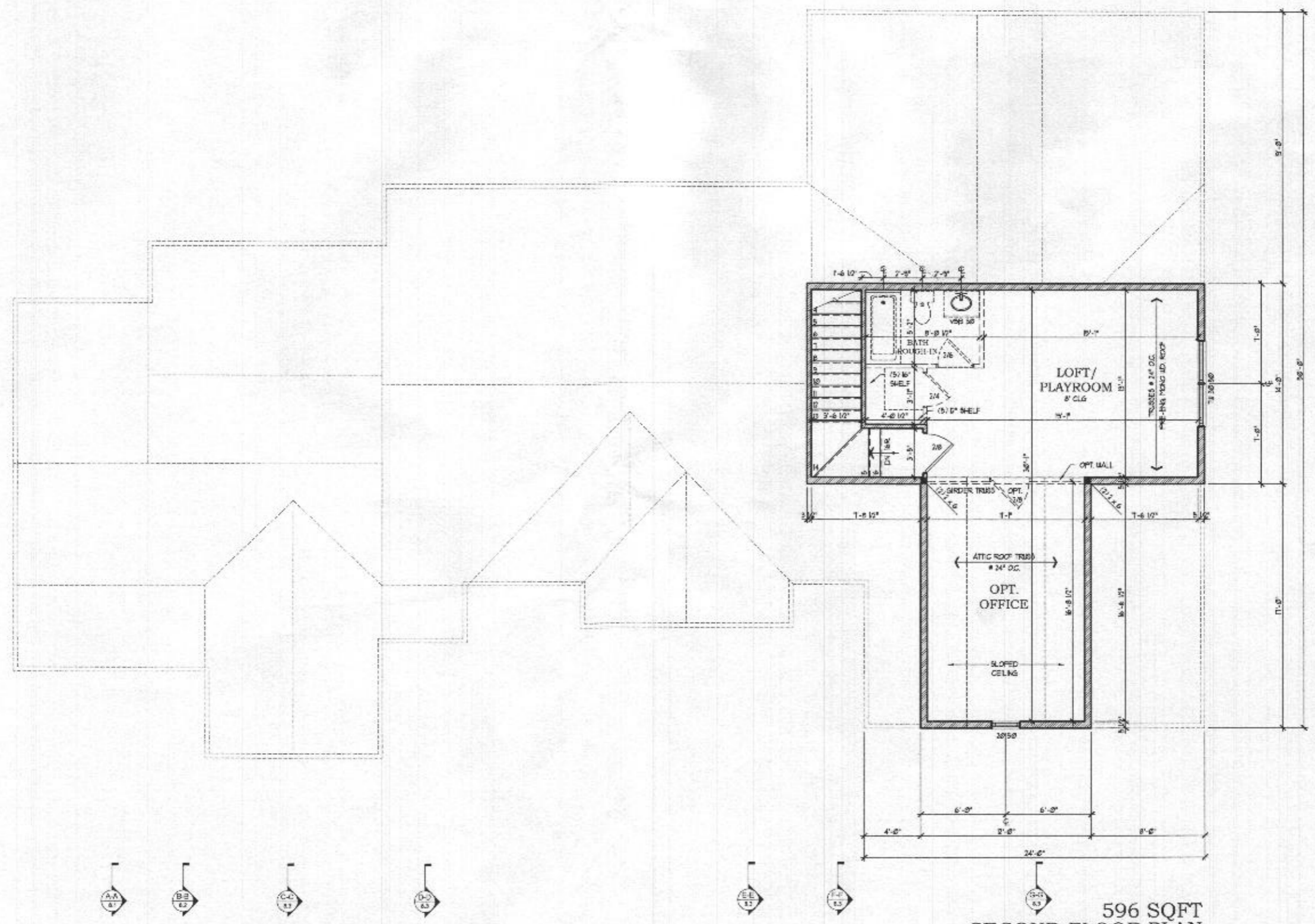




1BR

- FRAMING NOTES:**
1. ALL EXTERIOR WALLS ARE TO BE 2x6 STUDS FRAMED @ 16" O.C., UNLESS NOTED OTHERWISE.
  2. ALL INTERIOR WALLS ARE TO BE 2x4 STUDS FRAMED @ 16" O.C., UNLESS NOTED OTHERWISE.
  3. SOLID BLOCK ALL BEAMS & HEADERS (GREATER THAN 4") w/ (1) 2x JACK STUD & (1) 2x KING STUD. THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED (TYP.) UNLESS NOTED OTHERWISE.
  4. (3) 2 x 6 HEADERS (TYP.) AT OPENINGS LESS THAN 12" UNLESS NOTED OTHERWISE.
  5. FLOOR JOISTS SHOWN IS ONLY FOR GUIDANCE. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW.
  6. SUB-FLOOR SHALL BE 3/4" THICK (MIN.) TONGUE & GROOVE TO MEET APA STANDARD.



**596 SQFT  
SECOND FLOOR PLAN**  
SCALE (17x11): 1/8" = 1'-0"  
SCALE (36x24): 1/4" = 1'-0"

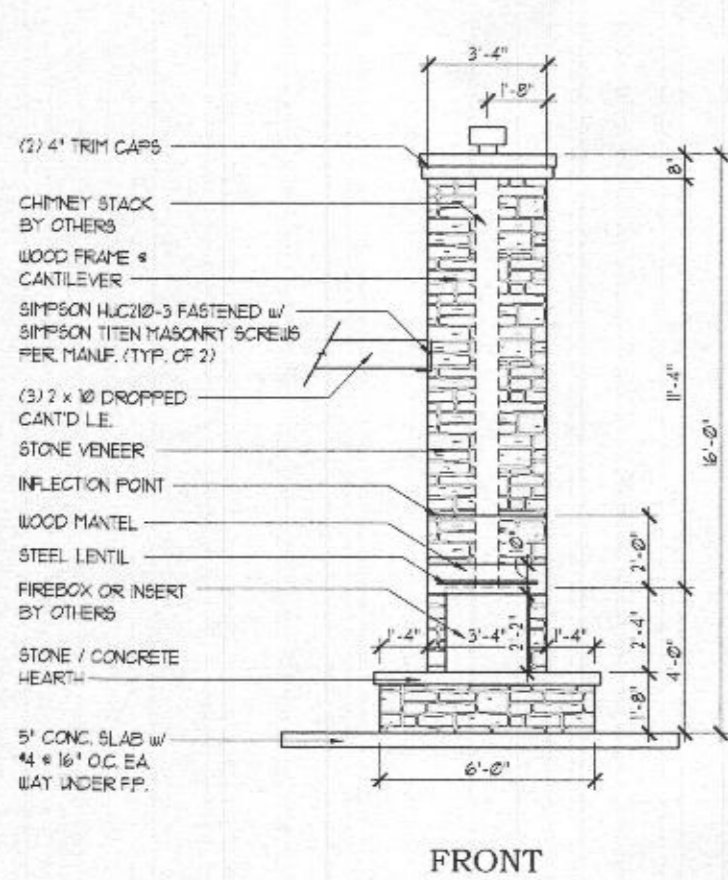
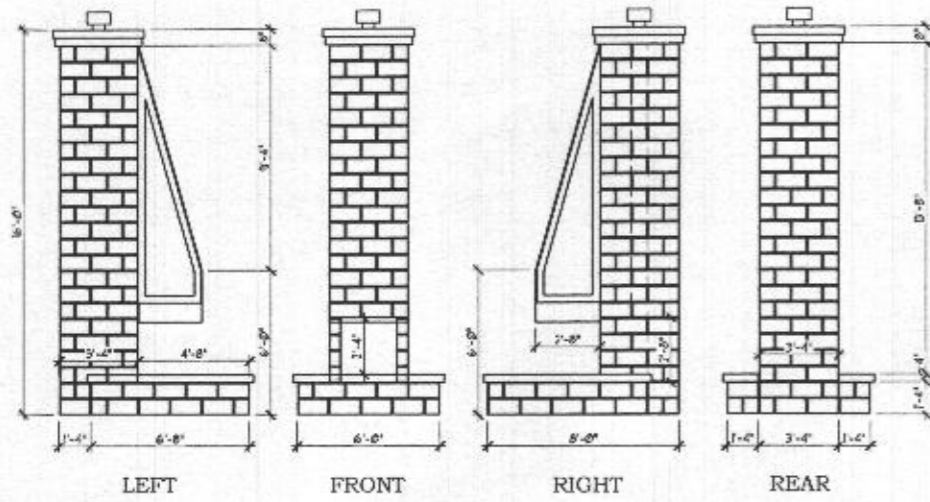
Architecture Collaborative, Inc.  
8334 Main Street  
Ellicott City, MD 21043  
www.archcoll.com  
Tel.: (410) 465-7500 Fax: (410) 465-0903

content	SECOND FLOOR PLAN
scale:	1" = 4' (34x22) 1/8" = 1'-0" (17x11)
date:	02/08/20
drawn:	SJS
title	LEE STUMPF STUMPF RESIDENCE

date	revision

SHEET 2  
6.1

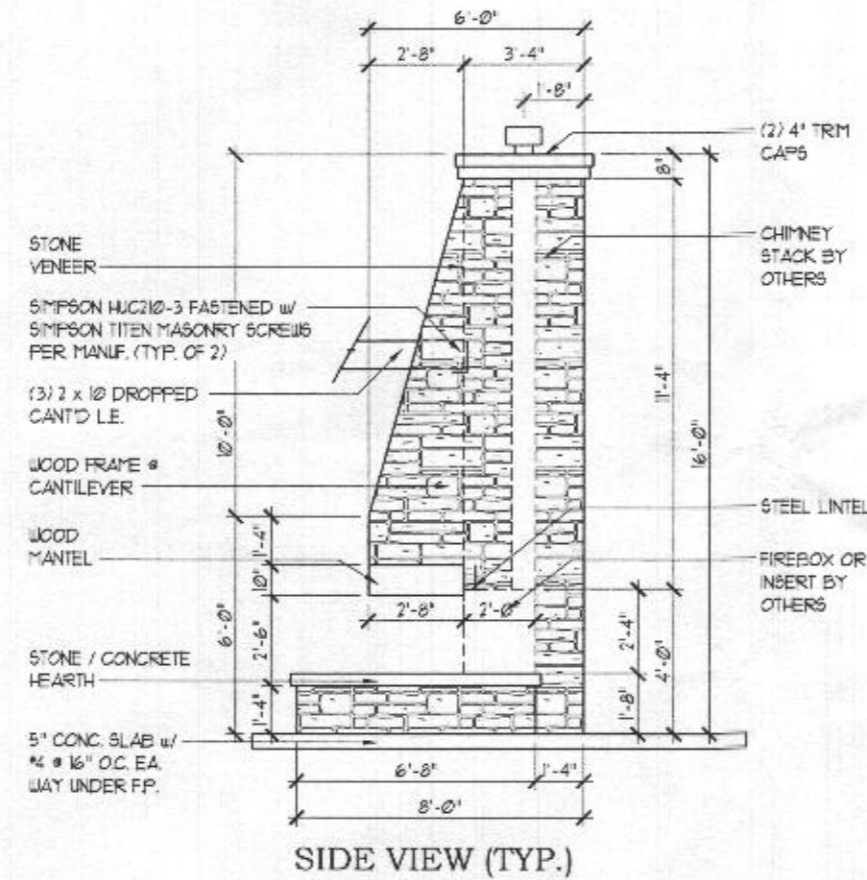
Professional Certification  
I hereby certify that these documents were prepared or approved by me and that I am a duly licensed member of the State of Maryland under the laws of the State of Maryland.  
License Number: 582  
Expiration Date: 04-05-2022



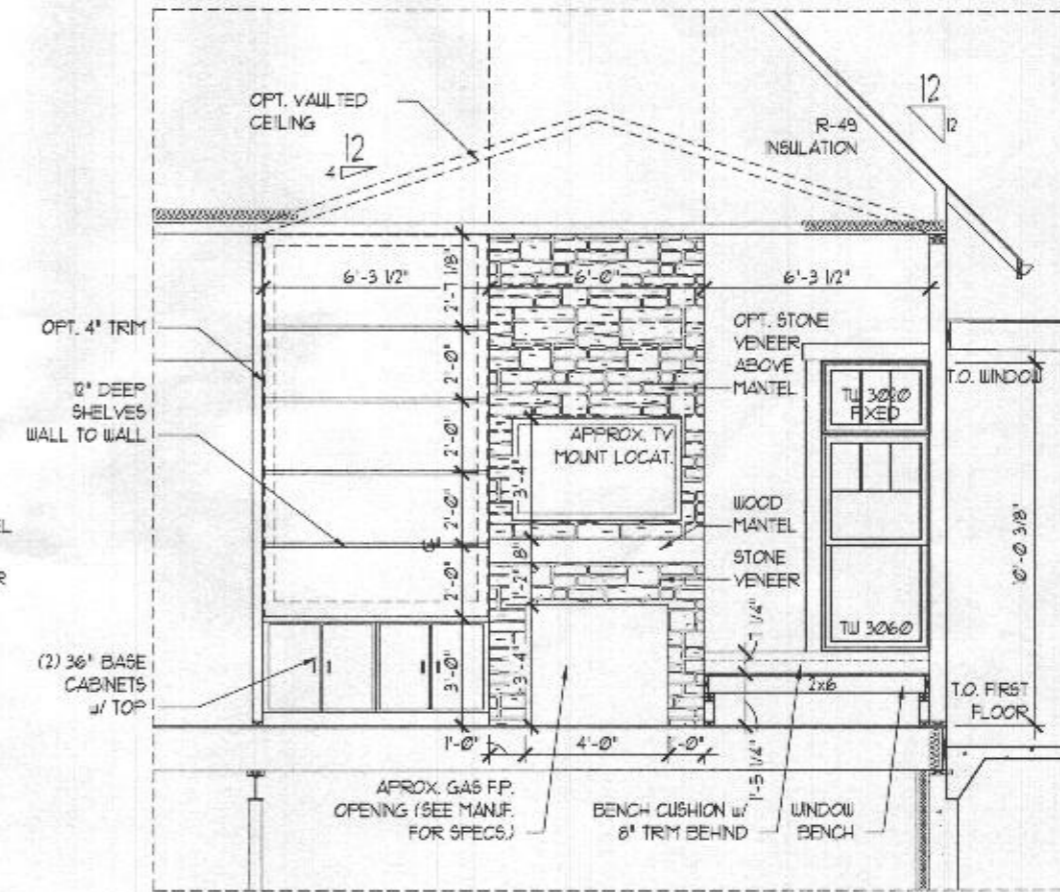
FRONT

## OUTDOOR FIREPLACE

SCALE (17x11): 3/16" = 1'-0"  
SCALE (34x22): 3/8" = 1'-0"



SIDE VIEW (TYP.)



## OPT. BUILT-IN DETAIL

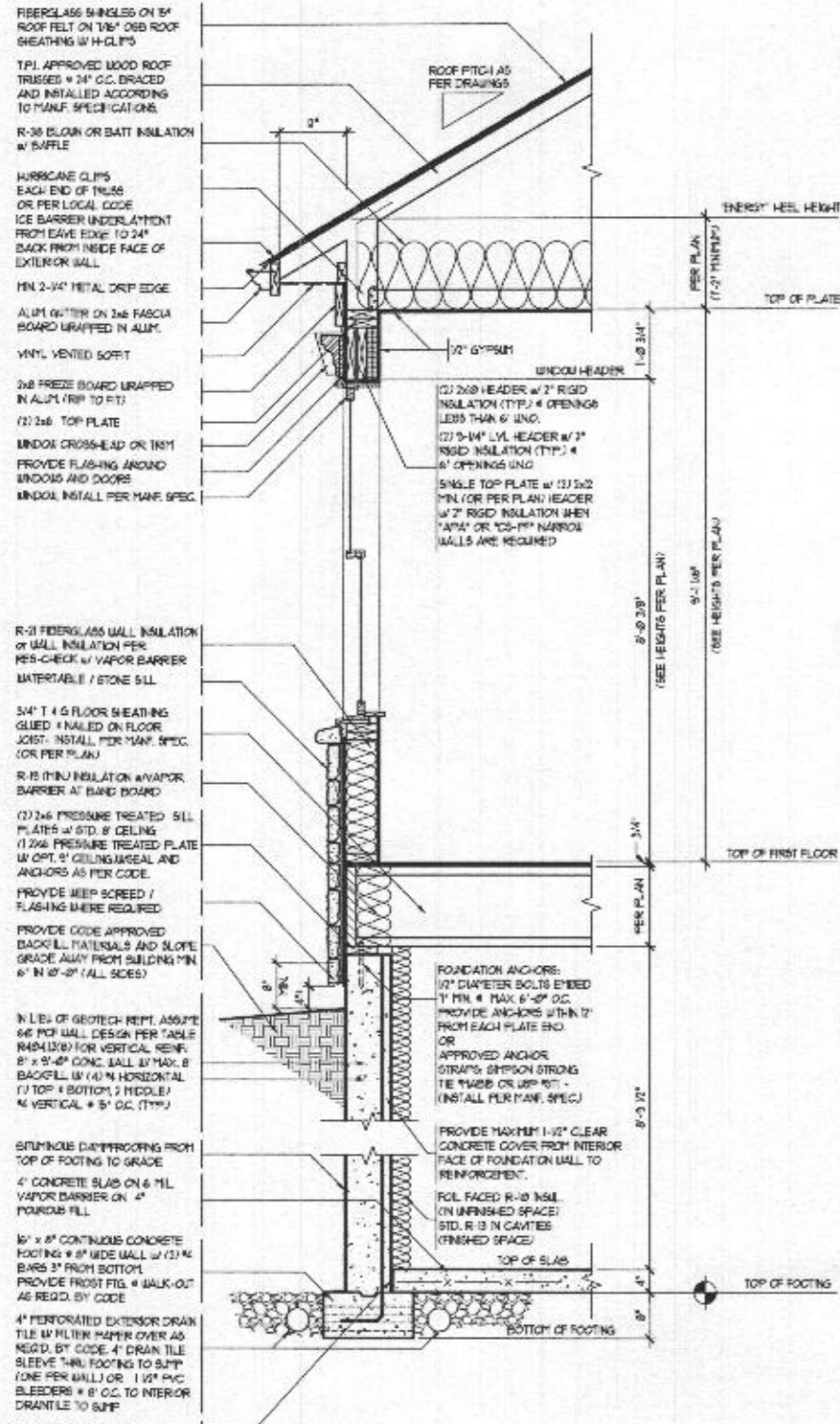
SCALE (17x11): 3/16" = 1'-0"  
SCALE (34x22): 3/8" = 1'-0"

Architecture Collaborative, Inc.  
8334 Main Street  
Ellicott City, MD 21043  
www.archcol.com  
Tel.: (410) 465-7500 Fax: (410) 465-0903

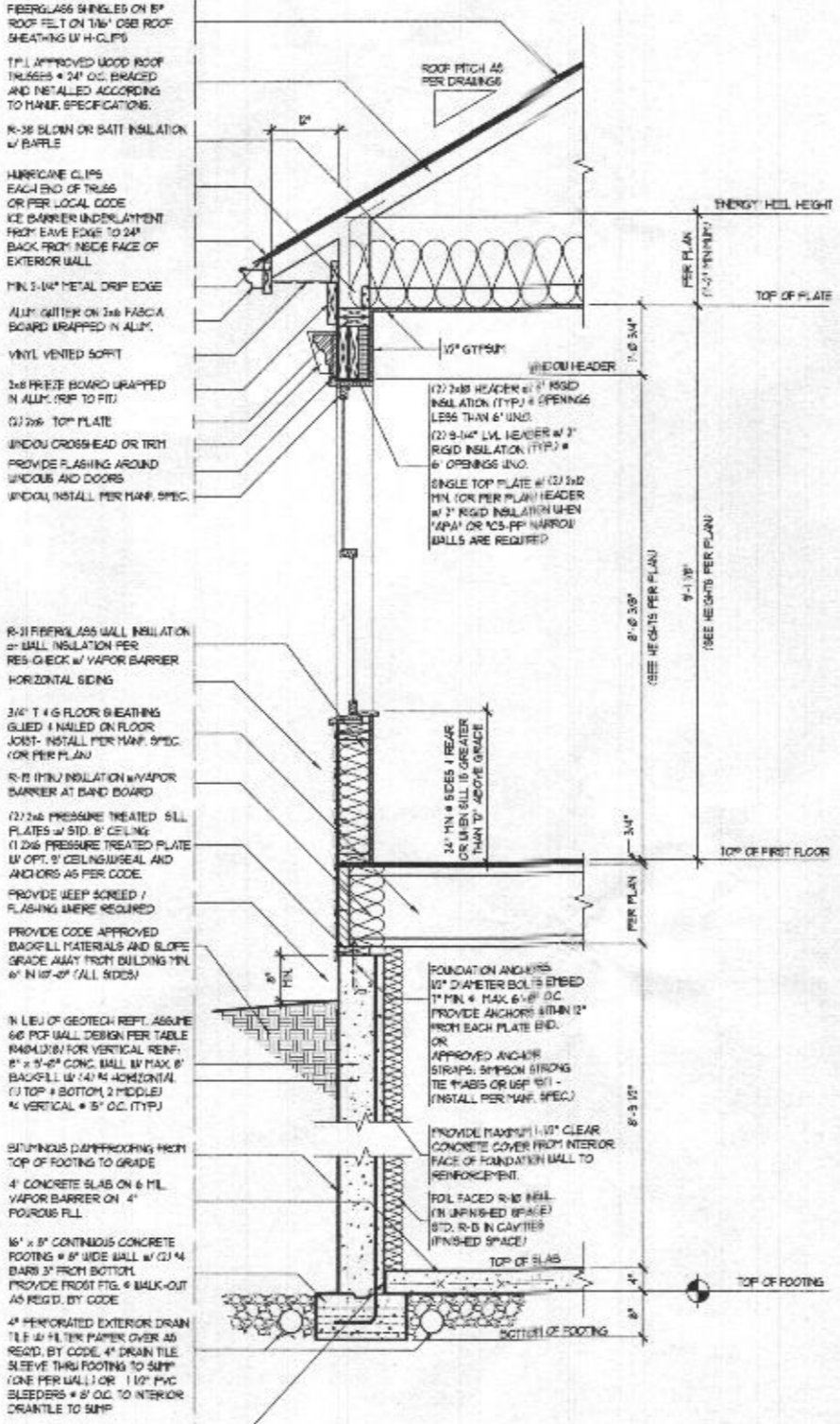
DETAIL SHEET  
date: 02/02/20  
drawn: SJS  
scale: 1"=4' (34x22)  
U.S.G. 1"=8' (17x11)  
LEE STUMPF  
STUMPF RESIDENCE

date	revision	by	content

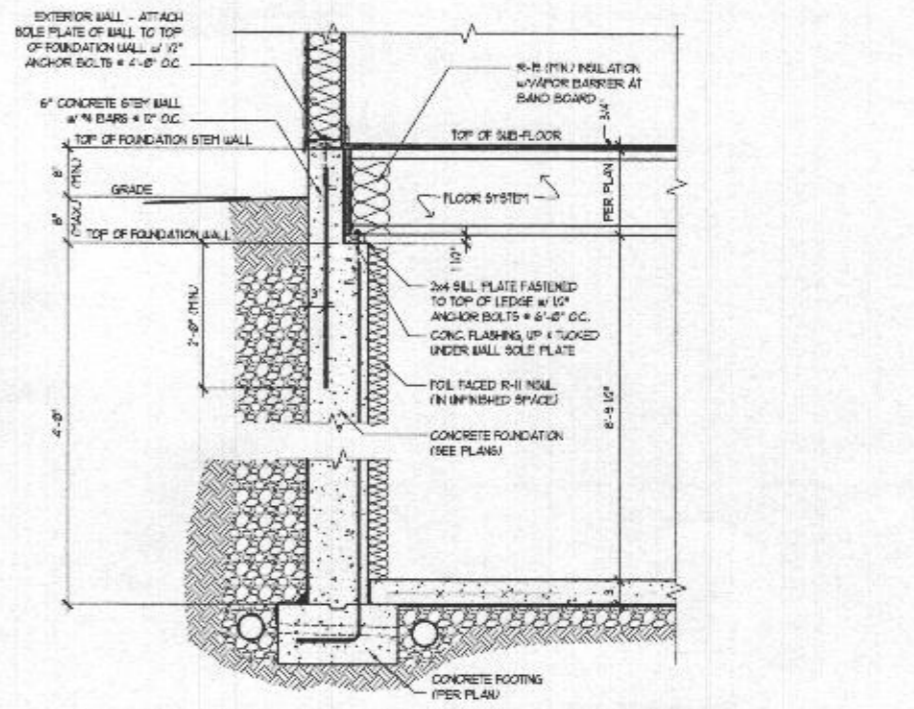
SHEET #  
7.1  
Professional Certification  
I hereby certify that these documents were prepared or approved by me and that I am a duly licensed architect in the State of Maryland.  
license number: 5161  
expiration date: 04-05-2022



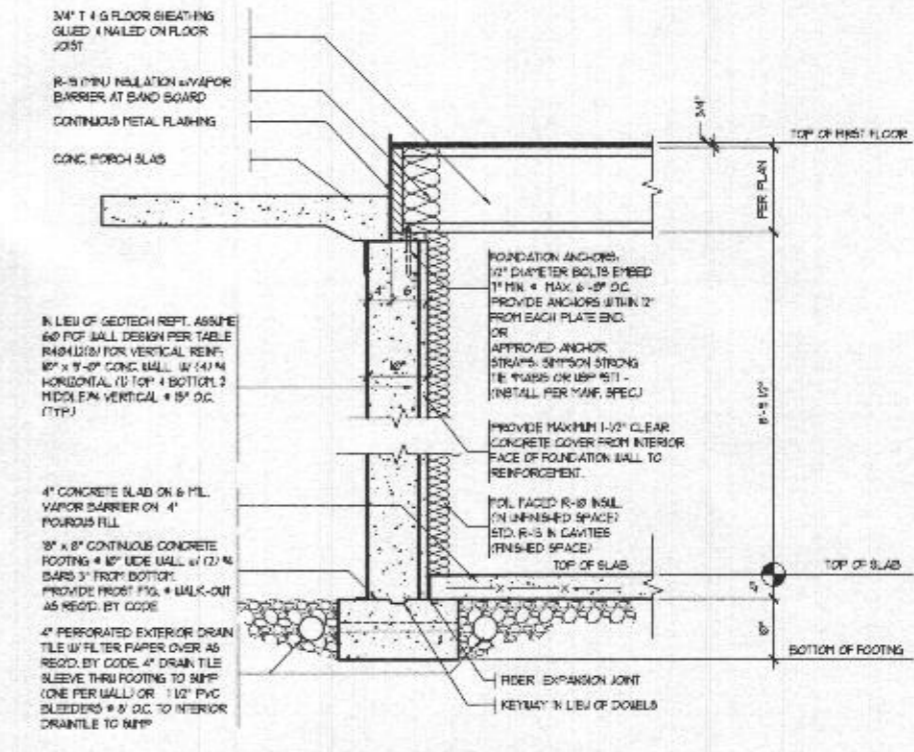
**2 BASEMENT WALL SECTION**  
 SCALE (17x11): 3/8" = 1'-0" SCALE (34x22): 3/4" = 1'-0" 2/14/2018  
 (SYNTHETIC STONE VENEER BASE w/ SIDING ABOVE)



**1 BASEMENT WALL SECTION**  
 SCALE (17x11): 3/8" = 1'-0" SCALE (34x22): 3/4" = 1'-0" 5/14/2018  
 (FULL SIDING)



**3 DETAIL @ INTERIOR STEM WALL LEDGE**  
 SCALE (17x11): 3/8" = 1'-0" SCALE (34x24): 3/4" = 1'-0"



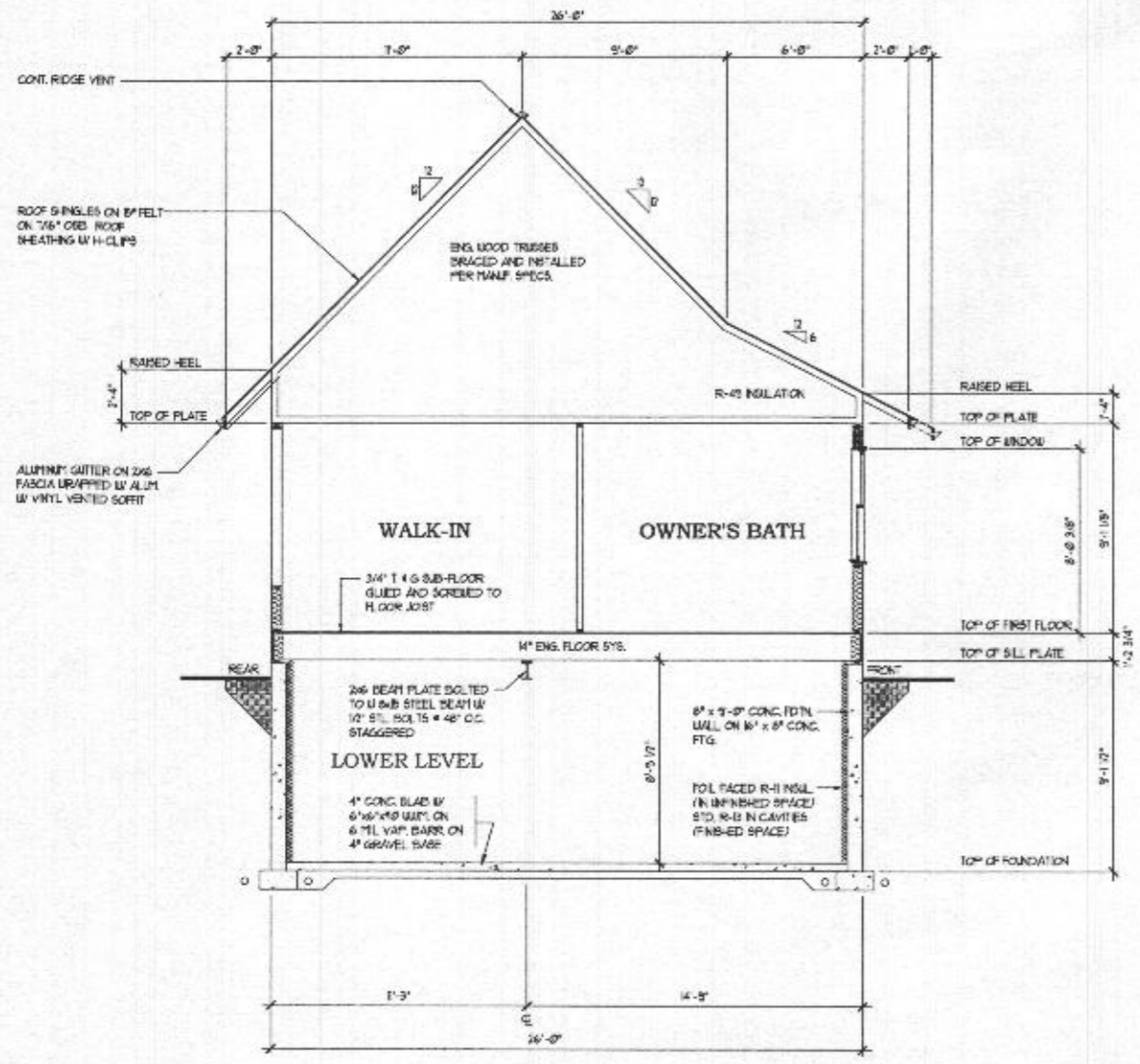
**3A BASEMENT WALL SECTION**  
 SCALE (17x11): 3/8" = 1'-0" SCALE (34x22): 3/4" = 1'-0" 5/1/2019  
 (PORCH WALL W/ CONCRETE LEDGE)

Architecture Collaborative, Inc.  
 Ellicott City, MD 21043  
 8334 Main Street  
 www.archcol.com  
 Tel.: (410) 465-7500 Fax: (410) 465-0903

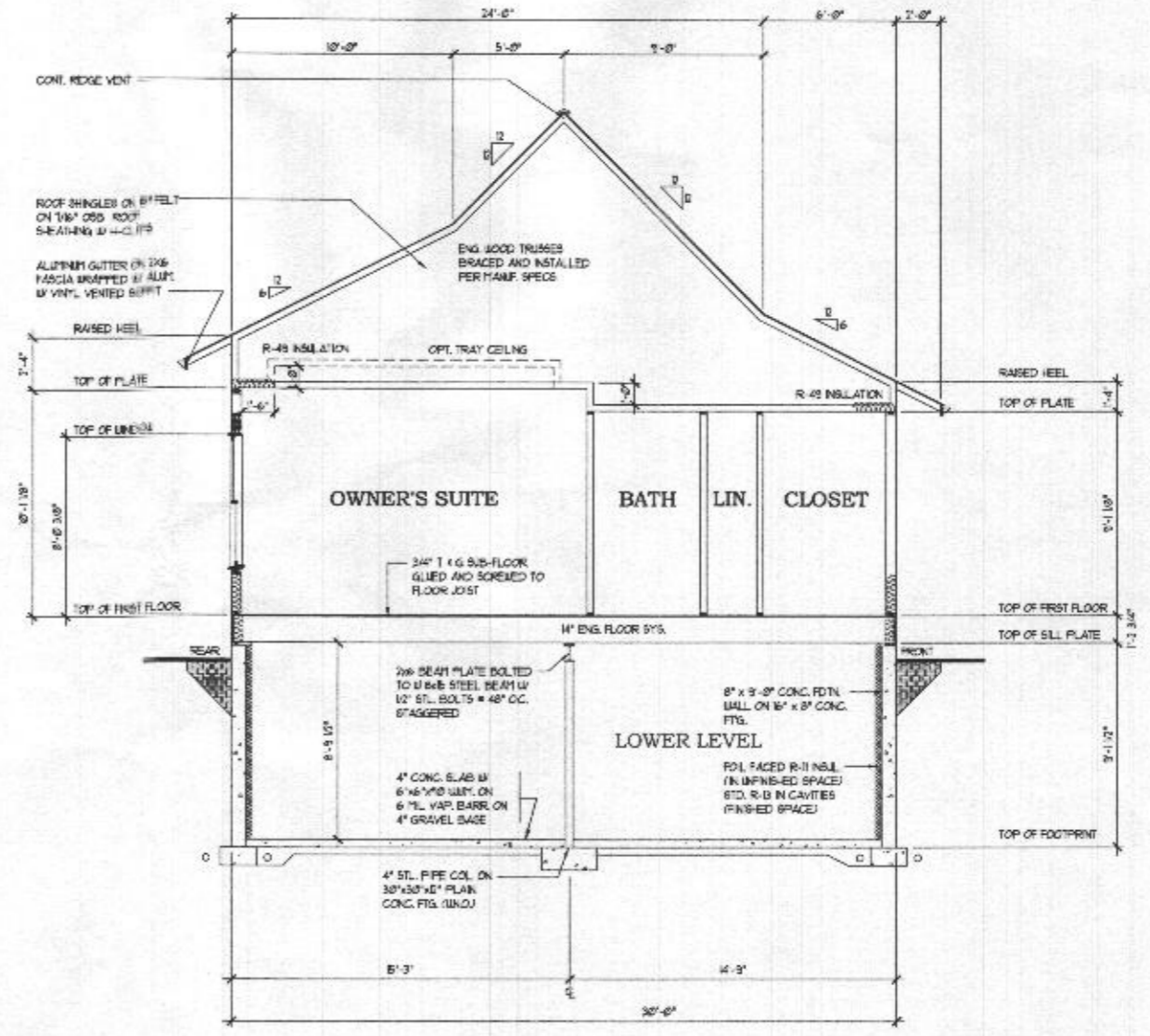
TYPICAL WALL SECTIONS  
 content  
 date 02/02/20  
 drawn: SJS  
 checked: SJS  
 title LEE STUMPF  
 STUMPF RESIDENCE

date	revision	by

SHEET 8.0  
 Professional Certification  
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed architect in the State of Maryland.  
 license number 5621  
 expiration date 04-05-2022



**BUILDING SECTION 'A-A'**  
 SCALE (17x11): 1/8" = 1'-0"  
 SCALE (34x22): 1/4" = 1'-0"



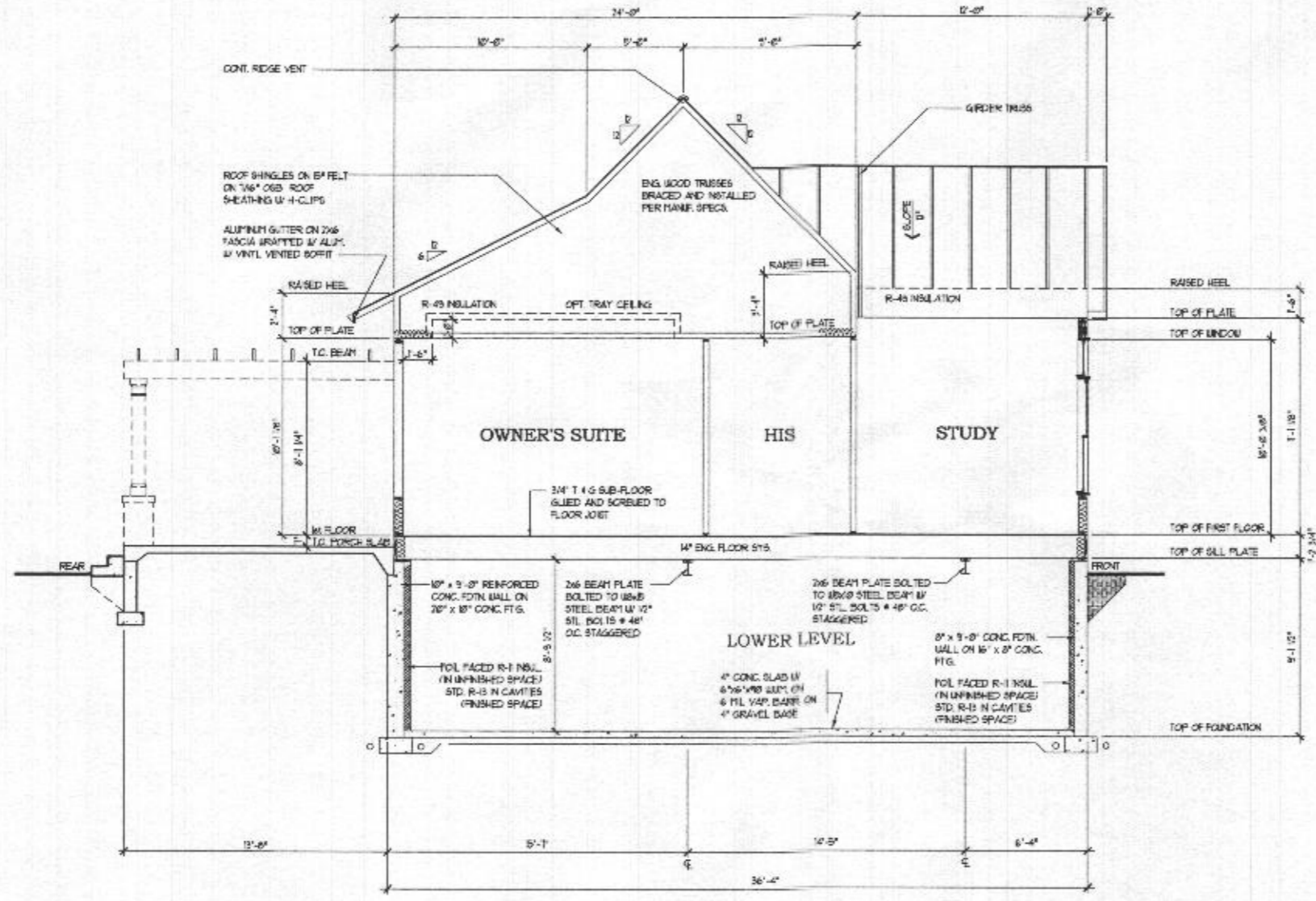
**BUILDING SECTION 'B-B'**  
 SCALE (17x11): 1/8" = 1'-0"  
 SCALE (34x22): 1/4" = 1'-0"

Architecture Collaborative, Inc.  
 8334 Main Street  
 Ellicott City, MD 21043  
 www.archcol.com  
 Tel: (410) 485-7500 Fax: (410) 485-0903

content: BUILDING SECTION A-A & B-B  
 date: 02/02/20  
 drawn: SJS  
 title: LEE STUMPF  
 STUMPF RESIDENCE

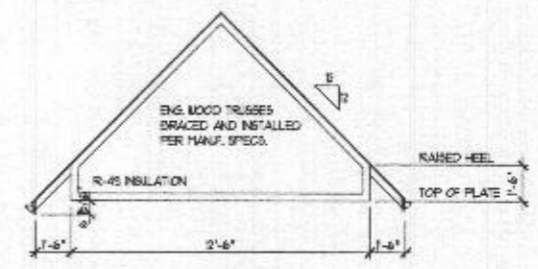
date	revision	by

SHEET 4  
 8.1  
 Professional Certification  
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland.  
 license number: 0821  
 expiration date: 04-08-2022



**BUILDING SECTION 'C-C'**

SCALE (17x11): 1/8" = 1'-0"  
 SCALE (24x36): 1/4" = 1'-0"



**TRUSS PROFILE**

SCALE (17x11): 1/8" = 1'-0"  
 SCALE (24x36): 1/4" = 1'-0"

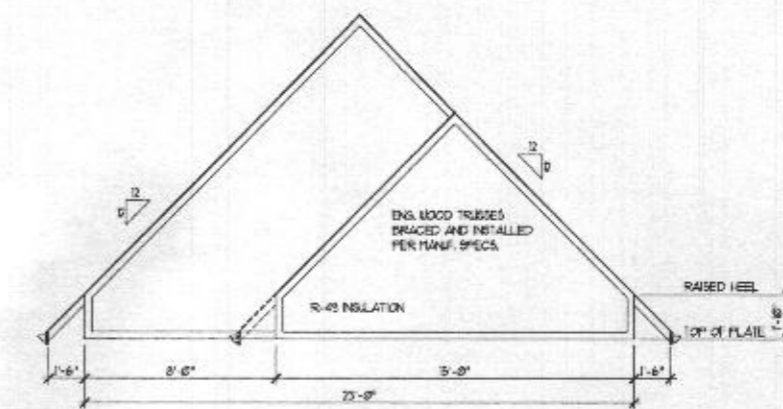
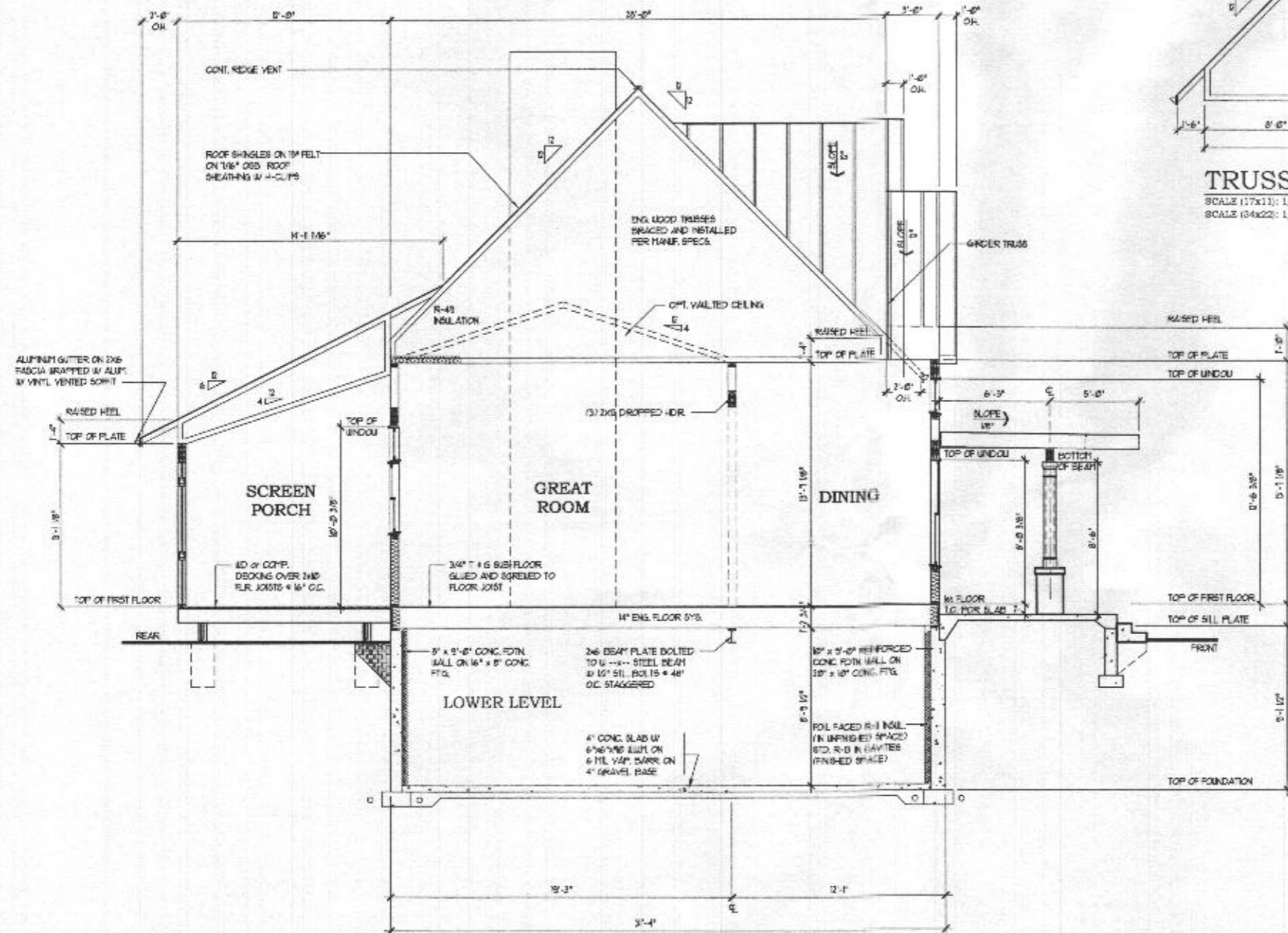
Architecture Collaborative, Inc.  
 8834 Main Street  
 Ellicott City, MD 21043  
 www.archcol.com  
 Tel.: (410) 485-7500 Fax: (410) 465-0900

content	BUILDING SECTION C-C
scale	1" = 8' (17x11) 1/8" = 1'-0" (24x36)
date	02/02/20
drawn	SJS
checked	LEE STUMPF
site	STUMPF RESIDENCE

date	revision	by

SHEET	8.2
Professional Certification	
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed architect in the State of Maryland.	
license number	04-09-002
expiration date	





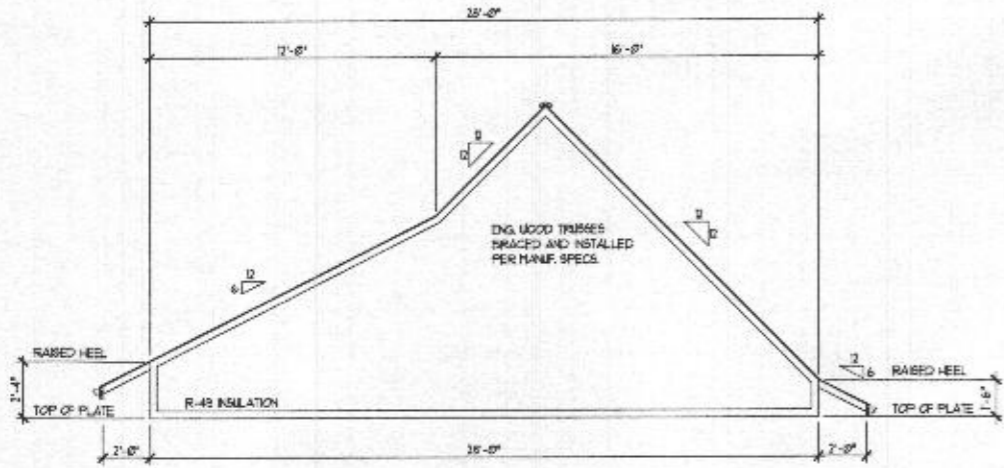
**BUILDING SECTION 'E-E'**  
 SCALE (17x11): 1/8" = 1'-0"  
 SCALE (34x22): 1/4" = 1'-0"

Architecture Collaborative, Inc.  
 8334 Main Street  
 Ellicott City, MD 21043  
 www.archcol.com  
 Tel: (410) 465-7500 Fax: (410) 465-0903

content: BUILDING SECTION E-E  
 date: 02/02/20  
 drawn: SJS  
 U.N.O. 1'-0" (7/21) 0.4  
 LEE STUMPF  
 STUMPF RESIDENCE

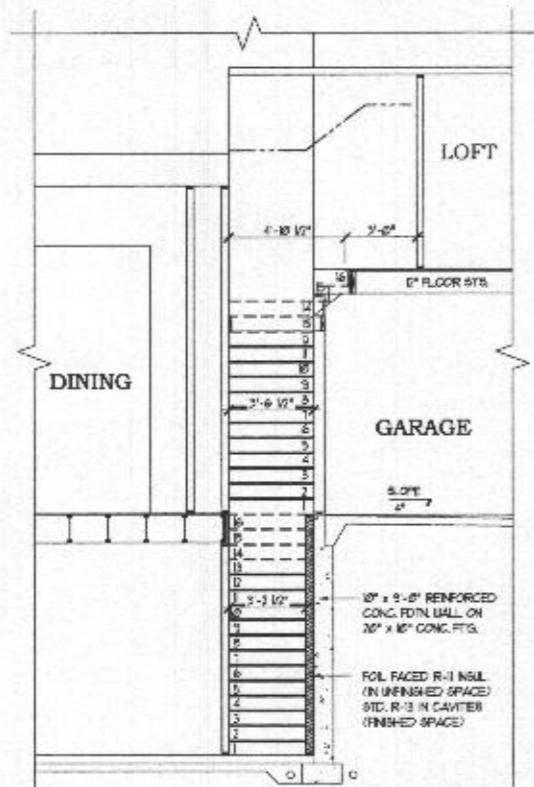
date	revision	by

SHEET #  
**8.4**  
 Professional Certification  
 I hereby certify that these documents  
 that I am a duly licensed  
 professional Architect under the laws  
 of the State of Maryland  
 license number: 5862  
 expiration date: 01-05-2022



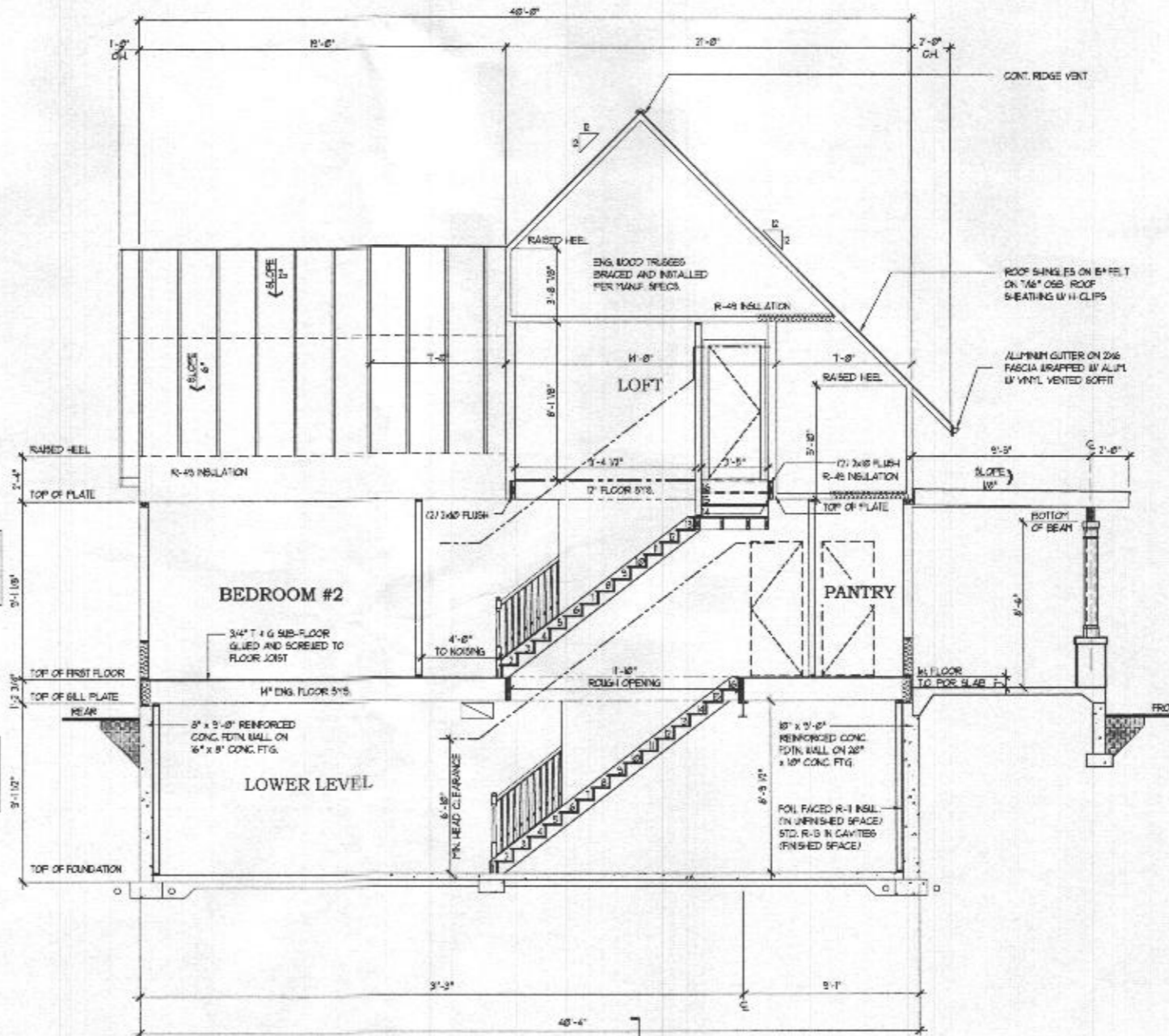
**TRUSS PROFILE**

SCALE (17x11): 1/8" = 1'-0"  
SCALE (24x36): 1/4" = 1'-0"



**STAIR SECTION 'H-H'**

SCALE (17x11): 1/8" = 1'-0"  
SCALE (24x36): 1/4" = 1'-0"



**BUILDING SECTION 'F-F'**

SCALE (17x11): 1/8" = 1'-0"  
SCALE (24x36): 1/4" = 1'-0"

© David R. Robbini expressly reserves his copyright and other property rights in these plans and drawings. These plans and drawings are not to be reproduced in any form or manner without written consent.

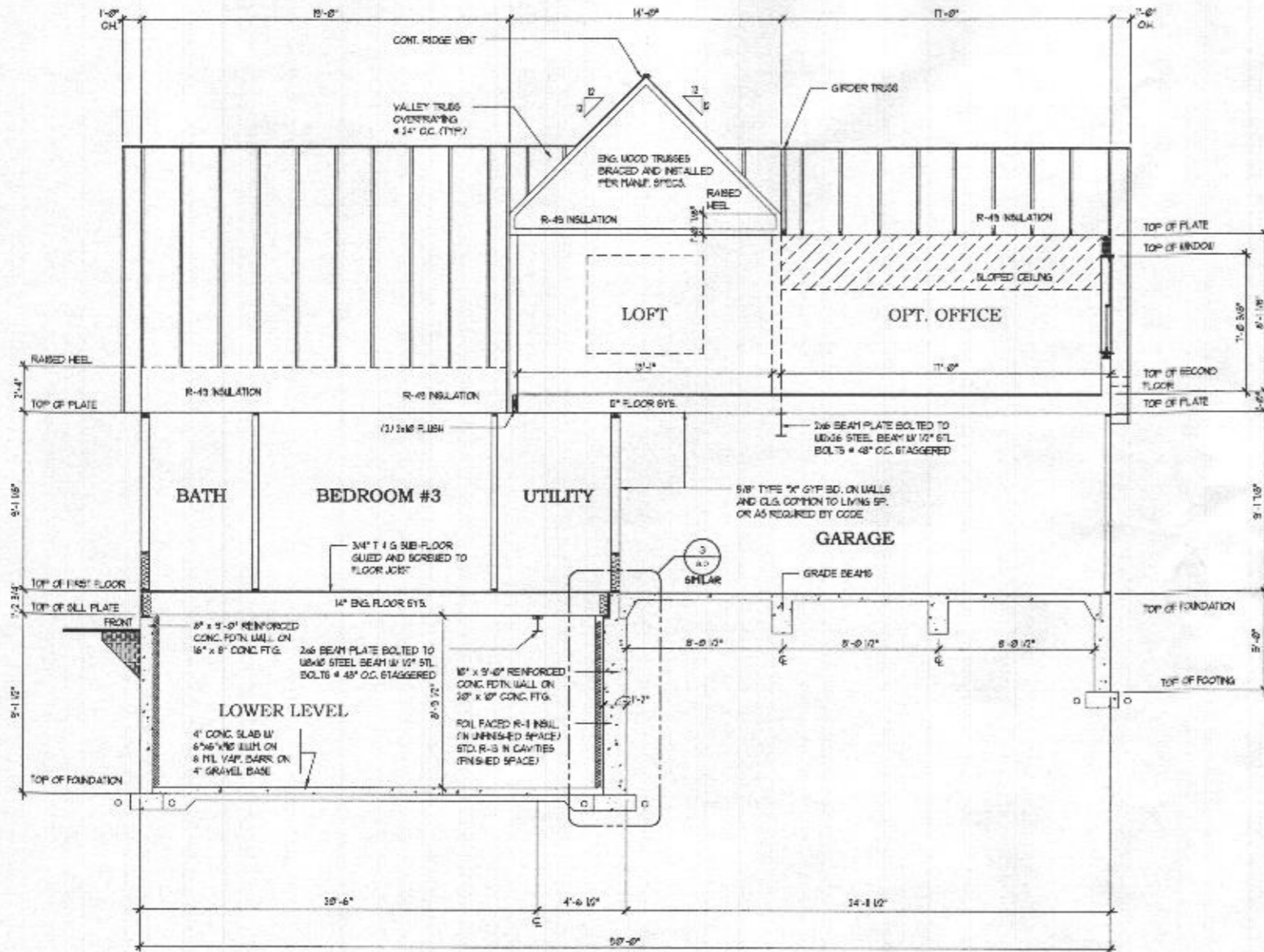
**Architecture Collaborative, Inc.**  
8334 Main Street  
Ellicott City, MD 21043  
www.archcoll.com  
Tel: (410) 485-7500 Fax: (410) 465-0903

content: **BUILDING SECTION 'F-F'**  
scale: 1" = 4' (24x36) 1/8" = 1'-0" (17x11)  
U.N.D. 1" = 8' (77x27) 1/8" = 1'-0"  
date: 02/02/20  
drawn: SJS  
title: **LEE STUMPF**  
STUMPF RESIDENCE

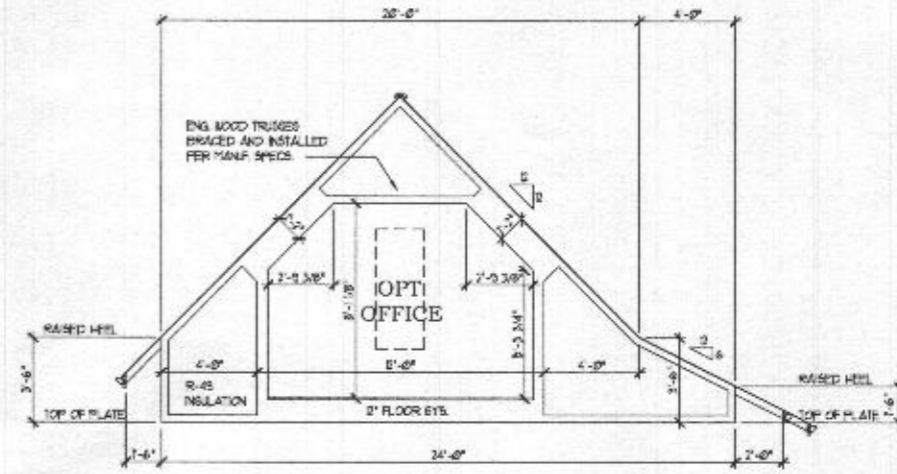
date	revision	by

Professional Certification  
I hereby certify that these documents were prepared by me, or under my direct supervision and that I am a duly licensed professional architect under the laws of the State of Maryland.  
license number: 04-05-0082  
expiration date: 04-05-2022

SHEET 8.5



**BUILDING SECTION 'G-G'**  
 SCALE (17x11): 1/8" = 1'-0"  
 SCALE (24x36): 1/4" = 1'-0"



**ATTIC TRUSS PROFILE**  
 SCALE (17x11): 1/8" = 1'-0"  
 SCALE (24x36): 1/4" = 1'-0"

© David J. Robbins expressly reserves his copyright and other property rights in these plans and drawings. These plans and drawings are not to be reproduced in any form or manner without written consent.

Architecture Collaborative, Inc.  
 8334 Main Street Ellicott City, MD 21043  
 www.archcol.com  
 Tel.: (410) 465-7500 Fax: (410) 465-0903

content	BUILDING SECTION 'G-G'
scale	1" = 4' (24x36) 1/8" = 1'-0' (17x11) 1/4" = 1'-0'
date	02/02/20
drawn	SJS
title	LEE STUMPF STUMPF RESIDENCE

date	revision	by

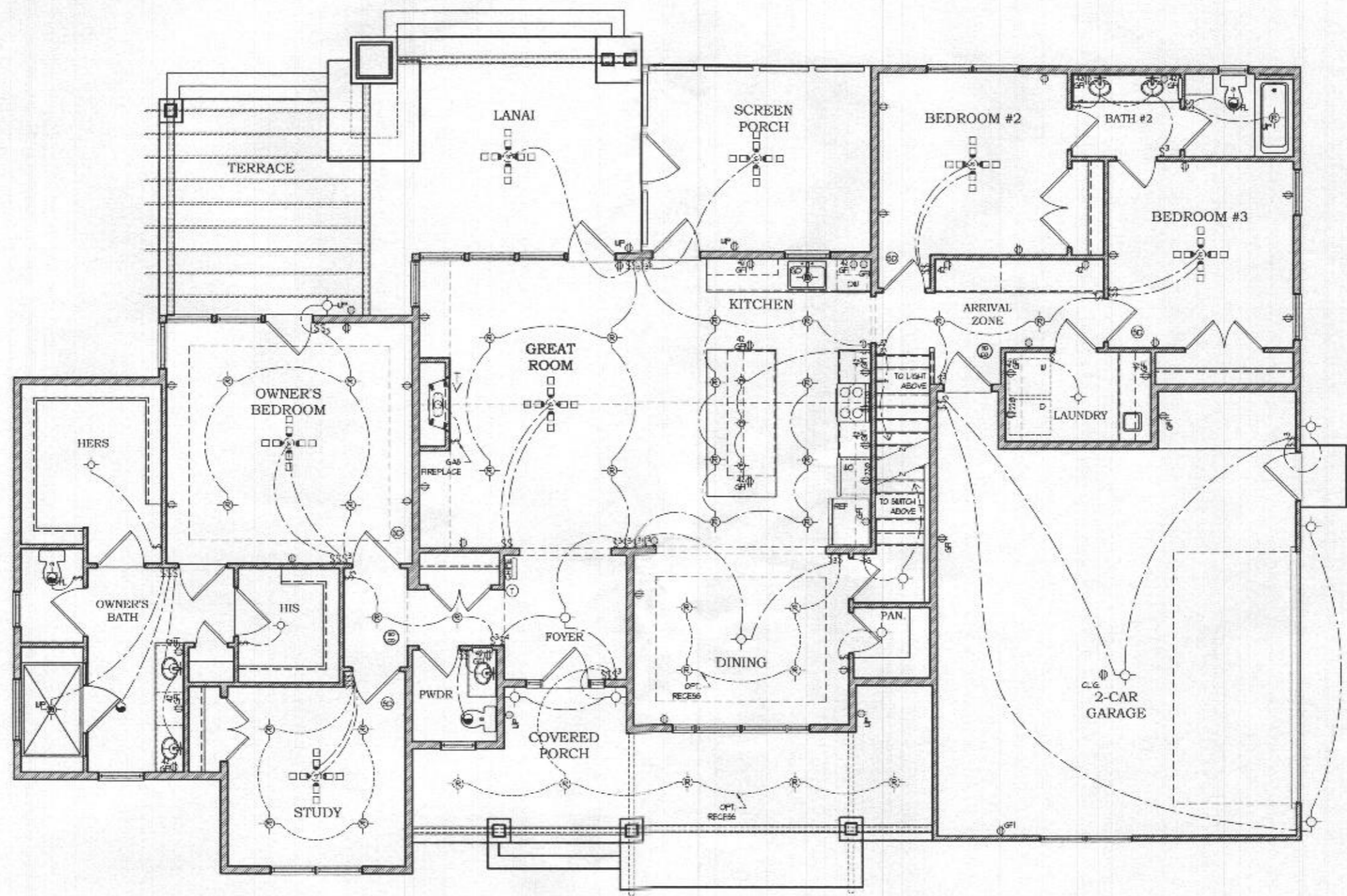
Professional Certification	
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland.	
license number	3021
expiration date	04-05-2022
SHEET	8.6

2018 IRC  
ELECTRICAL NOTES:  
CHAPTER 34

- PROVIDE SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS WIRING TO A NEARBY CIRCUIT (WITH BATTERY BACKUP) AND INTER-CONNECTED FOR SIMULTANEOUS ACTIVATION (AS REQUIRED BY CODE).
- ELECTRICAL OUTLETS LOCATED IN GARAGES, KITCHEN, FOLDING ROOM, BATH ROOMS, LAUNDRY AREA, CRAWL SPACES AND THE EXTERIOR ARE TO BE GFCI PROTECTED AS REQUIRED BY CODE.
- PROVIDE SWITCH BY KEYLESS LIGHT IN ATTIC SPACES.
- THESE DRAWINGS ARE SCHEMATIC ONLY.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL ELECTRICAL SYSTEMS.
- ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, THE LOCAL POWER COMPANY AND ALL APPLICABLE CODES.
- FIXTURES AND APPARATUS ARE SELECTED BY THE BUILDER AND SHALL BE ILL APPROVED.

**ELECTRICAL SYMBOLS**

⊕	DUPLEX OUTLET 8" AFF.
⊕	DUPLEX OUTLET 4" AFF.
⊕	DUPLEX OUTLET 18" AFF. HALF SWITCHED
⊕	220 VOLT DUPLEX OUTLET
⊕	WATERPROOF RECEPTACLE
⊕	GROUND FAULT INTERRUPTER
⊕	GROUND FAULT INTERRUPTER 4" AFF.
S	WALL SWITCH
S <sub>3</sub>	3-WAY WALL SWITCH
S <sub>4</sub>	4-WAY WALL SWITCH
S <sub>D</sub>	DINNER WALL SWITCH
⊕	EXHAUST FAN
⊕	FANLIGHT COMBO
⊕	LIGHT FIXTURE CEILING MOUNTED
⊕	LIGHT FIXTURE RECESSED LIGHT
⊕	FIXTURE HALL CHAIN
⊕	FLUORESCENT LIGHT FIXTURE
⊕	FLOOD LIGHTS
⊕	LIGHT FIXTURE WALL MOUNTED
⊕	THERMOSTAT
⊕	JUNCTION BOX
⊕	DOOR CHIME
⊕	TELEPHONE JACK
⊕	TELEVISION JACK
⊕	GARAGE DISPOSAL
⊕	SMOKE DETECTOR
⊕	CARBON MONOXIDE DETECTOR
⊕	COMBINATION SMOKE-CARBON DETECTOR
⊕	ELECTRIC PANEL
⊕	ELECTRIC METER
⊕	INTERCOM
⊕	INTERCOM CONSOLE



**ELECTRICAL PLAN  
FIRST FLOOR**  
SCALE: (17x11): 1/8" = 1'-0"  
SCALE: (24x36): 1/4" = 1'-0"

Architecture Collaborative, Inc.  
8334 Main Street  
Ellicott City, MD 21043  
www.archcol.com  
Tel: (410) 485-7500  
Fax: (410) 465-0903

content: ELECTRICAL PLAN - FIRST FLOOR  
date: 02/02/20  
drawn: SIS  
checked: JES  
title: LEE STUMPF  
STUMPF RESIDENCE

date	revision	by

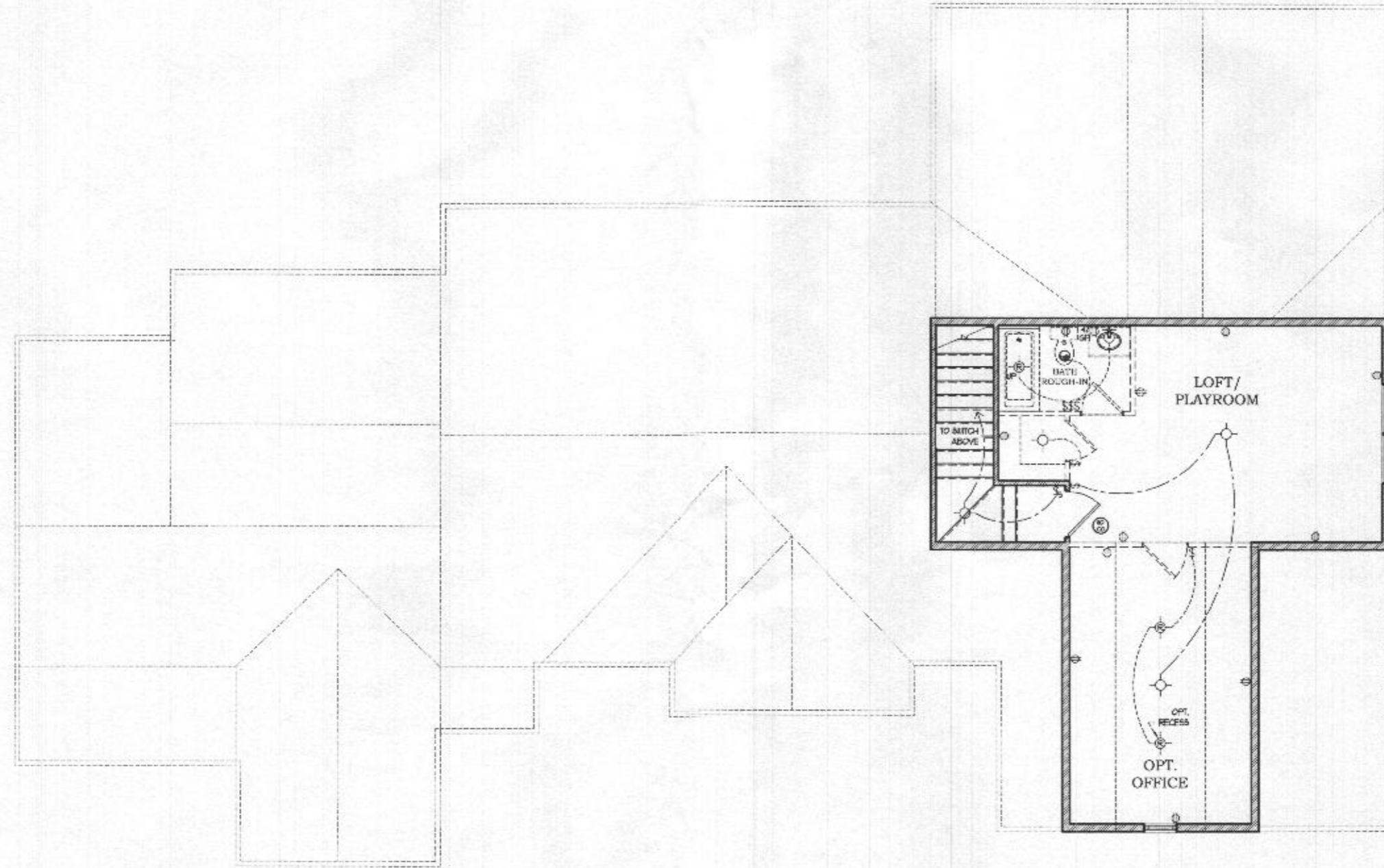
Professional Certification  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional in the State of Maryland.  
license number: 5681  
expiration date: 04-05-2022

2015 IRC  
ELECTRICAL NOTES:  
CHAPTER 34

- PROVIDE SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS WIRED TO A NEARBY CIRCUIT (WITH BATTERY BACKUP) AND INTER-CONNECTED FOR SIMULTANEOUS ACTIVATION (AS REQUIRED BY CODE).
- ELECTRICAL OUTLETS LOCATED IN GARAGES, KITCHEN, POUWER ROOM, BATH ROOMS, LAUNDRY AREA, CRAWL SPACES AND THE EXTERIOR ARE TO BE GFCI PROTECTED AS REQUIRED BY CODE.
- PROVIDE SWITCH & KEYLESS LIGHT IN ATTIC SPACES.
- THESE DRAWINGS ARE SCHEMATIC ONLY.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL ELECTRICAL SYSTEMS.
- ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, THE LOCAL POWER COMPANY AND ALL APPLICABLE CODES.
- FIXTURES AND APPARATUS ARE SELECTED BY THE BUILDER AND SHALL BE UL APPROVED.

ELECTRICAL SYMBOLS

- ⊙ DUPLEX OUTLET 15' AFF.
- ⊙<sub>42</sub> DUPLEX OUTLET 42" AFF.
- ⊙ DUPLEX OUTLET 15' AFF. HALF SWITCHED
- ⊙<sub>220</sub> 220 VOLT DUPLEX OUTLET
- ⊙<sub>3P</sub> 3-PHASE RECEPTACLE
- ⊙<sub>GF</sub> GROUND FAULT INTERRUPTER
- ⊙<sub>GF</sub> GROUND FAULT INTERRUPTER 42" AFF.
- S WALL SWITCH
- S<sub>3</sub> 3-WAY WALL SWITCH
- S<sub>4</sub> 4-WAY WALL SWITCH
- S<sub>3</sub> DIMMER WALL SWITCH
- ⊙ EXHAUST FAN
- ⊙<sub>R</sub> FAN LIGHT COORD.
- ⊙ LIGHT FIXTURE CEILING MOUNTED
- ⊙<sub>R</sub> LIGHT FIXTURE RECESSED LIGHT
- ⊙<sub>FC</sub> FLUORESCENT LIGHT FIXTURE
- ⊙ FLOOD LIGHTS
- ⊙<sub>M</sub> LIGHT FIXTURE WALL MOUNTED
- ⊙ THERMOSTAT
- ⊙ JUNCTION BOX
- ⊙<sub>CL</sub> DOOR CHIME
- ⊙ TELEPHONE JACK
- ⊙ TELEVISION JACK
- ⊙<sub>GD</sub> GARBAGE DISPOSAL
- ⊙<sub>SD</sub> SMOKE DETECTOR
- ⊙<sub>CD</sub> CARBON MONOXIDE DETECTOR
- ⊙<sub>CS</sub> COMBINATION SMOKE-CARBON DETECTOR
- ⊙<sub>EP</sub> ELECTRIC PANEL
- ⊙<sub>EM</sub> ELECTRIC METER
- I INTERCOM
- I<sub>C</sub> INTERCOM CONSOLE



ELECTRICAL PLAN  
SECOND FLOOR

SCALE: (17x1) 1/8" = 1'-0"  
SCALE: (36x24) 1/4" = 1'-0"

Architecture Collaborative, Inc.  
8334 Main Street  
Ellicott City, MD 21043  
www.archcol.com  
Tel.: (410) 465-7500 Fax: (410) 465-0903

content: ELECTRICAL PLAN - SECOND FLOOR  
date: 02/02/20  
drawn: SJS  
title: LEE STUMPF STUMPF RESIDENCE

date	revision	by

SHEET #  
E2.1

Professional Certification  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer in the State of Maryland.

license number: 882  
expiration date: 01-10-2022

**CONNECTION SPECIFICATIONS (TYP. U.N.O.)**

DESCRIPTION OF BLDG. ELEMENT	3"x0.13" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PLATE TO JOIST/BLK'S	(3) NAILS @ 4" O.C.	(3) NAILS @ 4" O.C.
STUD TO SOLE PLATE	(2) TOENAILS	(3) TOENAILS*
TOP OR SOLE PLATE TO STUD	(2) NAILS	(3) NAILS
RIM TO TOP PLATE	TOENAILS @ 8" O.C.	TOENAILS @ 6" O.C.*
BLK'S BTWN JOISTS TO TOP PL.	(3) TOENAILS	(3) TOENAILS*
DOUBLE STUD	NAILS @ 24" O.C.	NAILS @ 16" O.C.
DOUBLE TOP PLATE	NAILS @ 24" O.C.	NAILS @ 16" O.C.
DOUBLE TOP PLATE LAP SPLICE	(3) NAILS IN LAPPED AREA	(3) NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(2) NAILS	(2) NAILS

\* 3"x0.120" IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.130", SAME SPACING OR NUMBER OF NAILS. ONLY ACCEPTABLE WHERE \* ARE SHOWN

**ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER**

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN. MULHERN + KILP CANNOT BE HELD RESPONSIBLE FOR ANY STRUCTURAL ISSUES RELATED TO ANY BUILDING COMPONENT IF COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED TO MK FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

TRUSSES/JOISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLASH BEAMS DO NOT EXCEED THE FOLLOWING:

- ROOF TRUSSES:
  - 1/4" DEAD LOAD
  - FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS: 1/8" DEAD LOAD
- ABSOLUTE DEAD LOAD DEFLECTION OF FLOOR TRUSSES/ATTIC TRUSSES WHEN ADJACENT TO FLOOR FRAMING BY OTHERS SHALL BE LIMITED TO 3/16", NOT DIFFERENTIAL DEFLECTION

**STEEL CONNECTION SPECIFICATIONS (TYP. U.N.O.)**

CONNECTION TYPE	CONNECTION SPECIFICATION
STEEL BEAM TO STL. COLUMN	GAP: (2) 1/2" DIA. HOLE IS THAN THE BOTTOM FLANGE TO THE TOP FLANGE OR GAP DESIGNED BY OTHERS WITH PROPRIETARY GAP CLIPS BASE: (2) 1/2" DIA. HOLE ANCHORS THRU STEEL BASE PLATE TO CONC. ANCHORS NOT REQUIRED IF BASE IS ENCASED IN CONCRETE
STEEL BRG ON WOOD FRAME	BOTTOM FLANGE OF STEEL BEAM FASTENED TO WOOD FRAMING W/ (2) 1/2" DIA. X 2 1/2" LONG LAG SCREWS
WOOD BRG ON STEEL COL.	(2) 1/2" DIA. X 2 1/2" LONG LAG SCREWS THRU GAP PLATE INTO BOTTOM OF WOOD BEAM
STEEL BEAM IN BEAM POCKET	CLIP ANGLES BOLTED TO THE BEAM USING A MINIMUM OF 1/2" DIA. BOLTS. CLIP ANGLE ATTACHED TO THE FOUNDATION WALL USING NO LESS THAN (2) 1/2" DIA. ANCHORS. - OR - BEAM POCKET GROUDED AROUND STEEL BEAM

**LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS**

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM 115 MPH WIND IN 2018 IRC MAP (115 MPH WIND SPEED IN ASCE 7-16 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. AVB.

THE DESIGN WAS COMPLETED PER 2018 IRC SECTION 1601.8 & ASCE 7-16, AS PERMITTED BY RESULTS OF THE 2018 IRC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2018 IRC IF THE PARAMETERS OF SECTION R602.1.2 COMPLY. ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

**EXT. WALL SHEATHING SPECIFICATION**

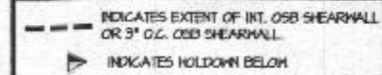
- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 1/2" X 0.131" NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN PANEL FIELD. (TYP. U.N.O.)
- HORIZONTAL BLOCKING OF EXT. WALLS/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1/8" @ 6 GA STAPLES (1/4" ROUNO) @ 3" O.C. AT EDGES & @ 6" O.C. IN FIELD.

**3" O.C. EDGE NAILING**

- AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 2 1/2" X 0.131" NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

**NOTES**

- REFERS TO LATERAL BRACING DETAIL SHEET.
- TYP. LETTER DETAILS ARE NOT LABELED ON PLAN.
- "NUMBERED" DETAILS ARE REFERENCED ON PLAN.
- DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, UNO.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- ALL SHEAR WALLS SHALL HAVE DOUBLE TOP PLATES FASTENED TOGETHER W/ 1/2" NAILS @ 6" O.C. PROVIDE (2) 1/2" DIA. AT EACH LAP SPLICE, (6) EACH SIDE OF JOINT.
- PRE-FABRICATED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" X 0.131" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)



**MEANS & METHODS NOTES**

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUY, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO, FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY, OR WARRANTY TOLERANCES.

**GENERAL STRUCTURAL NOTES**

**ROOF FRAMING**

- ROOF SHEATHING SHALL BE 1/8" A.P.A. RATED SHEATHING 24/6 EXPOSURE 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS:
  - W/ 2 1/2" X 0.131" NAILS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.
  - W/ 2 1/2" X 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD.
  - W/ 2 1/2" X 0.118" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. FIELD.
- WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIP'S FASTEN ROOF SHEATHING FIELDS PER EDGE NAILING SPEC.
- FASTEN EACH ROOF RAFTER TO TOP PLATE WITH (1) SIMPSON H2.5T CLIP. PROVIDE (2) H2.5T CLIPS AT FLUSH BEAMS IN THE ROOF.
- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H2.5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, UNO.
- ROOF TRUSS SHOP DRWS. SHALL BE SUBMITTED TO ARCH & ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- ERECT AND INSTALL ROOF TRUSSES PER MFG. & TP15 BCSI 1 (GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.)
- SUPPORT SHORT SPAN ROOF TRUSSES W/ 2x4 LEDGER FASTENED TO FRAMING W/ (2) 3" X 0.120" NAILS @ 16" O.C. (UP TO 7 SPAN).

**FOUNDATION**

- DESIGN IS BASED ON 2018 INTERNATIONAL RESIDENTIAL CODE W/ BALTIMORE COUNTY AMENDMENTS
- FOOTING DESIGN - 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x4x6 SILL PLATES TO CONC. FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:
  - 1/2" DIA. ANCHOR BOLTS @ 6'-0" O.C. MIN. EMBEDMENT
  - 1/2" DIA. X 6" LONG SIMPSON TITEN HD @ 6'-0" O.C.
  - SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ PERIMETER FOUNDATION SHALL BE PRESERVATIVE TREATED SOUTHERN PINE 12.
- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- FOUNDATION WALLS & FOOTINGS SHALL BE PLAIN CONCRETE, UNO.
- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, UNO:
  - f<sub>c</sub> = 4,000 psi --- FOUNDATION WALLS
  - 3,000 psi --- FOOTINGS & INTERIOR SLABS ON GRADE
  - 3,500 psi --- GARAGE & EXTERIOR SLABS ON GRADE
  - f<sub>y</sub> = 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
  - 8' OR 9' HEIGHT (AS NOTED ON PLANS)
  - TALLER WALLS MUST BE ENGINEERED.
- BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATION:
  - 60 PCF SOIL TYPE (S, M, CL, OR CL)
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1x6 FLOOR DECK.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT. WALL WITH 2" CLEAR. REINFORCEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.
  - FOR OPENINGS UP TO 36", PROVIDE MINIMUM 10" CONCRETE DEPTH OVER OPENING OR (3)2x10 W/ (2)2x6 JACK STUDS, UNO.
  - LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 1% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE (TYP.) OR 12" MIN IN REGIONS WHERE CODE FROST DEPTH IS NOT APPLICABLE. CONSULT SOILS REPORT OR BUILDING DEPT. FOR MINIMUM DEPTH BELOW GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.
  - JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM)
  - JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARE AS POSSIBLE (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO
  - CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS
- TYPICAL REINFORCEMENT DETAILS. PROVIDE 3" MIN. CLEAR COVER WHERE CAST AGAINST EARTH, 1 1/2" MIN. CLEAR COVER AGAINST FORMS. LAP ALL REBAR 48 BAR DIAMETERS MK (24" FOR #4 BARS) & BEND BARS AND LAP AT CORNERS. PROVIDE 6" HOOK INTO SUPPORTING FOOTINGS WHEN FOOTINGS INTERSECT.
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.

**GENERAL STRUCTURAL NOTES**

- DESIGN IS BASED ON 2018 INTERNATIONAL RESIDENTIAL CODE
- WOOD FRAME ENGINEERING IS BASED ON NDS, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - LATEST EDITION
- DESIGN LOADS:
  - ROOF: SNOW = 25 PSF (30 PSF GROUND SNOW, UNO)  
DEAD = 1 PSF T.C., 10 PSF B.C.  
LOAD DURATION FACTOR = 1.5
  - FLOOR: LIVE = 40 PSF (50 PSF @ SLEEPING AREAS)  
DEAD = 10 PSF (11 JOISTS & SOLID SAWN)  
ADDL. 10 PSF @ CERAMIC TILE IN KITCHEN, BATHS, POKY, LAUND. & MUDRMS
  - SOIL: 2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

**GENERAL FRAMING**

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE (IRC TABLE R602.3.1) OR ON PLANS. ALL NAILS SPECIFIED ARE MIN. DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX. CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- EXT. & INT. BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SPT "STUD" GRADE LUMBER, OR BETTER, UNO.
  - WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL INTERIOR BEARING WALLS ARE ASSIGNED TO BE SHEATHED W/ 5/8" GYP WALL BOARD (ONE SIDE MIN) OR PROVIDE MID HT. BLOCKING.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE MEM-FIR #2 (NF) LUMBER, OR BETTER. SUPPORT ALL HEADERS/ BEAMS W/ (1)2x JACK STUD @ (1)2x KING STUD, MINIMUM.
  - THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, UNO.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x "STUD" GRADE MEMBERS SPACED @ 24" O.C. (MAX. UNO.)
  - HEADERS IN NON-LOAD BEARING WALLS SHALL BE (1)2x4x6 FLAT @ OPENINGS UP TO 4', (2)2x4x6 FLAT UP TO 6'.
- ALL FRAMING LUMBER SHALL BE DRIED TO 5% MC (1D-1S).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:
  - 1.5L - Fb=2325 psi, Fv=310 psi, E=1,550,000 psi
  - 1.5L - Fb=2600 psi, Fv=285 psi, E=2,000,000 psi
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:
  - 1.5L - Fb=2400 psi, FcH=2500 psi, E=1,800,000 psi
  - 1.5L - Fb=2400 psi, FcH=2500 psi, E=1,800,000 psi
- FOR 2 & 3 FLY BEAMS OF EQUAL 1 1/2" MAX. WIDTH FASTEN PILES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O.C. OR 2 ROWS 1/2"x3/4" SIMPSON S05 SCREWS (OR 3/8" TRUSLOCK SCREWS) @ 16" O.C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3/8" OR 5/8" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 & 2x8 MEMBERS.
- FOR 4 FLY BEAMS OF EQUAL 1 1/2" MAX. WIDTH FASTEN PILES TOGETHER WITH 3 ROWS OF 1/2"x3/4" SIMPSON S05 SCREWS (OR 6 3/4" TRUSLOCK SCREWS) @ 16" O.C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSLOCK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE. A SOLID 1" BEAM IS ACCEPTABLE.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND.BEARING. BLOCKING TO MATCH POST ABOVE.
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s (NLT 1/2" XU PINS OR EQUAL) @ 16" O.C. STAGGERED, OR 1/2" DIA. BOLTS @ 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP & ANCHOR BASE, UNO.
- STEEL PIPE COLUMN 'ASD CAPACITIES' SHALL MEET OR EXCEED THE LOADS PROVIDED AT EACH STEEL PIPE COLUMN LOCATION ON PLAN. COLUMNS ARE TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENT THAT ACHIEVES THE RATED CAPACITY USED, INCLUDING BUT NOT LIMITED TO POSITIVE CONNECTIONS AT THE TOP AND BOTTOM OF THE COLUMN. TWO COLUMNS MAY BE USED UNDER CONTINUOUS BEAMS TO ACHIEVE THE FULL PLAN SPECIFIED REQUIRED CAPACITY IF INSTALLED CENTERED ON THE EXISTING FOOTING/ PLAN SPECIFIED SINGLE COLUMN LOCATION.

**FLOOR FRAMING**

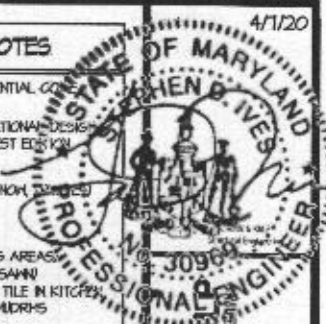
- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANIF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES STONE/MARBLE OR MET BED CONSTRUCTED FLOORS - CONTACT MK FOR EXCLUDED FLOOR DESIGNS)
- PER THE GUIDELINES OF THE TILE COUNCIL OF NORTH AMERICA (TCA HANDBOOK), IT SHALL BE THE FLOOR FINISH INSTALLERS RESPONS. TO VERIFY THAT THE FINISHES TO BE INSTALLED MATCH THE DESIGN CRITERIA NOTED ABOVE (UNDER "DESIGN LOADS")
- AT I-JOIST FLOORS, PROVIDE 1 1/8" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, UNO.
- I-JOIST/TRUSS SHOP DRWS. SHALL BE SUBMITTED TO ARCH & ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 5/16D-FLOOR 24" O.C. EXPOSURE 1 (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W/ 6/16" AND:
  - 2 1/2" X 0.131" NAILS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.
  - 2 1/2" X 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD.
  - 2 1/2" X 0.118" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.

**PROFESSIONAL CERTIFICATE**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND

LICENSE NO. 30969

EXPIRATION DATE: 10/14/20



MSA project number: 093-20008  
 prepared by: JTR  
 drawn by: SEH  
 issue date: 04-07-20  
 REVISED:  
 date: N/A

ARCHITECTURE  
 COLLABORATIVE, INC.

GEN. STRUCT. NOTES  
 STUMPF RESIDENCE  
 HOWARD CO., MD

30969  
**SO.0**