



# Building Permit Application

Howard County Maryland  
Department of Inspections, Licenses and Permits  
3430 Court House Drive  
Permits: 410-313-2455  
www.howardcountymd.gov

Date Received: \_\_\_\_\_

Permit No.: \_\_\_\_\_

Building Address: 14821 Burntwoods Rd  
City: Glenwood State: MD Zip Code: 21738  
Suite/Apt. # \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_  
Census Tract: 604002 Subdivision: Warfield Estates  
Section: \_\_\_\_\_ Area: \_\_\_\_\_ Lot: \_\_\_\_\_  
Tax Map: 21 Parcel: 189 Grid: 4  
Zoning: RR-DEO Map Coordinates: \_\_\_\_\_ Lot Size: 3.63Ac

Existing Use: SF Dwelling  
Proposed Use: SF Dwelling  
Estimated Construction Cost: \$ 15,000  
Description of Work: add 18x11 screen room

Occupant/Tenant Name: Christopher Choi  
Was tenant space previously occupied?  Yes  No  
Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Property Owner's Name: Christopher Choi  
Address: 14821 Burntwoods Rd  
City: Glenwood State: MD Zip Code: 21738  
Phone: (301) 312-1791 Fax: \_\_\_\_\_  
Email: christopher.choi@tech-usa.com

Applicant's Name & Mailing Address, (if other than stated herein)  
Applicant's Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Contractor Company: \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
License No.: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Engineer/Architect Company: \_\_\_\_\_  
Responsible Design Prof.: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Commercial Building Characteristics	Residential Building Characteristics
Height: _____	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories: _____	Depth _____ Width _____
Gross area, sq. ft./floor: _____	1 <sup>st</sup> floor: <u>18'</u> <u>41'</u>
Area of construction (sq. ft.): _____	2 <sup>nd</sup> floor: _____
Use group: _____	Basement: _____
Construction type: _____	<input type="checkbox"/> Finished Basement
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Unfinished Basement
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space
<input type="checkbox"/> Masonry	<input checked="" type="checkbox"/> Slab on Grade
<input type="checkbox"/> Wood Frame	No. of Bedrooms: <u>2</u>
<input type="checkbox"/> State Certified Modular	<u>Multi-family Dwelling</u>
<input checked="" type="checkbox"/> Roadside Tree Project Permit	No. of efficiency units: _____
<input type="checkbox"/> Yes <input type="checkbox"/> No	No. of 1 BR units: _____
Roadside Tree Project Permit # _____	No. of 2 BR units: _____
	No. of 3 BR units: _____
	Other Structure: _____
	Dimensions: _____
	Footings: _____
	Roof: _____
	<input type="checkbox"/> State Certified Modular
	<input type="checkbox"/> Manufactured Home

Utilities	
Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Gas: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<u>Water Supply</u>	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
<u>Sewage Disposal</u>	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
<u>Heating System</u>	
<input checked="" type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other: _____	
<u>Sprinkler System:</u>	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Grading Permit Number: _____	
Building Shell Permit Number: _____	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: \_\_\_\_\_  
Email Address: chris md@outlook.com  
Title/Company: \_\_\_\_\_

Print Name: Christopher Choi  
Date: 5/16/18

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

\*\*PLEASE WRITE NEATLY & LEGIBLY\*\*

-FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA ( Zoning )		
PSZA ( Engineering )		
Health	<u>5/16/18</u>	<u>H. Oswald</u>

DPZ SETBACK INFORMATION
Front: _____
Rear: _____
Side: _____
Side St.: _____
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone: _____
SDP/Red-line approval date: _____

Filing Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	#

Is Sediment Control approval required for issuance?  Yes  No  
 CONTINGENCY CONSTRUCTION START

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA

1" = 60'



14821 Burntwoods rd  
Glenwood, MD, 21738

scale 1" = 60'

Location data

Location	Elevation
a	540
b	540
c	540
d	540
e	548
f	540
g	547
h	545
i	538
j	528
k	524
l	522

**APPROVED**  
**WALK-THRU BUILDING PERMIT**  
 BP# \_\_\_\_\_ A# \_\_\_\_\_  
 APP. SAN H. Oswald DATE: 5/16/18  
 DESC. OF WORK: Add 18' x 41'  
Sunroom.

14821 Burntwoods Road

60' length boundary 1

9/13/99 12-2 1/2 later  
9/14/99 10:00

# PERMIT

## SEWAGE DISPOSAL SYSTEM

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 512699

A REPAIR

04-337115

DISTRICT \_\_\_\_\_

DATE 8-9-99

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
410-313-2640

INDEXED

DATE SYSTEM APPROVED 9/14/99

INSPECTOR SRW

Hatfield's Equipment and Dedication SVCS., Inc. IS PERMITTED TO INSTALL \_\_\_\_\_ ALTER X  
ADDRESS 13785 Burntwoods Road, Glenelg, Maryland 21737 PHONE 301-854-6172

SUBDIVISION Warfield's Estates LOT 31, Blk.C ROAD 14821 Burntwoods Road

PROPERTY OWNER Williams D. Bowling III  
ADDRESS 14821 Burntwoods Road  
Glenwood, Maryland 21738

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

3  
180  
4  
720

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 180

REPAIR - PURPOSE - IN SUPPORT OF FUTURE BUILDING PERMIT APPLICATION FOR A 3 BEDROOM ADDITION.  
Call for inspection when ground is opened so sanitarian can recommend repair.

9-14-98  
Inlet 3.0 Bottom 7.0

Begin trenches @ test note B - also abandon existing septic system  
@ time of repair AM

PLANS APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS. 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

BLDG. # 42-1115 SIGNED  
AND RETURNED 9-17-98

PERMIT VOID AFTER TWO YEARS

Serial # B0114066

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

3 Story addition

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

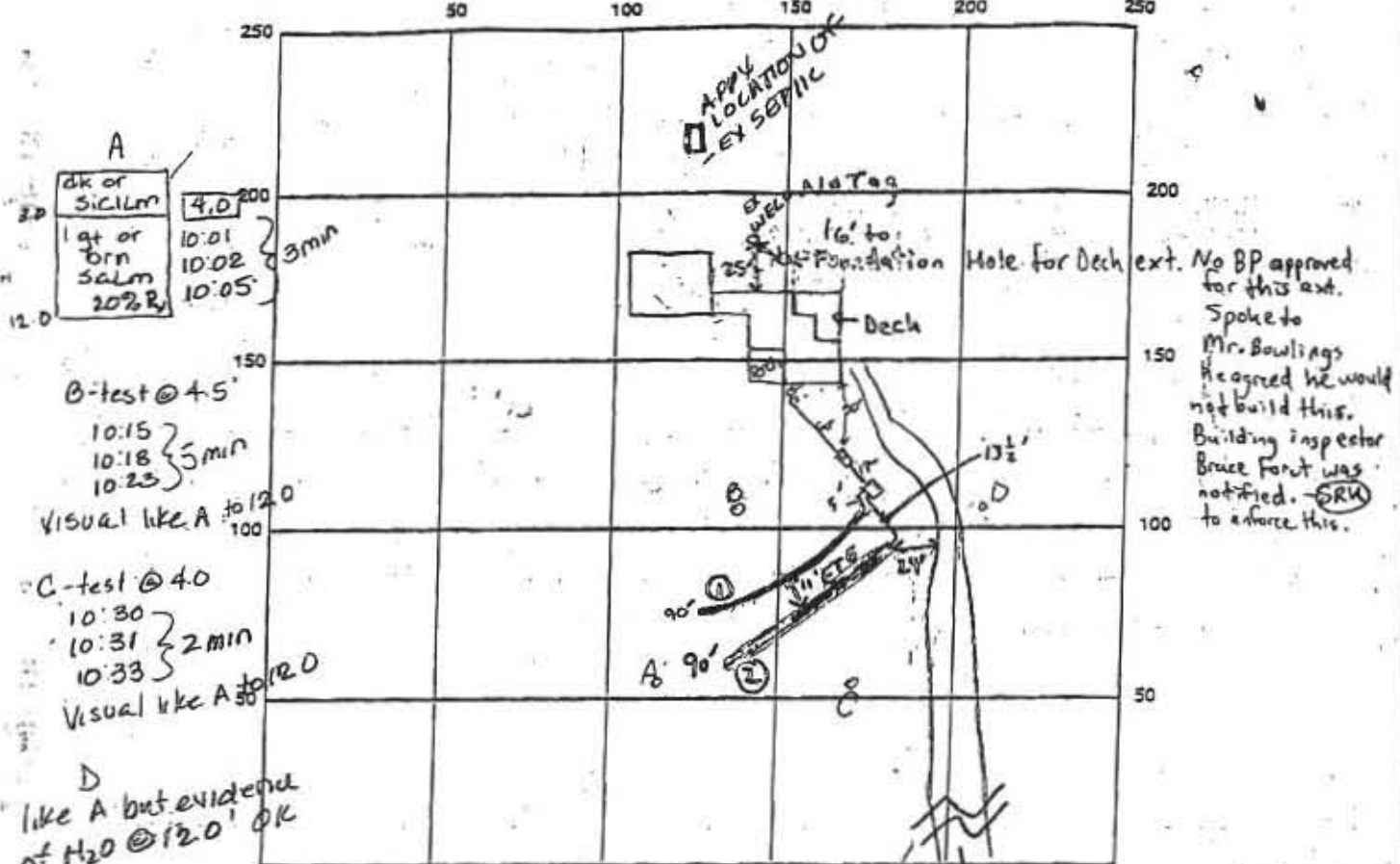
\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

\*CALL 481-9933 FOR INSPECTION OF SEPTIC SYSTEM.

HO-260(6-90)

512699

NOT TO SCALE



A  
OK or SICILM 4.0  
1 qt or 10:01  
orn 10:02  
SALM 10:05  
20% R

B-test @ 4.5  
10:15 }  
10:18 } 5 min  
10:23 }  
Visual like A to 12.0

C-test @ 4.0  
10:30 }  
10:31 } 2 min  
10:33 }  
Visual like A to 12.0

D  
like A but evidence  
of H<sub>2</sub>O @ 12.0 OK

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE  
BYRNWOODS ROAD 44 ft house

SEPTIC TANK LEVEL OK - 1250 gal CLEANOUTS 6" ip. on Septic Tank

DISTRIBUTION BOX LEVEL OK Baffle is in

DRAIN FIELD/TRENCH TILE DEPTH 7 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3 FT.

EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH 180' FT. (1) 90 (2) 90

NUMBER OF TRENCHES 2 ONE SIDEWALL BOTTOM AREA 720 SQ. FT.

DRYWELL DRYWALL INSIDE DIAMETER - FT. EFFECTIVE DEPTH BELOW INLET - FT.

ABSORBENT AREA - SQ. FT.

REMARKS: 9/13/99 A.M. OK to cover from house to dist. box.

OK to stone 1st trench and continue work. DCS

9/13/99 P.M. OK to cover 1st trench and continue.

(owner may choose to maintain ex. system to serve

ex. structure due to difficulty w/ plumbing issues) DCS

9/14/99-OK TO COVER ALL WORK-SRK

DATE SYSTEM APPROVED 9/14/99

INSPECTOR Steven R. Krieg



# HATFIELD'S EQUIPMENT AND DEDICATION SVCS., INC.

13785 BURNT WOODS ROAD  
GLENELG, Md. 21737

OFFICE  
301 854 6172

FAX  
410 489 4905

*9/8/98  
Well 24' from walkway  
on slab OK - Need repair  
to septic to accomodate  
addition - left message  
w/ Hatfields  
AK*

DATE: 9/8

RE: Sept. Alter. Any

COMPANY: \_\_\_\_\_

PHONE # 410 313 2640

FAX 410 313 2648

FROM: Ken Hatfield

TOTAL NUMBER OF PAGES INCLUDING THIS PAGE: 3

COMMENTS: Septic Proposal

\_\_\_\_\_

\_\_\_\_\_

William D. Bowling III  
14821 Burntwoods Road  
Glenwood, MD. 21738  
(410) 442-8040

21 4 187 31  
36 20 280 15

Warfield Estates-Lot 31, Block C

August 27, 1998

Howard County Health Dept.  
Bureau of Environmental Health  
3525-H Ellicott Mills Drive  
Ellicott City, MD. 21043-4544

Water & Sewage Program,

I am writing to apply for a building permit to construct an addition to the house located at 14821 Burntwoods Rd. in Glenwood. After reviewing the permit checklist, I am furnishing the following information to assist you in the building permit review process:

**LOCATIONS**

Attached you will find a scaled drawing of the proposed locations for the:

- o Addition- working drawings to be submitted with permit application. Upon completion the house will have (5) five bedrooms.
- o New septic field- pending successful perk test. New location is a minimum of 20' from addition.
- o Existing well- a verbal approval for the 24' setback was given in 3/98 when I visited your office.

The (3) three neighboring properties wells are all in excess of 100'+ from our proposed new septic field.

The new septic system currently being proposed includes a 10,000 sq. ft. drain field. If you require additional information, please don't hesitate to contact me.

Sincerely,

William D. Bowling III



14821 BURNTWOODS RD

14821 Burntwoods Rd,  
Glenwood, MD

Building permit numbers:  
B15005037

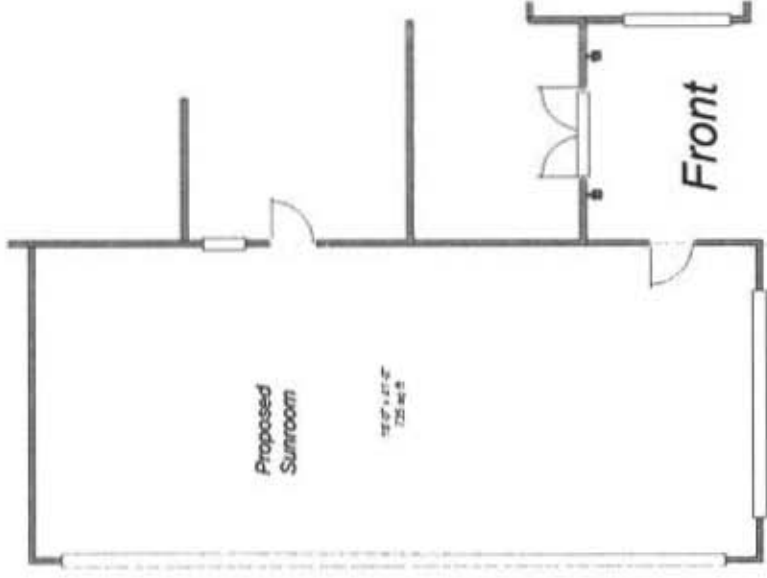
Home owner: Christopher Choi  
Email: [chrismd@outlook.com](mailto:chrismd@outlook.com)  
Phone: 410-465-6977  
Date: December 4, 2015

## Address county Health dept.

1. Floor plan for proposed sunroom
2. Floor plan for existing house
3. Site plan showing well and all septic components (septic tank, drywell, and trench) to ensure all well and septic setbacks are met.
4. Waiver letter to deputy director, Mike Davis. In the letter specify the reasons for the request (ie current # of bedrooms doesn't exceed capacity of the existing septic system, all well and septic setbacks are being met etc.)

# 1. Floor plan of sunroom

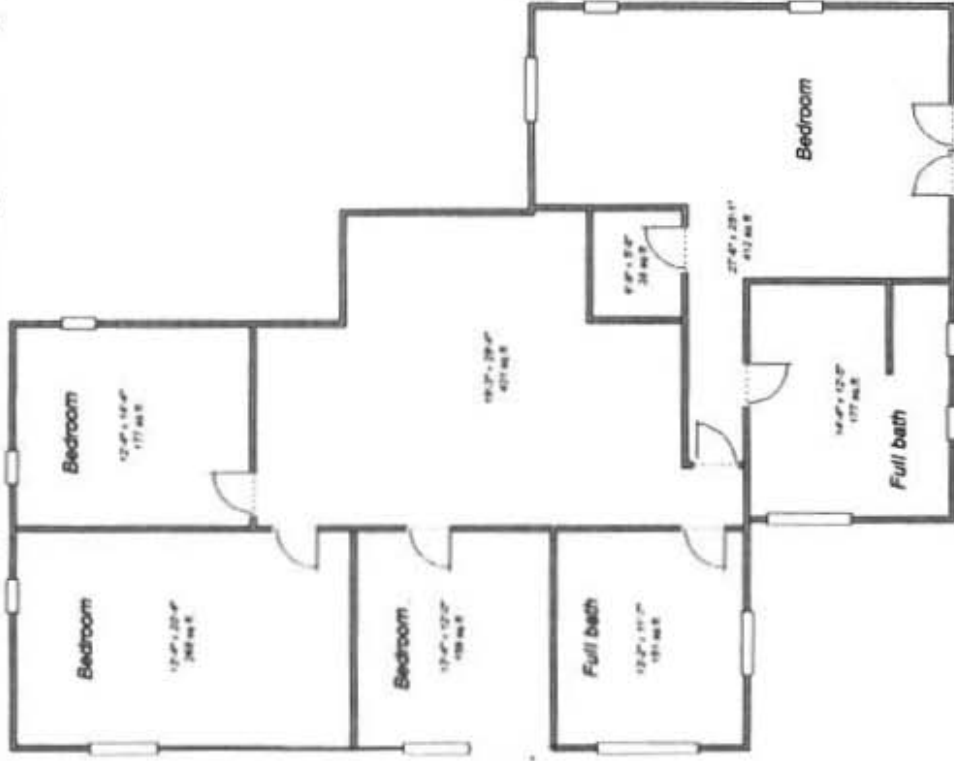
- 18'x41' sunroom equivalent to 735 sq-ft area.



2a. Floor plan for existing house(main level)



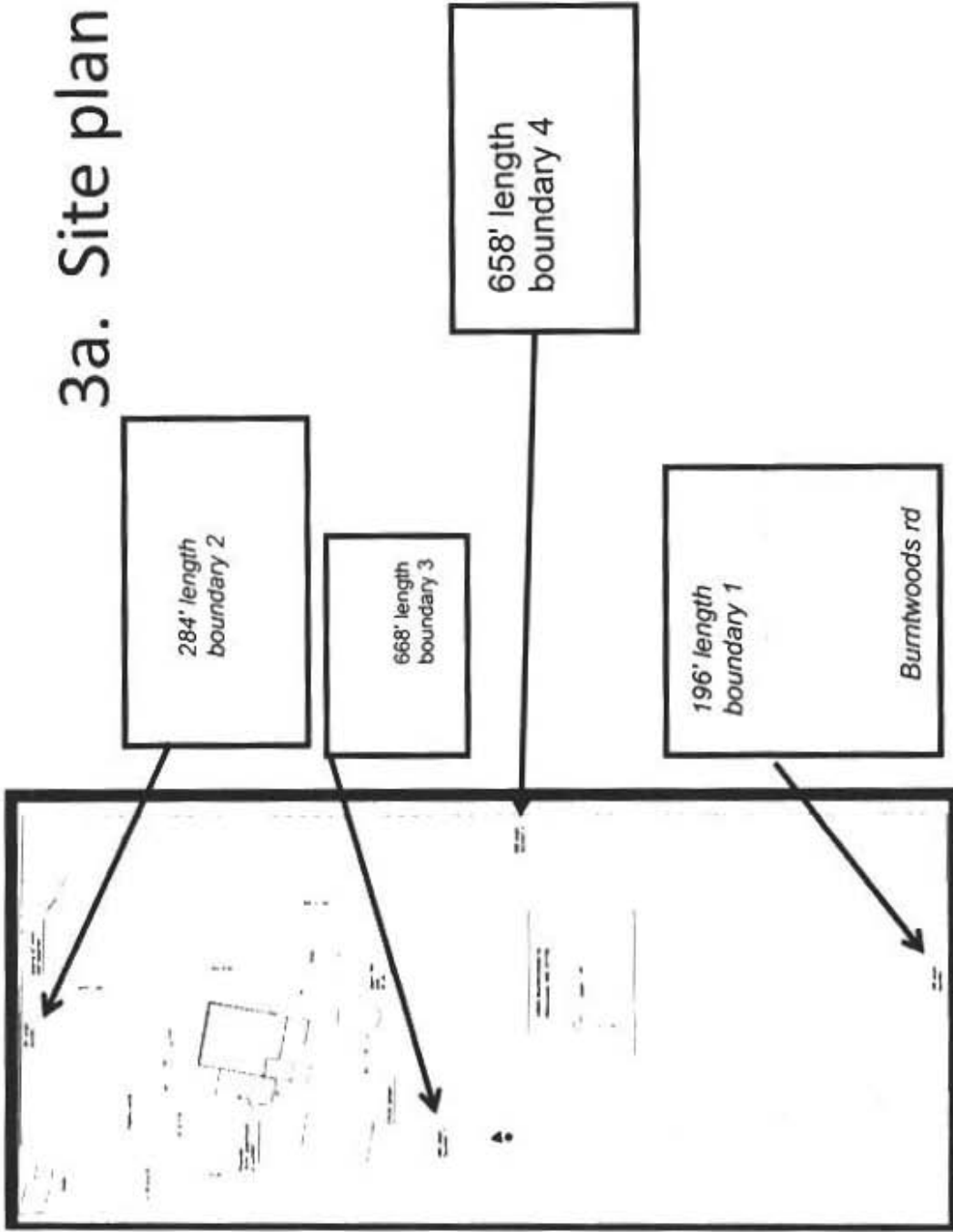
2b. Floor plan for existing house(upper)



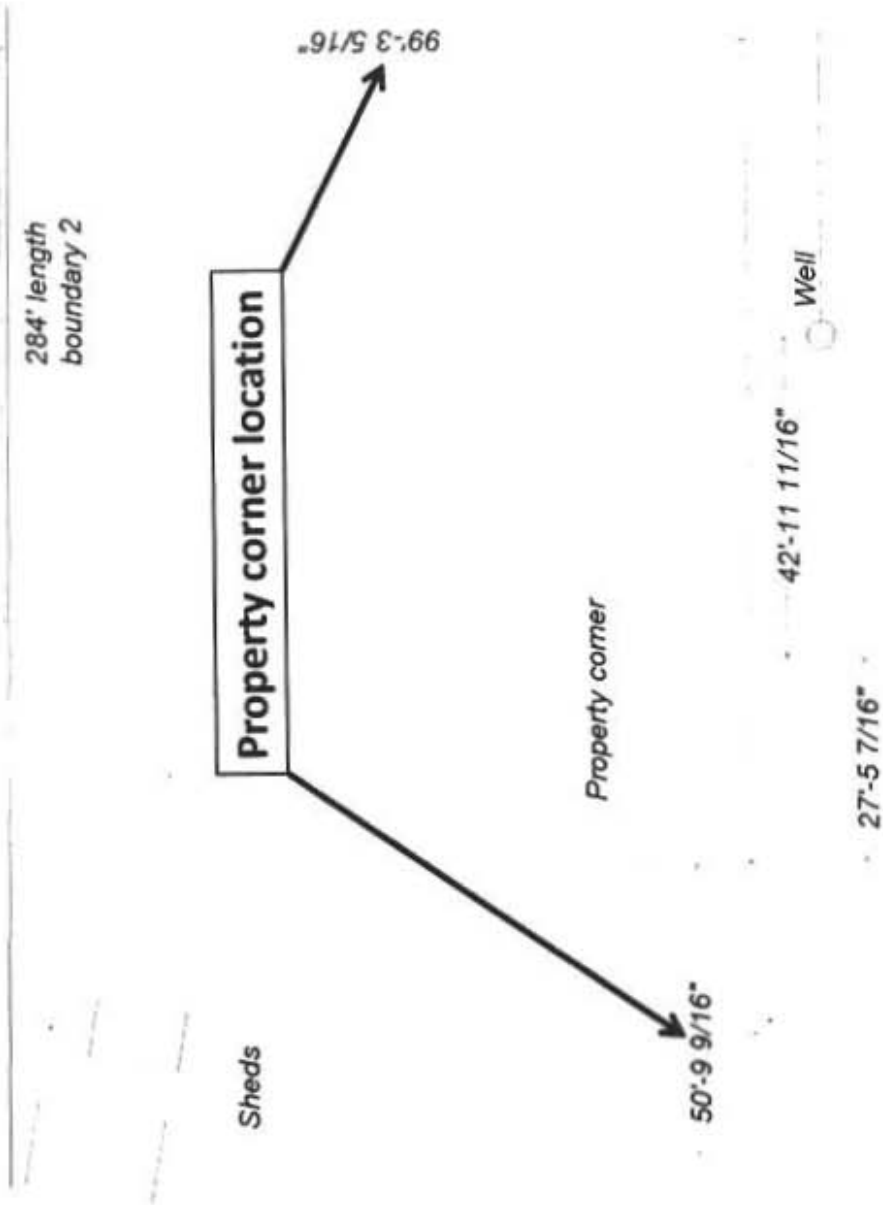
2c. Floor plan for existing house(attic)



# 3a. Site plan



# 3b. Site plan



Property corner

### 3c. Site plan

50'-9 9/16"

42'-11 11/16"



Well

27'-5 7/16"

79'-11"

Sunroom location w/ respect to Property Corner

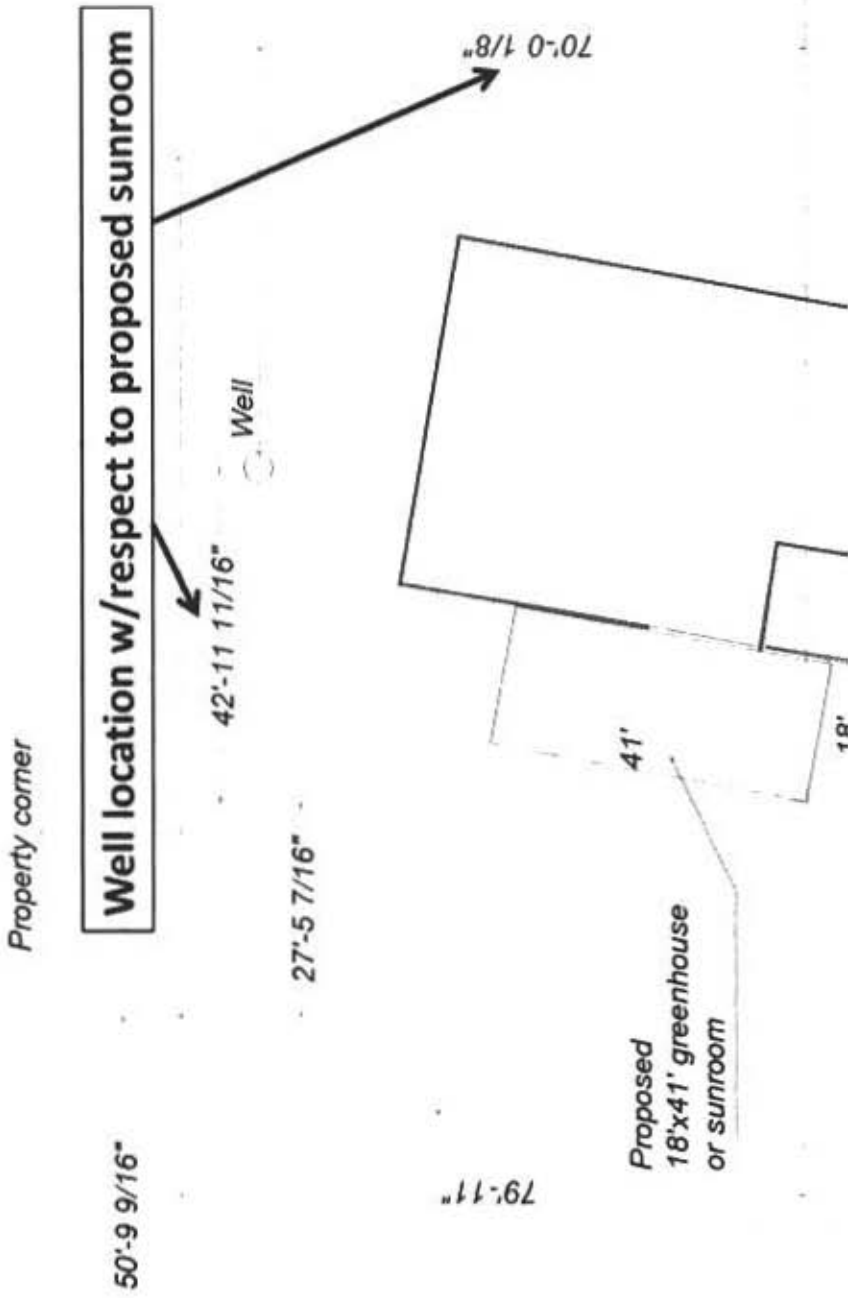
Proposed  
18'x41' greenhouse  
or sunroom

41'

18'

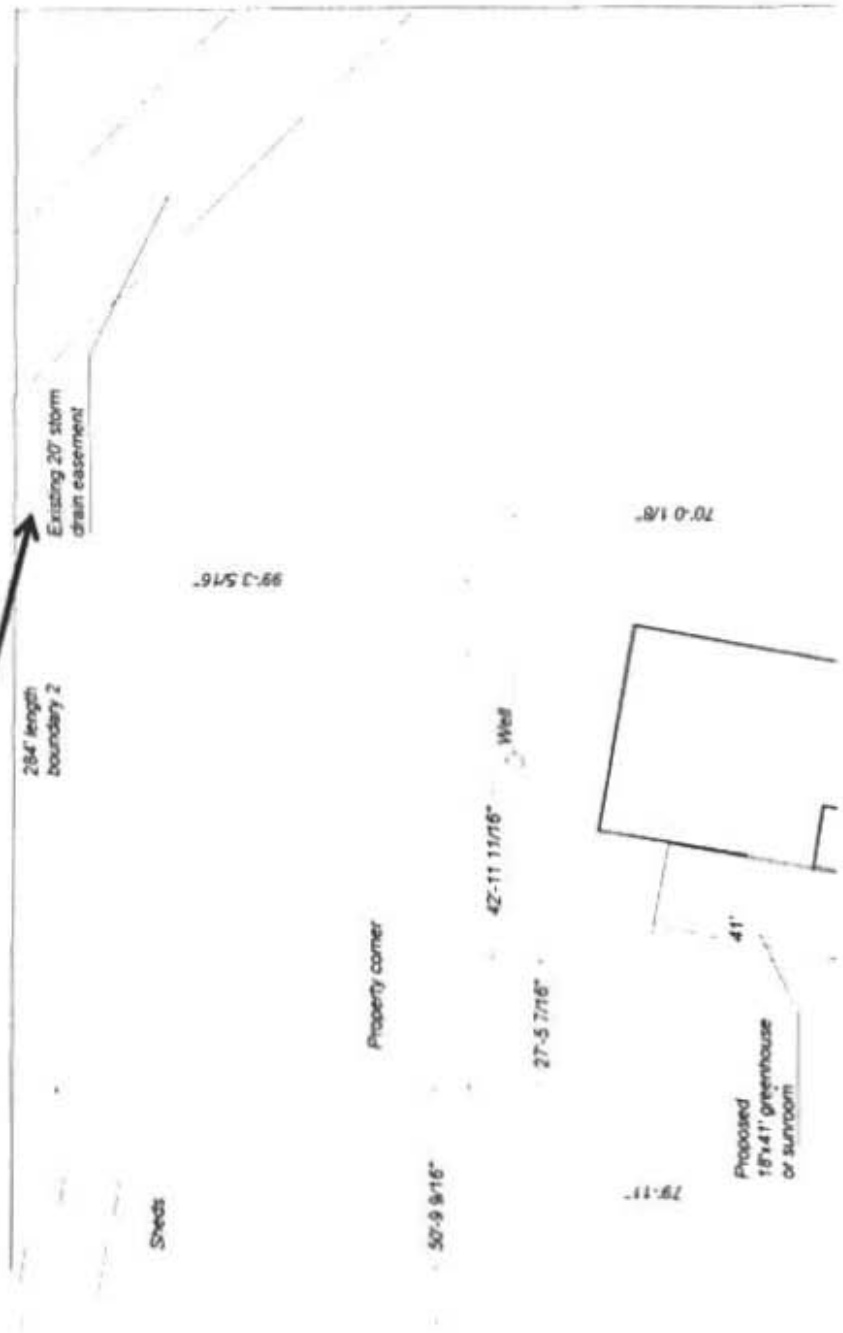


# 3d. Site plan

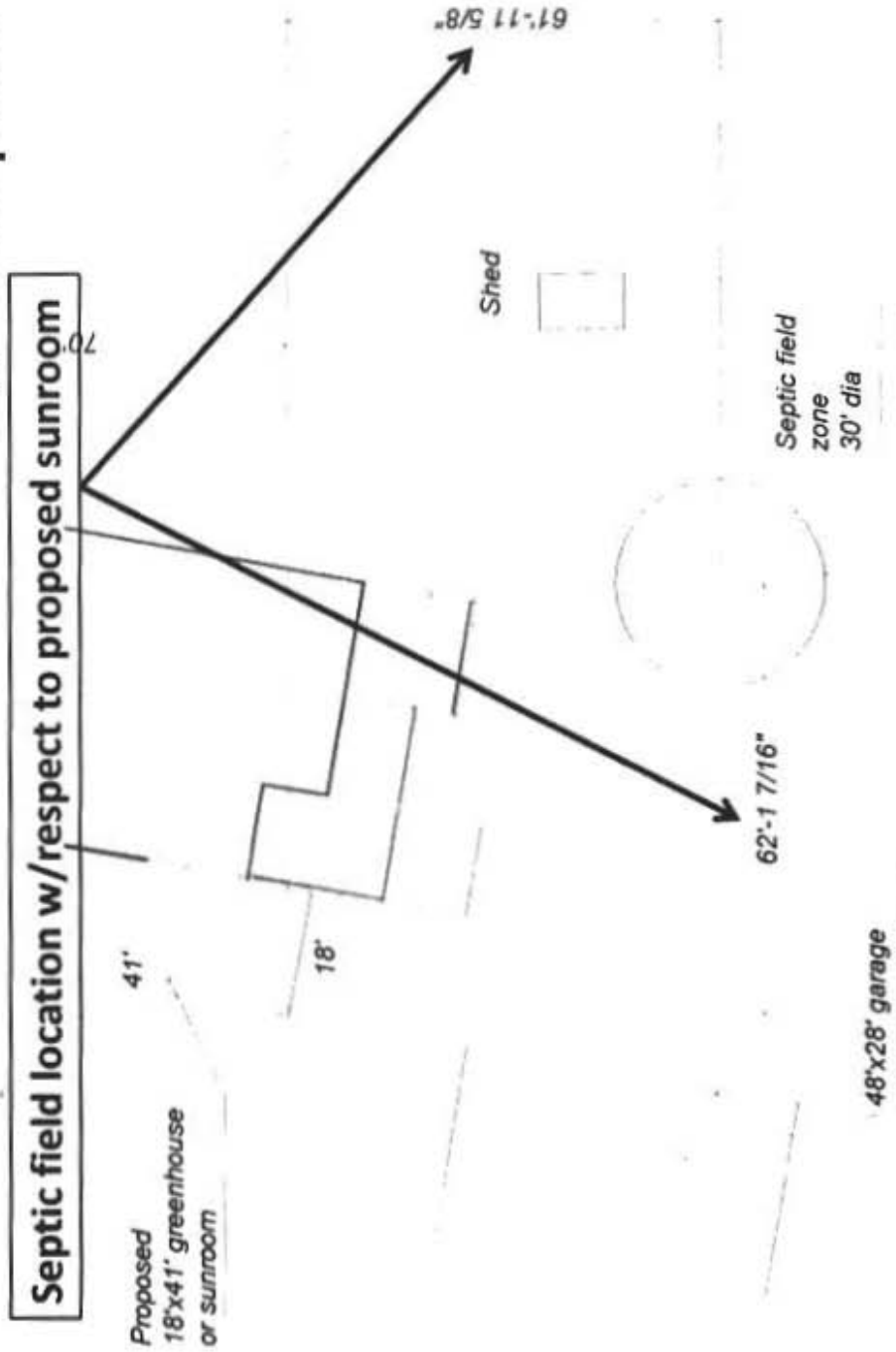


# 3e. Site plan

**Storm drain easement**



# 3f. Site plan



## 4. Waiver letter

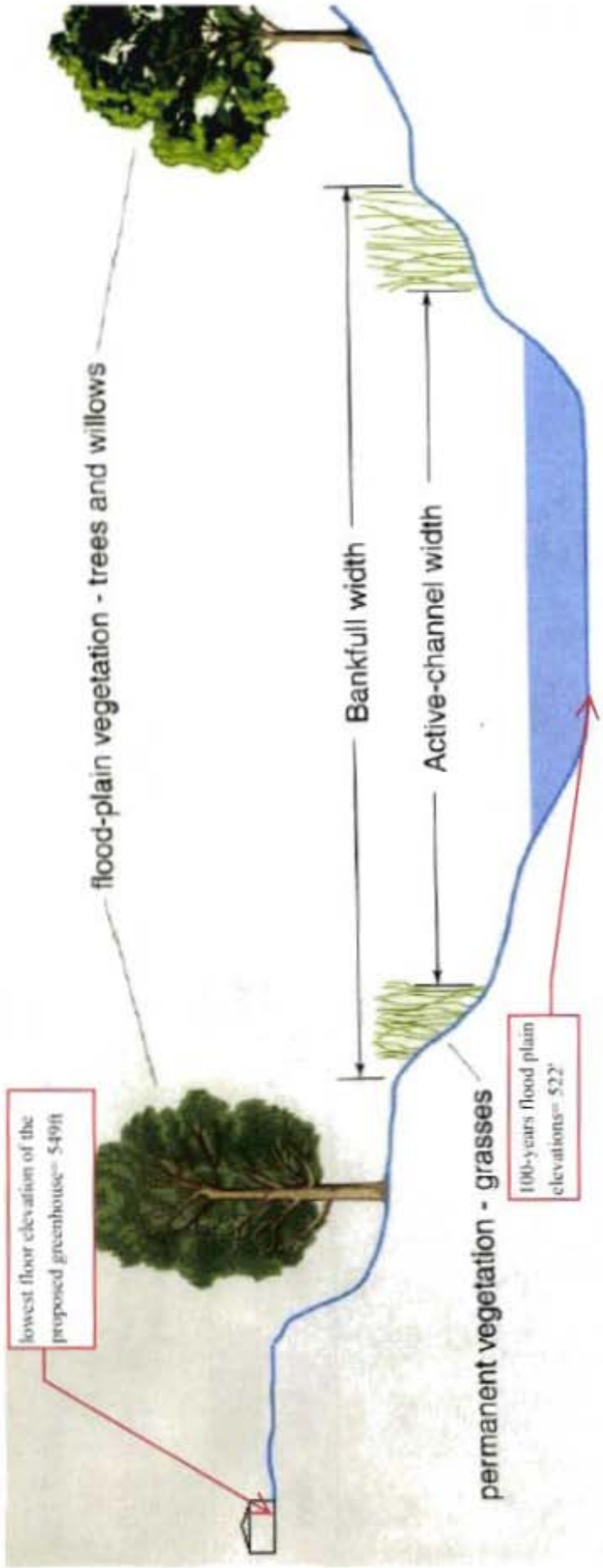
To Deputy Director Mike Davis,

I am the homeowner of 14821 Burntwoods rd, Glenwood, MD, 21738 and I would like to request a Percolation waiver on the sunroom addition to our property per permit#B15005037. Current number of bedrooms does not exceed the capacity of the existing septic system, and all the setback requirements, such as well, septic, and trench, are met. Thank you very much for your consideration.

Sincerely,

Christopher Choi

(Property owner of 14821 Burntwoods rd, Glenwood, MD, 21738)



lowest floor elevation of the proposed greenhouse= 549ft

100-years flood plain elevations= 522'

flood-plain vegetation - trees and willows

Bankfull width

Active-channel width

permanent vegetation - grasses

PROPOSED NEW CONSTRUCTION FOR:

CHOI RESIDENCE SUNROOM ADDITION

- ELEVATION SYMBOL
SECTION SYMBOL
DETAIL SYMBOL
QUANTITY TAG
SHEAR WALL TAG
FRAMING MEMBER DIRECTION
EXTENT OF FRAMING MEMBERS

NOTE:

FOR ELEVATION, SECTION AND DETAIL SYMBOLS; THE TOP NUMBER DESIGNATES, THE DETAIL NUMBER ON THE DRAWING SHEET; THE BOTTOM LETTER/NUMBER DESIGNATES DRAWING SHEET ON WHICH DETAIL IS LOCATED.

IF ONLY ONE NUMBER IS LISTED; THE NUMBER DESIGNATES, THE DETAIL NUMBER LOCATED ON THE SAME SHEET.

- ST1.0 - COVER PAGE, SYMBOL LEGEND
GENERAL NOTES AND SPECS
51.0 - FOUNDATION
51.4 - LEVEL 1 FLOOR PLAN
52.0 - LEVEL 2 FLOOR FRAMING
52.1 - LEVEL 2 FLOOR PLAN
52.2 - LEVEL 3 FLOOR FRAMING
52.3 - LEVEL 3 FLOOR PLAN
53.0 - ROOF FRAMING
53.4 - ROOF BRACING
54.0 - SECTION
55.0 - ELEVATIONS
SD1.0 - FOUNDATION DETAILS
SD2.0 - WALL DETAILS
SD3.0 - ROOF DETAILS
SD4.0 - FLOOR DETAILS

ENGINEERING logo and contact information for KW Engineering, including address and phone number.

STRUCTURAL NOTES AND GENERAL CONDITIONS

NOTES AND GENERAL CONDITIONS

1. ALL WORK ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE 2015 IRC AS ADOPTED AND AMENDED BY THE LOCAL COUNTY; AND ALL OTHER APPLICABLE CODES, ORDINANCES AND LAWS.

2. DIMENSIONS INDICATED ON THE FLOOR PLAN ARE TYPICALLY TAKEN TO THE OUTSIDE FACE OF SHEATHED WALL OR STUD FACE. PRIOR TO CONSTRUCTION CONTRACTOR SHALL VERIFY AND CONFIRM DIMENSIONS SHOWN.

3. THE MECHANICAL, ELECTRICAL AND PLUMBING PORTIONS OF WORK FOR THIS PROJECT ARE BEING DONE IN A DESIGN/BUILD FORMAT. CONTRACTORS SHALL PROVIDE DOCUMENTATION AS REQUIRED.

4. COORDINATION OF ALL WORK BETWEEN THE DIFFERENT TRADES TO BE DONE BY THE CONTRACTOR INCLUDING BUT NOT LIMITED TO ALL OPENINGS, SLEEVES, AND BOX OUTS. THESE ITEMS SHALL BE SUBMITTED TO THE ENGINEER IN WRITING FOR APPROVAL.

5. THE CONTRACTOR SHALL VERIFY THE ASSUMED CONDITIONS AS DESCRIBED HEREIN BY ACTUAL FIELD MEASUREMENTS AND INSPECTIONS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF CONSTRUCTION WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR CORRECTIVE MEASURES.

6. SECTIONS AND DETAILS SHOWN, WHILE DRAWN FOR SPECIFIC LOCATIONS, ARE INTENDED TO ESTABLISH THE GENERAL TYPES OF DETAILS TO BE USED THROUGHOUT. IF THE CONTRACTOR WISHES TO USE DETAILS OTHER THAN THOSE SHOWN ON THE DRAWINGS, SUCH DETAILS SHALL BE SUBMITTED FOR APPROVAL, AND APPROVAL CONFIRMED, BEFORE SHOP DRAWINGS ARE COMMENCED.

7. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ESTABLISH THE METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION, SUBJECT TO COMPLIANCE WITH ALL PROJECT REQUIREMENTS, INCLUDING BUT NOT LIMITED TO BRACING, SHORING, AND THE DOWNS OF ALL CONSTRUCTION WORK IN PROGRESS. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. PROVIDE ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL REQUIRED REVISIONS TO THE STRUCTURAL SYSTEM WHICH MAY RESULT FROM ACCEPTANCE OF CONTRACTOR PROPOSED ALTERNATIVES. APPROPRIATE SAFETY MEASURES SATISFYING LOCAL AND OSHA REQUIREMENTS SHALL BE TAKEN AT ALL TIMES.

8. ENGINEER IS NOT RESPONSIBLE FOR WORK THAT ENGINEER DOES NOT REVIEW AND/OR WORK NOT COMPLETED IN ACCORDANCE WITH ENGINEER'S PLANS AND/OR INSTRUCTIONS.

9. THE ENGINEER'S REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO FOLLOW THE INTENT OF THE CONTRACT DRAWINGS, UNLESS A WRITTEN REQUEST FOR A CHANGE HAS BEEN PREVIOUSLY SUBMITTED AND APPROVED BY THE ENGINEER IN WRITING.

FOUNDATIONS & EARTHWORK
1. FOUNDATIONS SHALL BEAR ON UNDISTURBED VIRGIN SOIL OR 95% COMPACTED ENGINEERED FILL PROVIDING A BEARING PRESSURE OF 2000 PSF MIN. IN ADDITION, ALL RESTRAINED FOUNDATION WALLS BELOW GRADE WERE DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 45 PCF AND CANTILEVERED RETAINING WALLS WERE DESIGNED FOR 40 PCF. THERE MAY BE A NEED TO MODIFY THE DESIGN OF THE FOUNDATION DEPENDING UPON THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED. CONDITIONS THAT DO NOT MEET THE MINIMUM STANDARDS CITED ABOVE WILL RENDER THIS FOUNDATION AND SLAB DESIGN VOID. CONTRACTOR SHALL VISIT IN ADVANCE AND EXAMINE WORKSITE AND ALL CONDITIONS AND SHALL TAKE INTO CONSIDERATION ALL CONDITIONS THAT MAY AFFECT HIS WORK.

6. BACK FILL AGAINST BELOW GRADE WALLS SHALL BE PLACED EVENLY ON BOTH SIDES OF THE WALL U.N.O. NO BACKFILL SHALL BE PLACED AGAINST ONE SIDE OF RETAINING OR FOUNDATION WALLS UNTIL GROUT OR CONCRETE HAS ATTAINED DESIGN STRENGTH AND SUPPORTING MEMBERS ARE IN PLACE, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM ENGINEER.

7. ALL EMBEDMENTS, INCLUDING ANCHOR BOLTS, SHALL BE IN PLACE PRIOR TO POURING CONCRETE. ANCHOR BOLTS SHALL BE GALVANIZED 1/2" DIAMETER (MIN) U.N.O. 8" MIN EMBEDDED FOR CONCRETE WALLS. 15" MIN EMBEDDED FOR CMU WALLS. ANCHOR BOLT SPACING TO BE 6" ON CENTER OR LESS FOR WALLS OR SLABS WITH EQUAL BACKFILL, AND 4" ON CENTER OR LESS FOR WALLS WITH UNEQUAL BACKFILL, OR AS REQUIRED ON THE SHEAR WALL SCH. IN ADDITION (1) BOLT TO BE LOCATED 3-12" FROM THE END OF EACH BOARD, 2 BOLTS (MIN) PER CONNECTION.

8. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE LOCATION OF ANY UTILITIES IN THE IMMEDIATE VICINITY OF CONSTRUCTION SO AS TO PREVENT DAMAGE TO THEM. SHOULD ANY DAMAGE TO SUCH UTILITIES OCCUR, THE CONTRACTOR SHALL REPAIR DAMAGE AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER.

CONCRETE
1. ALL CONCRETE WORK SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS.
a. ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
b. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
c. ACI 302.1R "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
d. ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
e. ACI 305R "HOT WEATHER CONCRETING"
f. ACI 306R "COLD WEATHER CONCRETING"
g. ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
h. ACI 347 "GUIDE TO FORM WORK FOR CONCRETE"

2. ALL CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS IN 28 DAYS:
a. FOOTINGS 3000 PSI
b. INT. SLABS ON GRADE 3000 PSI
c. FOUNDATION WALLS 3000 PSI
d. EXTERIOR & GARAGE SLABS 3500 PSI
e. ALL EXPOSED CONCRETE 3500 PSI
f. ELEVATED SLABS 4000 PSI

3. PROVIDE 4-4 PERCENT AIR ENTRAINMENT FOR ALL EXPOSED CONCRETE AND SLABS ON-GROUND.

4. ALL CONCRETE REINFORCING BARS SHALL BE ASTM A615 GRADE 60 AND ALL WELDED WIRE FABRIC (W.W.F.) SHALL BE ASTM A185. W.W.F. TO BE LOCATED IN THE CENTER 1/3 OF THE SLAB AND BE LAPPED 6" MIN ON ALL EDGES.

5. ALL CONCRETE ADMIXTURES ARE TO BE APPROVED BY ENGINEER.

6. PROVIDE CHAIRS AS REQ'D TO SECURELY HOLD REINFORCING BARS AND W.W.F. IN PLACE UNTIL CONCRETE CURES. MINIMUM CONCRETE COVER FOR REINFORCING:
a. FOOTINGS: 3 INCHES CAST AGAINST EARTH, 2 INCHES ALL OTHERS
b. CONCRETE WALLS: 1-1/2 INCHES EARTH FACE, 1 INCH ALL OTHERS
c. CAST IN PLACE BEAMS: 1" CLEAR
d. SLABS ON-GRADE: PLACE WELDED WIRE FABRIC IN CENTER 1/3 OF SLAB.

FOLLOWING VALUES.
a. SPECIFIED OVERALL VALUE (SOV) Ff=38 / Ff=25
b. MINIMUM LOCAL VALUE (SLV) Ff=19 / Ff=13

3. POROUS FILL FOR SLABS SHALL BE A UNIFORMLY GRADED MEDIUM COURSE STONE AGGREGATE TO PROVIDE, WHEN COMPACTED, A LEVEL, STABLE AND WELL DRAINING SUBBASE FOR THE SLAB. USE #57 CRUSHED NATURAL STONE OR EQUAL.

4. AFTER ALL UNDER-SLAB WORK HAS BEEN INSTALLED CONTRACTOR SHALL FIELD CONFIRM THE DENSITY OF THE SOIL. ANY SOFT, PUMPING OR OTHERWISE UNSTABLE OR UNSUITABLE SUB-GRADE SOIL, THIS DETECTED SHALL BE UNDERCUT AND REPLACED WITH SUITABLE FILL PLACED AND COMPACTED AS SPECIFIED FOR STRUCTURAL FILL. ANY AREAS WHERE THE COMPACTED SUB-GRADE IS DEPRESSED BY MORE THAN 2" SHALL BE FILLED WITH SUITABLE MATERIAL AND RE-COMPACTED.

5. PROVIDE SAW-CUT OR DOWELED CRACK CONTROL JOINTS IN SLABS AT A MAX SPACING OF 20', AT ALL COLUMN LINES, AND WHERE INDICATED "C.J.". PROVIDE 1/2" PREFORMED EXPANSION JOINTS IN SLABS WHERE INDICATED "E.J.". REFER TO TYPICAL SLAB JOINT DETAILS.

6. PROVIDE (2) #4 DIAGONAL BARS 4' LONG CENTERED AT ALL INSIDE OR REENTRANT CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.

7. PRIOR TO POURING FLOOR SLABS, REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL WORK TO BE COMPLETED IN OR BELOW THE FLOOR, AND OTHER PROJECT REQUIREMENTS.

8. WHERE INTERIOR SLABS ABUT MASONRY OR CONCRETE WALLS, THE SLAB SHALL BE THICKENED TO 8" MINIMUM ADJACENT TO WALL, AND SHALL BE ISOLATED FROM THE WALL AS INDICATED. REFER TO TYPICAL DETAILS.

9. REFER TO CONCRETE NOTES FOR ADDITIONAL SLAB REQUIREMENTS.

WOOD FRAMING
1. ALL WOOD AND WOOD CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND CODES, MODIFICATIONS AS SPECIFIED HEREIN:
a. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION: STANDARDS MANUAL
b. NATIONAL FOREST PRODUCTS ASSOCIATION: NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION
c. SOUTHERN PINE INSPECTION BUREAU: STANDARD GRADING RULES FOR SOUTHERN PINE LUMBER
d. TRUSS PLATE INSTITUTE: DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES (ANSI/TP1-2002)
e. AMERICAN PLYWOOD ASSOCIATION: GUIDE TO PLYWOOD FOR FLOORS, PLYWOOD SHEATHING FOR WALLS AND ROOFS
f. AMERICAN WOOD PRESERVERS ASSOCIATION STANDARDS.

2. ALL STRUCTURAL LUMBER SHALL BE STAMPED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION'S "CONSTRUCTION MANUAL".

3. NOT APPLICABLE

4. PREFABRICATED METAL HANGERS, FRAMING ANCHORS AND FASTENERS: PROVIDE AND INSTALL STAMPED AND FABRICATED STEEL HARDWARE OF THE TYPE INDICATED AND AS REQUIRED BY CODE. ATTACHMENT TO BE AS NOTED BY MANUFACTURER'S PUBLISHED TABLES TO PROVIDE MAXIMUM HANGER CAPACITY, UNLESS NOTED OTHERWISE ON FRAMING PLANS. NAILS SHALL BE FULLY DRIVEN IN ALL HOLES IN THE ANCHOR UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE OR APPROVED EQUAL. ALL HANGERS AND ANCHORS SHALL BE APPROPRIATELY COATED FOR THEIR IN USE EXPOSURE.

5. PRESSURE TREATED LUMBER SHALL BE PRESSURE TREATED WITH A CODE APPROVED TREATMENT RETENTION LEVELS ARE TO BE AS RECOMMENDED BY THE MANUFACTURER FOR THE SPECIFIC APPLICATION. INSTALL PRESSURE TREATED MATERIAL WHERE LUMBER IS IN CONTACT WITH CONCRETE OR IS EXPOSED TO THE WEATHER. ALL HARDWARE IN CONTACT WITH PRESSURE TREATED LUMBER MUST BE HOT DIPPED GALVANIZED OR BE APPROVED FOR USE BY THE MANUFACTURER FOR THE SPECIFIC CHEMICAL TREATMENT. DO NOT USE ALUMINUM PRODUCTS IN CONJUNCTION WITH TREATED LUMBER.

6. ROOF SHEATHING SHALL BE 1932" (5/8" NOMINAL) A.P.A. RATED SHEATHING EXPOSURE 1. FASTEN SHEATHING TO FRAMING MEMBERS W/ 8d NAILS @ 6" O.C. @ PANEL EDGES AND @ 12" O.C. @ INTERMEDIATE SUPPORTS. (1) "H" CLIP REQUIRED IN EACH BAY.

11. ALL HEADERS AT NON-BEARING CONDITIONS SHALL BE SIZED AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE NOTED.

12. PROVIDE SOLID BLOCKING UNDER ALL POINT LOADS, POSTS, AND COLUMNS. CARRY ALL POSTS AND COLUMNS DOWN TO FOUNDATION OR BEAM. BLOCKING TO BE THE SAME SIZE AS THE POST ABOVE.

13. THE FOLLOWING MIN NAIL DIMENSIONS ARE REQUIRED FOR FRAMING, UNLESS SPECIFICALLY NOTED TO USE COMMON NAILS, SINKER AND GUN NAILS MEETING THE MIN SIZES BELOW ARE ACCEPTABLE.

14. SCREWS ALL STRUCTURAL SCREWS SPECIFIED AS THE FOLLOWING "Truss Lok", "TrussLok-2", "LodgerLok", "TimberLok", "HeadLok" TO BE MANUFACTURED BY FASTEN MASTER. FASTEN MASTER SCREWS OF EQUAL OR GREATER CAPACITY MAY REPLACE SIMPSON SDS SCREWS OR USP W/S SCREWS. IT IS THE BUILDERS RESPONSIBILITY TO VERIFY CAPACITY OF INSTALLED CONDITION FOR ALL SUBSTITUTIONS.

15. STAPLE ONE LAYER OF 15# FELT PAPER TO BACK SIDE OF ALL UNTREATED LEDGERS AND JOISTS THAT ARE IN DIRECT CONTACT WITH MASONRY WALLS TO ACT AS A MOISTURE BARRIER.

ABBREVIATIONS

Table listing abbreviations for various construction terms such as AT, A.B., A.F.F., ALT., APPROX., ARCH., A.S.P., ASTM, BCSI, B.C., B.L.G., BRG., B.O., CANT., C.L., C.L.G., C.J., C.L.B., C.M.U., COL., CONG., COND., CONN., CONT., DET., DIAG., D.L., DRP., DWG(S), EA., E.J., ELEV., EMBED., E.O.R., EQ., E.W., EX., FTG., F.R.P., FRF., GA., GALV., G.S.F., G.W.B., H.D.G., H.M., HORIZ., HT., I.T., INSUL., INFO., J.S., K.S., LL., L.L.V., LOC., LONG., LVL., MANU., MAT., MAX., M.B.M., MIN., MISC., M.O., N.A., N.S.F., N.T.S., OCC., OCC., O.C., O.D., OSB., P.A.F., PCF., PERP., PSF., PSL., P.T., REG., REIF., REQ'D., R.O., SCH., SCS., SDS, S.D.S.T., SHT., S.M.P., S.S., S.S.M.A., STD., STRUC., T.C., T.4.G., T.E.E., T.N., T.O.F., T.O.F.F., T.O.F.T., T.O.S., T.O.S.F., TRANS., TRP., U.N.O., V.I.F., VOL., W.C., WT., W.W.F., LONG LEG VERTICAL, LOCATION(S), LONGITUDINAL, LAMINATED VENEER LUMBER, MANUFACTURER, MATERIAL, METAL BUILDING MANU., MINIMUM, MISCELLANEOUS, MASONRY OPENING, NOT IN CONTACT, NET SQUARE FEET, NOT TO SCALE, ON CENTER, OCCUPANT, OUTSIDE DIAMETER, ORIENTED STRAND BOARD, POWDER ACTUATED FASTENER, POUNDS PER CUBIC FOOT, PERPENDICULAR, POUNDS PER SQUARE FOOT, PARALLEL STRAND LUMBER, PRESSURE TREATED, REGULAR, REINFORCED, REQUIRED, ROUGH OPENING, SCHEDULE, SIMPSON LAG BOLT, SELF DRILLING SELF TAPPING SHEET, SIMPSON STRONG-TIE, STAINLESS STEEL, STEEL STUD MANU. ASSOCIATION, STANDARD, STRUCTURAL, TOP CHORD, TONGUE AND GROOVED, TYPICAL EACH END, TOE NAIL, TOP OF FOUNDATION, TOP OF FINISHED FLOOR, TOP OF FOOTING, TOP OF SLAB, TOP OF SUB FLOOR, TYPICAL, TRANSVERSE, TYPICAL, UNLESS NOTED OTHERWISE, VERIFY IN FIELD, VOLUME, WATER CLOSET, WEIGHT, WELDED WIRE FABRIC.

OTHER CONTACTS

BUILDER
HERITAGE BUILDERS
TIM HAHN
157 WEST BROOK RD
PEACH BOTTOM, PA 17563
864-430-1608

STRUCTURAL DESIGN CRITERIA

Table with 2 columns: OCCUPANCY CATEGORY (II) and DESIGN LOADS (DECK, FLOOR, ROOF, SLAB ON GRADE, SNOW LOADING, SEISMIC LOADING, etc.) with corresponding values in PSF or other units.

Window Sill Height
Window sill less than 2 1/2 inches to the finished floor.
More than 2 1/2 inches to the finished floor shall have a leading edge to be cut back to the opening to 4 inches in accordance with R613.2 of the IRC 2006

REVIEWED FOR CODE COMPLIANCE stamp from the Department of Inspections, Licenses and Permits, Howard County, dated 12/8/15, signed by WB Engineer.

Table with columns for DATE and INSPECTOR, intended for use by the inspector.

PLAN SHEET
CHOI RESIDENCE
14821 BURNT WOOD ROAD
GLENWOOD, MD 21738

CLIENT: HERITAGE BUILDERS

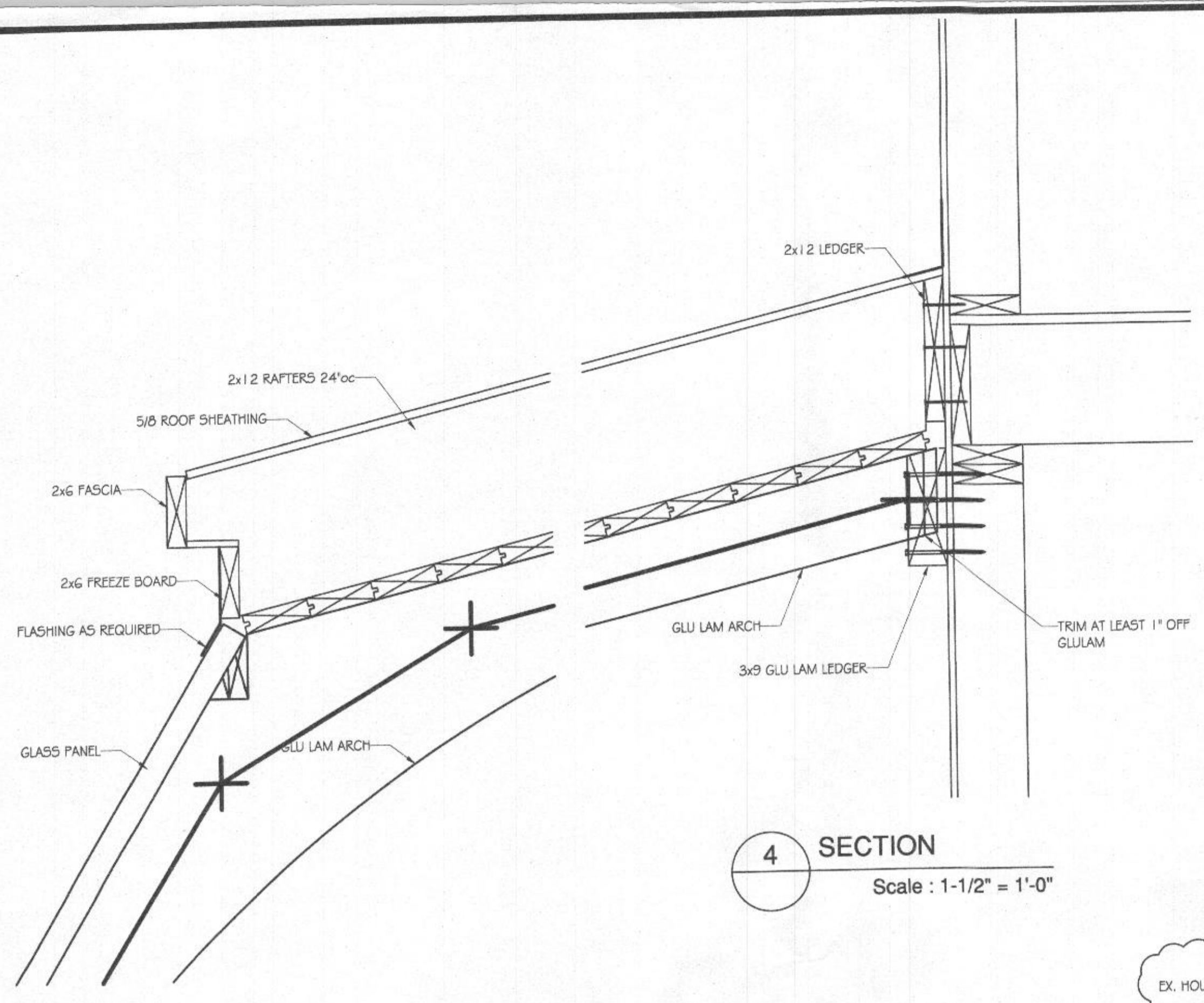
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Professional Engineer Seal for Kenneth A. Watters II, License # 25802, State of Maryland.

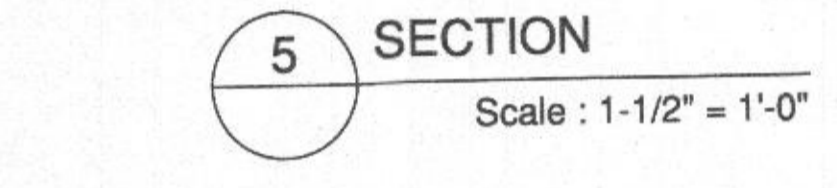
KENNETH A. WATTERS II
Lic# 25802
Exp: 1-31-17
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

KW JOB#: 14-069
DRAWN BY: KW
DATE: 11-4-14

ST1.0



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

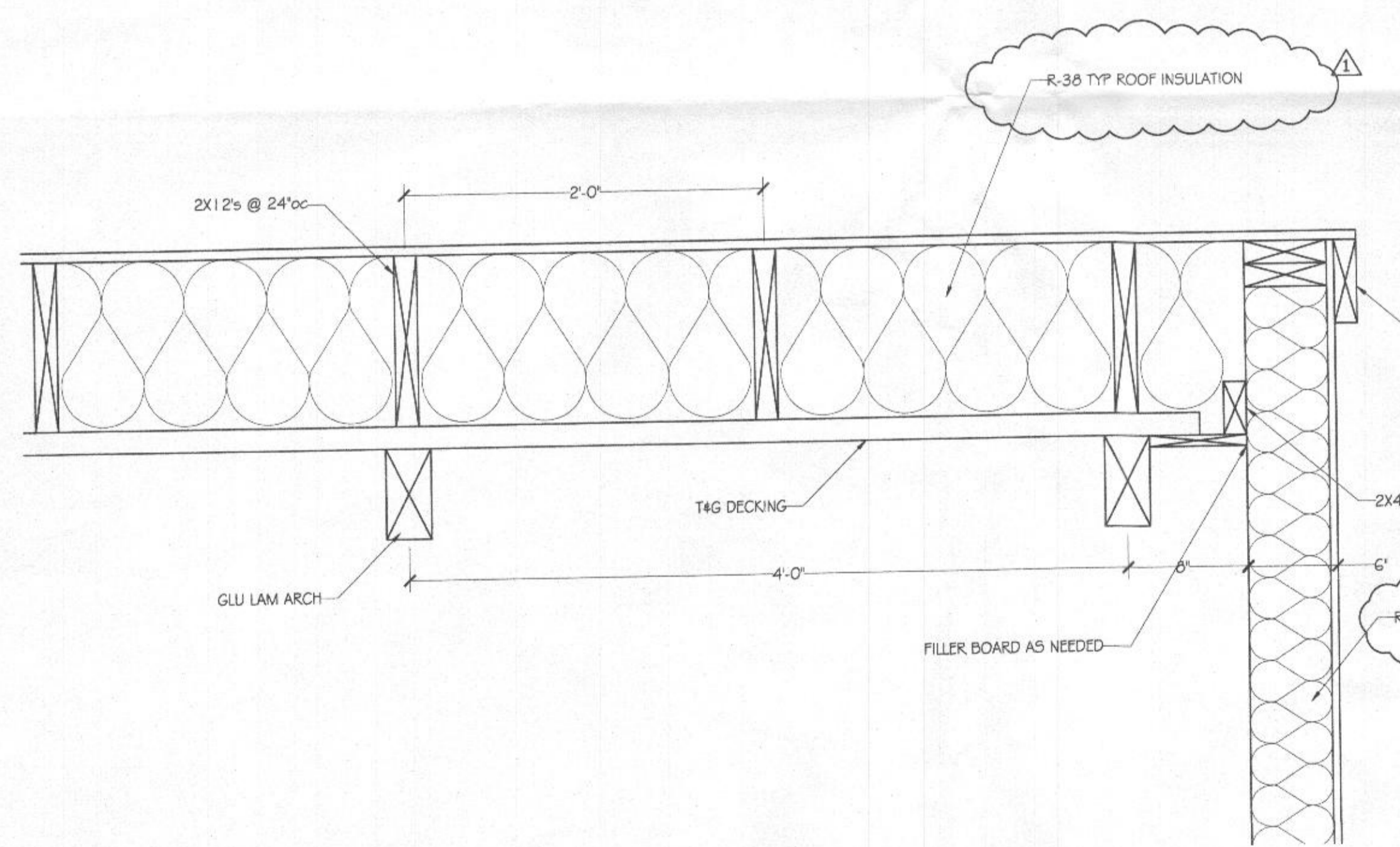


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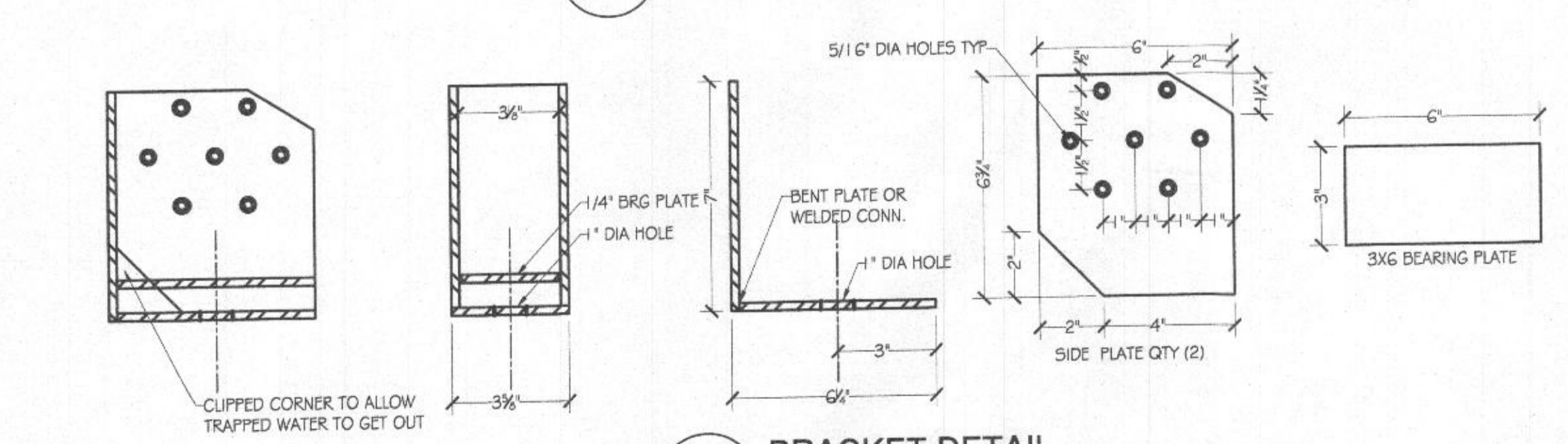
- ROOF FRAMING NOTES:**
- SEE SCHEDULE FOR MEMBER SIZES AND MORE INFORMATION.
  - ROOF DECK IS 5/8" APA RATED SHEATHING WITH "H" CLIPS BETWEEN EACH TRUSS AND RAFTER. ATTACH SHEATHING WITH 8D RING SHANK NAILS 6"OC AT THE EDGES AND 12"OC IN THE FIELD. SEE DETAILS FOR SPECIAL NAILING REQUIREMENTS.
  - PROVIDE PROPER VENTILATION PER CODE INTO THE ATTIC SPACE.
  - ALL WALLS SHOWN CONSIDERED BEARING UNLESS NOTED OTHERWISE.
  - REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
  - ALL TRUSSES AND RAFTERS TO BE ATTACHED TO BEARINGS WITH A MECHANICAL ANCHOR. USE ONE H2 ST CLIP AS A MINIMUM (TWO CLIPS MIN. ON ALL MULTI-PLY GIRDERS TRUSSES OR RAFTERS). INSTALL CLIPS ON SHEATHED SIDE OF WALL. REFERENCE TRUSS ENGINEERED DRAWINGS FOR ACTUAL UPLIFT REQUIREMENTS.
  - TYPICAL HEADER TO BE (2) 2x10s SPF#2 UNLESS NOTED OTHERWISE.
  - TYPICAL WALL FRAMING IS 2x6s @ 16"oc UNLESS NOTED OR DIMENSIONED OTHERWISE.
  - ARROW INDICATES SPAN DIRECTION OF FRAMING MEMBER.

- CAST IN PLACE CONCRETE WALL NOTES:**
- ALL WALL POURS TO BE MONOLITHIC AND POURED AT APPROXIMATELY THE SAME TIME.
  - HORIZONTAL REINFORCEMENT TO BE BENT AROUND ALL CORNERS WITH A MIN OF 18" SPLICE LENGTH.
  - MIN OF (2) VERTICAL BARS ON EACH SIDE OF ALL OPENINGS.
  - VERTICALLY REINFORCE WALL AS STATED IN SCHEDULE FOR CONDITIONS.
  - LOCATE AND INSTALL ALL REQUIRED EMBEDMENTS BEFORE POURING.
  - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - VERTICAL REINFORCEMENT PLACEMENT
    - LATERALLY SUPPORTED FOUNDATION WALLS REINFORCEMENT IS TO BE PLACED ON THE TENSION SIDE OF THE WALL OPPOSITE THE RETAINED EARTH OR BACK-FILLED MATERIAL.
    - LATERALLY UNSUPPORTED WALLS REINFORCEMENT IS TO BE PLACED IN THE CENTER OF THE WALL. MAX TYPICAL UNBALANCED BACKFILL HEIGHT IS 4' UNO.

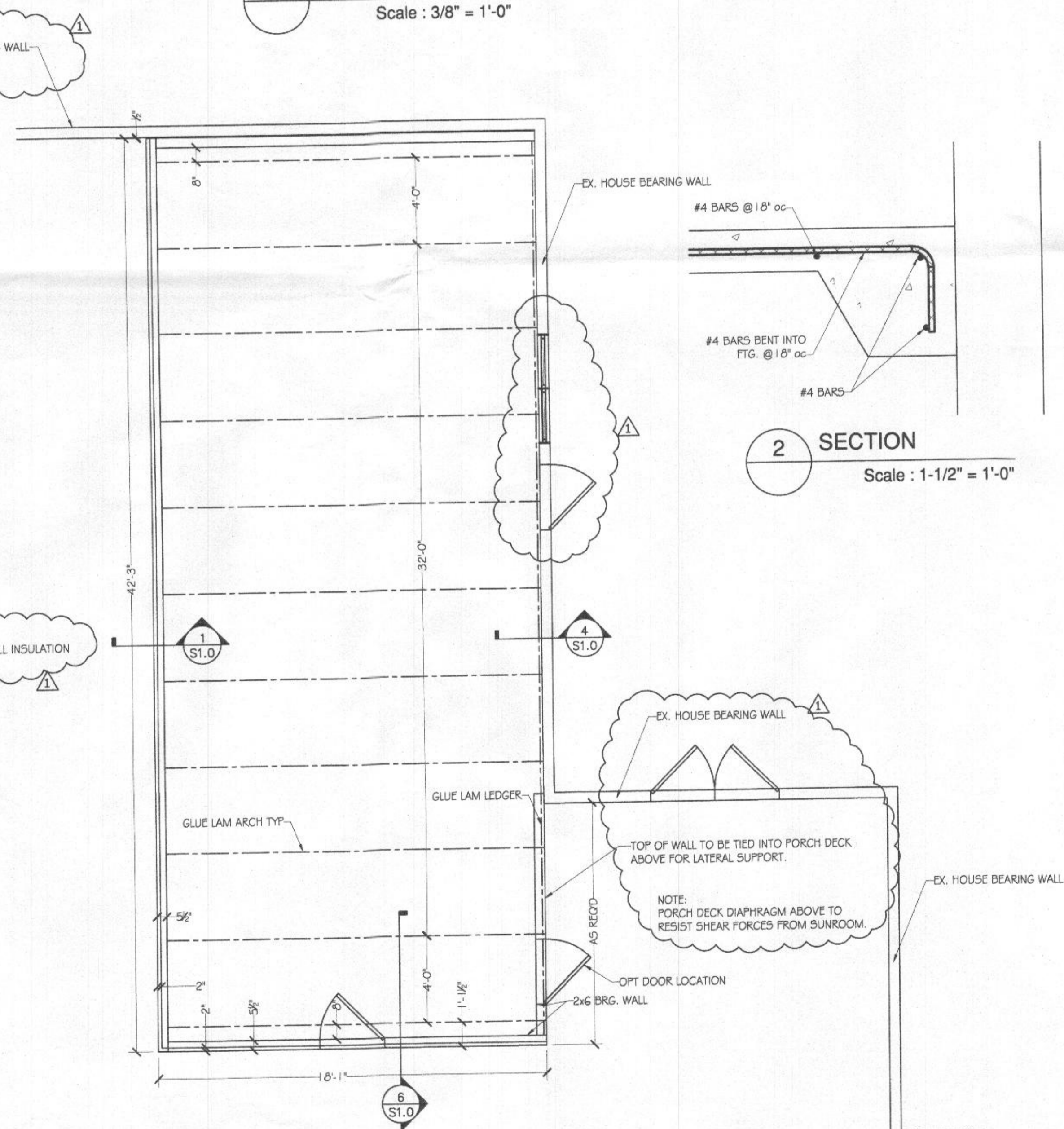
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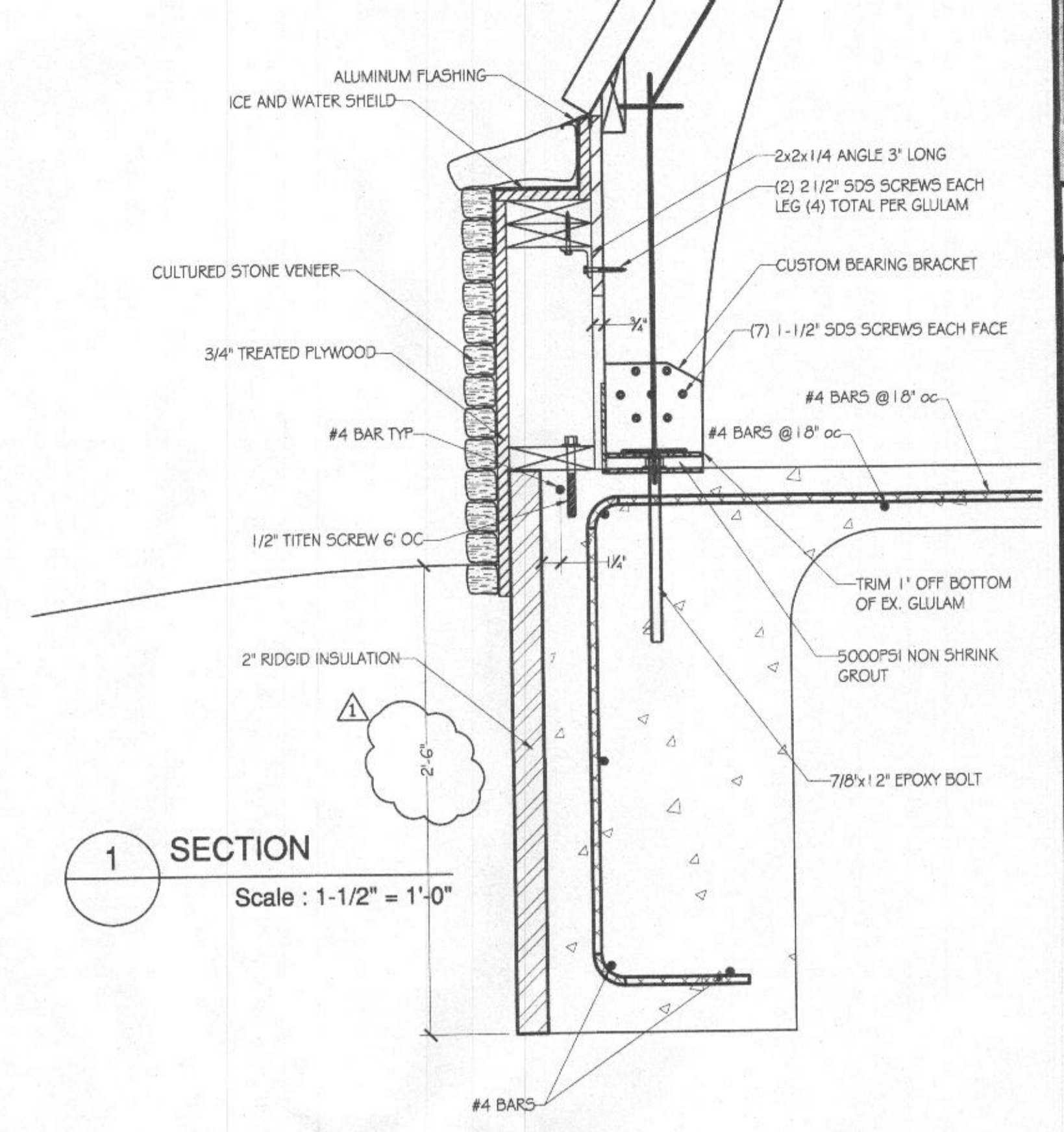
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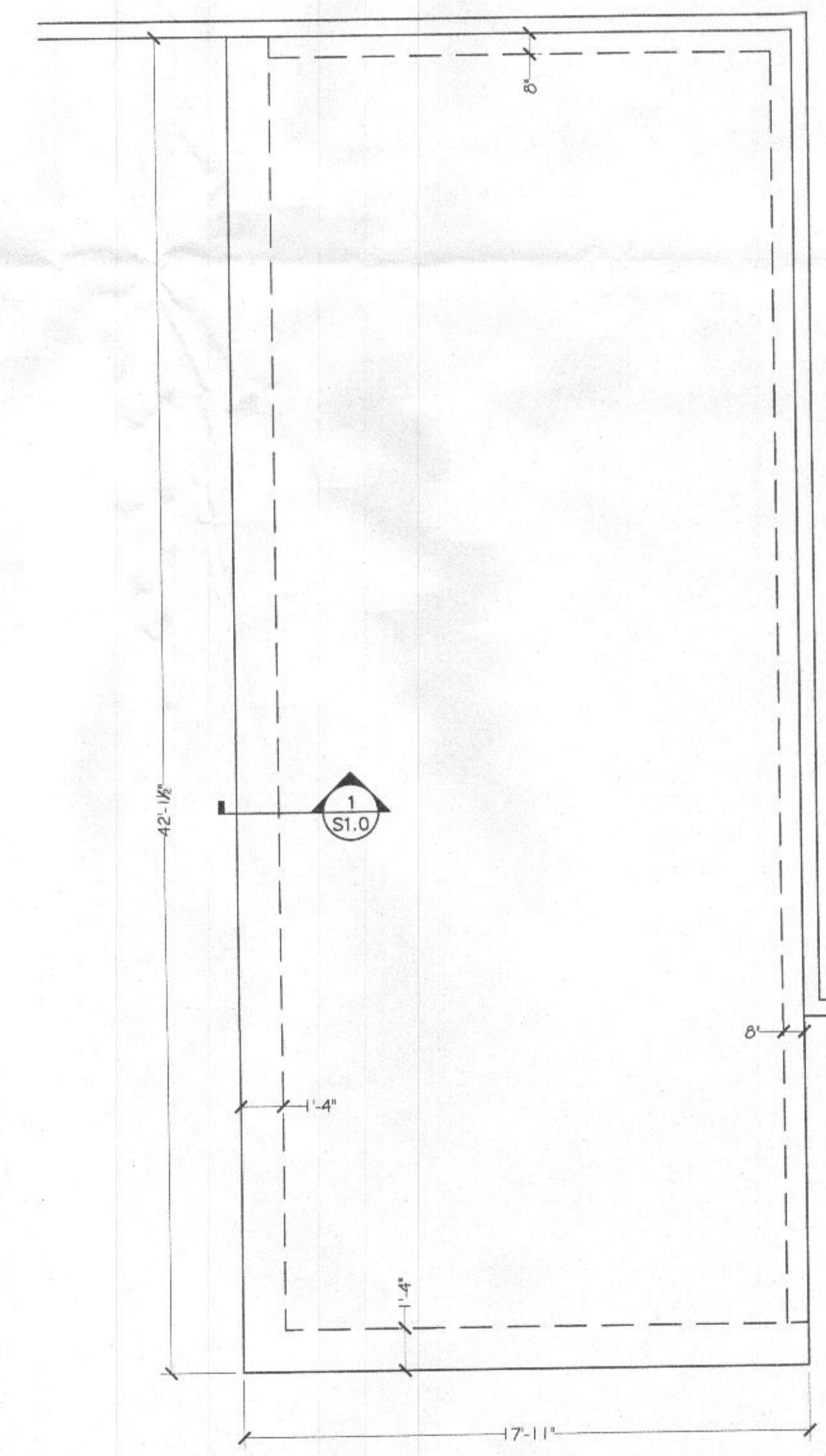
**7 BRACKET DETAIL**  
 Scale : 3" = 1'-0"



**FRAMING PLAN**  
 Scale : 1/4" = 1'-0"



**1 SECTION**  
 Scale : 1-1/2" = 1'-0"

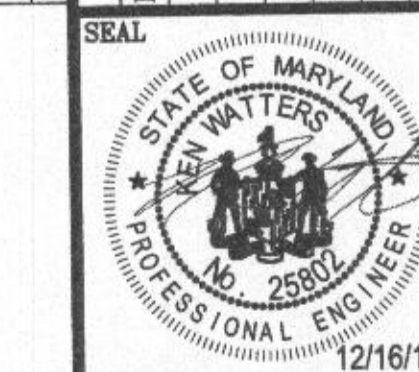


**FOUNDATION PLAN**  
 Scale : 1/4" = 1'-0"

**FOUNDATION PLAN**  
**CHOI RESIDENCE**  
 1482 BURNT WOOD ROAD  
 GLENWOOD, MD 21738

CLIENT: HERITAGE BUILDERS

NO.	REVISION BLOCK	REVISION/ISSUE	DATE
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2			

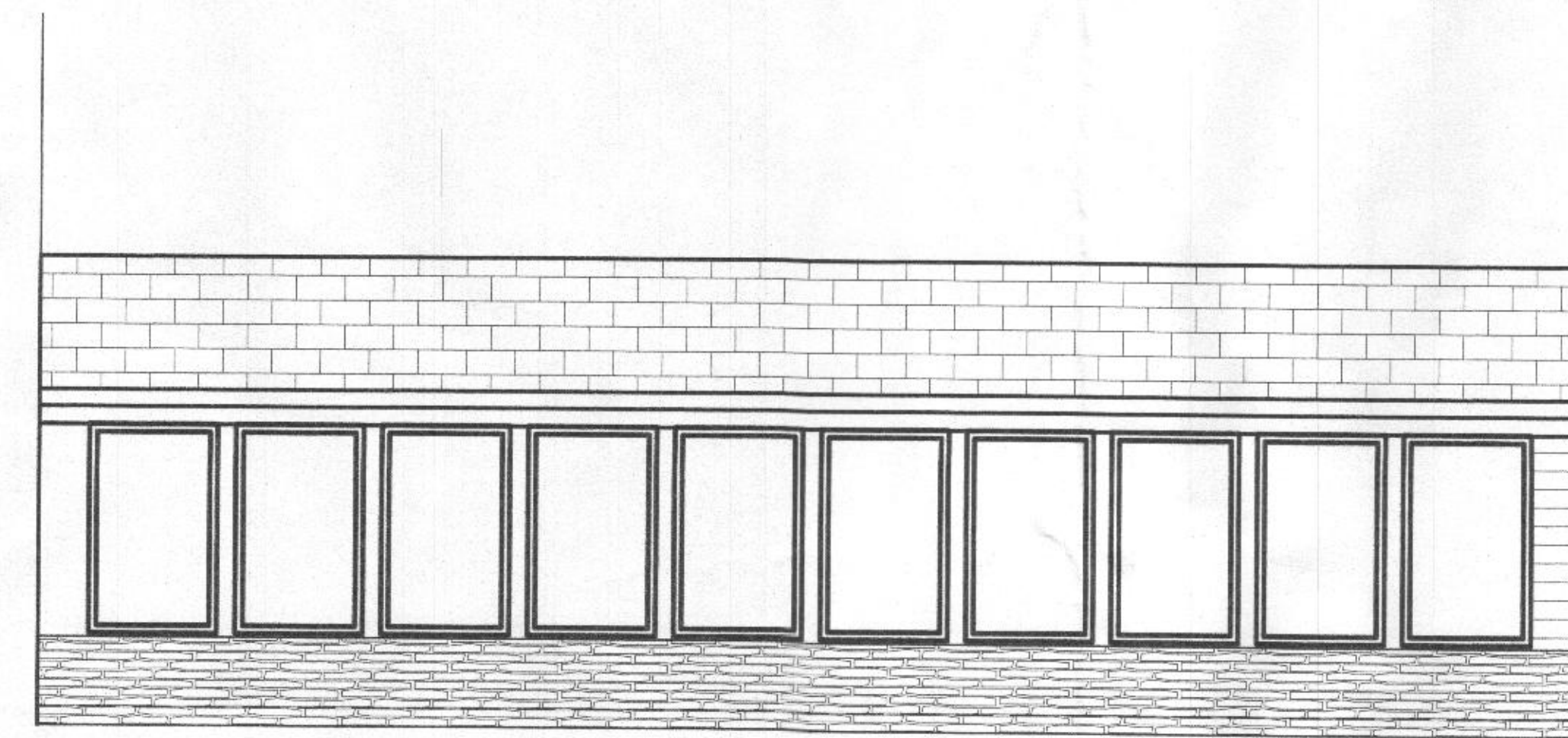
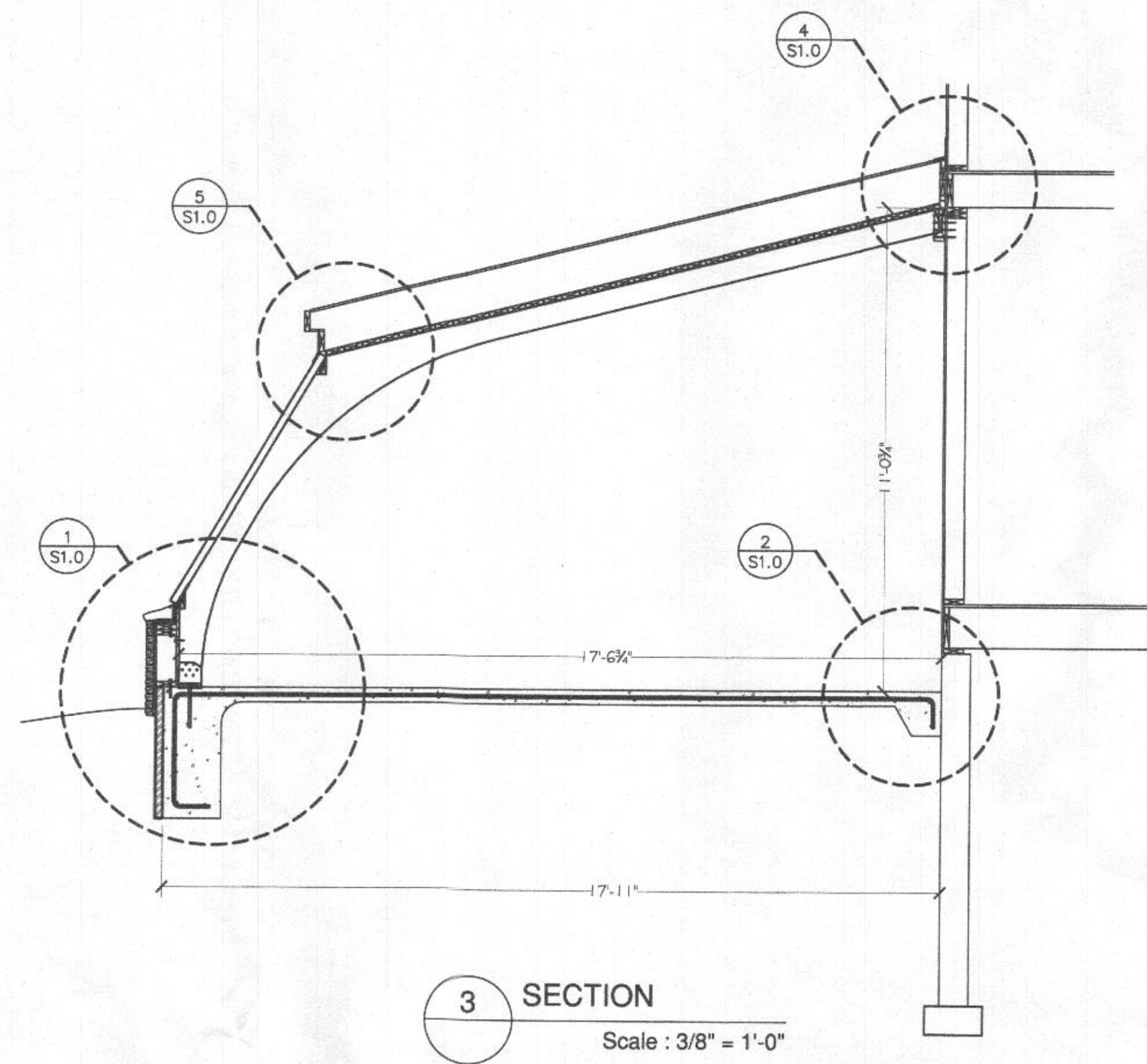


KENNETH A. WATTERS II  
 LIC# 25802  
 Exp. 1-31-17

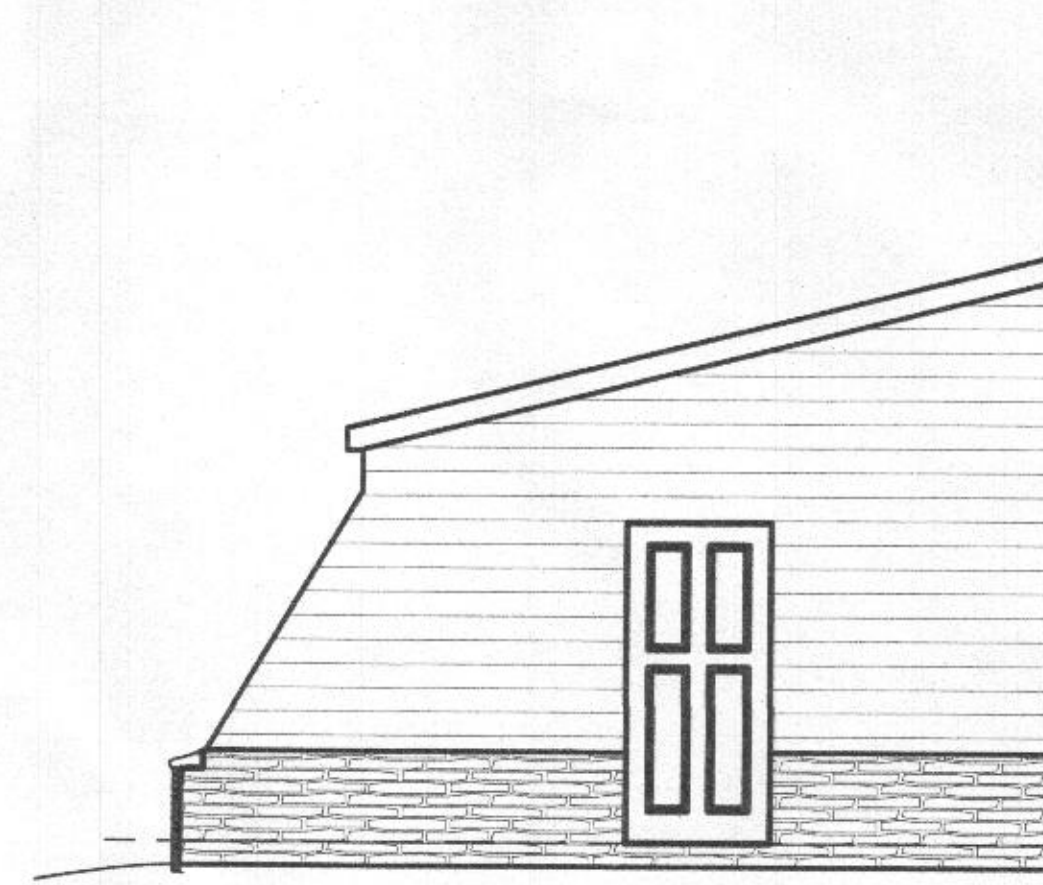
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 DATE: 11-4-14

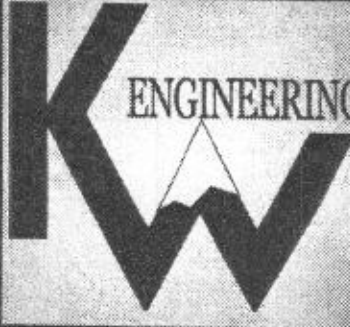
**SI.0**



**YARD ELEVATION**  
Scale : 1/4" = 1'-0"



**DRIVEWAY ELEVATION**  
Scale : 1/4" = 1'-0"



2053 WEST WOODBINE RD  
AIRVILLE, PA 17302  
717-862-3455

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CHOI RESIDENCE  
14821 BURNT WOOD ROAD  
GLENWOOD, MD 21738

CLIENT:  
HERITAGE BUILDERS

NO.	REVISION / ISSUE	DATE
1	CLIENT / PLANS REVIEWER REQUESTED CHANGES	12/16/15
2		



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LIC#: 25802  
Exp: 1-31-17

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