

PERMIT NUMBER: B 23002226

DATE ACCEPTED:

**RESIDENTIAL BUILDING PERMIT APPLICATION**  
 HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS  
 3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4  
 www.howardcountymd.gov

**BUILDING SITE ADDRESS REQUIRED**

Street Address: **3425 Shady Lane** Unit: \_\_\_\_\_  
 City: **Glenwood** State: **MD** Zip Code: **21738**  
 Subdivision/Village/Complex Name: \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_  
 Lot: \_\_\_\_\_ Tax Map: \_\_\_\_\_ Parcel: \_\_\_\_\_ Grading Permit #: \_\_\_\_\_

**DESCRIPTION OF WORK REQUIRED**

Existing Use: **Grass** Proposed Use: **Residential Deck** Estimated Cost: **\$20,000.00**  
 Trade Work to Be Completed (Separate Permits Required):  Mechanical (HVACR)  Electrical  Plumbing  None  
 Homeowner builds a deck.  
 Deck 17' x 15-5' SFD, build irregular shaped deck, Deck 2a and 2b 21' x 19' w steps

**PROPERTY OWNER INFORMATION REQUIRED**

Owner(s) Name(s) (As it appears on tax records): **Eric and Susan Bishop** Primary Residence:  Yes  No  
 Owner's Street Address: **3425 Shady Lane**  
 City: **Glenwood** State: **MD** Zip Code: **21738**  
 Phone: **(410) 442-0009** Email: **ebishop@comcast.net**

**APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION**

Business Name: \_\_\_\_\_ Contact Name: **Eric Bishop**  
 Street Address: **3425 Shady Lane**  
 City: **Glenwood** State: **MD** Zip Code: **21738**  
 Phone: **(410) 442-0009** Email: **ebishop@comcast.net**

**CONTRACTOR INFORMATION REQUIRED**

Business Name: **NONE**  
 Licensee's Name: **Homeowner to act as contractor** License #: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**ARCHITECT/ENGINEER INFORMATION INDIVIDUAL WHO SIGNED PLANS, IF APPLICABLE**

Business Name: \_\_\_\_\_ Name: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**BUILDING CHARACTERISTICS REQUIRED**

Primary Structure:  SF Dwelling  SF Townhouse  SF Duplex  Mobile Home  Multi-Family Dwelling (MF\*) Condo:  Yes  No  
 Utilities:  Electric  Gas Water Supply:  Public  Private (Well) Sewage Disposal:  Public  Private (Septic)  
 Heating System:  Electric  Natural Gas  Propane  Other: **Geothermal** Roadside Tree Project:  No  Yes: # \_\_\_\_\_  
 Sprinkler System:  NFPA 13  NFPA 13R  NFPA 13D  None Fire Alarm System:  Yes  No  Voice Evac

**ADDITIONAL RESIDENTIAL INFORMATION (PLEASE SELECT/COMPLETE ALL THAT APPLY)**

Model Name & Options: \_\_\_\_\_  
 # of Bedrooms (SF): \_\_\_\_\_ # of efficiency units (MF\*): \_\_\_\_\_ # of 1 BR (MF\*): \_\_\_\_\_ # of 2 BR (MF\*): \_\_\_\_\_ # of 3 BR (MF\*): \_\_\_\_\_  
 # Rooms: \_\_\_\_\_ # Full Baths: \_\_\_\_\_ # Half Baths: \_\_\_\_\_ # Fireplaces: \_\_\_\_\_  
 Garage/Carport Info:  Attached Garage  Detached Garage  Integral Garage  Carport  None  
 Basement/Foundation Info:  Slab on Grade  Post & Pier  Unfinished Basement  Finished Basement:  Full or  Partial  
 1<sup>st</sup> Fl Width: \_\_\_\_\_ 1<sup>st</sup> Fl Depth: \_\_\_\_\_ 2<sup>nd</sup> Fl Width: \_\_\_\_\_ 2<sup>nd</sup> Fl Depth: \_\_\_\_\_ Bsmt Width: \_\_\_\_\_ Bsmt Depth: \_\_\_\_\_  
 Energy Method:  Prescriptive  Performance  UA Alternative  ERI Gross Area: \_\_\_\_\_ sq ft Occupiable Area: \_\_\_\_\_ sq ft

**AGREEMENT/ DISCLAIMER REQUIRED**

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.

*Eric Bishop* DATE SIGNED: **6/20/23**

**FOR OFFICE USE ONLY** CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY

AGENCIES REQUIRED/APPROVALS: \_\_\_\_\_

PR  DPZ  DED  Health  SHA  CID

SUBMITTAL FEES: **\$55** PAYMENT: **Check # 8429** ACCEPTED BY: **TR**

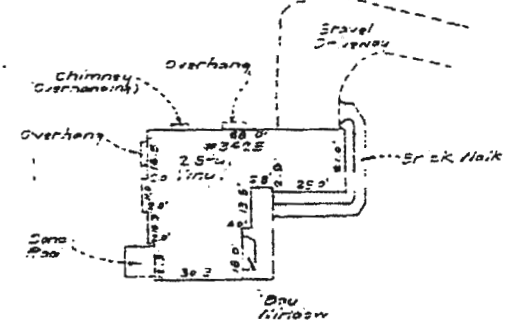
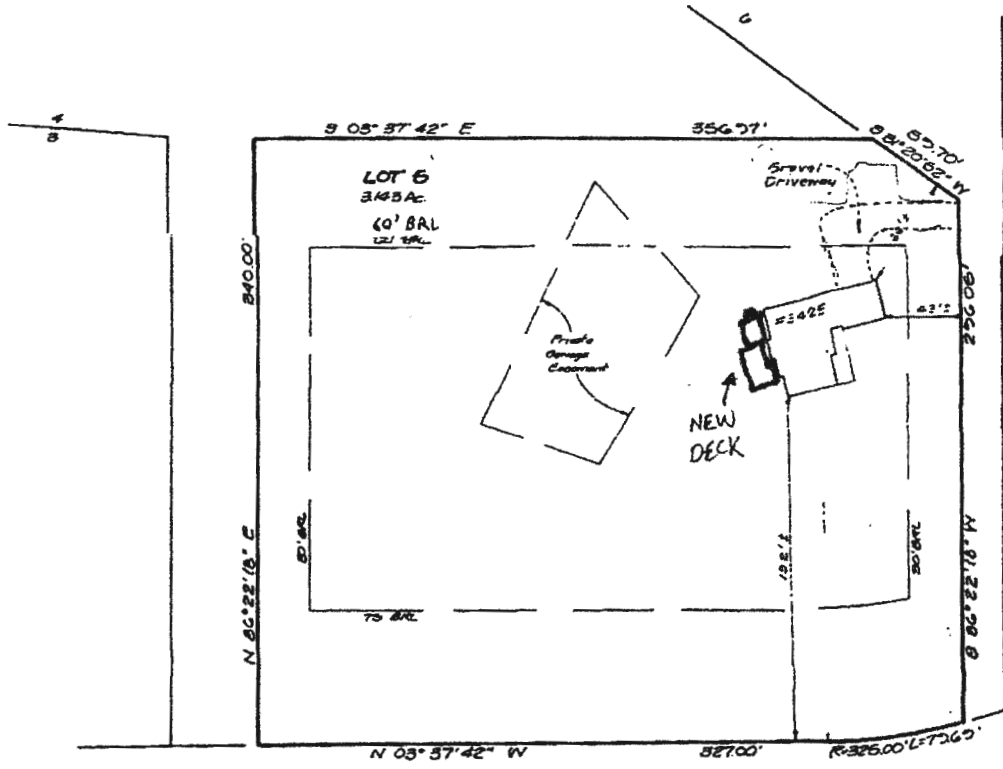
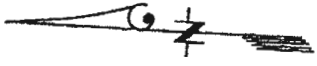
NOTE: This Lot lies in an area classified as Zone C, area of minimal flooding as shown on FIRM MAP of HOWARD County, Maryland, Community Panel Number 8400-44 0020B, Panel 20 of 46 dated December 4, 1986.

CONSUMER INFORMATION

- 1) This plat is of benefit to the consumer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing purposes;
- 2) This plat is not to be relied upon for the establishment or location of fences, garages, buildings or other existing or future structures;
- 3) This plat does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or for securing financing or refinancing.

PLAT FOR BISHOP DECK

Well Check: 5-10-95  
 = R.. Elev. 583.0  
 F.C.M.: 3-28-95



SCALE: 1"=20'

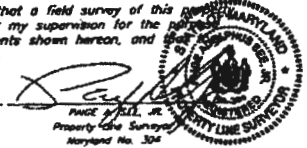
SHADY LANE

NOTE:  
 1. Setback Distance Accuracy = 1"±

SURVEYOR'S CERTIFICATE

I hereby certify that a field survey of this plat has been made under my supervision for the purpose of locating improvements shown hereon, and that they are located as shown.

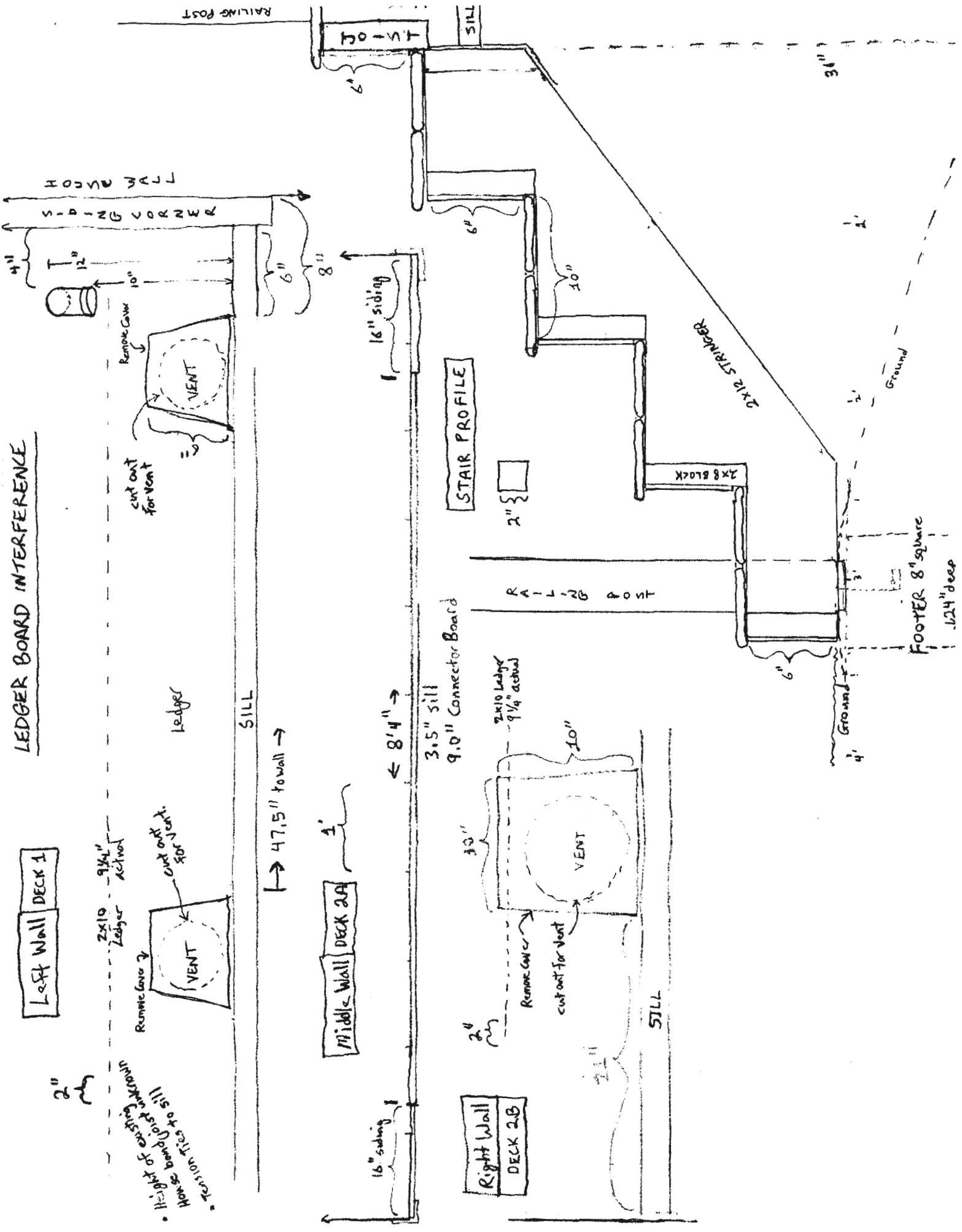
9-28-95



Plat Reference: Plat No. 773d

<b>CLARK · FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS · PLANNERS · SURVEYORS		7135 BRISTOL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH.	
DESIGNED	LOCATION DRAWINGS 3425 SHADY LANE	SCALE	1"=50'
DRAWN	LOT 5 THE KNOLLS	DRAWING	
CHECKED	LOTS 3-G A RESUBDIVISION OF LOT 1 PLAT 736G	JOB NO.	
DATE	FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	FILE NO.	95-067-0
9-28-95	FOR COVENANT HOMES P.O. Box 1713 Ellicott City, Md 21041		

**LEDGER BOARD INTERFERENCE**



Left Wall DECK 1

Middle Wall DECK 2A

Right Wall DECK 2B

STAIR PROFILE

HOUSE WALL  
SIDING CORNER

• H=1/2" of existing  
house board (fasten  
to sill)  
• Reaction ties to sill

Remove Cover

cut out for vent

Ledger

Remove Cover

cut out for vent

Remove Cover

cut out for vent

SILL

SILL

→ 47.5" to wall →

← 8'4" →

3.5" sill

9.0" Connector Board

2x10 Ledge  
9 1/4" actual

10"

2x8 BLOCK

2x12 STRINGER

RAILING POST

SILL

1x4 JOIST

RAILING POST

FOOTER 8" square  
124" deep

4" Ground

Ground

3"

1'

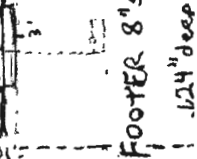
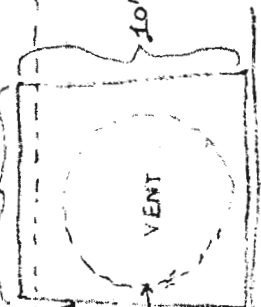
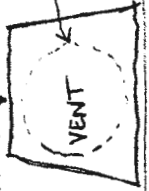
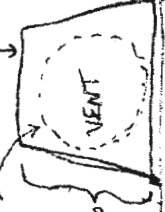
10"

2"

2 1/2"

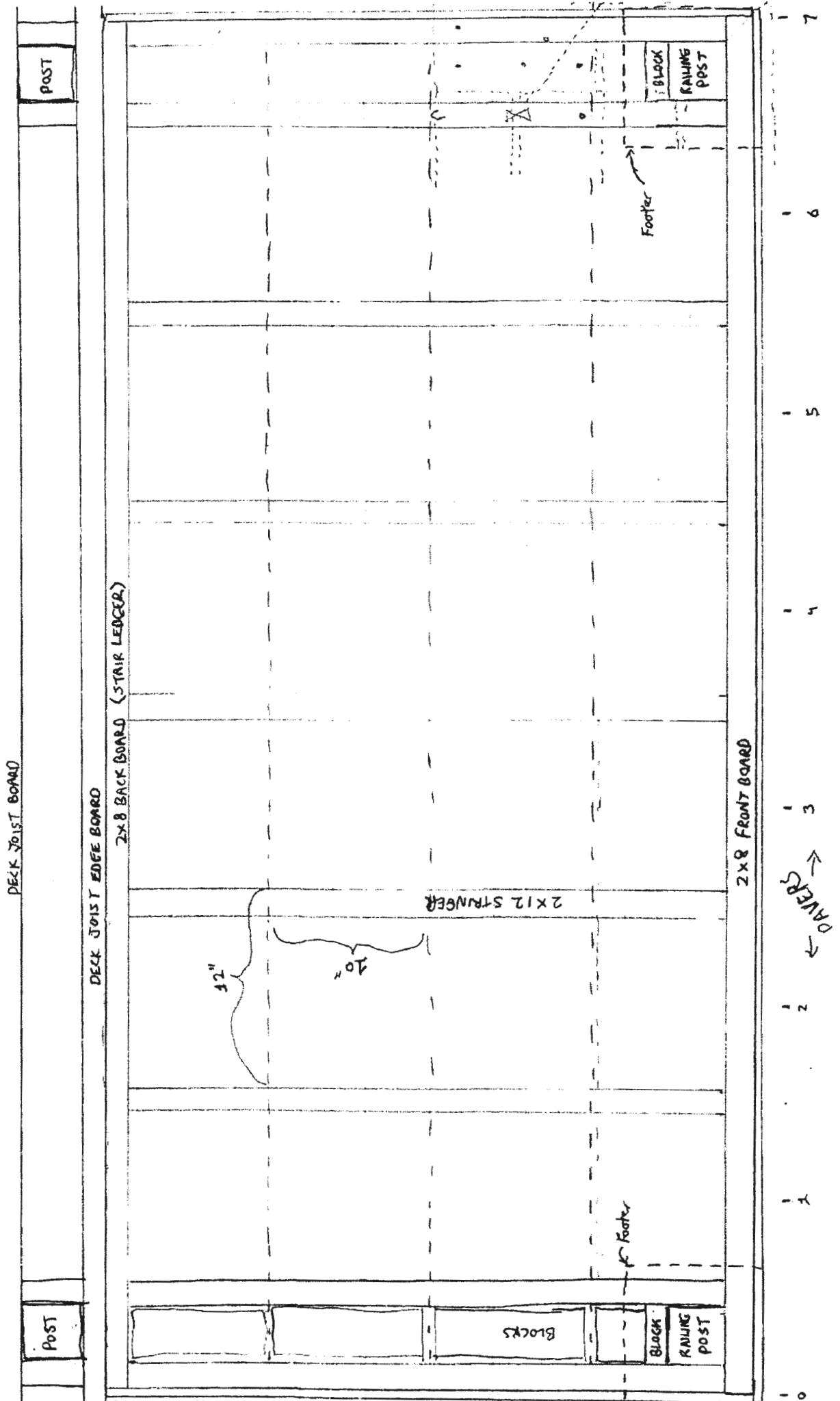
16" siding

16" siding





# STAIR FRAME DESIGN



# Deck Design Details for Howard County Building Permit:

## Submitted by:

Eric Bishop  
3425 Shady Lane  
Glenwood, MD 21738  
(410) 442-0009 (home)  
(410) 707-6593 (mobile)

## Documentation Submitted with Permit application:

1. Plat Diagram of lot with dwelling and new decks (indicated in red).
2. Deck Permit Documentation - Detailed description of design (this document)
3. Diagrams for:
  - a. Overall Deck Design (two level, three ledger boards, one stair set)
  - b. Stair Design
  - c. Ledger Board Interference detailed diagrams
4. Pictures:
  - a. Back of home
  - b. Close up photos of ledger attachment areas
  - c. Close up view of stair area
  - d. Picture of geothermal private utility ground loop ditch during construction
  - e. Rough online design application vision of deck

## Footer Details:

1. 18" diameter round forms for ten (10) "Deck 1" and "Deck 2" footers. 36" deep for all deck footers.
2. 8" square forms for 2 Stair footers under bottom railing posts. 24" deep for two stair footers.
3. High Strength (4000 PSI) Concrete
4. Embedded "L" bolt for deck or stair support post base.

## Ledger Board:

1. Deck 1 (see main deck design diagram), 2x10" Ledger board with two cutouts for bathroom vents (see Ledger Board Interference diagram and close-up pictures of the area)
2. Deck 2a (see main deck design diagram), 2x10" Ledger board
3. Deck 2b (see main deck design diagram), 2x10" Ledger boards – one on each side of the kitchen cooktop vent (see Ledger Board Interference diagram and close-up pictures of the area)
4. All Ledger boards flashed and taped according to Howard County guidelines.
5. All Ledger boards attached with 3 5/8" LedgerLOC structural screws in a code-compliant pattern.

## Framing

1. 6x6 support posts above all footers (except stairs are 4x4).
2. Beams (see Design Diagram):
  - a. Deck 1:
    - i. Beam Size: (3 wide) 2x12, 15' 6" Long (length is a single board).
    - ii. Post Cap Installation on 6x6 Post.
    - iii. Beam Span: 11' 6" with 2' overhang on each end.
  - b. Deck 2:
    - i. Beam Size: (2 wide) 2x12, 20' 6" Long (length is a single board).

- ii. Notched Post Installation on 6x6 Post.
  - iii. Beam Span: 8' 6" with 2' overhang on each end.
3. Joists (see Design Diagram):
- a. All Joists are 2x8, 12" on center.
  - b. Blocking between all joists above each beam.
  - c. Tension Ties under two outer joists at the end of each Ledger Board (six, total).
  - d. Deck 1:
    - i. Joist Span: 7' 6" with 2' overhang.
    - ii. A single 17' 0" board connects to Ledger and two Beams.
  - e. Deck 2a:
    - i. Joist Span: 6' 6" (Ledger to Beam) and 8' 6" (between Beams) with 2' overhang.
    - ii. A single 17' 0" board connects to Ledge and two beams.
  - f. Deck 2b:
    - i. Joist Span: 8' 6" with 2' overhang. Connects to Ledger and two Beams.
    - ii. A single 19' 0" board connects to Ledge and two beams.
4. Railing:
- a. Railing around all edges of the deck, except against house.
  - b. 4x4 Support Posts every 5', installed through decking to frame.
  - c. Composite Railing with drink rail.

**Stairs:**

1. Seven foot wide stairs with 5 risers and 4 treads below the main deck.
2. 2x12 stringers, 12" on center.
3. 2x8 stair ledger and bottom board.
4. Treads are 11", Risers are 7 ¼".
5. Safety railing on each side attached to 4x4 support posts installed through decking to frame.
6. Safety rail posts at the bottom are mounted to 8" square poured concrete footers.

**Decking:**

1. TimberTech Capped Composite Decking for deck and stairs.
2. Decking installed 90 degrees to Joists (except edge boards that have underlying blocking)