

001 06 2020

PERMIT NUMBER: B 20003580

DATE ACCEPTED:

LICENSES & PERMITS DIVISION

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: **14630 Old Frederick Road** Unit: _____
 City: **Woodbine** State: **MD** Zip Code: **21797**
 Subdivision/Village/Complex Name: _____ SDP/WP/BA #: _____
 Lot: **3** Tax Map: _____ Parcel: **0360** Grading Permit #: _____

DESCRIPTION OF WORK REQUIRED

Existing Use: **Single Family Dwelling** Proposed Use: **Single Family Dwelling** Estimated Cost: **\$ 100,000.00**
 Trade Work to Be Completed (Separate Permits Required): Mechanical (HVACR) Electrical Plumbing None
Whole House Renovations AND
Emergency repair of structural integrity of center beam in basement by moving stairs to allow for beam replacement;
Additional scope of work is included to accomodate for the relocation of stairs and other remodeling.
 4884 sq ft

PROPERTY OWNER INFORMATION REQUIRED

Owner(s) Name(s) (As it appears on tax records): **Donald and Catherine Carter** Primary Residence: Yes No
 Owner's Street Address: **14630 Old Frederick Road**
 City: **Woodbine** State: **MD** Zip Code: **21797**
 Phone: **(301) 693-4469** Email: **carterclan2001@gmail.com**

APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION

Business Name: **n/a** Contact Name: **Donald and Catherine Carter**
 Street Address: **14630 Old Frederick Road**
 City: **Woodbine** State: **MD** Zip Code: **21797**
 Phone: **(301) 693-4469** Email: **carterclan2001@gmail.com**

CONTRACTOR INFORMATION REQUIRED

Business Name: **homeowner**
 Licensee's Name: _____ License #: _____
 Street Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Email: _____

ARCHITECT/ENGINEER INFORMATION INDIVIDUAL WHO SIGNED PLANS, IF APPLICABLE

Business Name: **Integrity Structural Engineering** Name: **Frank Roscoe**
 Street Address: **1048 B Stone Brook Road**
 City: **Sykesville** State: **MD** Zip Code: **21797**
 Phone: **(443) 277-0592** Email: **frank.integrityengineeringmd@gmail.com**

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: _____ 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): **4** # of efficiency units (MF*): _____ # of 1 BR (MF*): _____ # of 2 BR (MF*): _____ # of 3 BR (MF*): _____
 # Rooms: **10** # Full Baths: **2** # Half Baths: **1** # Fireplaces: **0**
 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
 1st Fl Width: **49** 1st Fl Depth: **70** 2nd Fl Width: _____ 2nd Fl Depth: _____ Bsmt Width: **44** Bsmt Depth: **32**
 Energy Method: Prescriptive Performance UA Alternative ERI Gross Area: **2,559** sq ft Occupiable Area: **4,884** sq ft

AGREEMENT/ DISCALIMER 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.

 DATE SIGNED: **10/3/20**
 APPLICANT'S ORIGINAL SIGNATURE DATE SIGNED

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

AGENCIES REQUIRED/APPROVALS:
 PR _____ DPZ _____ DED _____ Health **11/19/2020** SHA CID
 SUBMITTAL FEES: **\$135.00** PAYMENT: \$1385 \$135 ACCEPTED BY: _____

mail

To the building permit inspection office,

During COVID19 an emergency repair was done for the structural integrity of our home. It was found that the house was experiencing significant floor movement up and down, when analyzed it was discovered the previous owner had cut the center beam and joists improperly to fit stairs in original location using inadequate 2x4 walls to replace. To immediately insure the structural integrity of home, 3 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam LVL were placed with temporary steel lally columns until structural plans completed, and permit pulled. The stairs had to be moved to make room for the emergency LVL beam placement. An engineering inspection was done on current work and seen as structurally sound with further recommendations to make it permanent. Additional scope of work is included to accomodate for the relocation of stairs and other remodelling. We spoke with the Howard County building inspection director to make him aware of the situation we found ourselves in and steps forward to submit all paperwork necessary to begin the permit process. We are including engineering drawings and residential proposed layout for reference. We appreciate any further guidance needed to follow proper permit processes.

Sincerely,

Donald and Catherine Carter

301-693-4469

carterclan2001@gmail.com

CARTER RESIDENCE

14630 Old Frederick Rd
Woodbine, MD 21797

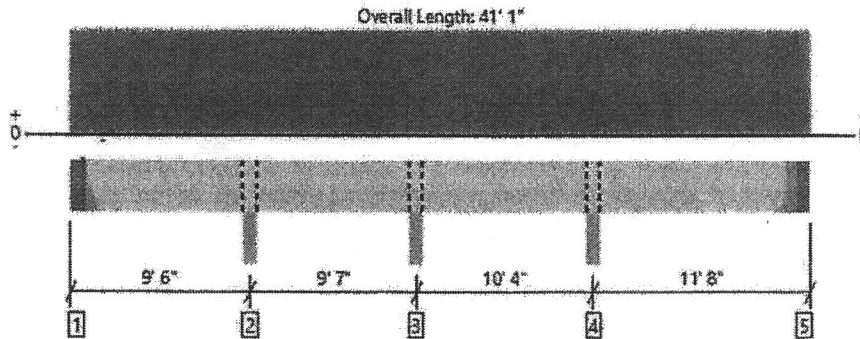
Determination the size of floor beam



MEMBER REPORT

PASSED

Level, Floor: Drop Beam
3 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	IDF	Load: Combination (Pattern)
Member Reaction (lbs)	11363 @ 29' 5"	13322 (3.50")	Passed (85%)	--	1.0 D + 1.0 L (Adj Spans)
Shear (lbs)	5202 @ 30' 4"	9227	Passed (56%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-12146 @ 29' 5"	16806	Passed (72%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.262 @ 35' 4 3/4"	0.379	Passed (L/520)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.341 @ 35' 5 11/16"	0.569	Passed (L/400)	--	1.0 D + 1.0 L (Alt Spans)

System : Floor
Member Type : Drop Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Hanger on concrete	3.50"	Hanger ¹	1.50"	954	2765/-176	3719/-176	See note 1
2 - Column - SPF	3.50"	3.50"	2.59"	2633	7209	9842	Blocking
3 - Column - SPF	3.50"	3.50"	2.45"	2237	7079	9316	Blocking
4 - Column - SPF	3.50"	3.50"	2.99"	3118	8246	11364	Blocking
5 - Hanger on concrete	3.50"	Hanger ¹	1.50"	1184	3274/-106	4458/-106	See note 1

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.
- At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger
- 1 See Connector grid below for additional information and/or requirements.

Determination the footing size for 2 post

End reaction from floor:

9842 lb

9842 lb / 1500 lb/ft² = 6.56 ft²

Use 32x32 footing 32" x 32" / 144 = 7.11 ft² > 6.56 ft²



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Description of Work

Square Footage of Work Area: 3,122 square feet

Basement 43 x 32 ft 1376 sq ft

- Rec Room 715 sq ft
 - Structural Repairs
 - Center Beam Repair
 - Repair compromised structure from previous owner
 - Replace 2x4 wall in center and 2 center beams that had been cut by previous owners
 - Replace with 3 LVL beams
 - Replace with 3 posts with footers
 - Stairs Repair
 - Move centered basement stairs to corner of basement
 - Repair joints cut by previous owner
 - Reinforce joints with additional joints along side
 - Non-structural
 - Add walls, electrical, lighting
 - Finish
- Bathroom remodel 78.42 sq ft
 - Update stud work
 - Move toilet drain
 - Replace tub/shower with just shower
 - Update plumbing
 - Finish
- Exercise room 214.95 sq ft
 - Add walls, electrical, lighting
 - Structural change: Add window
 - Finish
- Utility Room 124.12 sq ft
 - Add walls
 - Leave interior unfinished

~~Add Kitchenette~~
 Add kitchenette
 - plumbing, cabinets
 - electric

Main level 32 x 44 : 1,408

- No loadbearing interior walls on main level/1st floor of rancher due to the attic truss structure where load is on exterior walls only
- Great Room 391 sq ft
 - Combine living room, dining room, den, and kitchen into one great room
 - Remove walls separating rooms
- Half bath 36 sq ft
 - Move half bath from the mudroom to next to great room/foyer
 - Add walls, electrical and plumbing
 - Finish

- Coat closet 51 sq ft
 - o Next to the stairs
 - o Add walls
- Mudroom 73 sq ft : Pantry 48 sq ft
 - o Move half bathroom, see above
 - o Add wall to make half mudroom, half walk-in pantry
 - o Move garage door over to corner
 - o Remove washer/dryer hookup (to be moved into laundry room by bedrooms)
- Kitchen 305 sq ft
 - o Replace cabinets
 - o Extend wall
 - o Add center island
- Dining Room 243
 - o Remove wall between original dining room and den
 - o Remove partial wall between kitchen and den

Bedrooms Area

- No loadbearing interior walls on main level/1st floor of rancher due to the attic truss structure where load is on exterior walls only
- 3/4 Bathroom 41 sq ft
 - o Convert coat and hallway closet to bathroom (shower, toilet, and sink)
 - o Move side wall to make bathroom larger
- Laundry room 95 sq ft
 - o Convert bedroom into laundry room
 - o Add plumbing and electrical for washer/dryer hook up
 - o Reconfigure wall and door
- Bedroom One 127 sq ft
 - o Add wall to split room into 2 bedrooms
 - o Reconfigure wall and door
 - o Move closet
- Bedroom Two 127 sq ft
 - o Reconfigure wall and closet
- Bedroom Three 127 sq ft
 - o Reconfigure wall, door and closet
- Master Bedroom 291 sq ft
 - o Move interior wall by 1 ½ feet to add square footage to bedroom 3

OCT 28 2000

Description of Work

B20003580

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Basement 43 x 32 ft 1376 sq ft

RECEIVED

OCT 26 2020

LICENSES & PERMITS
DIVISION

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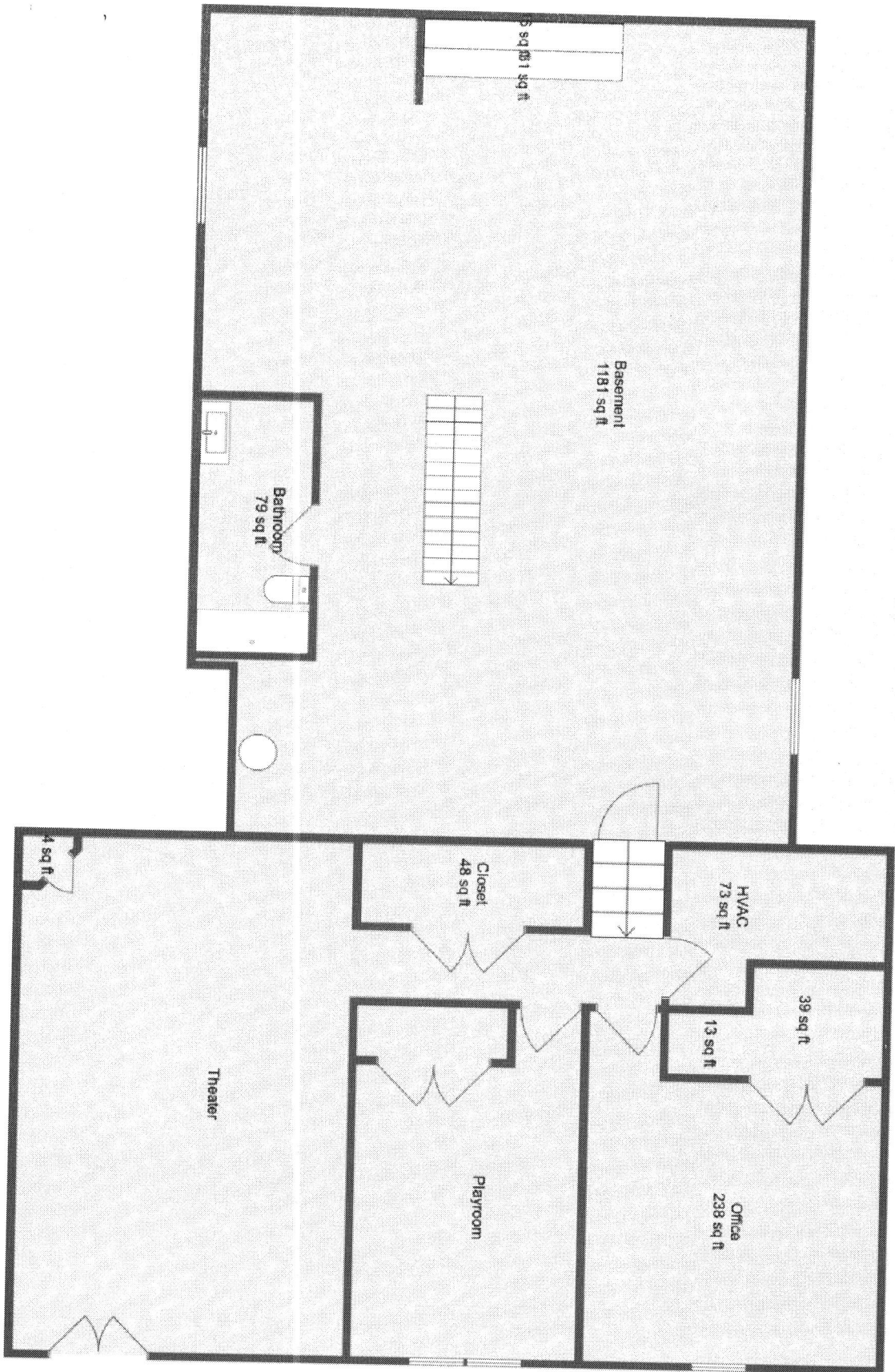
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OCT 28 2009

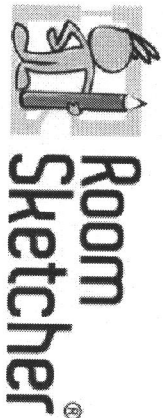
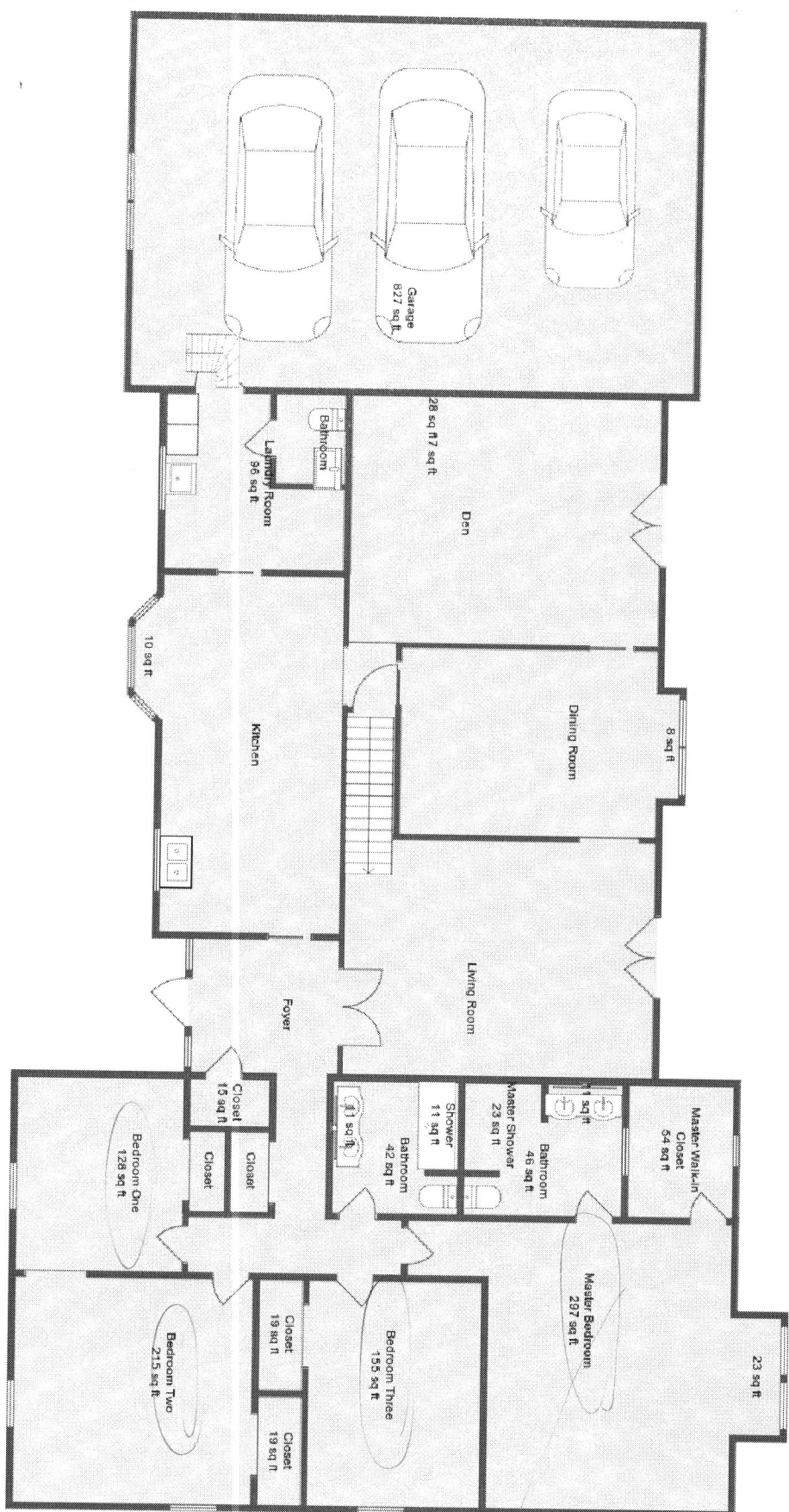
House

8. Existing Basement Plan



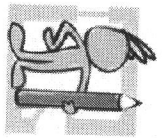
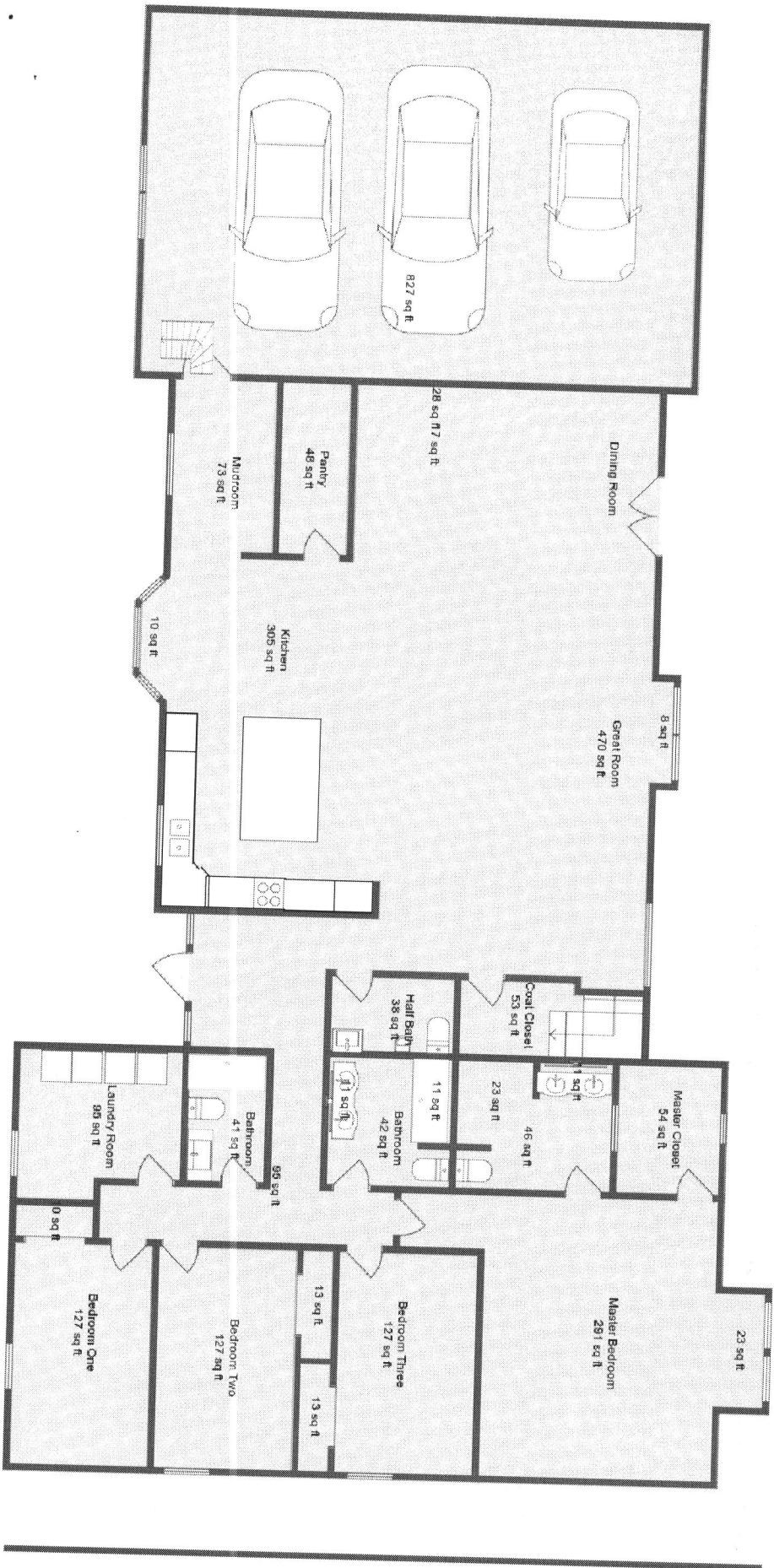
House

7. Existing Main Floor Plan



House

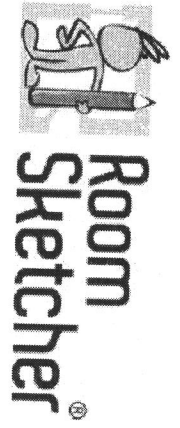
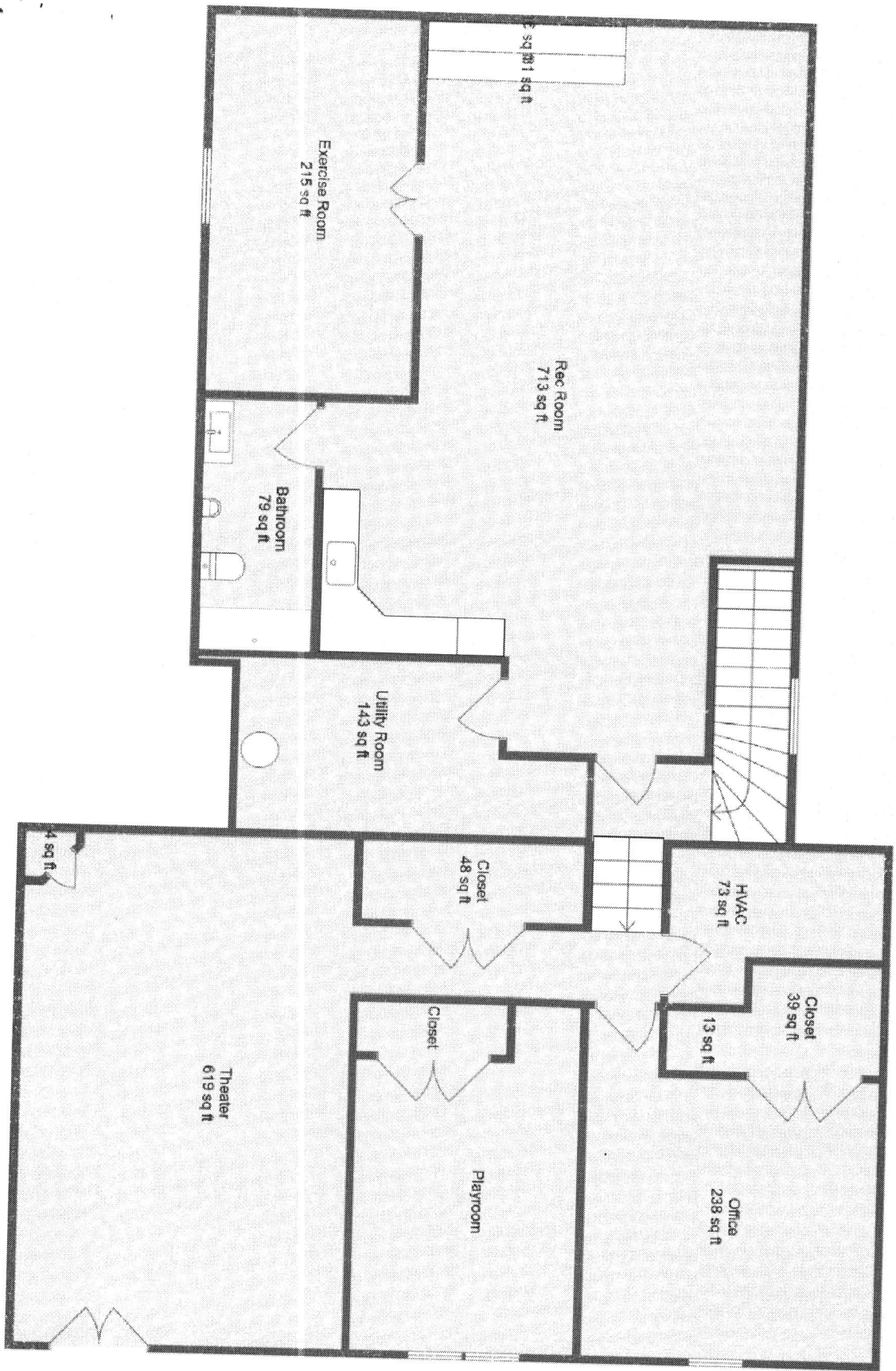
6. Proposed Main Floor Plan



Room
Sketcher®

House

2. Proposed Basement Plan



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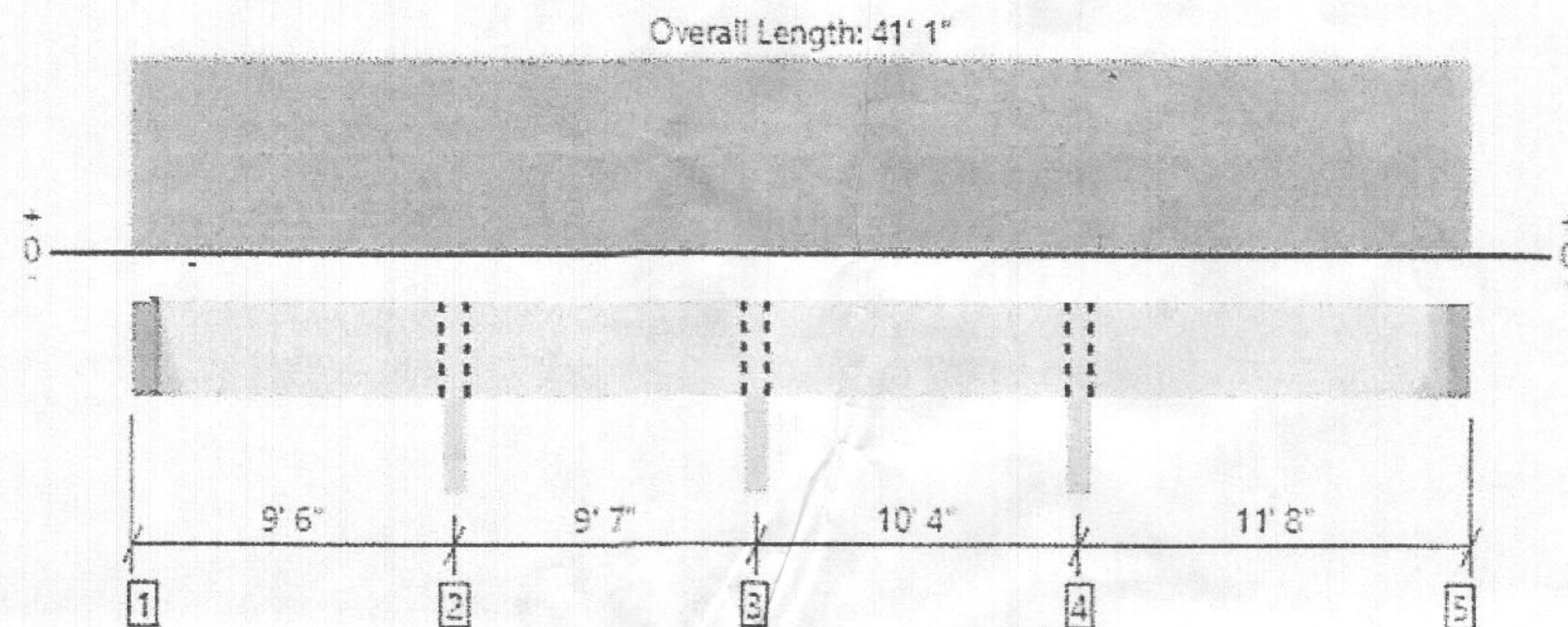
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[Handwritten Signature]

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