

**COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:**

Date: 5-10-2024 ONLINE SUBMITTAL PAPER SUBMITTAL

To: Adolphe Huriaux DLP Plan Review
(Reviewer/Requestor's Name) (Division)

From: ZN Drafting, LLC 855.914.4999
(Your Name, Company Name) (Phone Number)

Subject: Project name _____
Project site address 11001 Guildford Road Annapolis Junction
Permit # B21000847 SDP # _____
Other information pertinent to this project _____

Please check the attachments below that you are submitting with this transmittal:

- Letter of response to address plan review comment letter
- Revised plans and/or revised details: When submitting for a complete re-review, **duplicate sets shall be submitted.**
- Letter Summarizing Changes
- Energy conservation calculations
- Copies of _____ (be specific).
 Health Department Request DPZ/ DED Request Applicant's Request
- Two sets of single-family model plans to be placed on permanent file: Model Name/ # _____
- Other _____

Contact Person Information: (Required)

Novie Siegars Telephone No: 855.914.4999
Please Print Name
E-Mail Address: info@zndrafting.com

PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455 OPTION #4 OR BY VISITING MYHOWARD.INFO. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

Received by 

White-Plan Review / Yellow-Applicant / Pink-Permit Division
T:\Operations\Updated forms\HoCoTransmittalForm05.2022

RECEIVED

MAY 13 2024

LICENSES & PERMITS
DIVISION

Approved
MRB 6/10/24

B21060847




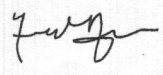



RAMP SLOPE:
1 INCHES : 12 INCHES

RAMP ELEVATION
SCALE: 1/8" = 1'-0"

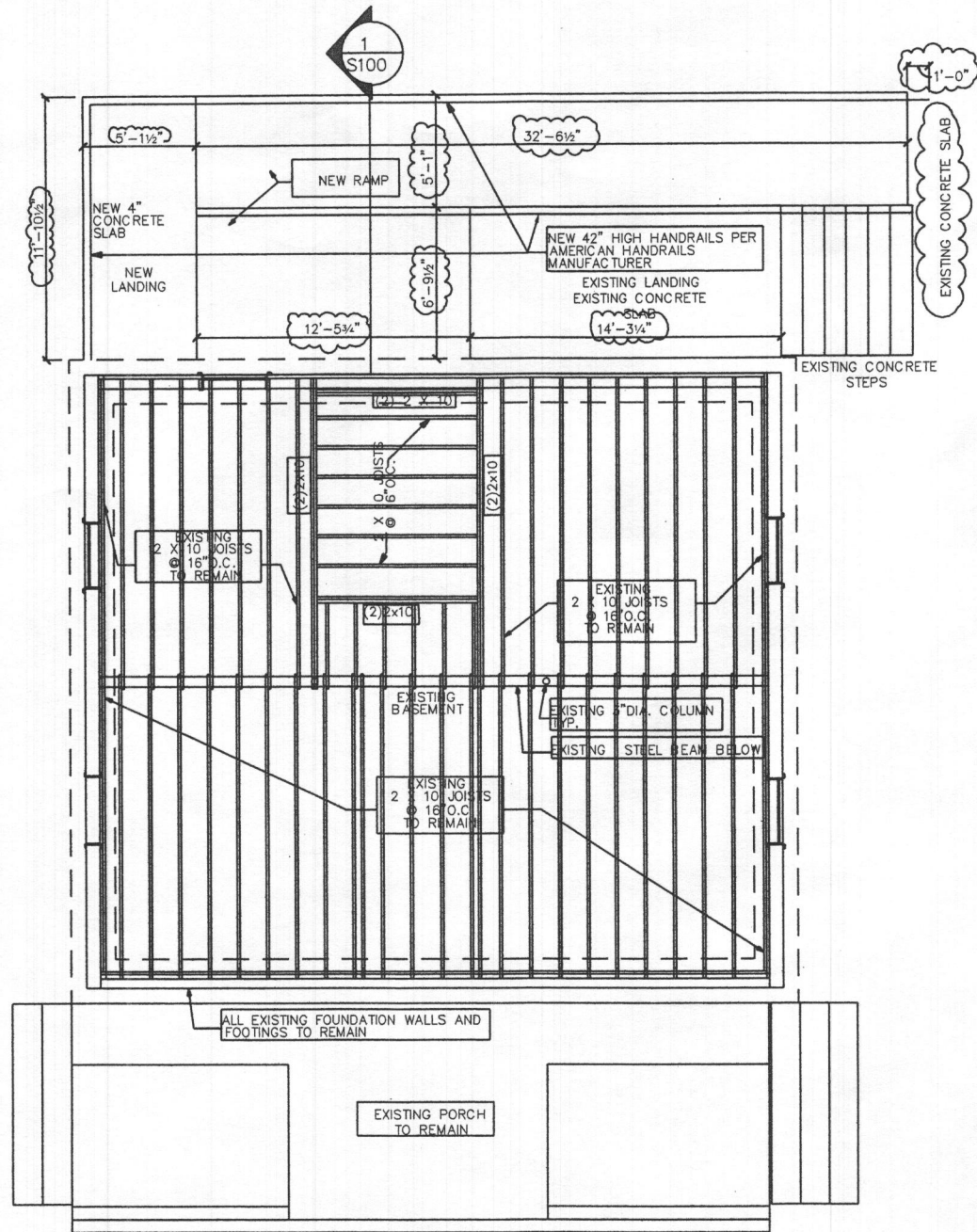
DRAWING SCHEDULE	
A200	1
S100	2
S200	3

RAILING SCHEDULE			
POST	PLATE	SPINDLE	NOTES
1 1/2"x1 1/2"	3"x3"x1/2"	1"x1"	METAL SQUARE

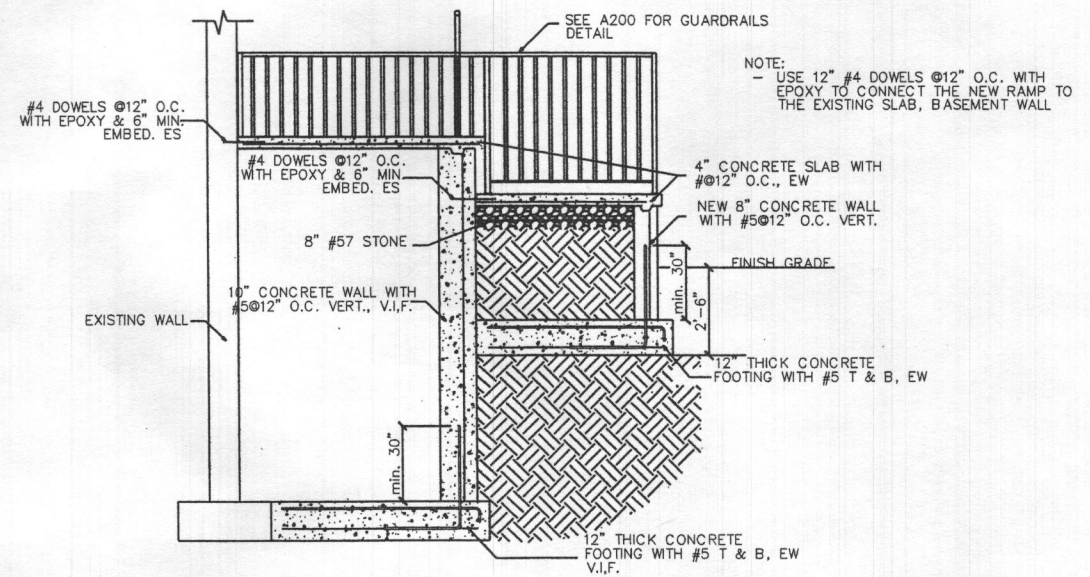
FOR BUILDING PERMIT PURPOSES ONLY VERIFY DIMENSION IN FIELD	 MEMBER AI BD <small>AMERICAN INSTITUTE OF BUILDING DESIGN</small>	 ZN DRAFTING, LLC 2701 Ady Road Forest Hill, MD 21050 info@zndrafting.com	STAMP  Elias Aragaw <small>Elias Aragaw (May 11, 2024 20:42 EDT)</small> 	 SECTION LETTER PAGE NUMBERS	PROJECT NAME: 11001 GUILFORD ROAD, ANNAPOLIS JUNCTION Maryland 20701	SHEET No: 1/3
					DRAWN BY: ZN DRAFTING, LLC SCALE: 1/8" = 1'-0" DATE: 5/9/2024	SHEET Name: A200 MAY 13 2024 LICENSES & PERMITS DIVISION

RECEIVED

MAY 13 2024
LICENSES & PERMITS DIVISION



FIRST FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"



1 RAMP WALL AND FOOTING DETAIL
S100 SCALE: N.T.S.

FOR BUILDING PERMIT PURPOSES ONLY

VERIFY DIMENSION IN FIELD



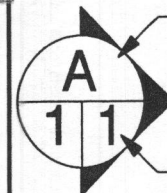
ZN DRAFTING, LLC
2701 Ady Road
Forest Hill, MD
21050
info@zndrafting.com

STAMP



Elias Aragaw
Elias Aragaw (May 11, 2024 20:42 EDT)

Elias Aragaw



SECTION LETTER

PAGE NUMBERS

PROJECT NAME:

11001 GUILFORD ROAD, ANNAPOLIS JUNCTION
Maryland 20701

SHEET No:

2/3 RECEIVED

MAY 13 2024

DRAWN BY: ZN DRAFTING, LLC

SHEET Name:

LICENSES & PERMITS
DIVISION
S100

SCALE: 1/8" = 1'-0"

DATE: 5/9/2024



FLOOR JOIST & RAMP SECTION VIEW

SCALE: 1/8" = 1'-0"

FOR BUILDING PERMIT PURPOSES ONLY

VERIFY DIMENSION IN FIELD

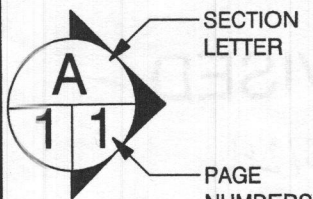


ZN DRAFTING, LLC
 2701 Ady Road
 Forest Hill, MD
 21050
 info@zndrafting.com

STAMP



Elias Aragaw
 Digitally signed by Elias Aragaw
 Date: 2024.04.08 06:59:47 -04'00'



SECTION LETTER

PAGE NUMBERS

PROJECT NAME:

11001 GUILFORD ROAD, ANNAPOLIS JUNCTION
 Maryland 20701

SHEET No:

3/3

DRAWN BY: ZN DRAFTING, LLC

SHEET Name:

SCALE: 1/8" = 1'-0"

S200

DATE: 4/2/2024

RECEIVED

MAY 13 2024

LICENSES & PERMITS
DIVISION

11001 Guilford Road combined revised per county comments 5.8.24S

Final Audit Report

2024-05-12

Created:	2024-05-12
By:	Elias Aragaw (elias.aragaw@hayatbrown.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAFAw3l_l7iiy_MOHQoE0Ka7YIUrvXS18K

"11001 Guilford Road combined revised per county comments 5.8.24S" History

📄 Document created by Elias Aragaw (elias.aragaw@hayatbrown.com)
2024-05-12 - 0:40:38 AM GMT

✉️ Document emailed to Elias Aragaw (elaaes@gmail.com) for signature
2024-05-12 - 0:40:42 AM GMT

📄 Email viewed by Elias Aragaw (elaaes@gmail.com)
2024-05-12 - 0:41:19 AM GMT

✍️ Document e-signed by Elias Aragaw (elaaes@gmail.com)
Signature Date: 2024-05-12 - 0:42:07 AM GMT - Time Source: server

✔️ Agreement completed.
2024-05-12 - 0:42:07 AM GMT



Adobe Acrobat Sign

Name of Requestor: Novie Siegars
Street Address: 2701 Ady Rd
City, State, Zip: FOREST HILL MD 21050
Date: 4/10/2024

Amendment, Permit # B 21000847

Ms. Debbie Whalen
Division of Plan Review
Department of Inspections, Licenses and Permits
Howard County Government
3430 Court House Dr
Ellicott City, MD 21043

Dear Ms. Whalen:

I am requesting to amend Permit # B 21000847 at

11001 GUILFORD RD ANNAPOLIS JUNCTION MD 20701 to

(Site Address)

WOOD RAMP CHANGES TO CONCRETE RAMP
1ST FLOOR FRAMING TO CLOSE STAIR OPENING

Enclosed:

Fee: \$200

Plot Plans

Sets of Construction Drawings

Other: _____

If there is anything we can do to assist you, please let me know.

Sincerely,

DILP 2024 APR 10 AM 11:2

Name: NOVIE SIEGARS

Title: PRESIDENT

Phone and/or Email: 410-948-0410 info@zndrafting.com

Hatfield's Equipment and Dedication Services, Inc.

P.O. Box 519 • Annapolis Junction, MD 20701-0519
Office: 301-490-4289 / 888-490-4289 • Fax: 301-490-5794

Howard County Health Department
8930 Stanford Blvd
Columbia, MD 21045

5/17/2024

Re: Septic demolition
Location: 11001 Guilford Road Annapolis Junction MD 20701
Owner: Custodio Neives
Neives Enterprises LLC
512 Stone House Lane
Silver Spring, MD 20905

Hatfield's was called to verify a septic demo at the above lot. We had talked to the previous owner who showed us on a map where the previous septic tank was pumped from and abandoned at the time of the sewer installation. The property is now on public sewer. There was an old toilet flange in the rear of the existing building. We followed the pipe to the location mapped by the previous owner and the pipe ended with visible soil in the pipe at the same location of the tank.

Regards,

Ken Hatfield

ZN DRAFTING, LLC
BUILDING DESIGN & ENGINEERING

2701 Ady Road
Forest Hill, MD 21050
Email: info@zndrafting.com
Phone: 855-914-4999



Address: 11001 Guilford Rd
Annapolis Junction MD 20701

NARRATIVE LETTER

Tuesday, April 2, 2024

This is a permit revision or Amendment to Building Permit#B21000847
approved Drawings:

A200-CONCRETE RAMP ELEVATION
S100-1ST FLOOR FRAMING PLAN & DETAIL
S200-JOIST & RAMP SECTION VIEW

Signed By:

Elias K. Aragaw
Professional Engineer

Elias
Aragaw

Digitally signed
by Elias Aragaw
Date: 2024.04.08
06:53:06 -04'00'



ZN DRAFTING, LLC

BUILDING DESIGN & ENGINEERING

2701 Ady Road
Forest Hill, MD 21050
Email: info@zndrafting.com
Phone: 855-914-4999

Project Address: 11001 Guilfred Rd, Annapolis Junction, MD 20701

Wednesday, March 27, 2024

Dear Sir/Madam

RE: Structural Assessment for first floor framing and ramp construction at 11001 Guilfred Rd, Annapolis Junction, MD 20701

Dear Sir/Madam

We have analyzed the first floor framing to close stair opening to the basement and construction of ramp at 13919 Baltimore Ave, Laurel, MD 20707, and conducted a structural assessment to determine the feasibility of the construction changes. The purpose of this letter is to communicate our findings and conclusions based on the information provided by the client.

Taking into consideration a reasonable degree of engineering certainty and probability and the results of the assessment, it appeared that the structural integrity of the first floor framing and ramp construction will be maintained after completion of the construction.

It is crucial to note that our assessment was conducted in accordance with industry standards and best practices. If you have any further questions or if additional information is required, please contact us at info@zndrafting.com, 855-914-4999.

Sincerely,

Elias Aragaw, PE

Professional Engineer

Attachment:

Calculations for floor joist and ramp wall



Elias Aragaw
Elias Aragaw (Mar 27, 2024 21:21 EDT)

ZN DRAFTING, LLC

BUILDING DESIGN & ENGINEERING

2701 Ady Road
Forest Hill, MD 21050
Email: info@zndrafting.com
Phone: 855-914-4999



Project Address: 11001 Guilfred Rd, Annapolis Junction, MD 20701

Wednesday, March 27, 2024

Dear Sir/Madam

RE: Structural Assessment for first floor framing and ramp construction at 11001 Guilfred Rd, Annapolis Junction, MD 20701

Dear Sir/Madam

We have analyzed the first floor framing to close stair opening to the baseemnt and constuction of the ADA ramp at 13919 Baltimore Ave, Laurel, MD 20707, and conducted a structural assessment to determine the feasibility of the constuction changes. The purpose of this letter is to communicate our findings and conclusions based on the information provided by the client.

Taking into consideration a reasonable degree of engineering certainty and probability and the risk to building, it appeared that the structural integrity of the first floor framing and ramp constuction will be remain sound after completion of the constuction.

It is crucial to note that our assessment was conducted in accordance with industry standards and best practices. If you have any further questions or if additional information is required, please feel free to contact us at info@zndrafting.com, 855-914-4999.

Sincerely,

Elias Aragaw, PE

Professional Engineer

Attachment:

- Calculations for floor joist and ramp wall



Elias Aragaw
Elias Aragaw (Mar 27, 2024 21:21 EDT)

Wood Beam

Project File: 11001.ec6

LIC#: KW-06020315, Build:20.23.12.07

(c) ENERCALC INC 1983-2023

DESCRIPTION: 11001

CODE REFERENCES

Calculations per NDS 2018, IBC 2018, CBC 2019, ASCE 7-16
 Load Combination Set : IBC 2021

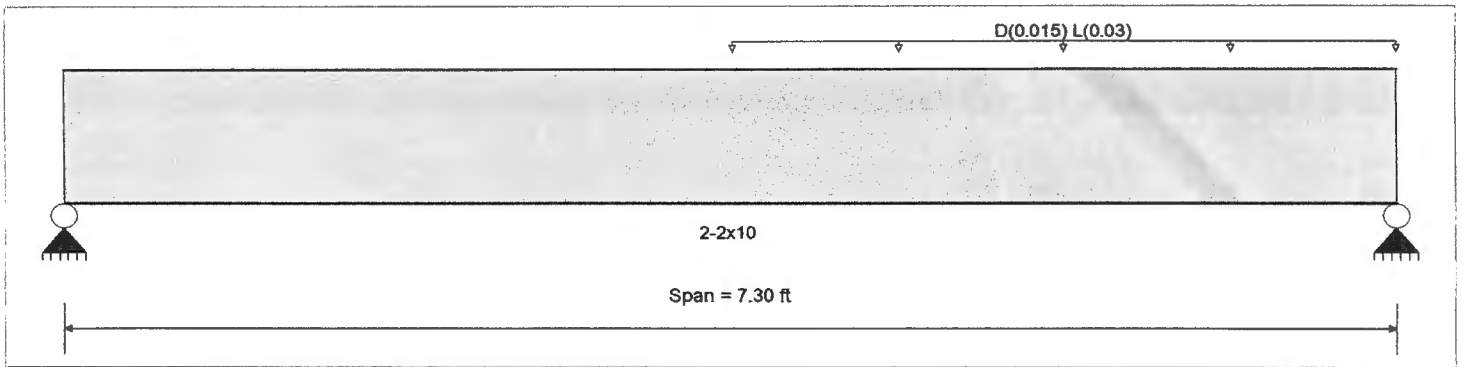
Material Properties

Analysis Method : Allowable Stress Design
 Load Combination : IBC 2021

Wood Species : Douglas Fir-Larch (North)
 Wood Grade : No. 1/No. 2

Beam Bracing : Beam is Fully Braced against lateral-torsional buckling

Fb +	850.0 psi	<i>E : Modulus of Elasticity</i>	
Fb -	850.0 psi	Ebend- xx	1,600.0ksi
Fc - Prll	1,400.0 psi	Eminbend - xx	580.0ksi
Fc - Perp	625.0 psi		
Fv	180.0 psi		
Ft	500.0 psi	Density	30.590pcf



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added

Load for Span Number 1

Uniform Load : D = 0.0150, L = 0.030 k/ft, Extent = 3.670 -->> 7.30 ft, Tributary Width = 1.0 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.050	1	Maximum Shear Stress Ratio	=	0.027	: 1
Section used for this span		2-2x10		Section used for this span		2-2x10	
fb: Actual	=	46.95psi		fv: Actual	=	4.82 psi	
F'b	=	935.00psi		F'v	=	180.00 psi	
Load Combination		+D+L		Load Combination		+D+L	
Location of maximum on span	=	4.582ft		Location of maximum on span	=	6.554 ft	
Span # where maximum occurs	=	Span # 1		Span # where maximum occurs	=	Span # 1	
Maximum Deflection							
Max Downward Transient Deflection		0.003 in	Ratio = 28805 >= 360	Span: 1 : L Only			
Max Upward Transient Deflection		0 in	Ratio = 0 < 360	n/a			
Max Downward Total Deflection		0.005 in	Ratio = 19203 >= 180	Span: 1 : +D+L			
Max Upward Total Deflection		0 in	Ratio = 0 < 180	n/a			

Maximum Forces & Stresses for Load Combinations

Load Combination Segment Length	Span #	Max Stress Ratios										Moment Values			Shear Values		
		M	V	CD	CM	C _t	CLx	C _F	C _{fu}	C _i	C _r	M	fb	F'b	V	fv	F'v
D Only Length = 7.30 ft	1	0.019	0.010	0.90	1.00	1.00	1.00	1.100	1.00	1.00	1.00	0.06	15.6	841.5	0.03	1.6	162.0
+D+L Length = 7.30 ft	1	0.050	0.027	1.00	1.00	1.00	1.00	1.100	1.00	1.00	1.00	0.17	46.9	935.0	0.09	4.8	180.0
+D+0.750L Length = 7.30 ft	1	0.033	0.018	1.25	1.00	1.00	1.00	1.100	1.00	1.00	1.00	0.14	39.1	1,168.8	0.07	4.0	225.0
+0.60D Length = 7.30 ft	1	0.006	0.003	1.60	1.00	1.00	1.00	1.100	1.00	1.00	1.00	0.03	9.4	1,496.0	0.02	1.0	288.0

Printed: 27 MAR 2024, 8:47PM

Wood Beam

Project File: 11001.ec6

LIC#: KW-06020315, Build:20.23.12.07

(c) ENERCALC INC 1983-2023

DESCRIPTION: 11001

Overall Maximum Deflections

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
+D+L	1	0.0046	3.970		0.0000	0.000

Maximum Deflections for Load Combinations

Load Combination	Span	Max. Downward Defl	Location in Span	Max. Upward Defl	Location in Span
D Only	1	0.0015 in	3.970 ft	0.0000 in	0.000 ft
+D+L	1	0.0046 in	3.970 ft	0.0000 in	0.000 ft
+D+0.750L	1	0.0038 in	3.970 ft	0.0000 in	0.000 ft
+0.60D	1	0.0009 in	3.970 ft	0.0000 in	0.000 ft
L Only	1	0.0030 in	3.970 ft	0.0000 in	0.000 ft

Vertical Reactions

Support notation : Far left is #1

Values in KIPS

Load Combination	Support 1	Support 2
Max Upward from all Load Conditions	0.041	0.123
Max Upward from Load Combinations	0.041	0.123
Max Upward from Load Cases	0.027	0.082
D Only	0.014	0.041
+D+L	0.041	0.123
+D+0.750L	0.034	0.102
+0.60D	0.008	0.025
L Only	0.027	0.082

Cantilevered Retaining Wall

Project File: 11001.ec6

LIC# : KW-06020315, Build:20.23.12.07

(c) ENERCALC INC 1983-2023

DESCRIPTION: 11001 Guilford

Code Reference.

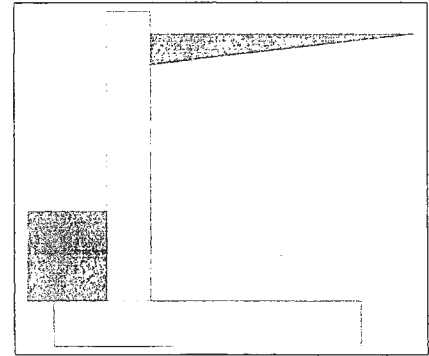
Calculations per IBC 2018 1807.3, CBC 2019, ASCE 7-16

Criteria

Retained Height	=	5.90 ft
Wall height above soil	=	0.50 ft
Slope Behind Wall	=	0.00
Height of Soil over Toe	=	24.00 in
Water table above bottom of footing	=	0.0 ft

Soil Data

Allow Soil Bearing	=	1,500.0 psf
Equivalent Fluid Pressure Method		
Active Heel Pressure	=	35.0 psf/ft
Passive Pressure	=	250.0 psf/ft
Soil Density, Heel	=	110.00 pcf
Soil Density, Toe	=	110.00 pcf
Footing Soil Friction	=	0.400
Soil height to ignore for passive pressure	=	12.00 in



Surcharge Loads

Surcharge Over Heel	=	0.0 psf
Used To Resist Sliding & Overturning		
Surcharge Over Toe	=	0.0
Used for Sliding & Overturning		

Axial Load Applied to Stem

Axial Dead Load	=	175.0 lbs
Axial Live Load	=	50.0 lbs
Axial Load Eccentricity	=	0.0 in

Lateral Load Applied to Stem

Lateral Load	=	0.0 #/ft
...Height to Top	=	0.00 ft
...Height to Bottom	=	0.00 ft
Load Type	=	Wind (W) (Service Level)
Wind on Exposed Stem	=	0.0 psf (Strength Level)

Adjacent Footing Load

Adjacent Footing Load	=	0.0 lbs
Footing Width	=	0.00 ft
Eccentricity	=	0.00 in
Wall to Ftg CL Dist	=	0.00 ft
Footing Type	=	Spread Footing
Base Above/Below Soil at Back of Wall	=	0.0 ft
Poisson's Ratio	=	0.300

Cantilevered Retaining Wall

Project File: 11001.ec6

LIC# : KW-06020315, Build:20.23.12.07

(c) ENERCALC INC 1983-2023

DESCRIPTION: 11001 Guilford

Design Summary

Wall Stability Ratios			
Overtuning	=	7.22	OK
Sliding	=	3.43	OK
Global Stability	=	4.01	
Total Bearing Load	=	4,689 lbs	
...resultant ecc.	=	4.11 in	
Eccentricity within middle third			
Soil Pressure @ Toe	=	1,095 psf	OK
Soil Pressure @ Heel	=	522 psf	OK
Allowable	=	1,500 psf	
Soil Pressure Less Than Allowable			
ACI Factored @ Toe	=	1,533 psf	
ACI Factored @ Heel	=	731 psf	
Footing Shear @ Toe	=	2.8 psi	OK
Footing Shear @ Heel	=	1.6 psi	OK
Allowable	=	82.2 psi	

Sliding Calcs

Lateral Sliding Force	=	833.2 lbs	
less 100% Passive Force	= -	1,000.0 lbs	
less 100% Friction Force	= -	1,855.7 lbs	
Added Force Req'd	=	0.0 lbs	OK
....for 1.5 Stability	=	0.0 lbs	OK

Vertical component of active lateral soil pressure IS NOT considered in the calculation of soil bearing pressures.

Load Factors

Building Code	
Dead Load	1.200
Live Load	1.600
Earth, H	1.600
Wind, W	1.600
Seismic, E	1.000

Stem Construction

Design Height Above Ftg	ft =	Stem OK 0.00		
Wall Material Above "Ht"	=	Concrete		
Design Method	=	SD	SD	SD
Thickness	=	10.00		
Rebar Size	=	# 5		
Rebar Spacing	=	12.00		
Rebar Placed at	=	Center		

Bottom

Design Data	
fb/FB + fa/Fa	= 0.292

Total Force @ Section

Service Level	lbs =	
Strength Level	lbs =	974.7

Moment....Actual

Service Level	ft-# =	
Strength Level	ft-# =	1,916.9

Moment....Allowable	=	6,549.8
---------------------	---	---------

Shear.....Actual

Service Level	psi =	
Strength Level	psi =	16.2

Shear.....Allowable	psi =	82.2
---------------------	-------	------

Anet (Masonry)

Wall Weight	psf =	125.0
-------------	-------	-------

Rebar Depth 'd'	in =	5.00
-----------------	------	------

Masonry Data

f'm	psi =	
Fs	psi =	
Solid Grouting	=	
Modular Ratio 'n'	=	
Equiv. Solid Thick.	=	
Masonry Block Type	=	
Masonry Design Method	=	ASD

Concrete Data

f'c	psi =	3,000.0
Fy	psi =	60,000.0

Cantilevered Retaining Wall

Project File: 11001.ec6

LIC#: KW-06020315, Build:20.23.12.07

(c) ENERCALC INC 1983-2023

DESCRIPTION: 11001 Guilford

Concrete Stem Rebar Area Details

Bottom Stem	<u>Vertical Reinforcing</u>	<u>Horizontal Reinforcing</u>	
As (based on applied moment) :	0.091 in2/ft	Min Stem T&S Reinf Area 1.536 in2	
(4/3) * As :	0.1213 in2/ft	Min Stem T&S Reinf Area per ft of stem Height : 0.240 in2/ft	
200bd/fy : 200(12)(5)/60000 :	0.2 in2/ft	Horizontal Reinforcing Options :	
0.0018bh : 0.0018(12)(10) :	0.216 in2/ft	=====	
Required Area :	0.216 in2/ft	<u>One layer of :</u>	<u>Two layers of :</u>
Provided Area :	0.31 in2/ft	#4@ 10.00 in	#4@ 20.00 in
Maximum Area :	0.8128 in2/ft	#5@ 15.50 in	#5@ 31.00 in
		#6@ 22.00 in	#6@ 44.00 in

Footing Data

Toe Width	=	1.00 ft
Heel Width	=	4.80
Total Footing Width	=	5.80
Footing Thickness	=	12.00 in
Key Width	=	0.00 in
Key Depth	=	0.00 in
Key Distance from Toe	=	0.00 ft
f _c =	3,000 psi	F _y = 60,000 psi
Footing Concrete Density	=	150.00 pcf
Min. As %	=	0.0018
Cover @ Top	2.00	@ Btm.= 3.00 in

Footing Design Results

		<u>Toe</u>	<u>Heel</u>	
Factored Pressure	=	1,533	731 psf	
Mu' : Upward	=	743	7,190 ft-#	
Mu' : Downward	=	222	7,543 ft-#	
Mu: Design	=	521 OK	353 ft-#	OK
phiMn	=	11,695	11,088 ft-#	
Actual 1-Way Shear	=	2.80	1.62 psi	
Allow 1-Way Shear	=	82.16	82.16 psi	
Toe Reinforcing	=	# 5 @ 12.00 in		
Heel Reinforcing	=	# 4 @ 9.25 in		
Key Reinforcing	=	None Spec'd		
Footing Torsion, Tu	=		0.00 ft-lbs	
Footing Allow. Torsion, phi Tu	=		0.00 ft-lbs	

If torsion exceeds allowable, provide supplemental design for footing torsion.

Other Acceptable Sizes & Spacings

Toe: #4@ 9.25 in, #5@ 14.35 in, #6@ 20.37 in, #7@ 27.77 in, #8@ 36.57 in, #9@ 46.29 in, #10@ 58.79 in

Heel: #4@ 9.25 in, #5@ 14.35 in, #6@ 20.37 in, #7@ 27.77 in, #8@ 36.57 in, #9@ 46.29 in, #10@ 58.79 in

Key: No key defined

Min footing T&S reinf Area	1.50	in2
Min footing T&S reinf Area per foot	0.26	in2 /ft

If one layer of horizontal bars:

#4@ 9.26 in
 #5@ 14.35 in
 #6@ 20.37 in

If two layers of horizontal bars:

#4@ 18.52 in
 #5@ 28.70 in
 #6@ 40.74 in

Cantilevered Retaining Wall

Project File: 11001.ec6

LIC#: KW-06020315, Build:20.23.12.07

(c) ENERCALC INC 1983-2023

DESCRIPTION: 11001 Guilford

Summary of Overturning & Resisting Forces & Moments

ItemOVERTURNING.....		RESISTING.....			
	Force lbs	Distance ft	Moment ft-#	Force lbs	Distance ft	Moment ft-#	
HL Act Pres (ab water tbl)	833.2	2.30	1,916.3	Soil Over HL (ab. water tbl)	2,574.4	3.82	9,825.5
HL Act Pres (be water tbl)				Soil Over HL (bel. water tbl)		3.82	9,825.5
Hydrostatic Force				Water Table			
Buoyant Force =				Sloped Soil Over Heel =			
Surcharge over Heel =				Surcharge Over Heel =			
Surcharge Over Toe =				Adjacent Footing Load =			
Adjacent Footing Load =				Axial Dead Load on Stem =	175.0	1.42	247.9
Added Lateral Load =				* Axial Live Load on Stem =	50.0	1.42	70.8
Load @ Stem Above Soil =				Soil Over Toe =	220.0	0.50	110.0
				Surcharge Over Toe =			
				Stem Weight(s) =	800.0	1.42	1,133.3
				Earth @ Stem Transitions =			
Total	= 833.2	O.T.M. =	1,916.3	Footing Weight =	870.0	2.90	2,523.0
				Key Weight =			
Resisting/Overturning Ratio		= 7.22		Vert. Component =			
Vertical Loads used for Soil Pressure =		4,689.4 lbs		Total =	4,639.4 lbs	R.M. =	13,839.7

* Axial live load NOT included in total displayed, or used for overturning resistance, but is included for soil pressure calculation.

Vertical component of active lateral soil pressure IS NOT considered in the calculation of Sliding Resistance.

Vertical component of active lateral soil pressure IS NOT considered in the calculation of Overturning Resistance.

Tilt

Horizontal Deflection at Top of Wall due to settlement of soil

(Deflection due to wall bending not considered)

Soil Spring Reaction Modulus	250.0	pci
Horizontal Defl @ Top of Wall (approximate only)	0.034	in

Cantilevered Retaining Wall

Project File: 11001.ec6

LIC# : KW-06020315, Build:20.23.12.07

(c) ENERCALC INC 1983-2023

DESCRIPTION: 11001 Guilford

Rebar Lap & Embedment Lengths Information

Stem Design Segment: Bottom

Stem Design Height: 0.00 ft above top of footing

Lap Splice length for #5 bar specified in this stem design segment (25.4.2.3a) = 21.36 in

Development length for #5 bar specified in this stem design segment = 16.43 in

Hooked embedment length into footing for #5 bar specified in this stem design segment = 9.59 in

As Provided = 0.3100 in²/ft

As Required = 0.2160 in²/ft

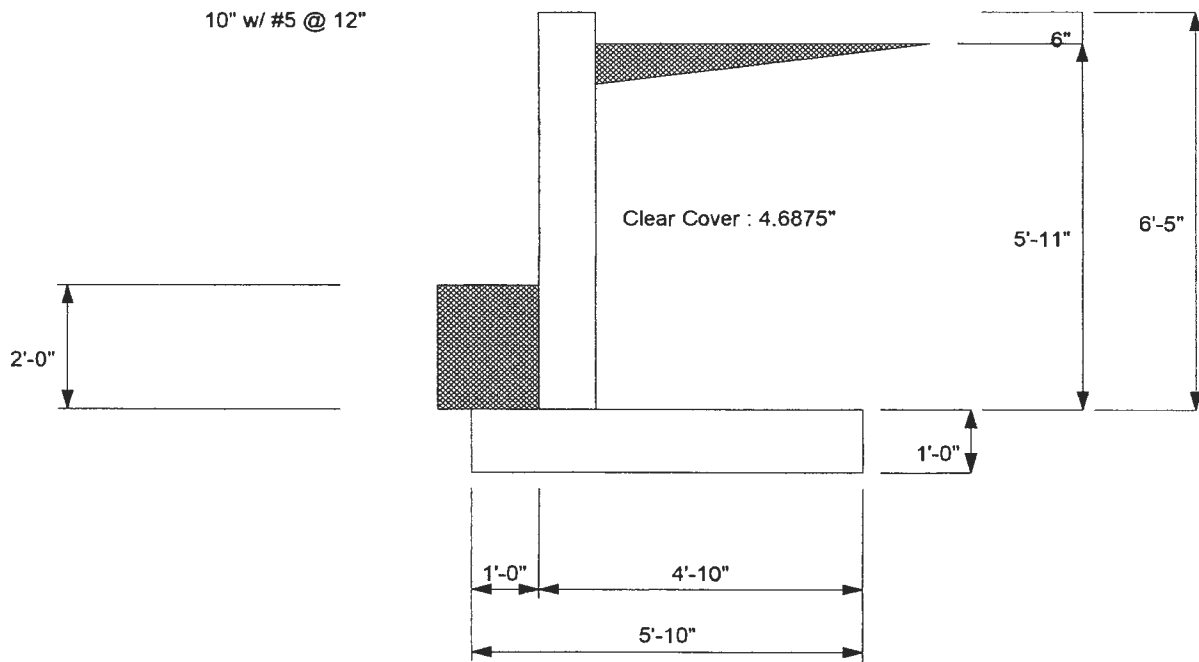
Cantilevered Retaining Wall

Project File: 11001.ec6

LIC#: KW-06020315, Build:20.23.12.07

(c) ENERCALC INC 1983-2023

DESCRIPTION: 11001 Guilford



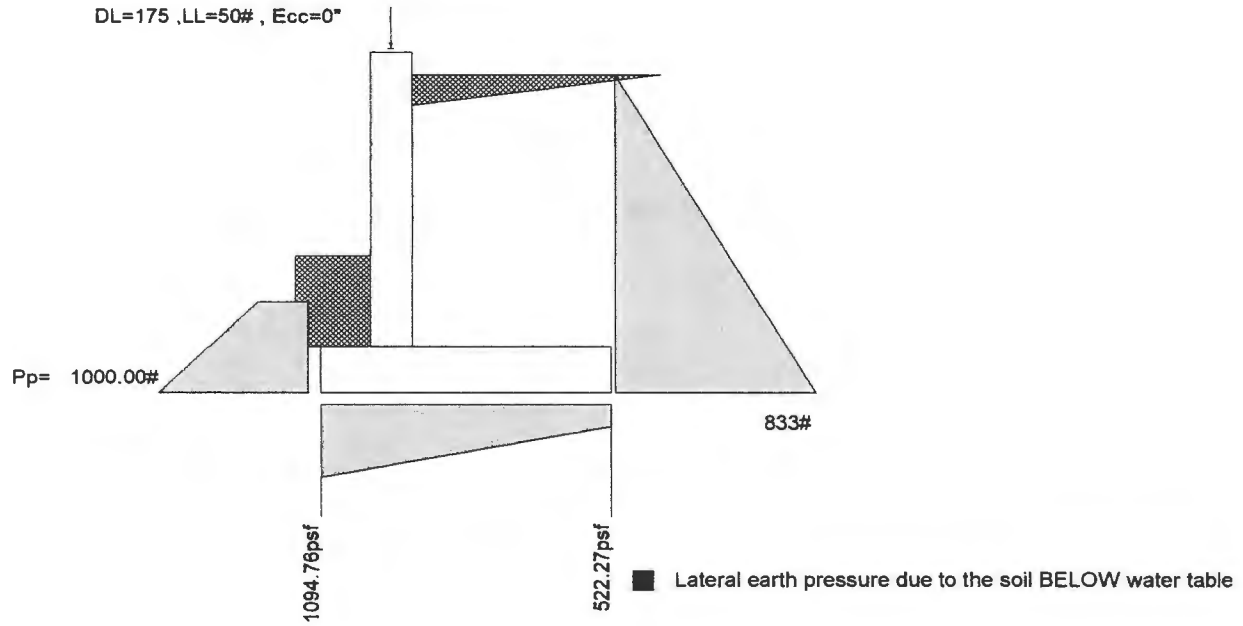
Cantilevered Retaining Wall

Project File: 11001.ec6

LIC#: KW-06020315, Build:20.23.12.07

(c) ENERCALC INC 1983-2023

DESCRIPTION: 11001 Guilford





FLOOR JOIST & RAMP SECTION VIEW

SCALE: 1/8" = 1'-0"

FOR BUILDING PERMIT PURPOSES ONLY

VERIFY DIMENSION IN FIELD



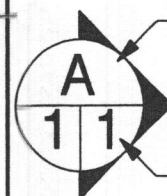
ZN DRAFTING, LLC
 2701 Ady Road
 Forest Hill, MD
 21050
 info@zndrafting.com

STAMP



Elias Aragaw
 Elias Aragaw (May 11, 2024 20:42 EDT)

Elias Aragaw



SECTION LETTER

PAGE NUMBERS

PROJECT NAME:

11001 GUILFORD ROAD, ANNAPOLIS JUNCTION
 Maryland 20701

SHEET No:

RECEIVED
 3/3

MAY 13 2024

DRAWN BY: ZN DRAFTING, LLC

SHEET Name:

SCALE: 1/8" = 1'-0"

LICENSES & PERMITS
 S200 DIVISION

DATE: 5/9/2024



RAMP SLOPE:
1 INCHES : 12 INCHES

RAMP ELEVATION
SCALE: 1/8" = 1'-0"

DRAWING SCHEDULE	
A200	1
S100	2
S200	3

RAILING SCHEDULE			
POST	PLATE	SPINDLE	NOTES
1 1/2" x 1 1/2"	3" x 3" x 1/2"	1" x 1"	METAL SQUARE

FOR BUILDING PERMIT PURPOSES ONLY
VERIFY DIMENSION IN FIELD

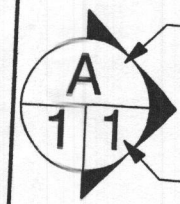


ZN DRAFTING, LLC
2701 Ady Road
Forest Hill, MD
21050
info@zndrafting.com

STAMP



Elias Aragaw
Digitally signed by Elias Aragaw
Date: 2024.04.08 06:58:00 -04'00'



SECTION LETTER
PAGE NUMBERS

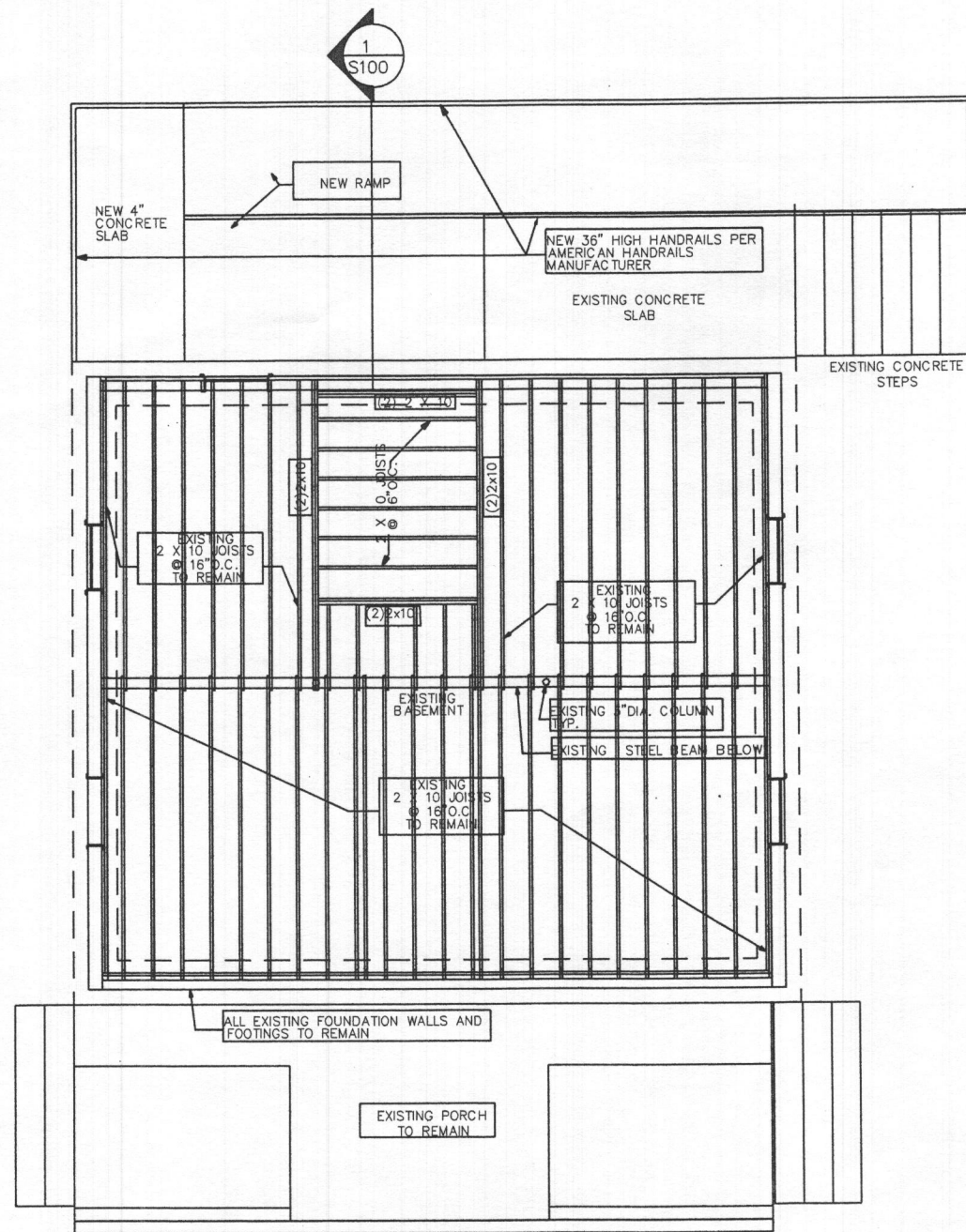
PROJECT NAME:
11001 GUILFORD ROAD, ANNAPOLIS JUNCTION
Maryland 20701

SHEET No:
1/3

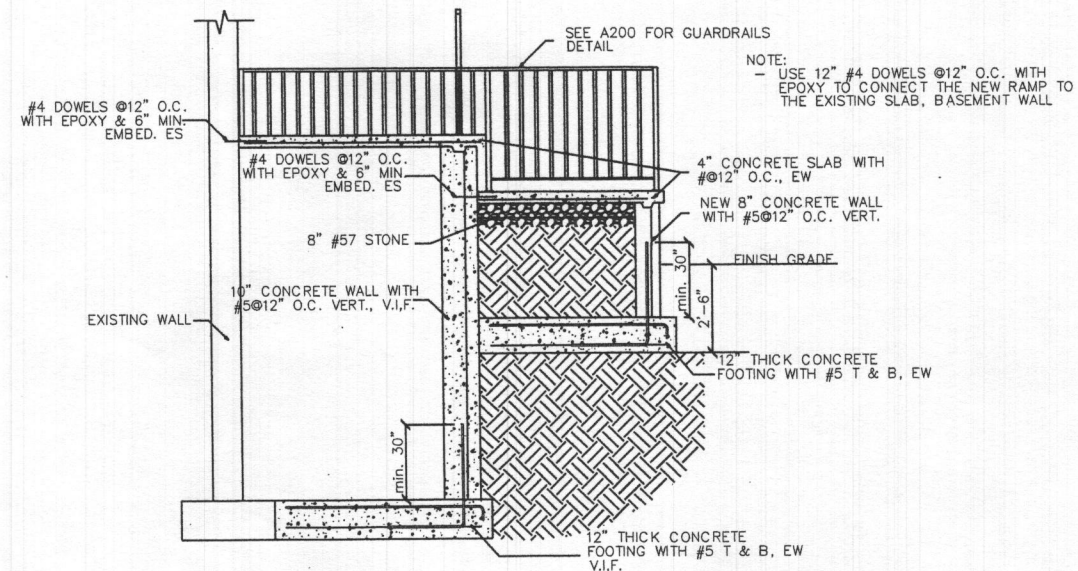
DRAWN BY: ZN DRAFTING, LLC
SCALE: 1/8" = 1'-0"
DATE: 4/2/2024

SHEET Name:

A200



FIRST FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"



1 RAMP WALL AND FOOTING DETAIL
S100 SCALE: N.T.S.

FOR BUILDING PERMIT PURPOSES ONLY

VERIFY DIMENSION IN FIELD



ZN DRAFTING, LLC
2701 Ady Road
Forest Hill, MD
21050
info@zndrafting.com

STAMP



Elias Aragaw
Digitally signed by Elias Aragaw
Date: 2024.04.08 06:59:02 -04'00'



SECTION LETTER

PAGE NUMBERS

PROJECT NAME:

11001 GUILFORD ROAD, ANNAPOLIS JUNCTION
Maryland 20701

SHEET No:

2/3

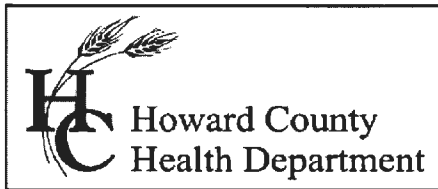
DRAWN BY: ZN DRAFTING, LLC

SHEET Name:

SCALE: 1/8" = 1'-0"

S100

DATE: 4/2/2024



Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H.,

Health Officer

April 22nd, 2011

MEMORANDUM

SENT VIA EMAIL TO CHARLIESBOBCAT@AOL.COM

TO: Charlies Bobcat Service, Inc

FROM: Kevin M. Wolf, R.E.H.S./R.S.
Environmental Sanitarian
Well and Septic Program

RE: 11001 Guilford Road
M. 48, G.14, P. 70 - .9400 AC
(Demolition of existing Structures, rebuild shops and offices)

This is to advise that the Howard County Health Department recommends issuance of the demolition permit for the above referenced property.

According to public utility records, this property is currently connected to public water and sewer and will remain so. If plans to re-build on this parcel, you will need to re-connect to public water and sewer per Howard County code.

If any wells or septic systems are found during site work, you must notify this office immediately.

KMW
Cc: File

9-30-82
7/26/82
7/23/82
After 1:00 P.M.

7/26/82

PERMIT

Approved
7-26-82
C. W. Quinn

P 32009

A Repair

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

ELLICOTT CITY

DISTRICT 6th

DATE 7/1/82

INDEX

C & C Concrete Contractors IS PERMITTED TO INSTALL _____ ALTER ^{mX} _____

ADDRESS _____ PHONE 490-1500

SUBDIVISION _____ ROAD 11000 Annapolis Junction Road LOT _____

PROPERTY OWNER Mr. Morris

ADDRESS 11000 Annapolis Junction Road, Annapolis Junction, Md. 20701 776-6365

SPECIFICATIONS

- SEPTIC TANK CAPACITY _____ GALLONS.
- DRAIN FIELD _____ DEPTH _____ FEET, BOTTOM AREA _____ SQ. FT.
- DEEP TRENCH _____ DEPTH _____ FEET, BOTTOM AREA _____ SQ. FT.
- SEEPAGE PITS _____ ABSORBENT SIDE-WALL AREA _____ SQ. FT.
- INLET PIPE _____ FT. BELOW ORIGINAL GRADE, MAXIMUM DEPTH _____ FT. BELOW ORIGINAL GRADE
- EFFECTIVE DEPTH AT _____ FT. BELOW ORIGINAL GRADE.
- LOCATE DISPOSAL AREA _____ FT. FROM _____ LOT LINE AND _____ FT. FROM _____ LOT LINE AS SEEN WHEN FACING LOT FROM

REPAIR - Call for an appointment when ground is opened up so Sanitarian can recommend the repair system.

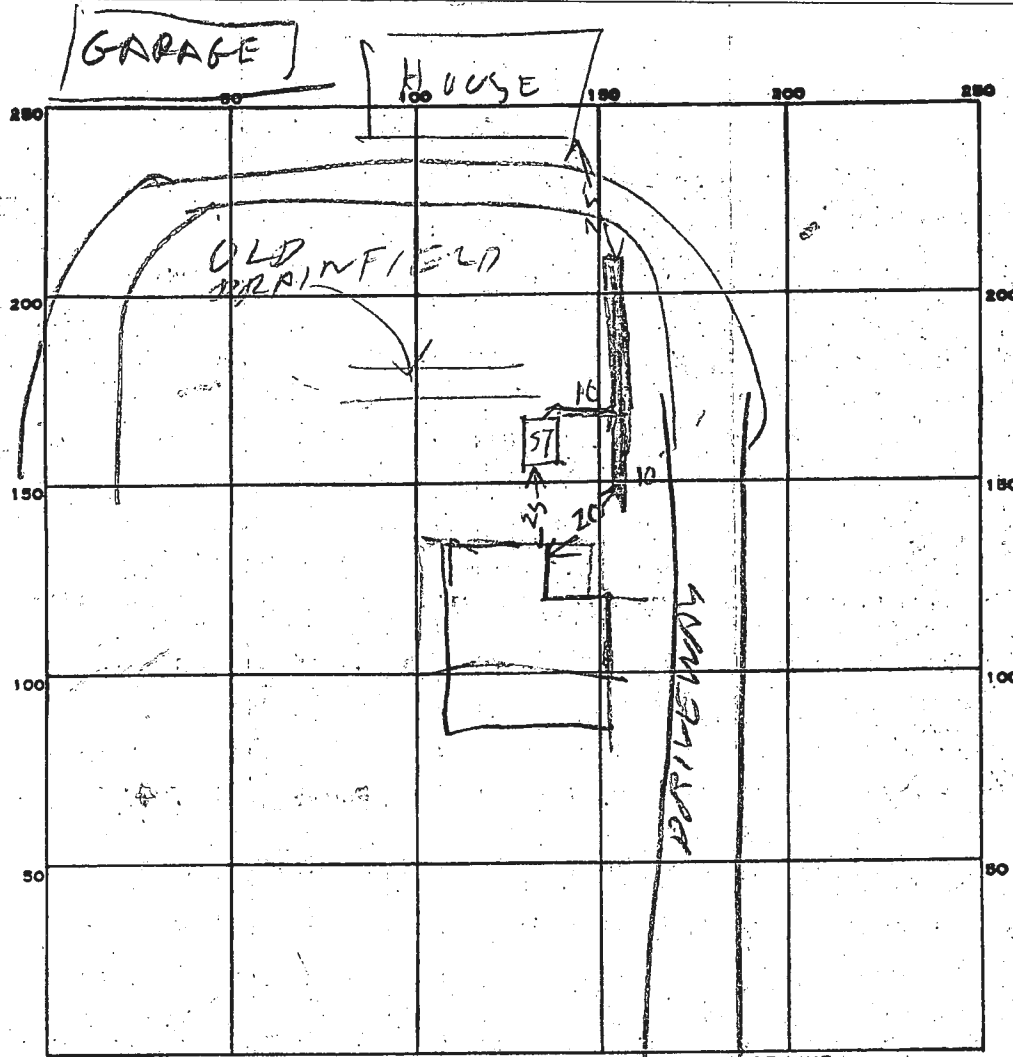
Trench, 50 ft long, 12 ft deep, with 8 to 9 ft of stone

PLANS APPROVED BY Palmer F. Wine DATE 7/1/82

- 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: IF TRENCH IS USED CALL FOR INSPECTION BEFORE PLACING GRAVEL IN TRENCH.
- NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER.
- NOTE: ALL PIPE FROM HOUSE TO DISPOSAL AREA MUST BE CAST IRON.
- PERMIT VOID AFTER THREE YEARS.
- NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA ACCEPTED.

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

P-32009



SOIL PROFILE
OF DITCH

①

0 BROWN CLAY

4 BROWN CLAY SAND

12

45
8
360

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE
ANNAPOLIS JUNCTION RD

PERMIT CARD _____

SEPTIC TANK, LEVEL _____ CLEANOUTS _____

DISTRIBUTION BOX, LEVEL _____

TILE FIELD, DEPTH 12 FT. TRENCH WIDTH 2 FT.

GRAVEL DEPTH 9 IN. TOTAL LENGTH 45 FT.

NUMBER OF TRENCHES 1 TOTAL BOTTOM AREA 405 TOTAL
360 BELOW TOP 4 FT

SEEPAGE PITS, INSIDE DIAMETER _____ FT. DEPTH BELOW INLET _____ FT.

ABSORBENT AREA _____ SQ. FT.

REMARKS 5/12/83 DITCH INLET 4 FT BELOW GRADE
OLD DRAIN FIELD WORKED OVER 12 YEARS
HOME OWNER MEASURED DEPTH
OF DITCH. FINISH ADDING STONE
5/12/83 STONE ADDED OK TO COVER

DATE SYSTEM APPROVED 5/12/83 INSPECTOR Raymond Dodge

APPROVED
5/12/83 P.H.
P 32753

PERMIT

SEWAGE DISPOSAL SYSTEM

REPAIR

MARYLAND STATE DEPARTMENT OF HEALTH*

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
992-2330

5/12/83
P.M.

ELLICOTT CITY
DISTRICT _____

DATE May 11, 1983

INDEX

Jack Fyock

IS PERMITTED TO INSTALL _____ ALTER

ADDRESS 13775 Triadelphia Road, Glenelg, MD 21737

PHONE 988-9270

SUBDIVISION _____

ROAD 11000 Annapolis Junction Rd.

PROPERTY OWNER Morris

ADDRESS 11000 Annapolis Junction Rd, Rt. 32,

Phone: 776-7042

Rt 32 extended

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES _____ NO _____

SEPTIC TANK CAPACITY _____ GALLONS NUMBER OF BEDROOMS _____

REPAIR - CALL FOR INSPECTION WHEN GROUND IS OPENED UP SO SANITARIAN CAN

RECOMMEND REPAIR

5/12/83
DEEP DITCH 12 FT DEEP

2 FT WIDE 8 FT STONE

45 FT LONG INLET 3-4 FT

TOP 4 FT CLAY BIT

PLANS APPROVED BY Palmer F. Wine

DATE May 11, 1983

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: IF TRENCH IS USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH.

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 40 PVC OR ABS.

PERMIT VOID AFTER THREE YEARS.

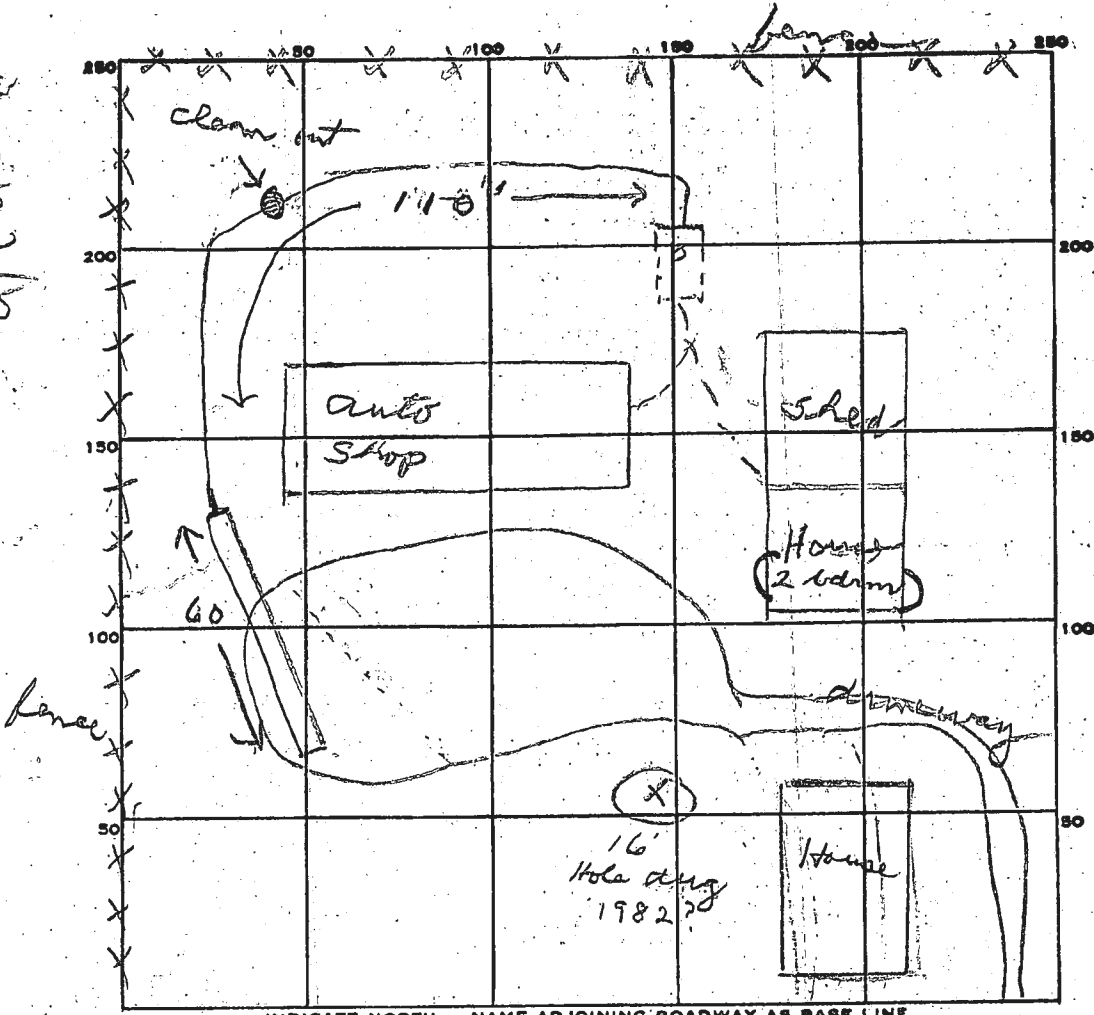
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER, CAST IRON, CONCRETE OR TERRA COTTA, OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

32753



Rt 32

PERMIT CARD _____

SEPTIC TANK, LEVEL _____ CLEANOUTS _____

DISTRIBUTION BOX, LEVEL _____

TILE FIELD, DEPTH 13 FT. TRENCH WIDTH 2 FT.

GRAVEL DEPTH 7 IN. TOTAL LENGTH 60 FT.

NUMBER OF TRENCHES 1 TOTAL BOTTOM AREA 420

SEEPAGE PITS, INSIDE DIAMETER _____ FT. DEPTH BELOW INLET _____ FT.

ABSORBENT AREA 420 SQ. FT.

REMARKS 11/4/83 clay to 5 ft. In order to get falls inlets
will be 5 to 6' deep.

11/4/83 OK to add atm. sup trench 18

11/4/83 OK to close all work 18

DATE SYSTEM APPROVED 11/4/83 INSPECTOR Stanger

Approved 11/4/83

Stayer

P 33281
A Repair

11/4/83
a.m. please
around lunch time

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
992-2330

ELLICOTT CITY
DISTRICT 6th
DATE 11/3/83

INDEX

Jack Fyock _____ IS PERMITTED TO INSTALL _____ ALTER X

ADDRESS 13775 Triadelphia Road, Glenelg, Md. 21737 PHONE 988-9270

SUBDIVISION _____ ROAD ~~11000 Annapolis Junction Rd.~~ (Route 32) 11001 GUILFORD RD

PROPERTY OWNER Gail Morris

ADDRESS ~~11000 Annapolis Junction Road, Annapolis Junction, Md.~~ 11001 GUILFORD ROAD

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES _____ NO _____

SEPTIC TANK CAPACITY _____ GALLONS NUMBER OF BEDROOMS _____

REPAIR - Call for an appointment when ground is opened up and Sanitarian will
11/4/83 recommend the repair system.

16 ft was dug here in (May) 1983. Clay to 5-6 ft
then sand. Very limited area for trench.
Trench to be 13 ft deep, at least 60 ft long.
Inlet around 6 ft below grade with 7 ft of slope.

PLANS APPROVED BY Frank A. Skinner DATE 11/4/83

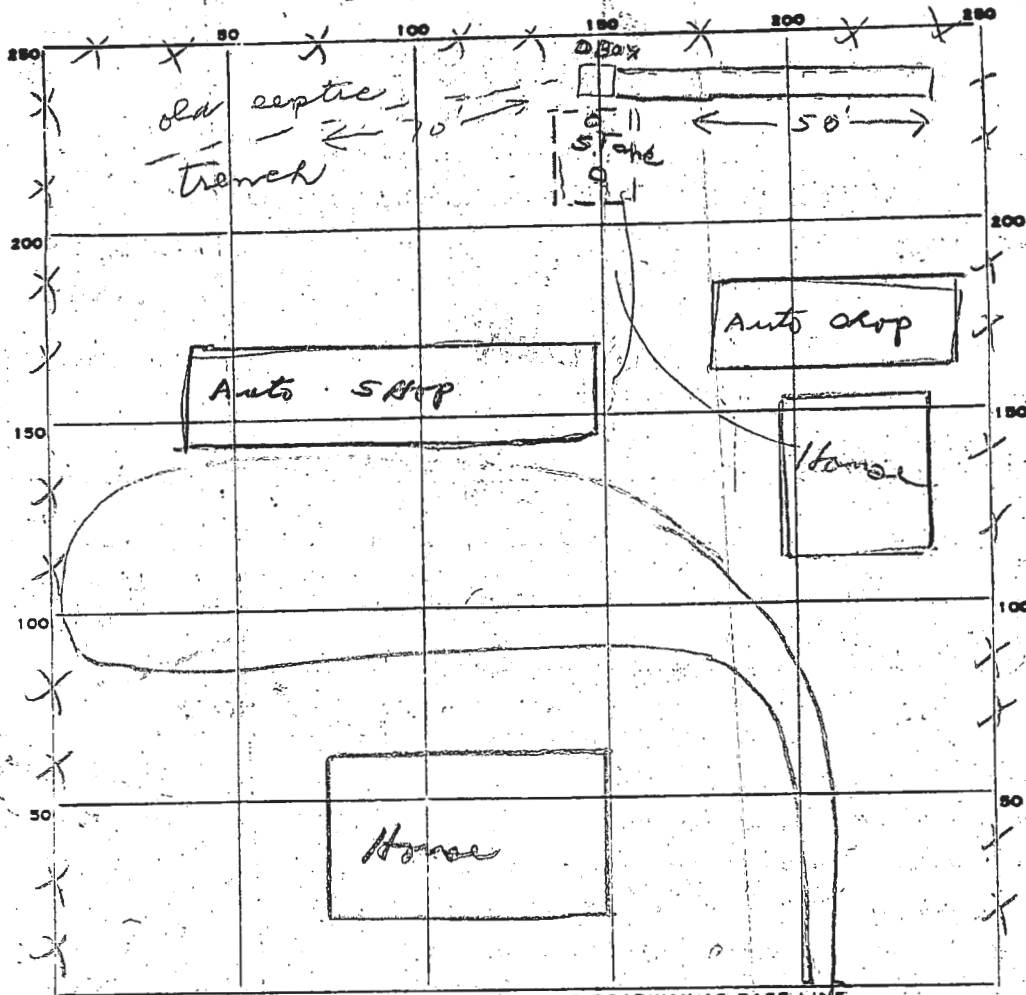
- COVER NO WORK UNTIL INSPECTED AND APPROVED.
- NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
- NOTE: IF TRENCH IS USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH.
- NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER. NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH.
- NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 40 PVC OR ABS.
- PERMIT VOID AFTER THREE YEARS.
- 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 PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

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

*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

X 33281



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Rt 32

PERMIT CARD

SEPTIC TANK, LEVEL

CLEANOUTS

DISTRIBUTION BOX, LEVEL

TILE FIELD, DEPTH 12 FT. TRENCH WIDTH 2 FT.

GRAVEL DEPTH 8 1/2 FT. IN. TOTAL LENGTH 50 FT.

NUMBER OF TRENCHES 1 TOTAL BOTTOM AREA 420

SEEPAGE PITS, INSIDE DIAMETER FT. DEPTH BELOW INLET FT.

ABSORBENT AREA 420 SQ. FT.

REMARKS *7/21/82 Dug manual 14 ft deep. Clay, brim to 13 1/2 ft then grey clay.*

7/21/82 OK to add stones in trench. 18
7/23/82 12:25 PM Stone Added Addition
ston & Pipe 1:30 PM Pipe put Distribution box
but job still not done RH

DATE SYSTEM APPROVED 7-26-82 GRAVEL OK, COUGA W/ PAPER & COUGA - NO WORK - JIM HAYNES PRESENT
 INSPECTOR C. L. ...