GENERAL NOTES

- A.) Neither driveway nor parking areas are allowed over septic system unless H-20 components are used and system is vented.
- B.) The designer will not be responsible for the system as designed unless constructed as shown. Any changes must be approved in writing by the
- C.) Contractor shall be responsible for verifying the location of all underground and overhead utilities prior to the commencement of
- D.) A copy of this plan was submitted to the Chatham Water Department

CONSTRUCTION NOTES

- 1.) All materials and construction shall conform to the State Environmental Code, Title 5, and the requirements of the local Board of Health.
- Topsoil, subsoil, peat, or other unsuitable or impervious material [15.255 (1)] shall be removed five (5) feet laterally in all directions beyond the outer perimeter of the soil absorption system to the depth of the naturally occurring pervious material(s) and replaced with fill material meeting the specifications of 310 CMR 15.255 (3), [15.255(5)].
- 3.) Septic tank(s), grease trap(s), dosing chamber(s) and distribution box(es) shall be set on a level stable base which has been mechanically compacted. If the component is placed in fill, proper compaction is required to ensure stability and to prevent settling; native ground with a 6 inch stone base is otherwise adequate [15.221(2)].
- 4.) Base aggregate shall consist of 3/4" to 1-1/2" double washed stone free of iron, fines and dust and shall be installed from below the crown of the distribution line to the bottom of the soil absorption system [15.247 [1]]. Base aggregate shall be covered with a 2" layer of 1/8" to 1/2" double washed stone free of iron, fines and dust [15.247 [2]].
- 5.1 From the date of installation of the soil absorption system until receipt 5.) From the date of installation to the soil absorption system after the period of a Certificate of Compliance, the perimeter of the soil absorption system shall be staked and flagged to prevent the use of such area for all activities which might damage the system [15.246(2)].
- 6.) The Board of Health shall require inspection of all construction by an agent of the Board of Health and the designer and shall require such persons to certify in writing that all work has been completed in accordance with the terms of the permit and approved plans. 48 hours advance notice

SEPTIC TANK NOTES

- 1.) 1,500 Gallon Two Compartment Septic Tank MicroFAST * ready
- 2.) Septic tank(s) shall be installed on a level stable base that has been mechanically compacted and onto which 6 inches of crushed stone has been placed [15.228(1)].
- Raise covers of the septic tank with pre-cast concrete or corrugated polyethylene water tight risers to within 6" of finish grade [15.228(2)].

DISTRIBUTION BOX NOTES

- 1.) Outlet pipes from D-box shall remain level for at least 2 feet before pitching to soil absorption system [15.232(3)[c)]. Water test D'box to assure even distribution [15.232(3)[b)].
- 2.) Raise covers of the D-Box with pre-cast concrete water tight risers over inlet and outlet tees to within 6" of finish grade.

Elev. = 18.7

Elev. = 17.55

2.0% ---

4" Schedule 40 PVC Pipe

Pipe Run (10' Minimum)

Finish Grade = 20.0

1500 gallon Septic Tank

	00
	••
CHE.	Ω.
	24
RECEIVED TOWN CLERK HARWICH, MA	III.
anton	7117

Top of Foundation, Elev. = 20.5'

Elev. = 17.75

2.0% Mini

86 Miles Street Harwich Port 05-05-2014 - AM; Partly Sunny

Soilev	aula	tor So	cott Arnold;	witness.	John Chath	am	
De	epth		Elevation	Horizon	Soil Matrix	Soil Texture	Soil Structure
Test Ho	ole #	1	18.8				
0	to	8	18.1	Α	7.5YR4/2	Loamy Sand	Very friable
8	to	28	16.5	В	7.5YR5/6	Loamy Sand	Very friable
28	to	120	8.8	C	10YR5/6	Medium Sand	Loose
		53	14.4	Percolat	ion Test, R	ate <2 min./inch	
Test Ho	ole #	2	19.7				
0	to	10	18.9	Α	7.5YR3/1	Loamy Sand	
10	to	27	17.5	В	7.5YR4/6	Loamy Sand	
27	to	132	8.7	С	10YR5/6	Coarse Sand	
Test Ho	ole #	3	18.9				
0	to	11	18.0	Α	7.5YR3/2	Loamy Sand	Very friable
11	to	23	17.0	В	7.5YR4/6	Loamy Sand	Very friable
23	to	132	7.9	С	10YR4/6	Medium Sand	Loose
Test Ho	ole #	4	19.4				
0	to	8	18.7	Α	7.5YR3/2	Loamy Sand	Very friable
8	to	13	18.3	E	7.5YR6/1	Loamy Sand	Loose
13	to	42	15.9	В	7.5YR4/6	Loamy Sand	Very friable
42	to	120	9.4	C	10YR5/6	Medium Sand	Loose
		62	14.2	Percolat	ion Test, R	ate <2 min/inch	

SYSTEM DESIGN CALCULATIONS

1.) Basis of Design Number of Bedrooms: Other: (Future Bedrooms)	3 2
2.) Design Daily Flow Sewage Flow:	550 GPD
3.) Septic Tank Capacity Required: Provided:	1500 Gal. 1500 Gal.
4.) Soil Absorption System Capacity	
Required:	550 GPD
Provided:	556 GPD*

5.) A garbage disposal is NOT permitted with this design

* [2 x (2' + 3' + 2') x 52 L.F. + 4 ends x 2' x 3'] x 0.74 GPD/S.F.

Zoning Compliance Table					
Zone	RL (Residential)				
	Existing	Required	Proposed		
Lot area	47,565 S.F.±	40,000 S.F.	47,565 S.F.±		
or	1.092 Ac.±	0.918 Ac.	1.092 Ac.±		
Frontage	127.66:Ft.	150 Ft.	127.66 Ft.		
Front 1 setback	83.7:Ft.	25 Ft.	83.7 Ft.		
Side 1 setback	34.9 Ft.	20 Ft.	34.9 Ft.		
Side 2 setback	63.2 Ft.	20 Ft.	32.1 Ft.		
Rear setback	39.2 Ft.	20 Ft.	21.3 Ft.		
Building coverage	3,065 S.F.±	7,135 S.F.	5,885 S.F.±		
or	6.44%	15%	12.37%		
Site coverage	11,010:S.F.±	14,270 S.F.	14,153 S.F.±		
or	23.15%	30%	29.76%		
Building height	27.1 Ft.±	30 Ft.	27.1 Ft.±		

Finish Grade = 19.5

Distribution Box

DB-9

(30" x 30")

Raise covers of D-Box with pre-cast

Elev. = 16.9

concrete or corrugated polyethylene water tight risers to within 6 inches

1.5% to 3.8% --

Outlet pipes from D-Box shall remain level for at least 2 feet before pitching

Elev. = 16.6

[15.232(3)(c)].

[15.232(3)(b)])

Water test D-Box to

PROFILE OF SYSTEM

(1.3)

1.0% m

Elev. = 17.3

1.0% ---

4" Schedule 40 PVC Pipe

Elev. = 17.1



6" Inspection Pipe

Elev. = 17.1

Elev. = 16.3

om of Trench = 14.3

Bottom of Test Hole = 7.9

Trenches

3/4" to 1-1/2" Washed Sto

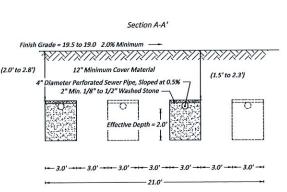
4" Diameter Perforated Sewer Pipe, Sloped at 0.5%

2" Min. 1/8" to 1/2" Washed Stone -













Proposed First Floor



SEWAGE DISPOSAL SYSTEM 86 Miles Street, Harwich, Massachusetts February 1, 2023

OWNER OF RECORD: eed Book 27,789, Page 326

Date
03-03-2023
10-18-2023

OLIVER HOLMES, LLC

EAST-SOUTHEAST, LLC

www.ese-llc.com * office@ese-llc.com 1038 Main Street, Chatham, MA 02633 (508) 945-3965 * Fax.: (508) 945-5885



Sheet 1 of 1

Scale: 1" = 30' (U.S. Survey Feet)

H-4163-02.0

X:\ARCHIVED DRAWINGS\4163 020 - 86 Miles Street (Oliver Homes. LLCI\4163 020 SITE 2023-10-18.dwg

© Copyright 2023 by East-SouthEast. LLC



Asphalt Shingles

W.C. Shingles—



- CD Indicates Carbon Dectector
- SD Indicates Smoke Dectector
- Indicates Heat Dectector

 XKXJ X=Number of King and Jack Studs
- APA Portal Wall. Use w/STHD 14 Holdown Strap. See (TT-100D)

Copyright 2022 by ZBRAT&McCARTHY d e s | g n s

NOTE: This drawing is protected as an "Architectural work" under section 102 of the copyright act (title 17) and may not be reproduced, copied or used without *Refer to "General Nailing Schedule-Ta 2. WFCM Wood Frame Construction Manual

Manual

Note: All construction shall be in accordance with American Forest a
Paper Association "Wood Frame Construction Manual for One and
Family dwellings (WCFM). Contractor shall be responsible to review
details to assure responsible methods.



COR-A-VENT-

L W.C. Shingles-

Scale

4 JAN 2023

PLAN

PROPOSED GARAGE

ZIBRAT & McCARTHY

63 Crowell Road Chatham, Mass.02633 508-945-9424

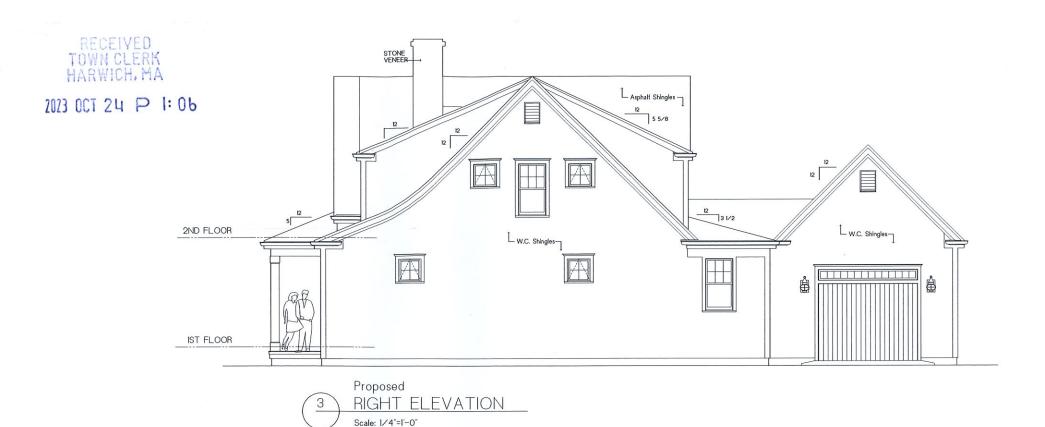
 \leq

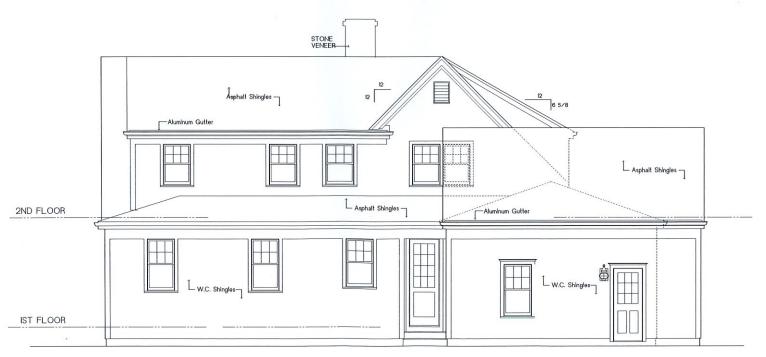
86 MILES ST.HARWICH PORT,



2ND FLOOR

IST FLOOR





62 Nail Spacing

- (C) Indicates Carbon Dectector
- SD Indicates Smoke Dectector
- Indicates Heat Dectector

 XKXJ X=Number of King and Jack Studs

 2KIJ Unless noted
- APA Portal Wall. Use w/STHD 14 Holdown Strap. See (TT-100D)

Copyright 2022 by
ZIBRAT&McCARTHY
d e s l g n s

NOTE: This drawing is protected as an "Architectural work" under section 102 of the copyright act (title 17) and may not be reproduced, copied or used without express permission of its author.

*Refer to "General Nalling Schedule—Table 2. WFCM Wood Frame Construction Manual Note: All construction shall be in accordance with American

nariusi

Ole: All construction shall be in accordance with American Forest and aper Association. 'Wood Frame Construction Manual for One and Two amily dwellings (WCPM). Contractor shall be responsible to review all etails to assure proper installation methods.

Proposed

REAR ELEVATION

Scale: 1/4"=1'-0"

ZIBRAT & McCARTHY LLP 63 Crowell Road Chatham, Mass,02633 508-945-9424

PROPOSED GARAGE FOR:

OLIVER HOMES LLC

86 MILES ST.HARWICH PORT, MA.

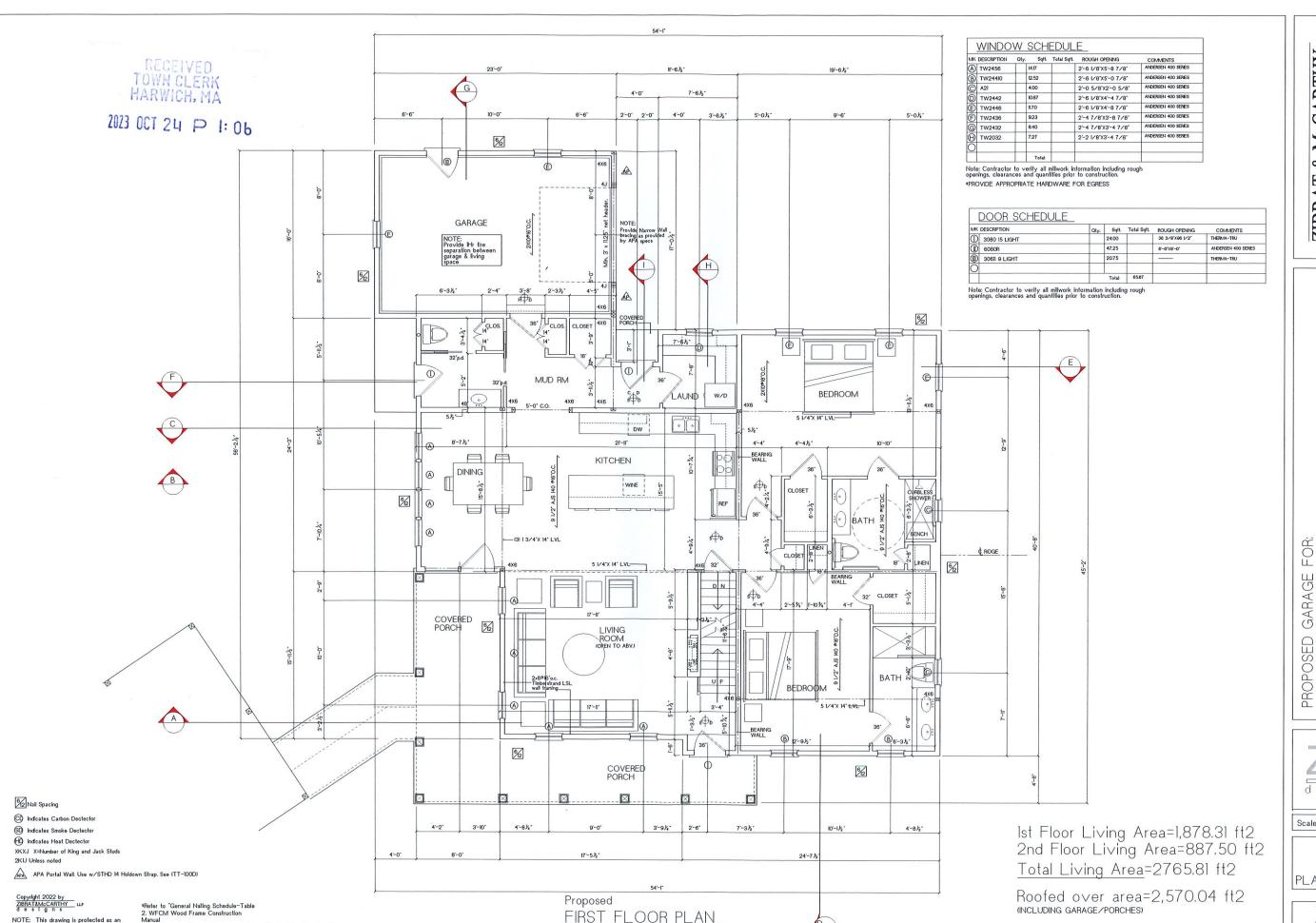


Scale

4 JAN 2023

PLAN





ZIBRAT & McCARTHY LLP 63 Crowell Road Chatham, Mass,02633

PROPOSED GARAGE FOR:

OLIVER HOMES LLC

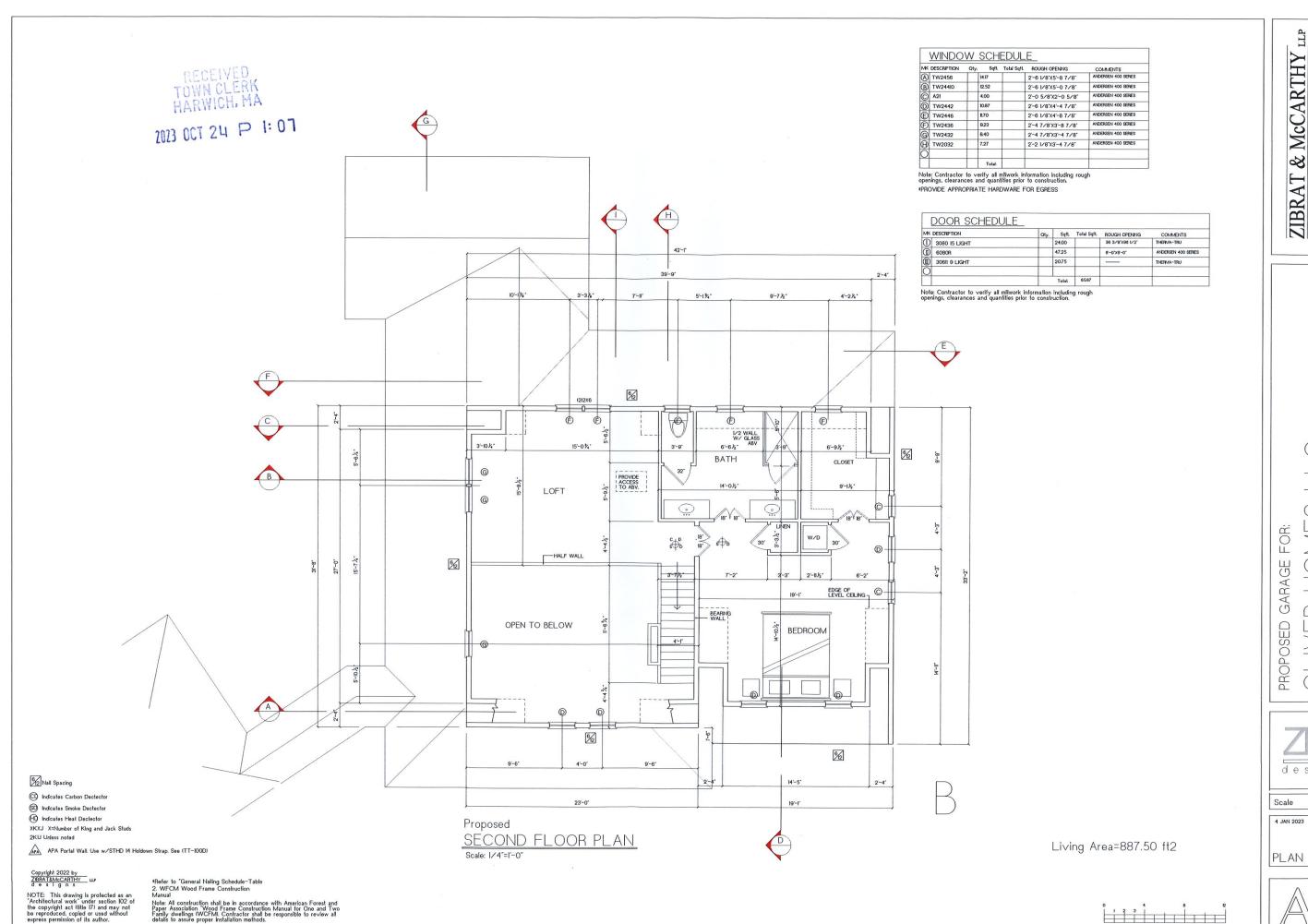
86 MILES ST.HARWICH PORT, MA

ZVC designs

Scale

PLAN

AA



LLP ZIBRAT & McCARTHY LING STOWN Road Chatham, Mass. 02633 508-945-9424

Ä ST.HARWICH FOR: GARAGE PROPOSED

Scale

4 JAN 2023

Sheet of

0 4 8 12











