

Please note that the Board of Appeals requires a complete application to be filed. Any application that the Board finds incomplete shall receive an automatic denial of a Comprehensive Permit. Applicants and their agents are strongly encouraged to work with the staff of the Board to insure that their application is ready for filing. The final determination of completeness does rest with the Board and will be first order of business at the public hearing. Please submit an original and 7 copies of this Application and 8 copies of the required supporting documentation.

Waiver of Application Requirements: if an applicant believes that any requirement contained in this application will make the 40B project economically unviable, they must first request a waiver from the Board in writing stating why the particular requirement being requested waived is so onerous as to render the entire project uneconomic. The Board will meet and decide to grant the waiver based solely on the written request and no hearing will be scheduled. Waivers of the application requirements will not be granted after an application has been filed.

Date: February 2, 2017

Applicant: Habitat for Humanity of Cape Cod, Inc
411 Main St/Rte 6a, Suite 6,
Yarmouthport, MA
508-362-3559

Property Owner: Harwich Ecumenical Council for the Homeless, Inc. ("HECH")
120 Route 28, 3rd Floor
Harwich, MA 02671
508-432-0015

Representative Attorney Warren H. Brodie
Law Offices of Warren h. Brodie, P.C.
2 Salt Hay Road
Waquoit, MA 02536
617-584-8152

Qualification for a comprehensive permit:

- () Public agency
(X) Non-profit Organization (attach IRS information/qualification and certificate of good standing)
() Limited Dividend organization (attach information/qualification/basis for profit limitation and certificate of good standing)

Location of Property: 93 and 97 Main Street, West Harwich
Assessors Map 10, Parcel W5 and W3-B

How many Lots will be subject to the Comprehensive Permit? 8 residential lots total; 6 to be deed restricted affordable and 2 to be market rate. Project also includes a cul-de-sac access roadway.

Dimensions of Lot #1:	192.85' Frontage	127.1 Minimum Width	8,749 Square Feet
Dimensions of Lot #2:	50.08' Frontage	76.1 Minimum Width	10,687 Square Feet
Dimensions of Lot #3:	27.20' Frontage	34.3 Minimum Width	10,541 Square Feet
Dimensions of Lot #4:	33.83' Frontage	42.5 Minimum Width	9,469 Square Feet
Dimensions of Lot #5:	48.56' Frontage	82.0 Minimum Width	9,365 Square Feet
Dimensions of Lot #6:	71.54' Frontage	104.7 Minimum Width	21,436 Square Feet
Dimensions of Lot #7:	240.27' Frontage	152.0 Minimum Width	10,426 Square Feet
Dimensions of Lot #8:	152.00 Frontage	177.3 Minimum Width	21,436 Square Feet

Dimensions of the entire Comprehensive Permit project area:

Dimensions of 93 Main St:	100' Frontage	99.9 Minimum Width	43,685 Square Feet
Dimensions of 97 Main St:	152' Frontage	152.0 Minimum Width	63,729 Square Feet

What is the basis of the applicant's control of the site (Deed, Purchase and Sale Agreement, Option Agreement, etc.)

Purchase and Sale Agreement and also Memo of Understanding – Please see Exhibit P

Did or will the applicant gain control of the site through an arms length transaction? Yes No (if no explain in full and complete detail).

Yes

Will any previous owner of the property (including beneficiary of a trust) have a financial interest or benefit from the Comprehensive Permit?

No

What is the current use of the property: Residential, rental units

How many buildings are now on the lot:

93 Main Street has a ranch style home;
97 Main Street has the older, historic "Chase" home and a detached barn

List sizes of existing and/or proposed buildings:

93 Main Street: Home has 2 units with a total of 5 bedrooms, 3 baths and 1,512 sq ft
97 Main Street: Home has 3 units with a total of 6 bedrooms, 3.5 baths and 2,379 sq ft
97 Main Street: Barn has 1 unit with a total of 2 bedrooms, 1 bath and 732 sq ft

For proposed buildings, please see Architectural Plans and Tabulation, Exhibit O

Date of site approval letter Please see Exhibit L

Agency providing Site approval Department of Housing and Community Development (DHCD)

Type of Housing: Single Family Detached ☒ Condos _____ Multi Family ☒

Unit Mix: Total Units Affordable Market
(Identify Affordable Units on Plan)

Project Description: Subdivision of two existing lots into 6 affordable housing lots and two market rate lots with an access cul-de-sac. Please see Project Narrative

Is the property currently nonconforming? ☒ Yes No

If yes, are you seeking zoning relief as a preexisting nonconforming use(s)? Yes ☒ No
Are you seeking relief as a preexisting nonconforming structure(s)? Yes ☒ No

(You must provide a narrative history of the property explaining, how, when and why the property became nonconforming)

Describe the specific zoning relief (exemptions) the applicant is seeking noting the relevant section of the Zoning By-law. State specifically the amount of relief necessary including what is proposed and what is required under the By-law. (use separate sheets if necessary and number each exemption separately)

Please see Requested Waivers, Exhibit Z

Number of Parking Spaces Required: 2 per single family dwelling; 1.5 per unit in multi-family

Number Provided:

Lots 1 through 6 (affordable Habitat lots): 2 per single family dwelling

Lot 7: existing

Lot 8: existing; when cul-de-sac is built parking off of Rt 28 will be eliminated and 4 spaces will be added

Total Gross area of the Site: Acreage: 2.466 Square Footage: 107,414

Total Buildable area of the Site: Acreage: 2.466 Square Footage: 107,414

Zoning District in which property is located: CH1 and RH1

Under the current zoning, how many units would be eligible to be built? Pre-existing there are 6 rental units (2 in the ranch, 3 in the Chase home and 1 in the barn)

Does any portion of the site contain wetlands? Yes ☒ No (If yes, attach map of site noting wetland resource areas)

Has your proposal been reviewed by the Harwich Conservation Commission? ☒ pending Yes No

Is the site located within a designated Flood Hazard area? ☒ Yes No If yes, which zone? AE and X

Does any portion of the site lie within a:	Water Resource Protection District?	Yes	☒ No
(If yes to any, provide map identifying these areas	Coastal Pond Overlay District	Yes	☒ No
and provide a narrative explaining mitigation	Zone II	Yes	☒ No
and/or economic impact of compliance)	Area of Critical Environmental Concern	Yes	☒ No
	District of Critical Planning Concern	Yes	☒ No
	Wildlife Corridors	Yes	☒ No
	Accident Prevention Zones	Yes	☒ No
	FEMA designated Velocity Zone	Yes	☒ No
	Historic District	Yes	☒ No

Is a Conservation Commission Hearing Required: ☒ Yes No

Has a Notice of Intent or Request for Determination of Applicability been filed? ☒ pending Yes No

Are there any hazardous waste sites within a ½ mile radius of the site? ☒ Yes No

Has a M.G.L. ch. 21E assessment been performed of the locus? Yes No (if yes attach a copy)
Please See Bennett Environmental Associates, Inc. Letter of Findings Exhibit W

Does the project cross any MEPA thresholds (301 CMR 11.00 et seq.)? Yes ☒ No

If yes, has an Environmental Notification Form been filed with the Executive Office of Environmental Affairs? Yes ☒ No

Is the site or any building located on the site listed, nominated or eligible for listing on the National Register of Historic Places? ☒ Yes No [There is historic interest in the Chase home](#)

Does the site qualify as "Prime Agricultural Land" under Executive Order 193? Yes ☒ No

If yes, has this proposal been discussed with the Department of Food and Agriculture? Yes No

Availability of Utilities (Indicate which utilities will be available to this site):

Public Sewer _____	Private Septic ☒ _____
Public Water ☒ _____	Private Wells _____
Natural Gas _____	Electricity ☒ _____

Type of Sewage Disposal:

Sewer _____ Title V ☒ _____ Denitrification _____

START HERE

Has there been a percolation test done? Yes ☒ No

If alternative system, please describe the type:

Project Information

Size of Development:

1. Total Number of Units: **12**

2. Number of Handicapped Accessible Units: [The 6 affordable Habitat homes will be visitable, and if a buyer household requiring accommodations is selected in the Habitat lottery, the homes would be built to suite the needs of the disability](#)

3. Number of Buildings: **9**

4. Number of Stories in Buildings: **1 or 2**

5. Number of Commercial Units: _____

Total Gross Square Footage of Building Space: _____

Total Gross Square Footage of Commercial Space: _____

Construction Type:

New Construction ☒ Rehabilitation ☒ Conversion _____

Type of Fuel:

Natural Gas _____ Oil _____ Electric ☒ ([Heat Pumps - Habitat Homes](#)) _____ Other _____

Parking Spaces Provided:

Enclosed _____ # Outdoor **2 per home for Habitat homes** _____ # Per Unit

What is the total lot coverage by structures? **9.94** % by structures, paving & parking?
18.42 %

Describe how/when the affordable units will be allocated? [Affordable units are allocated as per Site Plan, please see Exhibit N](#)

Will you use a lottery agent? ☒ Yes No

Who will be your lottery agent? [Habitat for Humanity of Cape Cod, Inc. will perform all Affirmative Fair Housing Marketing and Lottery. Please see Exhibit U.](#)

(attach a copy of commitment from lottery agent listing, all fees charged, and methodology used to determine qualification)

Has your lottery agent performed this function for a Comprehensive Permit previously? [X](#) Yes [No](#)

Will the affordable units be limited to persons older than age 55? Yes [X](#) No

Will the affordable units be limited to persons older than age 65? Yes [X](#) No

What provisions have you made for children? [Homes are two and three bedroom](#)

Complete the chart below:

Unit Mix: [Please see Architectural Plans and Tabulation, Exhibit O](#)

Subsidizing Agency: [Department of Housing and Community Development](#)

Subsidy Program: [Local Initiative Program](#)

Applicant signature: *Victoria Goldsmith*, [Habitat for Humanity of Cape Cod Executive Director](#)

Date: [February 2, 2016](#)

Preliminary Construction Budget [Please see Proformas, Exhibit Q](#)

**Required Supporting Documents Please Provide 8 copies1 of the Following:
(please make a check as appropriate on each line) Included N/A**

1. Complete Application with Filing Fee [✓](#)
2. Project Eligibility Letter [✓](#)
3. Site Approval Letter [n/a](#)
4. Evidence of Site Control [✓](#)
5. List of Development Team Members and their Responsibilities [✓](#)
6. Marketing Plan [✓](#)
7. Site Conditions Report [✓](#)
8. Topographic Plan [✓](#)
9. Utilities Plan [✓](#)
10. Preliminary Site Development Plans [✓](#)
11. Architectural Drawings & Outline Specs [✓](#)
12. Building Tabulations [✓](#)
13. Traffic impact report [✓](#)
14. Required District, Zone, Area, Corridor maps/plans [✓](#)
15. IRS Certification as a non profit organization [✓](#)
16. Limited Dividend Organization qualification [n/a](#)
17. Limited Dividend Organization audited financial report [n/a](#)
18. Secretary of State Certificate of Good Standing [✓](#)
19. Zoning History [n/a](#)
20. Mitigation/Economic Impact Report [n/a](#)
21. Notice of Intent/RDA
22. Ch. 21E Assessment – [environmental report](#) [✓](#)
23. ENF [n/a](#)
24. Lottery information [✓](#)
25. Monitoring information [✓](#)
26. Additional Information:
 - 1 An original signed application and 7 copies of the application. [✓](#)
 - a. Developer Standing [✓](#)
 - b. Local Endorsement [part of Local Initiative Program process](#) [✓](#)
 - c. Pro Forma Financial Review [pro formas](#) [✓](#)

Limited Dividend Organization Addendum [Not Applicable](#)



Habitat Home, Oak Street, Harwich

**HARWICH ZONING BOARD OF APPEALS
APPLICATION FOR A COMPREHENSIVE PERMIT
MGL Chapter 40B, Sections 20-23 and 760 CMR 56.00
Main Street West Harwich Community Housing**

**Habitat for Humanity of Cape Cod, Inc.
Feb 2, 2017**



Habitat for Humanity of Cape Cod

411 Main Street Suite 6 • Yarmouthport, MA 02675 • 508-362-3559
www.habitatcapecod.org

Town of Harwich
Zoning Board of Appeals
732 Main Street
Harwich Center, MA 02645

APPLICATION FOR A COMPREHENSIVE PERMIT MGL Chapter 40B, Sections 20-23 and 760 CMR 56.00

Applicant: Habitat for Humanity of Cape Cod, Inc.
Site: 93 and 97 Main Street, West Harwich
Project Name: Main Street West Harwich Community Housing
Date: February 2, 2017

NARRATIVE:

Habitat for Humanity of Cape Cod, Inc. proposes to use our tried-and-true sweat equity and volunteer model to build six new affordable homes on the back portion of the 2.466 acres of land located at 93 and 97 Main Street (Route 28) West Harwich (see Exhibit M for Location, Maps and Photographs and Exhibit N for Site Plan,).

The land is two separate lots, 93 and 97 Main Street. The property to the west, 93 Main Street, has an existing ranch home that is currently configured as a duplex. The property to the east, 97 Main Street, has an older, historic home (the Chase home) and a barn. The Chase home contains three separate dwelling units and the barn contains one dwelling unit.

Habitat is seeking permitting via Massachusetts General Laws, Chapter 40B to create eight separate housing lots and a cul-de-sac. The cul-de-sac would serve as access for the six new affordable homes as well as for the market-rate dwelling on 93 Main Street. Of the newly created eight housing lots, the two closest to Main Street (the two with current, existing structures) will be the “market rate” lots of the 40B and will not be subject to affordable housing restrictions or deed riders and will not be part of the new homeowners’ association.

The site, Assessors Map 10, Parcel w5 & w3-B, is in CH-1 and RH-1 Zoning District. Some parts of the site are within FEMA flood Zone AE, but the proposed Habitat homes will be sited so that all Habitat structures will be in a Zone X and not have the requirement for flood insurance. Habitat will file with the Harwich Conservation Commission for a Request for Determination of Applicability and will submit these materials to the Zoning Board.

Habitat proposes to build our cul-de-sac on the westernmost edge of the property. This will require approval from our western abutting neighbor, the owner of 87 Main Street. We have been working collaboratively with this neighbor, and expect to have a written agreement before the conclusion of our permitting process for both paving in front of her lot (approval needed as part of a Department of Transportation curb-cut application) and for minor re-grading on her property. In exchange Habitat would grant the neighbor rights in a portion of our cul-de-sac, should the rear of the lot be developed. We feel this is a beneficial approach to traffic planning and works well for all involved. It also means that the existing utility pole (in front of the dwelling on 93 Main Street) would not need to be relocated.

See Exhibit K for the Town of Harwich Comprehensive Permit Application Form.

See Exhibit Z for detailed zoning chart specific waivers being requested.

There is no municipal sewer, so the homes will require private on-site sewage disposal systems. Plumbing will be designed in the Habitat homes so that there are alternate outflows to the front of the homes, in anticipation of future sewers and to make future sewer hook up simpler and more affordable to the home owners. The homes will access town water, and the Habitat home owners association will specifically prohibit private wells for irrigation on the six affordable lots. While there is past documented water contamination in the vicinity, Habitat performed environmental testing to ensure that this contamination has no impacts on the site (see Exhibit W for Bennett Environmental Associates, Inc Letter of Findings)

The six Habitat homes will be a variety of architectural styles. There will be two 3-bedroom Capes, two 3-bedroom ranches and two 2-bedroom ranches. The Capes will have back decks or patios and the ranches will have a front farmer's porch (see Exhibit O for Architectural Plans). Habitat homes score advantageously on the HERS ratings. Our insulation meets and exceeds code standards, and we couple that with high efficiency air source heat pumps. We use sustainable and efficient building materials and practices whenever practical. Not only does this make our homes "greener" but it helps our buyer families with ongoing affordability, as utility costs are lowered. For our Main Street West Harwich neighborhood we have sited our homes to be able to use solar panels. Although we cannot commit to solar installations until we have secured funding, we have been very fortunate to have strong partners in the renewable energy field, including a great program through Cape Light Compact, and it is our hope to be able to include solar panels as part of our Harwich build.

All six Habitat homes will be affordable in perpetuity and the affordability will be protected by a Department of Housing and Community Development (DHCD) Local Initiative Program (LIP) Deed Rider. The six homes will count on Harwich's DHCD Subsidized Housing Inventory (SHI). The home will be

affordable to very-low income households; households earning at or less than 65% of Area Median Income. Home sale price will be at or around \$147,500 for a 3-bedroom and \$131,750 for a 2-bedroom (prices may be adjusted slightly higher based on Area Median Income and calculations at time of marketing). See Exhibit T for Pricing Model.

Habitat for Humanity of Cape Cod will use our will use our “sweat-equity” model to build the Main Street homes. With this model our selected purchaser-families will partner with Habitat and devote 250 to 500 hours building their homes alongside community volunteers. This promotes homeowners who are well educated on building and maintenance, and fosters a true sense of community. Habitat works closely with our buyers, not just through a rigorous application process, but throughout the construction period, providing significant homebuyer education including preparation for closing, budget counseling, and workshops in caring for their home and landscaping. Sweat equity and pre-purchase workshops have proven to be key elements in fostering successful homeownership.

Habitat also partners with our communities, seeking donations of materials, professional services, and labor. We strive to make our homes welcome in a neighborhood and to be good neighbors. Habitat works to create a collaborative spirit where a whole community can be actively involved in helping to address the affordable housing crisis.

With quality, desirable single-family homes priced affordably, Habitat for Humanity creates homeownership opportunities for families at income levels not served by other affordability programs. We are an experienced developer, having created 103 affordable Cape Cod homes since our founding as an affiliate of Habitat for Humanity International in 1988. We have recently had great success in Harwich with our homes on Oak Street. We look forward to continuing to create more Harwich homes.

Habitat for Humanity of Cape Cod works in partnership with families in need to build homes, hope, lives and community.

The “Market Rate” Lots

Lot 7 and Lot 8 on the draft plan (see Exhibit N) show the Market Rate lots. These lots will not be subject to the affordable housing restrictions or deed rider and will not be part of the new homeowners’ association. Ownership of these lots will initially be by current owner, HECH (Harwich Ecumenical Council for the Homeless, a 501(c)3 non-profit organization. It is HECH’s intent to convey Lot 8 to a developer who will record a historic preservation restriction on the front façade of the Chase home and the front façade of the barn. HECH may also convey Lot 7 to a developer. HECH understands that the proposed Comprehensive Permit plans call for relocation of the septic systems for the existing structures on the market-rate lots. HECH is also understands that the construction of the cul-de-sac will require the demolition of a portion of the existing structure on lot 8. The proposed site plan includes a building envelop for re-rehabilitation of the ranch home on Lot 8 so that when the garage dwelling unit is demolished a similar unit of the same square footage can be added in the rear of the lot as shown on the submitted plans. Future access to Lot 8 will be from the new roadway by way of easement.

760 CMR 56.04(4) Findings in Determination

760 CMR 56.04(4) (a)-(e): The proposed project is eligible under the Department of Housing and Community Development (DHCD) Local Initiative Program, as evidenced by the Project Eligibility Letter, to be attached as Exhibit L. The site is generally appropriate, the project design is generally appropriate, the project appears financially feasible and DHCD, in the role of Subsidizing Agency, has reviewed initial *pro formas* and found them financially feasible.

760 CMR 56.04(4)(f): Habitat for Humanity of Cape Cod, Inc. is a non-profit and §501(c)(3) organization. See Exhibit R for IRS Letter of Determination.

760 CMR 56.04(4)(g): Habitat for Humanity has control of the site. There is a Purchase and Sale Agreement for the back portion and an MOU regarding the front. See Exhibit P.

760 CMR 56.03 Methods to Measure Progress Toward Local Affordable Housing Goals

A Zoning Board of Appeals Comprehensive Permit denial shall be upheld if certain Statutory Minima are met. Harwich has not met these Minima and should therefore grant the Permit as requested.

760 CMR 56.03(1)(a): Harwich has not met the Computation of Statutory Minima. See Exhibit X, The Department of Housing and Community Development, Chapter 40B Subsidized Housing Inventory (SHI) as of December 5, 2014. As shown, Harwich, at 5.4%, has not met the 10% goal set forth in MGL Chapter 40B. There is no claim that Harwich has met either of the Land Area Minima as listed in 760 CMR 56.03(3).

760 CMR 56.03(1)(b): Harwich is not listed on the Department of Housing and Community Development web site as a “Certified Community” under an approved Housing Production Plan. Exhibit X, Certified Communities, Revised November 6, 2015.

760 CMR 56.03(1)(c): There is no claim that Harwich has made recent progress towards the Statutory Minima in accordance with 760 CMR 56.03(5).

760 CMR 56.03(1)(d): The project, at 12 units, is not a “large project” as defined in the Regulations.

760 CMR 56.03(1)(e): The project is not a “related application, previously received”, as defined in the Regulations.

Application Materials

As part of our application, in the following pages, please find the “Town of Harwich Application For Comprehensive Permit” the attachments referenced in this letter, the attachments required as part of the Harwich application. As a Local Initiative Program, we respectfully request the waiver of any applicable filing fees. See also Exhibit Y, “Zoning Board of Appeals Abutter List” and included with Exhibit Y is a letter that Habitat will be sending to this list, not intended to replace legal noticing but rather to augment it, and to keep the neighborhood informed of our plans.

Conclusion

We respectfully request approval of our Main Street West Harwich Project as submitted. As a Local Initiative Program application, this project has been endorsed by the Board of Selectmen, The Harwich Housing Committee and the Harwich Housing Authority. Habitat submitted an application to the Harwich Affordable Housing Fund for project feasibility funding and land acquisition funding, and received positive votes for both. This project has considerable local support, and Habitat is a well-known and well-respected developer of high-quality affordable housing.

TABLE OF ATTACHMENTS

APPLICATION FOR A COMPREHENSIVE PERMIT

MGL Chapter 40B, Sections 20-23 and 760 CMR 56.00

Applicant: Habitat for Humanity of Cape Cod, Inc.
Site: 93 and 97 Main Street, West Harwich
Project Name: Main Street West Harwich Community Housing
Date: February 2, 2017

Town of Harwich Application for Comprehensive Permit (Form)	Exhibit K
DHCD Project Eligibility Letter	Exhibit L
Site Maps and Photographs.....	Exhibit M
Site Plans.....	Exhibit N
Preliminary Architectural Plans	Exhibit O
Site Control (Purchase & Sale and Memo of Understanding)	Exhibit P
Project Proformas	Exhibit Q
IRS Letter of Determination/Secretary of State Certificate	Exhibit R
Developer Experience	Exhibit S
Affordable Pricing Model	Exhibit T
Marketing Plan.....	Exhibit U
Traffic Assessment	Exhibit V
Bennett Environmental Letter of Findings	Exhibit W
DHCD Subsidized Housing Inventory and Certified Communities.....	Exhibit X
ZBA Abutters/Habitat Letter	Exhibit Y
Requested Waivers	Exhibit Z



Commonwealth of Massachusetts
**DEPARTMENT OF HOUSING &
COMMUNITY DEVELOPMENT**

Charles D. Baker, Governor ♦ Karyn B. Polito, Lt. Governor ♦ Chrystal Kornegay, Undersecretary

February 1, 2017

Ms. Victoria Goldsmith
Executive Director
Habitat for Humanity of Cape Cod, Inc.
411 Main Street (Route 6A), Suite 6
Yarmouth Port, Massachusetts 02675

Mr. Michael D. MacAskill
Chair, Board of Selectman
Town of Harwich
732 Main Street
Harwich, Massachusetts 02645

RE: 93 and 97 Main Street, Harwich, Massachusetts
Revised Determination of Project Eligibility under the Local Initiative Program (LIP)

Dear Ms. Goldsmith and Mr. MacAskill:

I am pleased to inform you that your application for project eligibility under the Local Initiative Program (LIP) for the proposed 93 and 97 Main Street project has been approved. This approval is based on your application that sets forth a plan for the development of twelve (12) units. The proposed sales prices of the LIP units are generally consistent with the standards for affordable housing to be included in a community's Chapter 40B affordable housing stock.

As part of the review process, Department of Housing and Community Development (DHCD) staff has performed an on-site inspection of the proposed project sites. DHCD has made the following findings:

1. The proposed project appears generally eligible under the requirements of the Local Initiative Program, subject to final program review and approval;
2. The site of the proposed project is generally appropriate for residential development;
3. The conceptual plan is generally appropriate for the site on which the project is located;
4. The proposed project appears financially feasible in the context of the Harwich housing market;

5. The initial pro forma for the project appears financially feasible and consistent with cost examination and limitations on profits and distributions on the basis of estimated development costs;
6. The project sponsor and the development team meet the general eligibility standards of the Local Initiative Program;
7. The project sponsor has an executed Purchase and Sale agreement for the site.

The proposed project must comply with all state and local codes not specifically exempted by a comprehensive permit.

Please provide us with a copy of the comprehensive permit as soon as it is issued. The DHCD legal office will review the comprehensive permit and other project documentation. Additional information may be requested as is deemed necessary. Following the issuance of the comprehensive permit, the specifics of this project must be formalized in a regulatory agreement signed by the municipality, the project developer, and DHCD prior to starting construction.

As stated in the application, the 93 and 97 Main Street project will consist of twelve (12) units, six (6) of which will be affordable and eligible for inclusion in the Harwich's subsidized housing inventory. The affordable units will be marketed and sold to eligible households whose annual income may not exceed 80% of area median income, adjusted for household size, as determined by the U.S. Department of Housing and Urban Development.

The conditions that must be met prior to final DHCD approval include:

1. A final affirmative fair marketing and lottery plan with related forms shall be submitted that reflects LIP requirements including consistency with the *Comprehensive Permit Guidelines, Section III, Affirmative Fair Housing Marketing Plans*;
2. Any changes to the application it has just reviewed and approved, including but not limited to alternations in unit mix, sales price, development team, unit design, site plan and financial pro forma reflecting land value, must be approved by DHCD;
3. The project must be organized and operated so as not to violate the state anti-discrimination statute (M.G.L. c151B) or the Federal Fair Housing statute (42 U.S.C. s.3601 et seq.). No restriction on occupancy may be imposed on the affordable unit (other than those created by state or local health and safety laws regulating the number of occupants in dwelling units); and

4. The Town shall submit to DHCD the finalized details of the comprehensive permit.

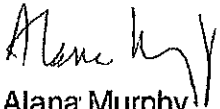
As the 93 and 97 Main Street project nears completion of construction, DHCD staff may visit the site to ensure that the development meets program guidelines.

When the units have received Certificates of Occupancy, the developer must submit to both DHCD and the Harwich Board of Selectmen a project cost examination for the comprehensive permit project.

This letter shall expire two years from this date or on February 1, 2019 unless a comprehensive permit has been issued.

We congratulate the Town of Harwich and Habitat for Humanity Cape Cod, Inc. on your efforts to work together to increase the Harwich's supply of affordable housing. If you have any questions as you proceed with the project, please call Alana Murphy at 617-573-1301.

Sincerely,



Alana Murphy
Deputy Associate Director

cc: Charleen Greenhalgh, Assistant Town Administrator
Christopher Clark, Town Administrator
David Reyer, Zoning Board of Appeals
Leedara Zola, Habitat for Humanity of Cape Cod
Office of the Chief Counsel, DHCD

Enc.

RESPONSIBILITY FOR COST CERTIFICATION:

By your signature below, Habitat for Humanity Cape Cod, Inc., acknowledges and accepts this approval letter, including the obligation under law to provide the Department of Housing and Community Development and the Town of Harwich with a project cost compilation.

Signature: _____

Name (print): _____

Date: _____

Upon receipt, please make copy of this letter and return a signed copy to Division of Housing Development, Department of Housing and Community Development, 100 Cambridge Street, Boston, MA 02114 ATTN: Local Initiative Program

93 and 97 Main Street, Harwich, Massachusetts

LOCAL INITIATIVE PROGRAM – COMPREHENSIVE PERMIT

Sponsor:

Habitat for Humanity
Cape Cod, Inc.
411 Main Street (Route 6), Suite 6
Yarmouth Port, MA 02675

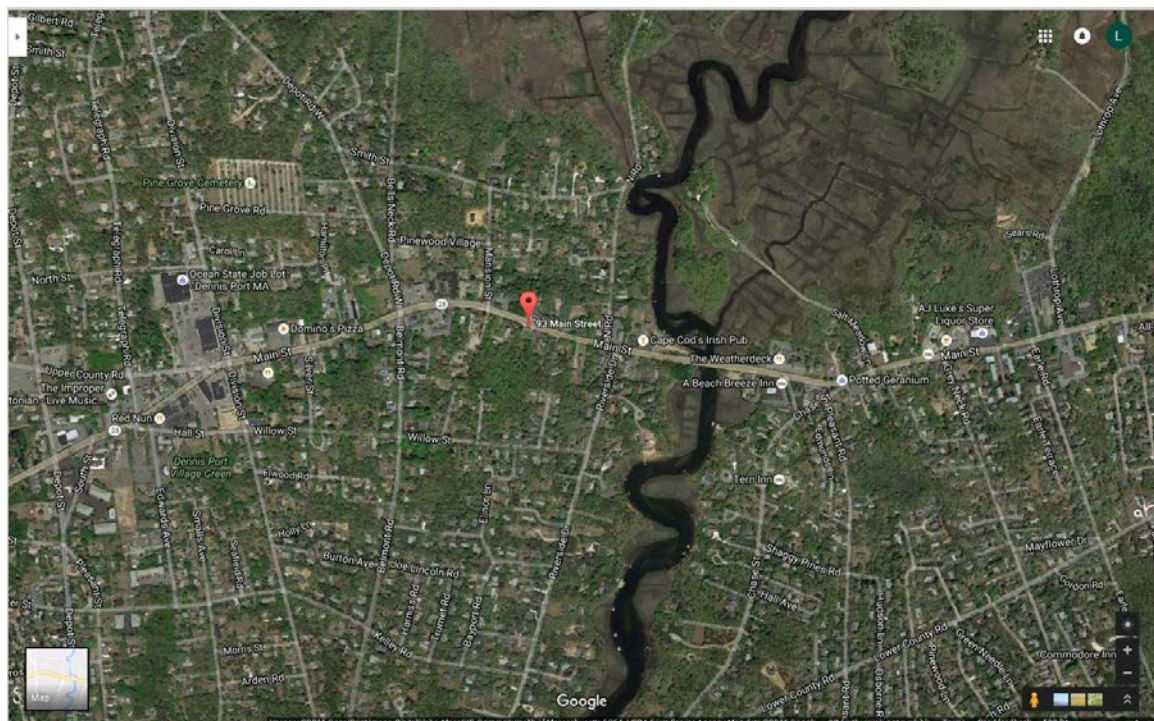
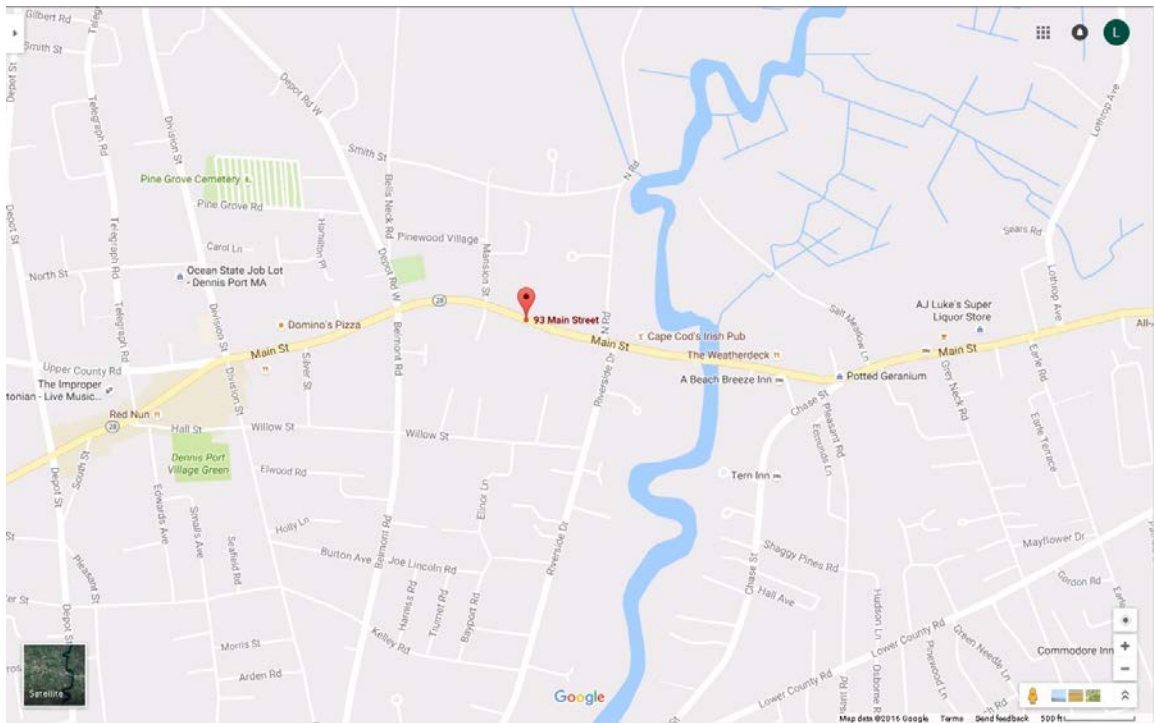
Project Addresses:

93 and 97 Main Street
Harwich, MA 02645

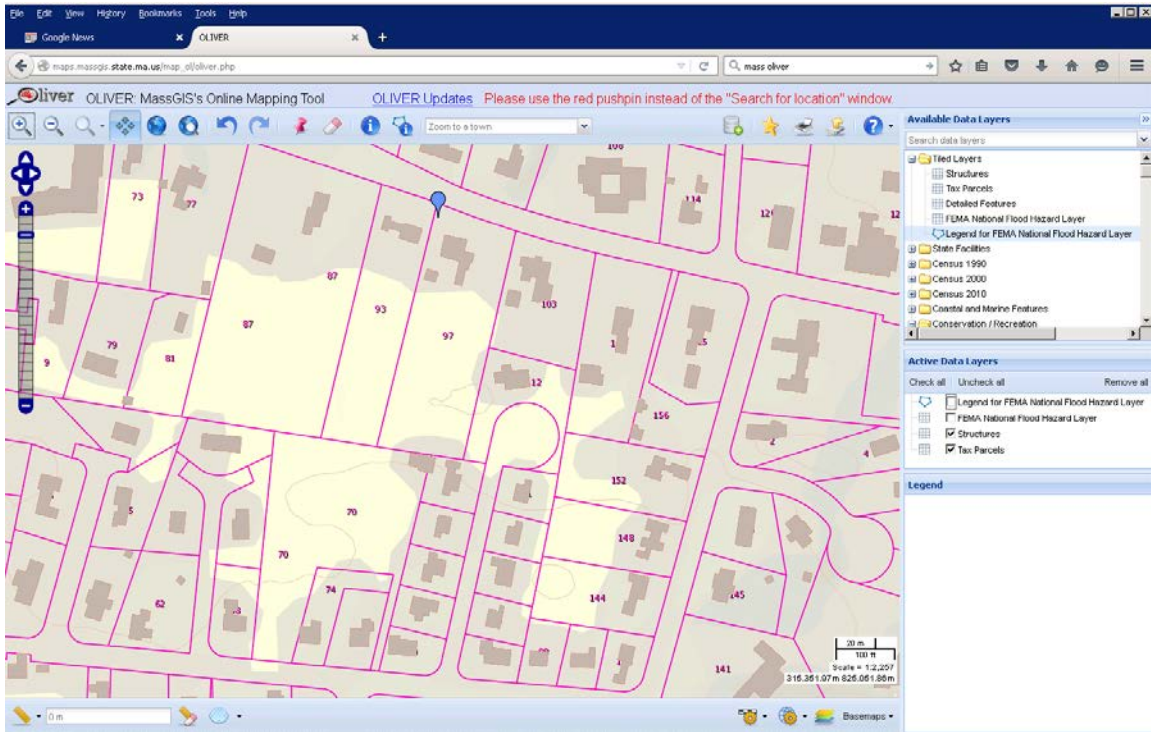
This project will provide opportunities according to the following breakdown:

Type of Unit	# of Units	# of Bdrms	# of Baths	Gross SF	Condo Fee	Maximum Sales Price
Market Units	2	1	1	350		
	3	2	1	877		
	1	3	1.5	1,000		
LIP Units	2	2	1	972	N/A	\$131,750
	2	3	1.5	1,200		\$147,500
	2	3	2	1,280		\$147,500
Total Units	12					

93-97 Main Street West Harwich and Area Maps/Photos

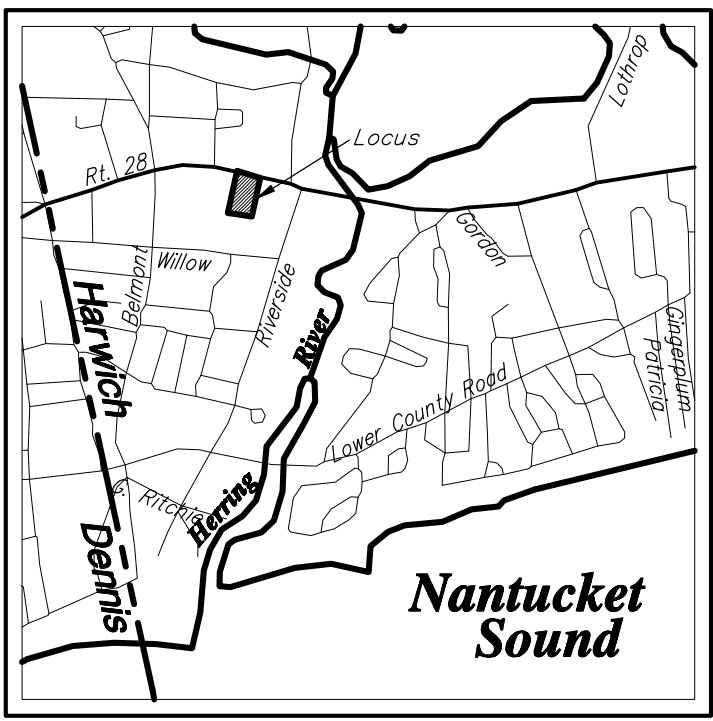


93-97 Main Street West Harwich and Area Maps/Photos



93-97 Main Street West Harwich and Area Maps/Photos





LOCUS MAP

SCALE 1"=2000'±

ASSESSORS MAP 10 PARCEL W5 & W3-B
LOCUS IS WITHIN FEMA FLOOD ZONE AE (EL 11) & X AS SHOWN ON COMMUNITY PANEL #25001C0611J DATED 7/16/2014

ZONING SUMMARY

ZONING DISTRICT: CH1 / RH1 DISTRICT
MIN. LOT SIZE 40,000 S.F.
MIN. LOT FRONTAGE 150'
MIN. FRONT SETBACK 25'
MIN. SIDE SETBACK 20'
MIN. REAR SETBACK 20'
MAX. BUILDING HEIGHT 30'
(ZONING RELIEF UNDER COMPREHENSIVE PERMIT REQUESTED AS REQUIRED)

OWNER OF RECORD

HARWICH ECUMENICAL COUNCIL
FOR THE HOMELESS INC.
PO BOX 638
WEST HARWICH, MA 02671

REFERENCES

DEED BOOK 21083 PAGE 20
DEED BOOK 21083 PAGE 22

LAND USE PERCENTAGES:

ROAD LAYOUT:	17,450 SF	0.400 AC.	16.3%
LOTS:	89,964 SF	2.065 AC.	83.7%
TOTAL TRACT:	107,414 SF	2.466 AC.	100%
BUILDINGS:	10,676 SF	0.245 AC.	9.94%
PAVEMENT:	19,783 SF	0.454 AC.	18.42%
OPEN AREAS:	76,955 SF	1.766 AC.	71.64%
TOTAL:	107,414 SF	2.466 AC.	100%

LEGEND

- 99 — EXISTING CONTOUR
- X 99.1 EXIST. SPOT ELEV.
- [99]- PROPOSED CONTOUR
- [13.2] PROPOSED SPOT EL.
- TH1 TEST HOLE
- 2% SLOPE OF GROUND
- UTILITY POLE
- FIRE HYDRANT
- W WATER LINE
- G GAS LINE
- E U.G. ELEC.
- O.H.E. OVERHEAD ELEC.
- EXIST. CATCH BASIN
- PROP. CATCH BASIN
- PROP. MANHOLE
- CEMENT BOUND

MAP 10 PCL W3
VIRGINIA CHAMBERLAIN
87 ROUTE 28
WEST HARWICH, MA 02671

MAP 10 PCL W6-1
RALPH A DIAMOND TR
PO BOX 326
W.HARWICH, MA 02671

MAP 10 PCL W6-2
JOSEPH W FLAHERTY JR
34 CHESTER AVE
WINTHROP, MA 02152

MAP 10 PCL X3
TOWN OF HARWICH - SELECTMAN
732 MAIN ST
HARWICH, MA 02645

MAP 10 PCL X5-5
MCDONNELL FAMILY TRUST
105 BRAYTON RD
BRIGHTON, MA 02135

NOTES:

1. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN IS APPROXIMATE. PRIOR TO ANY EXCAVATION ON THIS SITE, THE EXCAVATING CONTRACTOR SHALL MAKE THE REQUIRED 72 HOUR NOTIFICATION TO DIG SAFE (1-888-344-7233) AND ANY OTHER UTILITIES WHICH MAY HAVE CABLE, PIPE OR EQUIPMENT IN THE CONSTRUCTION AREA FOR VERIFICATION OF LOCATIONS.
2. ALL CONSTRUCTION MATERIALS, COMPONENTS, AND METHODS EMPLOYED ON THIS PROJECT WORK SHALL CONFORM TO THE TOWN OF HARWICH SUBDIVISION REGS. AND/OR THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR BRIDGES AND HIGHWAYS AS AMENDED TO PRESENT. ALL SEPTIC WORK AND MATERIALS TO CONFORM TO 310 CMR 15.00 TITLE 5, AND HARWICH HEALTH REGULATIONS.
3. VERTICAL DATUM IS NAVD83 HORIZONTAL NAD83. MUNICIPAL WATER IS AVAILABLE.
4. DESIGN LOADING FOR ALL PRECAST UNITS TO BE AASHTO-H20 UNLESS NOTED.
5. THIS PLAN IS FOR PROPOSED WORK ONLY AND IS NOT TO BE USED FOR PROPERTY LINE STAKING, FENCING, ETC.
6. 4" LOAM AND SEED ALL DISTURBED AREAS NOT PAVED, M6.03.0 SEED, OR STABILIZE WITH WOOD CHIPS, BARK MULCH, OR SIMILAR.
7. ALL SEPTIC PIPING 4" SCH-40 PVC AT 1% MIN. UNLESS NOTED.
8. COMPONENTS NOT TO BE BACKFILLED OR CONCEALED WITHOUT INSPECTION BY BOARD OF HEALTH AND PERMISSION OBTAINED FROM BOARD OF HEALTH.
9. SEPTIC PIPE TO FRONT OF EACH BUILDING STUBBED THROUGH FOUNDATION FOR POTENTIAL FUTURE SEWER HOOKUP REQUIRED. CAP BOTH ENDS.
10. NO IRRIGATION WELLS OR POTABLE WELLS ARE ALLOWED IN THIS SUBDIVISION.
11. ELECTRIC HEAT PUMPS PROPOSED FOR NEW DWELLINGS, NO GAS SERVICE REQUIRED. HOMES TO BE ALIGNED WITH SOUTH FACING ROOFS FOR SOLAR.

SITE PLAN

OF

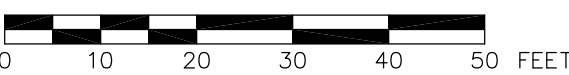
#93 & #97 MAIN STREET
WEST HARWICH, MA

PREPARED FOR

HABITAT FOR HUMANITY

DATE: 1-31-2017

Scale: 1"= 20'



off 508-362-4541
fax 508-362-9880
down cape engineering, inc.
civil engineers
land surveyors
939 Main Street (Rte 6A)
YARMOUTHPORT MA 02675

DANIEL A. OJALA, P.E., P.L.S. DATE
PERMIT SET, NOT FOR CONSTRUCTION

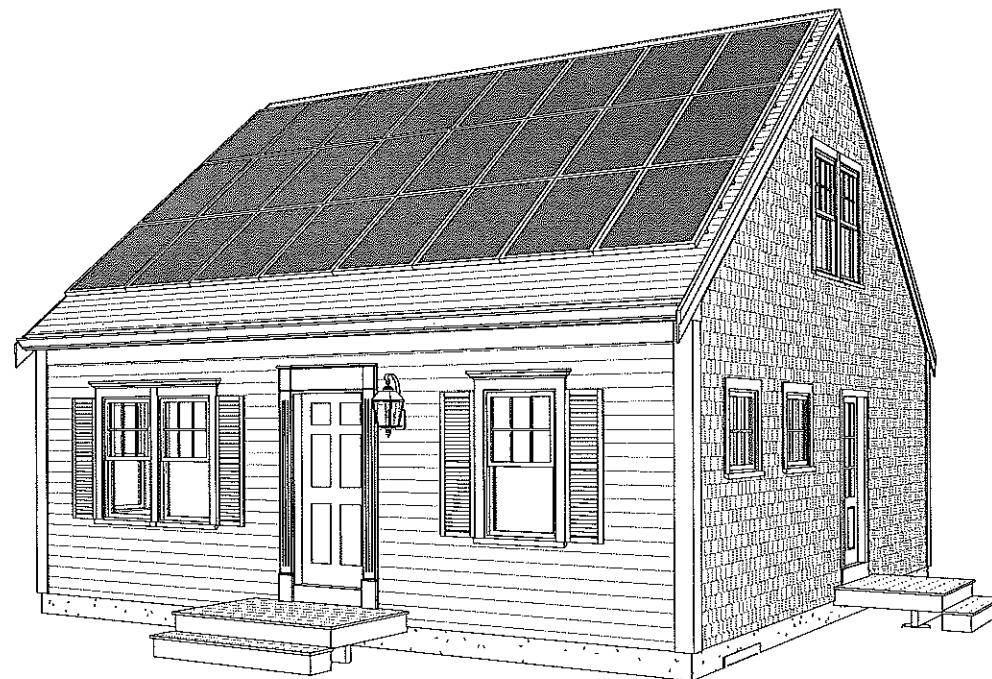
Architectural

Following please find preliminary architectural plans for the affordable, new construction homes. These are in draft stage and may change prior to submission of our application for a Comprehensive Permit, but they are indicative of our approach.

Unit Mix:

Unit Style	# Units	# Bedrooms	Sq Ft	#Bathrooms	#Parking Spaces
ranch	2	2	972	1	2
ranch	2	3	1200	1.5	2
cape	2	3	1284	2	2
Affordable totals:	6	16	6,912		12
<i>existing structures</i>	<i>2 structures (6 units)</i>				
<i>93 Main Street (ranch)</i>	<i>2</i>	<i>5 bdrms total</i>	<i>1,512 total</i>	<i>3 total</i>	<i>existing</i>
<i>97 Main Street (Chase Home and Barn)</i>	<i>3 plus 1</i>	<i>4 bdrms plus 2 bdrms</i>	<i>2,379 plus 732</i>	<i>3.5 plus 1</i>	<i>existing</i>

3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #1 ON 93 & 97 MAIN STREET
HARWICH, MA



ARCHITECTS

BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC.

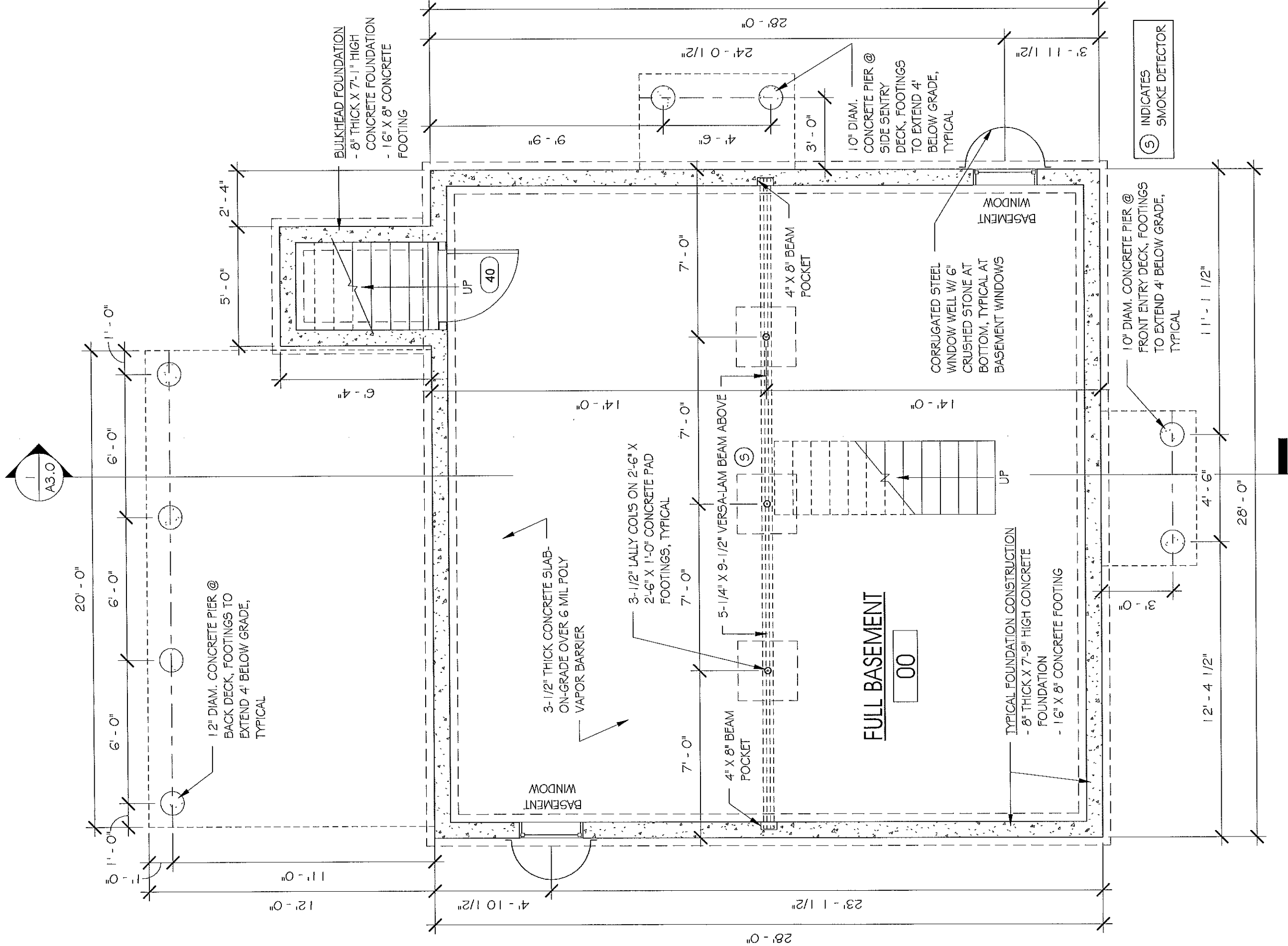
203 WILLOW STREET SUITE A
YARMOUTHPORT, MA. 02675

93B COURT STREET, UNIT 22
PLYMOUTH, MA. 02360

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WWW.CAPEARCHITECTS.COM

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12.15.2016

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1 FOUNDATION PLAN
1/4" = 1'-0"

3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #1 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:
FOUNDATION
PLAN

DATE ISSUED: 12. 15. 2016

REVISIONS:

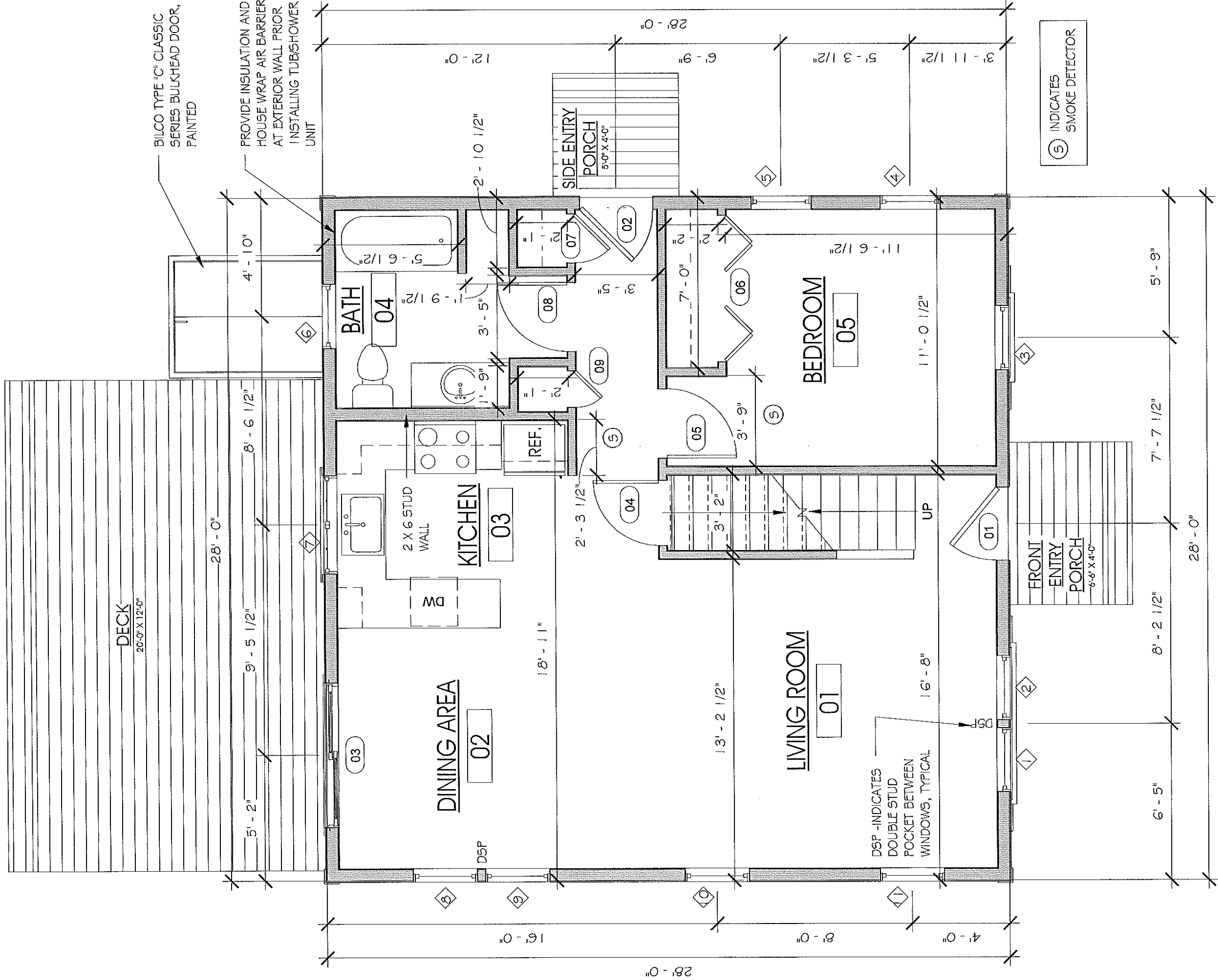
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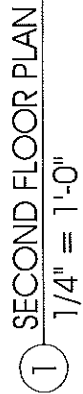
BROWN LINDQUIST FENUCCIO & RABER
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2628
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1 FIRST FLOOR PLAN
1/4" = 1'-0"

DRAWING NO.: A1.1		DRAWN BY:		REVISIONS:		DATE ISSUED: 12. 15. 2016		TITLE: FIRST FLOOR PLAN		3-BR CAPE FOR HABITAT FOR HUMANITY OF CAPE COD LOT #1 ON 93 & 97 MAIN STREET HARWICH, MA		BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC. 203 WILLOW STREET, SUITE A YARMOUTHPORT, MA 02675 2028 PH 508-362-8382 FAX 508-362- WWW.OAKARCHITECTS.COM		STAMP:	
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A1.2

REVISIONS:

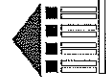
DATE ISSUED: 12. 15. 2016

TITLE:

SECOND
FLOOR
PLAN

3-BR CAPE FOR

HABITAT FOR HUMANITY OF CAPE COD
LOT #1 ON 93 & 97 MAIN STREET
HARWICH, MA



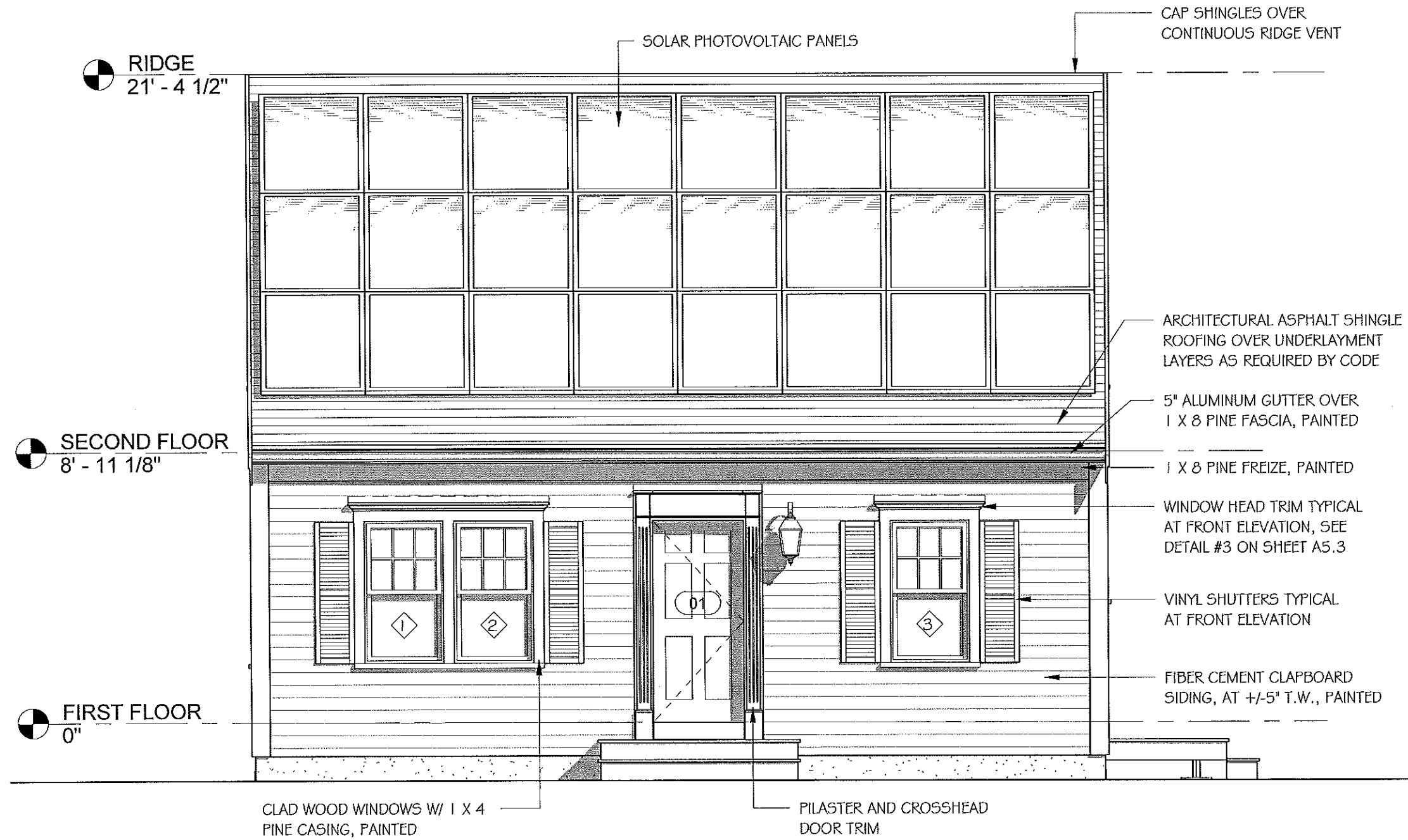
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12/21/2016 9:07:31 AM
H:\Current Projects\Commercial\Habitat for Humanity of CC - 93_97 Main St. Harwich\Drawings\Current Dwgs\LOT#1_HFH_Harwich_3BR CAPE TYPE A.M



① FRONT ELEVATION
1/4" = 1'-0"

STAMP:

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3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #1 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

FRONT
ELEVATION

DATE ISSUED: 12. 15. 2016

REVISIONS:

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2828
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FAX 508-362-
WWW.CHAIRARCHITECT.COM

3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #1 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

REAR
ELEVATION

DATE ISSUED: 12. 15. 2016

REVISIONS:

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A2.2

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 RIDGE
21' - 4 1/2"

WHITE CEDAR SHINGLE
AT +/-5" T.W., PAINTED W/ HABITAT
LOGO / PATTERN CUT INTO SHINGLES

SOLAR PHOTOVOLTAIC PANELS

1 x3 OVER 1 X 8 PINE RAKE
BOARDS, PAINTED

WHITE CEDAR SHINGLE
AT +/-5" T.W., PAINTED

 SECOND FLOOR
8' - 11 1/8"

PREFINISHED (WHITE)
ALUMINUM CAP FLASHING OVER
WINDOW & DOOR CASING, TYPICAL

CLAD WOOD WINDOWS - SEE
WINDOW SCHEDULE W/ 1 X 4
PINE CASING, PAINTED

1 X 6 PINE CORNERBOARDS,
PAINTED

 FIRST FLOOR
0"

FRONT ENTRY PORCH W/
5/4" X 6 P.T. DECKING AND
PINE RISERS, PAINTED

SIDE ENTRY PORCH W/ 5/4" X 6
P.T. DECKING AND PINE RISERS,
PAINTED

1 X 6 PINE CORNERBOARDS,
TYPICAL AT DORMERS, AINTED

ALUMINUM STEP FLASHING TO
EXTEND BEHIND SIDING AND
ALTERNATE WITH SHINGLE
COURSES

DOOR -SEE DOOR SCHEDULE
W/ 1 X 4 PINE CASING, PAINTED

BILCO TYPE "C" CLASSIC
SERIES BULKHEAD DOOR,
PAINTED

 RIGHT SIDE ELEVATION
1/4" = 1'-0"

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3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #1 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:
**RIGHT SIDE
ELEVATION**

DATE ISSUED: 12. 15. 2016

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① LEFT SIDE ELEVATION
1/4" = 1'-0"

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3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #1 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

LEFT SIDE
ELEVATION

DATE ISSUED: 12, 15, 2016

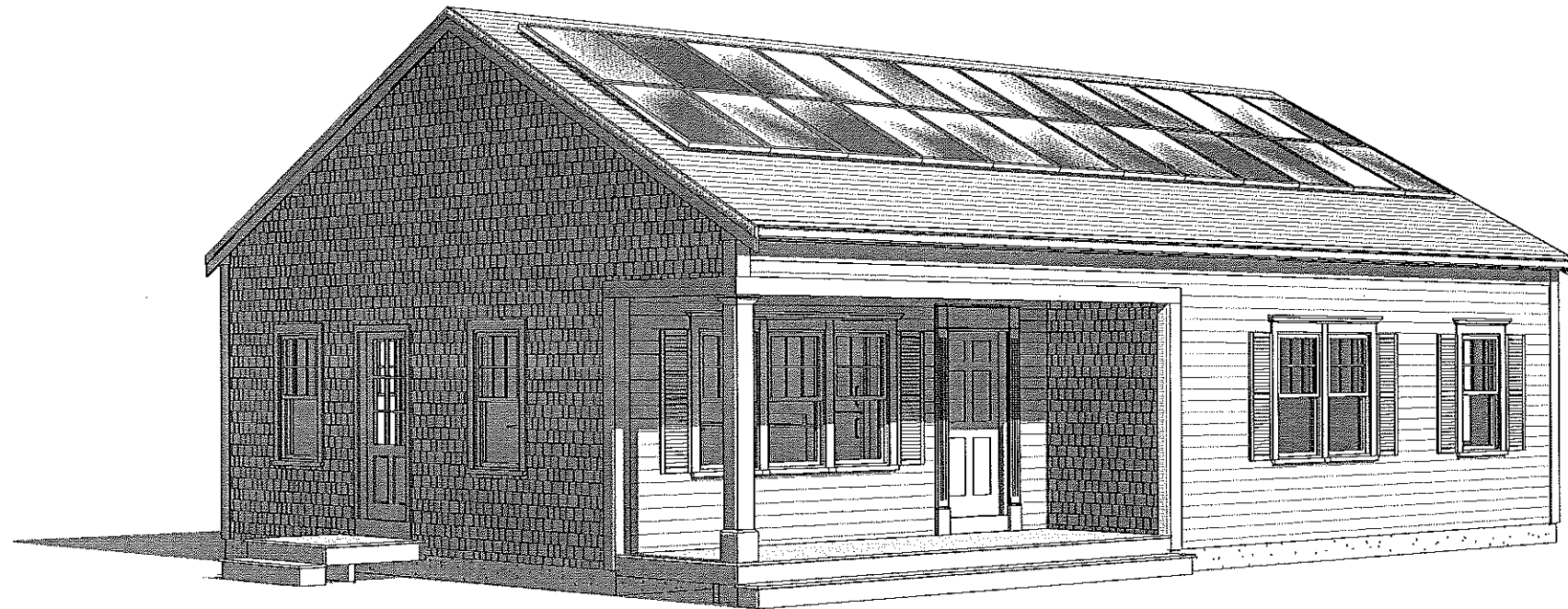
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DRAWING NO.:

A2.4

3-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #2 ON 93 & 97 MAIN STREET
HARWICH, MA



ARCHITECTS

BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC.

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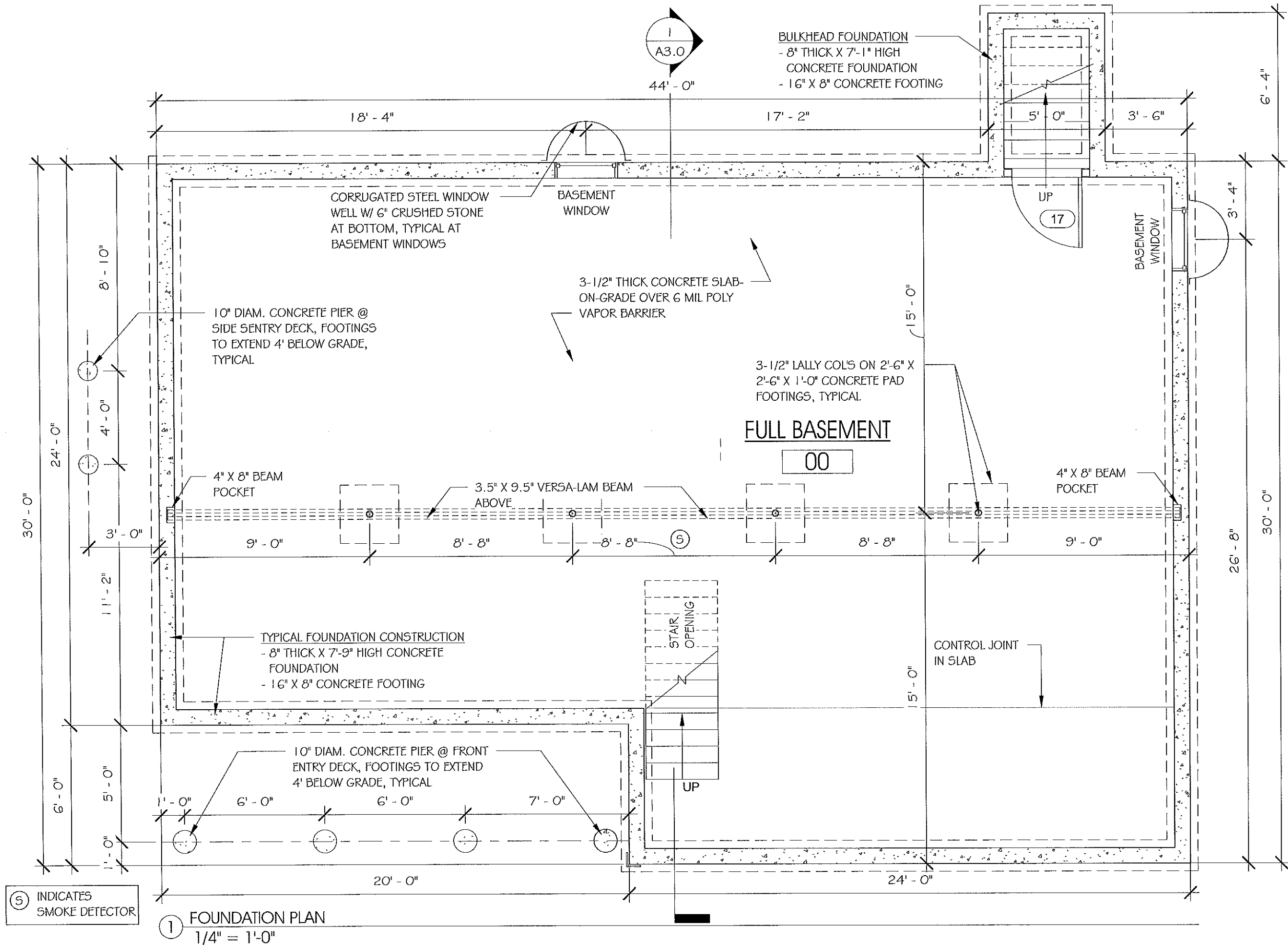
93B COURT STREET, UNIT 22
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1/21/2016 8:42:55 AM
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3-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #2 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:
FOUNDATION
PLAN

DATE ISSUED: 12. 15. 2016

REVISIONS:

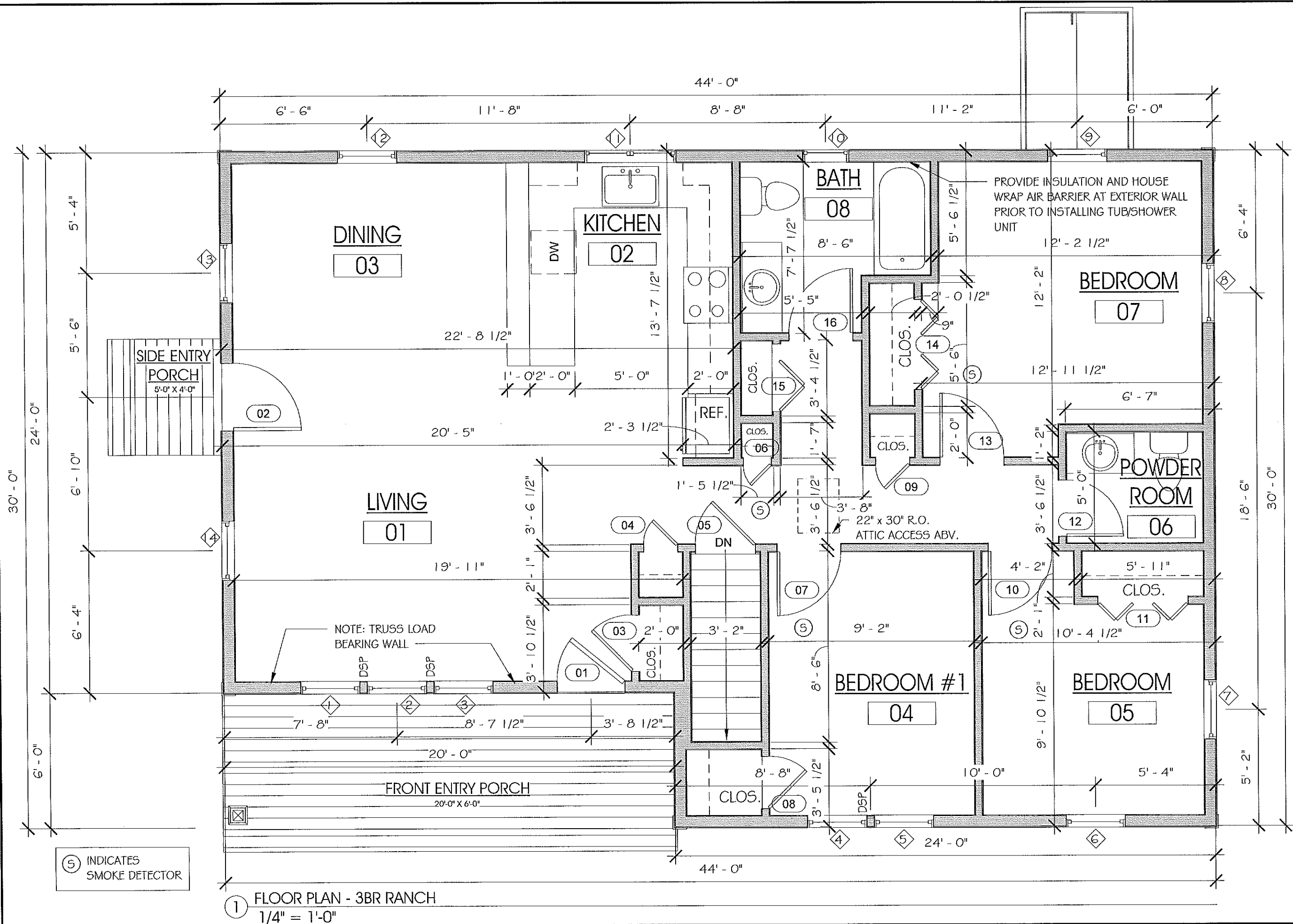
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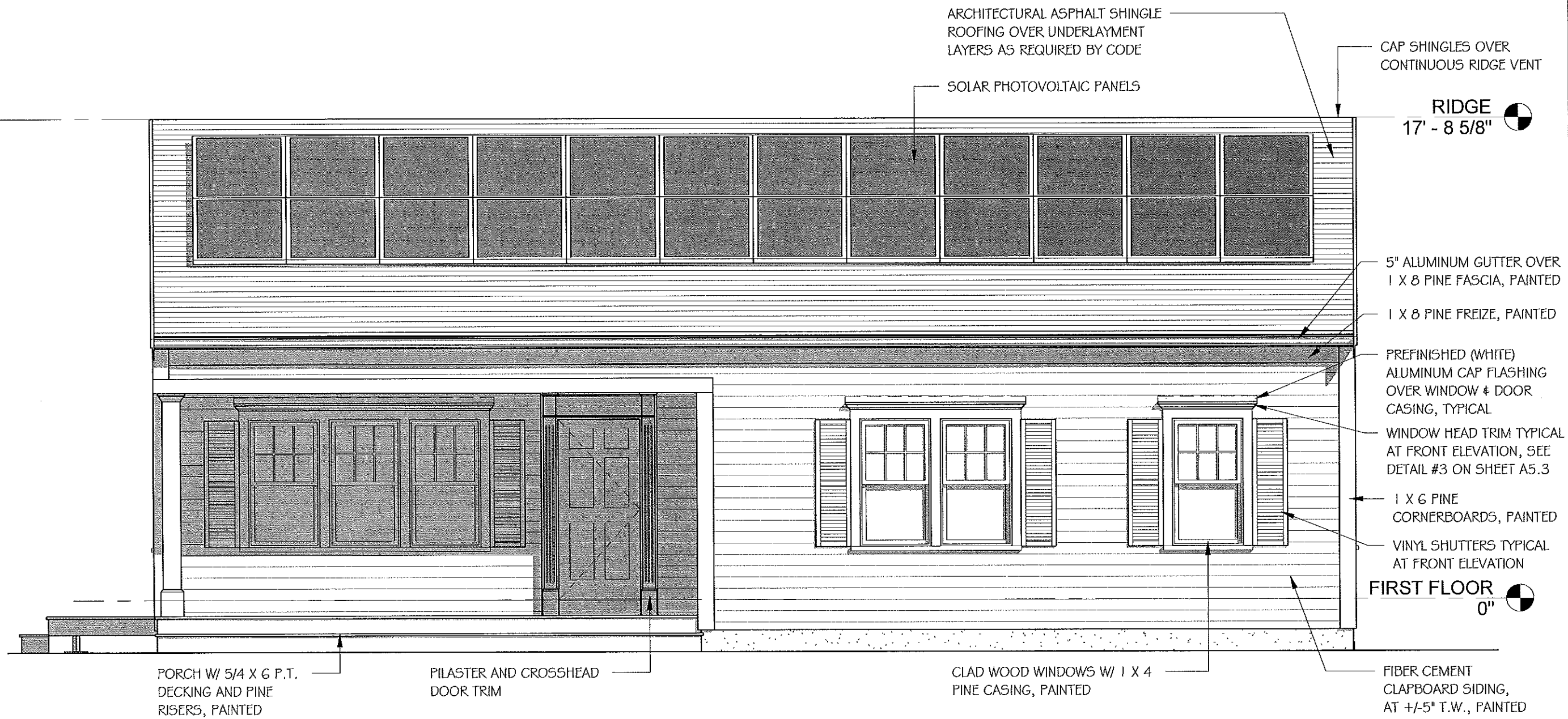
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3-BR RANCH FOR HABITAT FOR HUMANITY OF CAPE COD LOT #2 ON 93 & 97 MAIN STREET HARWICH, MA	
TITLE: FIRST FLOOR PLAN	
DATE ISSUED: 12. 15. 2016	
REVISIONS:	
DRAWN BY:	
DRAWING NO.: A1.1	

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1 FRONT ELEVATION
1/4" = 1'-0"

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3-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #2 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

FRONT
ELEVATION

DATE ISSUED: 12. 15. 2016

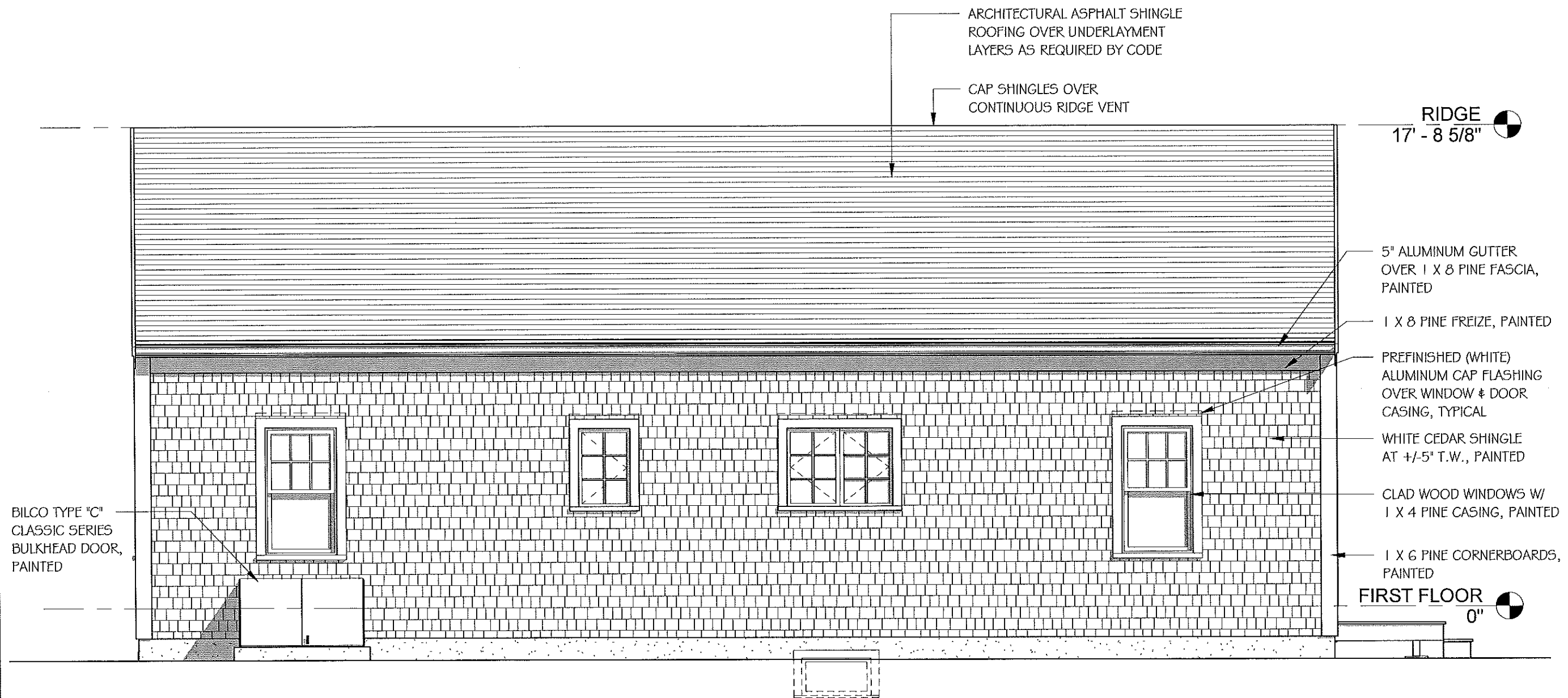
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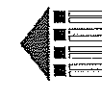
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① REAR ELEVATION
1/4" = 1'-0"

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3-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #2 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

REAR
ELEVATION

DATE ISSUED: 12. 15. 2016

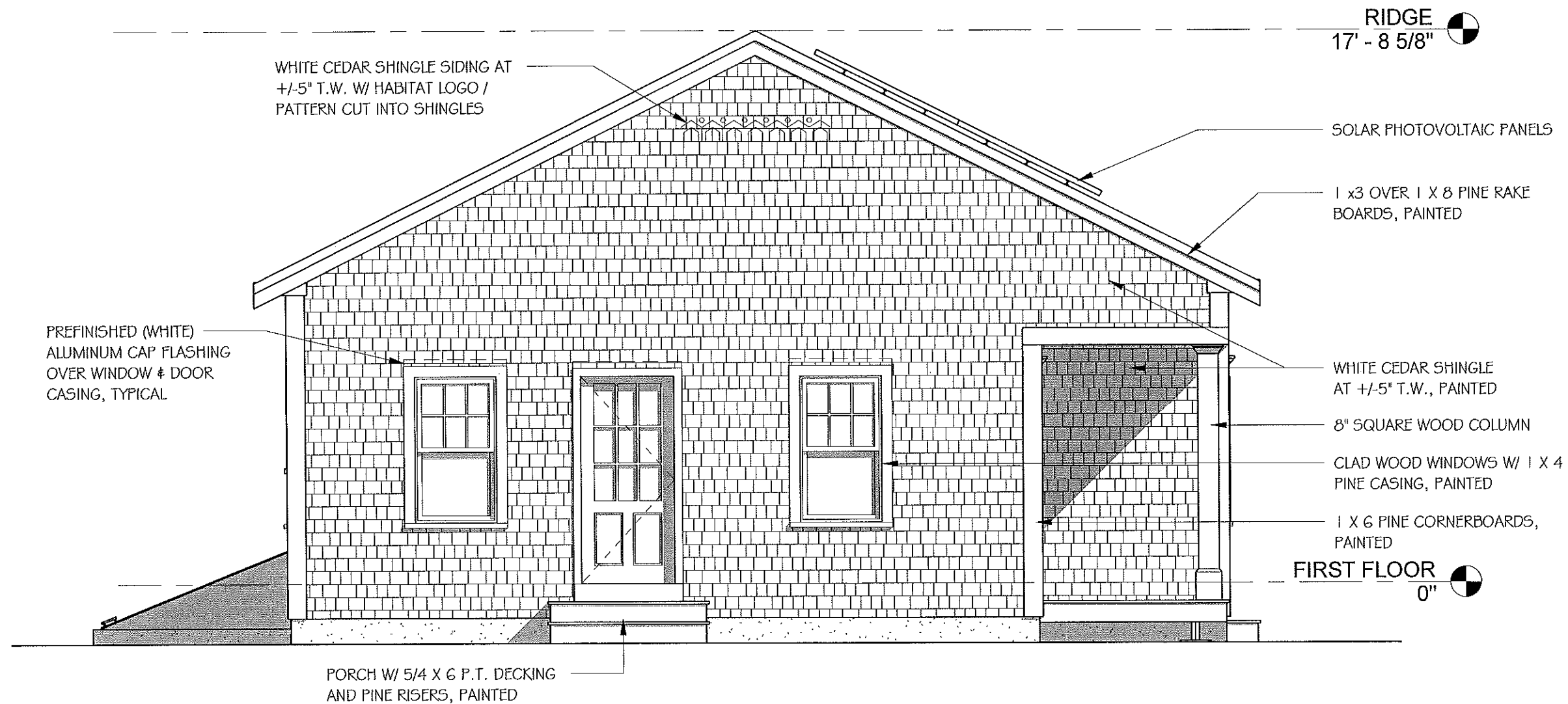
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① LEFT SIDE ELEVATION
1/4" = 1'-0"

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3-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #2 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

LEFT SIDE
ELEVATION

DATE ISSUED: 12. 15. 2016

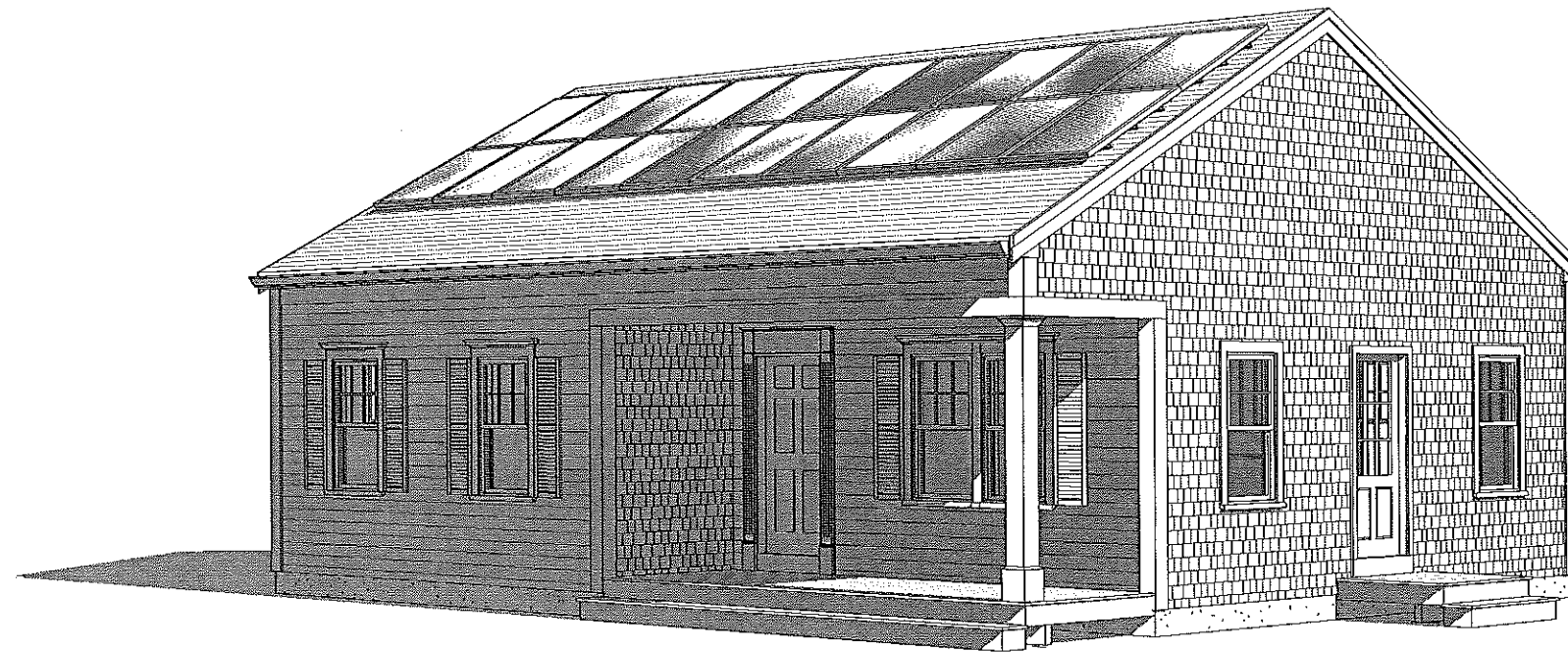
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A2.4

2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #3 ON 93 & 97 MAIN STREET
HARWICH, MA



ARCHITECTS

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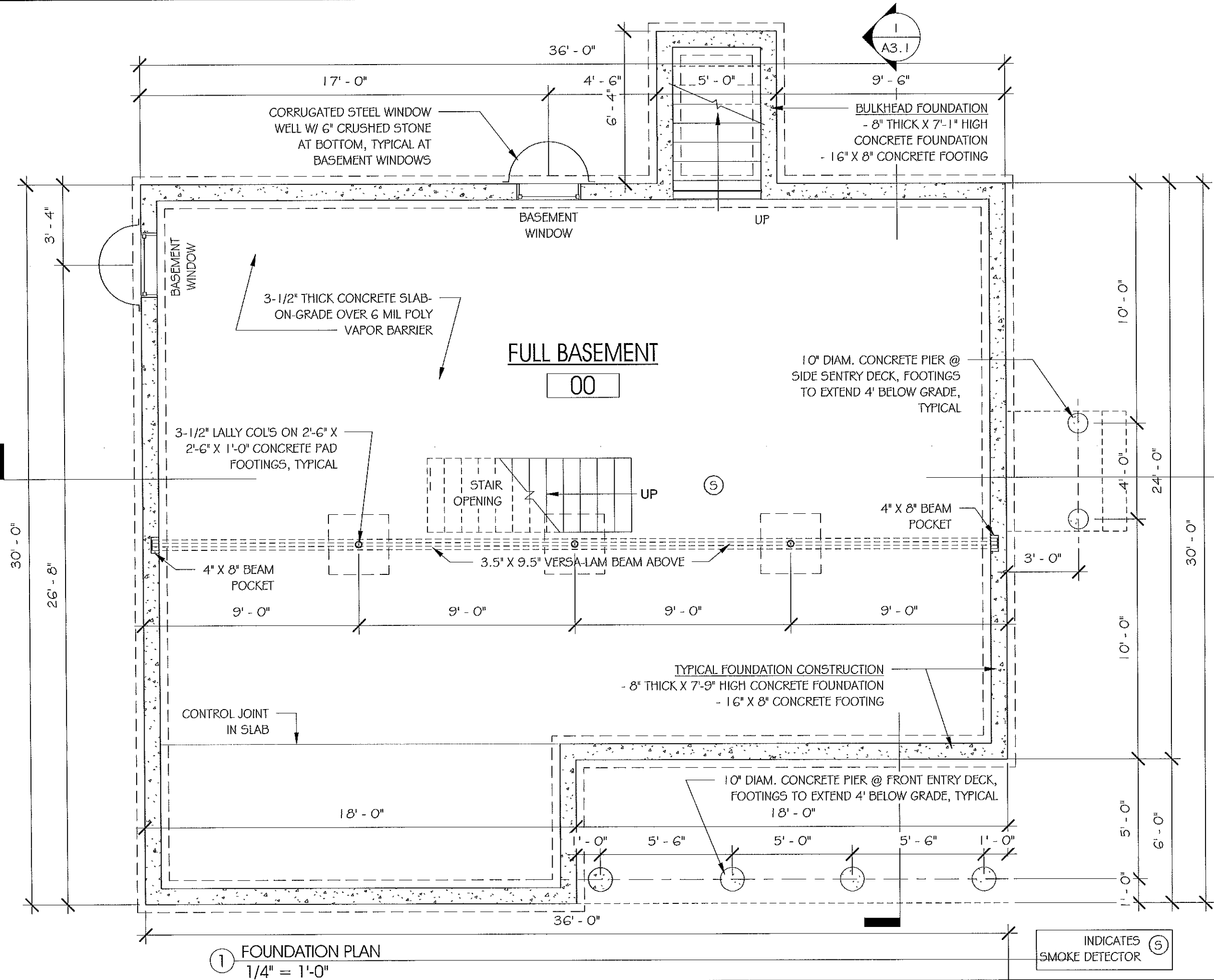
93B COURT STREET, UNIT 22
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1 FOUNDATION PLAN
1/4" = 1'-0"

INDICATES
SMOKE DETECTOR 5

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2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #3 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:
FOUNDATION
PLAN

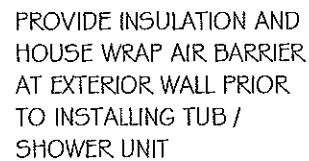
DATE ISSUED: 12. 15. 2016

REVISIONS:

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DRAWING NO.:

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⑤ INDICATES
SMOKE DETECTOR

1 FLOOR PLAN - 3BR RANCH
1/4" = 1'-0"



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ARCHITECTS, INC.**

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YARMOUTHPORT, MA 02675
PH 508-362-8382
FAX 508-362-

[illegible]

2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #3 ON 93 & 97 MAIN STREET
HARWICH, MA

FIRST
FLOOR
PLAN

DATE ISSUED: 12. 15. 2016

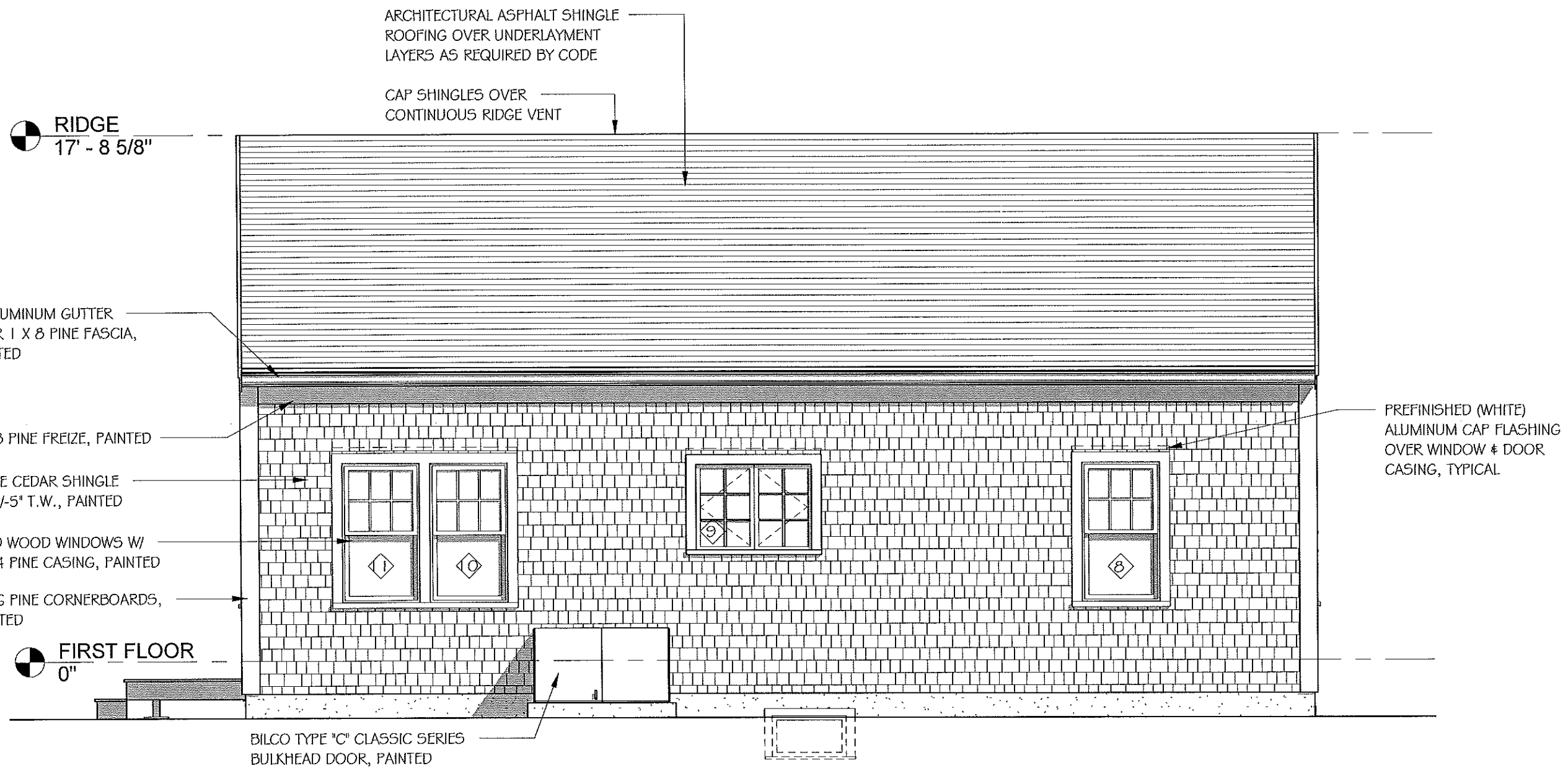
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DRAWING NO.:

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① REAR ELEVATION
1/4" = 1'-0"

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2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #3 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

REAR
ELEVATION

DATE ISSUED: 12. 15. 2016

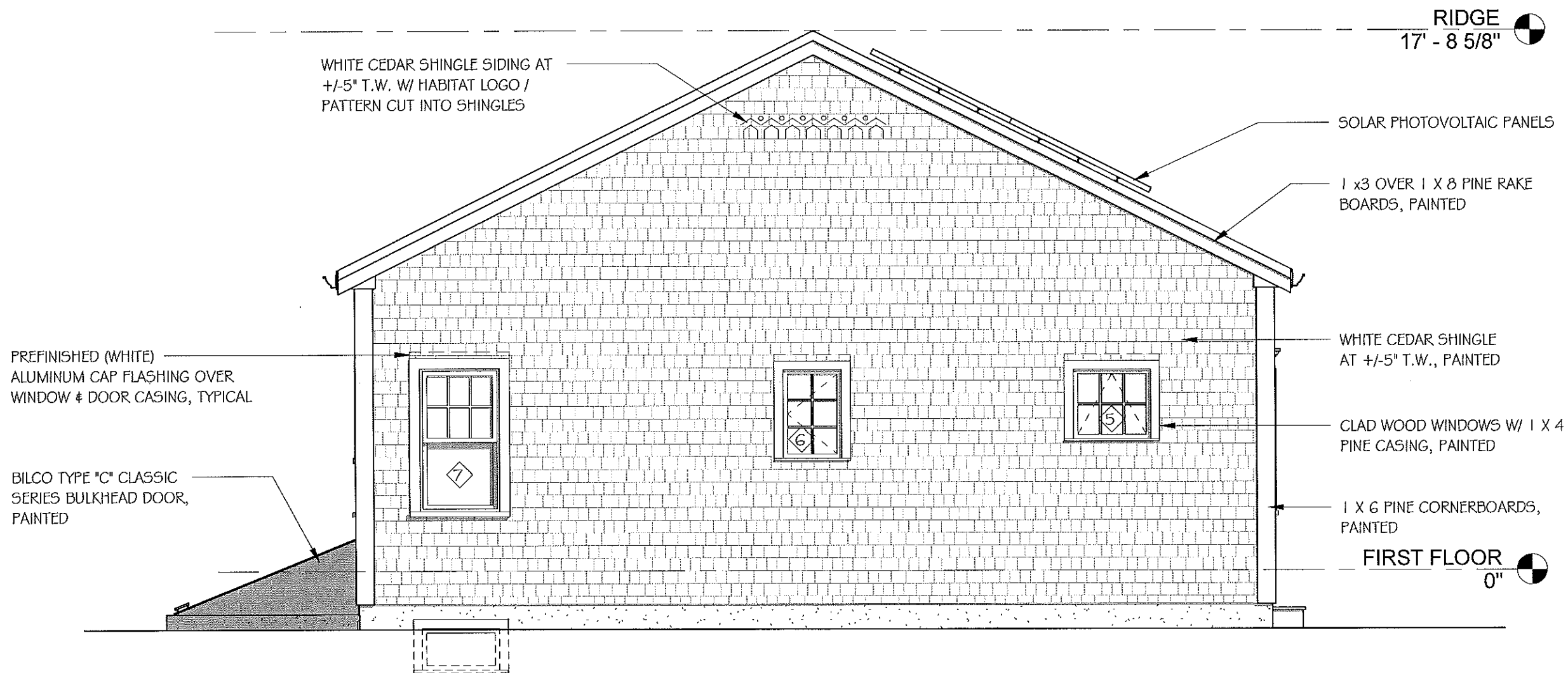
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DRAWING NO.:

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12/21/2016 8:49:44 AM
H:_Current Projects\Commercial\Habitat for Humanity of CC - 93_97 Main St. Harwich\Drawings\Current Dwgs\LOT#3_HFH_Harwich_2BR Ranch.m



① RIGHT SIDE ELEVATION
1/4" = 1'-0"

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
2828
WWW.CFARCHITECT.COM

PH 508-362-8362
FAX 508-362-

2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #3 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

RIGHT SIDE
ELEVATION

DATE ISSUED: 12. 15. 2016

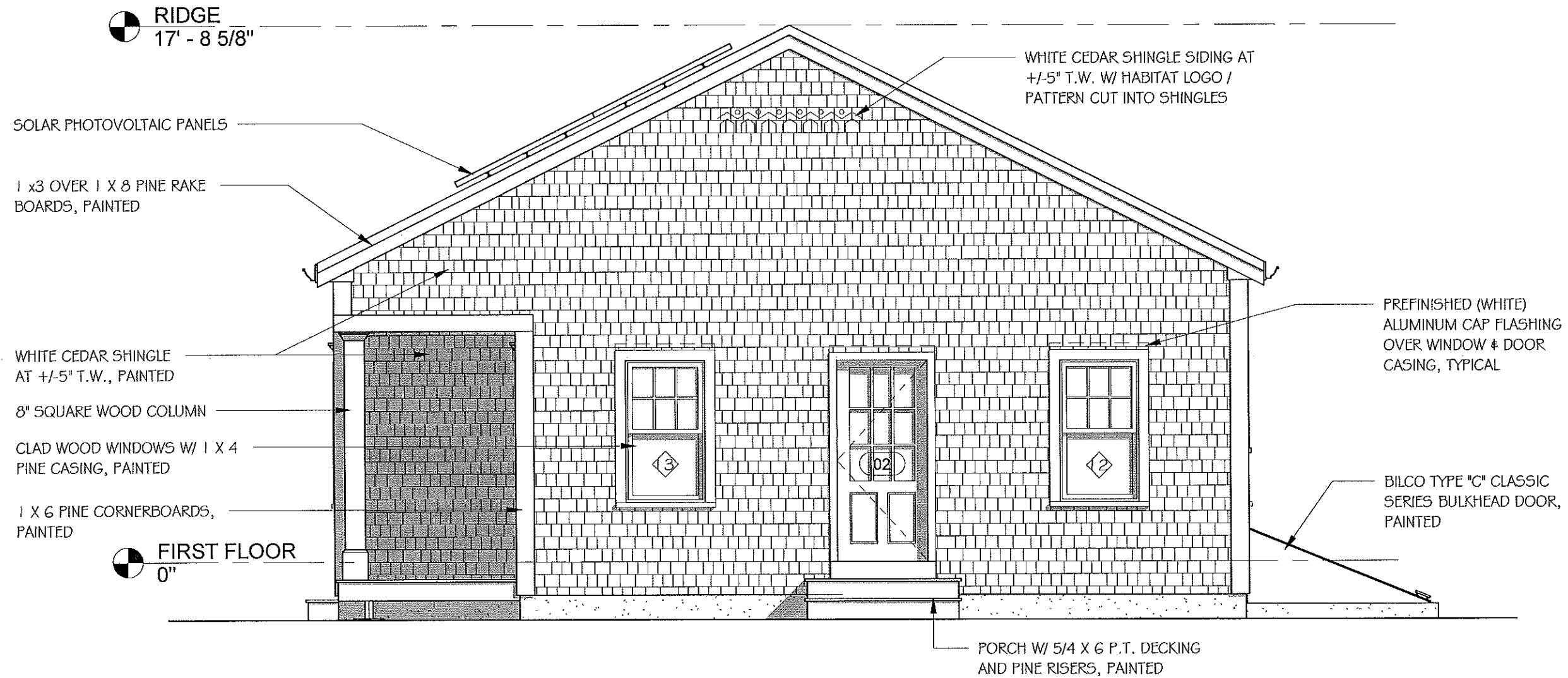
REVISIONS:

DRAWN BY:

DRAWING NO.:

A2.3

12/21/2016 8:49:46 AM
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① LEFT SIDE ELEVATION
1/4" = 1'-0"

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTH-PORT, MA 02675
PH 508-362-8382
FAX 508-362-2628
WWW.GRAARCHITECTS.COM

2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #3 ON 93 & 97 MAIN STREET
HARNWICH, MA

TITLE:

LEFT SIDE
ELEVATION

DATE ISSUED: 12. 15. 2016

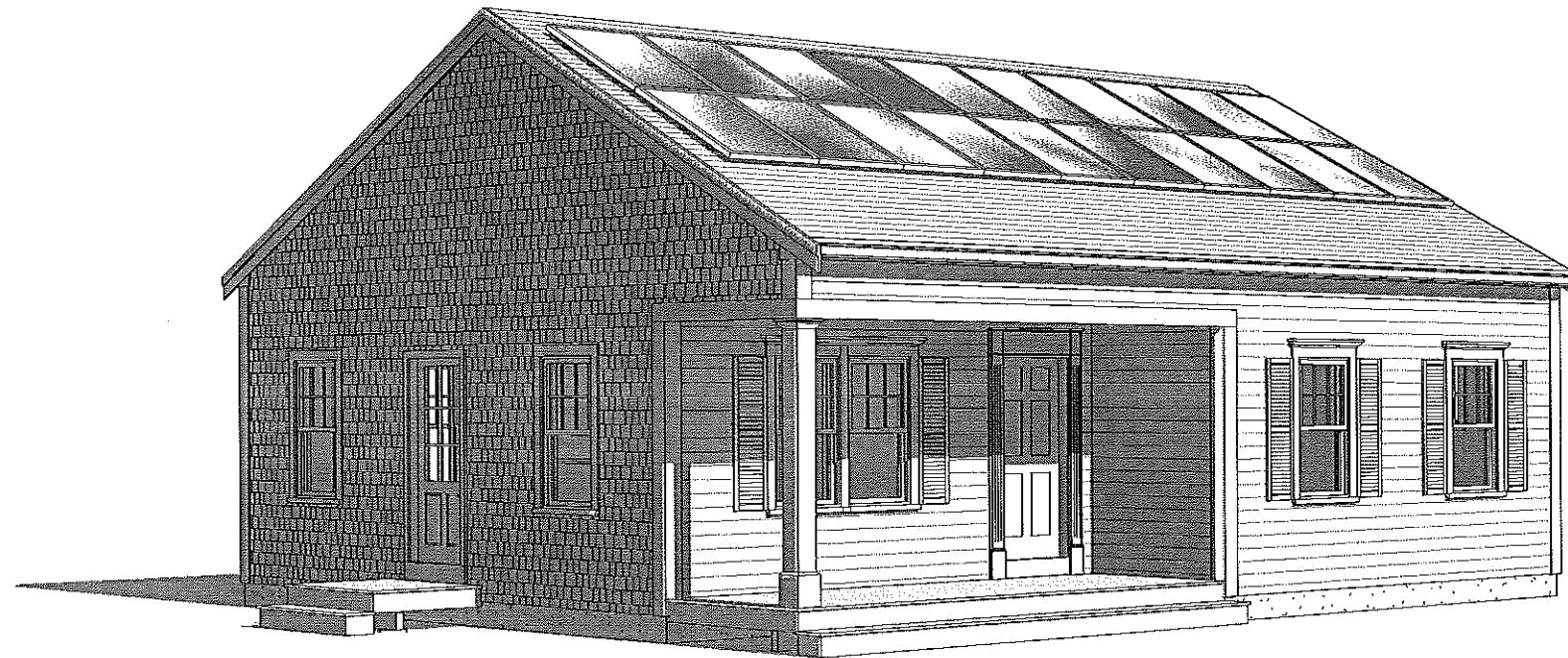
REVISIONS:

DRAWN BY:

DRAWING NO.:

A2.4

2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #4 ON 93 & 97 MAIN STREET
HARWICH, MA



ARCHITECTS

BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC.

203 WILLOW STREET SUITE A
YARMOUTHPORT, MA. 02675

93B COURT STREET, UNIT 22
PLYMOUTH, MA. 02360

TEL. (508) 362-8382
WWW.CAPEARCHITECTS.COM

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12. 15. 2016

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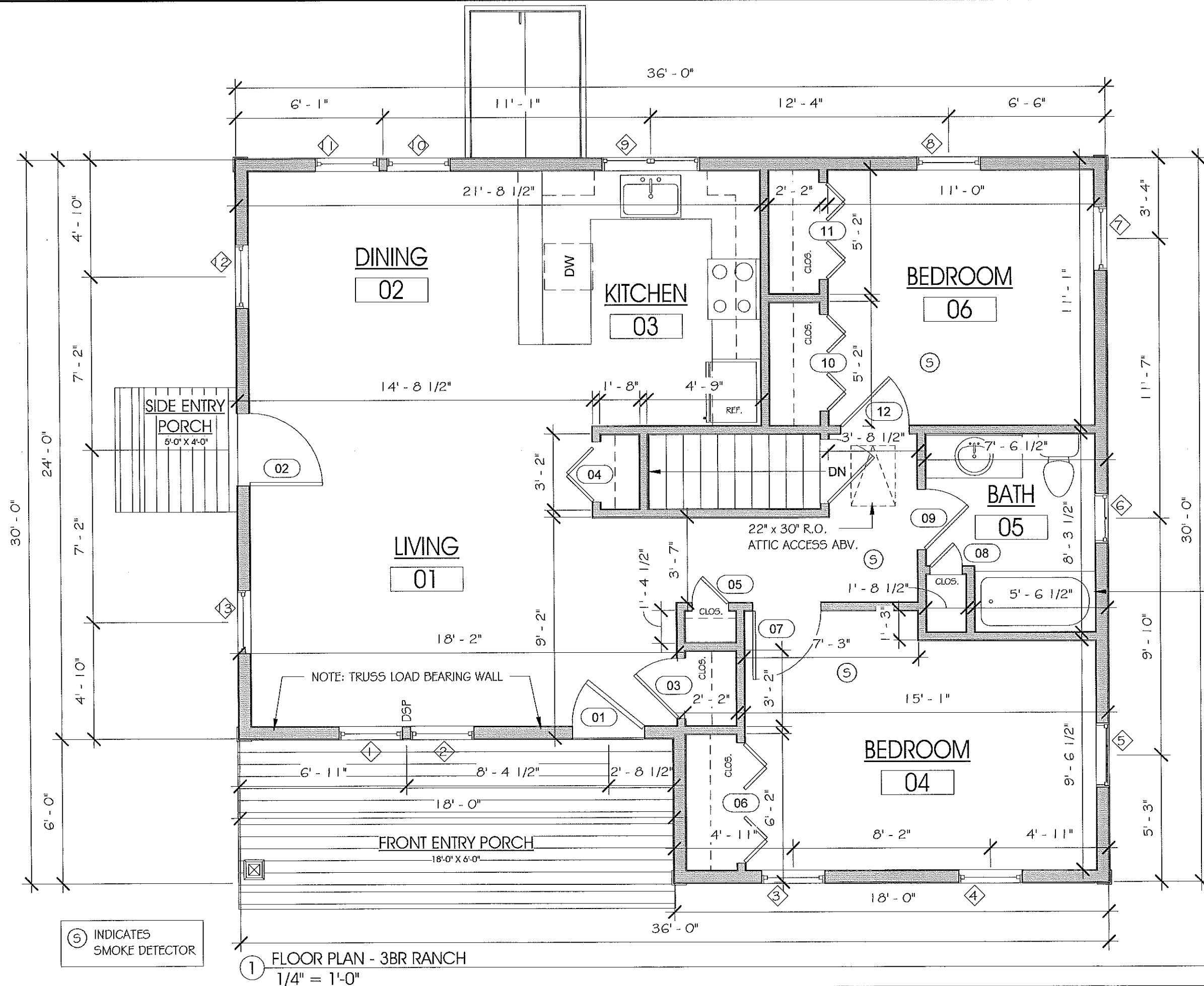
①

FOUNDATION
1/4" = 1'-0"

A1.0

12/21/2016 8:55:25 AM

H:\Current Projects\Commercial\Habitat for Humanity of CC - 93_97 Main St. HarwichDrawings\Current Dwg\LOT#4_HFH_Harwich_2BR Ranch.rvt



PROVIDE INSULATION AND HOUSE WRAP AIR BARRIER AT EXTERIOR WALL PRIOR TO INSTALLING TUB / SHOWER UNIT

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
2028
PH 508-362-8382
FAX 508-362-
WWW.CARMAHITECT.COM

2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #4 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

FIRST
FLOOR
PLAN

DATE ISSUED: 12. 15. 2016

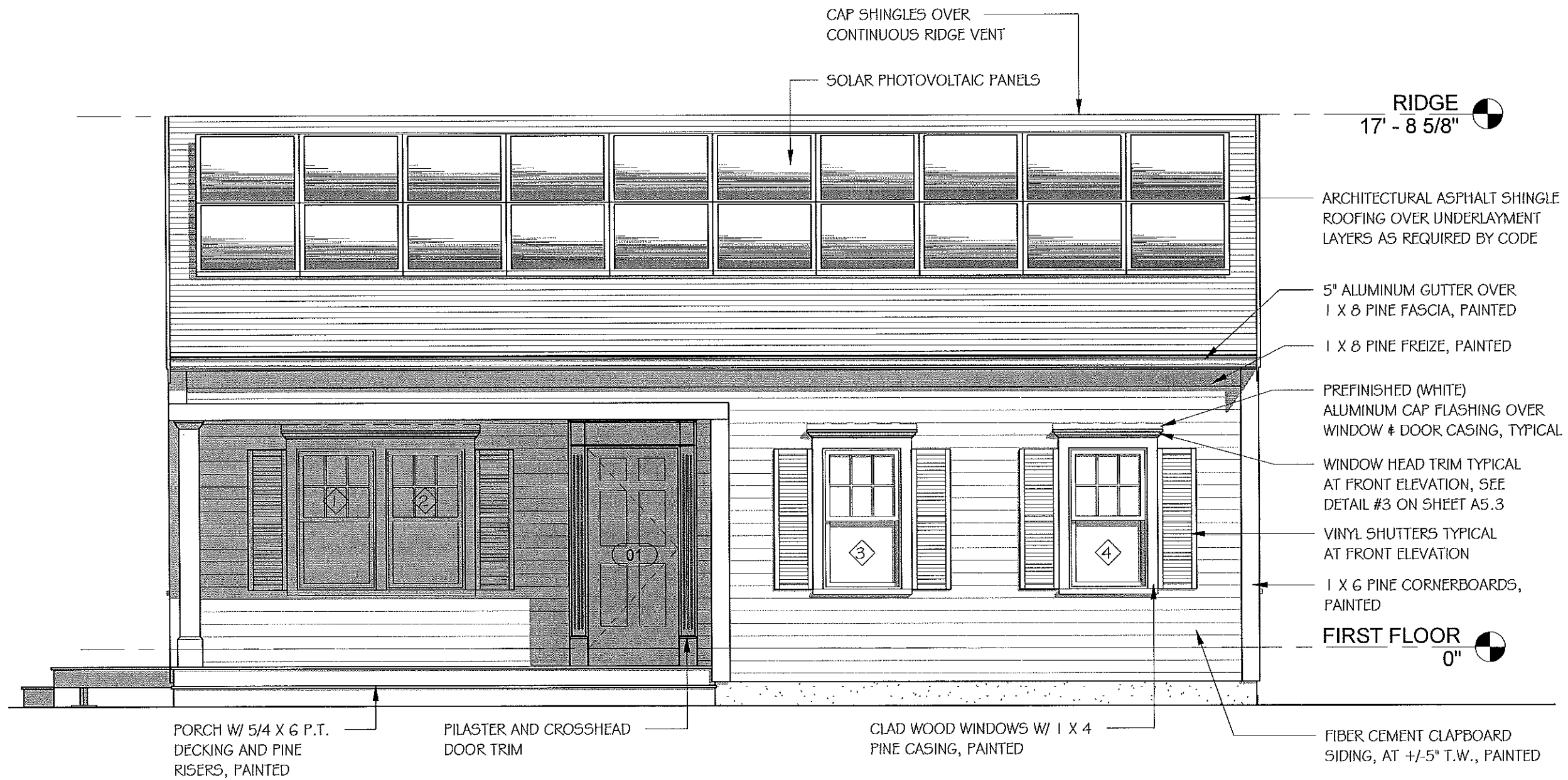
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DRAWING NO.:

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12/21/2016 8:55:28 AM
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① FRONT ELEVATION
1/4" = 1'-0"

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
2828
PH 508-362-8382
FAX 508-362-
WWW.CAPARCHITECTS.COM

2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #4 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

FRONT
ELEVATION

DATE ISSUED: 12. 15. 2016

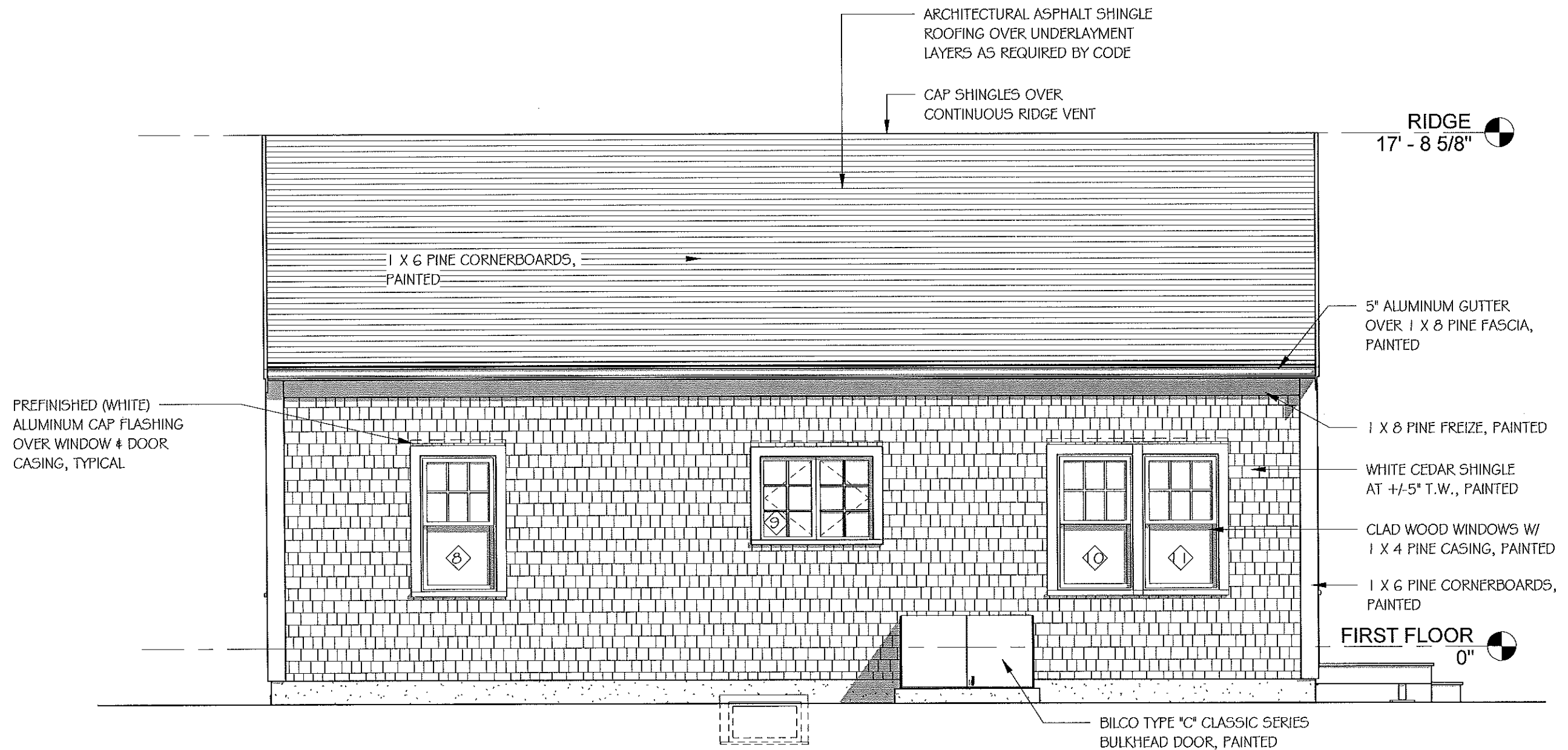
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DRAWING NO.:

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① REAR ELEVATION
1/4" = 1'-0"

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTH-PORT, MA 02675
2828
PH 508-362-8382
FAX 508-362-
WWW.CAPARCHITECTS.COM

2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #4 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:
REAR
ELEVATION

DATE ISSUED: 12. 15. 2016

REVISIONS:

DRAWN BY:

DRAWING NO.:

A2.2

RIDGE
17' - 8 5/8"

1 X 6 PINE CORNERBOARDS,
PAINTED
SOLAR PHOTOVOLTAIC PANELS

1 X 3 OVER 1 X 8 PINE RAKE
BOARDS, PAINTED

WHITE CEDAR SHINGLE
AT +/-5" T.W., PAINTED

CLAD WOOD WINDOWS W/ 1 X 4
PINE CASING, PAINTED

1 X 6 PINE CORNERBOARDS,
PAINTED

FIRST FLOOR
0"

WHITE CEDAR SHINGLE SIDING AT
+/-5" T.W. W/ HABITAT LOGO /
PATTERN CUT INTO SHINGLES

PREFINISHED (WHITE)
ALUMINUM CAP FLASHING OVER
WINDOW & DOOR CASING, TYPICAL

BILCO TYPE "C" CLASSIC
SERIES BULKHEAD DOOR,
PAINTED

1 RIGHT SIDE ELEVATION
1/4" = 1'-0"

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.

203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
2628
PH 508-362-8382
FAX 508-362-

WWW.CARMAARCHITECTS.COM

2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #4 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

RIGHT SIDE
ELEVATION

DATE ISSUED: 12. 15. 2016

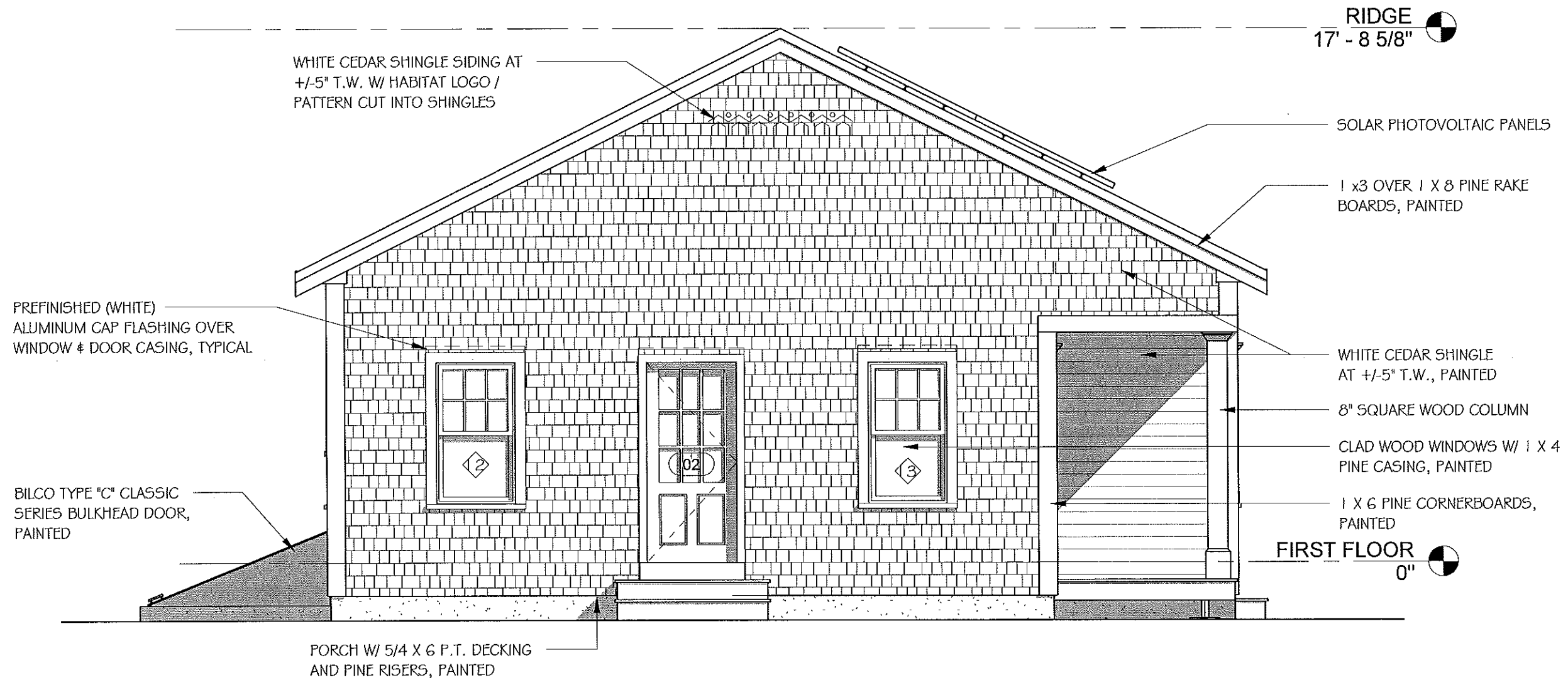
REVISIONS:

DRAWN BY:

DRAWING NO.:

A2.3

12/21/2016 8:55:38 AM
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① LEFT SIDE ELEVATION
1/4" = 1'-0"

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
PH 508-362-8382
FAX 508-362-2828
WWW.CFASARCHITECT.COM

2-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #4 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

LEFT SIDE
ELEVATION

DATE ISSUED: 12. 15. 2016

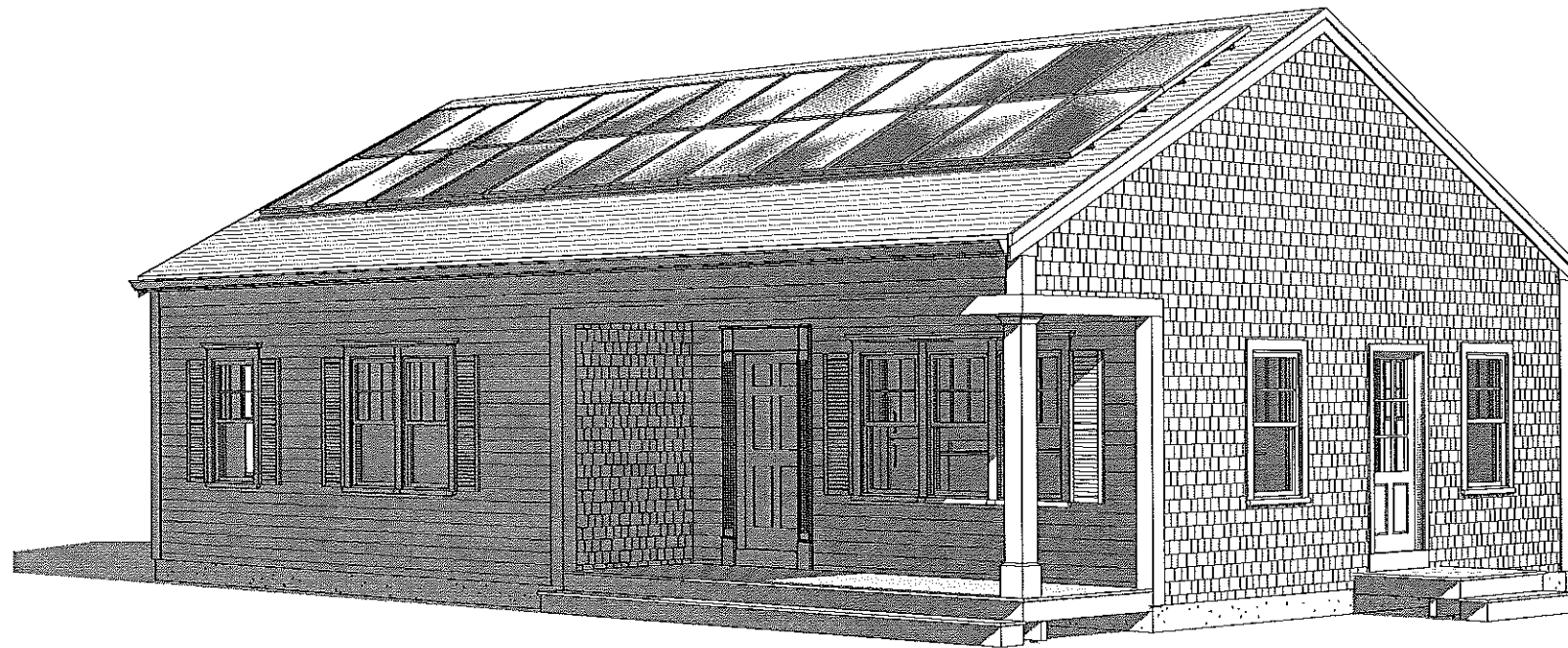
REVISIONS:

DRAWN BY:

DRAWING NO.:

A2.4

3-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT#5 ON 93-97 MAIN STREET
HARWICH, MA



ARCHITECTS

BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC.

203 WILLOW STREET SUITE A
YARMOUTHPORT, MA. 02675

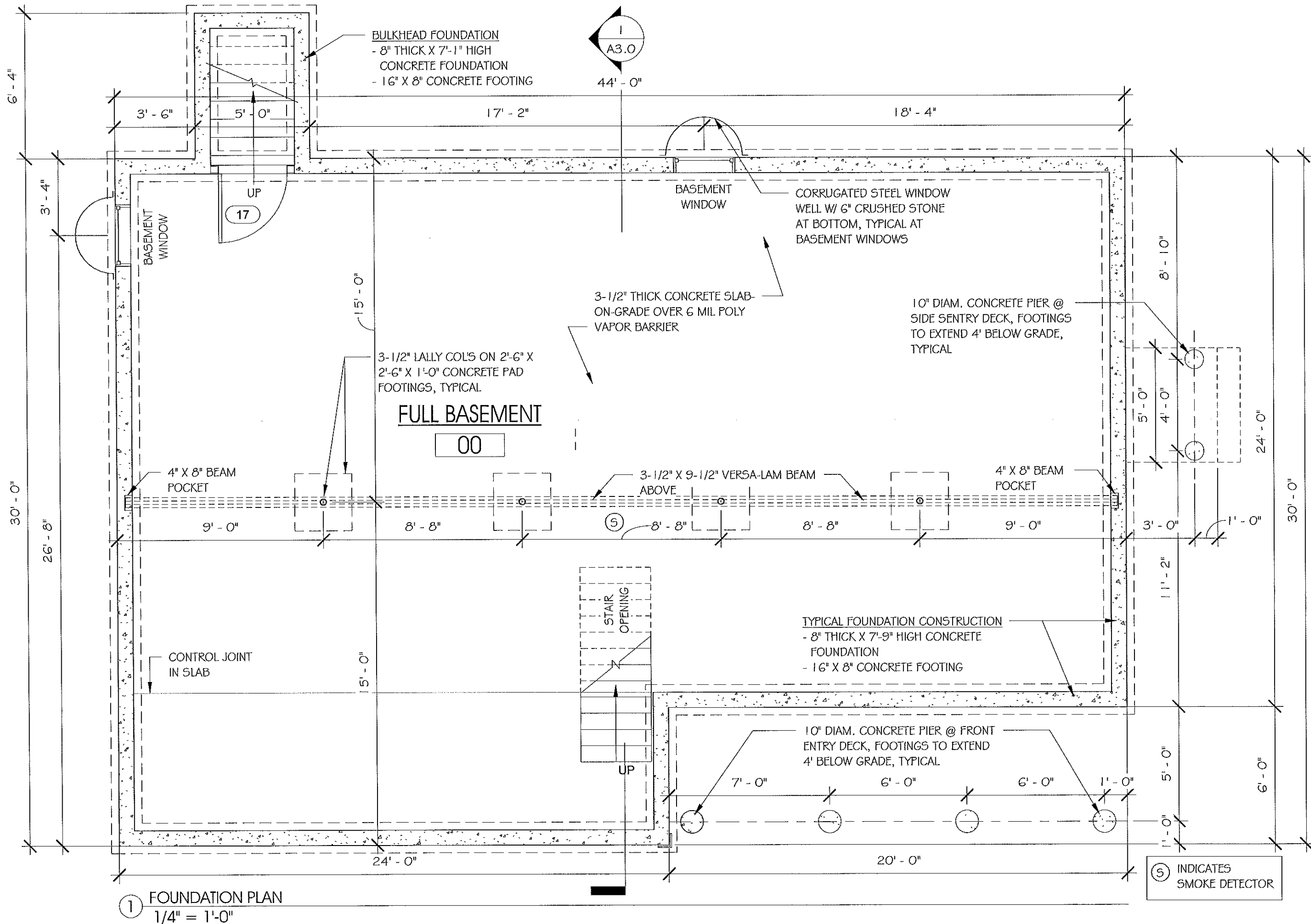
93B COURT STREET, UNIT 22
PLYMOUTH, MA. 02360

TEL. (508) 362-8382
WWW.CAPEARCHITECTS.COM

ISSUED FOR ZBA
12. 15. 2016

PRELIMINARY
NOT FOR CONSTRUCTION

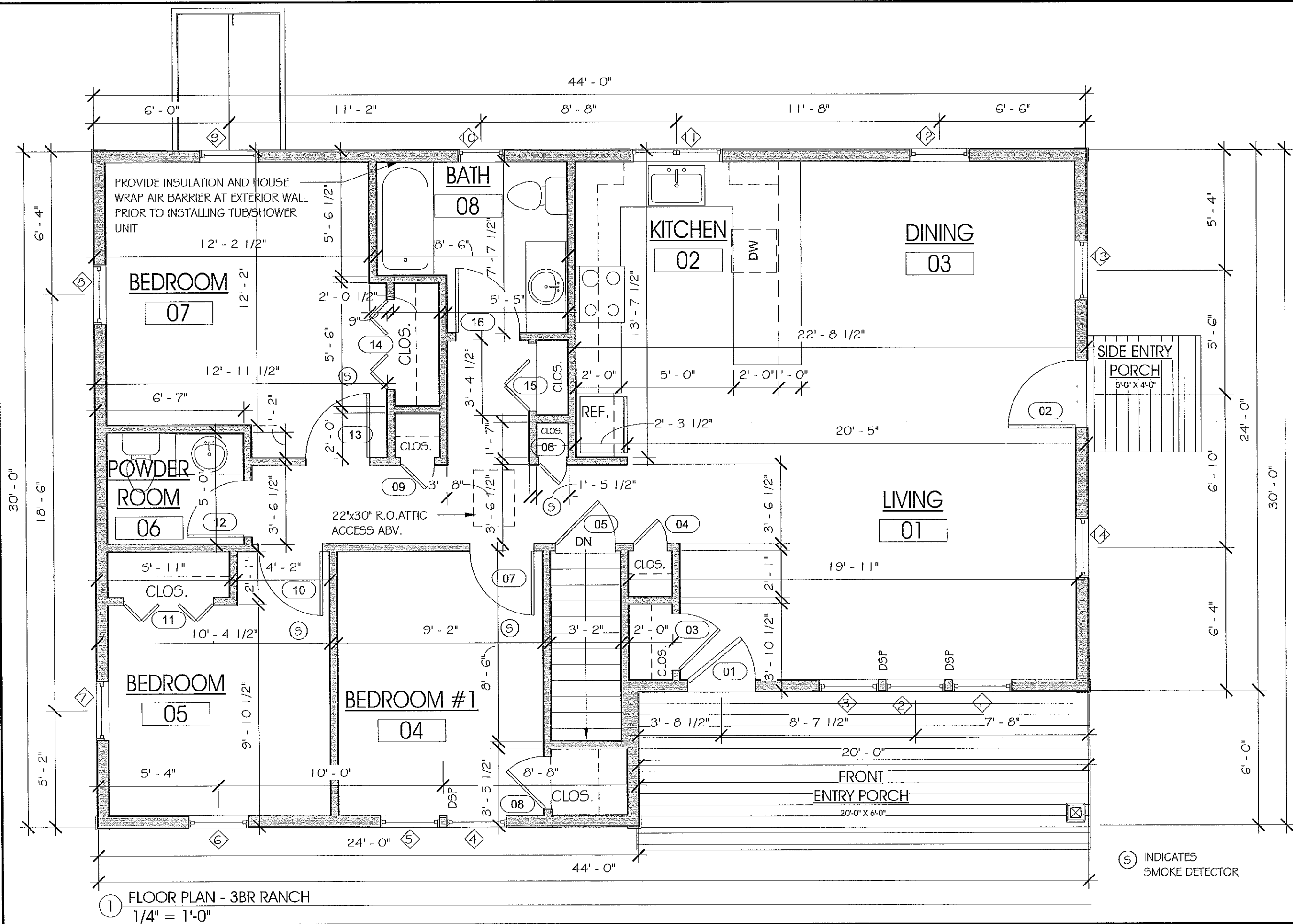
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① FOUNDATION PLAN
1/4" = 1'-0"

STAMP:	
 BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC. 203 WILLOW STREET, SUITE A YARMOUTHPORT, MA 02675 PH 508-362-8382 FAX 508-362-2828 WWW.CHANVIER23.COM	
3-BR RANCH FOR HABITAT FOR HUMANITY OF CAPE COD LOT#5 ON 93-97 MAIN STREET HARWICH, MA	
TITLE: FOUNDATION PLAN	
DATE ISSUED: 12. 15. 2016	
REVISIONS:	
DRAWN BY:	
DRAWING NO.: A1.0	

12/21/2016 8:45:36 AM
H:\Current Projects\Commercial\Habitat for Humanity of CC - 93-97 Main St. Harwich Drawings\Current Dwg\5_HFH_Harwich_3BR Ranch.rvt



1 FLOOR PLAN - 3BR RANCH
1/4" = 1'-0"

5 INDICATES
SMOKE DETECTOR

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
PH 508-362-8382
FAX 508-362-2828
WWW.CANONARCHITECT.COM

3-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT#5 ON 93-97 MAIN STREET
HARWICH, MA

TITLE:
FIRST
FLOOR
PLAN

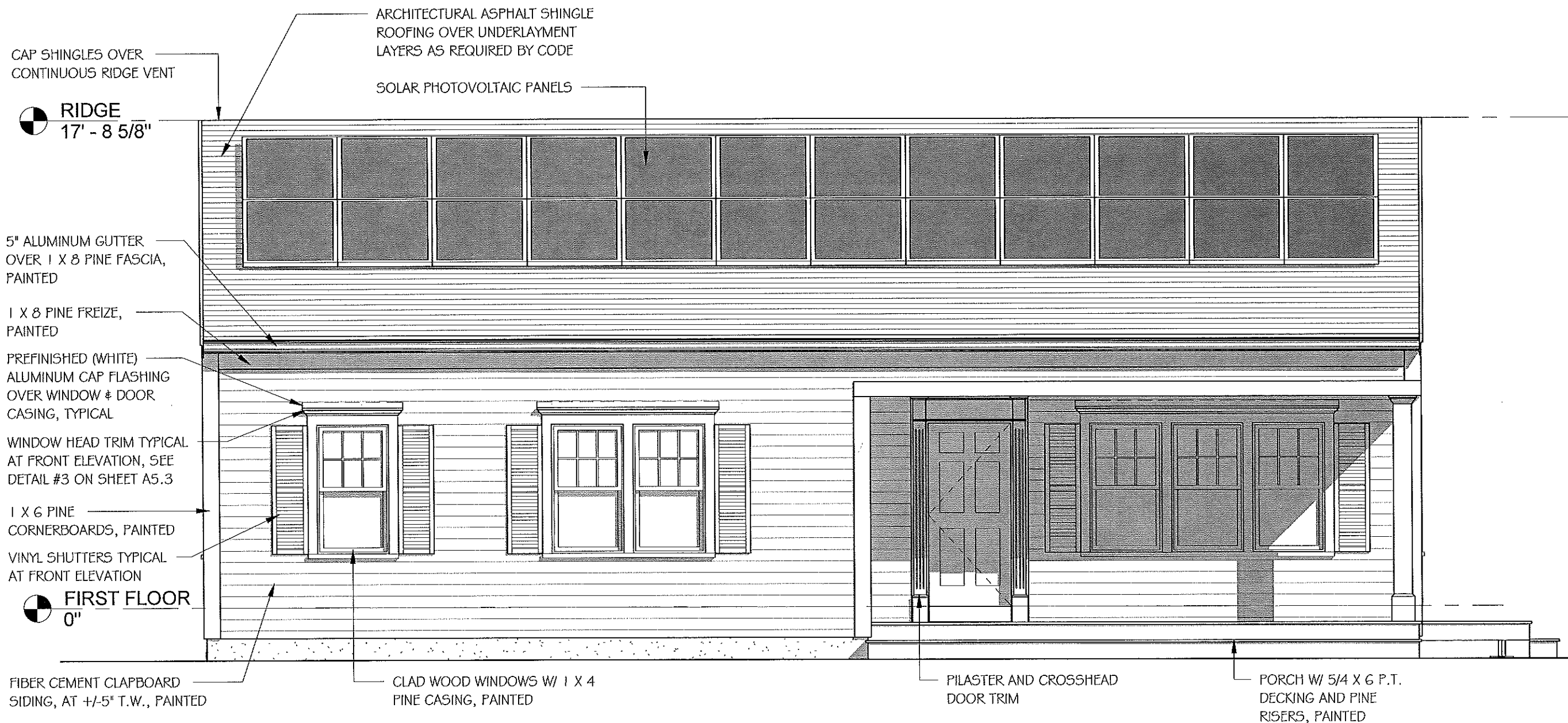
DATE ISSUED: 12. 15. 2016

REVISIONS:

DRAWN BY:

DRAWING NO.:
A1.1

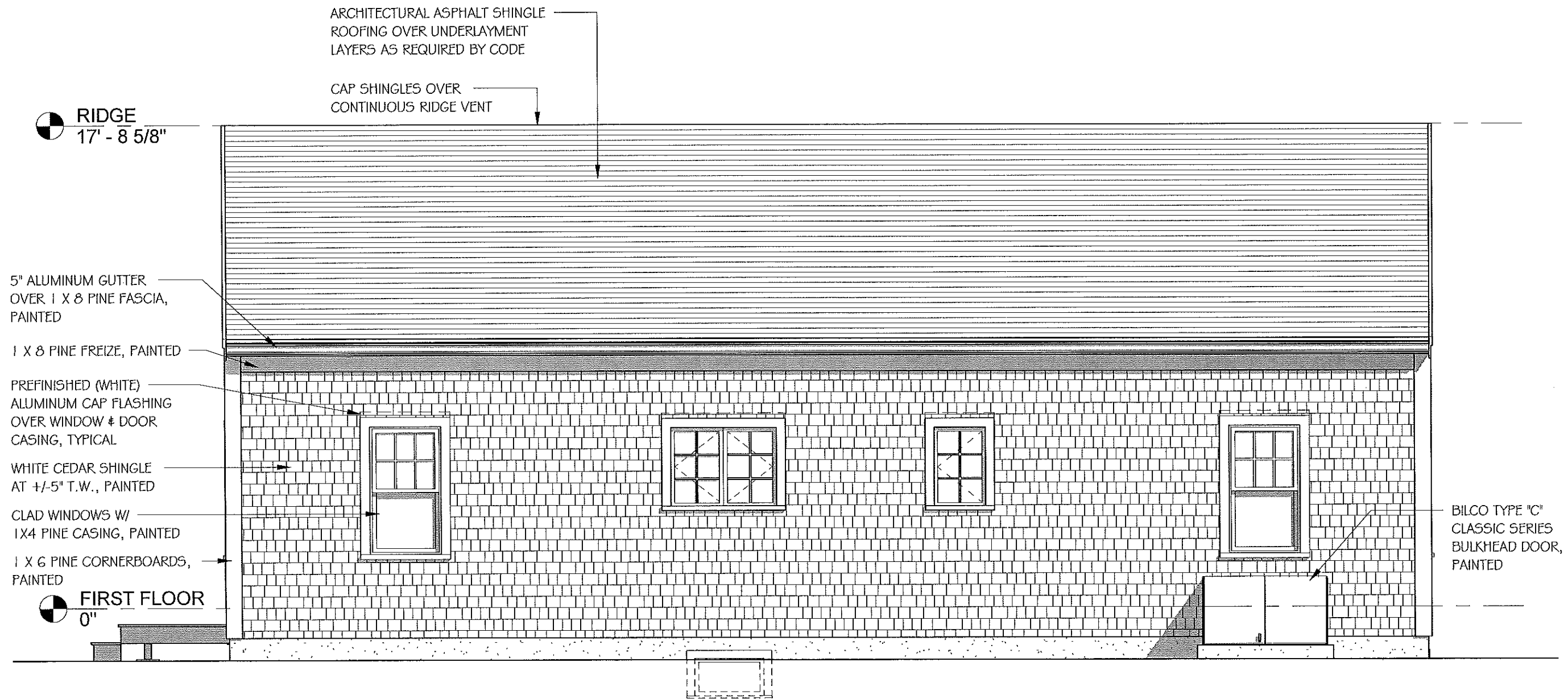
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① FRONT ELEVATION
1/4" = 1'-0"

STAMP:	
 BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC. 203 WILLOW STREET, SUITE A YARMOUTHPORT, MA 02675 PH 508-362-8392 FAX 508-362-2628 WWW.GARNAHARCHITECTS.COM	
3-BR RANCH FOR HABITAT FOR HUMANITY OF CAPE COD LOT#5 ON 93-97 MAIN STREET HARWICH, MA	
TITLE: FRONT ELEVATION	
DATE ISSUED: 12. 15. 2016	
REVISIONS:	
DRAWN BY:	
DRAWING NO.: A2.1	

12/21/2016 8:45:41 AM
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① REAR ELEVATION
1/4" = 1'-0"

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
PH 508-362-8382
FAX 508-362-2828
WWW.CASABRIDGE.COM

3-BR RANCH FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT#5 ON 93-97 MAIN STREET
HARWICH, MA

TITLE:
REAR
ELEVATION

DATE ISSUED: 12. 15. 2016

REVISIONS:

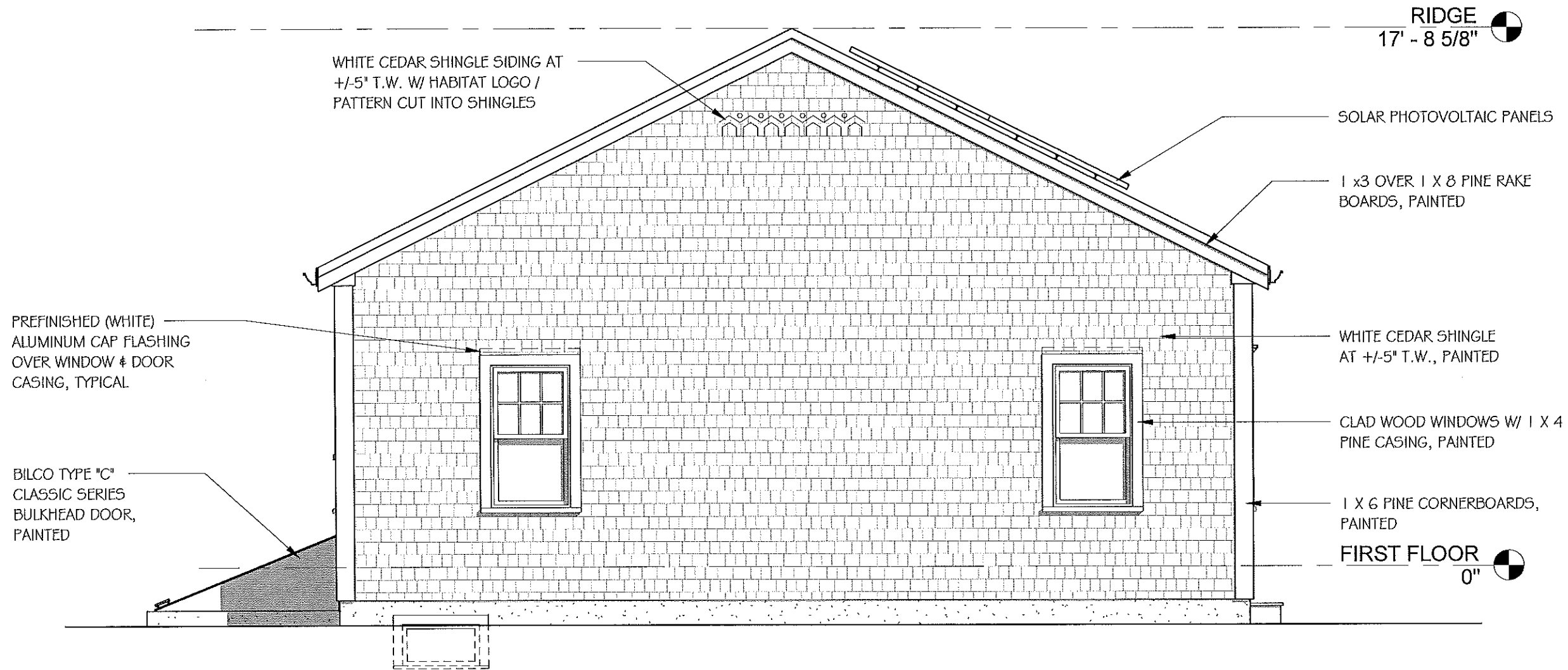
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DRAWING NO.:

A2.2

12/21/2016 8:45:59 AM

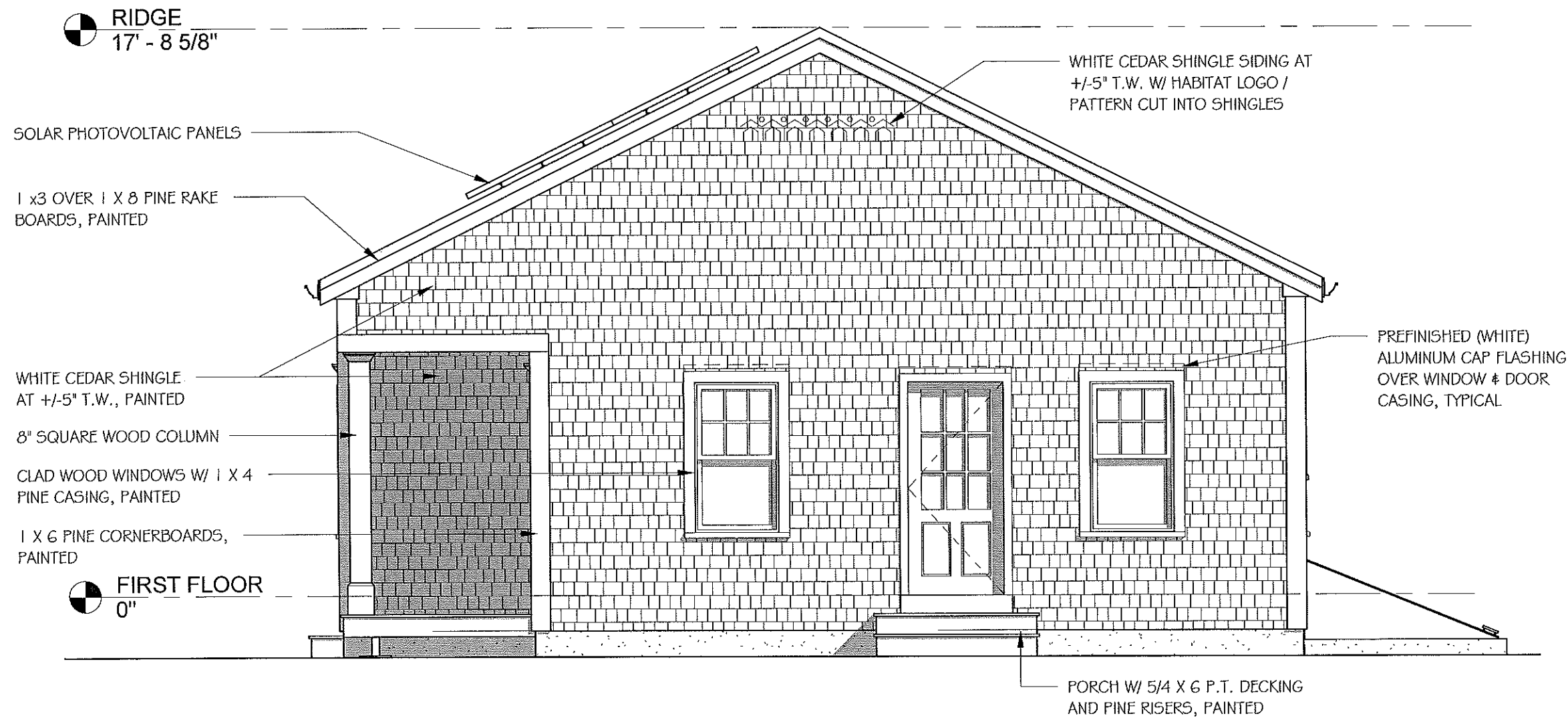
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① LEFT SIDE ELEVATION
1/4" = 1'-0"

STAMP:	
BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC. 203 WILLOW STREET, SUITE A YARMOUTHPORT, MA 02675 2828 PH 508-362-8382 FAX 508-362- WWW.CRAARCHITECTS.COM	
3-BR RANCH FOR HABITAT FOR HUMANITY OF CAPE COD LOT#5 ON 93-97 MAIN STREET HARWICH, MA	
TITLE: LEFT SIDE ELEVATION	
DATE ISSUED: 12. 15. 2016	
REVISIONS:	
DRAWN BY:	
DRAWING NO.: A2.3	

12/21/2016 8:46:03 AM
H:_Current Projects\Commercial\Habitat for Humanity of CC - 93_97 Main St. HarwichDrawings\Current Dwgs\LOT#5_HFH_Harwich_3BR Ranch.mxd



① RIGHT SIDE ELEVATION
1/4" = 1'-0"

3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #6 ON 93 & 97 MAIN STREET
HARWICH, MA



ARCHITECTS

BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC.

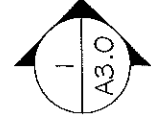
203 WILLOW STREET SUITE A
YARMOUTHPORT, MA. 02675

93B COURT STREET, UNIT 22
PLYMOUTH, MA. 02360

TEL. (508) 362-8382
WWW.CAPEARCHITECTS.COM

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①

DRAWN BY:

DRAWING NO.:

TITLE:
FOUNDATION
PLAN

3-BR CAPE FOR

LOT #6 ON 93 & 97 MAIN STREET

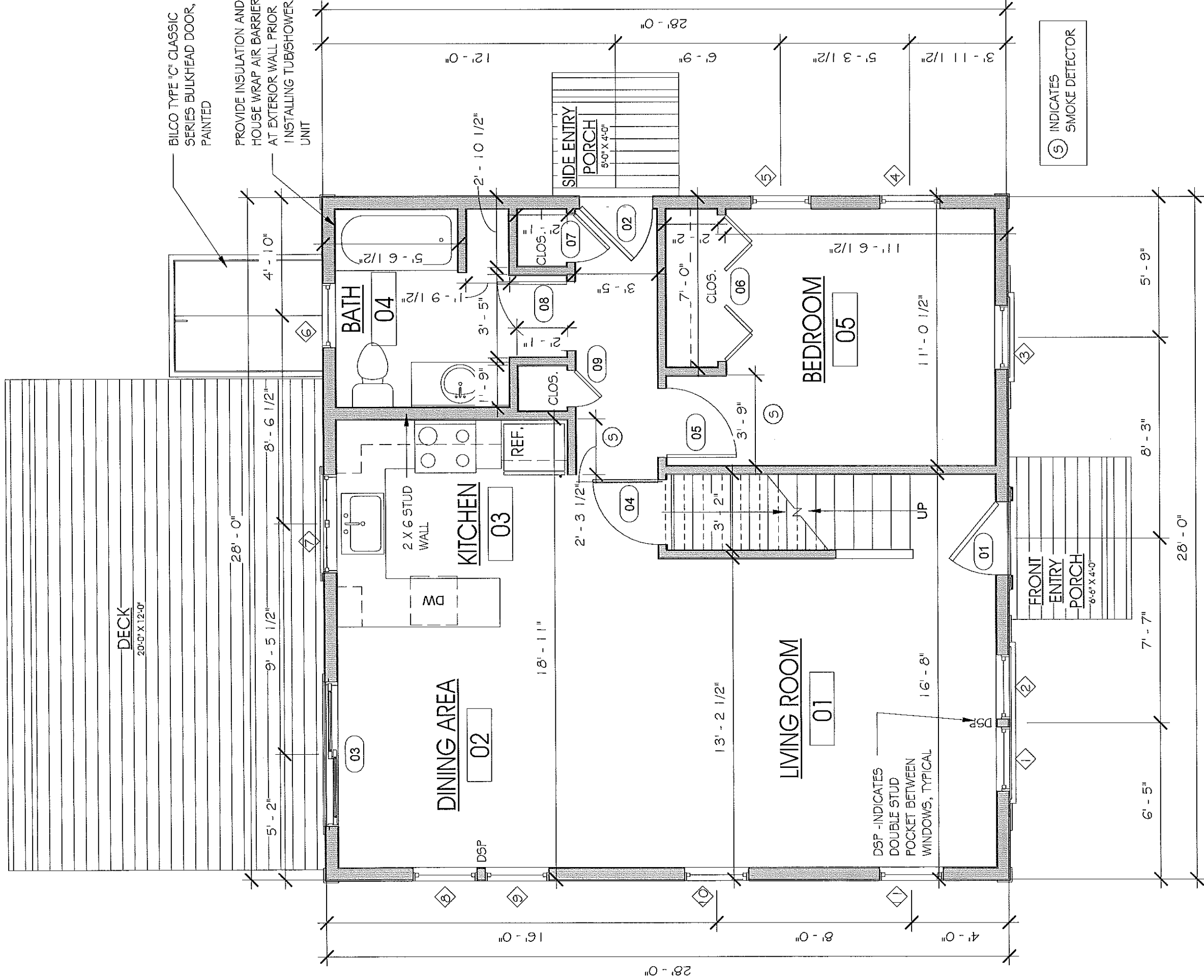
203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675

WWW.CAFÉARCHITECTS.COM



BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.

203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
PH 508-362-8382
FAX 508-362-



1 FIRST FLOOR PLAN
1/4" = 1'-0"

3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #6 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:
FIRST
FLOOR
PLAN

DATE ISSUED: 12. 15. 2016

REVISIONS:

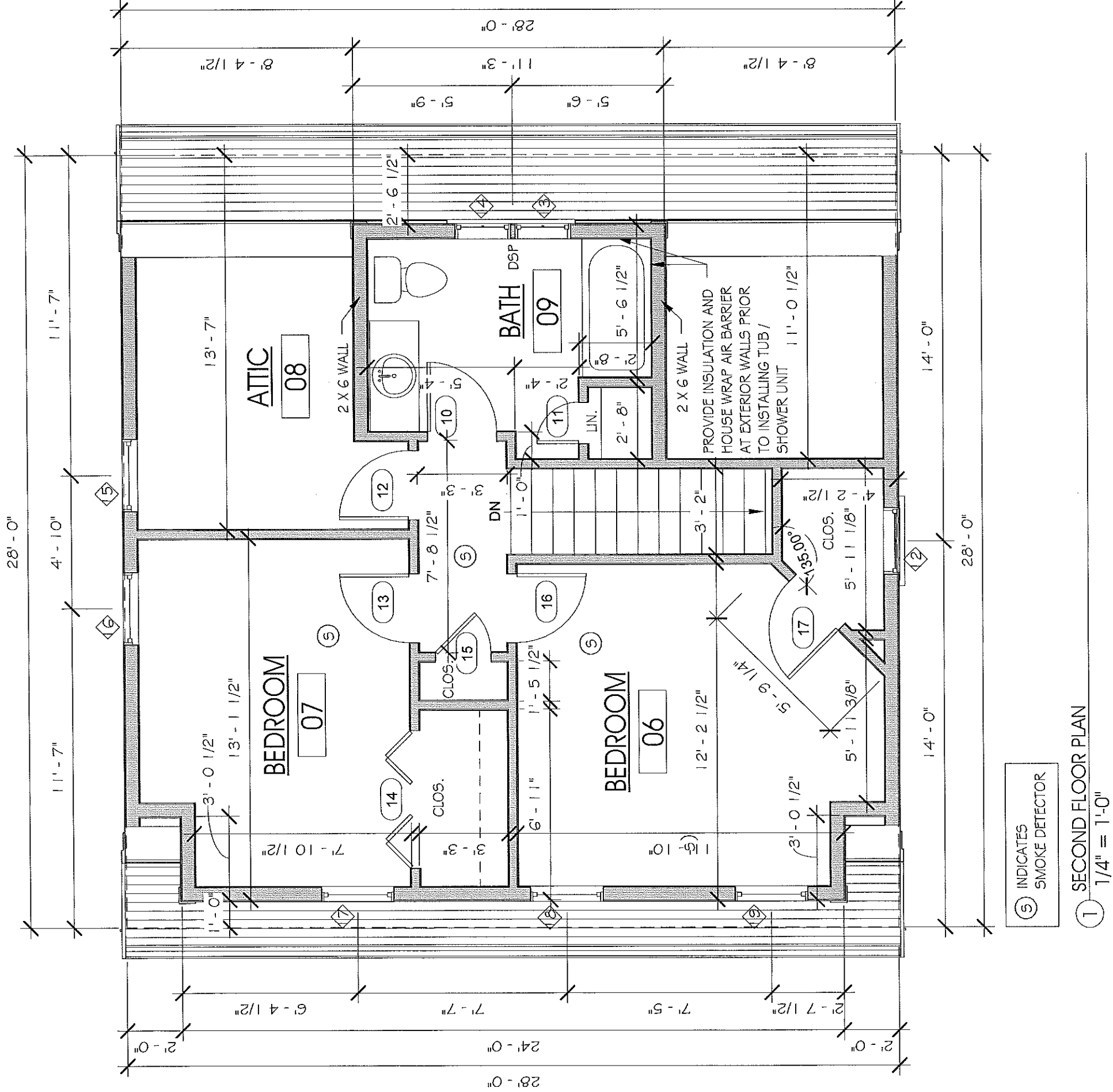
DRAWN BY:

DRAWING NO.:

A1.1

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARVOUTHPORT, MA 02675
2628
PH 508-362-8382
FAX 508-362-
WWW.CAPARTIST.COM

STAMP:



STAMP:	
BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC. 203 WILLOW STREET, SUITE A YARMOUTHPORT, MA 02675 PH 508-362-8382 FAX 508-362-2825 WWW.CHARMERTECH.COM	
3-BR CAPE FOR HABITAT FOR HUMANITY OF CAPE COD LOT #6 ON 93 & 97 MAIN STREET HARWICH, MA	
TITLE:	SECOND FLOOR PLAN
DATE ISSUED:	12. 15. 2016
REVISIONS:	
DRAWN BY:	
DRAWING NO.:	A1.2

12/21/2016 9:08:40 AM
H:_Current Projects\Commercial\Habitat for Humanity of CC - 93-97 Main St. Harnwich\Drawings\Current Dwg\LOT#6_HFH_Harnwich_3BR CAPE TYPE B.MV



① FRONT ELEVATION
1/4" = 1'-0"

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARVOUTHPORT, MA 02675
PH 508-362-8382
FAX 508-362-2828
WWW.CPAARCHITECT.COM

3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #6 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:
FRONT
ELEVATION

DATE ISSUED: 12. 15. 2016

REVISIONS:

DRAWN BY:

DRAWING NO.:

A2.1

12/21/2016 9:08:43 AM
H:\Current Projects\Commercial\Habitat for Humanity of CC - 93 - 97 Main St, Harwich\Drawings\Current Dwgs\LOT#6_HFH_Harwich_3BR CAPE TYPE B.M

RIDGE
21' - 4 1/2"

ALUMINUM STEP FLASHING TO
EXTEND BEHIND SIDING AND
ALTERNATE WITH SHINGLE COURSES

1 X3 OVER 1 X 8 PINE RAKE
BOARDS, PAINTED

SECOND FLOOR
8' - 11 1/8"

WINDOW HEAD TRIM TYPICAL AT
FRONT ELEVATION, SEE DETAIL #
3 ON SHEET A5.3

CLAD WOOD WINDOWS W/
1 X 4 PINE CASING, PAINTED

BILCO TYPE "C" CLASSIC SERIES
BULKHEAD DOOR, PAINTED

FIRST FLOOR
0"

FRONT PORCH W/ 5/4" X 6
P.T. DECKING AND PINE
RISERS, PAINTED

1 REAR ELEVATION
1/4" = 1'-0"

DECK W/ 5/4" X 6 P.T. DECKING
AND PINE RISERS, PAINTED

SOLAR PHOTOVOLTAIC PANELS

WHITE CEDAR SHINGLE
AT +/-5" T.W., PAINTED W/ HABITAT
LOGO / PATTERN CUT INTO SHINGLES

WHITE CEDAR SHINGLE
AT +/-5" T.W., PAINTED

1 X 6 PINE CORNERBOARDS,
PAINTED

SLIDING GLASS DOOR -SEE
DOOR SCHEDULE W/ 1 X 4
PINE CASING, PAINTED

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
PH 508-362-8362
FAX 508-362-
WWW.CHARBONCEL.COM

3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #6 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

REAR
ELEVATION

DATE ISSUED: 12. 15. 2016

REVISIONS:

DRAWN BY:

DRAWING NO.:

A2.2



STAMP:

BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
PH 508-362-8382
FAX 508-362-2826
WWW.CLRARCHITECT.COM

3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #6 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

RIGHT SIDE
ELEVATION

DATE ISSUED: 12. 15. 2016

REVISIONS:

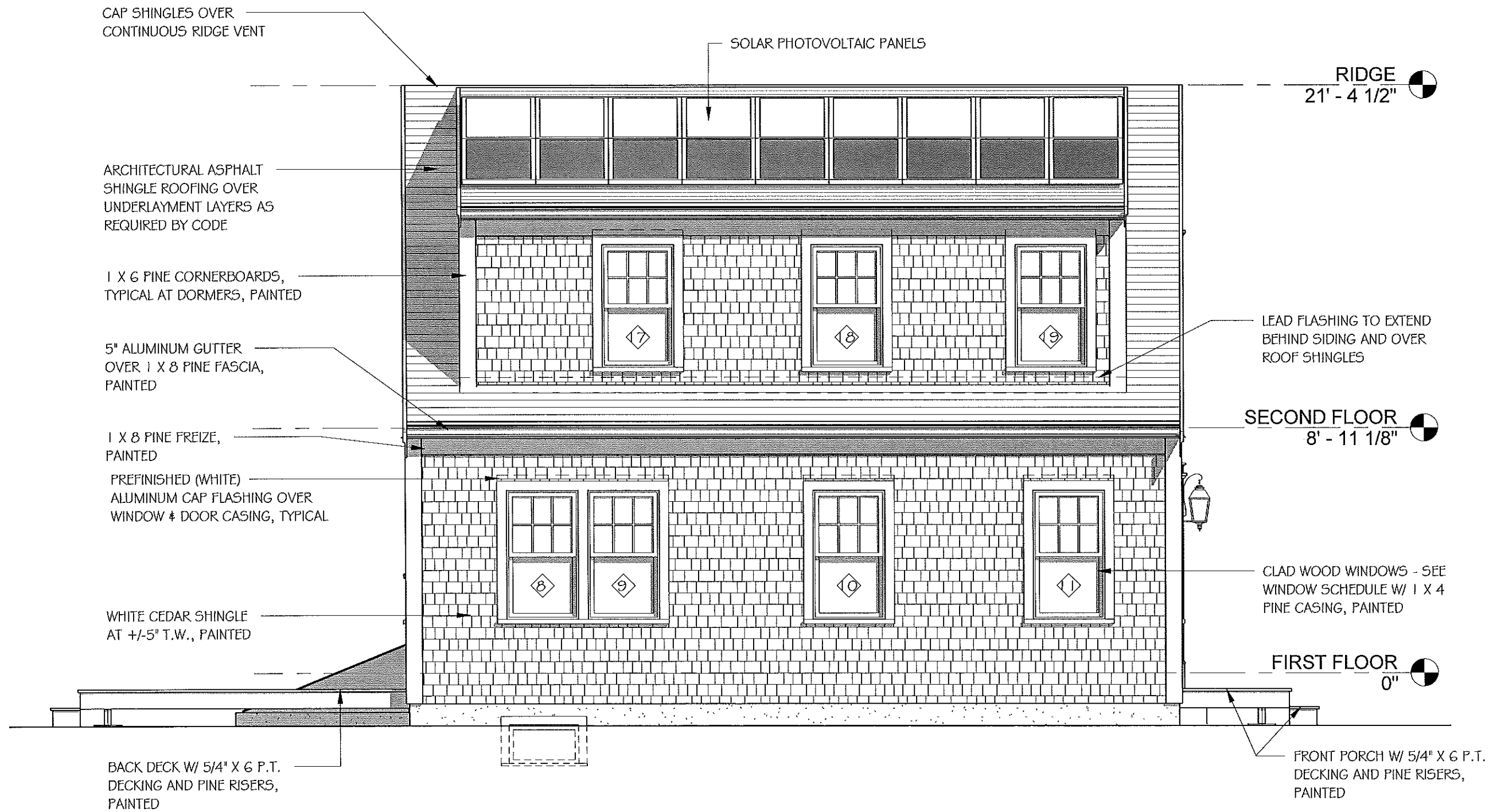
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DRAWING NO.:

A2.3

12/21/2016 9:08:47 AM

H:\Current Projects\Commercial\Habitat for Humanity of CC - 93_97 Main St. Harwich\Drawings\Current Dwgs\LOT#6_FFH_Harwich_3BR CAPE TYPE B.M



1 LEFT SIDE ELEVATION
1/4" = 1'-0"

STAMP:

BROWN LINDQUIST FENUCCIO & RABER
ARCHITECTS, INC.
203 WILLOW STREET, SUITE A
YARMOUTHPORT, MA 02675
PH 508-362-8382
FAX 508-362-2828
WWW.CADWAPRINTS.COM

3-BR CAPE FOR
HABITAT FOR HUMANITY OF CAPE COD
LOT #6 ON 93 & 97 MAIN STREET
HARWICH, MA

TITLE:

LEFT SIDE
ELEVATION

DATE ISSUED: 12. 15. 2016

REVISIONS:

DRAWN BY:

DRAWING NO.:

A2.4

From the office of
Kate Mitchell, Attorney at Law
761 Main Street (Rt. 6A),
West Barnstable, MA 02668
Tel: 508-362-1369
Email: katemitchell@comcast.net

PURCHASE AND SALE AGREEMENT

This 3rd day of October 2016.

1. PARTIES AND MAILING ADDRESSES

Harwich Ecumenical Council for the Homeless, Inc. ("HECH")
120 Route 28, 3rd Floor, West Harwich, MA 02671

hereinafter called the **SELLER**, agrees to SELL and

Habitat for Humanity of Cape Cod, Inc.
411 Main Street, Suite 6, Yarmouthport, MA 02675

hereinafter called the **BUYER** or **PURCHASER**, agrees to BUY, upon the terms hereinafter set forth, the following described premises:

2. DESCRIPTION

1.75 acres, more or less, of vacant land in Harwich, MA, consisting of the back portion of 93 Main Street (Route 28) and the back portion of 97 Main Street, and including an area of vacant land of the front westerly portion of the 93 Main Street parcel running from Rt. 28 to the back portions of the property with sufficient frontage and area to be the access road for the back portions (the "Premises")

The property as a whole is described in two deeds both dated May 16, 2006 and recorded with the Barnstable Registry of Deeds in Book 21083 Page 22 and Book 21083 Page 20 respectively ("the Property" or individually, "Parcel(s)").

The Premises to be conveyed is more particularly described as Lots 1, 2, 3, 4, 5, and 6, and include an access road/driveway with cul-de-sac as shown on a draft plan entitled "Site Plan of #93 & #97 Main Street, West Harwich prepared for Habitat for Humanity" dated September 15, 2016 by down cape engineering, inc. (the "Plan"). The Plan is attached hereto as Exhibit A and made a part hereof.

The Property is to be subdivided as shown on said Plan, or some similar draft Plan approved by the Harwich Board of Appeals, the final Plan separating Lots #7

Purchase & Sales Agreement

RE: A portion of 93 and 97 Main Street (Route 28), West Harwich, MA

SELLER: Harwich Ecumenical Council for the Homeless, Inc.

BUYER: Habitat for Humanity of Cape Cod, Inc.

Page 2 of 15

(# 97 Main St.) and Lot #8 (#93 Main St.) with the buildings thereon, such Lots not to be sold as a part of this Agreement.

premises is vacant land

3. TITLE DEED

Said premises are to be conveyed by a good and sufficient quitclaim deed running to the BUYER, or to the nominee designated by the BUYER by written notice to the SELLER at least seven (7) days before the deed is to be delivered as herein provided, and said deed shall convey a good and clear record and marketable title thereto, free from encumbrances, except:

- (a) Provisions of existing building and zoning laws;
- (b) Existing rights and obligations in party walls which are not the subject of written agreement;
- (c) Such taxes for the then current year as are not due and payable on the date of the delivery of such deed;
- (d) Any liens for municipal betterments assessed after the date of this agreement;
- (e) Easements, restrictions and reservations of record, if any, so long as the same do not, or could not be used in such a way as to, prohibit or materially interfere with the use of said premises as a six lot affordable housing subdivision.

4. PLANS

As said deed will refer to a subdivision plan necessary to be recorded therewith, the SELLER and BUYER, in cooperation, shall seek the approval and endorsement of the Town of Harwich Board of Appeals such subdivision plan to be in a form adequate for recording or registration for delivery with delivery of the Deed.

5. PURCHASE PRICE

The agreed purchase price for said premises is **Two Hundred and Forty Thousand and 00/100 (\$240,000.00) Dollars** (See paragraph 17), of which

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\$	1.00	has been paid as a deposit with Offer and
\$	00.00	is to be paid as an additional deposit upon execution
		of Purchase and Sale Agreement
\$	239,999.00	are to be paid at the time of delivery of the deed by
		certified, cashier's, treasurer's or bank check(s), or
		Settlement Agent's IOLTA check or wire transfer.
\$	240,000.00	TOTAL

6. REGISTERED TITLE

In addition to the foregoing, if the title to said premises is registered, said deed shall be in form sufficient to entitle the BUYER to a Certificate of Title of said premises, and the SELLER shall deliver with said deed all instruments, if any, necessary to enable the BUYER to obtain such Certificate of Title.

7. TIME FOR PERFORMANCE; DELIVERY OF DEED

A good and sufficient Deed, conveying a good, clear and marketable title of record shall be delivered within fourteen (14) days from written notice from Buyer to Seller of the satisfaction of all of the contingencies set forth in paragraph 38 hereof, but no later than September 18, 2018, at the office of Buyer's counsel or the Barnstable County Registry of Deeds, unless otherwise agreed upon in writing. It is agreed that time is of the essence of this agreement.

8. POSSESSION AND CONDITION OF PREMISE

Full possession of said premises free of all tenants and occupants except as herein provided, is to be delivered at the time of the delivery of the deed, said premises to be then (a) in the same condition as they now are, reasonable use and wear thereof excepted, and (b) not in violation of said building and zoning laws, and (c) in compliance with provisions of any instrument referred to in clause 4 hereof. The BUYER shall be entitled personally to inspect said premises prior to the delivery of the deed in order to determine whether the condition thereof complies with the terms of this clause.

9. EXTENSION TO PERFECT TITLE OR MAKE PREMISES CONFORM

If the SELLER shall be unable to give title or to make conveyance, or to deliver possession of the premises, all as herein stipulated, or if at the time of the

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delivery of the deed the premises do not conform with the provisions hereof, then the SELLER shall use reasonable efforts to remove any defects in title, or to deliver possession as provided herein, or to make the said premises conform to the provisions hereof, as the case may be, and thereupon the time for performance hereof shall be extended for a period of thirty (30) days. The SELLER shall not have to spend more than \$1,000.00 to satisfy the provisions of this Paragraph 9, exclusive of institutional mortgages.

10. FAILURE TO PERFECT TITLE OR MAKE PREMISES CONFORM, etc.

If at the expiration of the extended time the SELLER shall have failed so to remove any defects in title, deliver possession, or make the premises conform, as the case may be, all as herein agreed, or if at any time during the period of this agreement or any extension thereof, the holder of a mortgage on said premises shall refuse to permit the insurance proceeds, if any, to be used for such purposes, then, at the BUYER's option, any payments made under this agreement shall be forthwith refunded and all other obligations of the parties hereto shall cease and this agreement shall be void without recourse to the parties hereto.

This paragraph of the Agreement shall be construed to apply to matters effecting title, the physical condition of the Premises and compliance of the Premises with municipal, county, state or federal codes, ordinances, statutes or regulations concerning the Premises and to which the Premises are subject under the terms of this Agreement.

11. BUYER'S ELECTION TO ACCEPT TITLE

The BUYER shall have the election, at either the original or any extended time for performance, to accept such title as the SELLER can deliver to the said premises in their then condition and to pay therefore the purchase price without deduction, in which case the SELLER shall convey such title, except that in the event of such conveyance in accord with the provisions of this clause, if the said premises shall have been damaged by fire or casualty insured against, then the SELLER shall, unless the SELLER has previously restored the premises to their former condition, either

- (a) pay over or assign to the BUYER, on delivery of the deed, all amounts recovered or recoverable on account of such insurance, less any amounts reasonably expended by the SELLER for any partial restoration, or

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- (b) if a holder of a mortgage on said premises shall not permit the insurance proceeds or a part thereof to be used to restore said premises to their former condition or to be so paid over or assigned, give to the BUYER a credit against the purchase price, on delivery of the deed, equal to said amounts so recovered or recoverable and retained by the holder of the said mortgage less any amounts reasonably expended by the SELLER for any partial restoration.

12. ACCEPTANCE OF DEED

The acceptance of a deed by the BUYER or his nominee as the case may be, shall be deemed to be a full performance and discharge of every agreement and obligation herein contained or expressed, except such as are, by the terms hereof, to be performed after the delivery of said deed.

13. USE OF MONEY TO CLEAR TITLE

To enable the SELLER to make conveyance as herein provided, the SELLER may, at the time of delivery of the deed, use the purchase money or any portion thereof to clear the title of any or all encumbrances or interests, provided that all instruments so procured are recorded in accordance with local conveyancing practices.

14. INSURANCE—Not applicable.

15. ADJUSTMENTS

Taxes for the then current fiscal year shall be apportioned as of the day of performance of this agreement and the net amount thereof shall be added to or deducted from, as the case may be, the purchase price payable by the BUYER at the time of delivery of the deed.

16. ADJUSTMENT OF UNASSESSED AND ABATED TAXES

If the amount of said taxes is not known at the time of the delivery of the deed, they shall be apportioned on the basis of the taxes assessed for the preceding fiscal year, with a reapportionment as soon as the new tax rate and valuation can be ascertained; and, if the taxes which are to be apportioned shall thereafter be reduced by abatement, the amount of such abatement, less the reasonable cost of obtaining the same, shall be apportioned between the parties, provided

that neither party shall be obligated to institute or prosecute proceedings for an abatement unless herein otherwise agreed.

17. BROKER(S) WARRANTY

The Broker named herein, Tom Peterson of Peterson Realty warrants that the Broker is duly licensed as such by the Commonwealth of Massachusetts, and the exclusive representative of the SELLER.

The BUYER's Broker named herein Lynette Helms, warrants that the Broker is duly licensed as such by the Commonwealth of Massachusetts, and the exclusive representative of the BUYER.

18. BROKERS' FEE

The above-referenced SELLER's Broker and the above-referenced BUYER's Broker waive all fees due for professional services rendered as Brokers.

19. DEPOSIT

All deposits made hereunder shall be held in escrow by SELLER's attorney, Andrew L. Singer, as escrow agent subject to the terms of this agreement and shall be duly accounted for at the time for performance of this agreement. In the event of any disagreement between the parties, the escrow agent shall retain all deposits made under this agreement pending instructions mutually given by the SELLER and the BUYER or a court of competent jurisdiction. Deposit shall be held in a non-interest bearing account.

20. BUYER'S DEFAULT; DAMAGES

If the BUYER shall fail to fulfill the BUYER's agreements herein, all deposits made hereunder by the BUYER shall be retained by the SELLER as liquidated damages unless within thirty days after the time for performance of this agreement or any extension hereof, the SELLER otherwise notifies the BUYER in writing and this shall be SELLER'S sole and exclusive remedy at law or equity for BUYER's breach.

21. RELEASE BY HUSBAND OR WIFE—not applicable

22. BROKER AS PARTY

The Brokers named herein join in this agreement and become parties hereto insofar as any provisions of this agreement expressly apply to the Brokers, and to any amendments or modifications of such provisions to which the Brokers agree in writing.

23. LIABILITY OF TRUSTEE, SHAREHOLDER, BENEFICIARY, etc.

If the SELLER or BUYER executes this agreement in a representative or fiduciary capacity, only the principal or the estate represented shall be bound, and neither the SELLER or BUYER so executing, nor any shareholder or beneficiary of any trust, shall be personally liable for any obligation, express or implied, hereunder.

24. WARRANTIES AND REPRESENTATIONS

The BUYER acknowledges that the BUYER has not been influenced to enter into this transaction nor has he relied upon any warranties or representations not set forth or incorporated in this agreement or previously made in writing, except for the following additional warranties and representations, if any, made by either the SELLER or the Broker: None.

25. MORTGAGE CONTINGENCY CLAUSE—Not Applicable

26. LEAD PAINT LAW—Not Applicable

27. SMOKE DETECTORS—Not Applicable

28. CARBON MONOXIDE DETECTORS—Not Applicable

29. ADDITIONAL TITLE MATTERS AND CONDITIONS TO BUYER'S OBLIGATIONS

The BUYER's obligations hereunder are contingent upon the following:

- (a) No building, structure, improvement or property of any kind either encroaches upon or under the Premises from other properties;
- (b) The Premises abut, or have legal access to, a public way duly laid out or accepted as such by the Town or City in which said Premises are located;

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- (c) No proceeding for the exercise of the power of eminent domain with respect to the Premises or any part thereof is pending; and
- (d) The footprint of the affordable homes to be built upon the Premises are located within flood zone X as identified by federal law, thereby making flood insurance only an option and not a requirement for the eligible purchasers to whom Habitat will be selling the premises. See Paragraph 38(c) of this Agreement.

30. AFFIDAVITS AND CERTIFICATES

At the closing, SELLER shall execute and deliver to BUYER the following documents:

- (a) An affidavit stating that SELLER is not a foreign person under Internal Revenue Code section 1445;
- (b) An affidavit to BUYER and BUYER's title insurance company certifying that there are no parties in possession of said premises and that no work has been done on said premises which would entitle anyone to claim a mechanic's or material man's lien with respect to said premises;
- (c) Internal Revenue Code Section 1099 Forms and W-9 Forms; and
- (d) Any other affidavits and certificates customarily required by conveyancing attorneys in the Barnstable County area in connection with residential purchase and sale transactions of this type.

31. WARRANTIES AND REPRESENTATIONS

The SELLER warrants and represents the following to be true as of this date and as of the date of the closing:

- (a) The SELLER has not received any notice that the Premises are in violation of any federal, state or local environmental, sanitary, health or safety statute, ordinance, code, by-law, rule or regulation and that the SELLER has no actual knowledge of any such violations.
- (b) The SELLER has no knowledge of any pending betterment assessments, encumbrances and/or liens affecting the Premises, or the fixtures within the Premises.

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- (c) The SELLER has no knowledge of any underground fuel or chemical storage tanks on the Premises.

32. NOTICE

All notices required or permitted to be given hereunder shall be in writing and delivered in hand, or sent by facsimile ("fax"), by email, or by Federal Express or other recognized overnight delivery service, or mailed postage prepaid, by registered or certified mail, addressed to BUYER or SELLER at the address specified below or to such other address as shall be designated by written notice given to the other party. Any such notice shall be deemed given when so delivered in hand or, if sent by Federal Express or other recognized overnight delivery service, on the next business day after deposit with said delivery service, or, if so mailed, ten (10) business days after deposit with the U.S. Postal Service. In the case of fax notification, the party relying on such notification shall retain and present upon request a fax confirmation sheet which shows a minimum of: the date and time of the fax, the number of pages sent, the fax number to which it was sent, some indication that the transmission was successfully sent and that such transmission was sent readable side up. In the case of email notification, Notice shall be considered sufficient so long as the email is acknowledged as received by the recipient in writing. Simultaneously therewith, a copy of any Notice shall be sent by Facsimile or Email to SELLER's and BUYER's Attorneys at the number/address listed below. Any party may change its address for notice by written communication delivered as aforesaid.

To SELLER:

Harwich Ecumenical Council for the Homeless, Inc.
Attn: Susan Johnson, Executive Director
120 Route 28, 3rd Floor,
West Harwich, MA 02671
Tel:
Fax:
Email:

SELLER's Attorney:

Andrew L. Singer
Law Offices of Singer & Singer, LLC
26 Upper County Road
P. O. Box 67
Dennisport, MA 02639
Tel: (508) 398-2221
Fax: (508) 398-1568
Email: ALSinger@singer-law.com

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To BUYER:

Habitat for Humanity of Cape Cod, Inc.
Attn: Victoria Goldsmith, Executive Director
411 Main Street, Suite 6
Yarmouthport, MA 02675
Tel: 508-362-3559
Fax: 508-362-3569
Email: vg@habitatcapecod.org

BUYER's Attorney:

Kate Mitchell, Esq.
761 Main Street, P.O. Box 160
West Barnstable, MA 02668
Tel: (508) 362-1369
Fax: (508) 362-1368
Email: katemitchell@comcast.net

33. EXTENSION AUTHORITY

BUYER and SELLER grant to each of their respective attorneys authority to extend the time for performance herein unless written notice of revocation is received by said attorney.

34. FACSIMILE/SCANNED SIGNATURES

Facsimile signatures and/or scanned signatures via email shall be binding as original signatures and duplicate signature pages may be attached as one agreement.

35. APPLICABLE STANDARDS

Any matter or practice arising under or relating to this Agreement which is the subject of a title, ethical, or practice standard of the Real Estate Bar Association ("REBA") shall be governed by such standard to the extent applicable, unless otherwise provided for herein.

36. OFFER

not applicable

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37. POST-CLOSING COMPLIANCE AND ADJUSTMENTS

If any errors or omissions are found to have occurred in any calculations or figures used in the settlement statement signed by the parties (or would have been included if not for any such error or omission) and notice hereof is given within two months of the date of delivery of the deed to the party to be charged, then such party agrees promptly to make a payment to correct the error or omission.

The parties hereto also agree to execute and deliver to the requesting party whatever additional documents or amendments to existing documents are reasonably required to effectuate the sale and purchase under this agreement provided such additional documents or amendments are prepared by the requesting party, and do not in any way adversely affect, or otherwise enlarge the liability of, any of the parties relative to said sale and purchase.

This paragraph 37 shall survive delivery of the deed.

38. CONTINGENCIES

- (a) Buyer having obtained the award and release of pre-development funds from the Harwich Affordable Housing Fund;
- (b) Buyer having obtained the award and release of funds for the purchase of the Premises from the Harwich Affordable Housing Fund and/or Community Preservation Committee of the Town of Harwich;
- (c) Buyer, at its expense and to its satisfaction in its sole discretion, obtaining the following information:
 - (i) there are no encroachments on the Premises;
 - (ii) there is legal access to and from a public road for the premises;
 - (iii) there is no presence of hazardous waste on the Premises or in the immediate vicinity that is likely to impact the Premises;
 - (iv) there are no endangered species on or near the Premises in accordance with the Massachusetts Natural Heritage and Endangered Species Act; or the Project, as designed by Buyer and approved by the Harwich Board of Appeals, to develop and construct six affordable single-family homes

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- will not result in a "take" of state-listed environmental species;
 - (v) the footprint of the six affordable homes can be laid out and the homes built so that the homes are not located within a flood zone that requires flood insurance to be purchased by the eligible purchasers to whom Habitat will be selling the premises thereby rendering the Project uneconomic; and
 - (vi) the Premises are buildable for the intended purpose of the construction, use and occupancy of six single-family affordable dwelling units and customary appurtenances thereto under all applicable land use laws, by-laws, and regulations.
- (e) Buyer having obtained all necessary permits and approvals for the subdivision of the Property and for the development and construction of a total of six affordable single family dwelling units on the Premises, which dwelling units will be includable on the Subsidized Housing Inventory compiled by the Department of Housing and Community Development for the Town of Harwich;
- (f) the lapse of all appeal periods for all permits obtained by the Buyer with no appeals having been filed;
- (g) Buyer shall have the right, from time to time, at Buyer's sole cost, expense, risk and hazard and in all such manner as Buyer may reasonably determine, without material damage being imposed upon the Premises and remaining unrepaired, to enter upon the Premises to make, or cause to be made, engineering and development findings and assessments in respect thereto, including (without limitation) surveying, conducting percolation tests, conducting test borings in order to determine subsoil conditions of ledge, peat or other soft materials, the making of tests to determine the presence of hazardous waste, and, in general conducting other tests, analyses and studies of the Premises. Buyer intends to conduct any and all such other research and assessments as Buyer deems necessary in order to determine whether the Premises meet all regulatory and permitting requirements and whether the development of a six parcel subdivision and construction of six affordable single-family homes is economically and financially feasible to BUYER and/or the eligible purchasers to whom Habitat will be selling the premises.

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In the event BUYER determines that the contingencies and/or conditions delineated above cannot be met or the development of the Premises is not feasible, is uneconomic for BUYER and/or the eligible purchasers to whom Habitat will be selling the premises, or permitting from the proper government agencies is not likely to be readily forthcoming, the BUYER may terminate this agreement on or before September 18, 2018, by written notice to the SELLER whereupon any payment made under this agreement shall be forthwith refunded and all other obligations of the parties hereto shall cease and this agreement shall be void without recourse to the parties hereto. If the BUYER does not so notify the SELLER in writing on or before September 18, 2018, then the contingencies in this Paragraph 38 shall be deemed satisfied and of no further force or effect.

40. SELLER ASSENTS

SELLER hereby assents to, and joins in, all applications made by BUYER for permitting and the like whether with local, state or federal permitting authorities; and shall reasonably cooperate with BUYER in its assessments and investigations into the feasibility of the premises' development, use and occupancy of at least a six single family affordable homes.

41. HOLD HARMLESS

The parties acknowledge that there are tenants and their invitees that rent, occupy, use or visit the buildings and grounds of those portions of the Property which are not for sale, namely, Lots #7 (# 97 Main St.) and Lot #8 (#93 Main St.). SELLER hereby undertakes and agrees to save and hold harmless the BUYER from and against any and all claims pertaining to or relative to the portions of the Property which are not for sale, namely, Lots #7 (# 97 Main St.) and Lot #8 (#93 Main St.) including the buildings and grounds on said lots # 7 and #8, unless such claims arise from the acts or omissions of the BUYER or its consultants, contractors, employees, invitees, etc. In the event any such claim is made, asserted or arises against BUYER, SELLER shall save and hold harmless BUYER against such claims, including without limitation all costs and expenses, including attorneys' fees, which may be incurred by BUYER in defending against any such claim except as otherwise provided above.

This Paragraph 41 shall survive delivery of the Deed.

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42. ACCESS RESERVATION

The SELLER's obligation to sell is contingent upon the BUYER agreeing to a reservation being included in the deed from the SELLER to the BUYER for vehicular and pedestrian access and utility services to and from Lot #8 (#93 Main St.) and Route 28 (Main Street) over, along, on, and under the new access road/driveway as shown on Exhibit A along the entire frontage of Lot #8 with the new access road/driveway as shown on Exhibit A.

43. Studies and Plans

If the BUYER terminates the Agreement or if the closing does not take place for any reason, then the BUYER shall, within five (5) business days of such termination or closing date not occurring, deliver to the SELLER free of charge copies of all plans, studies, reports, inspection results, and the like prepared by or on behalf of the BUYER in connection with the permitting of the subdivision and home development on the Premises.

44. CONSTRUCTION OF AGREEMENT

This instrument, executed in multiple counterparts, is to be construed as a Massachusetts contract, is to take effect as a sealed instrument, sets forth the entire contract between the parties, is binding upon and enures to the benefit of the parties hereto and their respective heirs, devisees, executors, administrators, successors and assigns, and may be cancelled, modified or amended only by a written instrument executed by both the SELLER and the BUYER. If two or more persons are named herein as BUYER their obligations hereunder shall be joint and several. The captions and marginal notes are used only as a matter of convenience and are not to be considered a part of this agreement or to be used in determining the intent of the parties to it.

45. LOTS 7 & 8 NOT SUBJECT TO AHR, ETC.

The parties acknowledge, understand, and agree that Lots 7 & 8 of Exhibit A will not be subject to a Department of Housing and Community Development ("DHCD") Affordable Housing Restriction. HECH retains the right to review and approve, such approval not to be unreasonably withheld, any other restrictions or conditions imposed as part of the permitting process.

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**FOR RESIDENTIAL PROPERTY CONSTRUCTED PRIOR TO 1978, BUYER MUST ALSO HAVE
SIGNED LEAD PAINT "PROPERTY TRANSFER NOTIFICATION CERTIFICATION"**

**NOTICE: This is a legal document that creates binding obligations. If not understood,
consult an attorney.**

SELLER:

Harwich Ecumenical Council for the Homeless, Inc.

By: Robin D Wilkins
Robin Wilkins, President

BUYER:

Habitat for Humanity of Cape Cod, Inc.

By: Victoria Goldsmith
Victoria Goldsmith, Executive Director

MEMORANDUM OF UNDERSTANDING

This MEMORANDUM OF UNDERSTANDING is made this 21 day of November 2016, by and between HARWICH ECUMENICAL COUNCIL FOR THE HOMELESS, INC. ["HECH"] of 120 Route 28, 3rd Floor, West Harwich, MA 02671, and HABITAT FOR HUMANITY OF CAPE COD, INC. ["Habitat"] of 411 Main Street, Suite 6, Yarmouthport, MA 02675.

WHEREAS, HECH owns the two adjacent properties located at 93 Main Street (Route 28) and 97 Main Street (Route 28) in West Harwich, Barnstable County, Massachusetts [collectively "Property"], the Property totaling approximately 2.5 acres of land and being presently improved with two single-family dwellings plus a detached barn; and

WHEREAS, Habitat has entered into a Purchase and Sale Agreement dated October 3, 2016, ["P&S Agreement"] for the purchase of 1.75 acres, more or less, of the rear vacant portion of the Property with sufficient frontage and area for an access road to and from Main Street (Route 28) ["Vacant Land"], and FURTHER WHEREAS, Habitat as set forth in the P&S Agreement is seeking regulatory approval to subdivide the Property into eight lots plus a road layout and will be purchasing the fee in the road layout and Lots 1-6 as shown on the draft plan attached to the P&S Agreement as Exhibit A for the purposes of constructing six affordable single-family homes and HECH will retain ownership of Lot 7 and 8 (containing the existing dwellings and barn to remain as market rate lots) with a reserved right to use the new access road appurtenant to Lot 8; and

WHEREAS, the Massachusetts Department of Housing and Community Development as part of its review of the proposal has requested additional documentation regarding Habitat's site control of the Property for purposes of regulatory permitting.

NOW THEREFORE, HECH and Habitat agree as follows:

1. This Memorandum of Understanding is a supplement to the P&S Agreement and does not change any of the provisions set forth in the P&S Agreement.
2. For purposes solely of Habitat's LIP 40B Application to the Commonwealth of Massachusetts and Town of Harwich, HECH has given site control of the Property to Habitat in connection with the proposed subdivision and redevelopment of the Property as set forth in the P&S Agreement.
3. Upon issuance of a Comprehensive Permit for the proposed subdivision and redevelopment of the Property, Habitat will purchase the fee in the road layout and Lots 1-6 as shown on the draft plan attached to the P&S Agreement as Exhibit A, and HECH will retain ownership of Lot 7 and 8 (containing the existing dwellings and barn to remain as market rate lots) with a reserved right to use the new access road appurtenant to Lot 8. If the Comprehensive Permit is not issued, Habitat may terminate the transaction as set forth in the P&S Agreement.
4. HECH reserves the right to continue operating, maintaining, and leasing the existing structures and improvements on the land during the term of the P&S Agreement and this Memorandum of Understanding.

5. The governing law for this Memorandum of Understanding shall be the Commonwealth of Massachusetts.
6. This Memorandum of Understanding may not be amended or modified except with the written consent of both parties. Neither party may assign or subcontract its rights or obligations under this Memorandum of Understanding in whole or in part without the prior written of the other party.

NOTICE: This is a legal document that creates binding obligations. If not understood, consult an attorney.

SELLER:

Harwich Ecumenical Council for the Homeless, Inc.

By: Robin Wilkins
Robin Wilkins, President

BUYER:

Habitat for Humanity of Cape Cod, Inc.

By: Victoria Goldsmith
Victoria Goldsmith, Executive Director

Habitat for Humanity of Cape Cod, Inc.

93-97 Main Street/West Harwich Draft Pro-Formas September 2016

units 6
sq ft 6912

	<u>total costs</u>	<u>per unit</u>	<u>per sq</u>	<u>% of total</u>
(a) Site Acquisition	\$ 480,000	\$ 80,000	\$ 69.44	21%
Hard Costs:				
Site Excavation/Septic	\$ 90,000	\$ 15,000	\$ 13.02	4%
Site Utilities (not extensions/road)	\$ 15,000	\$ 2,500	\$ 2.17	1%
Driveways and Parking	\$ 21,000	\$ 3,500	\$ 3.04	1%
Lawns, Plantings and Walks	\$ 24,000	\$ 4,000	\$ 3.47	1%
Road/Utilities (350')	\$ 105,000	\$ 17,500	\$ 15.19	5%
Sheds	\$ 15,000	\$ 2,500	\$ 2.17	1%
(b) Total Site Work	\$ 270,000	\$ 45,000	\$ 39.06	12%
Concrete	\$ 87,000	\$ 14,500	\$ 12.59	4%
Carpentry/Doors & Windows	\$ 222,000	\$ 37,000	\$ 32.12	10%
Insulation	\$ 46,500	\$ 7,750	\$ 6.73	2%
Interior Finishes	\$ 94,500	\$ 15,750	\$ 13.67	4%
Cabinets	\$ 42,000	\$ 7,000	\$ 6.08	2%
Appliances	\$ 21,000	\$ 3,500	\$ 3.04	1%
Plumbing & HVAC	\$ 162,000	\$ 27,000	\$ 23.44	7%
Electrical	\$ 49,500	\$ 8,250	\$ 7.16	2%
Solar Install	\$ 144,000	\$ 24,000	\$ 20.83	6%
LESS DISCOUNTS/GIFTS-IN-KIND	\$ (120,000)	\$ (20,000)	\$ (17.36)	-5%
(c) Total Construction	\$ 748,500	\$ 124,750	\$ 108.29	33%
(d) Related Party GC (per DHCD Guidelines)				
Builder's OH/Gen Conditions (14%)	\$ 142,590	\$ 23,765	\$ 20.63	6%
(e) Subtotal Hard Costs (a+b+c+d)	\$ 1,641,090	\$ 273,515	\$ 237.43	72%
(f) Contingency (5%)	\$ 82,055	\$ 13,676	\$ 11.87	4%
(g) total Hard Costs (e+f)	\$ 1,723,145	\$ 287,191	\$ 249.30	75%

Habitat for Humanity of Cape Cod, Inc.
93-97 Main Street/West Harwich Draft Pro-Formas September 2016

Soft Costs:

Permits/Permitting Fees	\$ 6,000	\$ 1,000	\$ 0.87	0%
Architectural	\$ 5,200	\$ 867	\$ 0.75	0%
Engineering	\$ 47,500	\$ 7,917	\$ 6.87	2%
Legal	\$ 15,000	\$ 2,500	\$ 2.17	1%
Bond Premium	\$ -	\$ -	\$ -	0%
Real Estate Taxes	\$ -	\$ -	\$ -	0%
Insurance	\$ 17,052	\$ 2,842	\$ 2.47	1%
Site Supervision	\$ 108,000	\$ 18,000	\$ 15.63	5%
Construction Interest (\$540,000)	\$ 34,425	\$ 5,738	\$ 4.98	2%
Financing Application/Fees/Appraisal	\$ 6,000	\$ 1,000	\$ 0.87	0%
Utilities	\$ 1,500	\$ 250	\$ 0.22	0%
Accounting/Cost Cert	\$ 5,000	\$ 833	\$ 0.72	0%
Affirmative Fair Housing Marketing	\$ 25,605	\$ 4,268	\$ 3.70	1%
Family Programs/Volunteer Services	\$ 30,450	\$ 5,075	\$ 4.41	1%
LESS DISCOUNTS/GIFTS-IN-KIND	\$ (4,000)	\$ (667)	\$ (0.58)	0%
(h) Subtotal Soft Costs	\$ 297,732	\$ 49,622	\$ 43.07	13%
(i) Contingency (5%)	\$ 14,887	\$ 2,481	\$ 2.15	1%
(j) Total Soft Costs (h+i)	\$ 312,619	\$ 52,103	\$ 45.23	14%
(k) SubTotal, Development (g+j)	\$ 2,035,763	\$ 339,294	\$ 294.53	89%
Habitat Programs/Dev Fee - 12.5% of Development	\$ 254,470	\$ 42,412	\$ 36.82	11%

TOTAL DEVELOPMENT COSTS	\$ 2,290,233	\$ 381,706	\$ 331.34	100%
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Profit Analysis

Sources:

Sale of Market Lots	\$ 240,000	50% of full appraised value
Affordable Sales USDA mortgage	\$ 853,500	(2 @ 131,750; 4 @ 147,500)
Pre Development Grant	\$ 35,000	
Grants - Acquisition	\$ 240,000	
Grants- Construction	\$ 300,000	
Solar Grants	\$ 144,000	
FHLBB	\$ 180,000	\$ 30,000 per home
Habitat Developer Equity/Fundraising	\$ 297,733	\$ 49,622 per home

(A) Total Sources	\$ 2,290,233
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Internal Revenue Service

Department of the Treasury

P. O. Box 2508
Cincinnati, OH 45201

Date: April 23, 2002

Person to Contact:

Jeremy L. Vogelpoh 131-03888
Customer Service Representative

Toll Free Telephone Number:
8:00 A.M. to 6:30 P.M. EST
877-829-5500

Fax Number:
513-263-3756

Federal Identification Number:
22-2900430

Group Exemption Number:
8545

Habitat for Humanity International, Inc.
Cape Cod
c/o Victoria Goldsmith
658 Main Street
West Yarmouth, MA 02673-5103

Dear Sir or Madam:

We have received your request for affirmation of your organization's tax exempt status.

Your organization is exempt under section 501(c)(3) of the Code because it is included in a group ruling issued to Habitat for Humanity International, located in Americus, Georgia.

Individual exemption letters are not available to organizations included in group rulings. The group exemption letter applies to all of the subordinate organizations on whose behalf the Habitat for Humanity International, Inc. has applied for recognition of exemption. If you want a copy of the group exemption letter, please contact your parent organization.

Your organization is required to file Form 990, Return of Organization Exempt from Income Tax, only if its gross receipts each year are normally more than \$26,000. If a return is required, it must be filed by the 15th day of the fifth month after the end of the organization's annual accounting period. The law imposes a penalty of \$20 a day, up to a maximum of \$10,000, when a return is filed late, unless there is reasonable cause for the delay.

Donors may deduct contributions to your organization as provided in section 170 of the Code. Bequests, legacies, devises, transfers, or gifts to your organization or for its use are deductible for federal estate and gift tax purposes if they meet the applicable provisions of sections 2055, 2106 and 2522 of the Code.

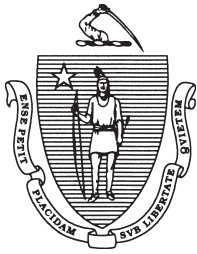
The law requires you to make your organization's annual return available for public inspection without charge for three years after the due date of the return. You can charge only a reasonable fee for reproduction and actual postage costs for the copied materials. The law does not require you to provide copies of public inspection documents that are widely available, such as by posting them on the Internet (World Wide Web). You may be liable for a penalty of \$20 a day for each day you do not make these documents available for public inspection (up to a maximum of \$10,000 in the case of an annual return).

Habitat for Humanity International,
Inc. Cape Cod
22-2900430

If you have any questions, please call us at the telephone number shown in the heading of this letter.

Sincerely,

John E. Ricketts, Director, TE/G E
Customer Account Services



The Commonwealth of Massachusetts
Secretary of the Commonwealth
State House, Boston, Massachusetts 02133

William Francis Galvin
Secretary of the
Commonwealth

Date: January 10, 2017

To Whom It May Concern :

I hereby certify that according to the records of this office,

HABITAT FOR HUMANITY OF CAPE COD, INC.

is a domestic corporation organized on **May 03, 1988**

I further certify that there are no proceedings presently pending under the Massachusetts General Laws Chapter 180 section 26 A, for revocation of the charter of said corporation; that the State Secretary has not received notice of dissolution of the corporation pursuant to Massachusetts General Laws, Chapter 180, Section 11, 11A, or 11B; that said corporation has filed all annual reports, and paid all fees with respect to such reports, and so far as appears of record said corporation has legal existence and is in good standing with this office.



In testimony of which,

I have hereunto affixed the

Great Seal of the Commonwealth

on the date first above written.

William Francis Galvin

Secretary of the Commonwealth

Certificate Number: 17010164440

Verify this Certificate at: <http://corp.sec.state.ma.us/CorpWeb/Certificates/Verify.aspx>

Processed by:

Developer and Contractor Experience

Current and Recent Projects							
Project Name	Address	Housing Type	No. of Units	Total Dev Cost	Subsidy Program	Date Complete	Reference (Town Adm)
River Road	Barnstable	Single Family Ownership	4	\$1,584,327	DHCD 40B	Under Const	Mark Ellis 508-862-4610
143 Route 6	Truro	Single Family Ownership	3	\$1,279,919	DHCD 40B	Under Const	Rae Ann Palmer 508-349-7004
Tubman Road	Brewster	Single Family Ownership	6 + 8 two phases	\$5,525,954	DHCD 40B	Under Const	Michael Embury 508-896-3701
Orchard & Quinaquisset	Mashpee	Single Family Ownership	2	\$593,849	DHCD 40B	Under Const.	Rodney Collins 508-539-1400
Old Stage Rd	Barnstable	Single Family Ownership	2	\$437,469	DHCD 40B	8/2016	Tom Lynch 508-862-4610
Rabbit Run	Eastham	Single Family Ownership	1	\$215,336	DHCD LAU	6/2016	Sheila Vanderhoef 508-240-5900
Virginia Street	Yarmouth	Single Family Ownership	6	\$1,394,278	DHCD 40B	Under Const.	William Hinchey 508-398-2231
Main Street	Chatham	Single Family Ownership	4	\$859,411	DHCD 40B	Under Const.	Jill Goldsmith 508-945-5105
Oak Street	Harwich	Single Family Ownership	7	\$1,389,121	DHCD 40B	7/2016	Christopher Clark 508-430-7513
Sesame Street	Barnstable	Single Family Ownership	2	\$486,148	DHCD 40B	7/2015	Tom Lynch 508-862-4610
Glenwood	Falmouth	Duplex Ownership	2	\$306,000	DHCD 40B	1/2015	Heather Harper 508-548-7611
Bevan Way	Orleans	Single Family Ownership	6	\$1,602,740	DHCD 40B	9/2015	John Kelly 508-240-3700
Ginger Lane	Barnstable	Single Family Ownership	1	\$160,232	LIP/LAU	5/2014	Tom Lynch 508-862-4610
Park Place	Mashpee	Single Family Ownership	2	\$266,000	DHCD 40B	4/2014	Joyce Mason 508-539-1400
Yellow Brick Road	Truro	Single Family Ownership	1	\$133,000	LIP/LAU	7/2013.	Charleen Greenhalgh 508-349-7004
Sandy Meadow Way	Eastham	Single Family Ownership	2	\$266,000	LIP/LAU	4/2013	Sheila Vanderhoef 508-240-5900
Russell Road	Mashpee	Single Family Ownership	1	\$133,000	DHCD 40B	4/2013	Joyce Mason 508-539-1400

Habitat for Humanity has an experienced development team. We have built over 100 affordable homes on the Cape. Habitat has a highly qualified Executive Director, and a strong team providing the needed support for our programs. We have a deeply experienced Director of Construction who has over three decades experience as a General Contractor building residences on the Cape and Islands before joining Habitat. Team resumes are available upon request.

Developer and Contractor Team

Developer: Habitat for Humanity of Cape Cod, Inc., Victoria Goldsmith, Executive Director

Construction: Robert M. Ryley, Director of Construction, Habitat for Humanity of Cape Cod, Inc.

Legal, Permitting: Law Offices of Warren H. Brodie, P.C.

Legal, Conveyancing: Kate Mitchell, Attorney at Law

Architectural: Brown, Lindquist, Fenuccio & Raber

Civil Engineering: Down Cape Engineering, Inc, Daniel A. Ojala PE, PLS

Environmental Engineering: Bennett Environmental Associates, Inc.

Marketing and Lottery: Habitat for Humanity of Cape Cod, Inc.

Habitat for Humanity Board of Directors

Habitat's board of directors is made up of dedicated individuals from many fields, including construction, real estate, social services, finance, and faith leadership. Their collective expertise helps guide our programs, informs our strategic direction, and assesses the effectiveness of our organization. These men and women lead us in our mission to build homes, hope, lives, and community.

Wil Rhymer

President - Wil is an Assistant Vice-President of Cape Cod Five Cents Savings, and the Wellfleet Branch Manager. In addition to his banking and finance expertise, he brings us his broad connections in the community, his experience and expertise with non-profit organizations and his enthusiasm for our mission and work. About his work with Habitat, Wil says, "It makes me smile when I see the smiles on the faces of families helped by Habitat who otherwise would not be able to own their own home. I hope to continue to play a part in bringing more smiles to Habitat families." Wil lives in Brewster.

Nancy Smith

Vice President - Nancy has spent 40 years as a consultant to the food ingredient industry, 22 of those years at Arthur D. Little, Inc., where she was vice president and managing director of the company's international consulting practice to the food, beverage and food ingredient industries. Currently, she is a partner of TFG (formerly The Food Group) a boutique consulting firm focused on the food ingredient industry. Her consulting activities focus on helping clients understand the critical interfaces among technology investment, business strategy and market opportunities. Nancy was a member of the Habitat for Humanity of Cape Cod's 25th gala event committee and has been a volunteer in the Habitat office helping in resource development. She splits her time between her homes in West Yarmouth and Waltham.

Linda Cebula

Treasurer - After attaining her license as a CPA, and having spent many years in the corporate world in major retailers, Linda started consulting with small businesses and individuals. Her practice includes financial management and administration, tax and audit preparation. Upon relocating to the Cape, she has served on the Habitat Finance Committee for the past 3 years and has been a construction volunteer for many years. In addition to Habitat, her community involvement includes: Harwich Board of Selectmen, Chatham Historical Society (Trustee and Treasurer), and Cape Women's Coalition (Co-Chair). She lives in Harwich Port with her husband, Robert MacCready, and their cats.

Dave King

Clerk - Dave is returning to the Board after a break of several years. Dave retired as the Reiff Professor of Biology at Franklin and Marshall College in Lancaster, PA, after 31 years of teaching and research. Dave now chairs Habitat's Family Partnership Committee, serves on our Governance Committee, and has participated in many aspects of Habitat volunteer work. Dave says, "It is my hope that our Habitat Affiliate will be able to sustain its recent impressive

capacity to provide affordable housing on Cape Cod through improved partnerships within and beyond our organization.” Dave lives in Orleans.

Frank Almeida

Frank recently retired from 39 years of Federal Government service as a Fisheries Biologist and Administrator. For the past 10 years he was Director of the NOAA Fisheries science lab in Woods Hole, MA and Deputy Director of facilities in 6 northeastern states. Frank became active with Habitat as a construction volunteer on our 75th house in Orleans during 2011-2012. He has quickly become a valued regular on our sites and has chalked up many hours at the build sites. Frank lives in Falmouth.

Warren Brodie

Warren is the principal of Law Offices of Warren H. Brodie, P.C., a law firm with offices in Wellesley and Mashpee. Warren has been involved with Habitat since 2003 as a member of the Land Acquisition Committee, which seeks developable land and assist in obtaining all permits necessary for the construction of affordable homes. Warren presently chairs the committee, and has been involved in over 30 Habitat homes. Warren has also been active on builds, and he participated in Habitat’s 2006 trip to the gulf region in the wake of Hurricane Katrina. Warren lives in Waquoit, MA.

Tricia Favulli

Trisha is the Director of Assessing for the Town of Falmouth. She has been with the assessing office for the last 13 years, and prior to joining the assessing department Trisha was a Realtor at Vincent Associates in Falmouth. Trisha became involved with Habitat through the Falmouth Builds Together Committee – a group fundraising for the Glenwood Avenue home. Trisha lives in Falmouth with her husband Mark.

Carol Forgione

Carol has 25+ years of experience as a business professional, with specialty in the field of Human Resources Management. She is currently the Director of Human Resources for the Nauset Regional School District, a position she has held for the past year. Prior to this role, Carol served as Vice President and Director of Human Resources for the Cape Cod Five Cents Savings Bank for nine years. She has also held similar roles for other local organizations over the past fifteen years since moving to Cape Cod from the Boston area in 2000. Carol earned her MBA from Rivier College in N.H., and a B.S. Degree in Business from the University of MA at Lowell, MA. Carol is active in the community, and is a volunteer advisor to the HR Committee for Habitat for Humanity of Cape Cod. She also held a role on the board of the Cape Cod Human Resources Association (scholarship chair), and is the Treasurer for the Brewster PTO. Carol resides in Brewster with her husband Joe and two young children, Julia, age 7 and Joey aged 12. She enjoys spending time with her family, which includes spending lots of time cheerleading at local youth sports events.

Linda Jean

Linda spent 32 years in civil service employment with multiple federal agencies. Prior to

retirement she was the Executive Director of the Enterprise Acquisition Division at Hanscom Air Force Base. She was responsible for the cost, schedule and performance management of contracts valued in excess of \$12B worldwide. In 2008, after retirement, Linda established Seaview Consulting providing services to DOD and civilian contractors in the preparation of proposals and grants. From May 2014 –July 2015 she was the Interim Executive Director of the Yarmouth Chamber of Commerce. She has a Masters of Business Administration and a Bachelor of Science, Criminal Justice – Law Enforcement. Linda lives in West Yarmouth with her husband John Nellenbeck.

Peter Kimball

Peter is president of AP Kimball Construction based in Yarmouth Port. He has more than 10 years of residential construction management and 30 years of business experience. Peter was team leader for Blitz Build 2013 in Orleans, where the Homebuilders and Remodelers Association of Cape Cod (HBRACC) built a Habitat home in one week. He currently serves on the Town of Yarmouth Old Kings Highway Historic Committee as well as on the Board of Directors of HBRACC. Peter resides in Yarmouth Port with his wife and business partner, Angela.

Kathleen Nagle

Kathleen is a top producing Real Estate Agent with Kinlin Grover working out of their Wellfleet office. She specializes in representing clients who want to purchase single-family homes or income/investment property on the Outer Cape. Prior to moving to the Cape she worked for the Nine West Group at their corporate headquarters in Stamford, CT . When Kathleen moved to the Cape in 2000 she was introduced to Habitat by working on a build site in Orleans as well as in Chatham. From there she served on the Family Selection Committee, and then as a Family Partner in Eastham and Wellfleet. Kathleen lives in Wellfleet.

Charles Orr

Charles is a Registered Architect with Hutker Architect in Falmouth with over 25 years of architectural experience, and serves as Principal and Senior Project Designer of the Falmouth Office. Charles has served for several years on HHCC's Land Acquisition Committee and together, with staff at Hutker Architect, are the designers of the 2013 Namskaket Road homes in Orleans. Charles says "My aspiration for Habitat is to create such wonderful homes that communities will be approaching Habitat to have them in their neighborhoods!" Charles lives in Falmouth.

Ernie Rogers

Ernie worked for Cape Cod Five Cents Savings Bank for 20 years. For most of that time he was a Vice President, Commercial Lender, for the last four years at the bank he was Vice President, Relationship Management Officer. Prior to joining Cape Cod Five he spent 16 years in the retail book business. His last position there was as Operations Manager for 80 bookstores on the East Coast. Ernie is very active in community service all across the Cape. Currently he is treasurer of the Highlands Center Inc. Board. This is a public/private partnership with CC National Seashore to develop old Truro Air Force base. He is a member of the Board of Wells Court (affordable housing), and serves as Treasurer of the Federated Church of Orleans. He was a member of the board of the Community Development Partnership (CDP) for 23 years and served as board

President for 10 years. He is currently on the CDP Advisory Board and representative on the C.C. Chamber Cape & Island License Plate Committee. Other past volunteer activities included working with HAC as a consultant and instructor for first time home owners. Ernie lives in South Orleans with his wife, Anita.

Jill Scalise

Jill has been helping to reduce homelessness, professionally and on a volunteer basis, for 25 years. She has a Masters of Social Service with a concentration in Advocacy, Planning and Program Development. Since 2004 she has worked for the Cape Cod Council of Churches as the Director of Case Management and Hospitality Housing, where she helps those seeking housing and provides support services to those now in housing. "I believe my experience will be helpful in understanding both the needs of, and resources for, families moving into Habitat homes." Jill lives in Brewster.

Rev. Dr. John Terry

John serves as pastor of the Federated Church of Hyannis. He previously served churches in New Hampshire, Georgia, New York City and Cleveland. He is currently co-chair of the Board of Champ House (a safe and nurturing campus for homeless youth and adults). John lives in Hyannis.

Father Joe Towle

Joe is a retired Catholic Priest who has always been dedicated to working with people on the margin, whether in Latin America or in the United States. He is an active volunteer with both the Family Pantry of Cape Cod in Harwich and Habitat for Humanity, where he is a regular on the construction sites. Joe says, "I look upon construction with Habitat as an undoing of some of the destruction in the world." Joe lives in Harwich Port.

Ron Winner

Ron has almost 40 years of experience in the lumber and building materials industry, selling to builders and architects. He joined Shepley Wood Products in 1989 as their first outside lumber salesman. He has worked on Habitat builds in the past and looks forward to more hands-on building. Ron hopes "to work to help Habitat continue the great work it is already doing." Ron lives in Hyannis.

HHCC Pricing Model - 2016 DRAFT Habitat Home Prices, USDA Mortgage Harwich

Housing Cost:	<i>2 bedroom</i>	<i>3 bedroom</i>
Sales Price	\$131,750	\$147,500
0% Down payment	\$0	\$0
Mortgage	\$131,750	\$147,500
<u>Interest rate</u>	1.00%	1.00%
Amortization	33	33
Monthly P&I Payments	\$390.75	\$437.46
<u>Tax Rate</u>	\$9.07	\$9.07
monthly property tax	\$100	\$111
Hazard insurance	\$99	\$111
PMI	\$0	\$0
Condo/HOA fees (if applicable)	\$50	\$50
Monthly Actual Housing Cost	\$639	\$710
Necessary Income:	\$30,679	\$34,059

Household Income:	<i>2 bedroom</i>	<i>3 bedroom</i>
# of Bedrooms	2	3
Sample Household size	3	4
40% of Area Median Income	\$30,575	\$33,950
Target Affordable Housing Cost (25% of income to hsng cost)	\$637	\$707

Habitat for Humanity of Cape Cod Policy: pricing is set so that a household earning 40% of area median income, as adjusted for family size, can afford a home. The figure of 40% has been adopted based on past practice and experience as the number that creates an appropriate "window of affordability" and allows those families ready to take on home ownership to qualify.

MARKETING PLAN FOR HOMEOWNERSHIP APPLICANTS

Time period: Application deadline shall be at least 60 days from the announcement of availability of applications. Marketing for these homes is scheduled so that purchasers are selected in time to participate, alongside volunteers, in the building of their homes.

Notice of application availability and public workshops:

- Notice of application availability and public information workshops sent to all persons who have requested information about our application process in the last 12 months
- Notices sent to area newspapers: The Cape Cod Times (regional paper), and any other weekly or daily serving the Town where the new homes will be located.
- Two advertisements in regional newspaper (Cape Cod Times)
- Public Service Announcements to local radio stations and local access cable TV
- Notices and fliers sent to Local Town Hall and local Chamber of Commerce
- Notices and fliers sent to churches in the Town and surrounding Towns
- Notices and fliers sent to area housing and social service agencies, and organizations serving the Cape's minority population, including:

Multi-Cultural Development Committee of Cape Cod Community College
NAACP

Housing Assistance Corporation — Cape Home Ownership Center

Cape Cod Child Development (Head Start Programs)

Cape Cod Council of Churches

Community Action Council

Area Housing Authorities

Area Town Halls

Additional service and charitable agencies serving low-income as may be identified

- Posting, as required on MAHA and CHAPA websites, Massachusetts Housing Authority (MAHA) website: <http://www.massaffordablehomes.org/default.aspx> and the Citizen's Housing and Planning Association: <http://www.chapa.org/>.
- Fliers distributed through the town's Elementary and Middle Public Schools, as allowed by the Superintendent
- At least two public information sessions are held in the town to inform and assist potential applicants
- Applications will be available at one accessible Town location as well as from Habitat's office.

LOTTERY PLAN

The lottery process will conform to standards consistent with the requirements of the Department of Housing and Community Development's (DHCD) Local Initiative Program (LIP).

Habitat will pre-qualify candidates according to its established criteria and then conduct the lottery, which will not be public but which will be monitored by a representative of Housing Assistance Corporation (HAC) or any alternate monitoring agency as may be designated by DCHD, and acceptable to the Town. Post-lottery, before notification of lottery winners, the eligibility and qualifications of lottery winners will be certified by monitoring agent. HHCC Board of Directors (as Lender) will do final certification of the results.

Local preference: If approved by DCHD there will be local preference pool for the lottery for up to 70% of the homes. The definition of local resident will be in conformance with DHCD's Affirmative Fair Marketing Plan and will include households currently living in Town, households with a member employed by a local business or the municipality or school district, or with a household member attending public school in the Town. In conformance with DCHD standards, no more than 70% of the units for this project may receive a local preference. The applicant pool for the remaining home shall be OPEN meaning there will be no local preference in the application selection for homes in this pool. Per previous agreement with DHCD, for all homes, eligible qualified applicants who live or work in the 15-Town service area (Barnstable County) of Habitat for Humanity of Cape Cod shall receive a preference over those who do not.

Household size/bedroom size: There will be a preference system within the selection process for households that will utilize all bedrooms of their home, with at least one person to a bedroom, with couples presumed to share a bedroom unless medical documentation is presented to demonstrate a true need for separate bedrooms. If there is no household of number/composition to fill all bedrooms, the earliest selection in the lottery of the size household that would fill all but one, will be given the opportunity to select a larger house size, and so on.

MEMORANDUM

TO: Ms. Leedara Zola
Land Acquisition and Permitting
Habitat for Humanity of Cape Cod
411 Main Street, Suite 6
Yarmouthport, MA 02675

FROM: Mr. Jeffrey S. Dirk, P.E., PTOE, FITE
Principal
Vanasse & Associates, Inc.
35 New England Business Center Drive
Suite 140
Andover, MA 01810-1066
(978) 474-8800, ext. 830
jdirk@rdva.com



DATE: January 3, 2017

RE: 7524

SUBJECT: Transportation Impact Assessment
Proposed Residential Development - 93 and 97 Main Street (Route 28)
West Harwich, Massachusetts

Vanasse & Associates, Inc. (VAI) has conducted a Transportation Impact Assessment (TIA) in support of the proposed residential community to be located at 93 and 97 Main Street (Route 28) in the Village of West Harwich in Harwich, Massachusetts (hereafter referred to as the "Project"). This assessment provides an existing conditions context for the Project with regard to its interface with the transportation infrastructure and includes: i) traffic volume projections for the residential community; ii) a qualitative assessment of potential impacts; iii) a review of lines of sight at the proposed access roadway; and iv) recommendations with regard to the design and operation of the roadway that will serve the Project.

Based on this evaluation, we have determined that the Project will not result in a significant increase in traffic to the extent that it would cause a material increase in motorist delays or vehicle queueing over current conditions. Accordingly and with implementation of the recommendations provided herein, we have concluded that the transportation infrastructure should afford sufficient capacity to accommodate the Project in a safe and efficient manner. We note that the Project will require the issuance of a State Highway Access Permit from the Massachusetts Department of Transportation (MassDOT) for access to Main Street (Route 28), a State Highway under MassDOT jurisdiction.

The following details our assessment of the Project.

PROJECT DESCRIPTION AND EXISTING CONDITIONS CONTEXT

Project Description

As proposed, the Project will entail the construction of six (6) single-family homes to be situated on a portion of a 2.466 acre parcel of land located at 93 and 97 Main Street (Route 28) in the Village of West Harwich in Harwich, Massachusetts. At present, the Project site contains a single-family home at 93 Main Street, a multi-family home at 97 Main Street that includes a detached cottage unit, and areas of open and wooded space. Access to the Project site will be provided by way of a new roadway that will intersect the south side of Main Street at the location of the driveway that serves the existing home



located at 93 Main Street. In conjunction with the Project, the existing residential homes and the cottage will be retained, and six (6) new single-family homes will be constructed in the southern portion of the Project site.

Existing Conditions Context

Main Street (Route 28) is a two-lane, urban principal arterial roadway that is under the jurisdiction of MassDOT and traverses a general east-west alignment through Harwich. In the vicinity of the Project site, Main Street is approximately 24-feet in width (paved area) and provides two 11-foot wide travel lanes separated by a double-yellow centerline with 1-foot wide marked shoulders provided. The posted speed limit along Main Street in the vicinity of the Project site is 35 miles per hour (mph).

A review of the MassDOT statewide High Crash Location List did not indicate any listed locations in the vicinity of the Project site.

A sidewalk is provided along the north side of Main Street opposite the Project site. Main Street does not provide sufficient width (combined travel lane and shoulder) on a consistent basis to support bicycle travel in a shared traveled-way configuration.¹ The Cape Cod Rail Trail is located to the north of the Project site and traverses an alignment to the south of Great Western Road, with the closest access to the Project site provided at the Bells Neck Road trail crossing, approximately 1.5 miles north of the Project.

The Cape Cod Regional Transit Authority (CCRTA) provides public transportation services along Main Street that are available to the Project site by way of bus service on the H2O Line. The H2O Line provides service along Route 28 between the Hyannis Transportation Center and the Stop & Shop Supermarket in Orleans. The closest bus stop to the Project site is located at the Dennis Municipal Parking Lot which is approximately 0.5 miles west of the Project site; however, CCRTA buses will stop anywhere along their service route where it is safe to pick-up or discharge passengers.

PROJECT-GENERATED TRAFFIC

In order to determine the traffic characteristics of the Project, trip-generation methodologies established by the Institute of Transportation Engineers (ITE)² were used. The ITE provides trip-generation information for various types of land uses developed as a result of scientific studies that have been conducted over the past 50 plus years, the most recent update of which was published in 2012. This data includes trip estimates for land uses that are similar to those that are to be located within the Project site. ITE Land Use Code (LUC) 210, *Single-Family Detached Housing*, was used to develop the traffic characteristics of the Project.

Table 1 summarizes the trip-generation calculations for the Project using the above methodology.

¹A minimum combined travel lane and paved shoulder width of 14-feet is required to support bicycle travel in a shared traveled-way condition.

²*Trip Generation*, 9th Edition; Institute of Transportation Engineers; Washington, DC; 2012.



Table 1
TRIP GENERATION SUMMARY

Time Period/Direction	Vehicle Trips
	Proposed Residential Community (6 Homes) ^a
<i>Average Weekday Daily:</i>	
Entering	29
<u>Exiting</u>	<u>29</u>
Total	58
<i>Weekday Morning Peak Hour:</i>	
Entering	1
<u>Exiting</u>	<u>4</u>
Total	5
<i>Weekday Evening Peak Hour:</i>	
Entering	4
<u>Exiting</u>	<u>2</u>
Total	6

^aBased on ITE LUC 210, *Single-Family Detached Housing*.

Project-Generated Traffic Summary

As can be seen in Table 1, the Project is expected to generate approximately 58 vehicle trips on an average weekday (two-way, 24-hour volume, or 29 vehicles entering and 29 exiting), with approximately 5 vehicle trips (1 vehicle entering and 4 exiting) expected during the weekday morning peak-hour and 6 vehicle trips (4 vehicles entering and 2 exiting) expected during the weekday evening peak-hour. ***Such increases (one (1) additional vehicle every 10 to 12 minutes during the peak hour) would not result in a material increase in motorist delays or vehicle queuing over existing conditions.***

SIGHT DISTANCE ASSESSMENT

Lines of sight to and from the Project site roadway intersection with Main Street were provided by Down Cape Engineering, Inc. These measurements indicate that the sight line looking to the west from the Project site driveway is approximately 425 feet (limited by the horizontal curve to the west of the Project site roadway), with the sight line looking to the east found to be approximately 980 feet. Lines of sight along Main Street approaching the Project site roadway intersection exceed 500 feet in both directions. These sight lines are appropriate for an approach speed of up to 50 mph along Main Street, which is well in excess of the posted speed limit of 35 mph in the vicinity of the Project site, indicating that the Project site roadway is appropriately located along Main Street to function in a safe manner.

SUMMARY

VAI has prepared a TIA in support of the proposed residential community to be located at 93 and 97 Main Street (Route 28) in the Village of West Harwich in Harwich, Massachusetts. This assessment has provided an existing conditions context for the Project with regard to its interface with the transportation infrastructure and included: i) traffic volume projections for the residential community; ii) a qualitative assessment of potential impacts; iii) a review of lines of sight at the proposed access roadway; and iv) recommendations with regard to the design and operation of the roadway that will serve the Project, a discussion of which follows. We note that the Project will require the issuance of a State Highway Access Permit from the MassDOT for access to Main Street (Route 28), a State Highway under MassDOT jurisdiction.

Based on this evaluation, we have determined that the Project will not result in a significant increase in traffic to the extent that it would cause a material increase in motorist delays or vehicle queueing over current conditions. Accordingly, we have concluded that the transportation infrastructure should afford sufficient capacity to accommodate the Project in a safe and efficient manner. This conclusion is predicated on implementation of the following specific recommendations that should be advanced as a part of the Project:

1. The Project site roadway should be a minimum of 20-feet in width and be designed with appropriate geometry to accommodate the turning and maneuvering requirements of a single-unit truck (SU-30/40 design vehicle, which is typical of a trash/recycling vehicle and maintenance truck) and the largest anticipated responding emergency vehicle as defined by the Town of Harwich Fire Department.
2. Vehicles exiting the Project site should be placed under STOP-sign control with a marked STOP-line provided.
3. All signs and pavement markings to be installed within the Project site shall conform to the applicable standards of the *Manual on Uniform Traffic Control Devices* (MUTCD).³
4. Signs and landscape features to be installed along the Project site roadway, internal to the Project site and within the site triangle area of the Project site roadway intersection with Main Street, shall be designed and maintained so as not to restrict lines of sight.
5. Snow windrows along the Project site frontage on Main Street within the sight triangle areas of the Project site roadway shall be promptly removed where such accumulations would exceed 2.5-feet in height.

With implementation of the above recommendations, safe and efficient access can be provided to the Project site and the Project can be accommodated within the confines of the existing transportation infrastructure.

cc: File

³*Manual on Uniform Traffic Control Devices (MUTCD)*; Federal Highway Administration; Washington, D.C.; 2009.



BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS 💧 ENVIRONMENTAL SCIENTISTS 💧 GEOLOGISTS 💧 ENGINEERS

1573 Main Street - P.O. Box 1743, Brewster, MA 02631 💧 508-896-1706 💧 Fax 508-896-5109 💧 www.bennett-ea.com

BEA16-10913

July 1, 2016

Ms. Leedara Zola
Habitat for Humanity
Land Acquisition & Permitting
411 Main Street, Suite 6
Yarmouthport, MA 02675

RE: 93 & 97 Route 28 (Main Street)
West Harwich, MA

Dear Ms. Zola,

Per our agreement dated June 1, 2016, BENNETT ENVIRONMENTAL ASSOCIATES, INC. (BEA) has completed limited physical testing at the above referenced property. This work was performed at your request to qualify potential environmental impacts to the subject properties as related to the documented plume of volatile organic compound (VOC) impacts to groundwater to the west. Research of the property identified a historic release of fuel oil occurred in the basement of the on-site dwelling at 97 Main Street. The spill was remediated and the Site was closed in 1996 with a Class A-2 Response Action Outcome (RAO), in accordance with 310 CMR 40.0000. As such, APH testing was also conducted at 97 Main Street to confirm that no significant risk exists relative to indoor air quality as having recently been framed in MCP policy, WSC-14-435.

Physical Testing

On June 10, 2016, BEA personnel traveled to the subject property to oversee the installation of a groundwater monitoring well couplet, as well as soil vapor points in the basement of each of the on-site dwellings. Test borings TB-101A and TB-101B were conducted toward the rear of the developed portion of the property, between the two dwellings. Upon drilling, the contractor noted a confining clay layer at 45' below grade surface (bgs). Wherein the existing confining layer may be serving to prevent vertical mobilization of volatile compounds, it was decided that the clay would not be penetrated and deep monitoring well, MW101D, would be set at 45'bgs. Monitoring well MW101B was then set at 20' bgs.

Upon completion of monitoring well installation, BEA personnel moved to the interior of the dwellings to install soil vapor pins (SVP) through the basement flooring. A photoionization

detector was used to purge the soil gas and confirm the seal at each location with readings consistent with background (non-detect to 0.3ppmv).

On June 15, 2016, BEA returned to the property to gauge, develop, purge and sample the monitoring well couplet for volatile organic compounds (VOCs). Each of the SVPs were also purged and sampled for VOCs, as well as for air-phase petroleum hydrocarbons (APH) in review of residual indoor air impacts. Each of the samples were then forwarded to a MA certified laboratory for analysis.

Analytical Results

According to the MA DEP BWSC GIS mapping, the subject property is located within a Potential Drinking Water Source Area (PDWSA). As such, the RCGW-1 Reportable Concentrations are applicable for groundwater quality and the GW-1, GW-2 and GW-3 groundwater categories are applicable in Method 1 - Risk Characterization, relative to potential human exposures, inhalation and significant environmental impact. This criterion is used to determine notification and/or remedial response liabilities, pursuant to 310 CMR 40.0000 for groundwater samples. Sub-Slab Soil Gas Screening Values were used to evaluate soil vapor entry.

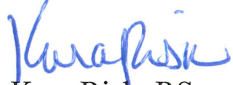
On June 23, 2016, Alpha Analytical reported the results of laboratory testing for the above noted soil vapor sampling. VOC and APH concentrations at each of the SVPs were reported below the detection limit of the analysis (Non-Detect), wherein the reporting limit was below the MA Residential Sub-slab Guidelines. On June 27, 2016, the results of laboratory testing for the above noted groundwater testing was received. All VOC parameters were reported as Non-Detect and below their respective reporting limits, with the exception of six VOCs (1,2 Dibromoethane, 1,3 Dichloropropene, 1,4 Dioxane, cis 1,3 Dichloropropene, Hexachlorobutadiene, trans 1,3 Dichloropropene) which were reported at their respective reporting limits, as greater than the RCGW-1 Concentrations. In the absence of other related VOC analytes, these compounds are not believed to be present at significant concentrations, and no Notification or Remedial Response liabilities are opined.

Summary and Conclusions

BEA has performed limited physical testing, as described in detail above, at the subject property. This testing has revealed no groundwater impacts with all parameters reported as non-detect, as consistent with background conditions. Soil vapor concentrations were reported beneath the Soil Gas Screening Values listed in Appendix II of WSC-14-435, as indicating no threat of vapor entry into the dwelling as would degrade indoor air quality.

Should you have any additional questions regarding this work, or need additional information, please contact us at your convenience.

Sincerely,
BENNETT ENVIRONMENTAL ASSOCIATES, INC.



Kara Risk, RS
Project Manager

Cc: David C. Bennett, LSP

Encl. Geologic Borehole Logs and Monitoring Well Sampling Log
Analytical Reports with Summary Spreadsheets

BENNETT ENVIRONMENTAL ASSOCIATES, INC. 1573 Main St., P.O. Box 1743 Brewster, MA. 02631			Project Name: <u>HECH/Habitat for Humanity</u> Project Location: <u>93 & 97 Rt. 28, W. Harwich</u> Project Number: <u>BEA16-10913</u>			Sheet <u>1 of 2</u> Boring No. <u>TB-101A/MW-101S</u> Location <u>Next to Driveway</u> Surface Elev. <u>9' NGVD +/-</u> Start Date <u>6/10/2016</u> Finish Date <u>6/10/2016</u> Driller <u>Jenkins</u> Inspector <u>TME</u>																										
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5-ft						Top/Subsoil																										
	AF	0-5'	NA			Sand: Dark brown, medium, clean, dry																										
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BENNETT ENVIRONMENTAL ASSOCIATES, INC. 1573 Main St., P.O. Box 1743 Brewster, MA. 02631			Project Name: <u>HECH/Habitat for Humanity</u> Project Location: <u>93 & 97 Rt. 28, W. Harwich</u> Project Number: <u>BEA16-10913</u>			Sheet <u>2 of 2</u> Boring No. <u>TB-101B/MW-101D</u> Location <u>Next to Driveway</u> Surface Elev. <u>9' NGVD +/-</u> Start Date <u>6/10/2016</u> Finish Date <u>6/10/2016</u> Driller <u>Jenkins</u> Inspector <u>TME</u>																														
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			Pen	Rec					
10-ft							Top/Subsoil		
	AF	0-10'	NA				Sand: Dark brown - tan, medium, clean, dry		
20-ft									
	AF	5-20'	NA				Sand: Tan-brown, medium, with trace coarse, wet		
30-ft									
	AF	10-30'	NA				Sand: A/A		
40-ft									
	AF	15-40'	NA				A/A		
50-ft									
	AF	42-43'	NA			ND	Sand: Brown, medium with silt, wet		
	AF	@45'	NA			ND	Clay: Blue-gray, wet		
60-ft									
70-ft									
80-ft									
90-ft									

Sand Gravel Silt Top/Sub Soil Clay Peat Fill	<u>Cohesive Soils</u> < 2 = very soft 2-4 = soft 4-8 = medium stiff 8-15 = stiff 15-30 = very stiff > 30 = hard	<u>Granular Soils</u> < 4 = very loose 5-10 = loose 11-30 = medium 30-50 = dense > 50 = very dense	<u>Sample Type</u> SS - split spoon ST - Shelby tube AF - auger flights RC - rock core MA - microliners HA - hand auger	SWL: 11' bgs (+/-) NOTES: Set 10' of #10 screen at approximately 45' bgs with Schedule 40 PVC to grade. Backfill with native material to 11' bgs (+/-), set 2' Bentonite plug and backfill to grade.
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1573 Main Street, P.O. Box 1743
Brewster, MA 02631

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, ENGINEERS

Phone: (508) 896-1706
Fax: (508) 896-5109

MONITORING WELL SAMPLING LOG

Job Name:	Habitat for Humanity	Date(s):	6/15/16	Time:	9:30 AM	Tide:	N/A
Location:	93 & 97 Rt. 28, West Harwich						
Sampler:	T. Everson, R. Trimble		Job Number:	BEA16-10913			
			Measuring Point:	Ground Surface or T.O.C		TOC	

[illegible]

NOTES: NA = Not Applicable; NE = Not Established; NT = Not Taken

Low-flow methodology

Wells sampled for VOCs (8260) upon meeting purge requirements and stabilization of field parameters.



ANALYTICAL REPORT

Lab Number:	L1618555
Client:	Bennett Environmental Associates 1573 Main Street Brewster, MA 02631
ATTN:	David Bennett
Phone:	(508) 896-1706
Project Name:	HABITAT FOR HUMANITY
Project Number:	BEA16-10913
Report Date:	06/23/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618555
Report Date: 06/23/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1618555-01	SVP-1	SOIL_VAPOR	W. HARWICH, MA	06/15/16 11:15	06/16/16
L1618555-02	SVP-2	SOIL_VAPOR	W. HARWICH, MA	06/15/16 11:48	06/16/16

Project Name: HABITAT FOR HUMANITY

Lab Number: L1618555

Project Number: BEA16-10913

Report Date: 06/23/16

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	YES
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618555
Report Date: 06/23/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618555
Report Date: 06/23/16

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on June 13, 2016. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

The WG906667-5 Laboratory Duplicate RPD, performed on L1618555-01, is above the acceptance criteria for 1,4-Dichlorobenzene (37%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

Petroleum Hydrocarbons in Air

All significant concentrations of non-petroleum VOCs detected in the TO-15 analysis were subtracted from the corresponding hydrocarbon ranges.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 06/23/16

AIR

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618555
Report Date: 06/23/16

SAMPLE RESULTS

Lab ID: L1618555-01
 Client ID: SVP-1
 Sample Location: W. HARWICH, MA
 Matrix: Soil_Vapor
 Analytical Method: 101,TO15-SIM
 Analytical Date: 06/23/16 08:48
 Analyst: RY

Date Collected: 06/15/16 11:15
 Date Received: 06/16/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Acetone	4.07	1.00	--	9.67	2.38	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.12	0.500	--	3.30	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.035	0.020	--	0.171	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.054	0.020	--	0.340	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.326	0.050	--	1.23	0.188	--		1



Project Name: HABITAT FOR HUMANITY**Lab Number:** L1618555**Project Number:** BEA16-10913**Report Date:** 06/23/16**SAMPLE RESULTS**

Lab ID: L1618555-01

Date Collected: 06/15/16 11:15

Client ID: SVP-1

Date Received: 06/16/16

Sample Location: W. HARWICH, MA

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.025	0.020	--	0.170	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.057	0.020	--	0.248	0.087	--		1
p/m-Xylene	0.212	0.040	--	0.921	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.284	0.020	--	1.21	0.085	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.098	0.020	--	0.426	0.087	--		1
1,3-Dichlorobenzene	0.049	0.020	--	0.295	0.120	--		1
1,4-Dichlorobenzene	0.029	0.020	--	0.174	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.414	0.050	--	2.17	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	62		60-140
bromochloromethane	72		60-140
chlorobenzene-d5	66		60-140



Project Name: HABITAT FOR HUMANITY**Project Number:** BEA16-10913**Lab Number:** L1618555**Report Date:** 06/23/16**SAMPLE RESULTS**

Lab ID: L1618555-02
Client ID: SVP-2
Sample Location: W. HARWICH, MA
Matrix: Soil_Vapor
Anaytical Method: 101,TO15-SIM
Analytical Date: 06/23/16 07:49
Analyst: RY

Date Collected: 06/15/16 11:48
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Acetone	4.27	1.00	--	10.1	2.38	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.674	0.500	--	1.99	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.027	0.020	--	0.132	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	0.025	0.020	--	0.136	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.039	0.020	--	0.245	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.127	0.050	--	0.479	0.188	--		1



Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618555
Report Date: 06/23/16

SAMPLE RESULTS

Lab ID: L1618555-02
 Client ID: SVP-2
 Sample Location: W. HARWICH, MA

Date Collected: 06/15/16 11:48
 Date Received: 06/16/16
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.029	0.020	--	0.126	0.087	--		1
p/m-Xylene	0.109	0.040	--	0.473	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.141	0.020	--	0.600	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.050	0.020	--	0.217	0.087	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.133	0.050	--	0.697	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	64		60-140
bromochloromethane	73		60-140
chlorobenzene-d5	67		60-140



Project Name: HABITAT FOR HUMANITY**Lab Number:** L1618555**Project Number:** BEA16-10913**Report Date:** 06/23/16

Method Blank Analysis Batch Quality Control

Analytical Method: 101,TO15-SIM

Analytical Date: 06/22/16 16:43

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG906667-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: HABITAT FOR HUMANITY

Lab Number: L1618555

Project Number: BEA16-10913

Report Date: 06/23/16

Method Blank Analysis Batch Quality Control

Analytical Method: 101,TO15-SIM

Analytical Date: 06/22/16 16:43

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG906667-4								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



Project Name: HABITAT FOR HUMANITY**Lab Number:** L1618555**Project Number:** BEA16-10913**Report Date:** 06/23/16

Method Blank Analysis Batch Quality Control

Analytical Method: 101,TO15-SIM

Analytical Date: 06/22/16 16:43

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG906667-4								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: HABITAT FOR HUMANITY

Project Number: BEA16-10913

Lab Number: L1618555

Report Date: 06/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG906667-3								
Propylene	92		-		70-130	-		
Dichlorodifluoromethane	82		-		70-130	-		
Chloromethane	86		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	84		-		70-130	-		
Vinyl chloride	85		-		70-130	-		
1,3-Butadiene	90		-		70-130	-		
Bromomethane	85		-		70-130	-		
Chloroethane	83		-		70-130	-		
Ethyl Alcohol	83		-		70-130	-		
Vinyl bromide	81		-		70-130	-		
Acetone	82		-		50-150	-		
Trichlorofluoromethane	83		-		70-130	-		
iso-Propyl Alcohol	82		-		70-130	-		
1,1-Dichloroethene	83		-		70-130	-		
Methylene chloride	84		-		70-130	-		
3-Chloropropene	89		-		70-130	-		
Carbon disulfide	81		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	83		-		70-130	-		
Halothane	85		-		70-130	-		
trans-1,2-Dichloroethene	78		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HABITAT FOR HUMANITY

Project Number: BEA16-10913

Lab Number: L1618555

Report Date: 06/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG906667-3								
Methyl tert butyl ether	100		-		70-130	-		
2-Butanone	97		-		70-130	-		
cis-1,2-Dichloroethene	108		-		70-130	-		
Ethyl Acetate	101		-		70-130	-		
Chloroform	98		-		70-130	-		
Tetrahydrofuran	102		-		70-130	-		
1,2-Dichloroethane	95		-		70-130	-		
n-Hexane	100		-		70-130	-		
1,1,1-Trichloroethane	105		-		70-130	-		
Benzene	99		-		70-130	-		
Carbon tetrachloride	105		-		70-130	-		
Cyclohexane	100		-		70-130	-		
1,2-Dichloropropane	101		-		70-130	-		
Bromodichloromethane	105		-		70-130	-		
1,4-Dioxane	99		-		50-150	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	105		-		70-130	-		
cis-1,3-Dichloropropene	104		-		70-130	-		
4-Methyl-2-pentanone	107		-		70-130	-		
trans-1,3-Dichloropropene	97		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HABITAT FOR HUMANITY

Project Number: BEA16-10913

Lab Number: L1618555

Report Date: 06/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG906667-3								
Toluene	98		-		70-130	-		
2-Hexanone	115		-		70-130	-		
Dibromochloromethane	105		-		70-130	-		
1,2-Dibromoethane	102		-		70-130	-		
Tetrachloroethene	93		-		70-130	-		
Chlorobenzene	97		-		70-130	-		
Ethylbenzene	103		-		70-130	-		
p/m-Xylene	108		-		70-130	-		
Bromoform	102		-		70-130	-		
Styrene	109		-		70-130	-		
1,1,2,2-Tetrachloroethane	101		-		70-130	-		
o-Xylene	106		-		70-130	-		
1,3,5-Trimethylbenzene	103		-		70-130	-		
1,2,4-Trimethylbenzene	108		-		70-130	-		
Benzyl chloride	110		-		70-130	-		
1,3-Dichlorobenzene	102		-		70-130	-		
1,4-Dichlorobenzene	93		-		70-130	-		
1,2-Dichlorobenzene	99		-		70-130	-		
1,2,4-Trichlorobenzene	95		-		50-150	-		
Naphthalene	99		-		50-150	-		
1,2,3-Trichlorobenzene	94		-		70-130	-		

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HABITAT FOR HUMANITY**Project Number:** BEA16-10913**Lab Number:** L1618555**Report Date:** 06/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG906667-3								
Hexachlorobutadiene	95		-		50-150	-		

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1618555
Report Date: 06/23/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG906667-5 QC Sample: L1618555-01 Client ID: SVP-1						
Vinyl chloride	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Acetone	4.07	4.14	ppbV	2		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	1.12	1.14	ppbV	2		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Chloroform	0.035	0.036	ppbV	3		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.054	0.053	ppbV	2		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25

Project Name: HABITAT FOR HUMANITY

Project Number: BEA16-10913

Lab Duplicate Analysis Batch Quality Control

Lab Number: L1618555

Report Date: 06/23/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG906667-5 QC Sample: L1618555-01 Client ID: SVP-1					
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	0.326	0.324	ppbV	1	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	0.025	0.024	ppbV	4	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	0.057	0.056	ppbV	2	25
p/m-Xylene	0.212	0.213	ppbV	0	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	0.284	0.284	ppbV	0	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	0.098	0.098	ppbV	0	25
1,3-Dichlorobenzene	0.049	0.054	ppbV	10	25
1,4-Dichlorobenzene	0.029	0.042	ppbV	37	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis

Batch Quality Control

Project Name: HABITAT FOR HUMANITY

Project Number: BEA16-10913

Lab Number: L1618555

Report Date: 06/23/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG906667-5 QC Sample: L1618555-01 Client ID: SVP-1					
Naphthalene	0.414	0.383	ppbV	8	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: HABITAT FOR HUMANITY**Lab Number:** L1618555**Project Number:** BEA16-10913**Report Date:** 06/23/16**SAMPLE RESULTS**

Lab ID: L1618555-01
Client ID: SVP-1
Sample Location: W. HARWICH, MA
Matrix: Soil_Vapor
Analytical Method: 96,APH
Analytical Date: 06/23/16 08:48
Analyst: RY

Date Collected: 06/15/16 11:15
Date Received: 06/16/16
Field Prep: Not Specified

Quality Control Information

Sample Type:	Composite
Sample Container Type:	Canister - 2.7 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	0.50	--	1
Methyl tert butyl ether	ND		ug/m3	0.70	--	1
Benzene	ND		ug/m3	0.60	--	1
C5-C8 Aliphatics, Adjusted	51		ug/m3	10	--	1
Toluene	1.1		ug/m3	0.90	--	1
Ethylbenzene	ND		ug/m3	0.90	--	1
p/m-Xylene	ND		ug/m3	0.90	--	1
o-Xylene	ND		ug/m3	0.90	--	1
Naphthalene	2.2		ug/m3	1.1	--	1
C9-C12 Aliphatics, Adjusted	120		ug/m3	10	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	67		50-200
Bromochloromethane	73		50-200
Chlorobenzene-d5	72		50-200

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618555
Report Date: 06/23/16

SAMPLE RESULTS

Lab ID: L1618555-02
Client ID: SVP-2
Sample Location: W. HARWICH, MA
Matrix: Soil_Vapor
Analytical Method: 96,APH
Analytical Date: 06/23/16 07:49
Analyst: RY

Date Collected: 06/15/16 11:48
Date Received: 06/16/16
Field Prep: Not Specified

Quality Control Information

Sample Type:	Composite
Sample Container Type:	Canister - 2.7 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	0.50	--	1
Methyl tert butyl ether	ND		ug/m3	0.70	--	1
Benzene	ND		ug/m3	0.60	--	1
C5-C8 Aliphatics, Adjusted	31		ug/m3	10	--	1
Toluene	ND		ug/m3	0.90	--	1
Ethylbenzene	ND		ug/m3	0.90	--	1
p/m-Xylene	ND		ug/m3	0.90	--	1
o-Xylene	ND		ug/m3	0.90	--	1
Naphthalene	ND		ug/m3	1.1	--	1
C9-C12 Aliphatics, Adjusted	28		ug/m3	10	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	68		50-200
Bromochloromethane	75		50-200
Chlorobenzene-d5	72		50-200

Project Name: HABITAT FOR HUMANITY

Lab Number: L1618555

Project Number: BEA16-10913

Report Date: 06/23/16

Method Blank Analysis Batch Quality Control

Analytical Method: 96,APH
 Analytical Date: 06/22/16 16:43
 Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01-02 Batch: WG906661-4					
1,3-Butadiene	ND		ug/m3	0.50	--
Methyl tert butyl ether	ND		ug/m3	0.70	--
Benzene	ND		ug/m3	0.60	--
C5-C8 Aliphatics, Adjusted	ND		ug/m3	10	--
Toluene	ND		ug/m3	0.90	--
Ethylbenzene	ND		ug/m3	0.90	--
p/m-Xylene	ND		ug/m3	0.90	--
o-Xylene	ND		ug/m3	0.90	--
Naphthalene	ND		ug/m3	1.1	--
C9-C12 Aliphatics, Adjusted	ND		ug/m3	10	--
C9-C10 Aromatics Total	ND		ug/m3	10	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: HABITAT FOR HUMANITY

Project Number: BEA16-10913

Lab Number: L1618555

Report Date: 06/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG906661-3								
1,3-Butadiene	92		-		70-130	-		
Methyl tert butyl ether	93		-		70-130	-		
Benzene	102		-		70-130	-		
C5-C8 Aliphatics, Adjusted	104		-		70-130	-		
Toluene	97		-		70-130	-		
Ethylbenzene	96		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
o-Xylene	97		-		70-130	-		
Naphthalene	102		-		50-150	-		
C9-C12 Aliphatics, Adjusted	93		-		70-130	-		
C9-C10 Aromatics Total	80		-		70-130	-		

Project Name: HABITAT FOR HUMANITY

Project Number: BEA16-10913

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1618555

Report Date: 06/23/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG906661-5 QC Sample: L1618555-01 Client ID: SVP-1						
1,3-Butadiene	ND	ND	ug/m3	NC		30
Methyl tert butyl ether	ND	ND	ug/m3	NC		30
Benzene	ND	ND	ug/m3	NC		30
C5-C8 Aliphatics, Adjusted	51	56	ug/m3	9		30
Toluene	1.1	1.2	ug/m3	9		30
Ethylbenzene	ND	ND	ug/m3	NC		30
p/m-Xylene	ND	ND	ug/m3	NC		30
o-Xylene	ND	ND	ug/m3	NC		30
Naphthalene	2.2	2.2	ug/m3	0		30
C9-C12 Aliphatics, Adjusted	120	120	ug/m3	0		30
C9-C10 Aromatics Total	ND	ND	ug/m3	NC		30

Project Name: HABITAT FOR HUMANITY

Serial_No:06231612:07
Lab Number: L1618555

Project Number: BEA16-10913

Report Date: 06/23/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1618555-01	SVP-1	0512	SV200	06/13/16	223876		-	-	-	Pass	221	205	8
L1618555-01	SVP-1	2192	2.7L Can	06/13/16	223876	L1617545-01	Pass	-29.5	-5.0	-	-	-	-
L1618555-02	SVP-2	0510	SV200	06/13/16	223876		-	-	-	Pass	224	206	8
L1618555-02	SVP-2	2249	2.7L Can	06/13/16	223876	L1617545-01	Pass	-29.7	-5.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1617545
Report Date: 06/23/16

Air Canister Certification Results

Lab ID: L1617545-01
Client ID: CAN 560 SHELF 2
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 06/09/16 16:07
Analyst: RY

Date Collected: 06/08/16 16:00
Date Received: 06/09/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1617545
Report Date: 06/23/16

Air Canister Certification Results

Lab ID: L1617545-01
Client ID: CAN 560 SHELF 2
Sample Location:

Date Collected: 06/08/16 16:00
Date Received: 06/09/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1617545
Report Date: 06/23/16

Air Canister Certification Results

Lab ID: L1617545-01
Client ID: CAN 560 SHELF 2
Sample Location:

Date Collected: 06/08/16 16:00
Date Received: 06/09/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1617545
Report Date: 06/23/16

Air Canister Certification Results

Lab ID: L1617545-01
Client ID: CAN 560 SHELF 2
Sample Location:

Date Collected: 06/08/16 16:00
Date Received: 06/09/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1617545**Project Number:** CANISTER QC BAT**Report Date:** 06/23/16**Air Canister Certification Results**

Lab ID: L1617545-01

Date Collected: 06/08/16 16:00

Client ID: CAN 560 SHELF 2

Date Received: 06/09/16

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	81		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1617545
Report Date: 06/23/16

Air Canister Certification Results

Lab ID: L1617545-01
Client ID: CAN 560 SHELF 2
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 06/09/16 16:07
Analyst: RY

Date Collected: 06/08/16 16:00
Date Received: 06/09/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1617545
Report Date: 06/23/16

Air Canister Certification Results

Lab ID: L1617545-01
Client ID: CAN 560 SHELF 2
Sample Location:

Date Collected: 06/08/16 16:00
Date Received: 06/09/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1617545**Project Number:** CANISTER QC BAT**Report Date:** 06/23/16**Air Canister Certification Results**

Lab ID: L1617545-01

Date Collected: 06/08/16 16:00

Client ID: CAN 560 SHELF 2

Date Received: 06/09/16

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	84		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	82		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1617545**Project Number:** CANISTER QC BAT**Report Date:** 06/23/16**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1617545-01
Client ID: CAN 560 SHELF 2
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 06/09/16 16:07
Analyst: RY

Date Collected: 06/08/16 16:00
Date Received: 06/09/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air						
1,3-Butadiene	ND		ug/m3	0.50	--	1
Methyl tert butyl ether	ND		ug/m3	0.70	--	1
Benzene	ND		ug/m3	0.60	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	10	--	1
Toluene	ND		ug/m3	0.90	--	1
Ethylbenzene	ND		ug/m3	0.90	--	1
p/m-Xylene	ND		ug/m3	0.90	--	1
o-Xylene	ND		ug/m3	0.90	--	1
Naphthalene	ND		ug/m3	1.1	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	10	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: HABITAT FOR HUMANITY**Project Number:** BEA16-10913**Lab Number:** L1618555**Report Date:** 06/23/16**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

N/A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1618555-01A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	MCP-TO15-SIM(30),APH-10(30)
L1618555-02A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	MCP-TO15-SIM(30),APH-10(30)

*Values in parentheses indicate holding time in days

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618555
Report Date: 06/23/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: Data Usability Report



Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618555
Report Date: 06/23/16

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618555
Report Date: 06/23/16

REFERENCES

- 96 Method for the Determination of Air-Phase Petroleum Hydrocarbons (APH), MassDEP, December 2009, Revision 1 with QC Requirements & Performance Standards for the Analysis of APH by GC/MS under the Massachusetts Contingency Plan, WSC-CAM-IXA, July 2010.
- 101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene

EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene

EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.

EPA 1010A: NPW: Ignitability

EPA 6010C: NPW: Strontium; SCM: Strontium

EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation

EPA 9038: NPW: Sulfate

EPA 9050A: NPW: Specific Conductance

EPA 9056: NPW: Chloride, Nitrate, Sulfate

EPA 9065: NPW: Phenols

EPA 9251: NPW: Chloride

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam

EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane

SM 2540D: TSS

SM2540G: SCM: Percent Solids

EPA 1631E: SCM: Mercury

EPA 7474: SCM: Mercury

EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA 8270-SIM: NPW and SCM: Alkylated PAHs.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1,**

SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH₃-BH, EPA

350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D,**

EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

LOCATION				SVP-1	SVP-2
SAMPLING DATE				6/15/2016	6/15/2016
LAB SAMPLE ID				L1618555-01	L1618555-02
	CasNum	MA-RSSG	Units		
MCP Volatile Organics in Air by SIM					
Vinyl chloride	75-01-4	19	ug/m3	ND(0.0255)	ND(0.0255)
Bromomethane	74-83-9	42	ug/m3	ND(0.039)	ND(0.039)
Acetone	67-64-1	6400	ug/m3	9.67	10.1
1,1-Dichloroethene	75-35-4	56	ug/m3	ND(0.0395)	ND(0.0395)
Methylene chloride	75-09-2	770	ug/m3	ND(0.87)	ND(0.87)
trans-1,2-Dichloroethene	156-60-5	56	ug/m3	ND(0.0395)	ND(0.0395)
1,1-Dichloroethane	75-34-3	56	ug/m3	ND(0.0405)	ND(0.0405)
Methyl tert butyl ether	1634-04-4	2700	ug/m3	ND(0.3605)	ND(0.3605)
2-Butanone	78-93-3	840	ug/m3	3.3	1.99
cis-1,2-Dichloroethene	156-59-2	56	ug/m3	ND(0.0395)	ND(0.0395)
Chloroform	67-66-3	130	ug/m3	0.171	0.132
1,2-Dichloroethane	107-06-2	6.3	ug/m3	ND(0.0405)	ND(0.0405)
1,1,1-Trichloroethane	71-55-6	210	ug/m3	ND(0.0545)	0.136
Benzene	71-43-2	160	ug/m3	ND(0.1595)	ND(0.1595)
Carbon tetrachloride	56-23-5	38	ug/m3	0.34	0.245
1,2-Dichloropropane	78-87-5	8.4	ug/m3	ND(0.046)	ND(0.046)
Bromodichloromethane	75-27-4	9.1	ug/m3	ND(0.067)	ND(0.067)
1,4-Dioxane	123-91-1	40	ug/m3	ND(0.18)	ND(0.18)
Trichloroethene	79-01-6	28	ug/m3	ND(0.0535)	ND(0.0535)
cis-1,3-Dichloropropene	10061-01-5	41	ug/m3	ND(0.0455)	ND(0.0455)
4-Methyl-2-pentanone	108-10-1	150	ug/m3	ND(1.025)	ND(1.025)
trans-1,3-Dichloropropene	10061-02-6	41	ug/m3	ND(0.0455)	ND(0.0455)
1,1,2-Trichloroethane	79-00-5	11	ug/m3	ND(0.0545)	ND(0.0545)
Toluene	108-88-3	3800	ug/m3	1.23	0.479
Dibromochloromethane	124-48-1	6.8	ug/m3	ND(0.085)	ND(0.085)
1,2-Dibromoethane	106-93-4	0.55	ug/m3	ND(0.077)	ND(0.077)
Tetrachloroethene	127-18-4	98	ug/m3	0.17	ND(0.068)
Chlorobenzene	108-90-7	160	ug/m3	ND(0.2305)	ND(0.2305)
Ethylbenzene	100-41-4	520	ug/m3	0.248	0.126
p/m-Xylene	179601-23-1		ug/m3	0.921	0.473
Bromoform	75-25-2	150	ug/m3	ND(0.1035)	ND(0.1035)
Styrene	100-42-5	98	ug/m3	1.21	0.6
1,1,2,2-Tetrachloroethane	79-34-5	2.8	ug/m3	ND(0.0685)	ND(0.0685)
o-Xylene	95-47-6		ug/m3	0.426	0.217
1,3-Dichlorobenzene	541-73-1	42	ug/m3	0.295	ND(0.06)
1,4-Dichlorobenzene	106-46-7	35	ug/m3	0.174	ND(0.06)
1,2-Dichlorobenzene	95-50-1	50	ug/m3	ND(0.06)	ND(0.06)
1,2,4-Trichlorobenzene	120-82-1	240	ug/m3	ND(0.1855)	ND(0.1855)
Naphthalene	91-20-3	42	ug/m3	2.17	0.697
Hexachlorobutadiene	87-68-3	7.7	ug/m3	ND(0.2665)	ND(0.2665)
Petroleum Hydrocarbons in Air					
1,3-Butadiene	106-99-0		ug/m3	ND(0.25)	ND(0.25)
Methyl tert butyl ether	1634-04-4	2700	ug/m3	ND(0.35)	ND(0.35)
Benzene	71-43-2	160	ug/m3	ND(0.3)	ND(0.3)
C5-C8 Aliphatics, Adjusted	C5-C8-ALPHA-J	4100	ug/m3	51	31
Toluene	108-88-3	3800	ug/m3	1.1	ND(0.45)
Ethylbenzene	100-41-4	520	ug/m3	ND(0.45)	ND(0.45)
p/m-Xylene	179601-23-1		ug/m3	ND(0.45)	ND(0.45)
o-Xylene	95-47-6		ug/m3	ND(0.45)	ND(0.45)
Naphthalene	91-20-3	42	ug/m3	2.2	ND(0.55)
C9-C12 Aliphatics, Adjusted	C9-C12-ALPHA-J	4800	ug/m3	120	28
C9-C10 Aromatics Total	C9-C10-ALPHA-UJ	700	ug/m3	ND(5)	ND(5)

*MA-RSSGV: Residential Sub-slab :



ANALYTICAL REPORT

Lab Number:	L1618547
Client:	Bennett Environmental Associates 1573 Main Street Brewster, MA 02631
ATTN:	David Bennett
Phone:	(508) 896-1706
Project Name:	HABITAT FOR HUMANITY
Project Number:	BEA16-10913
Report Date:	06/27/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1618547-01	MW-101S	WATER	WEST HARWICH, MA	06/15/16 10:40	06/16/16
L1618547-02	MW-101D	WATER	WEST HARWICH, MA	06/15/16 11:45	06/16/16

Project Name: HABITAT FOR HUMANITY

Lab Number: L1618547

Project Number: BEA16-10913

Report Date: 06/27/16

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

In reference to question H:

The initial calibration, associated with L1618547-01 and -02, did not meet the method required minimum response factor on the lowest calibration standard for 2-butanone (0.08843) and 1,4-dioxane (0.00235), as well as the average response factor for 2-butanone and 1,4-dioxane.

The continuing calibration standard, associated with L1618547-01 and -02, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lura L Troy

Title: Technical Director/Representative

Date: 06/27/16

ORGANICS

VOLATILES

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

SAMPLE RESULTS

Lab ID: L1618547-01
Client ID: MW-101S
Sample Location: WEST HARWICH, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 06/24/16 14:00
Analyst: PK

Date Collected: 06/15/16 10:40
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: HABITAT FOR HUMANITY

Lab Number: L1618547

Project Number: BEA16-10913

Report Date: 06/27/16

SAMPLE RESULTS

Lab ID: L1618547-01

Date Collected: 06/15/16 10:40

Client ID: MW-101S

Date Received: 06/16/16

Sample Location: WEST HARWICH, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

SAMPLE RESULTS

Lab ID: L1618547-01
Client ID: MW-101S
Sample Location: WEST HARWICH, MA

Date Collected: 06/15/16 10:40
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	100		70-130

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

SAMPLE RESULTS

Lab ID: L1618547-02
Client ID: MW-101D
Sample Location: WEST HARWICH, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 06/24/16 14:33
Analyst: PK

Date Collected: 06/15/16 11:45
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: HABITAT FOR HUMANITY

Lab Number: L1618547

Project Number: BEA16-10913

Report Date: 06/27/16

SAMPLE RESULTS

Lab ID: L1618547-02

Date Collected: 06/15/16 11:45

Client ID: MW-101D

Date Received: 06/16/16

Sample Location: WEST HARWICH, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

SAMPLE RESULTS

Lab ID: L1618547-02
Client ID: MW-101D
Sample Location: WEST HARWICH, MA

Date Collected: 06/15/16 11:45
Date Received: 06/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	97		70-130

Project Name: HABITAT FOR HUMANITY

Lab Number: L1618547

Project Number: BEA16-10913

Report Date: 06/27/16

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 06/24/16 11:46
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG908006-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--

Project Name: HABITAT FOR HUMANITY

Lab Number: L1618547

Project Number: BEA16-10913

Report Date: 06/27/16

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 06/24/16 11:46
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG908006-3					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--

Project Name: HABITAT FOR HUMANITY

Lab Number: L1618547

Project Number: BEA16-10913

Report Date: 06/27/16

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 06/24/16 11:46
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG908006-3					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG908006-1 WG908006-2								
Methylene chloride	97		91		70-130	6		20
1,1-Dichloroethane	93		90		70-130	3		20
Chloroform	92		91		70-130	1		20
Carbon tetrachloride	77		86		70-130	11		20
1,2-Dichloropropane	98		99		70-130	1		20
Dibromochloromethane	91		94		70-130	3		20
1,1,2-Trichloroethane	104		106		70-130	2		20
Tetrachloroethene	85		98		70-130	14		20
Chlorobenzene	95		98		70-130	3		20
Trichlorofluoromethane	70		80		70-130	13		20
1,2-Dichloroethane	90		92		70-130	2		20
1,1,1-Trichloroethane	81		92		70-130	13		20
Bromodichloromethane	94		91		70-130	3		20
trans-1,3-Dichloropropene	93		98		70-130	5		20
cis-1,3-Dichloropropene	94		92		70-130	2		20
1,1-Dichloropropene	85		96		70-130	12		20
Bromoform	87		95		70-130	9		20
1,1,2,2-Tetrachloroethane	106		117		70-130	10		20
Benzene	92		94		70-130	2		20
Toluene	93		101		70-130	8		20
Ethylbenzene	87		93		70-130	7		20



Lab Control Sample Analysis
Batch Quality Control

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG908006-1 WG908006-2								
Chloromethane	90		96		70-130		6	20
Bromomethane	88		61	Q	70-130	Q	36	20
Vinyl chloride	92		102		70-130		10	20
Chloroethane	88		93		70-130		6	20
1,1-Dichloroethene	79		91		70-130		14	20
trans-1,2-Dichloroethene	87		90		70-130		3	20
Trichloroethene	92		92		70-130		0	20
1,2-Dichlorobenzene	94		102		70-130		8	20
1,3-Dichlorobenzene	95		103		70-130		8	20
1,4-Dichlorobenzene	95		101		70-130		6	20
Methyl tert butyl ether	89		91		70-130		2	20
p/m-Xylene	88		93		70-130		6	20
o-Xylene	86		93		70-130		8	20
cis-1,2-Dichloroethene	96		95		70-130		1	20
Dibromomethane	96		94		70-130		2	20
1,2,3-Trichloropropane	103		114		70-130		10	20
Styrene	90		96		70-130		6	20
Dichlorodifluoromethane	74		92		70-130	Q	22	20
Acetone	110		100		70-130		10	20
Carbon disulfide	86		86		70-130		0	20
2-Butanone	91		100		70-130		9	20



Lab Control Sample Analysis
Batch Quality Control

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG908006-1 WG908006-2								
4-Methyl-2-pentanone	85		98		70-130		14	20
2-Hexanone	92		100		70-130		8	20
Bromochloromethane	97		98		70-130		1	20
Tetrahydrofuran	108		110		70-130		2	20
2,2-Dichloropropane	84		88		70-130		5	20
1,2-Dibromoethane	97		102		70-130		5	20
1,3-Dichloropropane	104		108		70-130		4	20
1,1,1,2-Tetrachloroethane	91		94		70-130		3	20
Bromobenzene	98		108		70-130		10	20
n-Butylbenzene	81		92		70-130		13	20
sec-Butylbenzene	77		92		70-130		18	20
tert-Butylbenzene	83		93		70-130		11	20
o-Chlorotoluene	93		101		70-130		8	20
p-Chlorotoluene	95		100		70-130		5	20
1,2-Dibromo-3-chloropropane	88		95		70-130		8	20
Hexachlorobutadiene	87		101		70-130		15	20
Isopropylbenzene	87		97		70-130		11	20
p-Isopropyltoluene	83		94		70-130		12	20
Naphthalene	100		112		70-130		11	20
n-Propylbenzene	87		98		70-130		12	20
1,2,3-Trichlorobenzene	95		112		70-130		16	20



Lab Control Sample Analysis
Batch Quality Control

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG908006-1 WG908006-2								
1,2,4-Trichlorobenzene	97		106		70-130		9	20
1,3,5-Trimethylbenzene	87		94		70-130		8	20
1,2,4-Trimethylbenzene	92		99		70-130		7	20
Ethyl ether	99		100		70-130		1	20
Isopropyl Ether	96		95		70-130		1	20
Ethyl-Tert-Butyl-Ether	96		97		70-130		1	20
Tertiary-Amyl Methyl Ether	89		92		70-130		3	20
1,4-Dioxane	89		92		70-130		3	20

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	99		95		70-130	
Toluene-d8	109		107		70-130	
4-Bromofluorobenzene	86		94		70-130	
Dibromofluoromethane	99		98		70-130	



Project Name: HABITAT FOR HUMANITY**Project Number:** BEA16-10913**Lab Number:** L1618547**Report Date:** 06/27/16**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1618547-01A	Vial HCl preserved	B	N/A	5.8	Y	Absent	MCP-8260-10(14)
L1618547-01B	Vial HCl preserved	B	N/A	5.8	Y	Absent	MCP-8260-10(14)
L1618547-01C	Vial HCl preserved	B	N/A	5.8	Y	Absent	MCP-8260-10(14)
L1618547-02A	Vial HCl preserved	B	N/A	5.8	Y	Absent	MCP-8260-10(14)
L1618547-02B	Vial HCl preserved	B	N/A	5.8	Y	Absent	MCP-8260-10(14)
L1618547-02C	Vial HCl preserved	B	N/A	5.8	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: Data Usability Report



Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HABITAT FOR HUMANITY
Project Number: BEA16-10913

Lab Number: L1618547
Report Date: 06/27/16

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene

EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene

EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.

EPA 1010A: NPW: Ignitability

EPA 6010C: NPW: Strontium; SCM: Strontium

EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation

EPA 9038: NPW: Sulfate

EPA 9050A: NPW: Specific Conductance

EPA 9056: NPW: Chloride, Nitrate, Sulfate

EPA 9065: NPW: Phenols

EPA 9251: NPW: Chloride

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam

EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane

SM 2540D: TSS

SM2540G: SCM: Percent Solids

EPA 1631E: SCM: Mercury

EPA 7474: SCM: Mercury

EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA 8270-SIM: NPW and SCM: Alkylated PAHs.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1,**

SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH₃-BH, EPA

350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D,**

EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

7A
Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1618547

Instrument ID: Jack.i Calibration Date: 24-JUN-2016 Time: 10:06

Lab File ID: VJ160624A0 Init. Calib. Date(s): 06-JUN-2 06-JUN-2

Sample No: 8260 CAL Init. Calib. Times : 20:37 23:57

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.38667	.28742	.1	-26	20	F
chloromethane	.47656	.4287	.1	-10	20	
vinyl chloride	.45298	.41526	.1	-8	20	
bromomethane	100	88.445	.1	-12	20	
chloroethane	.27025	.23827	.1	-12	20	
trichlorofluoromethane	.6309	.44293	.1	-30	20	F
ethyl ether	.16013	.15874	.05	-1	20	
1,1,-dichloroethene	.36693	.29112	.1	-21	20	F
carbon disulfide	1.2127	1.0367	.1	-15	20	
methylene chloride	.39591	.38229	.1	-3	20	
acetone	100	110	.1	10	20	
trans-1,2-dichloroethene	.39993	.34969	.1	-13	20	
methyl tert butyl ether	.76151	.68059	.1	-11	20	
Diisopropyl Ether	1.1399	1.0884	.01	-5	20	
1,1-dichloroethane	.7442	.69527	.2	-7	20	
Ethyl-Tert-Butyl-Ether	.95215	.91269	.05	-4	20	
cis-1,2-dichloroethene	.41275	.3942	.1	-4	20	
2,2-dichloropropane	.61231	.51556	.05	-16	20	
bromochloromethane	.16993	.16531	.05	-3	20	
chloroform	.6966	.63864	.2	-8	20	
carbontetrachloride	.50537	.38766	.1	-23	20	F
tetrahydrofuran	100	108	.05	8	20	
1,1,1-trichloroethane	.62508	.50518	.1	-19	20	
1,1-dichloropropene	.57905	.49274	.05	-15	20	
2-butanone	.08239	.07466	.1	-9	20	F
benzene	1.7174	1.5836	.5	-8	20	
Tertiary-Amyl Methyl Ether	.82379	.73281	.05	-11	20	
1,2-dichloroethane	.47765	.43131	.1	-10	20	
trichloroethene	.4263	.39025	.2	-8	20	
dibromomethane	.19219	.18382	.05	-4	20	
1,2-dichloropropane	.39142	.38178	.1	-2	20	
bromodichloromethane	.49759	.46508	.2	-7	20	
1,4-dioxane	.00279	.00249	.05	-11	20	F
cis-1,3-dichloropropene	.63719	.59584	.2	-6	20	
toluene	1.2363	1.1517	.4	-7	20	
tetrachloroethene	.56718	.4816	.2	-15	20	
4-methyl-2-pentanone	100	85.107	.1	-15	20	
trans-1,3-dichloropropene	.59283	.55393	.1	-7	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1618547

Instrument ID: Jack.i Calibration Date: 24-JUN-2016 Time: 10:06

Lab File ID: VJ160624A0 Init. Calib. Date(s): 06-JUN-2 06-JUN-2

Sample No: 8260 CAL Init. Calib. Times : 20:37 23:57

Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,1,2-trichloroethane	.27126	.28089	.1	4	20
chlorodibromomethane	.37725	.3445	.1	-9	20
1,3-dichloropropane	.56683	.59012	.05	4	20
1,2-dibromoethane	.32712	.31854	.1	-3	20
2-hexanone	.15452	.14177	.1	-8	20
chlorobenzene	1.4474	1.3739	.5	-5	20
ethyl benzene	2.7202	2.3773	.1	-13	20
1,1,1,2-tetrachloroethane	.48137	.43636	.05	-9	20
p/m xylene	1.0726	.93978	.1	-12	20
o xylene	1.0702	.9193	.3	-14	20
styrene	1.7713	1.5939	.3	-10	20
bromoform	.36382	.31494	.1	-13	20
isopropylbenzene	3.9131	3.4113	.1	-13	20
bromobenzene	.93866	.91853	.05	-2	20
n-propylbenzene	4.8670	4.2421	.05	-13	20
1,1,2,2,-tetrachloroethane	.60955	.64778	.3	6	20
2-chlorotoluene	3.2444	3.0111	.05	-7	20
1,2,3-trichloropropane	.49091	.50371	.05	3	20
1,3,5-trimethylbenzene	3.5095	3.0653	.05	-13	20
4-chlorotoluene	3.0349	2.8958	.05	-5	20
tert-butylbenzene	2.9442	2.4418	.05	-17	20
1,2,4-trimethylbenzene	3.5091	3.2475	.05	-7	20
sec-butylbenzene	4.2999	3.2980	.01	-23	20
p-isopropyltoluene	3.5769	2.9588	.05	-17	20
1,3-dichlorobenzene	2.0150	1.9053	.6	-5	20
1,4-dichlorobenzene	2.0309	1.9253	.5	-5	20
n-butylbenzene	2.9910	2.4282	.05	-19	20
1,2-dichlorobenzene	1.8358	1.7230	.4	-6	20
1,2-dibromo-3-chloropropane	.12016	.10536	.05	-12	20
1,2,4-trichlorobenzene	1.0227	.99054	.2	-3	20
hexachlorobutadiene	.43392	.37899	.05	-13	20
naphthalene	2.0052	2.0107	.05	0	20
1,2,3-trichlorobenzene	.85295	.8112	.05	-5	20
=====	=====	=====	=====	=====	=====
dibromofluoromethane	.2364	.23318	.05	-1	20
1,2-dichloroethane-d4	.26483	.26339	.05	-1	20
toluene-d8	1.1646	1.2743	.01	9	20
4-bromofluorobenzene	.72926	.62775	.05	-14	20

F

FORM VII MCP-8260-10

Sample Results Comparison with Reportable Concentrations RCGW-1 Criteria.								
CLIENT SAMPLE ID					MW-101S		MW-101D	
SAMPLING DATE					15-JUN-16		15-JUN-16	
LAB SAMPLE ID					L1618547-01		L1618547-02	
	CAS Number	RCGW-1-14	Units		Qual		Qual	
MCP Volatile Organics								
1,1,1,2-Tetrachloroethane	630-20-6	0.005	mg/l	0.001	U	0.001	U	
1,1,1-Trichloroethane	71-55-6	0.2	mg/l	0.001	U	0.001	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.002	mg/l	0.001	U	0.001	U	
1,1,2-Trichloroethane	79-00-5	0.005	mg/l	0.001	U	0.001	U	
1,1-Dichloroethane	75-34-3	0.07	mg/l	0.001	U	0.001	U	
1,1-Dichloroethene	75-35-4	0.007	mg/l	0.001	U	0.001	U	
1,1-Dichloropropene	563-58-6		mg/l	0.002	U	0.002	U	
1,2,3-Trichlorobenzene	87-61-6		mg/l	0.002	U	0.002	U	
1,2,4-Trichlorobenzene	96-18-4	1	mg/l	0.002	U	0.002	U	
1,2,4-Trichlorobenzene	120-82-1	0.07	mg/l	0.002	U	0.002	U	
1,2,4-Trimethylbenzene	95-63-6	10	mg/l	0.002	U	0.002	U	
1,2-Dibromo-3-chloropropane	96-12-8	0.1	mg/l	0.002	U	0.002	U	
1,2-Dibromomethane	106-93-4	0.00002	mg/l	0.002	U	0.002	U	
1,2-Dichlorobenzene	95-50-1	0.6	mg/l	0.001	U	0.001	U	
1,2-Dichloroethane	107-06-2	0.005	mg/l	0.001	U	0.001	U	
1,2-Dichloroethene (total)	540-59-0		mg/l	0.001	U	0.001	U	
1,2-Dichloropropane	78-87-5	0.003	mg/l	0.001	U	0.001	U	
1,3,5-Trimethylbenzene	108-67-8	0.1	mg/l	0.002	U	0.002	U	
1,3-Dichlorobenzene	541-73-1	0.1	mg/l	0.001	U	0.001	U	
1,3-Dichloropropane	142-28-9	5	mg/l	0.002	U	0.002	U	
1,3-Dichloropropene, Total	542-75-6	0.0004	mg/l	0.0005	U	0.0005	U	
1,4-Dichlorobenzene	106-46-7	0.005	mg/l	0.001	U	0.001	U	
1,4-Dioxane	123-91-1	0.0003	mg/l	0.25	U	0.25	U	
2,2-Dichloropropane	594-20-7		mg/l	0.002	U	0.002	U	
2-Butanone	78-93-3	4	mg/l	0.005	U	0.005	U	
2-Hexanone	591-78-6	1	mg/l	0.005	U	0.005	U	
4-Methyl-2-pentanone	108-10-1	0.35	mg/l	0.005	U	0.005	U	
Acetone	67-64-1	6.3	mg/l	0.005	U	0.005	U	
Benzene	71-43-2	0.005	mg/l	0.0005	U	0.0005	U	
Bromobenzene	108-86-1	1	mg/l	0.002	U	0.002	U	
Bromochloromethane	74-97-5		mg/l	0.002	U	0.002	U	
Bromodichloromethane	75-27-4	0.003	mg/l	0.001	U	0.001	U	
Bromoform	75-25-2	0.004	mg/l	0.002	U	0.002	U	
Bromomethane	74-83-9	0.007	mg/l	0.002	U	0.002	U	
Carbon disulfide	75-15-0	1	mg/l	0.002	U	0.002	U	
Carbon tetrachloride	56-23-5	0.002	mg/l	0.001	U	0.001	U	
Chlorobenzene	108-90-7	0.1	mg/l	0.001	U	0.001	U	
Chloroethane	75-00-3	1	mg/l	0.002	U	0.002	U	
Chloroform	67-66-3	0.05	mg/l	0.001	U	0.001	U	
Chloromethane	74-87-3	1	mg/l	0.002	U	0.002	U	
cis-1,2-Dichloroethene	156-59-2	0.02	mg/l	0.001	U	0.001	U	
cis-1,3-Dichloropropene	10061-01-5	0.0004	mg/l	0.0005	U	0.0005	U	
Dibromochloromethane	124-48-1	0.002	mg/l	0.001	U	0.001	U	
Dibromomethane	74-95-3	5	mg/l	0.002	U	0.002	U	
Dichlorodifluoromethane	75-71-8	10	mg/l	0.002	U	0.002	U	
Ethyl ether	60-29-7	1	mg/l	0.002	U	0.002	U	
Ethyl-Tert-Butyl-Ether	637-92-3		mg/l	0.002	U	0.002	U	
Ethylbenzene	100-41-4	0.7	mg/l	0.001	U	0.001	U	
Hexachlorobutadiene	87-68-3	0.0006	mg/l	0.0006	U	0.0006	U	
Isopropyl Ether	108-20-3	1	mg/l	0.002	U	0.002	U	
Isopropylbenzene	98-82-8	10	mg/l	0.002	U	0.002	U	
Methyl tert butyl ether	1634-04-4	0.07	mg/l	0.002	U	0.002	U	
Methylene chloride	75-09-2	0.005	mg/l	0.002	U	0.002	U	
n-Butylbenzene	104-51-8		mg/l	0.002	U	0.002	U	
n-Propylbenzene	103-65-1	1	mg/l	0.002	U	0.002	U	
Naphthalene	91-20-3	0.14	mg/l	0.002	U	0.002	U	
o-Chlorotoluene	95-49-8	1	mg/l	0.002	U	0.002	U	
o-Xylene	95-47-6	3	mg/l	0.001	U	0.001	U	
p-Chlorotoluene	106-43-4		mg/l	0.002	U	0.002	U	
p-Isopropyltoluene	99-87-6	1	mg/l	0.002	U	0.002	U	
p/m-Xylene	179601-23-1	3	mg/l	0.002	U	0.002	U	
sec-Butylbenzene	135-98-8		mg/l	0.002	U	0.002	U	
Styrene	100-42-5	0.1	mg/l	0.001	U	0.001	U	
tert-Butylbenzene	98-06-6	1	mg/l	0.002	U	0.002	U	
Tertiary-Amyl Methyl Ether	994-05-8		mg/l	0.002	U	0.002	U	
Tetrachloroethene	127-18-4	0.005	mg/l	0.001	U	0.001	U	
Tetrahydrofuran	109-99-9	5	mg/l	0.002	U	0.002	U	
Toluene	108-88-3	1	mg/l	0.002	U	0.001	U	
trans-1,2-Dichloroethene	156-60-5	0.08	mg/l	0.001	U	0.001	U	
trans-1,3-Dichloropropene	10061-02-6	0.0004	mg/l	0.0005	U	0.0005	U	
Trichloroethene	79-01-6	0.005	mg/l	0.001	U	0.001	U	
Trichlorofluoromethane	75-69-4	10	mg/l	0.002	U	0.002	U	
Vinyl chloride	75-01-4	0.002	mg/l	0.001	U	0.001	U	
Xylene (Total)	1330-20-7	3	mg/l	0.001	U	0.001	U	
Alpha Analytical Labs provides this custom reporting format as a convenience to our clients. As such, we cannot be held liable for errors or omissions associated with the regulatory standards listed above and/or the sample results highlighted by comparison with the standards (Effective as of April 25, 2014).								
Only compounds detected with reporting limits that exceed the corresponding regulatory standard in at least one sample are included on the summary sheets.								
Refer to the laboratory report in Adobe Acrobat (.PDF) format to check results or read any associated project narrative that may be present. In all cases, the signed, hardcopy Alpha Analytical Labs laboratory report is the official document for reporting laboratory results.								

Department of Housing and Community Development
Chapter 40B Subsidized Housing Inventory (SHI)
as of December 5, 2014

Community	2010 Census Year Round Housing Units	Total Development Units	SHI Units	%
Abington	6,364	511	478	7.5%
Acton	8,475	1,107	551	6.5%
Acushnet	4,097	133	103	2.5%
Adams	4,337	321	321	7.4%
Agawam	12,090	499	467	3.9%
Alford	231	0	0	0.0%
Amesbury	7,041	869	505	7.2%
Amherst	9,621	1,081	1,034	10.7%
Andover	12,324	1,428	1,145	9.3%
Aquinnah	158	41	41	25.9%
Arlington	19,881	1,429	1,121	5.6%
Ashburnham	2,272	147	32	1.4%
Ashby	1,150	0	0	0.0%
Ashfield	793	2	2	0.3%
Ashland	6,581	346	241	3.7%
Athol	5,148	247	247	4.8%
Attleboro	17,978	1,177	1,177	6.5%
Auburn	6,808	242	242	3.6%
Avon	1,763	74	74	4.2%
Ayer	3,440	456	290	8.4%
Barnstable	20,550	1,832	1,373	6.7%
Barre	2,164	83	83	3.8%
Becket	838	0	0	0.0%
Bedford	5,322	1,087	902	16.9%
Belchertown	5,771	398	372	6.4%
Bellingham	6,341	702	537	8.5%
Belmont	10,117	392	380	3.8%
Berkley	2,169	139	24	1.1%
Berlin	1,183	222	65	5.5%
Bernardston	930	24	24	2.6%
Beverly	16,522	2,142	1,946	11.8%
Billerica	14,442	1,487	857	5.9%
Blackstone	3,606	165	123	3.4%
Blandford	516	1	1	0.2%
Bolton	1,729	192	64	3.7%
Boston	269,482	52,453	49,324	18.3%
Bourne	8,584	1,227	596	6.9%
Boxborough	2,062	327	24	1.2%
Boxford	2,730	64	23	0.8%

Boylston	1,765	26	24	1.4%
Braintree	14,260	1,636	1,098	7.7%
Brewster	4,803	293	246	5.1%
Bridgewater	8,288	579	524	6.3%
Brimfield	1,491	80	80	5.4%
Brockton	35,514	4,485	4,485	12.6%
Brookfield	1,452	47	41	2.8%
Brookline	26,201	2,634	2,111	8.1%
Buckland	866	3	3	0.3%
Burlington	9,627	1,395	993	10.3%
Cambridge	46,690	7,174	7,084	15.2%
Canton	8,710	1,180	1,075	12.3%
Carlisle	1,740	52	46	2.6%
Carver	4,514	146	146	3.2%
Charlemont	615	3	3	0.5%
Charlton	4,774	83	83	1.7%
Chatham	3,460	176	170	4.9%
Chelmsford	13,741	1,545	1,169	8.5%
Chelsea	12,592	2,130	2,125	16.9%
Cheshire	1,481	0	0	0.0%
Chester	585	22	22	3.8%
Chesterfield	524	17	17	3.2%
Chicopee	25,074	2,588	2,551	10.2%
Chilmark	418	3	3	0.7%
Clarksburg	706	8	8	1.1%
Clinton	6,375	549	549	8.6%
Cohasset	2,898	325	311	10.7%
Colrain	731	0	0	0.0%
Concord	6,852	766	710	10.4%
Conway	803	0	0	0.0%
Cummington	426	16	16	3.8%
Dalton	2,860	158	158	5.5%
Danvers	11,071	1,472	1,109	10.0%
Dartmouth	11,775	959	929	7.9%
Dedham	10,115	1,152	1,107	10.9%
Deerfield	2,154	33	33	1.5%
Dennis	7,653	349	335	4.4%
Dighton	2,568	417	115	4.5%
Douglas	3,147	183	140	4.4%
Dover	1,950	69	17	0.9%
Dracut	11,318	1,004	719	6.4%
Dudley	4,360	104	104	2.4%
Dunstable	1,085	0	0	0.0%
Duxbury	5,532	441	196	3.5%
East Bridgewater	4,897	230	173	3.5%
East Brookfield	888	0	0	0.0%
East Longmeadow	6,072	504	436	7.2%

Eastham	2,632	59	50	1.9%
Easthampton	7,567	505	449	5.9%
Easton	8,105	629	531	6.6%
Edgartown	1,962	94	89	4.5%
Egremont	596	0	0	0.0%
Erving	778	0	0	0.0%
Essex	1,477	40	40	2.7%
Everett	16,691	1,314	1,314	7.9%
Fairhaven	7,003	473	473	6.8%
Fall River	42,650	4,927	4,831	11.3%
Falmouth	14,870	1,231	963	6.5%
Fitchburg	17,058	1,656	1,655	9.7%
Florida	335	0	0	0.0%
Foxborough	6,853	621	611	8.9%
Framingham	27,443	2,870	2,870	10.5%
Franklin	11,350	1,543	1,078	9.5%
Freetown	3,263	98	80	2.5%
Gardner	9,064	1,297	1,297	14.3%
Georgetown	3,031	354	354	11.7%
Gill	591	24	24	4.1%
Gloucester	13,270	986	951	7.2%
Goshen	440	6	6	1.4%
Gosnold	41	0	0	0.0%
Grafton	7,160	642	325	4.5%
Granby	2,451	66	66	2.7%
Granville	630	3	3	0.5%
Great Barrington	3,072	316	244	7.9%
Greenfield	8,325	1,160	1,143	13.7%
Groton	3,930	378	212	5.4%
Groveland	2,423	137	80	3.3%
Hadley	2,200	285	285	13.0%
Halifax	2,971	28	28	0.9%
Hamilton	2,783	124	84	3.0%
Hampden	1,941	60	60	3.1%
Hancock	326	0	0	0.0%
Hanover	4,832	455	455	9.4%
Hanson	3,572	270	148	4.1%
Hardwick	1,185	22	22	1.9%
Harvard	1,982	279	110	5.5%
Harwich	6,121	333	333	5.4%
Hatfield	1,549	47	47	3.0%
Haverhill	25,557	2,694	2,465	9.6%
Hawley	137	0	0	0.0%
Heath	334	0	0	0.0%
Hingham	8,841	2,161	561	6.3%
Hinsdale	918	0	0	0.0%
Holbrook	4,262	439	439	10.3%

Holden	6,624	507	393	5.9%
Holland	1,051	19	19	1.8%
Holliston	5,077	332	225	4.4%
Holyoke	16,320	3,411	3,368	20.6%
Hopedale	2,278	108	108	4.7%
Hopkinton	5,087	558	439	8.6%
Hubbardston	1,627	49	49	3.0%
Hudson	7,962	1,089	918	11.5%
Hull	4,964	93	93	1.9%
Huntington	919	47	47	5.1%
Ipswich	5,735	520	494	8.6%
Kingston	4,881	356	179	3.7%
Lakeville	3,852	572	256	6.6%
Lancaster	2,544	207	124	4.9%
Lanesborough	1,365	28	28	2.1%
Lawrence	27,092	3,926	3,907	14.4%
Lee	2,702	173	176	6.5%
Leicester	4,231	163	163	3.9%
Lenox	2,473	178	178	7.2%
Leominster	17,805	1,479	1,442	8.1%
Leverett	792	2	2	0.3%
Lexington	11,946	1,510	1,329	11.1%
Leyden	300	0	0	0.0%
Lincoln	2,153	310	238	11.2%
Littleton	3,443	643	431	12.5%
Longmeadow	5,874	267	267	4.5%
Lowell	41,308	5,250	5,215	12.6%
Ludlow	8,337	187	187	2.2%
Lunenburg	4,037	164	164	4.1%
Lynn	35,701	4,452	4,451	12.5%
Lynnfield	4,319	704	491	11.4%
Malden	25,122	2,628	2,562	10.2%
Manchester	2,275	122	110	4.8%
Mansfield	8,725	1,042	946	10.8%
Marblehead	8,528	399	333	3.9%
Marion	2,014	204	155	7.7%
Marlborough	16,347	1,728	1,660	10.2%
Marshfield	9,852	753	550	5.6%
Mashpee	6,473	314	298	4.6%
Mattapoisett	2,626	71	71	2.7%
Maynard	4,430	387	369	8.3%
Medfield	4,220	209	191	4.5%
Medford	23,968	1,685	1,647	6.9%
Medway	4,603	285	233	5.1%
Melrose	11,714	1,209	892	7.6%
Mendon	2,072	77	40	1.9%
Merrimac	2,527	397	141	5.6%

Methuen	18,268	1,938	1,649	9.0%
Middleborough	8,921	928	509	5.7%
Middlefield	230	4	4	1.7%
Middleton	3,011	173	151	5.0%
Milford	11,379	980	718	6.3%
Millbury	5,592	244	221	4.0%
Millis	3,148	184	121	3.8%
Millville	1,157	26	26	2.2%
Milton	9,641	733	477	4.9%
Monroe	64	0	0	0.0%
Monson	3,406	152	152	4.5%
Montague	3,926	423	391	10.0%
Monterey	465	0	0	0.0%
Montgomery	337	0	0	0.0%
Mount Washington	80	0	0	0.0%
Nahant	1,612	48	48	3.0%
Nantucket	4,896	179	121	2.5%
Natick	14,052	1,672	1,442	10.3%
Needham	11,047	969	838	7.6%
New Ashford	104	0	0	0.0%
New Bedford	42,816	5,155	5,124	12.0%
New Braintree	386	0	0	0.0%
New Marlborough	692	0	0	0.0%
New Salem	433	0	0	0.0%
Newbury	2,699	94	94	3.5%
Newburyport	8,015	720	606	7.6%
Newton	32,346	2,515	2,438	7.5%
Norfolk	3,112	144	111	3.6%
North Adams	6,681	886	880	13.2%
North Andover	10,902	1,393	932	8.5%
North Attleborough	11,553	308	296	2.6%
North Brookfield	2,014	142	142	7.1%
North Reading	5,597	645	533	9.5%
Northampton	12,604	1,586	1,521	12.1%
Northborough	5,297	718	605	11.4%
Northbridge	6,144	470	455	7.4%
Northfield	1,290	27	27	2.1%
Norton	6,707	898	588	8.8%
Norwell	3,652	426	271	7.4%
Norwood	12,441	992	980	7.9%
Oak Bluffs	2,138	158	146	6.8%
Oakham	702	0	0	0.0%
Orange	3,461	431	431	12.5%
Orleans	3,290	337	307	9.3%
Otis	763	0	0	0.0%
Oxford	5,520	404	404	7.3%
Palmer	5,495	329	284	5.2%

Paxton	1,590	62	62	3.9%
Peabody	22,135	2,146	2,031	9.2%
Pelham	564	4	4	0.7%
Pembroke	6,477	807	625	9.6%
Pepperell	4,335	197	129	3.0%
Peru	354	0	0	0.0%
Petersham	525	0	0	0.0%
Phillipston	658	11	11	1.7%
Pittsfield	21,031	2,078	1,957	9.3%
Plainfield	283	0	0	0.0%
Plainville	3,459	209	175	5.1%
Plymouth	22,285	840	692	3.1%
Plympton	1,039	63	51	4.9%
Princeton	1,324	21	21	1.6%
Provincetown	2,122	210	169	8.0%
Quincy	42,547	4,077	4,077	9.6%
Randolph	11,980	1,279	1,279	10.7%
Raynham	5,052	604	489	9.7%
Reading	9,584	1,137	742	7.7%
Rehoboth	4,252	95	23	0.5%
Revere	21,956	1,769	1,759	8.0%
Richmond	706	3	3	0.4%
Rochester	1,865	8	8	0.4%
Rockland	7,030	453	407	5.8%
Rockport	3,460	135	135	3.9%
Rowe	177	0	0	0.0%
Rowley	2,226	179	94	4.2%
Royalston	523	3	3	0.6%
Russell	687	13	13	1.9%
Rutland	2,913	81	81	2.8%
Salem	18,998	2,350	2,348	12.4%
Salisbury	3,842	555	342	8.9%
Sandisfield	401	0	0	0.0%
Sandwich	8,183	566	287	3.5%
Saugus	10,754	825	749	7.0%
Savoy	318	0	0	0.0%
Scituate	7,163	355	310	4.3%
Seekonk	5,272	88	84	1.6%
Sharon	6,413	472	472	7.4%
Sheffield	1,507	30	30	2.0%
Shelburne	893	51	51	5.7%
Sherborn	1,479	41	34	2.3%
Shirley	2,417	60	60	2.5%
Shrewsbury	13,919	957	860	6.2%
Shutesbury	758	2	2	0.3%
Somerset	7,335	271	271	3.7%
Somerville	33,632	3,270	3,258	9.7%

South Hadley	7,091	396	396	5.6%
Southampton	2,310	44	44	1.9%
Southborough	3,433	610	286	8.3%
Southbridge	7,517	490	490	6.5%
Southwick	3,852	177	173	4.5%
Spencer	5,137	268	267	5.2%
Springfield	61,556	10,247	9,970	16.2%
Sterling	2,918	269	68	2.3%
Stockbridge	1,051	111	111	10.6%
Stoneham	9,399	501	495	5.3%
Stoughton	10,742	1,535	1,207	11.2%
Stow	2,500	331	179	7.2%
Sturbridge	3,759	260	209	5.6%
Sudbury	5,921	575	354	6.0%
Sunderland	1,718	8	8	0.5%
Sutton	3,324	176	42	1.3%
Swampscott	5,795	218	212	3.7%
Swansea	6,290	247	236	3.8%
Taunton	23,844	1,844	1,650	6.9%
Templeton	3,014	476	198	6.6%
Tewksbury	10,803	1,306	1,037	9.6%
Tisbury	1,965	123	109	5.5%
Tolland	222	0	0	0.0%
Topsfield	2,157	164	146	6.8%
Townsend	3,356	214	150	4.5%
Truro	1,090	27	27	2.5%
Tyngsborough	4,166	638	340	8.2%
Tyringham	149	0	0	0.0%
Upton	2,820	223	178	6.3%
Uxbridge	5,284	427	257	4.9%
Wakefield	10,459	1,059	694	6.6%
Wales	772	55	55	7.1%
Walpole	8,984	470	470	5.2%
Waltham	24,805	2,253	1,785	7.2%
Ware	4,539	425	425	9.4%
Wareham	9,880	889	759	7.7%
Warren	2,202	108	108	4.9%
Warwick	363	0	0	0.0%
Washington	235	0	0	0.0%
Watertown	15,521	1,219	1,000	6.4%
Wayland	4,957	362	200	4.0%
Webster	7,788	666	666	8.6%
Wellesley	9,090	597	561	6.2%
Wellfleet	1,550	34	34	2.2%
Wendell	419	5	5	1.2%
Wenham	1,404	190	122	8.7%
West Boylston	2,729	429	136	5.0%

West Bridgewater	2,658	173	119	4.5%
West Brookfield	1,578	57	57	3.6%
West Newbury	1,558	86	34	2.2%
West Springfield	12,629	440	440	3.5%
West Stockbridge	645	0	0	0.0%
West Tisbury	1,253	38	23	1.8%
Westborough	7,304	718	668	9.1%
Westfield	16,001	1,138	1,138	7.1%
Westford	7,671	987	575	7.5%
Westhampton	635	10	10	1.6%
Westminster	2,826	274	87	3.1%
Weston	3,952	252	142	3.6%
Westport	6,417	449	222	3.5%
Westwood	5,389	611	493	9.1%
Weymouth	23,337	1,919	1,895	8.1%
Whately	654	2	2	0.3%
Whitman	5,513	218	218	4.0%
Wilbraham	5,442	254	253	4.6%
Williamsburg	1,165	51	51	4.4%
Williamstown	2,805	148	148	5.3%
Wilmington	7,788	1,048	820	10.5%
Winchendon	4,088	345	345	8.4%
Winchester	7,920	199	152	1.9%
Windsor	387	0	0	0.0%
Winthrop	8,253	637	637	7.7%
Woburn	16,237	1,318	1,150	7.1%
Worcester	74,383	9,983	9,971	13.4%
Worthington	553	22	22	4.0%
Wrentham	3,821	269	165	4.3%
Yarmouth	12,037	625	518	4.3%
Totals	2,692,186	282,268	250,863	9.3%

*This data is derived from Information provided to the Department of Housing and Community Development (DHCD) by individual communities and is subject to change as new information is obtained and use restrictions expire.

Revised November 6, 2015

Certified Communities

Effective Date Expiration Date

• Tyngsborough	6/18/15	6/17/16

If the city or town is certified compliant with its plan, DHCD will notify the chief elected official in writing. Regardless of the date of the certification notice, the certification period will be deemed effective on the date upon which the municipality achieved its numerical target for the calendar year in question (see 56 CMR 56. 03 (2)).

Contact Information: For questions or further information, please call 617-573-1357 or e-mail Phillip.DeMartino@ocd.state.ma.us.

TOWN OF HARWICH

JAN 4 2017



TOWN OF HARWICH
ASSESSORS OFFICE
732 MAIN STREET
HARWICH, MASSACHUSETTS 02645

ASSESSORS OFFICE

OFFICE OF
BOARD OF ASSESSORS
Tel: 508-430-7503
Fax: 508-430-7086

ABUTTERS REQUEST FORM

Board Requesting Action: Zoning Board of Appeals

Date Submitted: January 4, 2017

Applicant's Name: Habitat for Humanity of Cape Cod, Inc.

Assessors Map(s) & Parcel(s): Map 10, Parcel w5 & w3-B

Property Location: 93 and 97 Main Street, WH

Owner(s): Harwich Ecumenical Council for the Homeless, Inc (HECH)

Contact Person: Leedara Zola, Land Acquisition/Permitting

Telephone #: 508-280-6144 (cell)

Type of Petition: MGL Ch. 40B Comprehensive Permit

Assessors Approval By:

INVOICE

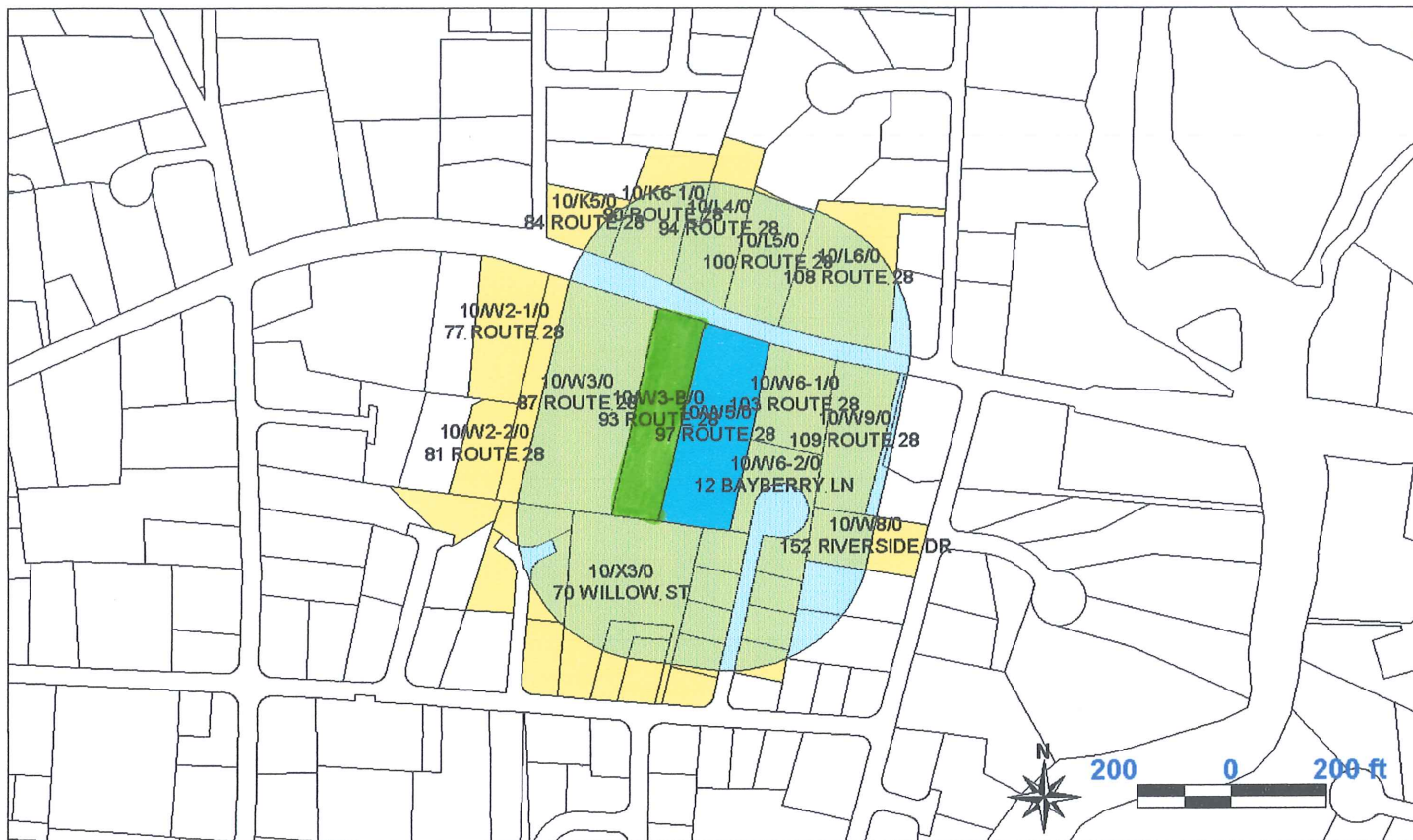
This cover sheet is also your invoice.

	<u>Amount</u>	<u>Date Paid</u>	<u>Ck #</u>
Up to 25 Abutters	\$50.00	1/24/17	7802
Additional Abutters <u>6</u> @ \$2.00 ea	<u>12.00</u>	_____	_____
Make checks payable to: <u>Town of Harwich</u>	<u>62.00</u>		



TOWN OF HARWICH, MA
BOARD OF ASSESSORS
732 Main Street, Harwich, MA 02645

Abutters List Within 300 feet of Parcel 10/W5/0



Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
1322	10-K5-0-R	84 MAIN STREET W HARWICH LLC	84 ROUTE 28	84 BEECHTREE DR	BREWSTER	MA	02631
1328	10-K6-1-0-R	VELEZ JASON S & GOYZUETA ERIKA	90 ROUTE 28	121 S BROADWAY	IRVINGTON	NY	10533
1355	10-L4-0-R	OVERMAN BECKY B	94 ROUTE 28	PO BOX 517	W HARWICH	MA	02671
1358	10-L5-0-R	FITZPATRICK STEPHEN & FITZPATRICK DENISE	100 ROUTE 28	100 ROUTE 28	W HARWICH	MA	02671
8305	10-L6-0-R	GREGG JOHN F TR MAPLE ROCK TRUST	108 ROUTE 28	PO BOX 398	S HARWICH	MA	02661
8235	10-V1-4-0-R	SCHMIDT JAMES F & VLAKAKIS PAMELA T	9 HOMEWOOD LN	547 ACORN PARK DRIVE	ACTON	MA	01720
17766	10-W2-1-0-R	CONNELL JOHN F JR TRS ET AL CONNELL CLIFFORD W TRS	77 ROUTE 28	PO BOX 667	W HARWICH	MA	02671-0667
17765	10-W2-2-0-R	CONNELL JOHN F TRS ET AL CONNELL EILEEN E TRS	81 ROUTE 28	PO BOX 667	W HARWICH	MA	02671
1483	10-W3-0-R	CHAMBERLAIN VIRGINIA	87 ROUTE 28	87 ROUTE 28	HARWICH	MA	02671
1487	10-W3-B-0-E	HARWICH ECUMENICAL COUNCIL FOR THE HOMELESS INC	93 ROUTE 28	PO BOX 638	W HARWICH	MA	02671
1490	10-W5-0-E	HARWICH ECUMENICAL COUNCIL FOR THE HOMELESS INC	97 ROUTE 28	PO BOX 638	W HARWICH	MA	02671
1493	10-W6-1-0-R	DIAMOND RALPH A TR ONE HUNDRED THREE MAIN ST REV	103 ROUTE 28	PO BOX 326	W HARWICH	NY	02671
8238	10-W6-2-0-R	BLADE CORT W & BLADE MAUREEN C	12 BAYBERRY LN	34 CHESTER AVE	WINTHROP	MA	02152
1496	10-W8-0-R	HAYWARD ELEANOR W ESTATE OF	152 RIVERSIDE DR	C/O SALLY URBANO 152 RIVERSIDE DR	W HARWICH	MA	02671
1497	10-W9-0-R	HOYLAND ALEXANDRA	109 ROUTE 28	200 KETTLEBROOK DR	MOUNT LAUREL	NJ	08054

Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
1561	10-X1-1-0-R	CALLAHAN MARK G & CALLAHAN MARY ELLEN	68 WILLOW ST	79 RESERVATION RD	MILTON	MA	02186
8242	10-X1-2-0-R	BRENNAN THOMAS M & KOTELL JOANN	7 SHANGRI LA DR	12 PHEASANT LN	BEFORD	MA	01730
1564	10-X1-3-0-R	MARCHAND DONALD T & MARCHAND PATRICIA A	9 SHANGRI LA DR	9 SHANGRI LA DR	W HARWICH	MA	02671
7759	10-X1-4-0-R	MC MAHON ELINOR TETRAULT TR ELINOR TETRAULT MC MAHON LIVIN	6 SHANGRI LA DR	5 WHITESTONE WAY	SLINGERLANDS	NY	12159
1567	10-X3-0-E	HARWICH TOWN OF - SELECTMEN AFFORDABLE HOUSING	70 WILLOW ST	732 MAIN ST	HARWICH	MA	02645
1568	10-X4-A-0-R	VIGGIANO WILLIAM J	74 WILLOW ST	1568 POINT WAY	N PALM BCH	FL	33408
1572	10-X4-B-0-R	CUTKOMP MARK E & CUTKOMP NANCY E	76 WILLOW ST	117 GOOSEBERRY HILL	WETHERSFIELD	CT	06109
1573	10-X5-1-0-R	DESIERE JANICE LIFE ESTATE	80 WILLOW ST	80 WILLOW ST	W HARWICH	MA	02671
1575	10-X5-2-0-R	ENSLIN BONNIE L & ENSLIN JONATHAN M	4 BAYBERRY LN	4 BAYBERRY LN	W HARWICH	MA	02671
1577	10-X5-3-0-R	CHAMBERLAIN DEBORAH TR CAMPBELL FAMILY IRREVOCABLE TR	6 BAYBERRY LN	747 ELM ST	MARLBOROUGH	MA	01752
1580	10-X5-4-0-R	GHILONI JOHN L & GHILONI DENISE T	8 BAYBERRY LN	PO BOX 263	W HARWICH	MA	02671
1583	10-X5-5-0-R	CLARK DONNA M TR MCDONNELL FAMILY TRUST	10 BAYBERRY LN	105 BRAYTON RD	BRIGHTON	MA	02135
1585	10-X5-6-0-R	BRADY JANE ANN	11 BAYBERRY LN	777 PIKE AVE	ATTLEBORO	MA	02703
8243	10-X5-7-0-R	SMALL CLAYTON G	9 BAYBERRY LN	8 PEPPER LN	HARWICH	MA	02645
1586	10-X5-8-0-R	GALEOTA RALPH E JR & ET ALS GALEOTA JULIANNE	7 BAYBERRY LN	7 BAYBERRY LN	W HARWICH	MA	02671
1587	10-X5-9-0-R	FANTASIA JOHN E	3 BAYBERRY LN	15 BEATTIE CT	HUNTINGTON	NY	11743

10-K5-0-R	10-K6-1-0-R	10-L4-0-R
84 MAIN STREET W HARWICH LLC 84 BEECHTREE DR BREWSTER, MA 02631	VELEZ JASON S & GOYZUETA ERIKA 121 S BROADWAY IRVINGTON, NY 10533	OVERMAN BECKY B PO BOX 517 W HARWICH, MA 02671
10-L5-0-R	10-L6-0-R	10-V1-4-0-R
FITZPATRICK STEPHEN & FITZPATRICK DENISE 100 ROUTE 28 W HARWICH, MA 02671	GREGG JOHN F TR MAPLE ROCK TRUST PO BOX 398 S HARWICH, MA 02661	SCHMIDT JAMES F & VLAHAKIS PAMELA T 547 ACORN PARK DRIVE ACTON, MA 01720
10-W2-1-0-R	10-W2-2-0-R	10-W3-0-R
CONNELL JOHN F JR TRS ET AL CONNELL CLIFFORD W TRS PO BOX 667 W HARWICH, MA 02671-0667	CONNELL JOHN F TRS ET AL CONNELL EILEEN E TRS PO BOX 667 W HARWICH, MA 02671	CHAMBERLAIN VIRGINIA 87 ROUTE 28 HARWICH, MA 02671
10-W3-B-0-E	10-W5-0-E	10-W6-1-0-R
HARWICH ECUMENICAL COUNCIL FOR THE HOMELESS INC PO BOX 638 W HARWICH, MA 02671	HARWICH ECUMENICAL COUNCIL FOR THE HOMELESS INC PO BOX 638 W HARWICH, MA 02671	DIAMOND RALPH A TR ONE HUNDRED THREE MAIN ST REV PO BOX 326 W HARWICH, NY 02671
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BLADE CORT W & BLADE MAUREEN C 34 CHESTER AVE WINTHROP, MA 02152	HAYWARD ELEANOR W ESTATE OF C/O SALLY URBANO 152 RIVERSIDE DR W HARWICH, MA 02671	HOYLAND ALEXANDRA 200 KETTLEBROOK DR MOUNT LAUREL, NJ 08054
10-X1-1-0-R	10-X1-2-0-R	10-X1-3-0-R
CALLAHAN MARK G & CALLAHAN MARY ELLEN 79 RESERVATION RD MILTON, MA 02186	BRENNAN THOMAS M & KOTELL JOANN 12 PHEASANT LN BEFORD, MA 01730	MARCHAND DONALD T & MARCHAND PATRICIA A 9 SHANGRI LA DR W HARWICH, MA 02671
10-X1-4-0-R	10-X3-0-E	10-X4-A-0-R
MC MAHON ELINOR TETRAULT TR ELINOR TETRAULT MC MAHON LIVIN 5 WHITESTONE WAY SLINGERLANDS, NY 12159	HARWICH TOWN OF - SELECTMEN AFFORDABLE HOUSING 732 MAIN ST HARWICH, MA 02645	VIGGIANO WILLIAM J 1568 POINT WAY N PALM BCH, FL 33408
10-X4-B-0-R	10-X5-1-0-R	10-X5-2-0-R
CUTKOMP MARK E & CUTKOMP NANCY E 117 GOOSEBERRY HILL WETHERSFIELD, CT 06109	DESIERE JANICE LIFE ESTATE 80 WILLOW ST W HARWICH, MA 02671	ENSLIN BONNIE L & ENSLIN JONATHAN M 4 BAYBERRY LN W HARWICH, MA 02671
10-X5-3-0-R	10-X5-4-0-R	10-X5-5-0-R
CHAMBERLAIN DEBORAH TR CAMPBELL FAMILY IRREVOCABLE TR 747 ELM ST MARLBOROUGH, MA 01752	GHILONI JOHN L & GHILONI DENISE T PO BOX 263 W HARWICH, MA 02671	CLARK DONNA M TR MCDONNELL FAMILY TRUST 105 BRAYTON RD BRIGHTON, MA 02135
10-X5-6-0-R	10-X5-7-0-R	10-X5-8-0-R
BRADY JANE ANN 777 PIKE AVE ATTLEBORO, MA 02703	SMALL CLAYTON G 8 PEPPER LN HARWICH, MA 02645	GALEOTA RALPH E JR & ET ALS GALEOTA JULIANNE 7 BAYBERRY LN W HARWICH, MA 02671

10-X5-9-0-R

FANTASIA JOHN E
15 BEATTIE CT
HUNTINGTON, NY 11743



Habitat for Humanity of Cape Cod

411 Main Street Suite 6 • Yarmouthport, MA 02675 • 508-362-3559
www.habitatcapecod.org

FEB XX, 2017

Dear West Harwich Neighbor:

As you may have already heard, Habitat for Humanity of Cape Cod, with a generous land acquisition grant through the Town of Harwich Affordable Housing Fund, will be purchasing a portion of the property at 93 and 97 Main Street, West Harwich.

The proposal for this project is to build six new single-family homes in the back portion of the two lots.

Habitat for Humanity of Cape Cod will use our tried-and-true “sweat-equity” model to build the homes. With this model, our selected families partner with Habitat and devote 250 to 500 hours of work (250 for a single-adult family; 500 for a two-adult family). A family will work on their own home, and may also work on other Habitat homes. Not only does this promote a homeowner who is well educated on building and maintenance, but it fosters pride in home ownership and a true sense of community. Habitat works closely with our buyers, through our rigorous application process and throughout the build period. We provide significant homebuyer education and counseling, and work hand-in-hand with each family during the mortgage and closing process. This is a critical element of our partnership, as education has proven to be key to successful homeownership.

Habitat also partners with our communities, seeking donations of materials, professional services, and labor. We strive to make our homes welcome in a neighborhood and to be good neighbors. Habitat works to create a collaborative spirit where a whole community can be actively involved in helping to address the affordable housing crisis.

Habitat is seeking to use Mass General Law Chapter 40B permitting to allow for the subdivision and development. All six new Habitat homes will be affordable in perpetuity. Affordability will be protected by a Department of Housing and Community Development (DHCD) Local Initiative Program (LIP) Deed Rider and the homes will count on Harwich’s DHCD Subsidized Housing Inventory. Home sale price will be at or around \$131,750 for a 2-bedroom and \$147,500 for a 3-bedroom (prices may be adjusted slightly higher based on incomes and calculations at time of marketing)

We are in the process of submitting our application to the Zoning Board of Appeals, and we hope to be on the XXXX agenda, but have not yet confirmed this. Please check the Town website for meeting agendas as these are subject to change.

We have included a draft site plan with this mailing as well as an info sheet. Please feel free to contact us. We are happy to discuss our plans, answer questions, and keep you updated on our timelines.

Sincerely,

Leedara

Leedara Zola; Land Acquisition and Permitting, lzola@habitatcapecod.org; 508-280-6144

TABLE OF ATTACHMENTS

APPLICATION FOR A COMPREHENSIVE PERMIT

MGL Chapter 40B, Sections 20-23 and 760 CMR 56.00

Applicant: Habitat for Humanity of Cape Cod, Inc.
Site: 93 and 97 Main Street, West Harwich
Project Name: Main Street West Harwich Community Housing
Date: February 2, 2017

WAIVERS REQUESTED:

Habitat for Humanity of Cape Cod, Inc. requests the following waivers from local code and regulations in order to promote the creation of affordable housing.

Code of the Town of Harwich, Massachusetts, Chapter 325: Zoning

W1. § 325-12 Road construction requirements for certificate of occupancy.

Instead of the Planning Board in the role of determining completeness of road construction, approval by the Town of Harwich Department of Public Works Director or Town Engineer.

W2. Article VI: Area, Height and Bulk Regulations

Waive this Article in its entirety.

Dimensional Requirement	Required: CH1/RH1	Waiver Requested
Minimum Lot Size	40,000 sq ft	yes
Minimum Lot Frontage	150 ft	yes
Minimum Frontyard Setback	25 ft	yes
Minimum Sideyard Setback	20 ft	yes
Minimum Backyard Setback	20 ft	yes
Maximum Building Height	30 ft	no

Waivers requested from this article include, but are not limited to, the above dimensional requirements as well as a request for a waiver from §325-18 A: waive minimum width of lots and shape number requirements; §325-18 C: waive requirements for corner lots; §325-18 G: waive setback requirements for accessory structures (sheds) for lot lines internal to the development; §325-18 O: waive prohibition on site preparation prior to building permits

Note 1: Sheds siting as shown on the submitted plans is an approximation. Based on field conditions sheds may be sited differently, but setback to perimeter abutters (not lot lines internal to the development) will adhere to §325-18 G.

Note 2: Waivers are requested from area regulations as needed for construction of submitted plans. We also request a margin of plus or minus 5% to allow for insubstantial changes that may be needed based on field conditions.

W3. Article VII: Sign Regulations

Waiver requested from the size and durational requirements in §325-25: Definitions so that the Habitat for Humanity donor and volunteer recognition signage erected during construction is classified as a “Temporary Sign” and so is exempt from regulations under §325-31 O..

W4. Article IX Off Street Parking and Loading Requirements § 325-42H Design requirements.

Waiver requested from 20’ minimum distance for a driveway serving a dwelling unit from other drives.

Town of Harwich, Massachusetts, Board of Health, Regulations and Policies

W5. § 1.211 Request waiver from the requirements in this section, including the requirement of a hearing before the Board of Health.

W6. FEES: request waiver from Board of Health fees, except for fees for inspections.

Town of Harwich, Massachusetts, Code of the Town of Harwich, Chapter 131 Historic Preservation

W7. Ch 131: Request waiver from the applicability of Chapter 131

Code of the Town of Harwich, Massachusetts, Chapter 400: Subdivision of Land and Site Plan Special Permits**W8. § 400-10 Subdivision filing A (1-7), B (1-3) Plan, profile and cross section requirements**

Due to site being a comprehensive permit, relief from normal subdivision filing requirements is requested. The roadway is small and simple and fairly level, and is adequately shown in plan view with grades and drainage clearly indicated, so profiles and cross sections are not required. There are details and drainage sections for construction provided, and the plans are stamped by a Professional Engineer.

W9. § 400-11 Subdivision review procedure C (1-4) Definitive Plan

Request waiver from normal review process due to site being a comprehensive permit applicant.

W10. § 400-11 Subdivision review procedure D, Performance guarantee, E Recording, F. Evidence of Satisfactory performance, G Release of performance guarantee

Due to comprehensive permit, request ZBA be permitting authority, with building department and engineering department handling oversight of construction, occupancies and roadway completion. As part of the Comprehensive Permit process, upon approval the ZBA, sitting in place of the Planning Board, would endorse subdivision plan, and the plan would then be recorded at the Barnstable Registry of Deeds. Applicant requests waiver from subsection D(1) financial security, but will file a covenant per subsection D(2).

W11. § 400-12 B. Width (1) Right Of Way

Request reduction from 50’ to 40’ in width in the Right Of Way (ROW)

The reason for the request is due to the small size of the subdivision, the number of homes served is seven, only two homes over the threshold for a “Way” which needs only a 40’ ROW per current Harwich regulations in Table 1. A smaller ROW saves room for the homes and lots in this 100% affordable development.

W12. § 400-12 B. Width (2) minimum pavement width and berms

Request reduction from 22' to 20' exclusive of berms, request to have twelve inch machined berm on low side of roadway only, rather than both sides. The reason for this request is to maintain the rural character of the area by reducing impervious area (see section 400-12E). The number of lots is only two over the threshold for the twenty foot pavement width. The roadway is superelevated to match the existing slope of the grade from the entrance up to the cul-de-sac, so a berm is only needed to contain runoff on the low side of the roadway. The cul-de-sac pitches to the center, so berms are not needed there to contain or channel stormwater. The size of the berms is requested to be a 12" x 3" Cape Cod berm typical for smaller roadways in the region.

W13. § 400-12 C Dead-end way (2)

Request circular turn around with outside diameter of 84' and right of way diameter of 86' which is less than the 90' and 110' required. This request is made to help maintain the rural character of the roadway, and to reduce impervious area. The proposed cul-de-sac has oversize entrance radii and is sufficient to turn around a 30' single unit truck, which replicates many fire trucks. There is no center island proposed which will also help facilitate vehicle turn arounds at the roadway end.

W14. § 400-12 E rural character.

Request waiver from requirement from filing Preliminary Plan when requesting design standard relief to maintain Rural Character. Waiver requested to simplify permitting under the comprehensive permit statute.

W15. § 400-13 Design standards for utilities A. Drainage (5)

Request ability to install subsurface drainage partially beneath roadway surface instead of completely within easements outside of the right of way. The reason for this request is to save room for homes and septic systems in this 100% affordable development.

W16. § 400-14 A (1) Required improvements and specifications for construction

Request Figure 4 centerline radius be reduced to 65' from 150'. The reason for this request is due to the roadway needing to turn left toward the center of the site in a short distance. The reduced radius does not affect the safety due to the turn only being a short distance at this radius, only about a fifty five degree bend. The fact that the roadway is a short cul-de-sac and driving speeds will be minimal further ensures safety. Fire trucks can easily navigate this shallow bend.

W17. § 400-14 E (2) Drainage System

Request drainage systems be installed on low side of superelevated roadway only, and at lowpoint in cul-de-sac, instead of pairs of interconnected basins. The proposed drainage system will adequately drain the small roadway, which pitches with the natural terrain. Not having cross pipes means less interference if a gravity sewer is run down the center of the roadway in the future. Eliminating extra structures gives economy to the 100% affordable development. Further the proposed system utilizes secondary deep sump hooded manholes to provide the 44% TSS removal prior to infiltration mandated by the State DEP guidelines, and this is in excess of the diagram shown in the subdivision regulations.

W18. § 400-14 H Base and leveling course (1)

Request reducing width of T-base to 23' from 28', due to reduced pavement width. Extending the T-base one foot beyond the pavement is requested, as this will be adequate to support the edge of pavement.

W19. § 400-14 J Berms

As stated earlier in 400-12 (B) request 12"x3" Cape Cod berm on low side of pavement as indicated on the plans. Berms not needed on high side of pavement, helps maintain rural character and provide smoother transitions to driveways.

w20. § 400-14 M (1)(7) Sidewalks

Waiver requested from having a sidewalk on one side of roadway. Subdivision is only 2 lots over “Way” which does not require sidewalks. To maintain the rural character and reduce impervious area, it is requested to eliminate the requirement for sidewalks. The subdivision is a short dead end route, residential in nature, and there is not a sidewalk on Rt. 28 to connect to. It is further requested to waive the requirement in (7) to provide the in lieu payment when sidewalks are waived. This subdivision is being constructed by a not-for-profit corporation with 100% of the new homes being affordable, no profit which could pay for sidewalks elsewhere is being generated.

w21. § 400-14 N Bounds (1) and O.

Waiver requested to reduce the number of cement bounds to four points on the roadway is requested. Numerous perimeter bounds exist, and four additional monuments on select corners is requested to be adequate to monument the subdivision. Rebar with survey caps are requested to be set on remaining front lot corners. Cost savings are the reason for the request, as the development is 100% affordable and will not generate a profit.

General

Amendments after Occupancy: Any changes subsequent to initial occupancy shall be considered a modification of a pre-existing nonconforming structure consistent with the provisions of G. L. c. 40A, § 6 and the Harwich Zoning Bylaws.

The structures and uses on Lots 7 and 8 are to be considered pre-existing nonconforming, and shall remain as such.

Fee Waivers – Under MGL Chapter 40B, the Zoning Board has the authority to grant fee waivers. Habitat typically requests waivers from local fees such as Building Department, Health Department and Fire Department. Habitat respectfully requests the Zoning Board of Appeals waive all local fee payments to the Town of Harwich.

In addition, Habitat for Humanity of Cape Cod, Inc. requests waivers from any and all local provisions that would prohibit or impede development of the project as submitted, and reserves the right to add to the above list of waivers as needed.