Harwich Planning Board Agenda **Tuesday, January 26, 2021 – 6:30 PM**

Town Hall, 732 Main Street, Harwich

This meeting will be held **VIA REMOTE PARTICIPATION ONLY**.

Access is available through GoToMeeting.com and live broadcast on Channel 18*

Please join my meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/356533877

> You can also dial in using your phone. United States: +1 (571) 317-3122

> > Access Code: 356-533-877

I. CALL TO ORDER Pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, G.L. c. 30A, §20, and the Governor's March 15, 2020 Order imposing strict limitations on the number of people that may gather in one place, this meeting of the Harwich Planning Board is being conducted via remote participation. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings as provided for in the Order.

II. PUBLIC HEARINGS

- A. **PB2020-33 Main Street Stone Horse, applicant & owner,** c/o William F. Riley, Esq. representative, seeks a new Use Special Permit, to convert one of the two dormitory buildings, specifically the building known as 868 Route 28, into twenty two (22) one-bedroom apartments and to amend the previously approved Site Plan Review Special Permit granted under case PB2019-13 with additional parking requirement and other waivers. The application, is pursuant to the Code of the Town of Harwich §325-51.Q (Multifamily Use) and §325-55 (Site Plan Review). The property is located 872 Route 28, Map 25, Parcel A2, is located in the CH-1 zoning district.
- B. **PB2020-34 Cool Change LLC, Allen Harbor Marine,** applicant & owner, c/o Rob O'Neill, representative, seeks a Site Plan Review and Use Special Permit pursuant to §§325-55; 325-13, Use Table, paragraph IV.19; and 325-51to construct a 4,102 square foot commercial building for a marine use (boat maintenance and repair) and associated parking at property located at 282 Route 28, Map 12, Parcel G2-1 in the CH-1 zoning district.

III. PUBLIC MEETING**

- A. New Business:
- B. Old Business:
 - 1. West Harwich DCPC Continued discussion on Design Guidelines
 - 2. Discussion on possible zoning amendments/rules and regulations amendment for 2021
- C. Briefings and Reports by Board Members

IV. ADJOURN

*PLEASE NOTE: We request all who are attending this meeting to please observe the same courtesies that would be observed if you were here in person. If you need to conduct unrelated business before your item on the agenda comes up, we request you mute your line –

Use *6 to mute and unmute your phone.

**Per the Attorney General's Office – Boards/Commissions may hold an open session for topics not reasonably anticipated by the Chair 48 hours in advance of the meeting following "New Business".

**Next Planning Board Meeting (Subject to Change) – Tuesday, February 9, 2021.

Requests for accommodations for any person having a disability can be made by contacting the Administration Office at 508-430-7513.

Authorized Posting Officer: Elaine Banta, ebanta@town.harwich.ma.us or 508-430-7511

TOWN PLANNER • 732 Main Street, Harwich, MA 02645

508-430-7511 fax: 508-430-4703



AGENDA ITEM # II.A

To: Planning Board

From: Charleen Greenhalgh, Town Planner

Date: January 19, 2021

Re: Staff Report – Site Plan Review & Use Special Permits

PB2020-33 Main Street Stone Horse, applicant & owner, c/o William F. Riley, Esq. representative, seeks a new Use Special Permit, to convert one of the two dormitory buildings, specifically the building known as 868 Route 28, into twenty two (22) one-bedroom apartments and to amend the previously approved Site Plan Review Special Permit granted under case PB2019-13 with additional parking requirement and other waivers. The application is pursuant to the Code of the Town of Harwich §325-51.Q (Multifamily Use) and §325-55 (Site Plan Review). The property is located 872 Route 28, Map 25, Parcel A2, in the CH-1 zoning district.

A public hearing on this matter is scheduled for a virtual meeting to be held on Tuesday, January 26, 2021 no earlier than 6:30pm. The Board cannot proceed until evidence in the form of the white certified mailing receipts have been received.

Description

The applicant seeks approval for a Site Plan Review Special Permit and a Use Special Permit for a multifamily use. The property went through site plan review and received approval on May 14, 2019 for two dormitory buildings. The southerly building is complete and the northerly building is still to be finished. It is the northerly building that they are seeking to change the use to 22 one-bedroom apartment. The application was filed with the Town Clerk on December 8, 2020, with revised information filed on December 22, 2020 and January 11, 2021 and include the following:

- 1. Form A Special Permits & Site Plan Review
- 2. Narrative, dated December 8, 2020
- 3. List of Waivers Requested
- 4. Stormwater Management, dated January 31, 2019, prepared by Daniel P. Croteau, P.E.
- 5. Zoning District chart (C-H-1) and Typical Parking Calculation (Zoning Compliance)
- 6. Narrative, dated December 21, 2020; Revised January 10, 2021
- 7. LLC Business Entity Summary
- 8. Revised Drainage Calculations by Moran Engineering Associates, LLC, dated December 21, 2020, including Area of Contribution Plans for the "Previously Proposed" and "Currently Proposed"
- 9. Appendix 4.A Requirements for Applications and Plans Special Permits including Site Plan Review
- 10. As-Built Septic Drainage Plan, Prepared by Moran Associates, LLC, dated 5/26/20.

- 11. Set of plans for "The Stonehorse", prepared by Eldredge Surveying, dated 12-21-2020, revised 2021-01-10 as follows:
 - a. Sheet 1 of 4, Site Plan, scale 1" = 30'
 - b. Sheet 2 of 4, Orthophoto Plan, scale 1" = 30'
 - c. Sheet 3 of 4, Orthophoto Plan, scale 1'' = 30'
 - d. Sheet 4 of 4, Site Plan Overlay, scale 1'' = 30'
- 12. Set of building plans for "The Stonehorse" "North Building", prepared by JB Designs, scale $\frac{1}{4}$ " = 1'- 0" as follows:
 - a. First Level Plan, Page 5 of 12, Revision #6, dated 11-20-19, Revised 12-16-2020
 - b. Second Level Plan, Page 6 of 12, Revision #6, dated 11-20-19, Revised 12-16-2020
 - c. Garden Level Plan, Page 4 of 12, Revision #7, dated 01-09-20, Revised 12-16-2020

MGL Reference and Planning Board Jurisdiction

Pursuant to MGL c.40 A, §9 the Planning Board must, within 65 days of submission of application for a special permit hold a public hearing. The decision of the Planning Board shall take place within 90 days following the close of the public hearing. Further, a special permit issued shall require a two-thirds vote of the Board.

The Planning Board has jurisdiction to review this application pursuant to §325-51.Q for the Multifamily Use Special Permit and §325-55 for the Site Plan Review Special Permit.

Waivers

The following waivers have been request. The explanations from Terry Eldredge, P.L.S. are shown in *italics*.

- 1. Parking: A total of 82 parking spaces are required for the existing and proposed use. Thirty three- (33) spaces are proposed, resulting in a deficiency of 49 spaces. On behalf of the owner, a waiver for the deficiency of 49 parking spaces is requested. The existing approved project required a total of 91 parking spaces and only 17 were proposed which resulted in a deficiency of 74 spaces.
- 2. Maneuvering Areas: The proposed northerly parking area complies with the required aisle width of 24'. The aisle width of the narrowest portion of the newly constructed parking on the Rte 28 side of the project is 1' less than 24' required. On behalf of the owner, a waiver of 1' for this deficiency is requested. The pre-existing three spaces on Deep Hole Road do not comply with the required aisle width unless you take into consideration backing into the Town Road. On behalf of the owner, a waiver for this deficiency is requested.
- 3. Curbing: Curbing has been installed for the parking area running parallel to Route 28. Six wheel stops are proposed for the northerly parking lot. On behalf of the owner, a waiver for any additional curbing or wheel stops is requested.
- 4. Year-round use: I am not sure if a waiver is required, but, on behalf of the owner, a waiver for two- 2 additional year round units is requested.

Comments from other Boards, Departments, Committees

Highway: In his narrative he mentions completing all the landscape and hardscape portions of his permit. If this includes final pavement then this is misleading as the final top coat of asphalt has not been applied. There is still "fabric" covering the catch basins and they are above grade and there for not taking water. This is resulting in the runoff of storm water from the property to Route 28 and Deep Hole Road.

There is also a fair amount of roof runoff on the Old County Road side of the property which has resulted in contributing to the flooding issues down at the Route 28 intersection. If gutter, downspouts and drywells were added to the building it should help reduce the pressure on the Town's drainage system and help prevent flooding at that intersection.

Fire: No issues

Conservation: No issues or comments

Health: If the total septic flow for the entire property does not exceed 9,900 gallons per day, then the Health Department has no issue with the proposal. If the project is approved by the Planning Board, then we will require a breakdown of total septic flow for each building to accompany the building permit application.

Engineering: The Town Engineer reviewed the plans with the Town Planner; comments are noted below. Additionally, he will be reviewing in detail the Stormwater Report and provide comments as needed.

Planning Staff Comments

- 1. This site received a use variance from the Zoning Board of Appeals for the Dormitory Use. The applicant now seeks to change the use of the northerly building to Multifamily Use. Town Counsel was consulted on this, as there was a question about the existing and proposed use approved by a variance and a new use requested via special permit on the property. Town Counsel, Amy Kwesell, KP Law opined that the variance would need to be amended so that the variance addressed the southerly building only. She offered the following Finding/Condition: "The Applicant was granted a Variance by the Zoning Board of Appeals on October 31, 2018 (recorded in the Barnstable Registry of Deeds in Book 31998, Page 236) to allow the two buildings on the Property to be used as dormitories. The Southerly Building (aka #860 Route 28) is constructed and is currently being used as a dormitory pursuant to that Variance. However, the Applicant is now proposing that the Northerly Building (aka #868 Route 28) be used as a multi-family dwelling. Therefore, the Applicant shall request an amended Variance from the Zoning Board of Appeals removing the allowance of the Northerly Building (aka #868 Route 28) to be used as a dormitory."
- 2. As noted, the Town Engineer and Town Planner met on three (3) separate occasions to review the various iterations of plans and application as submitted on December 8 and 22, 2020 and January 11, 2021. Please know that additional information was submitted on Friday, January 15th in response to our January 11th review where we noted that due to timing further staff review could not be completed prior to the Staff Report for the January 26th hearing. This new information is NOT included in this packet and has Not been reviewed by staff.
- 3. One letter from an abutter was received and is included.
- 4. On January 13, 2021, the Interim Town Planner sent an email to the applicant and his representatives with the following:

- a) Regarding the use of some dormitory units year-round, at the time of the hearing this will need to be addressed and included in the findings of facts.
- b) Regarding the waiver for the number of parking spaces, Mr. Eldredge responded that "I will leave the "detailed descriptive reason as to why such a waiver from the number of spaces should be granted" to you, the board, the attorney and the client." The Planning Board nor I have the responsibility of providing a detail descriptive reason, this is entirely up to the applicant and/or the representatives to provide this.
- c) Regarding the parking spaces and driveway along Deep Hole Road. Again, it is the responsibility of the applicant and/or the representatives to provide a reason why these should be allowable. As stated previously, Staff cannot support these three parking spaces or the drive.
- d) A statement has been made that "I have also added the width of the driveway exiting the northerly parking area to Old County Road, which is a foot wider than previously approved, 19' vs. 18', as well as the narrowest widths of the driveways that served the original Stonehorse Motel." Staff believes that this needs to be 24'wide. When it was one row of parking, the reduced width was like adequate.
- e) As stated previously, an existing conditions plan showing what exists on the ground today is required. The orthophoto plans are not sufficient, nor are the added notes stating that "Everything shown hereon is existing, with the exception of:" and the corresponding four item.
- f) We do not understand this statement, "Also note, that the existing surface of the area to the north of the proposed parking spaces and proposed dumpster location in the north parking lot is currently crushed concrete and sand, which is adequate to drive on and which is proposed to be loamed and seeded."
- g) The "previous deficiency" in parking notation is not relevant.
- h) Proposed topography for proposed contours is required.
- i) New waiver #3 There needs to be either wheelstops or curbing, particularly for the "new" parking area off Old County. Further, we cannot discern where the existing curbing begins and ends, even in the parking that is parallel to Route 28.
- j) New wavier #4 We do not understand the request.
- k) A statement was made that the "lot coverages have been amended to address the new parking areas and any other site changes, see the plan of Site Coverage Area Calculations that was originally filed by the attorney". We cannot be responsible for discerning which plans were superseded and which were not. All relevant and necessary information must be on the site plan.
- 1) As stated previously the orthophoto plans are not necessary or relevant to the application.
- m) The parking area containing the 7 parking spaces along Route 28 is intended to be 2-way traffic, however this is adjacent to a 1-way drive. How will a vehicle turn around with this new configuration? The approved plan provided an ADA parking spaces at the northeasterly end, the hatched area served as an available area to turn around.
- n) No ADA parking signs have been noted.
- o) It appears that the ADA parking spaces are located on a 5% grade. How will this work?
- p) We believe that there should be ADA parking for the proposed multifamily use building.
- q) We need a true surveyed existing conditions plan of exactly how the site exists today. We then need a site plan of what is proposed. We have made the suggestion that it be superimposed over the existing plan for clarity.

- r) Please provide a list of all relevant plans and other information. When new information was submitted in late December, it was presumed that these superseded all other plans submitted at the original filing.
 - It is too late to submit revised plans for the hearing on January 26, 2021. These comments will be included in my staff report, which will be completed next week. A copy of said report, along with a Planning Board agenda, containing the log-in information for remote participation will be sent to you.
- 5. At this time, the Town Engineer and the Interim Town Planner are not in a position to make a recommendation on this application. We will do so once a completed application and plans are submitted. We have made several attempts to make it clear what needs to be submitted based on Zoning and Rules and Regulations requirements. We are making no conclusion on the proposed use at this time, only that the information provided for the Site Plan is both incomplete and inadequate.

VOTES

Continuance

If the Board will require additional information or wants to take the matter under advisement the following motion is recommended:

Move to continue the public hearing for **PB2020-33 Main Street Stone Horse**, to no earlier than 6:30 pm on ______ (Next Meeting Dates: *Feb. 23, Mar. 9, Mar. 23*) for the following reason(s): *Need to provide reasons for the continuance...additional information...taking it under consideration....*

TOWN OF HARWICH PLANNING DEPARTMENT

PLANNING BOARD APPLICATION

SPECIAL PERMITS & SITE PLAN REVIEW

FORM A



Mass.

TO THE TOWN CLERK, HARWICH, MA	DATE
PART A – APPLICANT IN	FORMATION/AUTHORIZATION
Applicant Name(s)	
Main Street Stone Horse LLC	
Representative/Organization (Who will serve as the primary contact responsible for facilitating this application?)	William F. Riley, Esq.
Mailing address	P.O. Box 707
Town, ST, Zip	Chatham, MA 02633
Phone	508-945-5400
Fax	
E-mail	billriley@rileyandnorcross.com
All other forms and information as required in th shall be submitted as part of this application.	e Harwich Code Chapter 400, Rules and Regulations
application is true and accurate; that you agree laws and the terms and conditions of any app	
Owner(s) - Authorization must accompany applic	ation if the owner is not the applicant
Official use only:	The state of the s
PLANNING DEPARTMENT	IOWN CLERK
Case # PB2020 - 33	DEC 0 8 2020 FORVIN CLERK Town of Harwich,



Devised page 2 of application PB 2020-33

PART B - PROJECT LOCATION

Legal Street Address	872 Route 28	Village/Zip Code
Title Book/Page or L.C.C. #	Book 31890, Page 119	
Map(s) / Parcel(s)	Map 25, Parcel A2	
Zoning & Overlay Districts	CH-1	*Historic?
Frontage (linear feet)	589.16 ft.,184.65 ft.6	79.34 ft.
Total land area (s.f.)	113,779 sq. ft.	
Upland (s.f.)	113,779 sq. ft.	Wetlands (s.f.) None

PART C - PROJECT DESCRIPTION

Existing Floor Area in Sq. Ft	Gross: 15,606 sq. ft. Ne	t:
Proposed Floor Area in Sq. Ft Change in Sq. Ft + / -	Gross: Ne shares Ne	t:
Change in Sq. Ft + / -	Gross: No change Ne	t:
Existing # of parking spaces	17 Proposed # of parkin	g spaces: 31
Existing Use(s)	Dormitory in two Buildings	
Proposed Use(s)	Dormitory in one building; mu.	
Attach a separate narrative if necessary.	bedroom apartments in one but	ilding.

The undersign hereby files an application with the Harwich Planning Board for the following special permits as proposed under the provisions of the Harwich Zoning Code: (check all that apply)

Site Plan Review § 325-55:

3
☐ Any floor area expansion of any structure or expansion of exterior space, other than parking,
serving any of the following: commercial, industrial, multi-family or educational use or personal wireless
service facility or the creation of a drive-up or drive-through window
☐ Expansion or reconfiguration of an existing parking lot and/or driveway(s) serving said parking lot.
🕱 Establishment of any new commercial, industrial, multi-family, educational, fast food/take out
restaurant or personal wireless service facility.
\square Establishment of any new retail use(s) in the Industrial (IL) Zone.
□ Waiver of Site Plan § 325-55.F
Article V, Use Regulations:
☐ Paragraph, sub-paragraph # ☐ Paragraph, sub-paragraph #
☐ Paragraph, sub-paragraph #, supplemental regulation # § 325-14
Article X, Special Permits:
☐ Structures w/ gross floor area of 7,500+ s.f. § 325-51
☐ Structures requiring 20 or more new parking spaces § 325-51
☐ Accessory Apt./Shared Elderly Housing § 325-51.H ☐ Mixed Use § 325-51.M
☐ Drinking Water Resource Protection § 325-51.C ☐ Two Family § 325-51.N
☐ Village Commercial, Harwich Port § 325-51.L ☐ *Harwich Center Overlay § 325-51.O
☐ Signage § 325-27.F Additional Cluster, Excess SF, Non-entry Facades
Other Special Permits:
☐ Six Ponds Special District - Article XVI
☐ Wind Energy Systems - Article XVIII ☐ Large Scale Wind Generation - Article XIX
☐ Wind Energy Systems - Article XVIII ☐ Large Scale Wind Generation — Article XIX ☐ Other (i.e. Alternate Access § 325-18.P, Special Cases § 325-44.B) Multi Family, Section 325-51Q
☐ Repetitive Petition (MGL Ch 40A, §16): Proposed project evolved from a previously denied plan
submitted to the Planning Board on Year/Case #

*Note: Projects within the Harwich Center Overlay District may also be within the Harwich Center Historic District. This requires separate filing with the Historic District and Historical Commission. Please inquire for forms and instructions.

NARRATIVE

DATE: December 21, 2020; Revised January 10, 2021

PROPERTY: 868 Route 28, South Harwich, MA

PETITIONER: Main Street Stone Horse, LLC

SITE PLAN SPECIAL PERMIT

Since the grant of the special permit by the Harwich Planning Board for the construction of two- (2) dormitory buildings and appurtenances on May 14, 2019 (Case No.: PB2019-13), the Applicant has in accordance with the special permits constructed two new dormitory buildings and rehabbed the existing office building with a total of 90 bedrooms and has substantially completed the hardscape and landscape as shown on the latest site plan.

The Applicant seeks to modify the north building at 868 Rte 28 from 42 bedrooms to a multi-family building containing 22 one bedroom apartments.

At the time of the construction of the buildings, many employers of seasonal help entered into an agreement with the Applicant that would utilize all the bedrooms constructed on the site. Due to changes in the economy as a result of the COVID-19 pandemic the building as currently constructed is uneconomic.

As a result of our borders to foreign workers being closed, the companies with whom the Applicant is working with have suggested that one bedroom apartments would be of greater utility for local year round work force who find it difficult to find housing. In addition, the one bedroom apartments are more desirable for higher level employees.

The modified project as proposed will have 20 fewer bedrooms which will reduce sewage flow on the site by 2,200 gallons per day.

The modified project will comply with 5% of the total number of units being handicap accessible.

Under the previously approved Planning Board Special Permit, 20 rooms were approved for year round use. The Applicant requests that the 22 one bedroom apartment units be approved for year round use. None of the dormitory units will NOT be used year round, only the apartments.

The number of parking spaces required for the dormitory and apartment use is 82. The Applicant previously proposed providing 17 spaces as originally approved by the Planning Board; and an additional 16 spaces are now proposed for a total of 33 spaces. A parking waiver of 49 parking spaces is required and is requested as a part of this filing.

Circulation arrows have been added to the site plan to restrict two driveways or portions of two driveways to be one-way.

There will be no exterior changes to the buildings.

Landscaping completed to date is comprised of 22 trees that have been planted and areas that were disturbed during construction being loamed and seeded.

Proposed landscaping consists of loaming and seeding areas shown in green on the Site Plan.

The layout of walkways, patios, driveways, and parking areas were field adjusted as shown on the latest Site Plan.

Outside lighting has been installed on all of the buildings and the outside ground lighting has been installed for the South building and the parking area running parallel to Route 28. Wiring for outside ground lighting for the North building and the northerly parking lot has been installed.

With the increase in hardscape, based on Drainage Calculations prepared by Dan Croteau, PE, one additional leach pit for system number 1 as shown on the Site Plan and the Area of Contribution Sketch will be required for drainage which will handle the additional runoff from the parking area to be expanded.

There will be no changes to the sewage system installed.

There are (6) fire hydrants located within 500 feet of the subject property. There are four (4), within 50 feet of the subject property, which includes one (1) installed on the subject property as part of the originally approved project. Also, the new dormitory buildings are both sprinkled for fire safety.

Fire access for apparatus and equipment is provided to all sides of the buildings, from Rte 28, Old County Road, the driveway from Rte 28 to Old County Road and the driveway paralleling Rte 28.

There will be no changes to the site with the exception of additional parking and landscaping.

Y:\Clients\Rudnick, Ron 0539 2891\STONEHORSE\2020 Modifications\Documents filed with the PB 2021-01-11\01 Narrative - Revised.docx

THE STONEHORSE PROJECT 868 ROUTE 28

Assessors MAP 25, PARCELS A1, A2, and A4-18 ZONING DISTRICT C-H-1

LIST OF WAIVERS REQUESTED

Revised January 10, 2021

1. Parking:

A total of 82 parking spaces are required for the existing and proposed use. Thirty three- (33) spaces are proposed, resulting in a deficiency of 49 spaces. On behalf of the owner, **a waiver for the deficiency of 49 parking spaces** is requested.

The existing approved project required a total of 91 parking spaces and only 17 were proposed which resulted in a deficiency of 74 spaces.

2. Maneuvering Areas:

The proposed northerly parking area complies with the required aisle width of 24'.

The aisle width of the narrowest portion of the newly constructed parking on the Rte 28 side of the project is 1' less than 24' required. On behalf of the owner, **a** waiver of 1' for this deficiency is requested.

The pre-existing three spaces on Deep Hole Road do not comply with the required aisle width unless you take into consideration backing into the Town Road. On behalf of the owner, **a waiver for this deficiency** is requested.

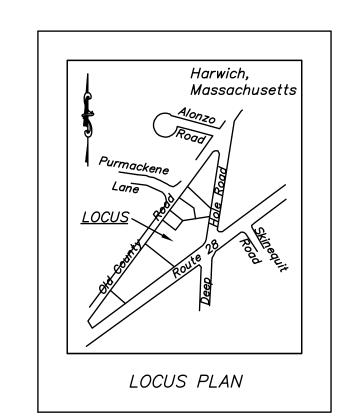
3. Curbing:

Curbing has been installed for the parking area running parallel to Route 28. Six wheel stops are proposed for the northerly parking lot. On behalf of the owner, **a waiver for any additional curbing or wheel stops** is requested.

4. Year-round use:

I am not sure if a waiver is required, but, on behalf of the owner, a waiver for two- 2 additional year round units is requested.

 $Y:\clients\ Rudnick,\ Ron\ 0539\ 2891\ STONEHORSE\ 2020\ Modifications\ Documents\ filed\ with\ the\ PB\ 2021-01-11\ 02\ List\ of\ Waiver\ Requests\ -Revised.docx$



Minimum Area

Front Setback

Side Setback Rear Setback

Minimum Frontage

Max. Site Coverage

Max. Bldg. Coverage

Side/Rear Line

Max. Driveway Width

Max. Bldg. Height

Parking Setback

Street

ZONING REQUIREMENTS

OWNER OF RECORD

Plan Book 322, Page 76, Lots 1 and 2

Voluntary withdrawal from Registration

Main Street Stone Horse, LLC

Deed Book 31,890, Page 119

LC Plan 11886-G, Lot 18

Zone C-H-1(Commercial Highway 1)

20,000 S.F.

Mailing Address: 1455 Main St, Chatham MA 02633

Document 1,167,082; Deed Book 25,485, Page 104

Assessors' Map 25, Parcels A1, A2 and A4-18

NOTES:

- 1. As-Built drainage location based on dwg drawing furnished by Moran Associates, LLC dated 05-26-2020..
- 2. Gazebo to be used as a bus stop

Proposed/Existing

1,603.75

113,779 S.F. or 2.612 Ac.

34.6% 39,394 S.F.

10.6% 12,114 S.F.

23.2' Existing Building (office) to Remain

(14.7' to Electrical Enclosure)

29.3' Dormitories; Office Bldg. exists

driveways along Rte 28 exist

NOTES continued:

7. Landscaping planted as part of the

trees planted north of the northerly

were loamed and seeded, with the

additional parking is proposed.

original approval, consists of 22 trees, 6

trees planted along Old County Road, 13

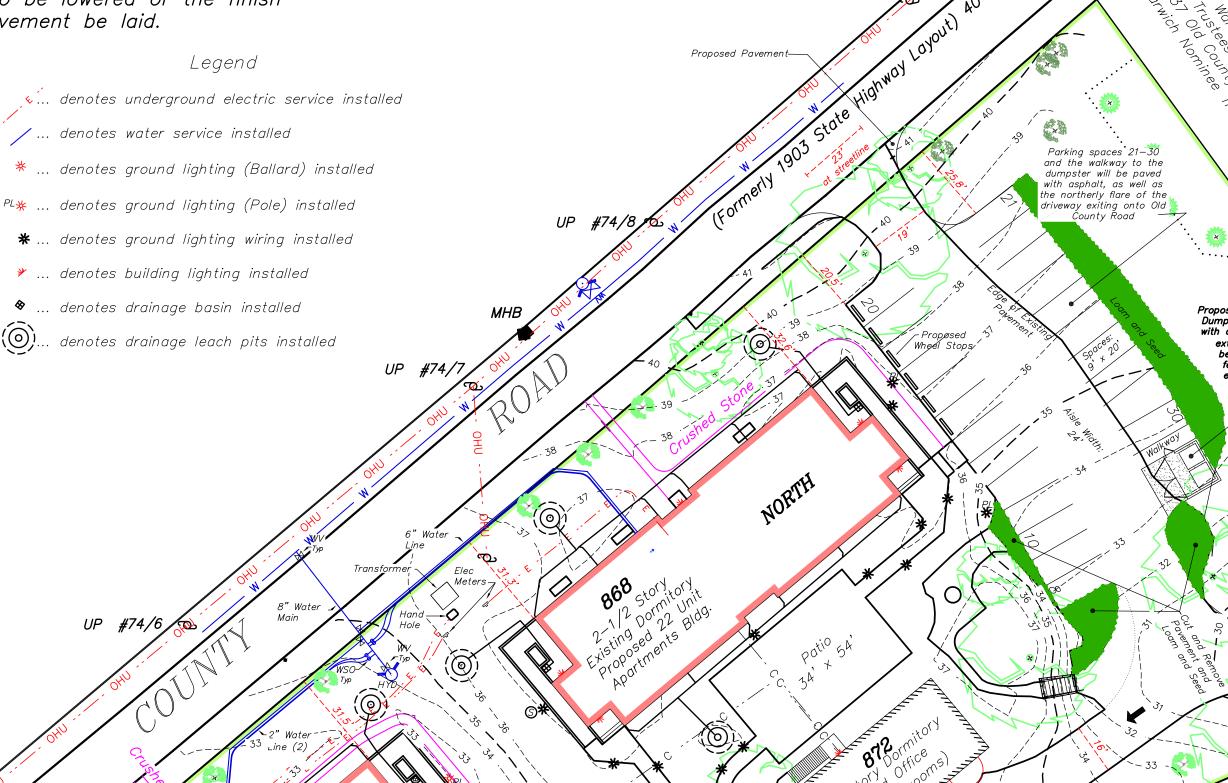
parking area, and 3 trees planted along

Rte 28; and in addition disturbed areas

exception of the area where proposed

23' at Old County Road;

- 3. All outside lighting on buildings have been installed.
- 4. Outside ground lighting for the South building has been installed as well as the lighting for the parking area paralleling Rte. 28.
- 5. Wiring for outside ground lighting for the North building has been installed, but the light fixtures have not been installed.
- 6. The finish course of pavement has not been laid. Therefore, the catch basins either need to be lowered or the finish course of pavement be laid.



Area = 113,779 S.F.\ or 2.612 Ac.± On April 9, 2019, the Harwich Board of

> Everything shown hereon is existing, with the exception of:

□the parking spaces on the north side of the existing northerly parking lot; □ proposed pavement on the northerly side of the driveway at the intersection with Old

County Road; and □ proposed concrete slab in the area of the dumpster location; and □ proposed additional leach pit.

Note, there are three areas of existing pavement labeled "cut and remove pavement and loam and seed.

Also note, that the existing surface of the area to the north of the proposed parking spaces and proposed dumpster location in the north parking lot is currently crushed concrete and sand, which is adequate to drive on and which is proposed to be loamed and seeded.

On October 31, 2018, the Harwich Zoning Board of Appeals (case # 2018-32) voted 5-0-0 to grant a USE VARIANCE for the subject property to allow Dormitory Use (recorded as Dd Bk 31,998, Pg 236.

Health voted 3-0-0 to grant approval of the SEPTIC SYSTEM DESIGN for the subject property to allow a design flow of 9,900 gpd (recorded as Dd Bk 32,074, pg 309.

On May 14, 2019, the Harwich Planning Board granted a Special Permit (case No.: PB2019-13 for the construction of two-(2) dormitory buildings and appurtenances (recorded as Dd Bk 32,077, Pg 292)

PARKING Chapter 325, Article IX, Section 325-39 Off-Street Parking Schedule

	J	
USE	Spaces Required	Spaces Needed
Managers Quarters	1.5 per unit	2
Proposed 22 Apts	1.5 per unit	<i>33</i>
Dormitory 47 Units	1 per room	<u>47</u>
	Total Required	82
	Total Provided	<u>33</u>
	Deficient	49 Space
	Previous Deficiency	74 Space

Building Coverage (incl. Gazebo and Electrical 12,114 S.F. Enclosure)

Three spaces on Deep Hole

Site Coverage

Pavement

Total

Oliver Homes, LLC

Certificate # 195101

Certificate # 195101

Compared to the compared to the

Proposed Landscape Buffer

Road and driveway to same	1.750 S.F
Walkways	
Crushed Stone	1,380 S.F
Concrete	2,475 S.F
Remnant Walkway	530 S.F.

17,552 S.F.

Crusnea Stone	1,300 3.1
Concrete	2,475 S.I
Remnant Walkway	530 S.F
Patio	1,836 S.I
Handicap Ramps	1,280 S.I
Transformer Pad	40 S.F
AC Pads	108 S.F

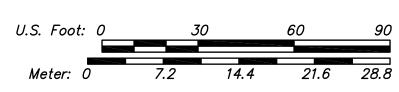
Steps

10p0	
Conc. Steps to Parking Area	45 S.F.
Brick Step to Parking Area	43 S.F.
Azek Step to Parking Area	22 S.F.
Conc. Steps behind Dorms	<i>30 S.F.</i>
Main Steps to Dorms	232 S.F.
Wooden Handicap Ramp/Landing	96 S.F.
Brick Step to Office Bldg.	<i>57 S.F</i> .

27,280 S.F. Total Site Coverage, excluding Bldg's and three spaces on Deep Hole Road and driveway to same

39,394 S.F. Total Site Coverage, including Bldg's and three spaces on Deep Hole Road and driveway to same

Exclusive of concrete walls, sloped rock between parking area and crushed stone path north of North Building, and crushed stone at drip edge of buildings.



Date: 12-21-2020 Scale: 1" = 30'Project No.: H-2891-85.0

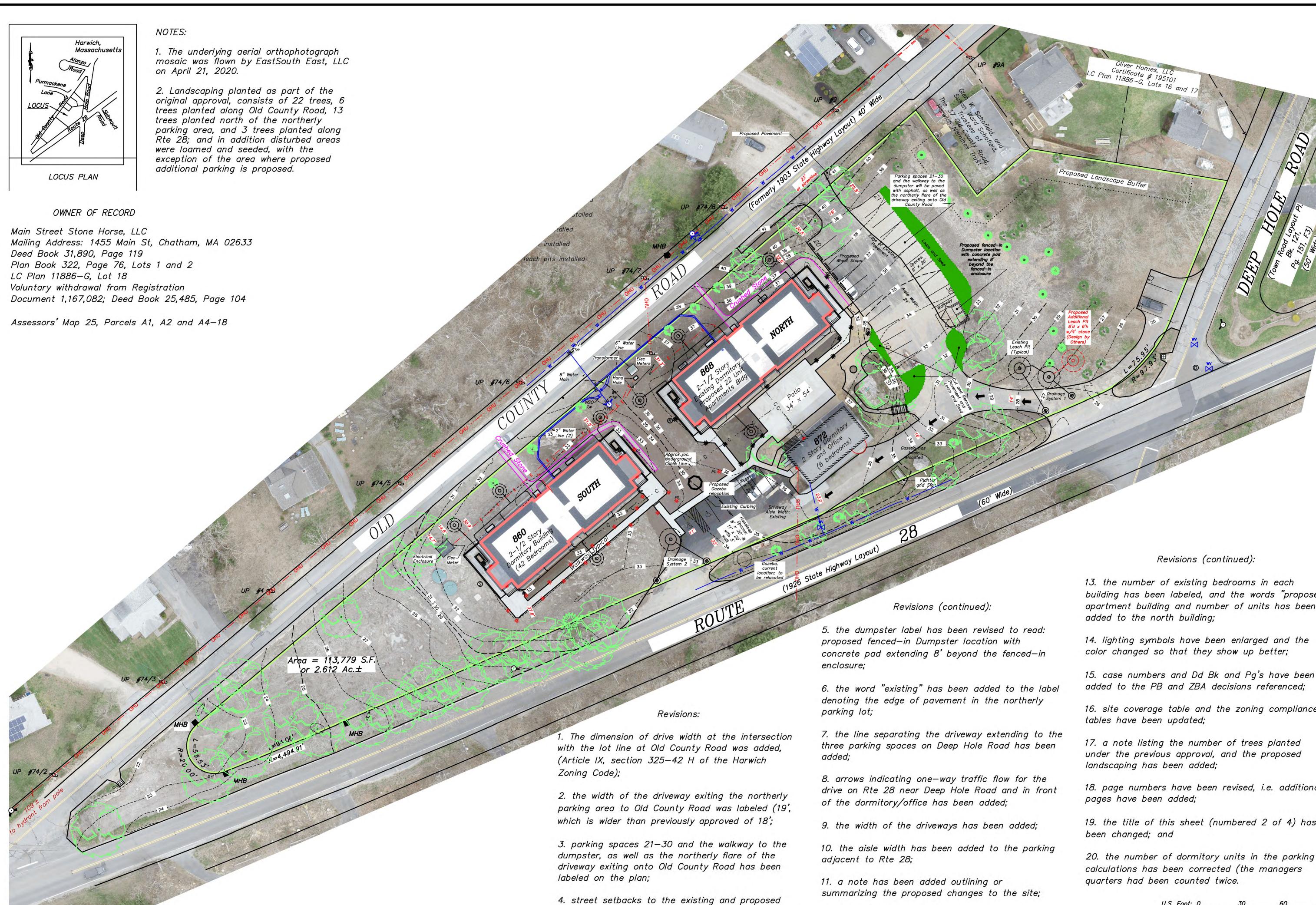
Sheet No.: I of $\,4\,$

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UP #74/2

X: \ARCHIVED DRAWINGS\2891 850 - STONEHORSE Redevelopment Project\2020 Modification\SITE PLAN 2020-12-20.dwg

HORSE CY, STONEGE WA: (3 D i THE



parking spaces for the northerly parking arrea have

been added;

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12. a legend has been added;



			Date	2021-01-10	7		
	ORTHOPHOTO PLAN	With Line Work	Description of Revision	Removed Zoning Compliance Table and added List of 2021-01-10	Revisions that are applicable to Sh 1, SITE PLAN and	the plan view of this Sh 2	
1			#				

HORSE

STONE

THE

ureage, **5 U**. 18) 776

DGE m, MA; (3

building has been labeled, and the words "proposed apartment building and number of units has been

14. lighting symbols have been enlarged and the color changed so that they show up better;

added to the PB and ZBA decisions referenced;

16. site coverage table and the zoning compliance

17. a note listing the number of trees planted under the previous approval, and the proposed

18. page numbers have been revised, i.e. additional

19. the title of this sheet (numbered 2 of 4) has

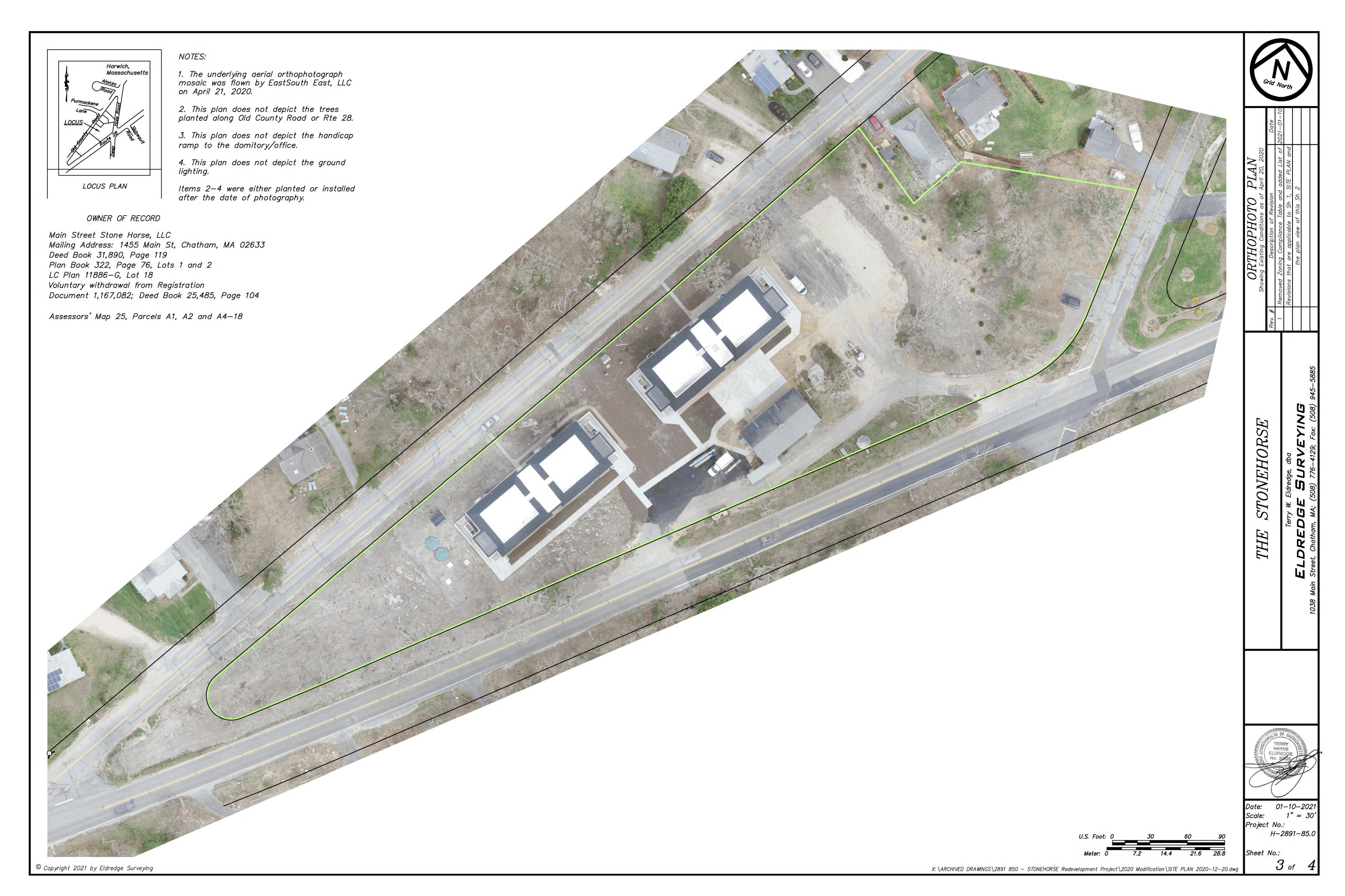
20. the number of dormitory units in the parking calculations has been corrected (the managers

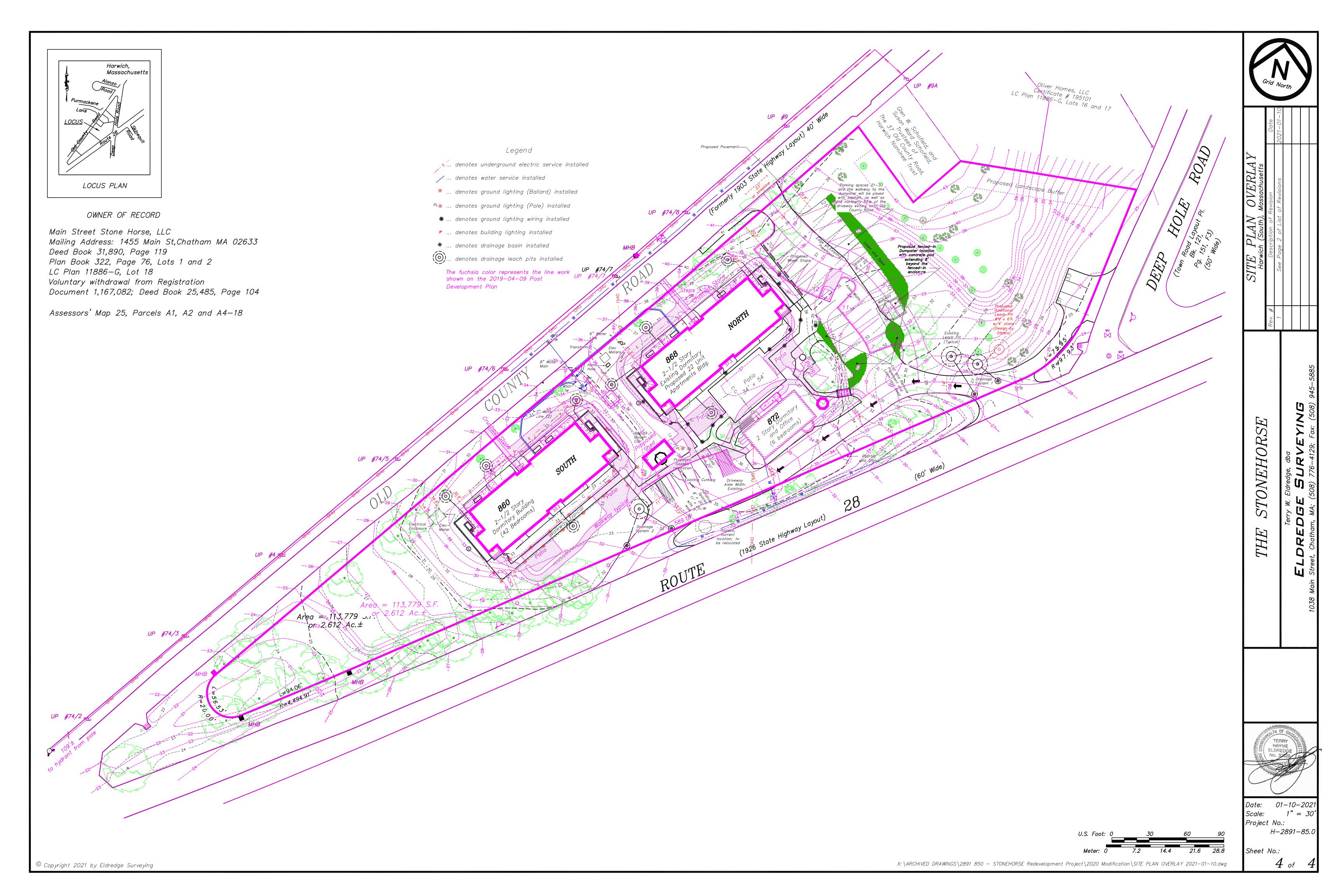
1" = 30'Scale: Project No.: H-2891-85.0 Sheet No.:

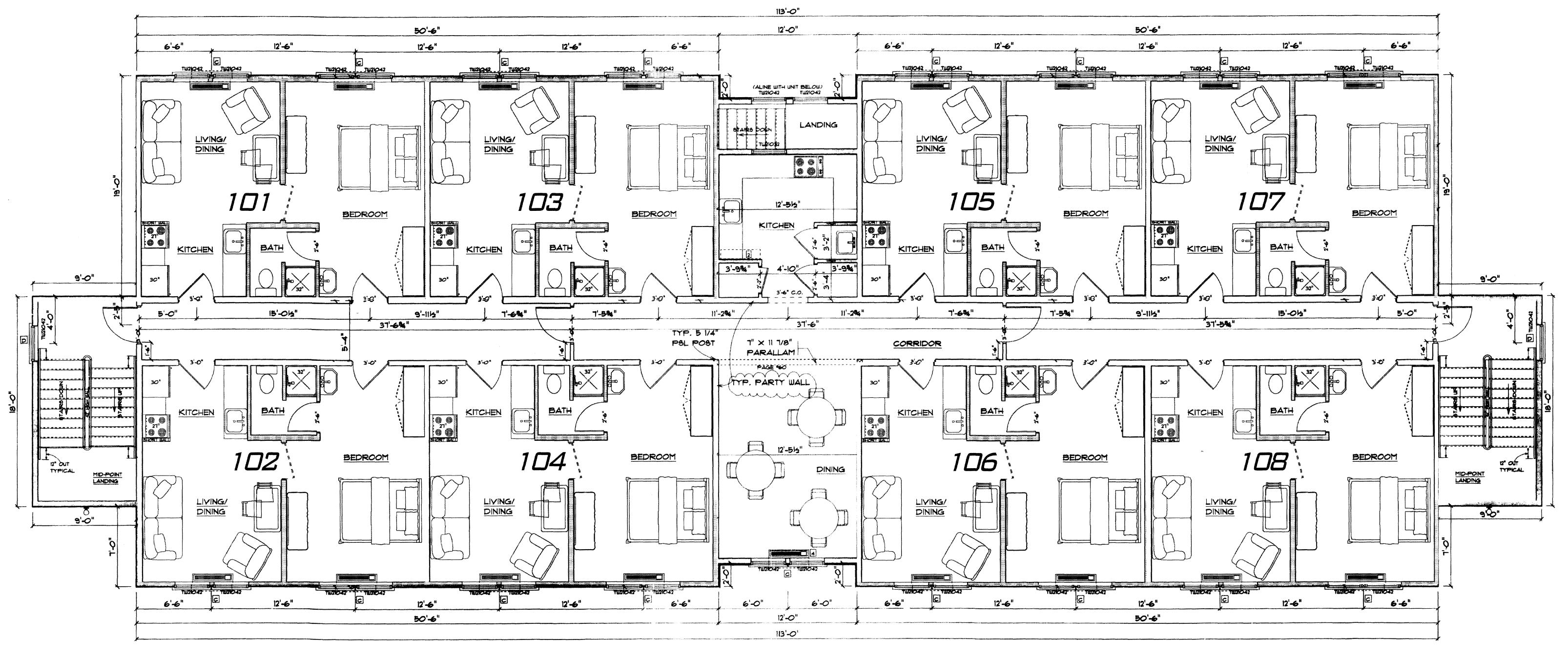
Date: 12-21-2020

2 of 4

X: \ARCHIVED DRAWINGS\2891 850 - STONEHORSE Redevelopment Project\2020 Modification\SITE PLAN 2020-12-20.dwg







FIRST LEVEL PLAN

1 14 6K HEAT PUMP UNITS
2 1 9K HEAT PUMP UNITS
4 2 12K HEAT PUMP UNITS

Revised 12-16-2020

Revisions include importing apartment layouts and renumbering units in the same format as the previous bedroom layout was numbered

BUILDER

JOB ADDRESS
THE STONEHORSE
868 ROUTE 28
HARWICH MA.

DESIGN

NORTH BUILDING

PROPOSED 2 1/2 STORY

DORMITORY BUILDING.

WWW.JBHOMEDESIGNS.COM

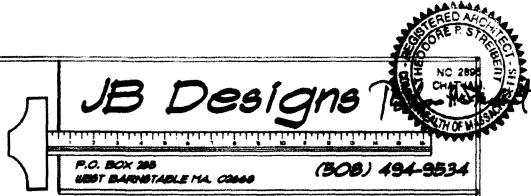
DATE REVISION DRA

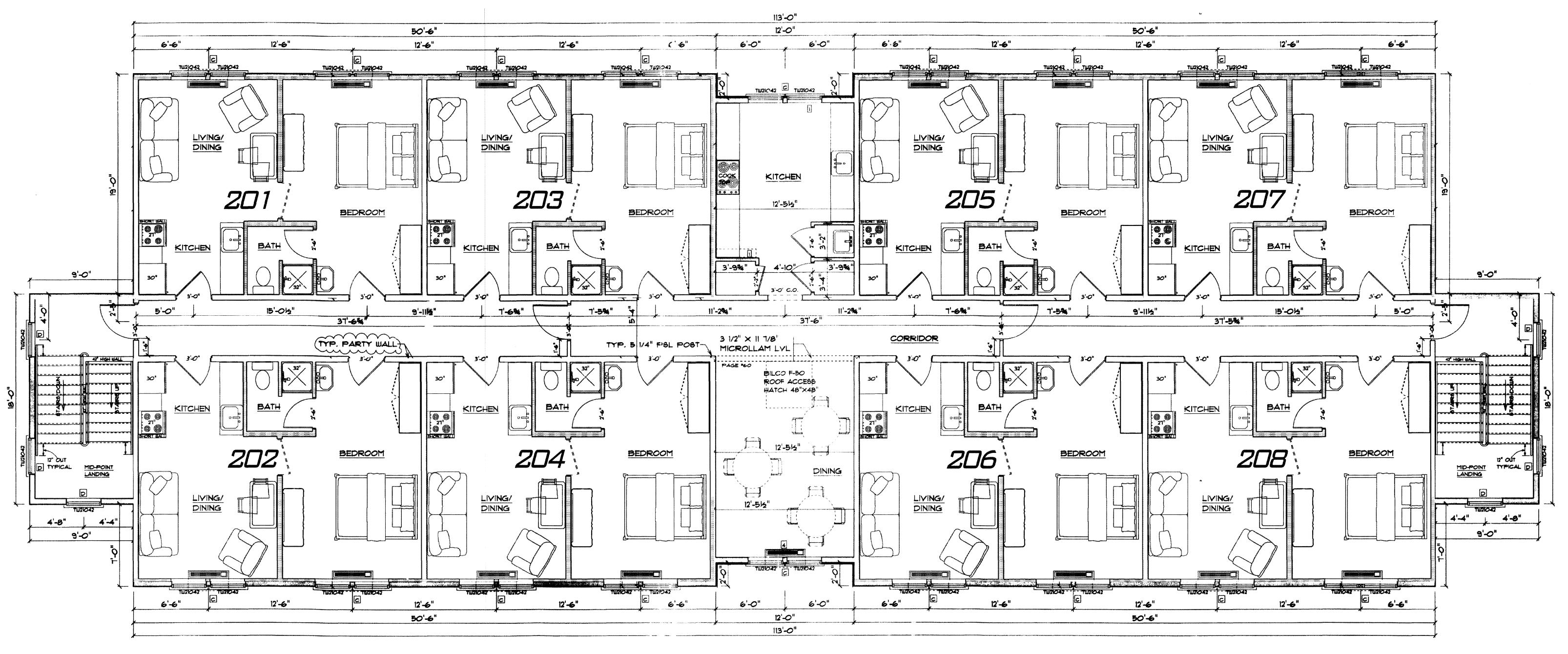
11-20-19 #6 J

TENT OF ALL CONCRETE FOOTINGS (3) ALL FOOTINGS

(3) ALL FOOTINGS SHALL EXTEND BELOW PROSTLINE VERIFY

(4) VERIFY STRUCTURAL ELEMENTS FOR DESIGN 4 SIZE





SECOND LEVEL PLAN

1 17 6K HEAT PUMP UNITS
1 12K HEAT PUMP UNIT

Revised 12-16-2020

Revisions include importing apartment layouts and renumbering units in the same format as the previous bedroom layout was numbered

BUILDER

JOB ADDRESS THE STONEHORSE 868 ROUTE 28 HARWICH MA. DESIGN
NORTH BUILDING
PROPOSED 2 1/2 STORY
DORMITORY BUILDING.

WWW.JBHOMEDESIGNS.COM

LOCAL BUILDING CODES AND ORDINANCES, 43 DESIGNS MAY NOT BE HELD RESPONSIBLE

11-20-19

MUST BE DETERMINED BY LOCAL SOIL CONDITIONS AND ACCEPTABLE (4) VERIFY STRUCTURAL ELEMENTS FOR DESIGN 4 SIZE

*6 JB •60

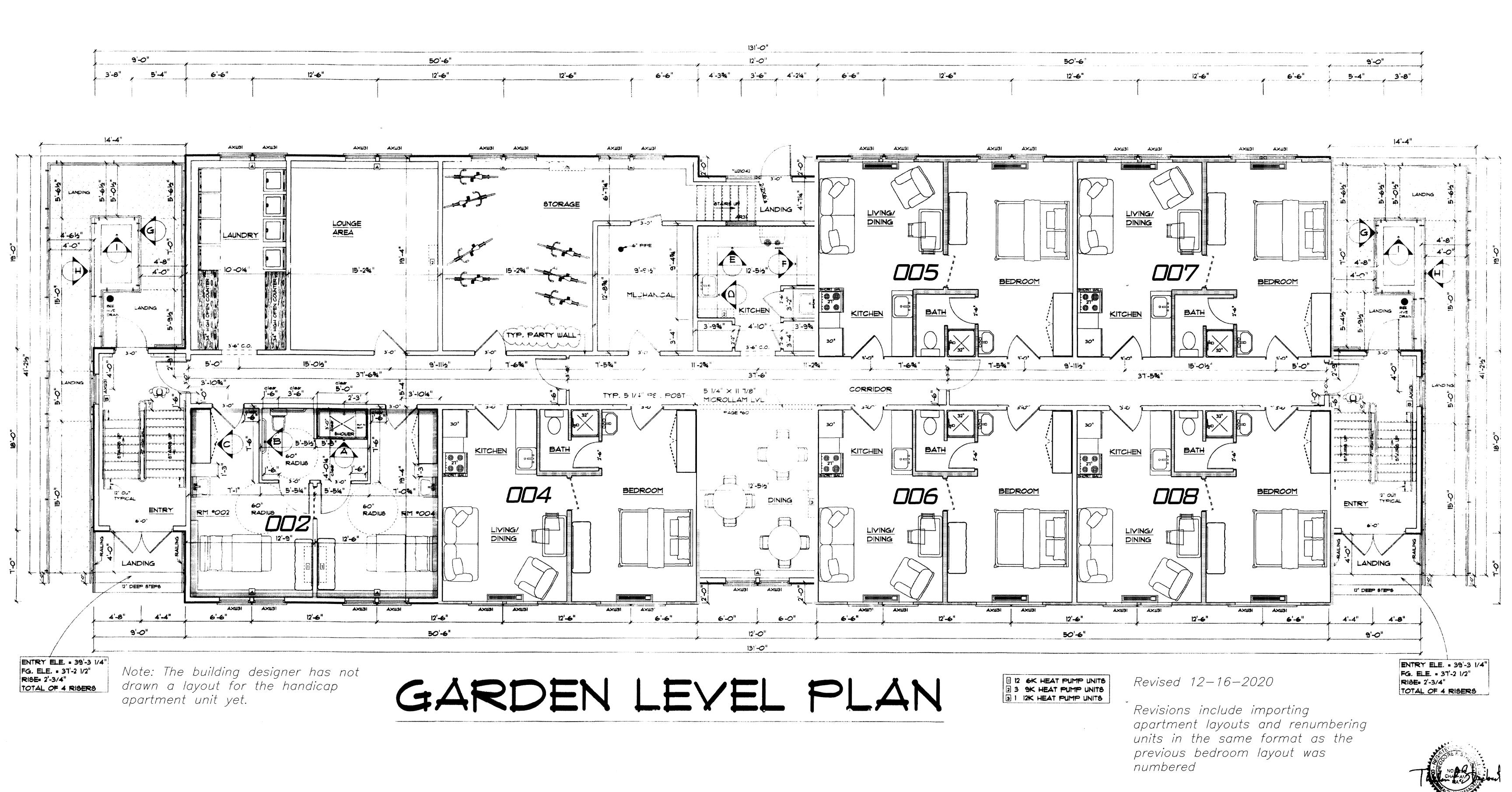
PAGE SCALE

- 6 of 12 1/4" | 1'-0"

| B Designs | 1/4" | 1'-0" | 1/4" | 1'-0" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" |

P.O. BOX 286 UBST BARNSTABLE MA. 02668

(308) 494-9534



1) PURCHASE OF DRAWINGS LEAVES PURCHASER RESPONSIBLE FOR COMPLIANCE WITH ALL (2) EXACT SIZE AND REINFORCEMENT OF ALL CONCRETE FOOTINGS

LOCAL BUILDING CODES AND ORDINANCES, JB DESIGNS MAY NOT BE HELD RESPONSIBLE FOR SITE CONDITIONS OR FOR THE USE OF THESE DRAWINGS DURING CONSTRUCTION.

DATE 1-9-20

PRACTICES OF CONSTRUCTION, VERIFY DESIGN WITH LOCAL ENGINEER.

REVISION

MUST BE DETERMINED BY LOCAL SOIL CONDITIONS AND ACCEPTABLE (4) VERIFY STRUCTURAL ELEMENTS FOR DESIGN 4 SIZE

• 4 of 12 1/4" •1'-0"

JB Designs

(508) 494-9534

P.O. BOX 208 WEST BARNSTABLE MA. 02648

JOB ADDRESS

THE STONEHORSE

868 ROUTE 28

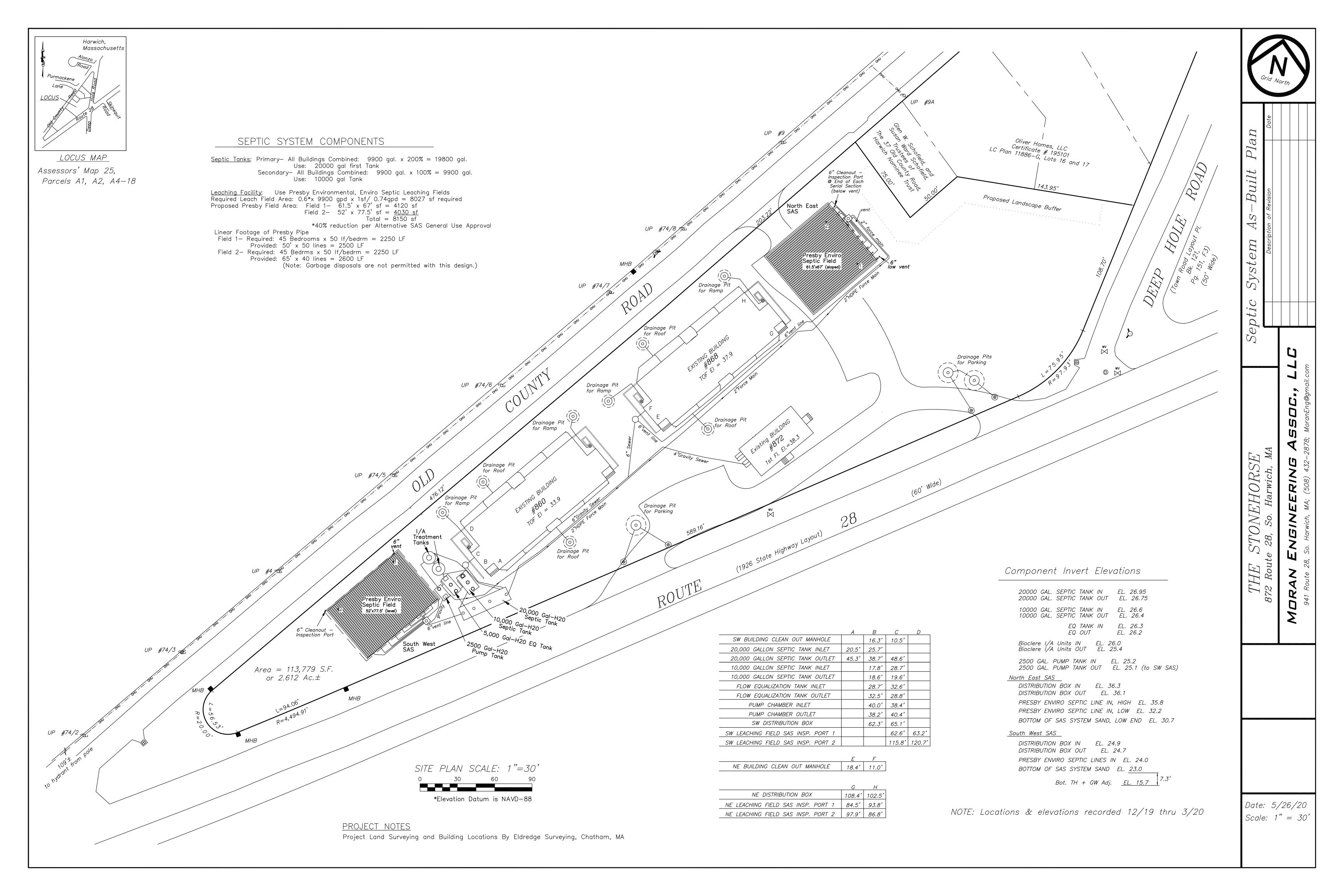
HARWICH MA.

NORTH BUILDING

PROPOSED 2 1/2 STORY

DORMITORY BUILDING.

BUILDER



MORAN ENGINEERING ASSOCIATES, LLC

941 ROUTE 28, HARWICH

P.O. BOX 183 South Harwich, MA 02661 moraneng@gmail.com

O: 508-432-2878 F: 508-432-3501

December 21, 2020

REVISED DRAINAGE CALCULATIONS

Stonehorse Work-Force Housing @ 872 Route 28, South Harwich, Ma

Proposed Conditions: Runoff for 25-Year Storm Peak Flow

Using NOAA Atlas 14, Vol 10, Ver 2 for 25 yr, 15min duration => 1.13 inch/15min

=} 1.13x4 = 4.52 in/hr

Revised calculations for increase in paved parking.

Revised contribution area per project surveyor, Terry Eldredge, sketch attached.

Catch Basins Contribution Drainage Area - 1

	Area	C
Paved Driveway & Parking =	13,500 sf	0.95
Walks & Hardscape = $1244 \text{ sf/}2 + 76\text{sf} =$	698 sf	0.95
Landscaping =	6022 sf	0.5

Peak Runoff = (0.95 x (13,500+698 sf) + 0.5 x 6022 sf) x 4.52 in/hr x 1 ft/12in = 6215 cf/hr 6215 cf/hr x 1 hr/60min = 103.6 cf/min (= 1.73 cf/sec)

Q gal/min = $103.6 \text{ cf/min } \times 7.48 \text{ gal/cf} = 775 \text{ gal/min}$

Required Leaching Area = 775 gal/min x 1sf / 0.7 gal/min = 1107 sf Required

Provided Leaching Area: 3-Leach Pits (8'diam x 5'deep w/4'stone)

= $3x (\pi 16'x5' + \pi 8'x8') = 1357$ sf Provided

Storage Volume: $3x(\pi 3.67'x3.67'x6' + 0.3(\pi 8'x8'x6' - \pi 3.67'x3.67'x6')) = 1619 \text{ cf}$

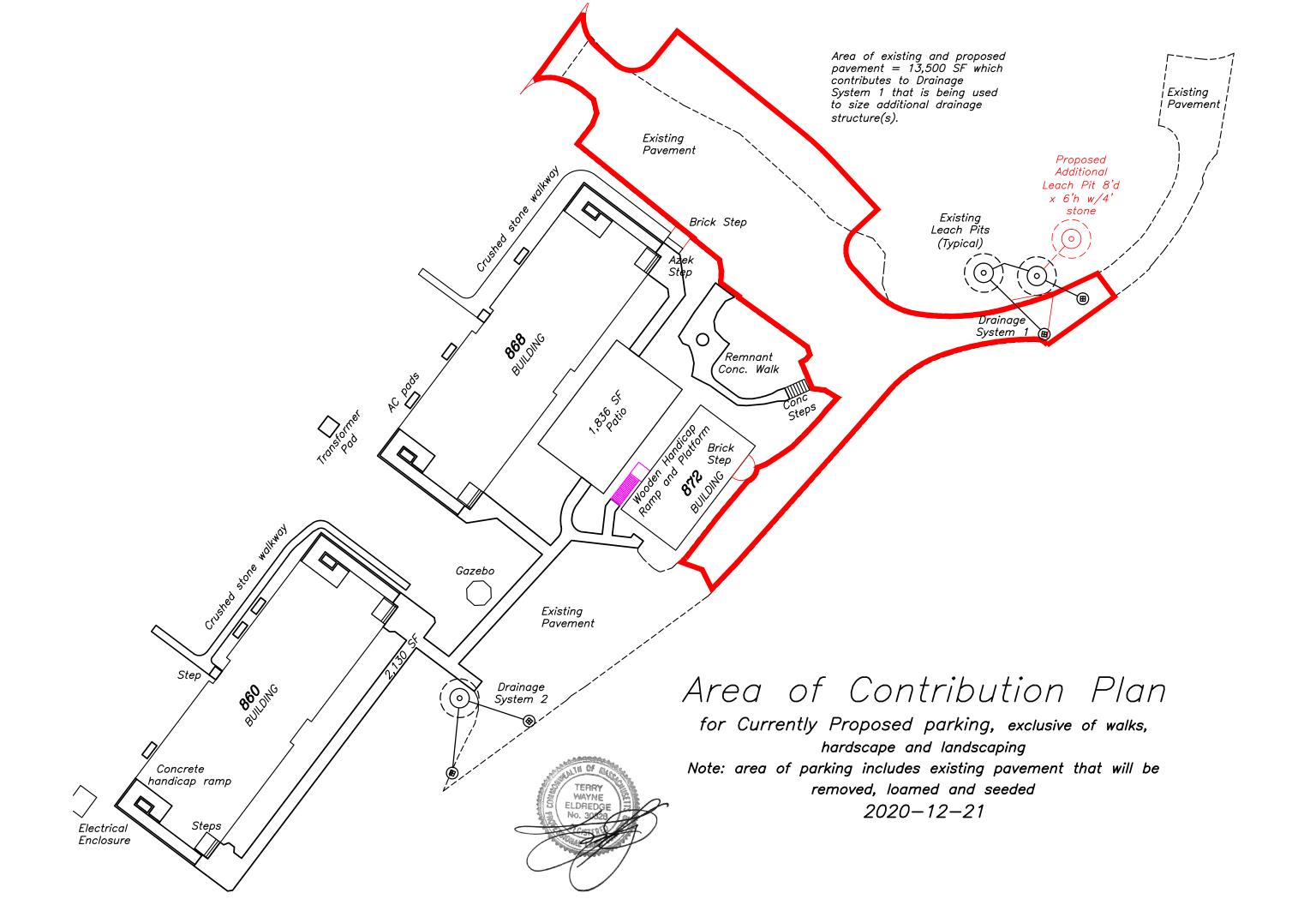


1	ns Contrib t	ution Area -	1 - CURRE	NTLY PROPOS	ED			
1				Currently		•		
				Proposed			Chi	ny
				s.f.	C			
	Paved	Driveway a	nd Parking:	13,500	0.95			
		Walks and	Hardscape:	698	0.95			
		Gra	ass Parking:	0	0.7			
		La	andscaping:	6,022	0.5			
Peak Runo	off:							
	0.95	. X	14,198	"="	13,488			
plus	0.7	x	0	"="	0			
plus	0.5	X	6,022	11 == 11	3,011			
				TOTAL	16,499			
Total	16,499	X	4.52	inch/hour	X	1 ft/12 in	"="	6,215 c.f./hr.
			1 hr./60					
6,215	c.f./hr.	X	min	"="	103.6	c.f./min		
				-				
Q gal/min	"="	103.6	c.f./min	X .	7.48	gal/c.f.	"="	775 gal/min
			r.		- 4			
Required L	.eaching				1 s.f./0.7			
Area =		775	gal/min	X .	gal/min	"="	1107	s.f. Required
			•	h 4' Stone (to				
	(Pi	×	Total Diameter	x	Height	u ₌ u	Surface Area	
	(Pi	x		х	Height	"="		
Leaching	(Pi	x		x	Height	"="		
Area	·		Diameter		-		Area	
_	3.14158	x	Diameter	x	5	"=""		
Area Provided	3.14158 (Pi	x x	Diameter 16 radius	x x	5 radius	# <u>=</u> #	Area 251	
Area	3.14158	x	Diameter	x	5	"="	Area 251 201	
Area Provided	3.14158 (Pi	x x	Diameter 16 radius 8	x x x	5 radius 8	"=" "=" TOTAL	Area 251 201 452	s.f. per pit
Area Provided	3.14158 (Pi	x x	Diameter 16 radius 8	x x	5 radius 8	"=" "=" TOTAL x # of Pits	251 201 452 3	s.f. per pit
Area Provided	3.14158 (Pi	x x	Diameter 16 radius 8	x x x Additional Pit	5 radius 8 Proposed	"=" "=" TOTAL x # of Pits "="	251 201 452 3 1,357	s.f. per pit
Area Provided Plus	3.14158 (Pi 3.14158	x x	Diameter 16 radius 8	x x x Additional Pit	5 radius 8 Proposed	"=" TOTAL x # of Pits "=" eater than	251 201 452 3 1,357 1107	s.f. per pit s.f. s.f. Required
Area Provided	3.14158 (Pi 3.14158	x x x	Diameter 16 radius 8	x x x Additional Pit	5 radius 8 Proposed	"=" "=" TOTAL x # of Pits "="	251 201 452 3 1,357	s.f. per pit s.f. s.f. Required s.f.
Area Provided Plus Storage Vo	3.14158 (Pi 3.14158	x x x	16 radius 8	x x x Additional Pit x Inside	5 radius 8 Proposed Which is gr	"=" TOTAL x # of Pits "=" eater than by	251 201 452 3 1,357 1107 250	s.f. per pit s.f. s.f. Required s.f. cont.
Area Provided Plus Storage Vo # of Pits	3.14158 (Pi 3.14158 lume:	x x x x Inside Radius	16 radius 8 x Inside Radius	x x Additional Pit x Inside height)	5 radius 8 Proposed	"=" TOTAL x # of Pits "=" reater than by (% Voids	251 201 452 3 1,357 1107	s.f. per pit s.f. s.f. Required s.f.
Area Provided Plus Storage Vo	3.14158 (Pi 3.14158	x x x	16 radius 8	x x x Additional Pit x Inside	5 radius 8 Proposed Which is gr	"=" TOTAL x # of Pits "=" eater than by	251 201 452 3 1,357 1107 250	s.f. per pit s.f. s.f. Required s.f. cont.
Area Provided Plus Storage Vo # of Pits	3.14158 (Pi 3.14158 lume:	x x x x Inside Radius	16 radius 8 x Inside Radius	x x Additional Pit x Inside height)	5 radius 8 Proposed Which is gr	"=" TOTAL x # of Pits "=" reater than by (% Voids	251 201 452 3 1,357 1107 250	s.f. per pit s.f. s.f. Required s.f. cont.
Area Provided Plus Storage Vo # of Pits 3	3.14158 (Pi 3.14158 lume:	x x x x Inside Radius 3.67	16 radius 8 x Inside Radius	x x Additional Pit x Inside height)	5 radius 8 Proposed Which is gr	"=" TOTAL x # of Pits "=" reater than by (% Voids	251 201 452 3 1,357 1107 250	s.f. per pit s.f. s.f. Required s.f. cont.
Area Provided Plus Storage Vo # of Pits 3	3.14158 (Pi 3.14158 dume: ((Pi 3.14159	x x x x Inside Radius 3.67	16 radius 8 x Inside Radius 3.67	x x Additional Pit x Inside height)	5 radius 8 Proposed Which is gr	"=" TOTAL x # of Pits "=" eater than by (% Voids 30%	251 201 452 3 1,357 1107 250	s.f. per pit s.f. s.f. Required s.f. cont. below

STORMWATER RUNOFF DRAINAGE CALCULATIONS THE STONEHORSE PROJECT- RTE 28 SOUTH HARWICH

Proposed Conditions: Runoff for 25-Year Storm Peak Flow
Using NOAA Atlas 14, Vol 10. Ver 2 for 25 yr., 15 min => 1.13 inch/15 min => (1.13 x 4) = 4.52 in/hr.

Catab ba-								
catch basi	ins Contrib u	ition Area -	· 1 - PREVIO	USLY PROPOS	SED			
				Previously				
				Proposed			/	half
				s.f.	C			
	Paved	Driveway a	nd Parking:	7,255	0.95	5		
		Walks and	Hardscape:	698	0.95)		
			ass Parking:	3,175	0.7	7	•	
			andscaping:	6,022	0.5	,		
Peak Rund	off:		, 0	·		•		
	0.95	x	7,953	"="	7,555	,		
plus		X	3,175	"="	2,223			•
plus	0.5	X	6,022	H_H	3,011			
p.33		^	v ,	TOTAL	12,789			•
Total	12,789	x	4.52	inch/hour	х	1 ft/12 in	11 <u></u> 11	4,817 c.f./hr.
10443	,,,	^	7.24	monymour	^	. * 19 ** III	_	7,017 City (III.
			1 hr./60					
4 817	c.f./hr.	x	min	n=11	80.3	c.f./min		
4,01/	C.1./ ## .	^			80.3	Cayman		
Q gal/min	H=11	80.3	c.f./min	x	7.48	gal/c.f.	"="	601 gal/min
								
Required t	Leaching				1 s.f./0.7			
Area =		601	gal/min	x	gal/min	"="	858	s.f. Required
	2 Leach Pit	s, 8' diam,	5' Deep witl	n 4' Stone (to	tal diamet	ter = 16'):		
	: 2 Leach Pit	s, 8' diam,	5' Deep witl Total	n 4' Stone (to	tal diamet	ter = 16'):	Surface	
• ••	: 2 Leach Pit (Pi	:s, 8' diam, X		n 4' Stone (to ×	tal diame t Height	ter = 16'): "="	Surface Area	
Leaching Area			Total					
Leaching Area	(Pi		Total Diameter	х			Area	
Leaching	(Pi 3.14158	x	Total Diameter	x	Height 5	n _m n		
Leaching Area Provided :	(Pi 3.14158 (Pi	x x x	Total Diameter 16 radius	x x x	Height 5 radius	n _m n	Area 251	
Leaching Area	(Pi 3.14158	x	Total Diameter	x	Height 5	n=n	Area 251 201	
Leaching Area Provided :	(Pi 3.14158 (Pi	x x x	Total Diameter 16 radius	x x x	Height 5 radius	"=" "=" TOTAL	Area 251 201 452	s.f. per pit
Leaching Area Provided :	(Pi 3.14158 (Pi	x x x	Total Diameter 16 radius	x x x	Height 5 radius	"=" "=" TOTAL x # of Pits	251 201 452 2	s.f. per pit
Leaching Area Provided : Plus	(Pi 3.14158 (Pi 3.14158	x x x	Total Diameter 16 radius	x x x	Height 5 radius 8	"=" "=" TOTAL x # of Pits "="	251 201 452 2	s.f. per pit
Leaching Area Provided :	(Pi 3.14158 (Pi 3.14158	x x x	Total Diameter 16 radius 8	x x x	Height 5 radius 8	"=" "=" TOTAL x # of Pits	251 201 452 2	s.f. per pit s.f. s.f. Required
Leaching Area Provided : Plus Storage Vo	(Pi 3.14158 (Pi 3.14158 Olume:	x x x x	Total Diameter 16 radius 8	x x x x	Height 5 radius 8 Which is gr	"=" "=" TOTAL x # of Pits "=" reater than	251 201 452 905 858	s.f. per pit s.f. s.f. Required cont.
Leaching Area Provided : Plus Storage Vo	(Pi 3.14158 (Pi 3.14158 Dlume:	x x x x x x Inside Radius	Total Diameter 16 radius 8 x Inside Radius	x x x x x x tnside height)	Height 5 radius 8	"=" "=" TOTAL x # of Pits "=" reater than (% Voids	251 201 452 2	s.f. per pit s.f. s.f. Required
Leaching Area Provided : Plus Storage Vo	(Pi 3.14158 (Pi 3.14158 Olume:	x x x x	Total Diameter 16 radius 8	x x x x	Height 5 radius 8 Which is gr	"=" "=" TOTAL x # of Pits "=" reater than	251 201 452 905 858	s.f. per pit s.f. s.f. Required cont.
Leaching Area Provided : Plus Storage Vo # of Pits 2	(Pi 3.14158 (Pi 3.14158 Dlume:	x x x x x Inside Radius 3.67	Total Diameter 16 radius 8 x Inside Radius	x x x x x x tnside height)	Height 5 radius 8 Which is gr	"=" "=" TOTAL x # of Pits "=" reater than (% Voids	251 201 452 905 858	s.f. per pit s.f. s.f. Required cont.
Leaching Area Provided : Plus Storage Vo # of Pits 2	(Pi 3.14158 (Pi 3.14158 Diume: ((Pi 3.14159	x x x x x Inside Radius 3.67	Total Diameter 16 radius 8 x Inside Radius 3.67	x x x x x x tnside height)	Height 5 radius 8 Which is gr	"=" TOTAL x # of Pits "=" reater than (% Voids 30%	251 201 452 905 858	s.f. per pit s.f. s.f. Required cont. below



TOWN PLANNER • 732 Main Street, Harwich, MA 02645

508-430-7511 fax: 508-430-4703



AGENDA ITEM # II.B

To: Planning Board

From: Charleen Greenhalgh, Town Planner

Date: January 19, 2021

Re: Staff Report – Site Plan Review & Use Special Permits

PB2020-34 Cool Change LLC, Allen Harbor Marine, applicant & owner, c/o Rob O'Neill, representative, seeks a Site Plan Review and Use Special Permit pursuant to §§325-55; 325-13, Use Table, paragraph IV.19; and 325-51 to construct a 4,102 square foot commercial building for a marine use (boat maintenance and repair) and associated parking for property located at 282 Route 28, Map 12, Parcel G2-1 in the CH-1 zoning district.

A public hearing on this matter is scheduled for a virtual meeting to be held on Tuesday, January 26, 2021 no earlier than 6:30pm. Abutters were notified via certified mail on January 6, 2021.

Description

The applicant seeks approval for a Site Plan Review Special Permit and a Use Special Permit for a marine use. The property is currently undeveloped; however the restaurant use to the west has a parking easement on this parcel. The application was filed with the Town Clerk on December 22, 2020. Revised plans were submitted on January 13, 2021 and include the following:

- 1. Form A Special Permits & Site Plan Review
- 2. Site Plan Review Narrative, dated December 18, 2020 by Stephen S. Morrell, AIA
- 3. Municipal Lien Certificate
- 4. AMENDED project narrative dated October 22, 2020 by Benjamin E. Zehnder
- 5. Packet of previous Board of Appeals decision and other correspondence
- 6. Set of Plans for Allen Harbor Marine Bldg Project, prepared by GenCon and Green Seal Environmental, Inc., Stuart D. Clark, P.E. dated December 17, 2020, with a latest revision date of 1/8/21:
 - a) Sheet G-00, General Notes, Not To Scale (NTS)
 - b) Sheet C-00, Existing Conditions, scale 1" = 20'
 - c) Sheet C-01, Site Plan, scale 1'' = 20'
 - d) Sheet C-02, Utilities Plan, scale 1" = 20'
 - e) Sheet C-03, On-Site Sanitary Disposal System, scale As Noted
 - f) Sheet C-04, Erosions Control Plan, scale 1" = 20'
 - g) Sheet C-05, Watershed Areas, scale 1" = 30'
 - h) Sheet C-06, Traffic Circulation C-06 Plan, scale 1" = 20'
 - i) Sheet D-00, Details, scale An Noted
- 7. Set of Building Plans for Allen Harbor Marine Bldg Project, prepared by GenCon:
 - a) Sheet A1.1, Floor Plan, Sections & Elevations, scale As Noted, dated 1/11/21.
 - b) Sheet A1.2, Renderings, scale As Noted, dated 12/17/21.

- 8. Response Letter, by Rob O'Neill, Project Manager (GenServ)
- 9. Site Plan Review Application Narrative, dated November 6, 2020 by Stephen S. Morrell, AIA
- 10. Waiver Request, by Rob O'Neill, Project Manager (GenServ)
- 11. Exterior Light Fixtures, by Rob O'Neill, Project Manager (GenServ) nine (9) cut sheets are included.

MGL Reference and Planning Board Jurisdiction

Pursuant to MGL c.40 A, §9 the Planning Board must, within 65 days of submission of application for a special permit hold a public hearing. The decision of the Planning Board shall take place within 90 days following the close of the public hearing. Further, a special permit issued shall require a two-thirds vote of the Board.

The Planning Board has jurisdiction to review this application pursuant to the §325-13 and §325-51 for the Use Special Permit and §325-55 for the Site Plan Review Special Permit.

Waivers

The following waivers have been request. The explanations from Rob O'Neill, Project Manager are shown in *italics*.

- 1. Landscaping and planting The adjacent Tyler Lane subdivision includes landscaping and plantings. The current site for Allen Harbor and proposed building does not allow for planting/landscape areas.
- 2. Curbing and Wheel stops these would impede on the maneuverability of boats coming in and out of the site.

Comments from other Boards, Departments, Committees

Health: A fully compliant septic system must be approved prior to any building permit issuance. **Fire, Police, Water, DPW/Highway:** No issues, comments or concerns.

Conservation: Any work in the FEMA Flood Zone requires Conservation Commission approval, as this is Land Subject to Coastal Storm Flowage.

Engineering: The Town Engineer reviewed the plans with the Town Planner; comments are noted below. Additionally, he will be reviewing in detail the Stormwater Report and provide comments as needed.

Planning Staff Comments

- 1. As noted, the Town Engineer and Town Planner met to review the plans and application as submitted on January 5, 2021. At that time we sent an email to Rob O'Neill, Project Manager outlining our questions and comments. Revised plans and other information was provided on January 13, 2021. Most of our comments/questions had been addressed; however, we do provide the following additional comments:
 - a. The westerly parking two (2) parking spaces nearest the proposed building cannot be used during the hours of operation of the Marine use, as these would block access to the three (3) parking spaces at the rear of the building. This could be accomplished with signage and can be made a condition of approval.
 - b. We still encourage one central curb cut. Because this is a change of use this would need to go to MassDOT for a curb cut permit. This can be made a condition of approval.

- c. Dimensions for the parking spaces are not provided, including the HP space. If the application states what the various dimension would be, this too can be included in the conditions.
- d. Curbing is encouraged along the easterly parking area. We understand the desire to minimize curbing due to the boat and trailer access; however curbing along the easterly side should not impede access. This can be made a condition of approval.
- e. The applicant has request a waiver of the landscaping and planting. The Town Engineer and Interim Planner believe that those areas that will not be paved must be "green" and therefore some indication of loaming and seeding, and/or low growing shrubs should be provided.
- 2. The Zoning Board of Appeals approved variances for setbacks for the building and parking pursuant to Case #2020-41.
- 3. The property contains a use easement for parking for the restaurant located to the west of the property (Villa Roma). The parking needs for each use will be offset by the nature of of each business and the hours of operation.
- 4. The requested waivers would not be required provided there are conditions imposed including the submittal of a landscaping plan.
- 5. At this time, all other requirements of the zoning bylaws appear to have been met.
- 6. Reasonable conditions are recommended including:
 - a. A fully compliant septic system must be approved prior to any building permit issuance.
 - b. Any work in the FEMA Flood Zone requires Conservation Commission approval, as this is Land Subject to Coastal Storm Flowage.
 - c. The two parking spaces on the westerly side of the lot shall be restricted to evening use only. Signage shall be installed to indicate said restriction.
 - d. A Cape Cod Berm shall be installed along the easterly edge of the parking area, and shall be shown on the As-Built Plan.
 - e. A Massachusetts Department of Transportation ("MassDOT") may be required as this is a change of use. Any changes to the entrance to the site as a result of this review shall not require further review from the Planning Board. A copy of the MassDOT curb cut permit shall be filed with the Planning Office.
 - f. The regular parking spaces shall be 9' wide by 20' in length and the parking space for disabled persons shall be 8' wide with a 5' hatched aisle adjacent by 20' in length.
 - g. All signage shall comply with the Sign Code and Building Department Requirements.
 - h. All lighting shall comply with the Lighting Code.
 - i. Prior to the issuance of a building permit, a landscape plan shall be submitted to the Planning Office.
 - j. Any changes to the approved site may require additional review and approvals from the Planning Board.
 - k. This decision shall be recorded at the Barnstable County Registry of Deeds.
 - 1. Conformance with all review procedure requirements outlined pursuant to the Code of the Town of Harwich §400-18.G Inspection, certificate of completion and as-built plan shall be met.

VOTES

Continuance

If the Board will require additional information or wants to take the matter under advisement the following motion is recommended:

Move to continue the hearing for **PB2020-34 Cool Change LLC**, to no earlier than 6:30 pm on _____ (Next Meeting Dates: *Feb. 9, Feb. 23, Mar. 9*) for the following reason(s): *Need to provide reasons for the continuance...additional information...taking it under consideration....*

I. Vote to Close the Public Hearing

II. Vote to Adopt Proposed Findings:

To adopt the following finding of fact (the Board may wish to add or change findings):

- 1. The property is located with the CH-1 zoning district.
- 2. Subject property is burden by a parking easement by the adjacent parcel to the west.
- 3. The Marine Use is allowable with a Use Special Permit.
- 4. Dimensional variances for the building and parking setbacks were approved by the Harwich Zoning Board of Appeals pursuant to Case #2020-41.
- 5. Appropriate and adequate parking shall be provided on the subject site.
- 6. The use as developed will not adversely affect the neighborhood.
- 7. The specific site is an appropriate location for such a use.
- 8. There will be no nuisance or serious hazard to vehicles or pedestrians.
- 9. Adequate and appropriate facilities will be provided for the proper operation of the proposed use, including appropriate sewage treatment.

<u>Vote on Use Special Permit</u> (*Please Note*: An affirmative vote by at least five Planning Board members is required.)

- 1. To **approve with conditions** case PB2020-34 Cool Change LLC for a Use Special Permit pursuant to §325-13, Use Table, paragraph IV.19 and §325-51 for a marine use (boat maintenance and repair) for property located at 282 Route 28, Map 12, Parcel G2-1 in the CH-1 zoning district, based on the aforementioned findings of fact and the fact that the application meets the necessary requirements and criteria for approval pursuant to the Code of Town of Harwich. The following condition is imposed: (*Note: need to determine and outline the conditions.*)
 - 1.) No outside storage of boats or other materials shall be permitted.
- 2. To **deny** case number case number PB2020-34 Cool Change LLC for a Use Special Permit pursuant to §325-13, Use Table, paragraph IV.19 and §325-51 for a marine use (boat maintenance and repair) for property located at 282 Route 28, Map 12, Parcel G2-1 in the CH-1 zoning district, based on the fact that the application does not meet the necessary requirements and criteria for approval pursuant to the Code of Town of Harwich, specifically...(*Note: need to list the specific requirements that have not been satisfied.*)

<u>Vote on Site Plan Review Special Permit:</u> (*Please Note*: An affirmative vote by at least five Planning Board members is required.)

- I. To **approve with** *conditions* case number PB2020-34 Cool Change LLC for a Site Plan Review pursuant to §§325-55 to construct a 4,102 square foot commercial building for a marine use (boat maintenance and repair) and associated parking at property located at 282 Route 28, Map 12, Parcel G2-1 in the CH-1 zoning district. The decision is based on the aforementioned findings of fact, the fact that the application meets the necessary requirements and criteria for approval pursuant to the Code of Town of Harwich and the fact that the Marine Use is permitted by Special Permit in the zoning district. The following conditions are imposed:
 - 1. A fully compliant septic system must be approved prior to any building permit issuance.
 - 2. Any work in the FEMA Flood Zone requires Conservation Commission approval, as this is Land Subject to Coastal Storm Flowage.
 - 3. No outside storage of boats or other materials shall be permitted.
 - 4. The two parking spaces on the westerly side of the lot shall be restricted to evening use only. Signage shall be installed to indicate said restriction.
 - 5. A Cape Cod Berm shall be installed along the easterly edge of the parking area, and shall be shown on the As-Built Plan.
 - 6. A Massachusetts Department of Transportation ("MassDOT") may be required as this is a change of use. Any changes to the entrance to the site as a result of this review shall not require further review from the Planning Board. A copy of the MassDOT curb cut permit shall be filed with the Planning Office.
 - 7. The regular parking spaces shall be 9' wide by 20' in length and the parking space for disabled persons shall be 8' wide with a 5' hatched aisle adjacent by 20' in length.
 - 8. All signage shall comply with the Sign Code and Building Department Requirements.
 - 9. All lighting shall comply with the Lighting Code.
 - 10. Prior to the issuance of a building permit, a landscape plan shall be submitted to the Planning Office.
 - 11. Any changes to the approved site may require additional review and approvals from the Planning Board.
 - 12. This decision shall be recorded at the Barnstable Registry of Deeds.
 - 13. Conformance with all review procedure requirements outlined pursuant to §400-18.G Inspection, certificate of completion and as-built plan, of the Code of the Town of Harwich shall be met.
- II. To *deny* case number PB2020-34 Cool Change LLC for a Site Plan Review Special Permit pursuant to §§325-55 to construct a 4,102 square foot commercial building for a marine use (boat maintenance and repair) and associated parking at property located at 282 Route 28, Map 12, Parcel G2-1 in the CH-1 zoning district, based on the fact that the Use Special Permit was denied and therefore the Site Plan Review Special Permit cannot be granted.

GENCON

November 6, 2020

Harwich Planning Department 732 Main Street Harwich, MA 02645

Re: Site Plan Review Application Narrative

Proposed Boat Maintenance and Repair Building 282 MA Route 28 Harwich, MA

The proposed use for the lot is for boat maintenance and repair. The owner is proposing a structure to house these activities in lieu of having the boats and accompanying work out in the open. It is believed this structure would benefit the abutters both aesthetically and via a major reduction of the noise associated with the work on the boats. There is a parking easement that has been granted to the adjacent restaurant which restricts the buildable area of the lot. This easement grants access to the 14 spaces in front of the building. As the operating hours of the two business do not overlap, these spaces will be used by the restaurant during their business hours and by the owner at all other times.

The proposed building will 60'x78'. It will be 25' above average grade at its highest point. Site work will include but not be limited to minor grading, 3 new parking spaces, a new septic system, a tight tank, and a rain garden.

Very truly yours,

Stephen S. Morrell, AIA

Lead Architect



Harwich Planning Department Ms. Charleen Greenlagh 732 Main Street Harwich, MA

Attn: Ms. Greenlagh

RE: PB-2002-34 Response Letter

Ms. Greenlagh,

On behalf of Allen Harbor Marine, (Cool Change LLC) please see the below responses per your email on 1/6/2021. Feel free to call me with any questions.

- 1) Please see the attached waivers.
- 2) A municipal lien certificate has been requested by Allen Harbor from the Treasures Office. We anticipate having this in hand by the planning board meeting on 1/26/2021.
- 3) Added to plans; C-00. See attached revised Civil drawings dated 1-8-2021.
- 4) Added to plans; C-01. See attached revised Civil drawings 1-8-2021.
- 5) Added to plans; C-01. See attached revised Civil drawings dated 1-8-2021.
- 6) Legend is included on sheet G-00. See attached revised Civil drawings dated 1-8-2021.
- 7) This has been changed. See attached revised Civil drawings dated 1-8-2021.
- 8) Added to plans; C-01. See attached revised Civil drawings dated 1-8-2021.
- 9) See new sheet, C-06. Included in revised Civil drawings dated 1-8-2021.
- 10) Revised to minimize cutbacks. See attached revised Civil drawings dated 1-8-2021.
- 11) HP parking space has been relocated. See attached revised Civil drawings dated 1-8-2021.
- 12) Please see the attached lighting cutsheets.
- 13) No landscaping has been planned; see attached waiver request.

Thank you,

Rob O'Neill

Project Manager



Harwich Planning Department Ms. Charleen Greenlagh 732 Main Street Harwich, MA

Attn: Ms. Greenlagh

RE: PB-2002-34 Waiver Request

Ms. Greenlagh,

Please see the below waivers requested for the Allen Harbor Marine project at 282 Rt 28.

- 1. We are requesting a waiver on landscaping and plantings for this project. The adjacent Tyler Lane subdivision includes landscaping and plantings. The current site for Allen Harbor and proposed building does not allow for planting/landscape areas.
- 2. We are requesting a waiver on curbing and wheel stops due to this will impede on the maneuverability of boats coming in and out of the site.

Thank you,

Ronall

Rob O'Neill

Project Manager

GENERAL CONSTRUCTION NOTES

- ALL SITE PREPARATION NECESSARY TO COMPLETE THIS PROJECT ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL COORDINATE ALL NECESSARY POLICE DETAILS WITH THE LOCAL POLICE DEPARTMENT.
- ALL CONSTRUCTION AND CONTRACTOR VEHICLES ARE TO BE PARKED WITHIN THE SITE PROPERTY. PARKING OF ANY CONSTRUCTION VEHICLE OUTSIDE OF THE SITE LIMITS IS PROHIBITED.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL REQUIRED CONSTRUCTION PERMITS. ALL FEES INCLUDING POLICE DETAILS AND POSTING OF BONDS ARE TO BE PAID BY THE CONTRACTOR, AND COORDINATED WITH THE OWNER AND THE ENGINEER.
- ALL EXISTING CONDITIONS SHOWN SHALL BE CONSIDERED APPROXIMATE AND ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED CONDITIONS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO CONDUCTING ANY
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF PREVIOUS OWNERS, VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT GUARANTEED AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES, ANY GOVERNING PERMITTING AUTHORITIES, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE CONFLICTS BETWEEN THE PROPOSED UTILITIES AND FIELD-LOCATED UTILITIES AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED, INCOMPLETELY OR INACCURATELY SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCURATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED AND EXISTING UTILITIES FOUND DURING CONSTRUCTION FOR THE PREPARATION OF THE AS-BUILT PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXISTING UTILITIES IN WORKING ORDER AND FREE FROM DAMAGE DURING THE ENTIRE DURATION OF THE PROJECT. ALL COSTS RELATED TO THE REPAIR OF UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL UTILIZE ALL PRECAUTIONS AND MEASURES TO ENSURE THE SAFETY OF THE PUBLIC, ALL PERSONAL AND PROPERTY DURING CONSTRUCTION IN ACCORDANCE WITH OSHA STANDARDS, INCLUDING BARRICADES, SAFETY LIGHTING, CONES, POLICE DETAIL AND/OR FLAGMEN AS DETERMINED NECESSARY BY THE ENGINEER AND/OR OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF POLICE DETAIL AND FOR COORDINATING WITH THE LOCAL OR STATE POLICE DEPARTMENT FOR ALL REQUIRED POLICE DETAIL.
- ALL TRENCHING WORK WITHIN A PUBLIC OR PRIVATE ROADWAY SHALL BE COORDINATED WITH THE OWNER AND/OR PROPER LOCAL & STATE AGENCIES. TRENCH SAFETY AND RELATED PERMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS WORK MAY BE REQUIRED TO TAKE PLACE OUTSIDE OF NORMAL HOURS OF OPERATION FOR THE FACILITY.
- 10. ALL TRENCH WORK WITHIN EXISTING PAVEMENT SHALL BE NEATLY SAWCUT PER THE APPLICABLE DETAILS. TRENCH BACKFILL SHALL BE PLACED AND COMPACTED IN 8-INCH LIFTS OR AS OTHERWISE INDICATED ON PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY SETTLING DUE TO INADEQUATE COMPACTION AS DETERMINED BY THE ENGINEER WITHIN THE WARRANTY PERIOD.
- THE CONTRACTOR SHALL MAKE ALL CONNECTION ARRANGEMENTS WITH UTILITY COMPANIES, AS NECESSARY INCLUDING NOTIFICATIONS TO THE CITY AND UTILITIES PRIOR TO ANY WORK.
- 12. ALL IMPORTED MATERIAL SHALL BE CLEAN AND FREE OF ANY HAZARDOUS WASTE OR OTHER CHEMICAL CONTAMINATION. NO MATERIAL WILL BE ACCEPTED FROM AN EXISTING OR FORMER 21E SITE AS DEFINED BY THE MASSACHUSETTS CONTINGENCY PLAN 310 CMR 40.0000.
- 13. SITE LAYOUT SURVEY REQUIRED FOR CONSTRUCTION WILL BE PROVIDED BY THE CONTRACTOR AND SHALL BE CONDUCTED BY A MASSACHUSETTS' REGISTERED PROFESSIONAL LAND SURVEYOR. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE SURVEYOR FOR ALL SITE SURVEY WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN AS-BUILT PLAN OF THE SITE CONDUCTED BY A REGISTERED PROFESSIONAL LAND SURVEYOR AND APPROVED BY THE ENGINEER. AS-BUILTS ARE REQUIRED TO OBTAIN MASSDEP AUTHORIZATION TO
- 14. $\,$ THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL POINTS DURING CONSTRUCTION INCLUDING BENCHMARK LOCATIONS AND ELEVATIONS AT CRITICAL AREAS. THE LOCATION OF ALL CONTROL POINTS AND BENCHMARKS SHALL BE COORDINATED WITH THE ENGINEER.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL GRADE STAKES AND MONUMENTATION. GRADE STAKES SHALL REMAIN IN PLACE UNTIL A FINAL INSPECTION OF THE SITE HAS BEEN COMPLETED BY THE ENGINEER. ANY RE-STAKING OF PREVIOUSLY SURVEYED SITE FEATURES SHALL BE THE RESPONSIBILITY (INCLUDING COST) OF THE
- 16. UNLESS OTHERWISE SPECIFIED ON THE PLANS AND DETAILS/SPECIFICATIONS, ALL SITE CONSTRUCTION MATERIALS AND METHODOLOGIES ARE TO CONFORM TO THE MOST RECENT VERSION OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASSACHUSETTS HIGHWAY DEPARTMENT) STANDARD SPECIFICATIONS (THE MASSACHUSETTS HIGHWAY DEPARTMENT 1988 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, THE 2002 SUPPLEMENTAL SPECIFICATIONS, AND THE 2005 STANDARD SPECIAL PROVISIONS).
- 17. CONSTRUCTION AND/OR DEMOLITION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS REGARDING NOISE, VIBRATION, DUST, SEDIMENTATION CONTAINMENT, HAZARDOUS WASTES, AND
- 18. SOLID WASTES AND/OR CONSTRUCTION OR DEMOLITION DEBRIS SHALL BE COLLECTED AND STORED IN A SECURED DUMPSTER. THE DUMPSTER SHALL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS.
- 19. THE CONTRACTOR SHALL RESTORE ALL SITE SURFACES TO THEIR ORIGINAL CONDITION OR BETTER AFTER CONSTRUCTION IS COMPLETE. AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE LEFT NATURAL. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO SHRUBS, TREES, OTHER LANDSCAPING AND/OR NATURAL FEATURES. IF THE PLANS FAIL TO IDENTIFY ALL LANDSCAPE FEATURES, EXISTING CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK.
- 20. UNPAVED AREAS DISTURBED BY THE WORK SHALL HAVE A MINIMUM OF 4-INCHES OF LOAM (OR MORE AS SHOWN ON PLAN DETAILS) AND HYDROSEEDED AS SHOWN ON THE PLAN AND/OR DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ANY LOAMED AND SEEDED AREAS UNTIL GROWTH IS ESTABLISHED AND APPROVED BY THE ENGINEER AND/OR OWNER.
- 21. ALL PROPOSED STRUCTURES AND COMPONENTS SHALL BE DESIGNED BY THEIR MANUFACTURERS TO WITHSTAND AASHTO H-20 LOADING. PRECAST CONCRETE SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 4,000 PSI UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
- 22. THE CONTRACTOR SHALL PROVIDE A UNIT PRICE COST IN CUBIC YARD MEASURE FOR LEDGE AND/OR BOULDER REMOVAL. LEDGE AND/OR BOULDERS LESS THAN 1 CUBIC YARD IN SIZE BASED ON THE AVERAGE DIMENSIONS WILL NOT BE CONSIDERED PAYABLE ROCK. UNIT PRICE SHALL BE GIVEN FOR BOTH ON AND OFF SITE DISPOSAL. COST OF REPLACEMENT MATERIAL SHALL BE INCLUDED IF ADDITIONAL FILL MATERIAL IS REQUIRED.
- 23. DEVIATION OR ALTERATION OF THE PROPOSED WORK IS TO BE VERIFIED BY THE ENGINEER AND OWNER PRIOR TO CONDUCTING THE WORK.
- 24. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK SITE AND PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS AND WIND BLOWN OR WATER CARRIED DEBRIS SHALL BE COLLECTED AND REMOVED FROM THE SITE.

GENERAL GRADING AND DRAINAGE NOTES

ENGINEER OR NOTED ON THE PLANS.

- 1. ALL CUT AND FILL SLOPES SHALL BE 3H:1V OR FLATTER UNLESS OTHERWISE NOTED ON THE PLANS.
- 2. CONTRACTOR SHALL ADJUST AND/OR NEATLY SAWCUT EXISTING PAVEMENT AS NECESSARY TO ENSURE A SMOOTH TRANSITION AND CONTINUOUS GRADE. A CONSTRUCTION PAVEMENT TRANSITION DETAIL IS PROVIDED ON THE PLAN SET
- 3. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS UNLESS OTHERWISE DIRECTED BY
- 4. PROPOSED ELEVATIONS ARE SHOWN TO FINISHED PAVEMENT OR GRADE UNLESS OTHERWISE SPECIFIED.
- 5. PARKING AREAS AND TRAVEL LANES ARE NOT TO BE PAVED UNTIL THE ENTIRE PROPOSED DRAINAGE SYSTEM HAS BEEN INSTALLED, COMPACTED PROPERLY, AND ALL PIPE CONNECTIONS COMPLETE.
- 6. DRAINAGE PIPING SHALL BE DOUBLE WALLED CORRUGATED PLASTIC PIPE, ADS-N12 OR EQUAL UNLESS OTHERWISE NOTED ON THE PLANS.
- 7. BACKFILL ADJACENT TO PIPES AND STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT AS SPECIFIED. BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES IN THICKNESS AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN +/- 2% OF OPTIMUM. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99 OR ASTM D698/1557 AND ASTM D2434 FOR IN PLACE TESTING. TESTING OF BACKFILL MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE INSPECTED BY THE ENGINEER.
- 8. ALL DRAINAGE STRUCTURES AND PIPES MUST BE PROPERLY CONNECTED TO THE DRAINAGE SYSTEM PRIOR TO THE INSTALLATION OF ANY PAVEMENT. THIS INCLUDES THE STABILIZATION OF ALL DISTURBED AREAS CONTRIBUTING TO THE DRAINAGE SYSTEMS AND ANY STORMWATER DRAINAGE BASIN FLOORS AND SIDE SLOPES.
- 9. AT SUBSTANTIAL COMPLETION, ANY LOW LYING AREAS (NON-STORMWATER FEATURES) FOUND TO CREATE PONDING SHALL HAVE LOAM OR SURFACE TREATMENT REMOVED AND THE SUBGRADE MATERIAL SHALL BE REPAIRED AND REGRADED WITH GRANULAR NATIVE BACKFILL MATERIAL AFTER BACKFILL, LOAM SHALL BE REPLACED AND RESEEDED. NO TOP DRESSING SHALL BE ALLOWED. REGRADED AREAS SHALL BE HOSE TESTED TO ENSURE POSITIVE DRAINAGE AND THE PONDING PROBLEM TO BE ALLEVIATED.

STORMWATER FACILITY OPERATION & MAINTENANCE:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL AND STORMWATER MANAGEMENT FACILITIES UNTIL THE PROJECT IS DEEMED COMPLETE BY THE OWNER AND ENGINEER.
- 2. THE CONTRACTOR SHALL INSPECT AND CLEAR ALL INLETS, MANHOLES, DRAINAGE BASINS, AND OTHER STRUCTURES OF SEDIMENT AND DEBRIS PRIOR TO THE OWNER'S ACCEPTANCE.
- 3. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL SEDIMENT AND DEBRIS IN A PRE-APPROVED LOCATION AND IN ACCORDANCE WITH APPLICABLE
- 4. IF REQUIRED, THE CONTRACTOR SHALL REFER TO THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR INFORMATION REGARDING STORMWATER FACILITY OPERATION AND MAINTENANCE REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN A WORKING COPY OF THE SWPPP ON SITE AT ALL TIMES.
- 5. THE CONTRACTOR SHALL INSPECT ALL STORMWATER FACILITIES AFTER EVERY MAJOR RAINFALL EVENT FOR THE ENTIRE DURATION OF THE CONSTRUCTION PROJECT AND THE FIRST 3-MONTHS AFTER COMPLETION TO MONITOR SYSTEM OPERATION.

NEEDED TO MAINTAIN ITS EFFECTIVENESS AND RECONSTRUCTED AS NECESSARY DURING SEPARATE PHASES OF THE PROJECT.

PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY THE ENGINEER.

THE CONTRACTOR, IN CONSULTATION WITH THE ENGINEER, TO SIZE AND CONSTRUCT THESE BASINS IN APPROPRIATE LOCATIONS.

14. ACCUMULATED SEDIMENT SHALL BE COLLECTED AND DISPOSED OF IN A PRE-APPROVED LOCATION BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

BE PROMPTLY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF. ALL TRUCKS AND CONTAINERS LEAVING THE SITE SHALL BE COVERED.

22. SLOPES EQUAL OR GREATER THAN 2H:1V SHALL BE HYDROSEEDED THEN STABILIZED WITH EROSION CONTROL FABRIC UNLESS NOTED OTHERWISE ON THE PLANS.

OR DEBRIS COLLECTED WITHIN THESE FACILITIES FROM THE PROJECT WORK SHALL BE REMOVED PRIOR TO THE OWNER'S ACCEPTANCE.

SEDIMENT OR POTENTIAL POLLUTANTS WHICH MAY ACCUMULATE DURING CONSTRUCTION ACTIVITIES.

DEVICES ARE PROPERLY MAINTAINED AND REPAIRED IN A TIMELY AND RESPONSIBLE MANNER.

CONSTRUCTED WITHIN ANY RESOURCE AREAS OR BUFFER ZONES.

SHALL BE USED ON THE ACCESS ROADWAYS.

1. THE SITE CONSTRUCTION FOREMAN SHALL BE RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL SEDIMENTATION AND EROSION CONTROL BARRIERS AND SHALL IMPLEMENT ALL

2. THE CONTRACTOR SHALL INSTALL ALL SEDIMENTATION AND EROSION CONTROL BARRIERS AS SHOWN ON THE PLANS AND AS DETERMINED NECESSARY IN THE FIELD BY THE ENGINEER BEFORE ANY

CONSTRUCTION ACTIVITIES ARE TO BEGIN. THESE MEASURES SHALL BE INSPECTED, MAINTAINED AND REPLACED AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT.

PERIMETER EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL REPRESENT THE LIMIT OF WORK AND ALL WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR

5. A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AS SHOWN IN THE DETAILS TO SHED DIRT FROM CONSTRUCTION VEHICLE TIRES. THE CRUSHED STONE PAD WILL BE REPLACED/CLEANED AS

GRUBBED. THE REQUIRED SEDIMENTATION CONTROL FACILITIES MUST BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTHMOVING OR OTHER CONSTRUCTION ACTIVITIES WHICH

CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR ENSURING THE NECESSARY SEDIMENTATION AND EROSION CONTROL BARRIERS ARE INSTALLED AND FUNCTIONING PROPERLY TO

CONSTRUCTION TO ENSURE THAT THE EROSION AND SEDIMENTATION CONTROL MEASURES ARE OPERATING/FUNCTIONING PROPERLY. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY

WILL LEAVE LARGE DISTURBED AREAS UNSTABILIZED. IF INCLEMENT WEATHER IS FORECAST, THE CONTRACTOR SHALL USE THEIR BEST PROFESSIONAL JUDGEMENT WHEN SCHEDULING

8. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON WEEKLY BASIS AND AFTER EACH RAINFALL EVENT OF 0.25 INCH OR GREATER DURING

9. SOIL STOCKPILES LEFT OVERNIGHT SHALL BE SURROUNDED ON THEIR PERIMETERS WITH SILT SOCK, SILT FENCE, STRAW BALES, OR A COMBINATION OF SILT FENCE WITH STRAW BALES.

10. DISTURBED AREAS AND SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS DURING THE INACTIVE WINTER SEASON. THE CONTRACTOR SHOULD

PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS

TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY AREAS HAVING A SLOPE GREATER THAN 4H:1V SHALL BE REINFORCED WITH EROSION BLANKETS OR APPROVED EQUAL UNTIL THE SITE IS

11. THE CONTRACTOR SHALL INSTALL A SILT SACK OR APPROVED EQUIVALENT IN EACH EXISTING CATCH BASIN RECEIVING RUNOFF FROM THE SITE. UPON THE INSTALLATION OF ANY NEW CATCH BASIN,

THE CONTRACTOR SHALL INSTALL A SILT SACK OR APPROVED EQUIVALENT. THESE ARE TO BE INSPECTED AFTER EACH SIGNIFICANT STORM EVENT AND EMPTIED AS NEEDED DURING THE ENTIRE

12. SMALL SEDIMENTATION BASINS MAY BE CONSTRUCTED ON AN AS-NEEDED BASIS DURING CONSTRUCTION TO AID IN THE CAPTURE OF SITE RUNOFF AND SEDIMENT. IT WILL BE THE RESPONSIBILITY OF

15. THE CONTRACTOR SHALL PROVIDE ON SITE OR MAKE READILY AVAILABLE THE NECESSARY EQUIPMENT AND SITE PERSONNEL DURING CONSTRUCTION HOURS FOR THE DURATION OF THE PROJECT TO

MONTHS THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE PERSONNEL AND EQUIPMENT EITHER ON SITE OR MAKE READILY AVAILABLE TO ENSURE ALL EROSION AND SEDIMENTATION CONTROL

17. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL DUST BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO

18. THE CONTRACTOR SHALL ROUTINELY INSPECT THE PERIMETER OF THE SITE PROPERTY TO GATHER AND REMOVE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL

19. BURIAL OF ANY STUMPS, SOLID DEBRIS, AND/OR STONES/BOULDERS ONSITE IS PROHIBITED UNLESS OTHERWISE INDICATED BY THE ENGINEER. NO ROAD SALT, SAND, OR OTHER DE-ICING CHEMICALS

20. THE CONTRACTOR IS RESPONSIBLE FOR ROUTINE INSPECTION AND MAINTENANCE DURING CONSTRUCTION OF ALL STORMWATER FACILITIES INSTALLED OR IMPACTED BY THE PROJECT. ANY SEDIMENT

21. SEDIMENTATION AND EROSION CONTROL BARRIERS AND INSPECTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH ANY TOWN PERMIT CONDITIONS AND INPOSE CONSTRUCTION GENERAL PERMIT.

16. IF DEWATERING IS NECESSARY DURING CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT PROPER MEASURES INCLUDING DEWATERING BAGS, TEMPORARY

STRAW BALES, SILT FENCES, SILT SOCKS AND/OR OTHER APPROVED DEVICES. THE DEWATERING MEASURES SHALL BE APPROVED BY THE ENGINEER. DEWATERING BASINS SHALL NOT BE

ENSURE ALL EROSION AND SEDIMENTATION CONTROL DEVICES ARE PROPERLY MAINTAINED AND REPAIRED IN A TIMELY AND RESPONSIBLE MANNER. IF SITE WORK IS SUSPENDED DURING THE WINTER

13. ALL EXITS FROM THE SITE SHALL BE SWEPT AS NECESSARY, INCLUDING ANY TRACKING TO ENSURE SEDIMENT IS CONTAINED ONSITE. PAVED AREAS SHALL BE SWEPT AS NEEDED TO REMOVE

6. THE LIMIT OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. THE CONTRACTOR SHALL PHASE THE SITE WORK IN A MANNER TO MINIMIZE AREAS OF EXPOSED OR UNSTABILIZED SOIL. IF TREES ARE TO BE CUT ON THE ENTIRE SITE, ONLY THOSE AREAS WHICH ARE ACTIVELY UNDER CONSTRUCTION SHALL BE

3. A MINIMUM SURPLUS OF 25-FEET OF SEDIMENTATION AND EROSION CONTROL BARRIER (SILT FENCE, STRAW BALE, &/OR SILT SOCK) SHALL BE STORED ONSITE AT ALL TIMES.

4. THE CONTRACTOR SHALL PREVENT ANY SEDIMENT TRANSPORT TO THE ADJACENT PROPERTIES DURING CONSTRUCTION AND UNTIL ACCEPTANCE BY THE OWNER/ENGINEER

EROSION & SEDIMENT CONTROL NOTES

BEYOND THE LIMIT OF WORK AT ANY TIME THROUGH THE CONSTRUCTION PERIOD.

OTHER CONSTRUCTION RELATED WORK.

CONSTRUCTION PERIOD.

THE OWNER.

MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.

AND NO LATER THAN 24 HOURS AFTER IDENTIFICATION.

NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.

BASIC CONSTRUCTION SEQUENCE

- SURVEY AND DELINEATE THE PROPOSED LIMIT OF DISTURBANCE AND LIMIT OF PERIMETER EROSION AND SEDIMENTATION CONTROL BARRIERS.
- STAKE OUT THE LOCATIONS FOR EROSION AND SEDIMENTATION CONTROL BARRIERS (STRAW BALES, SILT FENCE, ETC.) AND INSTALL ACCORDING TO THE PLANS AND ANY APPLICABLE CITY PERMITS. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE EROSION AND SEDIMENTATION CONTROL BARRIERS WHICH REPRESENTS THE LIMIT OF DISTURBANCE AS SHOWN ON THE APPROVED PROJECT PLANS. INSTALL SILT SACS AND HAVE EROSION AND SEDIMENTATION CONTROL BARRIERS INSPECTED BY ENGINEER AND ANY TOWN DEPARTMENTS. IF NECESSARY.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCES ONLY IN LOCATIONS INDICATED ON PLANS. NO OTHER ENTRANCES SHALL BE USED TO GAIN ACCESS TO THE SITE BY ANY CONSTRUCTION OR DELIVERY VEHICLES.
- 4. SURVEY AND STAKE OUT CLEARING LIMITS AND ACCESS DRIVEWAY
- 5. BEGIN NECESSARY CLEARING, GRUBBING, TREE REMOVAL, AND SITE PREPARATION.
- 6. INSTALL TEMPORARY CONVEYANCE DEVICES (SWALES, PIPES, ETC.) AS NECESSARY TO CONVEY RUNOFF TO TREATMENT AREAS
- BEGIN ROUGH SITE GRADING AND BRING TO SUBGRADE ELEVATIONS. WORK SHALL PROGRESS DILIGENTLY TO MINIMIZE TIME SOILS ARE
- BEGIN TO CONSTRUCT BUILDING, WALL, STORMWATER MANAGEMENT SYSTEM, AND UTILITIES. ANY EROSION CONTROL DEVICE DISTURBED DURING THE UNDERGROUND UTILITY CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED IN KIND AND STABILIZED. MODIFY TEMPORARY CONVEYANCE DEVICES AS NECESSARY TO CONVEY RUNOFF TO TREATMENT AREAS.
- DO NOT OVER COMPACT SOILS IN AREAS OF PROPOSED INFILTRATION AND AVOID INFILTRATION AREAS WITH CONSTRUCTION EQUIPMENT CONTRACTOR RESPONSIBLE FOR OVER EXCAVATION OF INFILTRATION AREAS IF CONSTRUCTION TRAFFIC ROUTES OCCUR THROUGH PROPOSED INFILTRATION AREAS. PARTICULAR CARE SHALL BE TAKEN TO PROTECT THE UNDERGROUND DRAINAGE BASINS FROM SEDIMENT.
- 10. PERMANENTLY SEED ALL DISTURBED AREAS OUTSIDE OF THE AREA TO BE PAVED. SEEDING SHALL OCCUR WITHIN EITHER THE SPRING OR FALL GROWING SEASON.
- 11. ONCE ALL UNDERGROUND UTILITIES HAVE BEEN CONSTRUCTED, PLACE COMPACTED GRAVEL FOUNDATION AND ROUGH GRADE THE ROADWAYS/PARKING AREAS IN ACCORDANCE WITH THE SITE PLANS AND IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL REGULATIONS.
- 12. BEGIN DRIVEWAY, PARKING, MILLINGS YARD CONSTRUCTION PER SITE PLANS AND IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL REGULATIONS. DRIVEWAY AND PARKING AREAS ARE NOT TO BE PAVED UNTIL THE ENTIRE PERMANENT DRAINAGE SYSTEM HAS BEEN INSTALLED AND ALL PIPE CONNECTIONS ARE COMPLETE.
- 13. FINISH PERMANENT STABILIZATION; SWEEP THE DRIVEWAY TO REMOVE ALL SEDIMENTS; THE CONTRACTOR SHALL CLEAN AND FLUSH THE DRAINAGE STRUCTURES AND PIPES AT THE END OF CONSTRUCTION AND ALL ACCUMULATED SEDIMENTS IN THE DRAINAGE BASINS SHALL BE REMOVED. CONTRACTOR SHALL INSPECT THE DRAINAGE NETWORK AND REPAIR ANY DAMAGE IMMEDIATELY.
- 14. COMPLETE ALL REMAINING PLANTING, SEEDING, AND FENCING
- 15. REMOVAL OF ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS SHALL BE APPROVED BY THE ENGINEER AND THE TOWN, IF APPLICABLE AND WHEN THE CONTRIBUTING AREA HAS REACHED A MINIMUM OF 80% STABILIZATION.

LEGEND CATCH BASIN CONCRETE CONCRETE BOUND WITH DRILL HOLE **EDGE OF PAVEMENT** EDGE OF RECYCLED ASPHALT PAVEMENT ELECTRIC METER EROSION CONTROL BARRIER EXISTING CONTOUR

FLOOD ZONE LIMIT

LANDSCAPED AREA

OVERHEAD WIRE

FOUND — • — • — • GAS LINE

> HYDRANT **IRON PIN**

— PROPERTY LINE

PROPOSED CONTOUR SOIL CLASS BOUNDARY

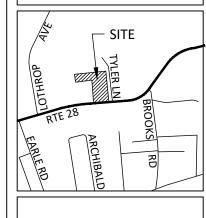
> **TEST PIT** UTILITY POLE

DRAWING	SHEET
GENERAL NOTES	G-00
EXISTING CONDITIONS	C-00
SITE PLAN	C-01
UTILITIES PLAN	C-02
ON-SITE SANITARY DISPOSAL SYSTEM	C-03
EROSION CONTROL PLAN	C-04
WATERSHED AREAS	C-05
TRAFFIC CIRULATION PLAN	C-06
DETAILS	D-00



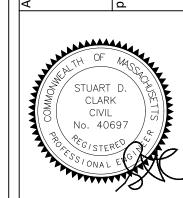
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PB Comments 2 1/8/21 No. Date Description

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NTS **December 17, 2020** drawn by checked by

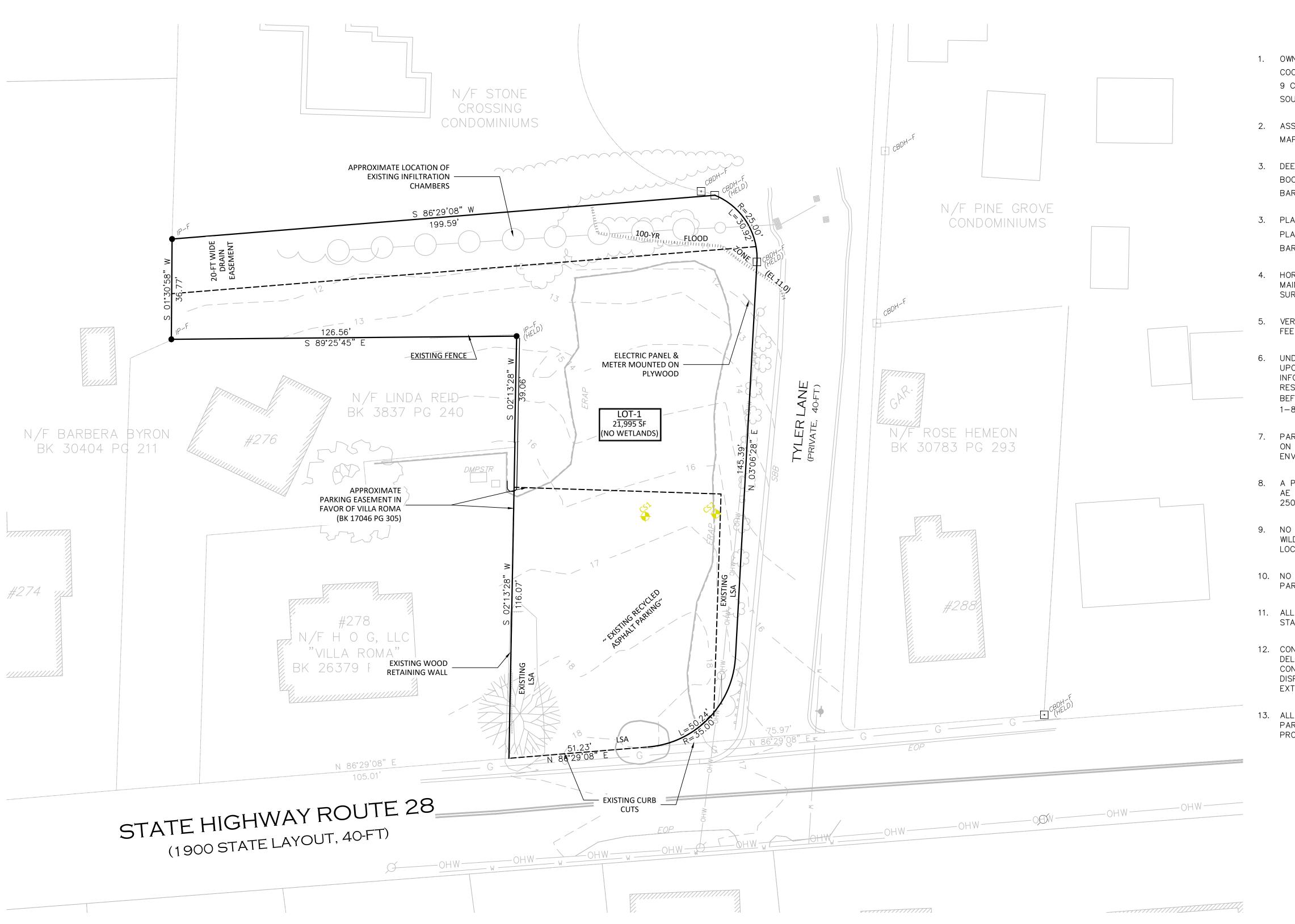
> **GENERAL NOTES AND** LEGEND

LIST OF DRAWINGS

DRAWING	SHEET
GENERAL NOTES	G-00
EXISTING CONDITIONS	C-00
SITE PLAN	C-01
UTILITIES PLAN	C-02
ON-SITE SANITARY DISPOSAL SYSTEM	C-03
EROSION CONTROL PLAN	C-04
WATERSHED AREAS	C-05
TRAFFIC CIRULATION PLAN	C-06
DETAILS	D-00

CONTRACTOR TO VERIFY ACTUAL LOCATION OF EXISTING UTILITY SERVICES IN THE FIELD

PRIOR TO CONSTRUCTION.





- 1. OWNER OF RECORD: COOL CHANGE, LLC 9 CAPTAIN NOYES ROAD SOUTH YARMOUTH, MA 02664
- 2. ASSESSORS REFERENCE: MAP 12 LOT G 2-1
- 3. DEED REFERENCE: BOOK 33205, PAGE 156 BARNSTABLE REGISTRY OF DEEDS
- 3. PLAN REFERENCE: PLAN BOOK 596, PAGE 23 (LOT -1) BARNSTABLE REGISTRY OF DEEDS
- 4. HORIZONTAL DATUM IS BASED UPON MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM, NAD83, IN US SURVEY FEET.
- 5. VERTICAL DATUM IS BASED UPON NAVD88, IN US SURVEY
- 6. UNDERGROUND UTILITIES DEPICTED HEREON ARE BASED UPON VISIBLE, ABOVE GROUND EVIDENCE AND RECORD INFORMATION AND ARE ONLY APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR TAKING ALL NECESSARY PRECAUTIONS BEFORE BEGINNING ANY EXCAVATION. (DIGSAFE 1-888-344-7233)
- 7. PARCEL AND RIGHT OF WAY LINES WERE OBTAINED WITH AN ON THE GROUND SURVEY PERFORMED BY GREEN SEAL ENVIRONMENTAL, INC. ON OCTOBER 20, 2020.
- 8. A PORTION OF THIS SITE IS LOCATED IN FEMA FLOOD ZONE AE WITH A BFE OF 11.00 NAVD88 AS SHOWN ON FIRM 25001C0611J, EFFECTIVE JULY 16, 2014.
- 9. NO CERTIFIED VERNAL POOLS, ESTIMATED HABITATS OF RARE WILDLIFE, OR PRIORITY HABITATS OF RARE SPECIECS ARE LOCATED ON OR WITHING 500 FEET OF THE SITE.
- 10. NO SIGNIFICANT SOIL IMPORT OR EXPORT IS PROPOSED AS PART OF THIS SITE DEVELOPMENT.
- 11. ALL PROPOSED SLOPES ARE 3:1 OR LESS AND WILL BE STABILIZED BY LANDSCAPING.
- 12. CONSTRUCTION MATERIALS WILL BE USED PROMPTLY AFTER DELIVERY AND ANY WASTE MATERIALS WILL BE STORED IN CONTAINERS AND PROPERLY REMOVED FROM THE SITE AND DISPOSED OF. DUE TO THE SMALL SIZE OF THE SITE, NO EXTENDED STORAGE OF MATERIALS WILL OCCUR.
- 13. ALL CONSTRUCTION VEHICLES SHALL PARK ON SITE. PARKING OF CONSTRUCTION VEHICLES OUTSIDE OF SITE PROPERTY IS PROHIBITED

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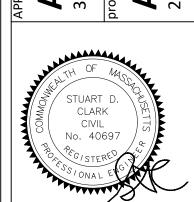


2 1/8/21 PB Comments

1 12/10/20 ZBA Comments No. Date Description

BLDG

MARINE ICH PORT, MA ALLEN HARBOR MARINE 282 ROUTE 28, HARWICH PORT, MA HARBOR COUNTY RD. HARWIG

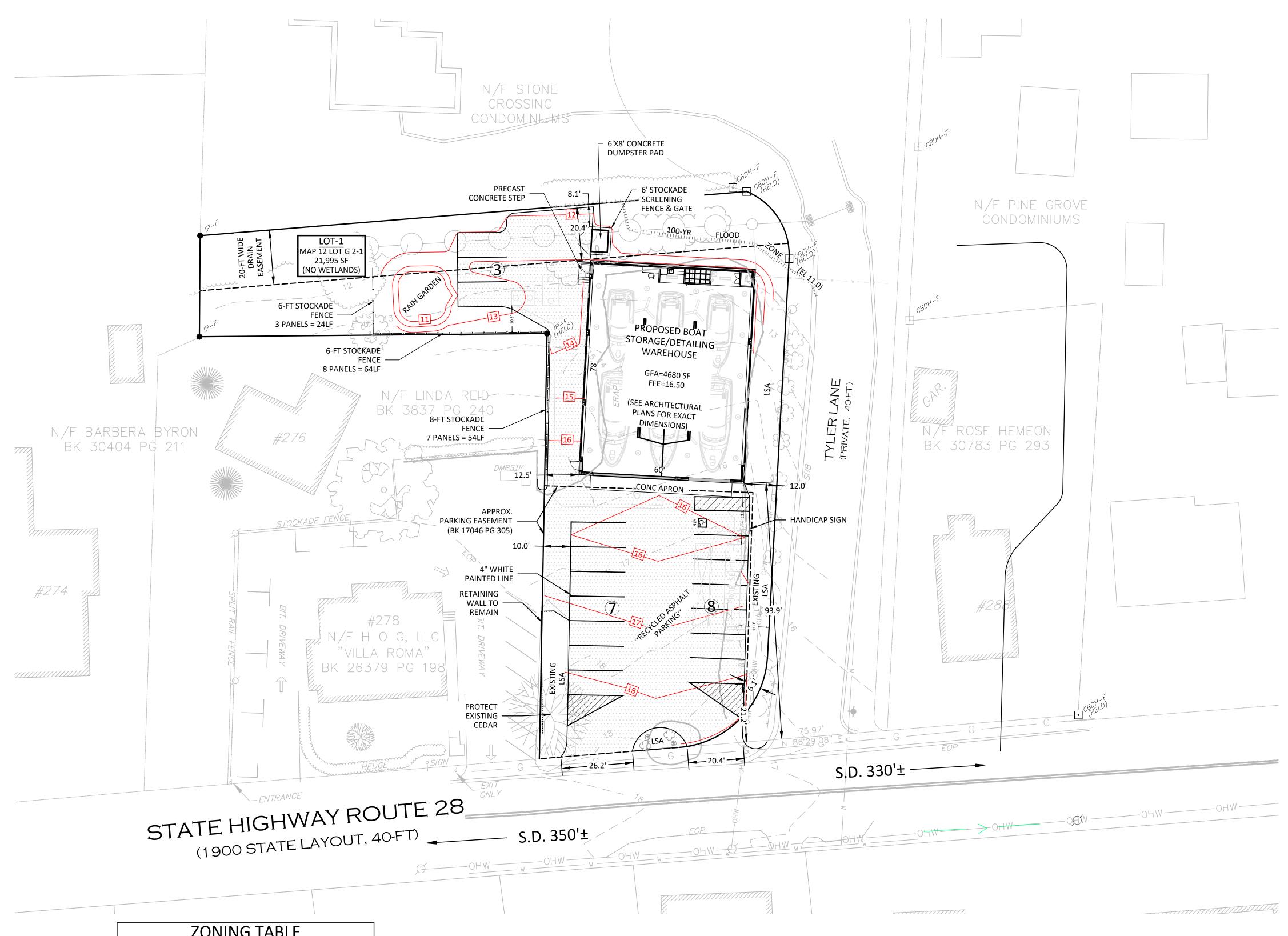


1"=20' December 17, 2020

drawn by checked by

> **EXISTING** CONDITIONS

C-00



ZONING TABLE		
ZONE: COMMERCIAL HIGHWAY (C-H-1)		
PROPOSED USE: MARINE STORAGE (PERMITTED)		

MIN FRONTAGE	REQUIRED	PROPOSED	
AREA (OTHER PERMITTED USE)	20,000 SF	TOTAL 21,995 SF 21,093 SF (UPLAND) 0 SF (WETLANDS) 902 SF (FLOOD PLAIN)	
FRONT YARD SETBACK	25'	12' TYLER LN 94.4' RTE 28	VARIANCE GRANTED CASE # 2020-41
SIDE YARD SETBACK	10'	12.5'	
REAR YARD SETBACK	10'	20.4'	
FRONT PARKING SETBACK	20'	4.8' TYLER LN 18' RTE 28	VARIANCE GRANTED CASE # 2020-41
SIDE/REAR PARKING SETBACK	10'	10'	
MAX BUILDING COVERAGE	30%	21%	
MAX LOT COVERAGE	70%	58%	
MAXIMUM BUILDING HEIGHT	30'	25.5'	

PARKING CALCULATION

MARINA OR BOAT YARD USE:

1 PER EMPLOYEE MAXIMUM SHIFT, PLUS 1 PER SLIP, OR 1 SPACE PER DRY STORAGE
CAPACITY, WHICHEVER IS GREATER, AND 1 PER EACH 2 MOORINGS ASSIGNED TO THE
MARINA OR BOAT YARD
EMPLOYEES (4) = 4
BOAT STORAGE (6)= 6

10 REQUIRED (18 PROVIDED)
521 CMR 23.00 ACCESSIBLE SPACE REQUIREMENT

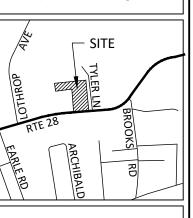
(1 TO 25 SPACES) = 1 WITH 1 VAN ACCESSIBLE (1 VAN ACCESSIBLE PROVIDED)

THIS PARCEL IS SUBJECT TO A PARKING EASEMENT AND AGREEMENT WITH OWNER'S OF VILLA ROMA RESTAURANT AS SHOWN ON ASSESSORS MAP 12 AS LOT G 1-A. (SEE BK 17046 PG 305) THE AGREEMENT ALLOWS THE COOPERATIVE USE OF THE PARKING LOT. THE AGREEMENT ALLOWS THE RESTAURANT TO USE THE PARKING LOT EXCLUSIVELY FROM 5PM TO 1AM (WITH A 3 SPACE EXCEPTION FROM 5 PM TO 7 PM). BOTH PARTIES MAY USE THE LOT FROM 1 AM TO 5 PM.

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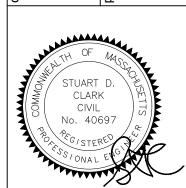
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2	1/8/21	PB Comments
1	12/10/20	ZBA Comments
NIA	Data	Description

ALLEN HARBOR MARINE
335 LOWER COUNTY RD, HARWICH PORT, MA
roject
ALLEN HARBOR MARINE BLDG
282 ROUTE 28, HARWICH PORT, MA



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date	

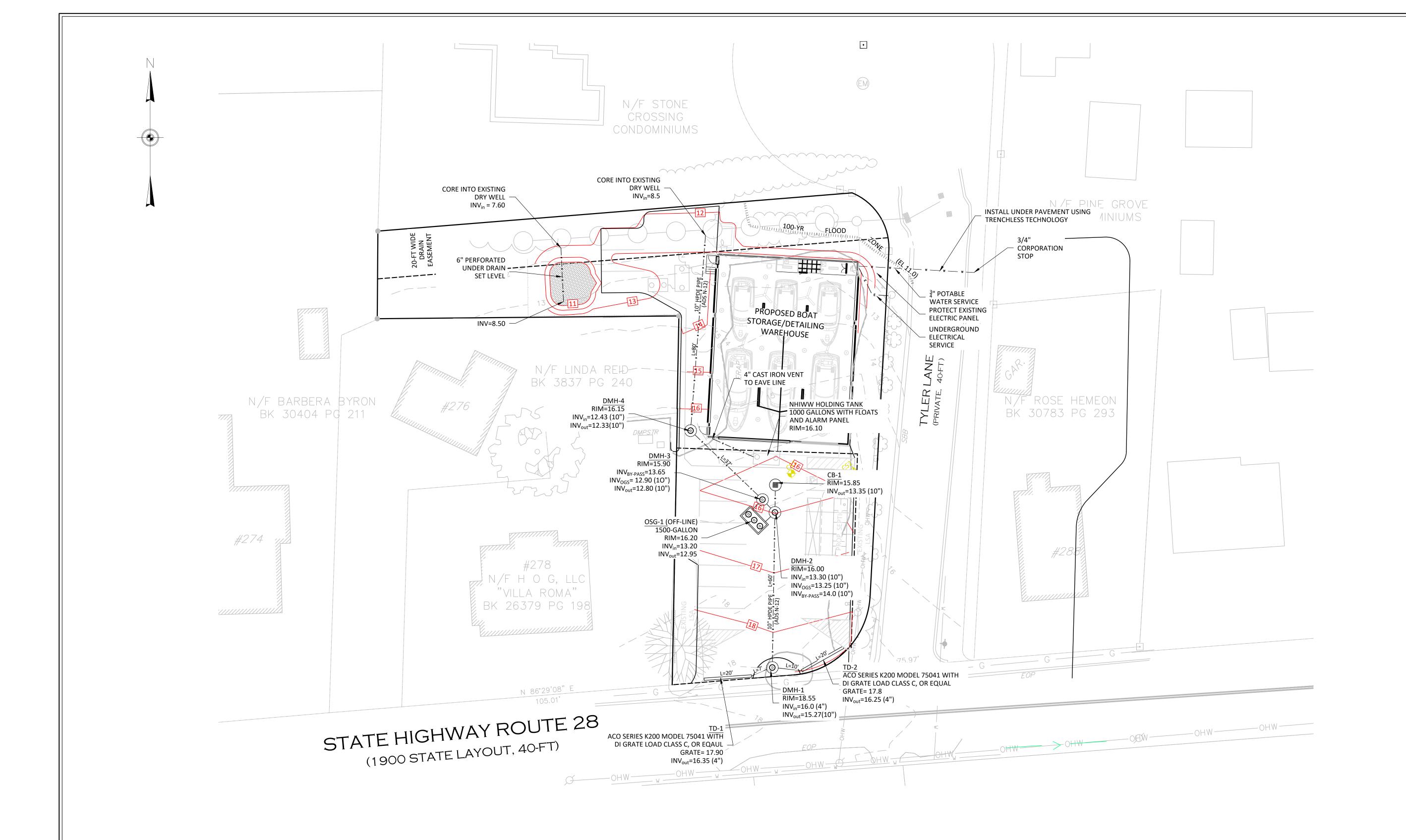
date
December 17, 2020
project 2045
drawn by SC
checked by SC

NOT FOR CONSTRUCTION

DRAWING SCALE: 1" = 20"

SITE PLAN

C-01





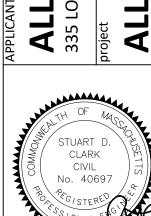




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BLDG MARINE ICH PORT, MA ALLEN HARBOR MARINE 282 ROUTE 28, HARWICH PORT, MA ALLEN HARBOR I
335 LOWER COUNTY RD, HARWIC



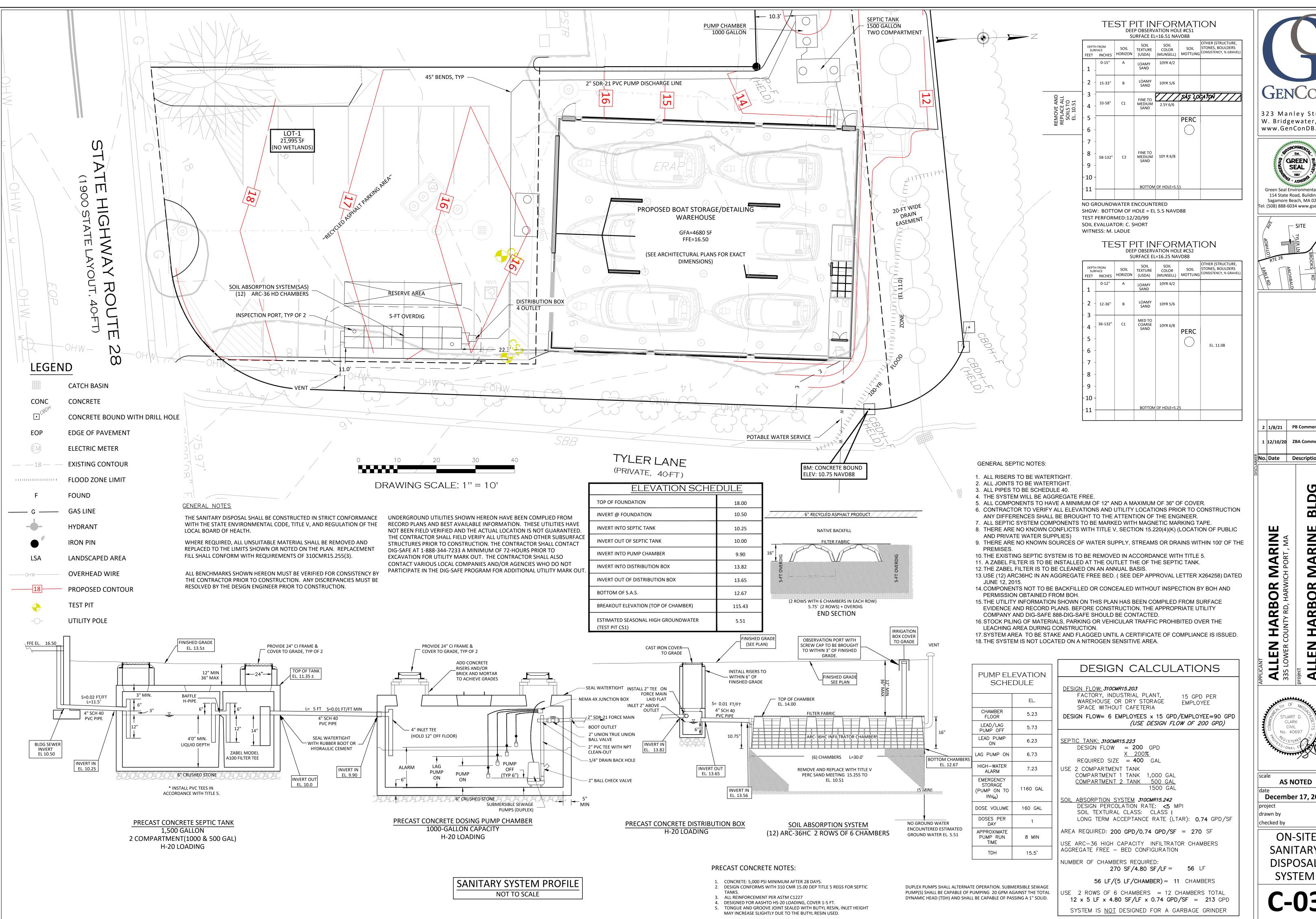
STUART D. CLARK CIVIL No. 40697
No. 40697
,,,

scale 1"=2	0'
date December :	17, 2020
project	2045
drawn by	SI
checked by	SI

UTILITIES PLAN

C-02

DRAWING SCALE: 1" = 20'



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2 1/8/21 PB Comments

1 12/10/20 ZBA Comments

No. Date Description

B

MARIN HARBOR

28, HARWICH PORT, I

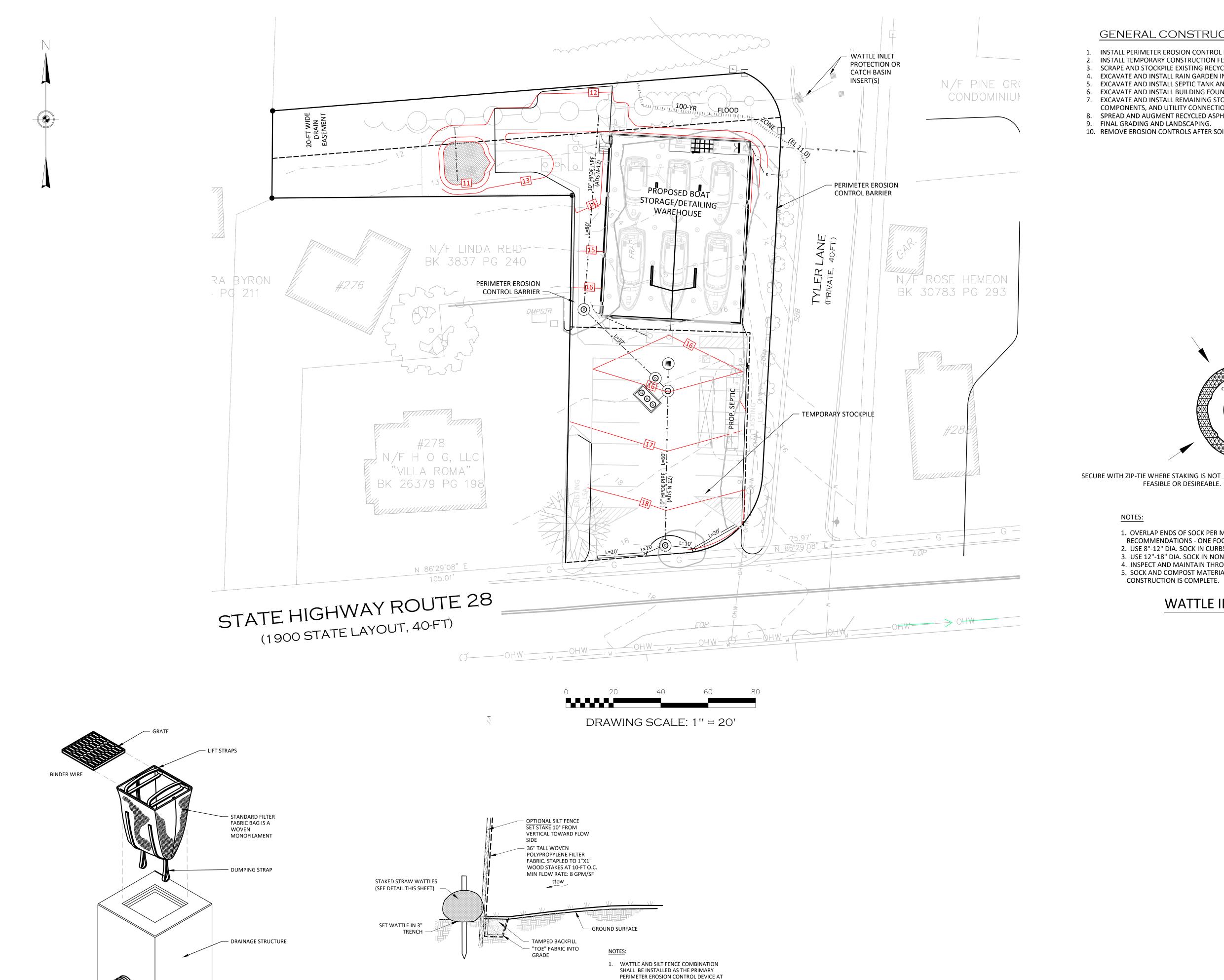
ALLEN
282 ROUTE 28



AS NOTED

December 17, 2020

ON-SITE SANITARY DISPOSAL



EROSION CONTROL BARRIER

NOT TO SCALE

CATCH BASIN INSERT

NOT TO SCALE

LOCATIONS SHOWN ON SHEET C-02.

2. SILT FENCE AND POSTS FROM APPROVED MANUFACTURER/SUPPLIER SET TO

MANUFACTURERS SPECIFICATION.

ALTERNATE FOR THE WATTLES AS SHOWN

3. STRAW BALES MAY BE USED AS AN

GENERAL CONSTRUCTION SEQUENCE

- INSTALL PERIMETER EROSION CONTROL MEASURES AND CATCH BASIN CONTROLS.
- INSTALL TEMPORARY CONSTRUCTION FENCE IF DESIRED.
- SCRAPE AND STOCKPILE EXISTING RECYCLED ASPHALT PAVEMENT. RING WITH WATTLE EROSION CONTROL.
- 4. EXCAVATE AND INSTALL RAIN GARDEN INCLUDING DRAIN PIPE CONNECTIONS TO EXISTING INFILTRATION.
- EXCAVATE AND INSTALL SEPTIC TANK AND PUMP CHAMBERS.
- 6. EXCAVATE AND INSTALL BUILDING FOUNDATION. CONSTRUCT BUILDING. 7. EXCAVATE AND INSTALL REMAINING STORMWATER PIPING AND STRUCTURES, REMAINING SEPTIC
- COMPONENTS, AND UTILITY CONNECTIONS.
- 8. SPREAD AND AUGMENT RECYCLED ASPHALT PAVEMENT AS NECESSARY. ROLL AND COMPACT. 9. FINAL GRADING AND LANDSCAPING.
- 10. REMOVE EROSION CONTROLS AFTER SOILS ARE STABILIZED.

FEASIBLE OR DESIREABLE.

CONSTRUCTION IS COMPLETE.

1. OVERLAP ENDS OF SOCK PER MANUFACTURERS

3. USE 12"-18" DIA. SOCK IN NON-TRAFFICED AREAS.

PLAN

RECOMMENDATIONS - ONE FOOT MINIMUM, 3 FEET MAXIMUM.

5. SOCK AND COMPOST MATERIAL TO BE REMOVED FROM SITE WHEN

WATTLE INLET PROTECTION

NOT TO SCALE

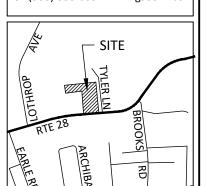
2. USE 8"-12" DIA. SOCK IN CURBSIDE OR TRAFFICED AREAS.

4. INSPECT AND MAINTAIN THROUGHOUT CONSTRUCTION.







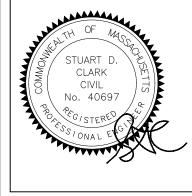




2 1/8/21 | PB Comments 1 12/10/20 ZBA Comments

No. Date Description

BLDG ALLEN HARBOR MARINE 282 ROUTE 28, HARWICH PORT, MA HARBOR SOUNTY RD. HARWIG



1"=20'

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December 17, 2020 drawn by

EROSION AND **SEDIMENT** CONTROL PLAN



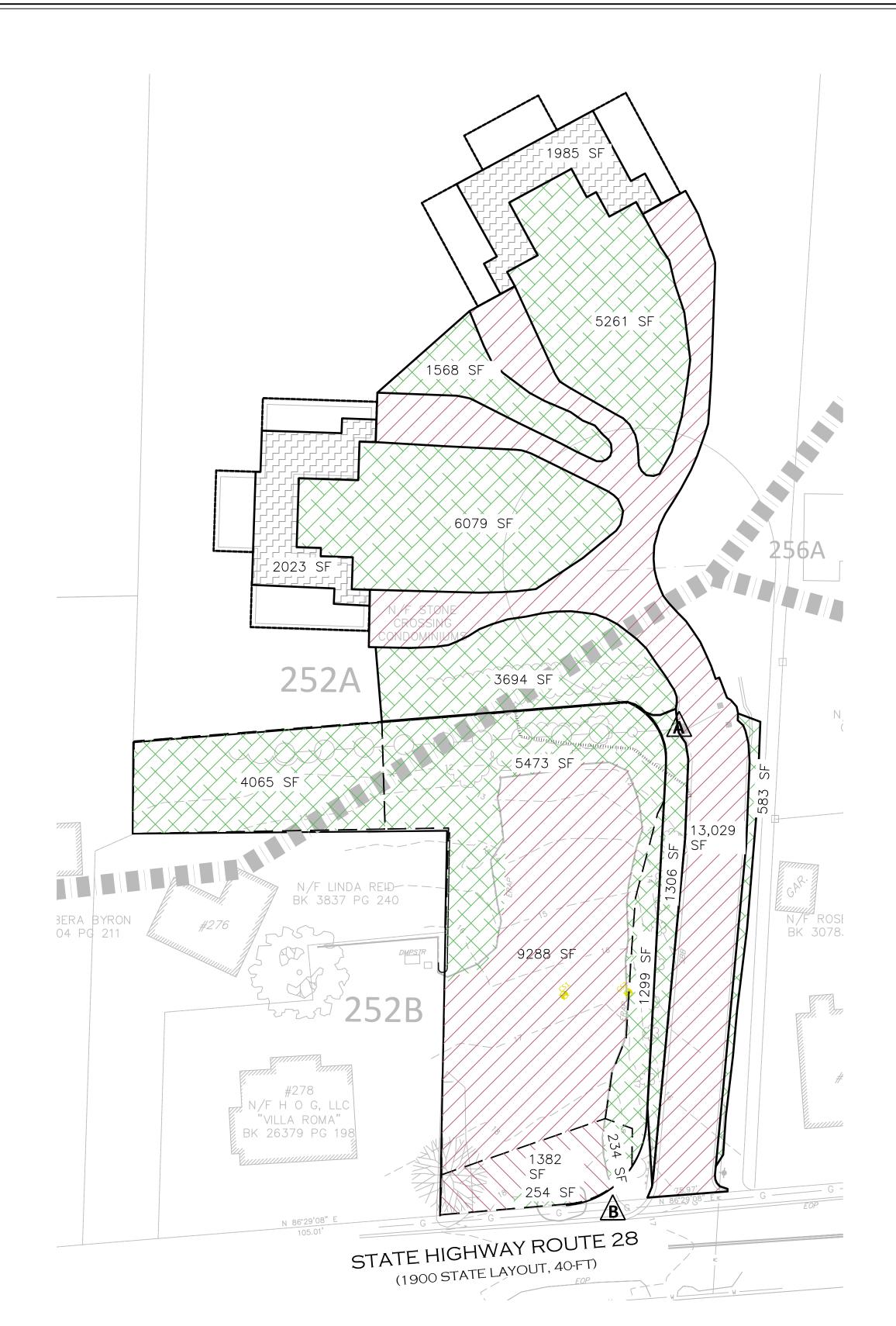
WATER FLOW (TYP.)

DETERMINE SIZE.

WIRE TIE-OFF (TYP.)

COMPOST FILTER SOCK. SEE PLAN AND NOTES TO

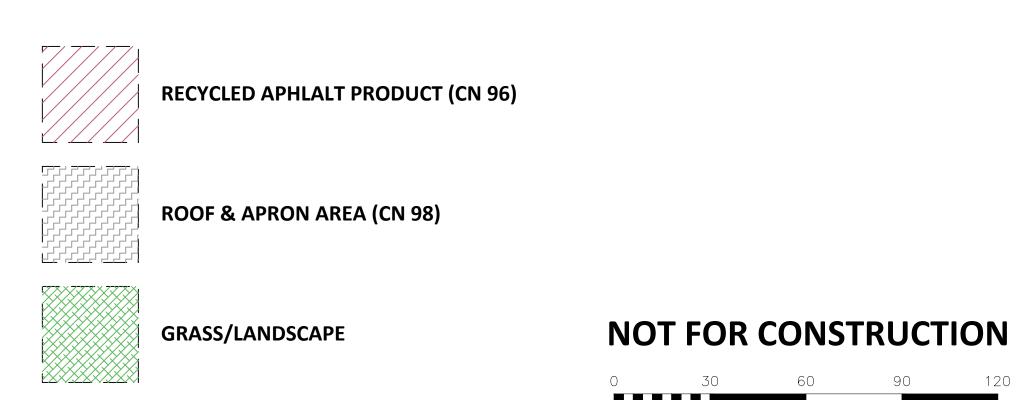




EXISTING CONDITION WATERSHED AREAS



POST DEVELOPMENT WATERSHED AREAS

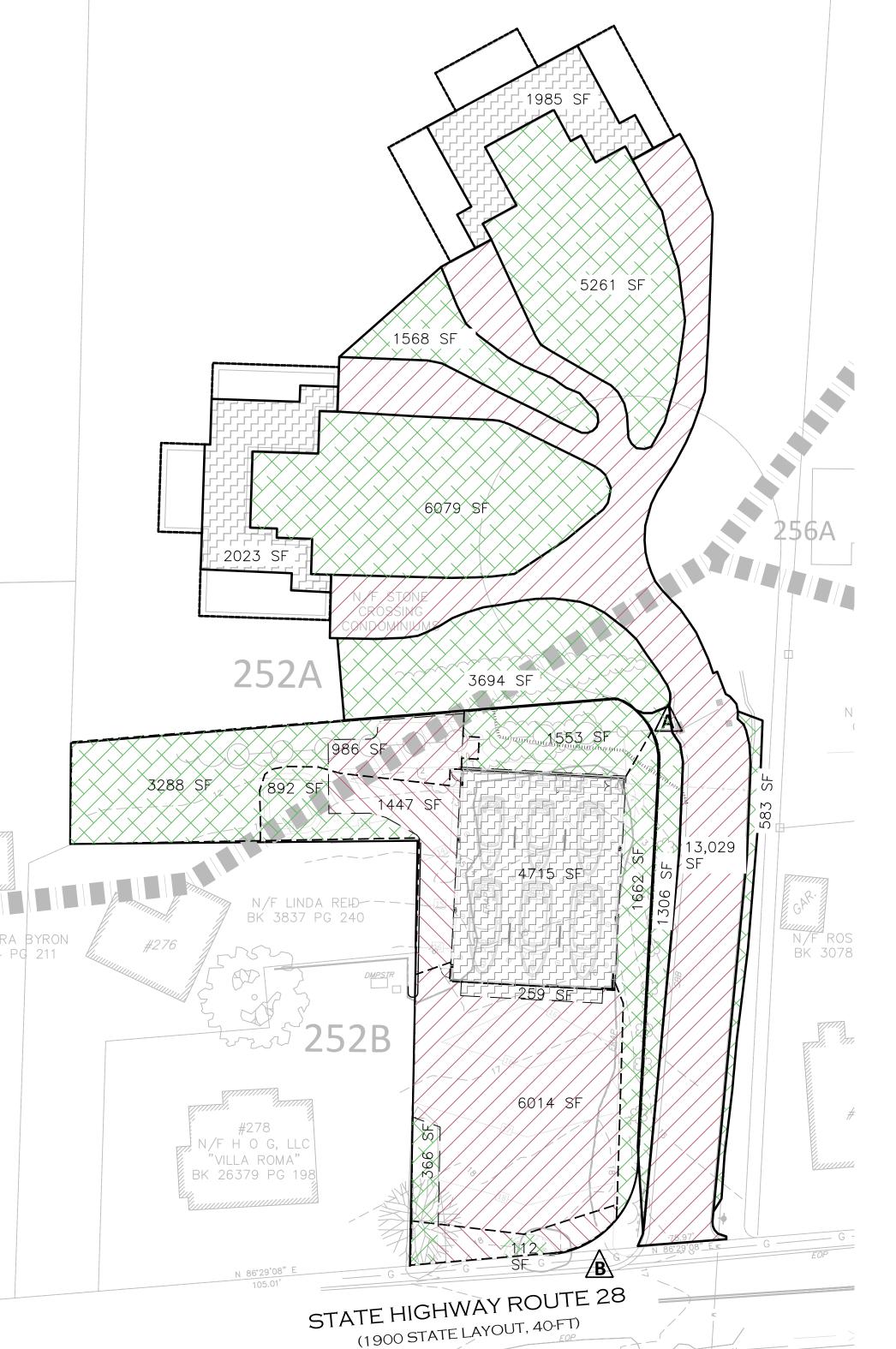


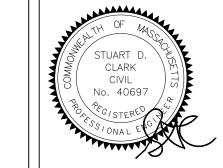
SDC/NHE

DRAWING SCALE: 1" = 30"

WATERSHED **AREAS**

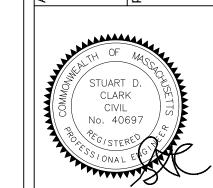
C-05





1"=30'

December 17, 2020



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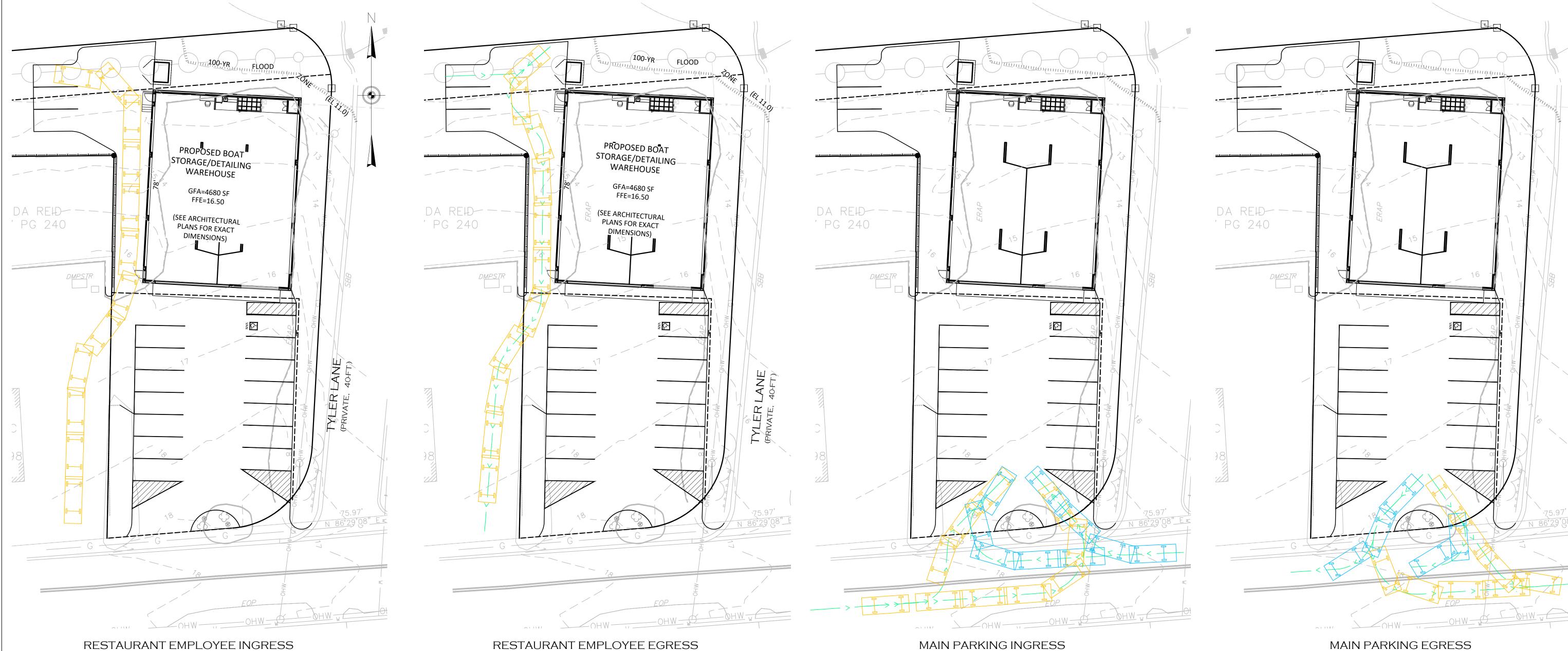
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2 1/8/21 PB Comments

1 12/10/20 ZBA Comments

BLDG

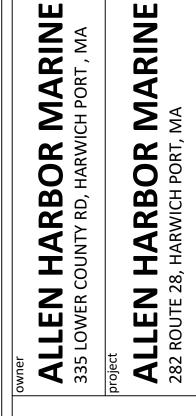
ALLEN HARBOR MARINE 282 ROUTE 28, HARWICH PORT, MA



MAIN PARKING EGRESS

TRAFFIC/PARKING NOTES:

- 1. HISTORICALLY, THE VILLA ROMA (RESTAURANT) HAS BEEN USING THE GRAVEL AREA ON THIS PARCEL FOR NON-STRUCTURED PARKING. THE INTENT OF THIS PARKING PLAN IS TO ALLOW FOR CONTINUED/SHARED USE IN A MORE FORMALIZED SETTING.
- 2. OPERATIONALLY, THE MAIN PARKING LOT WILL BE SHARED BY THE APPLICANT AND THE RESTAURANT. THE APPLICANT WILL UTILIZE THE MAIN PARKING FROM 1AM TO 5PM. THE RESTAURANT WILL HAVE EXCLUSIVE USE OF THE MAIN PARKING LOT FROM 5PM TO 1AM.
- 3. THE THREE (3) SPOTS DESIGNATED AT THE REAR OF THE PROPERTY ARE INTENDED FOR RESTAURANT EMPLOYEE DAYTIME PARKING (1AM TO 5PM).



2 1/8/21 PB Comments

1 12/10/20 ZBA Comments

BLDG

No. Date Description

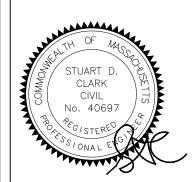
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1"=20'

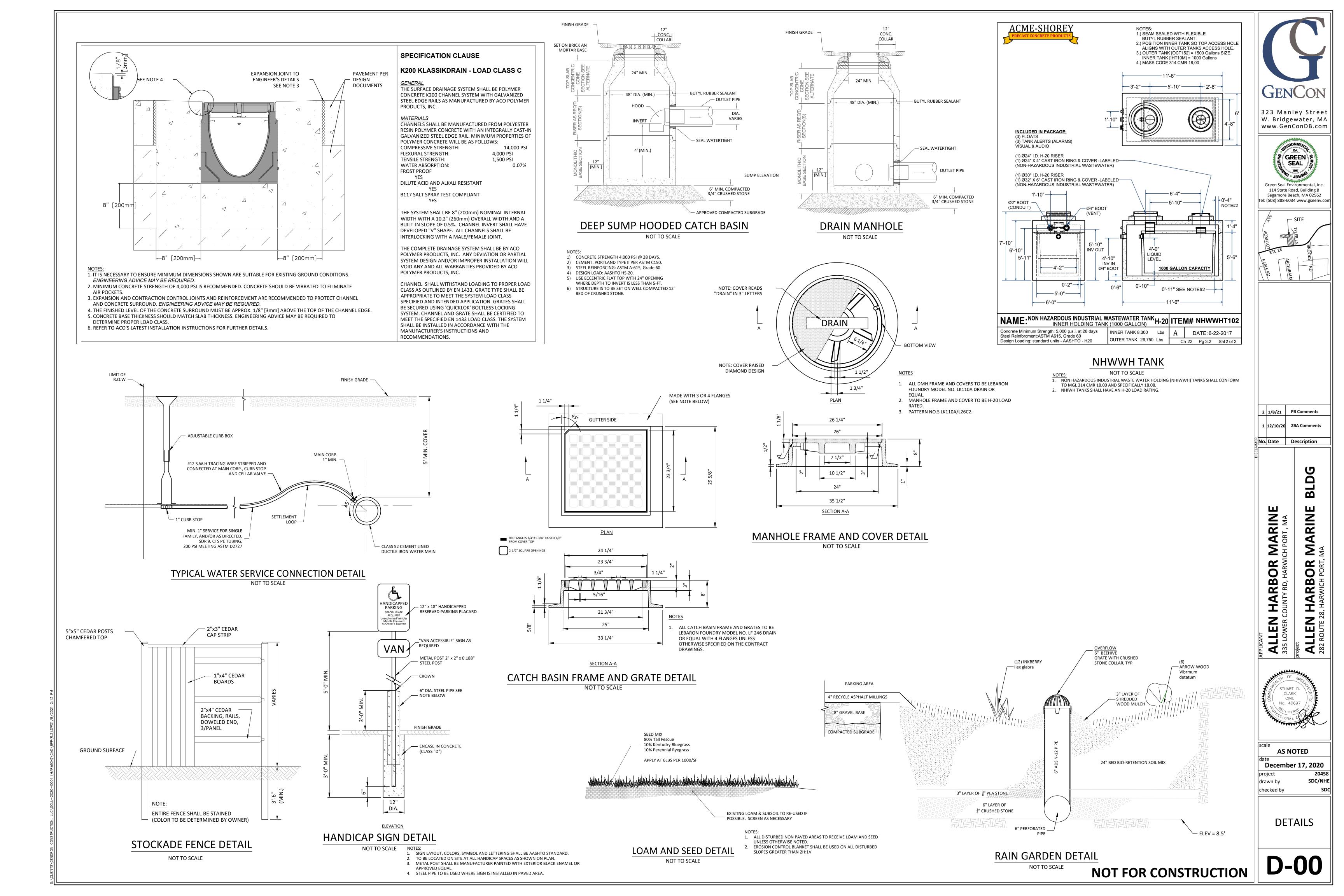
December 17, 2020

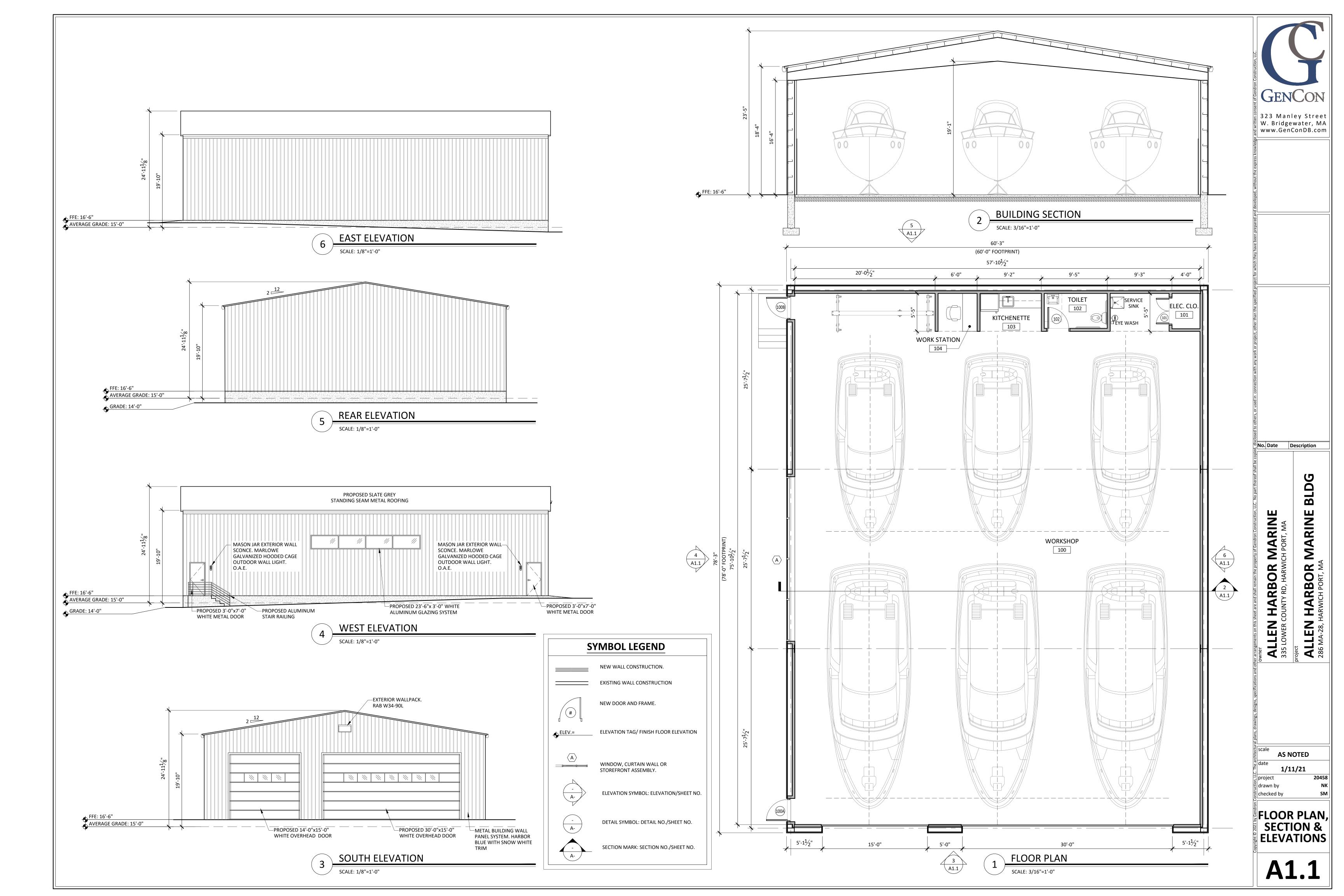
SDC/NHE drawn by checked by

TRAFFIC CIRCULATION PLAN

NOT FOR CONSTRUCTION

DRAWING SCALE: 1" = 20"







SCALE: NOT TO SCALE

SCALE: NOT TO SCALE



2 VIEW 2 SCALE: NOT TO SCALE





VIEW 1 SCALE: NOT TO SCALE 323 Manley Street
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BLDG ALLEN HARBOR MARINE 286 MA-28, HARWICH PORT, MA ALLEN HARBOR MARINE
335 LOWER COUNTY RD, HARWICH PORT, MA

AS NOTED 12/17/20

drawn by checked by

RENDERINGS



Harwich Planning Department Ms. Charleen Greenlagh 732 Main Street Harwich, MA Attn: Ms. Greenlagh

RE: PB-2002-34 - Exterior Light Fixtures

Ms. Greenlagh,

The following light fixtures are being proposed for the exterior of the building.

- 1) RAB Lighting- 90L fixture is for the front peak of the building.
- 2) John Timberland /Marlowe 13 1/4"H Galvanized Hooded Cage Outdoor Wall Light- One (1) of these fixture at each egress on the West elevation.

Please contact me if you have any questions.

Thank you,

Project Manager

Ultra economy that gets the job done right.



W34

At RAB, lowest price still means highest standards.

Outdoor

W34[™]

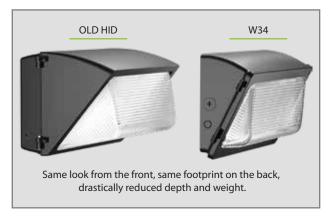
- Available in 6 lumen packages
 (replaces up to 400W MH; see performance on back page):
 Small 3,100 lm and 3,600 lm
 Medium 5,400 lm, 7,200 lm or 9,100 lm
 Large 15,000 lm
- Integrated 0-10V dimming
- Available with photocell or microwave occupancy sensor
- Lightcloud®-enabled models offered
- 50,000-Hour LED lifespan



RAB's warranty is subject to al terms and conditions found at rablighting.com/warranty.



Save even more with utility rebates. W34 models are DLC listed.



Optimized to deliver value.

Products in the W34 family combine the open-face look of traditional wall packs with a cost-efficient design that streamlines the replacement cycle of outdated or inoperable fixtures. You get exactly what you need to get the job done right...all at a fantastic price point.



Light and motion sensing.

Button photocell and microwave occupancy sensor accessories are available as factory-installed options to provide additional energy savings by turning lights on only when you need them.



Simple, powerful lighting control.

All models are available with factory-installed Lightcloud integration, for use with our commercial, wireless lighting control system and service.

Specifications

UL Listing:

Suitable for wet locations. Suitable for mounting within 4 feet of the ground

LEDs:

Long-life, high-efficacy, surface-mount LEDs

Lifespan:

50,000-hour LED lifespan based on IES LM-80 and TM-21 calculations

Drivers:

(30L): Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 0.24A, 208V: 0.15A, 240V: 0.13A, 277V: 0.12A
Constant Current, Class 2, 480V, 50/60Hz, 480V: 0.06A

(35L): Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 0.28A, 208V: 0.17A, 240V: 0.15A, 277V: 0.13A

Constant Current, Class 2, 480V, 50/60Hz, 480V: 0.07A

(55L): Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 0.43A, 208V: 0.26A, 240V: 0.22A, 277V: 0.19A Constant Current, Class 2, 480V, 50/60Hz, 480V: 0.07A

(70L): Constant Current, Class 2, 120-277V, 50/60Hz, 20V: 0.58A, 208V: 0.35A, 240V: 0.30A, 277V: 0.26A Constant Current, Class 2, 480V, 50/60Hz, 480V: 0.14A

(90L): Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 0.73A, 208V: 0.43A, 240V: 0.38A, 277V: 0.33A Constant Current, Class 2, 480V, 50/60Hz, 480V: 0.14A

(150L): Constant Current, Class 1, 120-277V, 50/60Hz, 120V: 1.14A, 208V: 0.69A, 240V: 0.60A, 277V: 0.52A
Constant Current, Class 2, 480V, 50/60Hz, 480V: 0.28A

0-10V Dimming (Standard):

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims as low as 10%.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid StateLighting (SSL) Products, ANSI C78.377-2017.

Housing:

Die-cast aluminum

Lens:

Glass

Reflector:

Specular aluminum

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:

Suitable for use in 40°C (104°F)

Mounting:

Die-cast backbox with four (4) conduit entry points and knockout pattern for junction box or direct wall mounting. Hinged door for easy re-assembly.

Green Technology:

Mercury and UV free. RoHS-compliant components.

Finish:

Formulated for high durability and long-lasting color

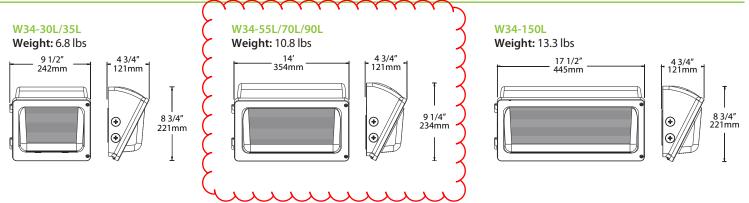
5 Yr Limited Warranty:

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions & Weights



W34 Smal

	3,1	00lm	3,60	0lm
Color Temperature	5000K	3000K	5000K	3000K
Input Watts	29	29	33	34
Output Lumens	3,105	3,044	3,601	3,529
Lumens Per Watt	107	105	109	105
Color Accuracy (CRI)	83 82		83	83
	(Replaces 70W MH)		(Replace:	s 100W MH)

W34 Medium

	5,4	00lm	7,2	00lm	9,100lm		
Color Temperature	5000K	3000K	5000K	3000K	5000K	3000K	
Input Watts	51	51	70	70	87	87	
Output Lumens	5,375	5,270	7,188	7,047	9,087	8,909	
Lumens Per Watt	105	103	103	101	104	102	
Color Accuracy (CRI)	83	82	83	82	83	82	
	(Replaces	150W MH)	(Replaces	s 2 00 W MH)	(Replace	es 250 MH)	

W34 Large

15,000lm

Color Temperature	5000K	3000K
Input Watts	136	136
Output Lumens	14,845	14,554
Lumens Per Watt	109	107
Color Accuracy (CRI)	83	82

(Replaces 400W MH)

Ordering information

Family	<u>′</u>	Lumen Package		CRI/CCT		Voltage		Options			
W34		_	90L		_						
			30L 35L 55L 70L 90L 150L	3100lm, 30W 3600lm, 33W 5400lm, 51W 7200lm, 69W 9100lm, 87W 15000lm, 136W		Blank 830	80 CRI, 5000K 80 CRI, 3000K	Blank /480	120-277V, 0-10V Dimming 480V, 0-10V Dimming	Blank /PCU /MVS /LC	No Option 120-277V Button Photocell 120-277V Microwave Sensor 120-277V Lightcloud® Control



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VIEW IN YOUR ROOM

PRODUCT DETAILS

A stylish galvanized metal finish graces the metal cage frame of this nautical-style outdoor wall light.

Additional Info:

The Marlowe collection of outdoor lighting offers a creative combination of nautical style and industrial design. This metal outdoor wall light features a stylish cage design with a hood on top and a narrow clear glass shade inside. A galvanized metal finish completes the hardy rustic look. Perfect for lighting up a patio area or garage space.

JOHN TIMBERLAND

Shop all John Timberland

- 13 1/4" high x 9 1/2" wide. Extends 10" from the wall. Round backplate is 5 1/4" wide. Weighs 3.08 lbs.
- · Uses one maximum 60 watt standardmedium base tube bulb (not included). Shown with an Edison filament bulb.
- Outdoor wall light for porches and patios. From the Marlowe collection by John Timberland. Based on industrial barn lights and coastal designs.
- Galvanized metal finish cage frame with hood. Clear glass shade inside.
- Wet location outdoor rated. Can also be used indoors.

RECOMMENDED BULBS



60W Equivalent Clear 8.5W LED Dimmable JA8 Standard Bulb Style # 80M08

1

\$9.99 ea.

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Marlowe 10 3/4" High Galvanized Cage Outdoor Ceiling... \$**69.**99



Urban Barn 10 1/4"W Galvanized Steel Outdoor Ceiling...

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Franklin Park 13" High Galvanized Steel Outdoor Wall...

\$99.99

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QUESTION: Is it dusk to dawn? If not can it be made dusk to dawn somehow?

Mary M on May 4, 2020

ANSWER: The light is not dusk to dawn. You could try using a Dusk to Dawn Sensor Light Bulb.

Reply · Inaccurate · Justin Z Staff on May 4, 2020

Add Answer · I Have This Question Too (0)

QUESTION: Is there a protective coating that can be applied for coastal area, i.e. car wax or another alternative

application?

Theresa C on Mar 2, 2020

ANSWER: We would recommend finding an outdoor wall light that is marine grade.

Reply · Inaccurate · Dan T Staff on Mar 2, 2020

Add Answer · I Have This Question Too (0)

QUESTION: Is there a spec sheet for Marlowe 13 1/4"?

BETSY D on Feb 17, 2020

ANSWER: The specs listed for this wall light are noted on our website. If more information is needed then what

is stated, please contact one of our Lighting and Home Décor Specialist for further assistance. They

can be reached by phone, email, or chat: https://www.lampsplus.com/contact-us/

Reply · Inaccurate · Dan T Staff on Feb 17, 2020

Add Answer · I Have This Question Too (0)

QUESTION: How does this attach to an electrical box? Can I use an octagonal metal box? Does the box need to

be oriented in any particular way? The boxes that I have use screws on the diagonal. Does this

fixture come with an adapter to attach to this type of box?

A shopper on Jun 17, 2019

ANSWER: The mounting bracket for these is VERY versatile. The only issue I have had is if the junction box is

mounted to that the screws for the bracket are exactly horizontal...any other angle will work...and in the case mentioned, I removed the screws holding the junction box to the wall, rotated it and put the

screws back in.

Reply · Inaccurate · Christopher C on Apr 16, 2020 · Purchased on Mar 31, 2020

Read All 2 Answers · Add Answer · I Have This Question Too (0)

QUESTION: We are located near the ocean, will this rust?

Johanna F on May 6, 2019

ANSWER: Hi - this outdoor wall light is wet location rated and very durable for outside usage, but the finish is

not meant for coastal areas. For resistance to salt-air in coastal environments, you should select a fixture with a "Marine Grade" finish. We have an array of great choices including Vivex, Coastal Armor and more. I have added a helpful link below for some great options which are currently offered. https://www.lampsplus.com/products/outdoor-lighting/usage_wall-light/s_marine-grade/

Reply(1) · Inaccurate · Dan T Staff on May 7, 2019

Read All 3 Answers · Add Answer · I Have This Question Too (0)

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September 7, 2018

over 2 years ago

Michael T

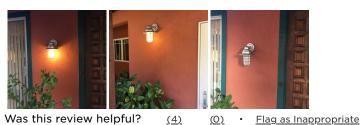
Purchased

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Good quality "Galvanized look" not actually galvanized fixture

I was taken aback at first when I realized that the finish was not really galvanized (zinc plating, neither electroplated or hot-dipped) but the quality of the galvanized-look paint finish was so good, that I was not worried. I was installing five of these and only two would be directly exposed to rain and they were not going to be getting a lot of direct sun. The other three would be under eaves. My only other complaint is the massive amount of blocks of molded EPS (commonly called styrofoam) that I ended up. This should not go into landfills and almost no recycling programs Read More



These are NOT galvanized

While they are described as galvanized, arrived and found they look more like silver camo painted, don't even look like galvanized color. Not what I expected. Otherwise well made.

Was this review helpful? (2) (0) • Flag as Inappropriate

Awesome! I would definitely recommend ordering from lamps plus!

Was this review helpful? (1) (O) • Flag as Inappropriate

November 27, 2017 jenny l

> May 14, 2018 Lori T

Purchased over 2 years ago

Very easy website, got confirmation email Product came quickly

Was this review helpful? (1) (0) • Flag as Inappropriate

December 7, 2017 Sue M

Purchased over 3 years ago

Great Farmhouse Style

Love this light. It was recently featured in Country Living magazine as porch lighting g for a "relaxed" look. It's made very well as it has a glass dome that encases the light and the metal cover fits over the glass. Gives good light coverage for safety.

Was this review helpful? (1) (0) • Flag as Inappropriate

October 11, 2018 Dorothy O

Purchased over 2 years ago

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♠ BACK TO TOP

Memorandum from Charleen Greenhalgh, Interim Town Planner Town of Harwich

AGENDA ITEM III.B.2

December 29, 2020

To: Planning Board

From: Charleen Greenhalgh, Interim Town Planner

Re: Possible Zoning Amendments and other Changes to Rules and Regulations

Other than the changes associated with the West Harwich Special District, there are several additional amendments to zoning and the rules and regulations that the Planning Board may wish to discuss:

Zoning Amendments:

- 1. There will need to be changes made to the Flood Plain Requirements, Article XVII, §325-104 through 108.1. These do not need to be address at the 2021 Annual Town Meeting, but will be required soon after in order to keep the Town of Harwich Community Rating System status in good standing.
- 2. Perhaps a new section regarding erosion control. With the heavier rains that we have been experiencing and erosion control bylaw might be helpful. This could be a new §325-18. It would likely be subparagraph "R" assuming the Attorney General approves the zoning amendments from the September Town Meeting.

Here is an example from another community:

Erosion Control. If the Building Inspector determines that erosion controls are necessary, erosion controls adequate to prevent damage to abutting properties or roadway shall be required for any project, building or structure which will alter in any manner the property in question. Erosion controls shall be adequate to prevent eroded material from entering, or siltation onto abutting properties or roads. Erosion control measures shall be taken prior to the commencement of work and shall remain in place until the disturbed areas have been stabilized permanently.

3. §325-42.L – The MRL and MRL-1 parking setbacks to streets, side and rear lots lines is 50 feet. When the Planning Board amended the zoning bylaws related to Multi-family at the September 2020 Annual Town Meeting, it would appear that amendments to this requirement was inadvertently omitted. It is recommended that the setbacks for parking be changed to a less restrictive setbacks, particularly for multifamily developments. Perhaps for existing improved properties, there could be the allowance for the existing setbacks and unimproved properties another setback.

For example:

- A. On already improved properties, the setbacks for parking shall be established at the time of the site plan review.
- B. For vacant lands to be developed for any purpose, other than single-family, two-family and single-family with accessory apartment, the minimum setbacks for parking shall be 20 feet from the street, and 10 feet from the side and rear property lines.

Rules and Regulations

Back in 2008 the Town of Harwich codified the bylaws within the Town. For some reason the Planning Board's Rules and Regulations ("Rules and Regs"), formally known as Chapter 400 Subdivision of Land and Site Plan Special Permits, was included in the codification. It is not entirely clear as to the reason they were included. Other rules and/or regulations for other Boards/Committees/Commissions are not included in the "Codes". For example the Board of Health Regulations and the Harwich Wetland Regulations (Conservation Commission).

The Planning Board Rules and Regulations need only change with a public hearing notice and a duly held and authorized public hearing. The Rules and Regs should be a document that changes with the times as needed. The Harwich "Codes" are update and printed but once a year. The Rules and Regs should be updated and made available as needed.

The Town Engineer and I have and will continue to work on an update to the Rules and Regulations. Appendix 1, the Rational Method of Drainage Design and other Tables and Figures in Appendices 2 and 3 all are in need updating.

The checklist within Appendix 4 is also in need of corrections and updates.

The Board may also wish to consider changing the abutter notification requirement. Currently the requirement is that the applicant notify the abutters via return receipt certified mail. This is extremely costly and is not required by Massachusetts State Statute or General Laws. As of January 2021 the cost of sending a first class letter via return receipt certified mail will be \$6.96. We recently had an application where there were approximately 85 abutters. The cost as of January would have been \$591.60, just for the mailing.