TOWN OF RAYMOND

Planning Board Agenda
May 5, 2022
7:00 p.m. - Raymond High School
Media Center - 45 Harriman Hill
Application 2021-024 & 2022-001

Public Announcement

*If this meeting is canceled or postponed for any reason the information can be found on our website, posted at Town Hall, Facebook Notification, and RCTV. **

1. **Pledge of Allegiance**

2. **Public Meeting-** ***5:00 PM Site Walk for application 2021-024 Mountain Road Trading Post***

3. **Public Hearing**

Cont. from April 21st.

Application # 2021-024: A SITE PLAN application to include waivers is being submitted by Joseph Coronati of Jones & Beach Engineers, Inc. on behalf of Troy Brown of Loon Lake LLC. They are proposing to add a 1,408 S.F. addition to the back of the Trading Post building. The addition will primarily be used as cold storage/ warehouse space (879 S.F.) with 529 S.F. being heated space. The heated spaced proposed will consist of workshop areas, an office, a breakroom for employees, a public restroom, and a utility room. Property located at 68 Mountain Road and Raymond Tax Map 46 / Lot 9.

Application # 2022-001: A SITE PLAN application is being submitted by John Lorden of Tighe & Bond, Inc. on behalf of Pinard Waste. They are proposing to construct a 30' x 40' metal building, a 1,260-sf office addition, and 10,575 sf proposed addition/overhang for the recycling processing program. Also, to be included with the project, is a small parking area, existing gravel/paved areas to be repaved, site lighting, a truck scale, proposed electrical, and a proposed gravel area for storage. To offset newly paved areas, stormwater treatment practices in the form of infiltration ponds and gravel wetlands are proposed. Property is located at 3 Otter Court and Raymond Tax Map 28-4 / Lot 2.

4. **Approval of Minutes**
   - **03/23/2022 Joint meeting**
   - **04/21/2022**

* Note: If you require personal assistance for audio, visual or other special aid, please contact the Selectmen's Office at least 72 hours prior to the meeting. If this meeting is postponed for any reason, it will be held at a time TBD.

TOWN OF RAYMOND

Planning Board Agenda
May 5, 2022
7:00 p.m. - Raymond High School
Media Center - 45 Harriman Hill
Application 2021-024 & 2022-001

5. Public Comment

6. Other Business

- Staff Updates-
- Board Member Updates
- Any other business brought before the board-

7. Adjournment (NO LATER THAN 10:00 P.M.)

PLANNING BOARD MEETING DATES 2022

Planning Board Meeting Dates	Projects Scheduled
April 21, 2022	MOUNTAIN ROAD, EVERSOURCE
May 05, 2022	PINARD WASTE, MOUNTAIN ROAD
May 12, 2022	Rules & Regulation & MS4 REGS
May 19, 2022	IC REED
June 02, 2022	
June 16, 2022	
July 07, 2022	
July 21, 2022	
August 04, 2022	
August 18, 2022	
September 01, 2022	
September 15, 2022	
October 06, 2022	
October 20, 2022	
November 03, 2022	
November 17, 2022	

* Note: If you require personal assistance for audio, visual or other special aid, please contact the Selectmen's Office at least 72 hours prior to the meeting. If this meeting is postponed for any reason, it will be held at a time TBD.

Mountain Road Trading Post

FW: interpretation of Section 8.3.3.

Paul Hammond <phammond@raymondnh.gov>

Wed 4/27/2022 2:37 PM

To: Christina McCarthy <cmccarthy@raymondnh.gov>

Christina,
Mr. Brown has identified a flaw in what once was a very clear Town Ordinance. The original ordinance as written stated "All new construction of commercial or industrial buildings as well as multi-family dwellings of three or more units shall be sprinklered to NFPA 13 standards". That has been the goal since 1988. Laura Spector-Morgan opined both interpretations were possible. If the Planning Board feels comfortable that legal could defend the Ordinance in Court if needed, I would be inclined to stand behind our Ordinance.

Paul Hammond
Fire Chief, EMD

Phone: 603-895-3321
1 Scribner Road, Raymond NH 03077

TOWN OF RAYMOND

Community Development
Office of Code Enforcement
4 Epping St Raymond, NH 03077
Phone: 603.895.7020 • Fax: 603.895.0903
http://www.raymondnh.gov

April 26, 2022

Planning Board.

Review of the application for an expansion of use for the Mountain Road Trading Post.

I find that the non-conforming use at the Trading Post has been in existence since before June 1993. Under the present Zoning Ordinance Article 2: Section 2.2 Non-conforming use. Sub-Section 2.2.3 Expansion Limits: Expansion of any use by twenty five percent (25%) or more is not permitted. Therefore the proposed expansion of 24.5% is less than 25% and is permitted.

Charlie Smart
Interim Building Inspector

Map # 28-4 Lot # 2

Site Plan Review Application

Town of Raymond, NH

Project Name: Pinard Waste Systems

Location: 3 Otter Court

Project Description: Proposed building expansion for office, recycling operation and storage (see attached letter and plans)

Zone: D New Industrial/Commercial Square Footage: 13,035 or Number of Residential Units:

P1: 1,260 sf (bldg addition) + 1,200 sf (metal bldg)
P2: 7,570 sf (bldg addition/overhang)
P3: 3,005 sf (bldg overhang)

Applicant/Agent Information:

Name: Chuck Huggins, CEO

Phone: 603.623.7933 X1101 Fax: n/a

Company: Pinard Waste Systems

Address: 32 West River Road, Hooksett, NH 03106

By signing this application, you are agreeing to all rules and regulations of the Town of Raymond, and are agreeing to allow agents of the Town of Raymond to conduct inspections of your property during normal business hours to ensure compliance with all Raymond Zoning and Site Plan Review Regulations while your application is under consideration and during any construction and operational phases after approval is granted.

Signed*: _____ Date: 1/5/22

*Requires notarized letter of permission

Owner Information:

Name: Chuck Huggins, CEO

Phone: 603.623.7933 X1101 Fax: n/a

Company: Group Pinard, LLC

Address: 32 West River Road, Hooksett, NH 03106

Signed: _____ Date: _____

Designers of Record: (Provide Name & License Number for each)

Engineer: Tighe & Bond, Portsmouth, NH

Surveyor: Doucet Survey, Inc.

Soil Scientist: n/a

Landscape Architect: n/a

Fire Protection Engineer: n/a

Other(s): _____

FEES: See attached Fee Schedule

For Office Use Only:

Date Application Received: _____ Total Fees Collected w/Application: _____

Abutters List Received: _____ Plans & Checklist Received: _____

Prototypical Building Elevation

ROCKINGHAM PLANNING COMMISSION
theRPC.org

156 Water Street | Exeter, NH 03833
603-778-0885 | www.therpc.org

Memo to: Town of Raymond Community Development Department
Subject: Review of Application 2022-001 Site Plan Application – 3 Otter Court Raymond, NH 03077 (Tax Map 28-4 Lot 2)
From: Madeleine DiIonno, Regional Planner, Rockingham Planning Commission
Date: February 24, 2022

The Rockingham Planning Commission has received and reviewed a Site Plan application submitted by Tighe & Bonde for property located at 3 Otter Court (Tax Map 28-4 Lot 2). The project consists of a proposed 30' x 40' square foot metal building, a 1,260 square foot office addition and 10,575 square foot addition to the recycling processing program. The recycling processing center previously received site plan approval in 2015 but has since lapsed. The site is in the Industrial Zone (Zone D). A recycling processing center is permitted in Zone D by Special Exception, for which the applicant has requested a joint meeting with the Planning Board and Zoning Board of Adjustment. My specific comments are as follows:

1. The applicant should clarify if there will be any storage, handling, or use of regulated substances in quantities exceeding 100 gallons at one time on site, in which case, a conditional use permit is required (ZO 5.2.11).

2. The shape, size, height, and location of the proposed structures, including expansion of existing buildings should be indicated on the plan (SPR 5.03.02).

3. It is recommended that the applicant ensure adequate screening between the proposed use and the abutting residential properties. Identification of a buffer zone of dense planting where the site abuts the zoning boundary should be indicated on the plan (SPR 5.03.06).

4. The proposed landscape plan should be prepared by a New Hampshire Licensed Landscape Architect per SPR 3.03.03.c or a waiver request should be provided.

5. It is recommended that further detail be provided on the proposed sign to ensure compliance with the town's regulations (5.03.08).

6. It is recommended that a Traffic Impact Analysis be prepared by a New Hampshire registered Professional Engineer for the proposed site improvements (SPR 5.03.13).

   Additionally, the applicant should clarify the extent of "limited" versus "normal" trucking operations as noted on Sheet C-102. These trucking operations should be considered in the traffic analysis.

7. Proposed state permits pending for the project, their status, and applicable permit application reference numbers should be indicated on the plan (SPR 5.05.11).

8. It is recommended that a statement be provided on the plan certifying that the proposed development does not violate the rules and regulations of Chapter 485-C,

156 Water Street | Exeter, NH 03833
603-778-0885 | www.therpc.org

Groundwater Protection Act and meets the requirements of Section 5.06 of Site Plan Regulations (Groundwater Protection) (SPR 5.06).

9. A listing of the types and quantities of regulated and hazardous substances and pollutants which may be used on the site should be indicated on the plan if applicable (SPR 5.06.03.e)

10. Increased truck traffic as well as the nature of the expansion will likely result in increased noise levels from engine idling, back-up beepers, the dropping and loading of trash containers, forklifts, excavators, etc., which may increase noise to surrounding properties. It is recommended that the applicant clarify how they intend to mitigate this potential impact.

    Furthermore, the applicant should verify that noise emanation from the building or site, as measured outside of the building at the property line, does not exceed five decibels (dBA) over the existing ambient level per Site Plan Review Regulation 6.12.07.

11. It is recommended the applicant specify the number of employees expected on site during hours of operation and whether employee count is expected to increase with the expansion.

12. It is recommended that the applicant clarify what the proposed gravel storage area on Sheet C-102 will be used for.

Town of Raymond

Memo

To: Planning Board

From: Christina McCarthy, TRC

cc: Pinard Waste

Date: 03/15/2022

Re: Advisory Comments from TRC

. **1.** Verify areas to be paved as talked about in TRC minutes(see below)

Joe Persechino 13:12
So, all of this, whether it's gravel, or pavement is all being treated in this kind of, long, thin gravel wetland, it's just in that buffer before it goes into that.

Glenn Coppleman 13:21
Except that if it's not paved, you've got the possibility of going down into the ground as opposed to be captured by the treatment.

Joe Persechino 13:31
Oh, I see what you're saying. Yeah.

Glenn Coppleman 13:33
And if you're going to be parking, perhaps vehicles, even if it's only temporary, you know, there's always the possibility of fluids and stuff.

Ross Tsantoulis 13:42
Certainly, a consideration doesn't take just because I agree. Also, your long-term maintenance could potentially be less if you have vehicles turning less first need to regrade each area over time.

Joe Persechino 13:55
Certainly, something to consider and we don't have an issue with it.

Tony Belanger 13:58

Like in terms of dollars, it's not high dollars, if it if it helps to not have to go through another process in the future and also the fear of groundwater seepage, then make it part of this plan and get as part of the lower lot.

2. Need updated traffic memo.

3. Need updated/completed drainage report.

4. SPCC Plan- verify there is one in place, submit to Town.

5. Conditional Use Permit- regulated or hazardous substances over 100 gallons(needed ?)

6. Status of the little cistern?

February 9, 2022

Ms. Christina McCarthy
Raymond Community Development
4 Epping Street
Raymond, New Hampshire 03077

Subject: Pinard Waste Systems, Inc.
3 Otter Court, Raymond, NH
Tax Map 28-4 / Lot 2
Engineering Review

Dear Ms. McCarthy:

DuBois & King has completed a technical review of the plans and materials submitted for the above referenced project. The submitted materials consist of the following:

- Site Plan Review Application with Attachments for Pinard Waste Systems, Inc., prepared by Tighe & Bond Engineers / Environmental Specialists, dated January 5, 2022.
- Site Plan Drawings for Pinard Waste Systems, Inc., consisting of 12 sheets, prepared by Tighe & Bond Engineers / Environmental Specialists, dated January 5, 2022.
- Drainage Analysis Report for Pinard Waste Systems, Inc., prepared by prepared by Tighe & Bond Engineers / Environmental Specialists, dated January 5, 2022.

The following were comments noted during the engineering review:

1. **Special Exceptions and Waivers Requests.**

   a. We understand that the Applicant is requesting a Special Exception according to Art. 9 Zoning Board of Adjustment, Section 9.2 Criteria for Special Exemptions to be granted by the Zoning Board of Adjustment, Town of Raymond, NH. The request is for re-approval for the proposed use of a Recycling Processing Center, as allowed within the Industrial Zone by Special Exception.
   b. We understand that the Applicant is requesting a waiver from Site Plan Regulations, Art. III, Section 3.03.03 (a), stating: “A New Hampshire Licensed Surveyor shall prepare, sign and seal the existing conditions plan.”
      We recommend that the Applicant include the original stamped survey prepared by Doucet Survey, dated 2014, referenced in the waiver request, in the revised drawing submission.
   c. We understand that the Applicant is requesting a waiver for the Site Plan Review Checklist Item #17, regarding Copy of certificate from septic designer as to sufficiency of system.
      We recommend that the applicant provide a complete septic design in the next submission, as part of the Site Plan application, for review by the Technical Review Committee.

d. We understand that the Applicant is requesting a waiver from the Site Plan Regulations, Art. III, Section 3.03.03 (d), stating: "Architectural elevations shall be signed or sealed by a New Hampshire Licensed Architect, or a New Hampshire Licensed Professional Engineer, as allowed by the State of New Hampshire professional licensing boards." We recommend that the Applicant submit architectural drawings in the next submission for review by the Technical Review Committee.

2. **Traffic Impact Analysis.** We recommend that the Applicant provide a Traffic Impact Analysis for the proposed site improvements in accordance with Site Plan Regulations 5.03.13.

3. **Existing Conditions Plan, Sheet C-100.**

a. The existing conditions plan scale is 1"=100'. We recommend that the Applicant revise the scale of the plan to be in accordance with Site Plan Regulations 5.02.03 (1"=20' up to 1"=50').
b. We recommend that the Applicant indicates the dimensions and lot area of the existing site in accordance with Site Plan Regulations 5.02.04.
c. We recommend that the Applicant indicates the locations and widths of adjacent streets (i.e. Otter Court, Otter Road), buildings and drives within 200 feet of the site boundaries in accordance with Site Plan Regulations 5.02.06.
d. We recommend that the Applicant revises the plan to indicate the size and height of existing structures located on the site, and within 200 feet of the site boundaries in accordance with Site Plan Regulations 5.02.07.
e. We recommend that the Applicant revises the plan to indicate the size, location, elevation and slope of all existing public and private utilities (i.e. septic tank, propane tank, public water line) in accordance with Site Plan Regulations 5.02.10.
f. We recommend that the applicant add soil types and approximate soil boundaries based on USDA NRCS data, in accordance with Site Plan Regulations 5.02.11.
g. We recommend that the applicant indicates if there are existing covenants, easements and/or rights-of-way on the subject property, in accordance with Site Plan Review Regulations 5.02.12.

4. **Demolition Plan, Sheet C-101.**

a. We recommend that Note 13 is revised to indicate all of the stump disposal requirements stated in Site Plan Regulations 6.13.03.

5. **Site and Utility Plan, Sheet C-102.**

a. We recommend that the Applicant add a note to the plan to indicate any proposed state permits pending for the project, their status, and applicable permit application reference number.
b. We recommend that the Applicant indicates the size and height of the proposed structures, including expansion of existing structures in accordance with Site Plan Regulations 5.03.02 (i.e. Building Overhang – Phase 2).
c. We recommend that the Applicant revise the plan to show indication of direction of travel for drives and indicate the inside radii of all curves in accordance with Site Plan Regulations 5.03.03.

d. We recommend that the Applicant show on the plan any proposed loading spaces in accordance with Site Plan Regulations 5.03.04.
e. We recommend that the Applicant show proposed signs to be located on the site (i.e. traffic, building) in accordance with Site Plan Regulations 5.02.08.
f. We recommend that the Applicant meet with the Fire Department to review the protection activities, in accordance with Site Plan Regulations 6.09.01.

6. Grading, Drainage and Erosion Control Plan, Sheet C-103.

a. We recommend that the Applicant revise the sheet to label the length, slope and invert in and out of the proposed swale on the northeast side of the property.
b. We recommend that the Applicant provide additional spot elevations for the proposed buildings, parking lot and treatment swales to better clarify the intent of grading.
c. We recommend that the Applicant conduct field test pits for each proposed infiltration basin that meets the requirements of Env-Wq 1504.14(f)(2).
d. We recommend that the Applicant revise the legend to represent all line types and hatches used on the plan.
e. We recommend that the applicant revise the plan to provide temporary erosion control matting on all slopes 3H:1V or steeper, and a corresponding detail.
f. Infiltration Basin 2. We recommend that the Applicant provide additional grading detail to identify the top of berm elevation of the infiltration basin.

7. Landscape Plan, Sheet C-104.

a. We recommend that the Applicant provide a landscape plan prepared by a New Hampshire Licensed Landscape Architect in accordance to Site Plan Regulation 3.03.03 (c).

8. Truck Turning Plan, Sheet C-105

a. We recommend that the Applicant revise the plan to provide fire truck turning movements.

9. Details, Sheet C-502

a. We recommend that the Applicant revise the sheet and additional provide rip-rap details for Infiltration Basin 2 and Gravel Wetland Cell #2. We also recommend that the applicant add the dimensions of the proposed rip-rap.
b. We recommend that the Applicant revise the grass-lined swale detail. The proposed width of bottom of swale is labeled as 2', which is not consistent with the drainage analysis. The required width must be between 4' to 8', in accordance with New Hampshire Stormwater Manual, Volume 2.
c. We recommend that the Applicant revise the pavement section notes to include the requirements indicated in the Site Plan Regulations sections 6.07.01, 6.07.02, 6.07.04 and 6.07.05.
d. Infiltration Basin Detail. We recommend that the Applicant expand the detail to show berm construction requirements.

10. pDrainage Analysis Report

a. We recommend that the Applicant revise the treatment swale bottom width on the detail sheet and drainage analysis to be consistent.
b. We recommend that the Applicant use a minimum value of 6 minutes for the Time of Concentration in the drainage analysis.
c. We recommend that the Applicant provide the 25-year storm analysis for review.
d. We recommend that the Applicant revise the design of the gravel wetland to provide a minimum of 1-foot freeboard in the 50-year storm.
e. We recommend that the Applicant provide rip-rap sizing calculations (d_{50} and apron dimensions) for the proposed rip-rap aprons and spillways.

If you have any questions or comments, please do not hesitate to contact us.

Regards.

DuBOIS & KING, Inc.

Ross L Tsantoulis, PE
Project Manager

Section 1 Narrative

The proposed project consists of site improvements to Tax Map 28-4, Lot 2, located at 3 Otter Court in Raymond, NH. Included is a 11,835 S.F. addition to the existing building as well as a 30' x 40' metal building. The existing access to the western portion of the site will be widened and the grades adjusted to provide room for a truck scale. The paved area to the west of the proposed addition will be expanded to provide an area for trucks to turn and back into the new building. The existing paved area that provides access to the eastern portion of the existing building will be adjusted to allow access to the proposed addition. A 90' by 100' gravel storage area will also be added to the northeast of the proposed addition. A paved apron is being added around the proposed metal building to allow for access.

The associated drainage improvements and other miscellaneous site features are also included as part of the project.

The proposed project is located on a previously developed piece of land. It is bounded to the north by Otter Court, to the south and east by Otter Road and to the west by the Lamprey River.

1.1 On-Site Soil Description

The area of the site to be developed is generally flat with the exception of the area just to the west of the existing building which is at a 40% slope. The site slopes gradually, west to the Lamprey River, and east to an on-site wetland. The wetland drains to the Lamprey River at the southwest corner of the site.

An NRCS Web Soil Survey was used for this analysis and has been included in Section 2 of this report. Based on the soil survey, the runoff analyzed within this study has been modeled using the A and B Hydrologic Soil Groups.

1.2 Pre- & Post-Development Flow Comparison

The pre-development and post-development watershed areas have been analyzed at two distinct points of analysis (PA-1 and PA-2). While the points of analysis remained unchanged, their contributing sub-catchment areas were varied between pre-development and post-development conditions. These adjustments were made to reflect the differences in drainage patterns between the existing and proposed conditions. The overall areas analyzed as part of this drainage analysis were held constant. For reference, PA-1 is located adjacent to the Lamprey River and PA-2 is to the North along Otter Court.

The peak discharge rates at the two points of analysis were determined by analyzing Type III 24-hour storm events. The rainfall data for these storm events was obtained from the data published by the Northeast Regional Climate Center at Cornell University.

Table 1.2 | Comparison of Pre- and Post-Development Flows (CFS)

	2-Year Storm	10-Year Storm	50-Year Storm	100-Year Storm
Pre-Development Watershed				
PA-1	4.65	9.94	20.63	27.65
PA-2	0.03	0.30	1.06	1.59
Post-Development Watershed				
PA-1	0.35	4.69	20.47	27.12
PA-2	0.03	0.30	1.00	1.48

1.3 Best Management Practices

All soil erosion and sediment control measures have been designed in accordance with the *NH Stormwater Manual, Volume 3: Erosion and Sediment Controls During Construction*. The intent of the outlined measures is to minimize erosion and sedimentation during construction, stabilize and protect the site from erosion after construction is complete and improve stormwater quality from the site. Best Management Practices for this project include:

- Temporary erosion and sediment control practices to be implemented during construction;
- Permanent stabilization practices to be implemented prior to the completion of construction;
- Stormwater treatment practices including infiltration basins, a treatment swale, and a gravel wetland.

P0692-004
April 18, 2022

Christina McCarthy, Tax Collector
Town of Raymond
4 Epping Street
Raymond, NH 03077

Re: **Pinard Waste Systems, Inc.**
3 Otter Court, Raymond, NH
Tax Map 28-4 / Lot 2
Engineering Review

Dear Ms. McCarthy:

On behalf of our client, Pinard Waste Systems, Inc. we are pleased to submit the following revised information in response to the review comments by DuBois & King, Inc. in the letter dated February 9, 2022 and received on February 10, 2022 for the above-mentioned project:

The following provides responses (in **bold**) to those comments (in *italics*) and plan revisions have been provided. As mentioned in various responses below, a revised drainage analysis will be provided:

Comments:

1. ***Special Exceptions and Waivers Requests.***

    a. *We understand that the Applicant is requesting a Special Exception according to Art. 9 Zoning Board of Adjustment, Section 9.2 Criteria for Special Exemptions to be granted by the Zoning Board of Adjustment, Town of Raymond, NH. The request is for re-approval for the proposed use of a Recycling Processing Center, as allowed within the Industrial Zone by Special Exception.*

    Response: The Special Exception was granted at the March 23, 2022 joint Zoning Board of Adjustment and Planning Board meeting. This granted Special Exception has been listed on the Site Plan.

    b. *We understand that the Applicant is requesting a waiver from Site Plan Regulations, Art. III, Section 3.03.03 (a), stating: "A New Hampshire Licensed Surveyor shall prepare, sign and seal the existing conditions plan." We recommend that the Applicant include the original stamped survey prepared by Doucet Survey, dated 2014, referenced in the waiver request, in the revised drawing submission.*

    Response: A stamped existing conditions plan has been provided, therefore withdrawing the requested waiver and the waiver request list has been updated on the Site Plan.

    c. *We understand that the Applicant is requesting a waiver for the Site Plan Review Checklist Item #17, regarding Copy of certificate from septic designer as to sufficiency of system. We recommend that the applicant provide a complete septic design in the next submission, as part of the Site Plan application, for review by the Technical Review Committee.*

    Response: A complete septic design has been provided, therefore

withdrawing the requested waiver and the waiver request list has been updated on the Site Plan.

d. *We understand that the Applicant is requesting a waiver from the Site Plan Regulations, Art. III, Section 3.03.03 (d), stating: "Architectural elevations shall be signed or sealed by a New Hampshire Licensed Architect, or a New Hampshire Licensed Professional Engineer, as allowed by the State of New Hampshire professional licensing boards."*
Response: A schematic plan set including a First Floor Plan, a Second Floor Plan, Elevations, and Sections have been included, therefore withdrawing the requested waiver and the waiver request list has been updated on the Site Plan.

2. ***Traffic Impact Analysis.***
   a. *We recommend that the Applicant provide a Traffic Impact Analysis for the proposed site improvements in accordance with Site Plan Regulations 5.03.13.*
   Response: A traffic memo is being prepared and will be submitted.

3. ***Existing Conditions Plan, Sheet C-100***

   a. *The existing conditions plan scale is 1"=100'. We recommend that the Applicant revise the scale of the plan to be in accordance with Site Plan Regulations 5.02.03 (1"=20' up to 1"=50').*
   Response: A waiver request has been being submitted to allow for an existing conditions plan at the scale of 1"=100'.
   b. *We recommend that the Applicant indicates the dimensions and lot area of the existing site in accordance with Site Plan Regulations 5.02.04.*
   Response: The lot area of the existing lot has been provided on the Site and Utility Plan within the Site Data table.
   c. *We recommend that the Applicant indicates the locations and widths of adjacent streets (i.e. Otter Court, Otter Road), buildings and drives within 200 feet of the site boundaries in accordance with Site Plan Regulations 5.02.06.*
   Response: The location of the buildings within 200 feet are identified on the Existing Conditions Plan, and the widths of the adjacent streets have been identified on the Site and Utility Plan.
   d. *We recommend that the Applicant revises the plan to indicate the size and height of existing structures located on the site, and within 200 feet of the site boundaries in accordance with Site Plan Regulations 5.02.07.*
   Response: Building heights have been added to the Existing Conditions Plan.
   e. *We recommend that the Applicant revises the plan to indicate the size, location, elevation and slope of all existing public and private utilities (i.e. septic tank, propane tank, public water line) in accordance with Site Plan Regulations 5.02.10.*
   Response: The location and sizes of utilities have been shown on the Site and Utility Plan.
   f. *We recommend that the applicant add soil types and approximate soil boundaries based on USDA NRCS data, in accordance with Site Plan Regulations 5.02.11.*
   Response: The soil boundaries, based on USDA NRCS data, are located on the Pre-and Post- Watershed Plans, Sheets C-801 and C-802 respectively.

g. *We recommend that the applicant indicates if there are existing covenants, easements and/or rights-of-way on the subject property, in accordance with Site Plan Review Regulations 5.02.12.*
Response: There are no known covenants, easements, or rights-of-way on the property.

4. Demolition Plan, Sheet C-101

a. *We recommend that Note 13 is revised to indicate all of the stump disposal requirements stated in Site Plan Regulations 6.13.03.*
Response: Note 13 has been revised to include provisions for stumps, rubble and brush.

5. Site and Utility Plan, Sheet C-102

a. *We recommend that the Applicant add a note to the plan to indicate any proposed state permits pending for the project, their status, and applicable permit application reference number.*
Response: The list of Permits has been updated on the Cover Sheet.
b. *We recommend that the Applicant indicates the size and height of the proposed structures, including expansion of existing structures in accordance with Site Plan Regulations 5.03.02 (i.e. Building Overhang – Phase 2).*
Response: Additional dimensions have been provided to better indicate the size of the proposed additions, including the overhangs. The proposed height of the Phase 1 addition is 12' and the proposed height of the phase 2 buildings are to match the existing structure.
c. *We recommend that the Applicant revise the plan to show indication of direction of travel for drives and indicate the inside radii of all curves in accordance with Site Plan Regulations 5.03.03.*
Response: The direction of travel has been shown graphically on Truck Turning Plan.
d. *We recommend that the Applicant show on the plan any proposed loading spaces in accordance with Site Plan Regulations 5.03.04.*
Response: Loading spaces have been added to the plan on the Phase 2 portion on the proposed addition.
e. *We recommend that the Applicant show proposed signs to be located on the site (i.e. traffic, building) in accordance with Site Plan Regulations 5.02.08.*
Response: Signage will be included with the plans.
f. *We recommend that the Applicant meet with the Fire Department to review the protection activities, in accordance with Site Plan Regulations 6.09.01.*
Response: The fire department was present at the technical review meeting on March 15, 2022 and did not express concerns for the site improvements.

6. Grading, Drainage and Erosion Control Plan, Sheet C-103

a. *We recommend that the Applicant revise the sheet to label the length, slope and invert in and out of the proposed swale on the northeast side of the property.*

Response: The grass-lined swale has been labeled and inverts identified.

b. *We recommend that the Applicant provide additional spot elevations for the proposed buildings, parking lot and treatment swales to better clarify the intent of grading.*
Response: Spot elevation have been shown to clarify intent of proposed grading.

c. *We recommend that the Applicant conduct field test pits for each proposed infiltration basin that meets the requirements of Env-Wq 1504.14(f)(2).*
Response: Test pits and infiltration tests are being coordinated and will be submitted once complete.

d. *We recommend that the Applicant revise the legend to represent all line types and hatches used on the plan.*
Response: The legend has been updated.

e. *We recommend that the applicant revise the plan to provide temporary erosion control matting on all slopes 3H:1V or steeper, and a corresponding detail.*
Response: An erosion control blanket has been added to the Erosion Control Notes and Details Plan with a note to be installed where slopes are greater than or equal to 3:1.

f. *Infiltration Basin 2. We recommend that the Applicant provide additional grading detail to identify the top of berm elevation of the infiltration basin.*
Response: Spot elevations have been shown.

7. Landscape Plan, Sheet C-104

a. *We recommend that the Applicant provide a landscape plan prepared by a New*
b. *Hampshire Licensed Landscape Architect in accordance to Site Plan Regulation 3.03.03(c).*
Response: The Landscape Plan has been stamped.

8. Truck Turning Plan, Sheet C-105

a. *We recommend that the Applicant revise the plan to provide fire truck turning movements.*
Response: A fire truck path through the site has been shown on the Truck Turning Plan.

9. Details, Sheet C-502

a. *We recommend that the Applicant revise the sheet and additional provide rip-rap details for Infiltration Basin 2 and Gravel Wetland Cell #2. We also recommend that the applicant add the dimensions of the proposed rip-rap.*
Response: The Rip-Rap Spillway detail has been revised to provide details for Infiltration Basin #2 and an additional Rip-Rap Spillway detail has been provided for Cell #2 of the gravel wetland. Also, dimension have been added to the Grading, Drainage, and Erosion Control Plan.

b. *We recommend that the Applicant revise the grass-lined swale detail. The proposed width of bottom of swale is labeled as 2', which is not consistent with the drainage analysis. The required width must be between 4' to 8', in*

accordance with New Hampshire Stormwater Manual, Volume 2.
Response: The Grassed-Lined Swale detail has been updated to show a 8' wide bottom.

c. *We recommend that the Applicant revise the pavement section notes to include the requirements indicated in the Site Plan Regulations sections 6.07.01, 6.07.02, 6.07.04and 6.07.05.*
Response: Notes 4, 5, and 6 have been added to the Pavement Section detail to conform with the Site Plan Regulations.

d. *Infiltration Basin Detail. We recommend that the Applicant expand the detail to showberm construction requirements.*
Response: The Infiltration Basin detail has been updated to show the berm.

10.Drainage Analysis Report

a. *We recommend that the Applicant revise the treatment swale bottom width on the detailsheet and drainage analysis to be consistent.*
Response: The Grass-Lined Swale detail has been revised to correspond to the drainage analysis.

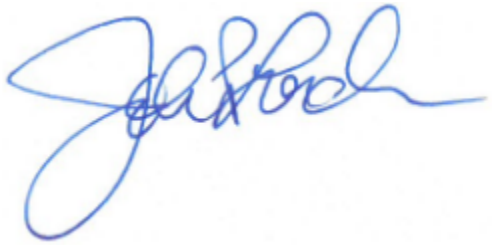
b. *We recommend that the Applicant use a minimum value of 6 minutes for the Time ofConcentration in the drainage analysis.*
Response: The Time of Concentration will be updated in the revised drainage analysis.

c. *We recommend that the Applicant provide the 25-year storm analysis for review.*
Response: The 25-year storm will be provided in the revised drainage analysis.

d. *We recommend that the Applicant revise the design of the gravel wetland to provide aminimum of 1-foot freeboard in the 50-year storm.*
Response: We will revise to provide as much freeboard as possible, with the goal being one foot.

e. *We recommend that the Applicant provide rip-rap sizing calculations (d_{50} and apron dimensions) for the proposed rip-rap aprons and spillways.*
Response: Rip-rap sizing calculations will be provided in the revised drainage analysis.

Very truly yours,
TIGHE & BOND, INC.



John P. Lorden, PE
Project Manager II

Enclosures
Copy: Ross L Tsantoulis, PE - DuBOIS & KING, Inc.
Chuck Huggins, Pinard Waste, via email

Raymond NH Planning Board Waiver Request Form

Applicable to Site Plan Review and Subdivision Regulations

Project Name & Application Number:

Regulation, Article & Section from which a waiver is being sought:

Site Plan Review Regulations, Article III, Section 5.02.03
A plan with the scale of 1"=20' up to 1" = 50'

Where the Planning Board finds that unnecessary hardship may result from strict compliance with these regulations with respect to a particular tract of land, the Board may modify or waive these regulations so that substantial justice may be done and the public interest is secured, provided that:

Please respond to the criteria below:

a. Explain how the granting of the waiver will not be detrimental to public safety, health, or welfare or injurious to other adjacent property;

In effort to graphically show the entire site along with structures within 200' of the property a plan at scale of 1" = 100' is necessary. The granting of this waiver will not be detrimental to public safety, health, or welfare or injurious to other adjacent properties.

b. Explain how granting this waiver shall not have the effect of nullifying the intent and purpose of these regulations, the Zoning Ordinance, Master Plan or Official Zoning Map;

Our understanding is that the purpose of this regulation is to verify that boundaries, setbacks, topography, and site features are depicted accurately on a plan used for design. The Existing Conditions Plan included in the plan set meets those requirements and shall not have the effect of nullifying the intent and purpose of the Site Plan Review Regulations, the Zoning Ordinance, Master Plan, or Official Zoning Map.

In granting waivers, the Planning Board may require such conditions as will, in the Board's judgment, secure substantially the objectives of the standards or requirements of these regulations.

A petition for waiver shall be submitted by the applicant at the time when the application is filed for consideration by the Planning Board. All petitions shall be made in writing using the Town's Waiver Request Form. The petition shall state fully the grounds for the waiver and all of the facts relied upon by the petitioner.

Any granted waivers must be noted on the final approved plan.

COMPLIANCE SOUND MONITORING STUDY FOR THE PINARD WASTE SYSTEMS FACILITY – RAYMOND, NH

January 2017

TECH environmental
FOCUSED KNOWLEDGE. REAL SOLUTIONS.

COMPLIANCE SOUND MONITORING STUDY FOR THE PINARD WASTE SYSTEMS FACILITY RAYMOND, NH

Prepared for:

Pinard Waste Systems, Inc.
PO Box 5048
Manchester, NH 03108

Prepared by:

Tech Environmental, Inc.
303 Wyman Street, Suite 295
Waltham, MA 02451

January 26, 2017

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY

Tech Environmental Inc, (Tech) performed a compliance sound monitoring study for Pinard Waste Systems, Inc., a solid waste recycling facility located at 3 Otter Court in Raymond, NH. The facility performs maintenance on an existing truck fleet, repairs roll-off dumpsters, and processes waste materials. The facility operates from 3:00 a.m to 11:00 pm, but the majority of the vehicles accessing the site occur between 6:00 a.m. and 6:00 p.m. The facility is planning to expand operations, which will result in up to 60 truck trips per day, an expanded maintenance facility capable of housing up to 12 vehicles at a time, and the ability to process 25,000 tons/year or more of material. The results of the compliance sound monitoring were compared to the existing sound levels measured during the ambient sound level monitoring, which was completed in September of 2016.

Sound levels during facility operating hours were measured at the eastern side of the site property boundary at the same location where a long term sound meter was placed during the ambient sound study (Location #1), and at a second location representing a residential abutter to the northeast (Location #2). 10-second sound levels were measured at these two locations simultaneously. Each location was manned by Tech acoustic technicians who took detailed notes of all sound sources heard during the quietest hours of the morning (3:00 a.m. through 8:00 a.m). Loud sounds not associated with the Pinard Waste facility were flagged for exclusion from the measurements. After monitoring was completed, the uncontaminated 10-second measurements were combined into 10-minute sound levels in order to compare them to the existing background sound levels to ensure the facility was in compliance with the Town of Raymond noise limits. The study's conclusions are as follows:

- 10-minute uncontaminated L_{EQ} sound levels at Location #1 range from 40.6 dBA to 49.4 dBA and are below the allowable 5 dBA increase over ambient for all hours of the monitoring.
- 10-minute uncontaminated L_{EQ} sound levels at Location #2 range from 45.4 to 50.8 and are below the allowable 5 dBA increase over ambient for all hours of the monitoring.
- Based on the measured sound levels, the current Pinard Waste Systems operations are in compliance with the Town of Raymond noise limits.

2.0 COMMON MEASURES OF COMMUNITY SOUND

All sounds originate with a source – a human voice, vehicles on a roadway, or an airplane overhead. The sound energy moves from the source to a person's ears as sound waves, which are minute variations in air pressure. The loudness of a sound depends on the **sound pressure level**[1], which has units of decibel (dB). The **decibel scale** is logarithmic to accommodate the wide range of sound intensities to which the human ear is subjected. On this scale, the quietest sound we can hear is 0 dB, while the loudest is 120 dB. Every 10-dB increase is perceived as a doubling of loudness. Most sounds we hear in our daily lives have sound pressure levels in the range of 30 dB to 85 dB.

A property of the decibel scale is that the numerical values of two separate sounds do not directly add. For example, if a sound of 70 dB is added to another sound of 70 dB, the total is only a 3-decibel increase (or 73 dB) on the decibel scale, not a doubling to 140 dB. In terms of sound perception, 3 dB is the minimum change most people can detect. In terms of the human perception of sound, a halving or doubling of loudness requires changes in the sound pressure level of about 10 dB; 3 dB is the minimum perceptible change for **broadband** sounds, i.e. sounds that include all frequencies. Table 1 below gives the perceived change in loudness of different changes in sound pressure levels.[2] The existing sound levels at the Pinard Waste facility are determined primarily by maintenance equipment, trucks, and exhaust fans. Typical sound levels associated with various activities and environments are presented in Table 2 (see below).

TABLE 1

SUBJECTIVE EFFECT OF CHANGES IN SOUND PRESSURE LEVELS

CHANGE IN SOUND LEVEL	APPARENT CHANGE IN LOUDNESS
3 dB	Just perceptible
5 dB	Noticeable
10 dB	Twice (or half) as loud

[1] The sound pressure level is defined as $20*\log_{10}(P/P_o)$ where P is the sound pressure and P_o is the reference pressure of 20 micro-Pascals (20 μPa), which by definition corresponds to 0 dB.

[2] American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc., 1989 ASHRAE Handbook--Fundamentals (I-P) Edition, Atlanta, GA, 1989.

Non-steady noise exposure in a community is commonly expressed in terms of the A-weighted sound level (dBA); A-weighting approximates the frequency response of the human ear. Levels of many sounds change from moment to moment. Some are sharp impulses lasting 1 second or less, while others rise and fall over much longer periods of time. There are various measures of sound pressure designed for different purposes. The $\mathbf{L_{EQ}}$, or equivalent sound level, is the steady-state sound level over a period of time that has the same acoustic energy as the fluctuating sounds that actually occurred during that same period. It is commonly referred to as the average sound level.

TABLE 2

VARIOUS INDOOR AND OUTDOOR SOUND LEVELS

Outdoor Sound Levels	Sound Pressure (μPa)		Sound Level (dBA)	Indoor Sound Levels
	6,324,555	-	110	Rock Band at 5 m
Jet Over-Flight at 300 m		-	105	
	2,000,000	-	100	Inside New York Subway Train
Gas Lawn Mower at 1 m		-	95	
	632,456	-	90	Food Blender at 1 m
Diesel Truck at 15 m		-	85	
Noisy Urban Area--Daytime	200,000	-	80	Garbage Disposal at 1 m
		-	75	Shouting at 1 m
Gas Lawn Mower at 30 m	63,246	-	70	Vacuum Cleaner at 3 m
Suburban Commercial Area		-	65	Normal Speech at 1 m
Quiet Urban Area -- Daytime	20,000	-	60	
		-	55	Quiet Conversation at 1m
Quiet Urban Area--Nighttime	6,325	-	50	Dishwasher Next Room
		-	45	
Suburban Area--Nighttime	2,000	-	40	Empty Theater or Library
		-	35	
Rural Area--Nighttime	632	-	30	Quiet Bedroom at Night
		-	25	Empty Concert Hall
Rustling Leaves	200	-	20	Average Whisper
		-	15	Broadcast and Recording Studios
	63	-	10	
		-	5	Human Breathing
Reference Pressure Level	20	-	0	Threshold of Hearing

Notes:
μPa - Micropascals describe sound pressure levels (force/area).
dBA - A-weighted decibels describe sound pressure on a logarithmic scale with respect to 20 μPa.

3.0 APPLICABLE NOISE REGULATIONS

The Town of Raymond Site Plan Review Regulations (as amended March 6, 2012) regulates noise under two sections of the regulations. Article IV, Section 4.002 states that "*In reviewing site plans, the Planning Board shall take into consideration the Master Plan, including the Open Space Plan, the public health, safety and general welfare, the comfort and convenience of the general public, and as a condition of approval may require such modifications of the proposed site plan as it deems necessary to comply with the spirit as well as the letter of these Regulations.* It goes on to say under Clause 2f that "*The protection of residential abutters against public health and safety concerns, including but not limited to groundwater contamination, undue noise, glare, unsightliness or other nuisance detrimental to property value."* This clause does not provide a definition of undue noise.

However, noise level limits have been established under Article VI, Section 6.012, Clause 07, Noise Levels. The regulations states that *noise emanation from the building or site, as measured outside of the building at the property line, shall at no time exceed five decibels (dBA) over the existing ambient level.* Since the ambient level is not defined in the regulation, Tech will use the equivalent (L_{EQ}) sound metric to characterize ambient sound conditions.

Compliance with the noise limit under Section 6.012, Clause 07 satisfies the requirement of not causing undue noise for residential abutters in Section 4.002.

4.0 AMBIENT SOUND LEVEL MEASUREMENTS

A complete ambient sound study was completed and results were presented in a letter report dated October 7, 2016[3].

Results of the study reveal that existing ambient sound levels at the property line location ranged from 41.0 dBA to 62.1 dBA for the 10-day monitoring period. Table 3 below presents the calculated average hourly ambient sound levels and the 5 dBA over ambient limit for each hour that the facility operates.

TABLE 3

EXISTING ONE-HOUR LEQ SOUND LEVELS AND TOWN NOISE LIMITS AT PINARD WASTE SYSTEMS PROPERTY LINE SEPTEMBER 19 – SEPTEMBER 28, 2016

Hour	9/19	9/20	9/21	9/22	9/23	9/24	9/25*	9/26	9/27	9/28	Avg	Limit
3:00 AM		49.9	46.5	45.4	45.2	41.0	39.0	42.4	44.7	42.3	45.0	**50.0**
4:00 AM		52.4	48.6	49.7	50.5	50.2	50.9	48.7	51.9	44.4	50.3	**55.3**
5:00 AM		51.4	49.3	50.3	51.5	44.9	40.9	51.0	59.1		51.1	**56.1**
6:00 AM		50.1	50.7	52.8	52.9	46.9	45.4	51.2	58.1		51.8	**56.8**
7:00 AM		49.4	52.9	55.6	53.4	47.8	47.0	51.7	53.1		52.0	**57.0**
8:00 AM		51.0	54.2	51.5	50.8	49.4	49.8	50.8	54.8		51.8	**56.8**
9:00 AM		50.1	48.9	49.4	49.6	48.3	49.3	51.4	50.4		49.7	**54.7**
10:00 AM		48.3	56.3	57.4	51.1	49.8	53.1	49.4	51.4		52.0	**57.0**
11:00 AM		51.1	50.8	49.8	50.0	52.0	53.8	49.3	51.0		50.6	**55.6**
12:00 PM	50.1	49.0	48.9	49.8	50.7	52.9	54.7	47.7	48.0		49.6	**54.6**
1:00 PM	48.1	50.5	48.5	52.1	48.9	49.1	54.2	49.2	50.4		49.6	**54.6**
2:00 PM	51.6	52.2	50.6	61.9	51.6	50.5	53.8	50.1	49.4		52.2	**57.2**
3:00 PM	53.2	53.4	52.8	54.3	50.9	51.9	51.8	52.2	50.0		52.3	**57.3**
4:00 PM	52.5	52.2	51.6	60.3	50.6	50.0	50.7	52.3	50.2		52.4	**57.4**
5:00 PM	50.8	52.6	52.1	55.9	49.3	50.3	62.1	52.2	52.4		51.9	**56.9**
6:00 PM	49.4	52.7	53.5	51.0	49.1	49.6	60.3	51.8	53.3		51.3	**56.3**

*****Sound levels from 9/25 were not included in averaging because the facility does not operate on Sundays.

[3] Pinard Waste Systems, Inc., Raymond, NH – Ambient Sound Study October 7, 2016

5.0 COMPLIANCE SOUND LEVEL MONITORING

Tech acoustic technicians performed attended sound measurements at two locations on Thursday, January 19th from approximately 3:00 a.m. until 8:00 a.m. Location #1 was a along the site's eastern property line where the long term meter was located during the ambient sound study. Location #2 was at the nearest residence on Otter Road to the northeast of the facility. Locations where the sound monitoring was performed is shown in Figure 1.

The sound analyzers (Larson Davis 831s) were programmed to collect both 10-minute and 10-second L_{EQ} sound levels (broadband and whole octave bands) over the five-hour attended monitoring period. Both of the sound analyzers used for this study are Type 1 (ANSI) high precision instruments and were calibrated on-site prior to and immediately following each measurement. The sound analyzers were both equipped with ½" precision condenser microphones mounted approximately five feet above grade and protected with a 7 inch ACO Pacific windscreen.

Weather conditions were conducive for accurate sound level measurements during the quietest nighttime hours. Temperatures were very steady between 30°F and 31°F, skies were overcast, and the wind was primarily calm with an occasional light wind from the southerly direction.

Detailed notes of observed sound sources were logged during the attended monitoring to ensure that intrusive sounds not associated with the facility operations were excluded. Local traffic, airplanes overhead, and other intrusive sounds were noted and discarded before combining the remaining measurements into 10-minute L_{EQ} sound levels. These uncontaminated 10-minute sound levels were then compared to the existing sound levels established for each hour of early morning operations. The highest calculated 10-minute sound levels during facility operating hours at each location for each hour is presented in Table 4 below. A complete record of all the 10-second sound levels along with associated field notes are included in Appendix A.

During the 3:00 a.m. hour, the maximum 10-minute sound level at Location #1 was 40.6 dBA, and the maximum 10-minute sound level at Location #2 was 45.9 dBA. During the 4:00 a.m. hour, the maximum 10-minute sound level at Location #1 was 41.5 dBA, and the maximum 10-minute sound level at Location #2 was 45.4 dBA. During the 5:00 a.m. hour, the maximum 10-minute sound level

Figure 1
Sound Monitoring Locations
Pinard Waste Systems
Raymond, NH

TECH environmental
FOCUSED KNOWLEDGE. REAL SOLUTIONS.

at Location #1 was 44.8 dBA, and the maximum 10-minute sound level at Location #2 was 49.8 dBA. During the 6:00 a.m. hour, the maximum 10-minute sound level at Location #1 was 49.4 dBA, and the maximum 10-minute sound level at Location #2 was 50.8 dBA. During the 7:00 a.m. hour, the maximum 10-minute sound level at Location #1 was 48.7 dBA, and the maximum 10-minute sound level at Location #2 was 50.8 dBA. The results of the attended monitoring at the nearest property line and residence indicate that sound levels from the Pinard Waste Systems facility are in compliance with the Town of Raymond limits.

TABLE 4

MAXIMUM CALCULATED TEN-MINUTE LEQ SOUND LEVELS
NEAR PINARD WASTE SYSTEMS PROPERTY LINE
JANUARY 19, 2017

Hour	Location #1	Location #2	Limit	Complies?
3:00 AM	40.6	45.9	50.0	**Yes**
4:00 AM	41.5	45.4	55.3	**Yes**
5:00 AM	44.8	49.8	56.1	**Yes**
6:00 AM	49.4	50.8	56.8	**Yes**
7:00 AM	48.7	50.8	57.0	**Yes**

6.0 CONCLUSIONS

A compliance sound monitoring study was performed for Pinard Waste Systems, Inc., a solid waste recycling facility located in Raymond, NH. Attended sound level measurements were performed at two locations near the facility property line during the early morning hours when ambient sound levels were at their lowest. 10-second sound levels were logged, and loud sounds not associated with the Pinard Waste facility were flagged for exclusion from the measurements. After monitoring was completed, the uncontaminated 10-second measurements were combined into 10-minute sound levels and compared to the existing background sound levels. The highest calculated 10-minute sound levels for each hour of facility operations were then compared to the Town of Raymond noise limits. Sound levels from the facility were found to be in compliance with the Town noise limits during all hours of the monitoring.

APPENDIX A

SOUND MONITORING DATA

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	3:06:50	52.7		Operator Noise	
Jan-17	3:07:00	50.3		Operator Noise	
Jan-17	3:07:10	52.4		Operator Noise	
Jan-17	3:07:20	49.7		Operator Noise	
Jan-17	3:07:30	44.0			
Jan-17	3:07:40	35.2			
Jan-17	3:07:50	36.0			
Jan-17	3:08:00	37.8			
Jan-17	3:08:10	35.0			
Jan-17	3:08:20	37.6			
Jan-17	3:08:30	37.6			
Jan-17	3:08:40	38.3			
Jan-17	3:08:50	33.5			
Jan-17	3:09:00	35.1			
Jan-17	3:09:10	42.8			
Jan-17	3:09:20	38.1			
Jan-17	3:09:30	35.7			
Jan-17	3:09:40	37.0			
Jan-17	3:09:50	41.5			

Meter setup and calibration

Location #1 L_{AEQ}	Location #2 L_{AEQ}
38.8	**-**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	3:10:00	42.6	45.2		Operator Noise
Jan-17	3:10:10	42.7	53.0		Operator Noise
Jan-17	3:10:20	37.9	51.9		Operator Noise
Jan-17	3:10:30	36.6	54.9		Operator Noise
Jan-17	3:10:40	37.8	45.2		
Jan-17	3:10:50	44.2	46.1		
Jan-17	3:11:00	36.7	31.3		
Jan-17	3:11:10	35.8	49.7		
Jan-17	3:11:20	43.5	44.6		
Jan-17	3:11:30	47.8	43.2		
Jan-17	3:11:40	38.5	59.5		Traffic Noise
Jan-17	3:11:50	38.8	41.7	Pinard Waste Activity	Pinard Waste Activity
Jan-17	3:12:00	38.2	40.8	Pinard Waste Activity	Pinard Waste Activity
Jan-17	3:12:10	38.3	35.9	Pinard Waste Activity	Pinard Waste Activity
Jan-17	3:12:20	38.4	35.6	Pinard Waste Activity	Pinard Waste Activity
Jan-17	3:12:30	40.4	35.7	Pinard Waste Activity	Pinard Waste Activity
Jan-17	3:12:40	38.4	35.5	Pinard Waste Activity	Pinard Waste Activity
Jan-17	3:12:50	38.4	37.7	Pinard Waste Activity	Pinard Waste Activity
Jan-17	3:13:00	38.7	44.4	Pinard Waste Activity	
Jan-17	3:13:10	43.2	60.4	Pinard Waste Activity	Car
Jan-17	3:13:20	41.3	44.8	Pinard Waste Activity	Car
Jan-17	3:13:30	39.2	43.3	Pinard Waste Activity	Car
Jan-17	3:13:40	42.2	37.5	Pinard Waste Activity	Car
Jan-17	3:13:50	45.5	33.9		
Jan-17	3:14:00	41.4	34.1		
Jan-17	3:14:10	41.7	46.0		Operator Noise
Jan-17	3:14:20	39.0	46.6		Operator Noise
Jan-17	3:14:30	39.4	43.2	Pinard Waste Activity	
Jan-17	3:14:40	40.2	39.5	Pinard Waste Activity	
Jan-17	3:14:50	38.1	49.0	Pinard Waste Activity	
Jan-17	3:15:00	38.2	38.8	Pinard Waste Activity	
Jan-17	3:15:10	49.0	40.9	Pinard Waste Activity	
Jan-17	3:15:20	41.1	38.6	Pinard Waste Activity	
Jan-17	3:15:30	33.4	38.5		
Jan-17	3:15:40	33.4	38.7		
Jan-17	3:15:50	36.6	36.7		
Jan-17	3:16:00	35.0	35.1	Pinard Waste Activity	
Jan-17	3:16:10	34.5	34.1	Pinard Waste Activity	
Jan-17	3:16:20	36.1	44.8	Pinard Waste Activity	
Jan-17	3:16:30	39.2	42.6	Pinard Waste Activity	
Jan-17	3:16:40	36.8	32.0	Pinard Waste Activity	
Jan-17	3:16:50	35.3	30.3		
Jan-17	3:17:00	35.2	32.4		
Jan-17	3:17:10	38.1	37.2		
Jan-17	3:17:20	41.8	38.1		
Jan-17	3:17:30	36.6	34.6	Pinard Waste Activity	
Jan-17	3:17:40	40.8	38.9	Pinard Waste Activity	
Jan-17	3:17:50	40.3	45.4	Pinard Waste Activity	
Jan-17	3:18:00	43.1	51.7	Pinard Waste Activity	Pinard Waste Activity
Jan-17	3:18:10	43.2	51.1	Pinard Waste Activity	Pinard Waste Activity
Jan-17	3:18:20	32.0	39.6		
Jan-17	3:18:30	35.1	43.6		
Jan-17	3:18:40	34.9	44.2		
Jan-17	3:18:50	35.0	42.8		
Jan-17	3:19:00	39.7	50.2	Pinard Waste Activity	
Jan-17	3:19:10	32.6	46.2	Pinard Waste Activity	
Jan-17	3:19:20	31.5	40.4		
Jan-17	3:19:30	44.0	48.8	Pinard Waste Activity	
Jan-17	3:19:40	42.2	56.3	Pinard Waste Activity	
Jan-17	3:19:50	38.8	46.9	Pinard Waste Activity	

Location #1 L_{AEQ}	Location #2 L_{AEQ}
40.6	**45.2**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	3:20:00	46.2	50.6	Pinard Waste Activity	
Jan-17	3:20:10	41.0	46.2	Pinard Waste Activity	
Jan-17	3:20:20	35.9	39.6	Pinard Waste Activity	
Jan-17	3:20:30	34.0	36.4		
Jan-17	3:20:40	39.5	34.4		
Jan-17	3:20:50	43.1	36.0		
Jan-17	3:21:00	39.7	36.7		
Jan-17	3:21:10	32.9	39.3		
Jan-17	3:21:20	32.0	38.7		
Jan-17	3:21:30	36.6	48.6		
Jan-17	3:21:40	41.1	46.9		
Jan-17	3:21:50	42.2	34.4		
Jan-17	3:22:00	29.1	27.9		
Jan-17	3:22:10	35.1	30.4		
Jan-17	3:22:20	33.5	28.7		
Jan-17	3:22:30	26.1	29.2		
Jan-17	3:22:40	33.8	35.0		
Jan-17	3:22:50	45.8	39.4		
Jan-17	3:23:00	38.0	43.3		
Jan-17	3:23:10	37.9	36.4		
Jan-17	3:23:20	38.7	31.5		
Jan-17	3:23:30	37.7	32.5		
Jan-17	3:23:40	40.0	33.2		
Jan-17	3:23:50	37.6	32.9		
Jan-17	3:24:00	34.3	33.6		
Jan-17	3:24:10	32.2	33.2		
Jan-17	3:24:20	35.0	32.9		
Jan-17	3:24:30	39.0	34.1		
Jan-17	3:24:40	30.5	31.9		
Jan-17	3:24:50	34.8	36.7		
Jan-17	3:25:00	36.3	46.1		
Jan-17	3:25:10	38.6	52.7		
Jan-17	3:25:20	36.3	37.6		
Jan-17	3:25:30	39.6	41.7		
Jan-17	3:25:40	37.5	36.7		
Jan-17	3:25:50	37.0	34.2		
Jan-17	3:26:00	32.6	33.0		
Jan-17	3:26:10	37.9	32.3		
Jan-17	3:26:20	40.8	31.7		
Jan-17	3:26:30	49.5	34.2		
Jan-17	3:26:40	43.5	42.4		
Jan-17	3:26:50	42.9	44.6		Car
Jan-17	3:27:00	40.4	61.4		Car
Jan-17	3:27:10	58.3	42.5	Car	Car
Jan-17	3:27:20	50.1	28.8	Car	
Jan-17	3:27:30	46.0	29.5	Car	
Jan-17	3:27:40	34.2	29.6	Car	
Jan-17	3:27:50	35.9	29.9	Car	
Jan-17	3:28:00	32.2	30.4	Car	
Jan-17	3:28:10	37.1	28.7	Car	
Jan-17	3:28:20	60.5	28.8	Car	
Jan-17	3:28:30	53.8	44.6	Car	
Jan-17	3:28:40	32.9	61.7		
Jan-17	3:28:50	31.7	44.9		
Jan-17	3:29:00	34.2	33.0		
Jan-17	3:29:10	38.5	31.6		
Jan-17	3:29:20	35.8	31.4		
Jan-17	3:29:30	30.7	27.8		
Jan-17	3:29:40	33.5	26.7		
Jan-17	3:29:50	36.0	28.4		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
39.6	**45.9**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	3:30:00	48.6	28.2		
Jan-17	3:30:10	36.3	27.9		
Jan-17	3:30:20	37.4	30.3		
Jan-17	3:30:30	43.2	32.2		
Jan-17	3:30:40	41.4	30.0		
Jan-17	3:30:50	42.6	28.9		
Jan-17	3:31:00	42.7	30.0		
Jan-17	3:31:10	39.6	37.4		
Jan-17	3:31:20	36.9	43.4		
Jan-17	3:31:30	44.2	33.0		
Jan-17	3:31:40	35.1	31.6		
Jan-17	3:31:50	40.4	33.3		
Jan-17	3:32:00	39.4	31.2		
Jan-17	3:32:10	38.0	31.3		
Jan-17	3:32:20	49.1	32.7	Operator Noise	
Jan-17	3:32:30	47.7	30.7	Operator Noise	
Jan-17	3:32:40	51.3	30.4	Operator Noise	
Jan-17	3:32:50	44.3	39.2	Operator Noise	
Jan-17	3:33:00	50.5	34.4	Operator Noise	
Jan-17	3:33:10	34.5	31.8		
Jan-17	3:33:20	37.8	31.5		
Jan-17	3:33:30	36.0	28.9		
Jan-17	3:33:40	26.9	26.2		
Jan-17	3:33:50	25.2	24.7		
Jan-17	3:34:00	24.7	28.3		
Jan-17	3:34:10	34.1	45.0		
Jan-17	3:34:20	38.4	47.4		
Jan-17	3:34:30	34.0	31.0		
Jan-17	3:34:40	27.5	27.4		
Jan-17	3:34:50	32.9	27.1		
Jan-17	3:35:00	29.0	24.8		
Jan-17	3:35:10	34.8	30.0		
Jan-17	3:35:20	37.4	34.4		
Jan-17	3:35:30	42.0	35.9		
Jan-17	3:35:40	34.7	34.3		
Jan-17	3:35:50	39.4	35.4		
Jan-17	3:36:00	41.1	36.6		
Jan-17	3:36:10	37.2	33.4		
Jan-17	3:36:20	36.8	34.2		
Jan-17	3:36:30	37.2	48.3		
Jan-17	3:36:40	38.2	44.8		
Jan-17	3:36:50	34.1	35.6		
Jan-17	3:37:00	32.5	39.7		
Jan-17	3:37:10	33.2	44.2		
Jan-17	3:37:20	33.9	38.9		
Jan-17	3:37:30	33.7	43.5		
Jan-17	3:37:40	39.7	38.4		
Jan-17	3:37:50	36.2	33.9		
Jan-17	3:38:00	30.6	34.3		
Jan-17	3:38:10	32.7	40.0		
Jan-17	3:38:20	32.1	42.9		
Jan-17	3:38:30	32.9	40.7		
Jan-17	3:38:40	30.6	32.8		
Jan-17	3:38:50	33.5	42.3		
Jan-17	3:39:00	36.9	39.8		
Jan-17	3:39:10	42.0	36.8		
Jan-17	3:39:20	34.1	32.3		
Jan-17	3:39:30	36.0	35.3		
Jan-17	3:39:40	33.3	33.3		
Jan-17	3:39:50	28.1	30.1		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
38.5	**38.6**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	3:40:00	27.6	26.5		
Jan-17	3:40:10	25.2	26.0		
Jan-17	3:40:20	29.0	29.3		
Jan-17	3:40:30	36.4	33.9		
Jan-17	3:40:40	29.8	37.1		
Jan-17	3:40:50	34.2	40.9		
Jan-17	3:41:00	36.1	47.6		
Jan-17	3:41:10	34.4	38.8		
Jan-17	3:41:20	34.7	31.0		
Jan-17	3:41:30	34.2	31.6		
Jan-17	3:41:40	37.6	33.9		
Jan-17	3:41:50	38.8	32.0		
Jan-17	3:42:00	31.7	35.1		
Jan-17	3:42:10	34.5	46.4		
Jan-17	3:42:20	36.5	41.9		
Jan-17	3:42:30	30.2	30.6		
Jan-17	3:42:40	27.9	29.2		
Jan-17	3:42:50	31.1	31.7		
Jan-17	3:43:00	34.2	33.4		
Jan-17	3:43:10	33.0	34.5		
Jan-17	3:43:20	32.2	42.0		
Jan-17	3:43:30	35.3	37.3		
Jan-17	3:43:40	39.6	36.2		
Jan-17	3:43:50	33.1	29.0		
Jan-17	3:44:00	37.4	33.2		
Jan-17	3:44:10	42.2	35.1	Operator Noise	
Jan-17	3:44:20	35.4	29.5		
Jan-17	3:44:30	36.7	26.5		
Jan-17	3:44:40	34.1	28.3		
Jan-17	3:44:50	36.9	26.5		
Jan-17	3:45:00	39.9	29.0		
Jan-17	3:45:10	39.2	34.5		
Jan-17	3:45:20	37.7	33.6		
Jan-17	3:45:30	36.7	26.4		
Jan-17	3:45:40	35.5	25.4		
Jan-17	3:45:50	36.2	28.0		
Jan-17	3:46:00	43.3	27.4	Operator Noise	
Jan-17	3:46:10	37.7	28.9		
Jan-17	3:46:20	35.7	32.5		
Jan-17	3:46:30	36.0	31.5		
Jan-17	3:46:40	37.5	31.6		
Jan-17	3:46:50	39.6	30.5		
Jan-17	3:47:00	40.9	26.8		
Jan-17	3:47:10	43.2	29.8	Operator Noise	
Jan-17	3:47:20	47.1	26.9	Operator Noise	
Jan-17	3:47:30	31.0	25.6		
Jan-17	3:47:40	48.5	26.8	Operator Noise	
Jan-17	3:47:50	45.1	27.7	Operator Noise	
Jan-17	3:48:00	35.2	28.3		
Jan-17	3:48:10	45.1	27.3	Operator Noise	
Jan-17	3:48:20	41.4	29.8		
Jan-17	3:48:30	40.3	33.5		
Jan-17	3:48:40	37.6	34.8		
Jan-17	3:48:50	37.7	37.7		
Jan-17	3:49:00	41.5	36.1		
Jan-17	3:49:10	47.6	31.4	Operator Noise	
Jan-17	3:49:20	42.5	31.8	Operator Noise	
Jan-17	3:49:30	42.4	36.7	Operator Noise	
Jan-17	3:49:40	42.5	36.8	Operator Noise	
Jan-17	3:49:50	38.4	43.7		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
36.7	**36.5**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	3:50:00	40.7	52.0		Operator Noise
Jan-17	3:50:10	36.7	37.8		
Jan-17	3:50:20	40.4	42.7		
Jan-17	3:50:30	35.9	42.1		
Jan-17	3:50:40	26.4	41.9		
Jan-17	3:50:50	34.9	33.8		
Jan-17	3:51:00	34.8	29.9		
Jan-17	3:51:10	26.4	28.4		
Jan-17	3:51:20	35.4	29.0		
Jan-17	3:51:30	38.7	33.3		
Jan-17	3:51:40	43.4	35.4		
Jan-17	3:51:50	37.9	41.9		
Jan-17	3:52:00	37.0	38.8		
Jan-17	3:52:10	43.0	36.9	Operator Noise	
Jan-17	3:52:20	44.7	34.4	Operator Noise	
Jan-17	3:52:30	34.6	30.6		
Jan-17	3:52:40	39.7	29.1		
Jan-17	3:52:50	38.3	28.1		
Jan-17	3:53:00	32.3	29.2		
Jan-17	3:53:10	33.2	30.2		
Jan-17	3:53:20	36.9	33.8		
Jan-17	3:53:30	38.6	32.6		
Jan-17	3:53:40	31.5	31.9		
Jan-17	3:53:50	30.4	35.5		
Jan-17	3:54:00	31.6	35.7		
Jan-17	3:54:10	35.6	40.6		
Jan-17	3:54:20	37.6	48.3		
Jan-17	3:54:30	36.5	43.4		
Jan-17	3:54:40	35.7	40.0		
Jan-17	3:54:50	34.9	35.4		
Jan-17	3:55:00	39.4	37.5		
Jan-17	3:55:10	35.0	37.9		
Jan-17	3:55:20	41.8	46.3		
Jan-17	3:55:30	40.4	43.5		
Jan-17	3:55:40	41.0	42.7		
Jan-17	3:55:50	33.8	33.6		
Jan-17	3:56:00	33.5	35.7		
Jan-17	3:56:10	31.8	34.1		
Jan-17	3:56:20	38.2	44.2		
Jan-17	3:56:30	36.7	43.3		
Jan-17	3:56:40	32.3	31.7		
Jan-17	3:56:50	33.9	35.4		
Jan-17	3:57:00	34.4	35.1		
Jan-17	3:57:10	34.4	34.3		
Jan-17	3:57:20	41.3	35.3		
Jan-17	3:57:30	34.7	35.7		
Jan-17	3:57:40	37.2	43.3		
Jan-17	3:57:50	34.5	43.7		
Jan-17	3:58:00	35.9	43.8		
Jan-17	3:58:10	33.4	39.0		
Jan-17	3:58:20	31.6	38.3		
Jan-17	3:58:30	36.9	46.5		
Jan-17	3:58:40	35.7	42.2		
Jan-17	3:58:50	33.0	30.4		
Jan-17	3:59:00	39.5	30.8		
Jan-17	3:59:10	38.8	32.6		
Jan-17	3:59:20	44.9	30.7	Operator Noise	
Jan-17	3:59:30	45.8	28.9	Operator Noise	
Jan-17	3:59:40	48.7	29.1	Operator Noise	
Jan-17	3:59:50	35.7	33.2		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
37.1	**39.7**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	4:00:00	35.5	36.4		
Jan-17	4:00:10	33.9	33.8		
Jan-17	4:00:20	35.8	38.2		
Jan-17	4:00:30	40.8	47.1		
Jan-17	4:00:40	39.7	36.9		
Jan-17	4:00:50	41.1	35.3		
Jan-17	4:01:00	45.1	36.0	Operator Noise	
Jan-17	4:01:10	43.2	34.7	Operator Noise	
Jan-17	4:01:20	35.5	34.1		
Jan-17	4:01:30	42.5	31.2		
Jan-17	4:01:40	40.5	28.8		
Jan-17	4:01:50	43.8	31.3		
Jan-17	4:02:00	38.8	34.4		
Jan-17	4:02:10	39.1	43.8		
Jan-17	4:02:20	41.1	32.3		
Jan-17	4:02:30	34.2	30.6		
Jan-17	4:02:40	38.7	33.3		
Jan-17	4:02:50	35.9	42.4		
Jan-17	4:03:00	34.0	40.6		
Jan-17	4:03:10	34.6	36.7		
Jan-17	4:03:20	39.6	47.4		
Jan-17	4:03:30	38.6	46.6		
Jan-17	4:03:40	40.7	30.1		
Jan-17	4:03:50	45.5	27.7		
Jan-17	4:04:00	40.3	31.7		
Jan-17	4:04:10	40.5	35.3		
Jan-17	4:04:20	42.5	39.0		
Jan-17	4:04:30	41.7	45.1		
Jan-17	4:04:40	43.0	35.7		
Jan-17	4:04:50	41.5	36.1		
Jan-17	4:05:00	38.8	36.0		
Jan-17	4:05:10	42.4	35.7		
Jan-17	4:05:20	34.1	36.3		
Jan-17	4:05:30	33.9	42.8		
Jan-17	4:05:40	37.2	34.8		
Jan-17	4:05:50	39.7	35.1		
Jan-17	4:06:00	39.5	35.0		
Jan-17	4:06:10	35.6	42.1		
Jan-17	4:06:20	41.4	40.0		
Jan-17	4:06:30	42.5	37.3		
Jan-17	4:06:40	33.3	44.4		
Jan-17	4:06:50	31.5	39.9		
Jan-17	4:07:00	34.2	38.7		
Jan-17	4:07:10	37.8	48.4		
Jan-17	4:07:20	36.9	40.0		
Jan-17	4:07:30	39.3	30.7		
Jan-17	4:07:40	31.3	29.7		
Jan-17	4:07:50	34.0	32.2		
Jan-17	4:08:00	34.7	29.5		
Jan-17	4:08:10	34.5	32.5		
Jan-17	4:08:20	38.6	31.5		
Jan-17	4:08:30	28.7	28.2		
Jan-17	4:08:40	26.2	27.1		
Jan-17	4:08:50	29.0	28.3		
Jan-17	4:09:00	31.5	28.4		
Jan-17	4:09:10	32.2	29.3		
Jan-17	4:09:20	31.9	29.8		
Jan-17	4:09:30	31.8	39.5		
Jan-17	4:09:40	38.1	39.4		
Jan-17	4:09:50	33.5	29.1		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
38.9	**39.5**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	4:10:00	31.9	29.5		
Jan-17	4:10:10	34.9	29.8		
Jan-17	4:10:20	30.8	29.2		
Jan-17	4:10:30	32.6	29.9		
Jan-17	4:10:40	31.5	28.5		
Jan-17	4:10:50	33.6	29.3		
Jan-17	4:11:00	37.7	32.2		
Jan-17	4:11:10	36.4	31.3		
Jan-17	4:11:20	37.2	34.8		
Jan-17	4:11:30	39.5	41.5		
Jan-17	4:11:40	34.1	39.3		
Jan-17	4:11:50	32.6	31.4		
Jan-17	4:12:00	32.2	29.9		
Jan-17	4:12:10	28.6	29.2		
Jan-17	4:12:20	32.1	32.7		
Jan-17	4:12:30	41.0	35.6		
Jan-17	4:12:40	37.9	37.5		
Jan-17	4:12:50	34.7	45.4		
Jan-17	4:13:00	36.0	47.0		
Jan-17	4:13:10	35.1	43.7		
Jan-17	4:13:20	38.8	47.4		
Jan-17	4:13:30	41.9	44.8		
Jan-17	4:13:40	44.5	45.6		
Jan-17	4:13:50	38.1	42.8		
Jan-17	4:14:00	39.0	40.0		
Jan-17	4:14:10	36.5	37.4		
Jan-17	4:14:20	35.3	47.3		
Jan-17	4:14:30	34.5	40.1		
Jan-17	4:14:40	35.5	32.1		
Jan-17	4:14:50	35.4	32.2		
Jan-17	4:15:00	34.2	35.4		
Jan-17	4:15:10	35.3	38.7		
Jan-17	4:15:20	39.7	39.4		
Jan-17	4:15:30	38.2	46.0		
Jan-17	4:15:40	35.7	40.9		
Jan-17	4:15:50	37.1	33.6		
Jan-17	4:16:00	37.4	32.1		
Jan-17	4:16:10	28.8	29.4		
Jan-17	4:16:20	28.3	30.5		
Jan-17	4:16:30	31.9	32.4		
Jan-17	4:16:40	35.5	37.2		
Jan-17	4:16:50	40.0	40.0		
Jan-17	4:17:00	35.5	37.0		
Jan-17	4:17:10	36.6	48.4		
Jan-17	4:17:20	32.8	39.1		
Jan-17	4:17:30	34.0	32.0		
Jan-17	4:17:40	40.0	43.5		
Jan-17	4:17:50	40.0	47.3		
Jan-17	4:18:00	35.2	36.1		
Jan-17	4:18:10	34.4	44.7		
Jan-17	4:18:20	37.3	46.9		
Jan-17	4:18:30	37.9	38.6		
Jan-17	4:18:40	33.6	34.3		
Jan-17	4:18:50	32.1	32.8		
Jan-17	4:19:00	35.1	35.8		
Jan-17	4:19:10	39.3	41.8		
Jan-17	4:19:20	41.9	42.8		
Jan-17	4:19:30	40.0	37.2		
Jan-17	4:19:40	36.4	34.4		
Jan-17	4:19:50	35.0	34.2		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
37.1	**41.1**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	4:20:00	33.1	39.4		
Jan-17	4:20:10	39.0	45.3		
Jan-17	4:20:20	37.8	39.6		
Jan-17	4:20:30	32.4	32.9		
Jan-17	4:20:40	36.2	31.5		
Jan-17	4:20:50	32.3	30.5		
Jan-17	4:21:00	34.6	35.4		
Jan-17	4:21:10	43.1	40.2		
Jan-17	4:21:20	43.9	45.1		
Jan-17	4:21:30	31.8	36.3		
Jan-17	4:21:40	35.1	30.8		
Jan-17	4:21:50	34.7	32.3		
Jan-17	4:22:00	38.2	33.7		
Jan-17	4:22:10	35.7	33.2		
Jan-17	4:22:20	35.2	33.2		
Jan-17	4:22:30	40.1	33.1		
Jan-17	4:22:40	37.8	34.4		
Jan-17	4:22:50	36.2	41.2		
Jan-17	4:23:00	32.1	38.8		
Jan-17	4:23:10	29.8	31.6		
Jan-17	4:23:20	39.9	36.2		
Jan-17	4:23:30	35.3	46.7		
Jan-17	4:23:40	37.6	44.7		
Jan-17	4:23:50	31.9	35.2		
Jan-17	4:24:00	34.9	46.3		
Jan-17	4:24:10	37.0	40.3		
Jan-17	4:24:20	38.7	46.1		
Jan-17	4:24:30	37.0	42.0		
Jan-17	4:24:40	39.2	49.1		
Jan-17	4:24:50	34.6	39.1		
Jan-17	4:25:00	30.2	38.2		
Jan-17	4:25:10	34.7	37.8		
Jan-17	4:25:20	37.7	36.7		
Jan-17	4:25:30	39.7	44.0		
Jan-17	4:25:40	37.9	41.7		
Jan-17	4:25:50	36.1	38.9		
Jan-17	4:26:00	39.6	38.3		
Jan-17	4:26:10	41.9	38.9		
Jan-17	4:26:20	46.3	39.8	Operator Noise	
Jan-17	4:26:30	46.1	42.4	Operator Noise	
Jan-17	4:26:40	41.2	44.6		
Jan-17	4:26:50	38.9	40.2		
Jan-17	4:27:00	41.3	39.9		
Jan-17	4:27:10	44.4	46.4	Operator Noise	
Jan-17	4:27:20	43.5	50.9	Operator Noise	
Jan-17	4:27:30	44.5	43.1	Operator Noise	
Jan-17	4:27:40	45.1	37.0	Operator Noise	
Jan-17	4:27:50	46.0	41.4	Operator Noise	
Jan-17	4:28:00	43.9	46.4		
Jan-17	4:28:10	40.6	44.9		
Jan-17	4:28:20	39.7	36.8		
Jan-17	4:28:30	39.6	34.4		
Jan-17	4:28:40	37.9	37.0		
Jan-17	4:28:50	40.8	42.7		
Jan-17	4:29:00	40.3	40.0		
Jan-17	4:29:10	35.7	37.8		
Jan-17	4:29:20	37.6	45.4		
Jan-17	4:29:30	41.1	49.5		
Jan-17	4:29:40	39.3	51.5		
Jan-17	4:29:50	42.5	47.6		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
38.7	**43.1**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	4:30:00	38.1	40.9		
Jan-17	4:30:10	34.6	35.7		
Jan-17	4:30:20	34.3	32.9		
Jan-17	4:30:30	31.5	34.5		
Jan-17	4:30:40	37.9	36.4		
Jan-17	4:30:50	44.1	41.2		
Jan-17	4:31:00	36.6	42.1		
Jan-17	4:31:10	38.6	45.8		
Jan-17	4:31:20	41.9	45.6		
Jan-17	4:31:30	44.3	51.9		
Jan-17	4:31:40	41.4	44.7		
Jan-17	4:31:50	40.6	50.2		
Jan-17	4:32:00	39.1	45.8		
Jan-17	4:32:10	37.1	44.3		
Jan-17	4:32:20	37.2	34.7		
Jan-17	4:32:30	35.5	40.8		
Jan-17	4:32:40	39.3	49.6		
Jan-17	4:32:50	39.5	49.5		
Jan-17	4:33:00	41.1	47.2		
Jan-17	4:33:10	43.7	38.2		
Jan-17	4:33:20	40.0	37.9		
Jan-17	4:33:30	45.6	40.0		
Jan-17	4:33:40	42.9	42.6		
Jan-17	4:33:50	43.1	44.7		
Jan-17	4:34:00	44.5	42.6		
Jan-17	4:34:10	40.6	42.9		
Jan-17	4:34:20	43.1	44.3		
Jan-17	4:34:30	41.2	32.3		
Jan-17	4:34:40	34.3	35.9		
Jan-17	4:34:50	41.0	40.4		
Jan-17	4:35:00	43.5	50.2		
Jan-17	4:35:10	41.1	47.1		
Jan-17	4:35:20	38.5	36.0		
Jan-17	4:35:30	40.4	33.7		
Jan-17	4:35:40	40.8	36.7		
Jan-17	4:35:50	33.2	37.8		
Jan-17	4:36:00	36.0	35.0		
Jan-17	4:36:10	42.6	39.5		
Jan-17	4:36:20	39.3	39.0		
Jan-17	4:36:30	39.3	45.2		
Jan-17	4:36:40	36.2	39.2		
Jan-17	4:36:50	34.5	33.6		
Jan-17	4:37:00	36.8	36.3		
Jan-17	4:37:10	40.4	37.8		
Jan-17	4:37:20	37.3	38.5		
Jan-17	4:37:30	36.2	37.8		
Jan-17	4:37:40	35.3	43.2		
Jan-17	4:37:50	34.5	41.7		
Jan-17	4:38:00	36.1	44.1		
Jan-17	4:38:10	41.1	52.5		
Jan-17	4:38:20	42.5	50.4		
Jan-17	4:38:30	39.1	45.9		
Jan-17	4:38:40	37.9	36.5		
Jan-17	4:38:50	36.4	45.4		
Jan-17	4:39:00	37.8	50.1		
Jan-17	4:39:10	44.0	46.0		
Jan-17	4:39:20	37.6	41.3		
Jan-17	4:39:30	34.5	39.1		
Jan-17	4:39:40	42.3	38.6		
Jan-17	4:39:50	36.1	35.3		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
40.3	**44.6**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	4:40:00	34.4	35.3		
Jan-17	4:40:10	40.6	35.5		
Jan-17	4:40:20	36.2	35.5		
Jan-17	4:40:30	41.9	42.3		
Jan-17	4:40:40	44.2	40.8		
Jan-17	4:40:50	40.7	46.4		
Jan-17	4:41:00	39.8	48.2		
Jan-17	4:41:10	38.0	38.0		
Jan-17	4:41:20	40.1	32.1		
Jan-17	4:41:30	32.0	32.3		
Jan-17	4:41:40	38.9	35.3		
Jan-17	4:41:50	37.5	43.1		
Jan-17	4:42:00	41.9	35.3		
Jan-17	4:42:10	35.6	34.3		
Jan-17	4:42:20	39.3	36.0		
Jan-17	4:42:30	39.2	41.6		
Jan-17	4:42:40	31.3	40.6		
Jan-17	4:42:50	33.6	30.9		
Jan-17	4:43:00	34.1	40.8		
Jan-17	4:43:10	36.8	40.5		
Jan-17	4:43:20	36.4	42.7		
Jan-17	4:43:30	36.7	38.3		
Jan-17	4:43:40	37.6	38.4		
Jan-17	4:43:50	37.6	40.7		
Jan-17	4:44:00	31.5	37.0		
Jan-17	4:44:10	36.3	36.1		
Jan-17	4:44:20	37.2	32.5		
Jan-17	4:44:30	38.2	32.0		
Jan-17	4:44:40	34.8	31.4		
Jan-17	4:44:50	34.9	31.4		
Jan-17	4:45:00	29.8	30.6		
Jan-17	4:45:10	28.5	29.5		
Jan-17	4:45:20	32.6	29.5		
Jan-17	4:45:30	35.0	31.8		
Jan-17	4:45:40	35.5	33.1		
Jan-17	4:45:50	32.7	32.8		
Jan-17	4:46:00	38.9	35.3		
Jan-17	4:46:10	42.8	38.8		
Jan-17	4:46:20	40.6	43.1		
Jan-17	4:46:30	35.8	38.4		
Jan-17	4:46:40	38.0	44.1		
Jan-17	4:46:50	40.3	41.1		
Jan-17	4:47:00	44.0	40.6		
Jan-17	4:47:10	43.5	47.4		
Jan-17	4:47:20	44.6	40.4	Car	
Jan-17	4:47:30	39.9	39.4	Car	
Jan-17	4:47:40	41.8	42.0	Car	
Jan-17	4:47:50	45.9	43.0	Car	
Jan-17	4:48:00	45.2	43.3	Car	
Jan-17	4:48:10	45.4	50.8	Car	
Jan-17	4:48:20	40.8	46.9		
Jan-17	4:48:30	39.9	38.6		
Jan-17	4:48:40	43.4	41.5		
Jan-17	4:48:50	41.1	41.3		
Jan-17	4:49:00	34.0	35.3		
Jan-17	4:49:10	34.7	39.1		
Jan-17	4:49:20	34.4	37.3		
Jan-17	4:49:30	36.3	35.3		
Jan-17	4:49:40	36.2	40.4		
Jan-17	4:49:50	44.2	39.3		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
38.9	**41.1**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	4:50:00	41.8	50.1		
Jan-17	4:50:10	41.1	48.2		
Jan-17	4:50:20	37.7	43.6		
Jan-17	4:50:30	34.2	35.6		
Jan-17	4:50:40	36.0	39.4		
Jan-17	4:50:50	38.8	48.3		
Jan-17	4:51:00	41.8	46.0		
Jan-17	4:51:10	46.2	44.5		
Jan-17	4:51:20	41.8	46.2		
Jan-17	4:51:30	37.3	41.0		
Jan-17	4:51:40	35.2	43.0		
Jan-17	4:51:50	36.8	47.3		
Jan-17	4:52:00	40.1	43.6		
Jan-17	4:52:10	38.5	38.6		
Jan-17	4:52:20	44.1	43.5		
Jan-17	4:52:30	41.5	51.1		Traffic Noise
Jan-17	4:52:40	42.6	47.2		Traffic Noise
Jan-17	4:52:50	37.4	38.0		
Jan-17	4:53:00	39.7	36.8		
Jan-17	4:53:10	37.2	39.1		
Jan-17	4:53:20	40.4	43.6		
Jan-17	4:53:30	47.4	52.8		Traffic Noise
Jan-17	4:53:40	43.2	47.7		Traffic Noise
Jan-17	4:53:50	41.6	46.2		
Jan-17	4:54:00	39.4	36.3		
Jan-17	4:54:10	51.0	36.9	Car	
Jan-17	4:54:20	75.7	43.7	Car	
Jan-17	4:54:30	62.9	60.2	Car	Car
Jan-17	4:54:40	41.5	77.8		Car
Jan-17	4:54:50	41.2	57.3		Car
Jan-17	4:55:00	41.6	48.6		
Jan-17	4:55:10	39.5	49.2		
Jan-17	4:55:20	42.1	46.9		
Jan-17	4:55:30	44.9	58.6		Operator Noise
Jan-17	4:55:40	40.3	49.5		Operator Noise
Jan-17	4:55:50	46.5	51.3		
Jan-17	4:56:00	45.0	52.5		
Jan-17	4:56:10	43.6	49.2		
Jan-17	4:56:20	44.2	45.1		
Jan-17	4:56:30	49.7	46.7		
Jan-17	4:56:40	43.7	41.2		
Jan-17	4:56:50	37.5	44.3		
Jan-17	4:57:00	38.8	46.1		
Jan-17	4:57:10	35.2	35.2		
Jan-17	4:57:20	34.7	32.1		
Jan-17	4:57:30	35.4	33.7		
Jan-17	4:57:40	37.8	34.1		
Jan-17	4:57:50	37.0	36.0		
Jan-17	4:58:00	38.1	40.7		
Jan-17	4:58:10	38.6	44.5		
Jan-17	4:58:20	38.9	42.9		
Jan-17	4:58:30	40.8	49.2		
Jan-17	4:58:40	39.3	43.3		
Jan-17	4:58:50	39.1	49.8		
Jan-17	4:59:00	38.9	44.7		
Jan-17	4:59:10	36.5	38.3		
Jan-17	4:59:20	36.9	41.3		
Jan-17	4:59:30	38.3	35.7		
Jan-17	4:59:40	34.9	36.2		
Jan-17	4:59:50	40.4	44.2		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
41.5	**45.4**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	5:00:00	56.1	42.5		
Jan-17	5:00:10	54.6	48.6		
Jan-17	5:00:20	38.8	52.1		
Jan-17	5:00:30	37.4	62.3		
Jan-17	5:00:40	33.3	42.6		
Jan-17	5:00:50	34.5	39.9		
Jan-17	5:01:00	43.1	41.5		
Jan-17	5:01:10	40.6	46.3		
Jan-17	5:01:20	39.1	42.6		
Jan-17	5:01:30	39.1	37.8		
Jan-17	5:01:40	44.1	39.4		
Jan-17	5:01:50	37.7	46.4		
Jan-17	5:02:00	40.7	39.1		
Jan-17	5:02:10	40.9	43.8		
Jan-17	5:02:20	40.2	40.4		
Jan-17	5:02:30	46.8	40.7		
Jan-17	5:02:40	39.4	37.1		
Jan-17	5:02:50	41.3	45.3		
Jan-17	5:03:00	38.9	43.1		
Jan-17	5:03:10	39.5	49.6		
Jan-17	5:03:20	39.6	48.8		
Jan-17	5:03:30	38.2	41.9		
Jan-17	5:03:40	37.8	45.1		
Jan-17	5:03:50	40.0	41.3		
Jan-17	5:04:00	39.3	48.3		
Jan-17	5:04:10	41.9	44.0		
Jan-17	5:04:20	40.2	47.8		
Jan-17	5:04:30	37.5	45.0		
Jan-17	5:04:40	33.1	38.5		
Jan-17	5:04:50	37.1	36.3		
Jan-17	5:05:00	37.2	47.9		
Jan-17	5:05:10	36.1	41.6		
Jan-17	5:05:20	37.0	34.0		
Jan-17	5:05:30	37.1	36.5		
Jan-17	5:05:40	40.8	47.8		
Jan-17	5:05:50	43.9	48.3		
Jan-17	5:06:00	41.5	49.6		
Jan-17	5:06:10	41.3	53.2		
Jan-17	5:06:20	36.4	45.1		
Jan-17	5:06:30	38.9	41.9		
Jan-17	5:06:40	41.0	45.3		
Jan-17	5:06:50	37.7	41.4		
Jan-17	5:07:00	39.2	39.5		
Jan-17	5:07:10	40.6	39.2		
Jan-17	5:07:20	40.1	48.8		
Jan-17	5:07:30	40.8	45.8		
Jan-17	5:07:40	44.1	43.3		
Jan-17	5:07:50	43.5	44.7		
Jan-17	5:08:00	38.9	42.1		
Jan-17	5:08:10	40.5	49.0		
Jan-17	5:08:20	38.4	42.5		
Jan-17	5:08:30	35.5	38.4		
Jan-17	5:08:40	38.7	41.6		
Jan-17	5:08:50	38.3	48.2		
Jan-17	5:09:00	38.0	46.3		
Jan-17	5:09:10	39.0	46.6		
Jan-17	5:09:20	36.3	35.0		
Jan-17	5:09:30	37.6	35.6		
Jan-17	5:09:40	40.4	39.8		
Jan-17	5:09:50	35.4	36.9		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
43.3	**48.0**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	5:10:00	35.0	44.1		
Jan-17	5:10:10	35.3	45.1		
Jan-17	5:10:20	38.3	46.4		
Jan-17	5:10:30	38.4	46.1		
Jan-17	5:10:40	39.5	42.3		
Jan-17	5:10:50	41.8	46.6		
Jan-17	5:11:00	41.4	51.4		Traffic Noise
Jan-17	5:11:10	40.8	47.3		Traffic Noise
Jan-17	5:11:20	44.4	39.1		
Jan-17	5:11:30	43.5	38.6		
Jan-17	5:11:40	40.9	48.3		
Jan-17	5:11:50	41.5	42.9		
Jan-17	5:12:00	40.9	45.4		
Jan-17	5:12:10	38.7	40.6		
Jan-17	5:12:20	42.3	50.4		
Jan-17	5:12:30	41.8	45.3		
Jan-17	5:12:40	40.9	44.4		
Jan-17	5:12:50	41.7	45.2		
Jan-17	5:13:00	44.4	47.0		
Jan-17	5:13:10	46.3	39.3	Operator Noise	
Jan-17	5:13:20	45.3	39.5	Operator Noise	
Jan-17	5:13:30	41.9	47.6		
Jan-17	5:13:40	42.3	47.6		
Jan-17	5:13:50	43.3	37.7		
Jan-17	5:14:00	41.8	36.2		
Jan-17	5:14:10	39.3	42.6		
Jan-17	5:14:20	44.2	43.6		
Jan-17	5:14:30	48.0	40.2	Operator Noise	
Jan-17	5:14:40	43.1	47.6		
Jan-17	5:14:50	44.6	46.4		
Jan-17	5:15:00	50.6	42.4	Operator Noise	
Jan-17	5:15:10	70.1	44.4	Operator Noise	
Jan-17	5:15:20	61.5	50.9	Operator Noise	
Jan-17	5:15:30	43.0	66.4		Traffic Noise
Jan-17	5:15:40	40.4	70.2		Traffic Noise
Jan-17	5:15:50	39.4	44.9		
Jan-17	5:16:00	40.4	49.1		
Jan-17	5:16:10	38.9	41.2		
Jan-17	5:16:20	39.3	37.7		
Jan-17	5:16:30	43.9	40.8		
Jan-17	5:16:40	40.4	47.3		
Jan-17	5:16:50	40.2	51.5		
Jan-17	5:17:00	40.9	46.5		
Jan-17	5:17:10	38.6	42.2		
Jan-17	5:17:20	40.4	53.7		Traffic Noise
Jan-17	5:17:30	41.5	51.5		Traffic Noise
Jan-17	5:17:40	41.6	43.5		
Jan-17	5:17:50	42.4	45.6		
Jan-17	5:18:00	39.8	48.9		
Jan-17	5:18:10	39.4	47.7		
Jan-17	5:18:20	37.6	37.1		
Jan-17	5:18:30	37.0	39.6		
Jan-17	5:18:40	46.8	46.0	Car	
Jan-17	5:18:50	58.5	49.6	Car	
Jan-17	5:19:00	49.8	48.6	Car	
Jan-17	5:19:10	40.9	56.3		Car
Jan-17	5:19:20	40.3	60.9		Car
Jan-17	5:19:30	41.9	49.0		Car
Jan-17	5:19:40	40.9	41.6		
Jan-17	5:19:50	39.5	38.1		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
41.3	**45.7**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	5:20:00	39.7	43.4		
Jan-17	5:20:10	38.2	47.8		
Jan-17	5:20:20	37.6	43.1		
Jan-17	5:20:30	36.9	47.9		
Jan-17	5:20:40	38.7	47.2		
Jan-17	5:20:50	38.4	42.5		
Jan-17	5:21:00	38.1	41.9		
Jan-17	5:21:10	39.0	46.0		
Jan-17	5:21:20	38.2	44.7		
Jan-17	5:21:30	36.3	37.5		
Jan-17	5:21:40	39.0	39.7		
Jan-17	5:21:50	39.7	50.9		Traffic Noise
Jan-17	5:22:00	38.6	45.5		
Jan-17	5:22:10	43.1	45.9		
Jan-17	5:22:20	41.8	47.9		
Jan-17	5:22:30	44.7	48.7		
Jan-17	5:22:40	42.6	50.7		Traffic Noise
Jan-17	5:22:50	39.6	44.5		
Jan-17	5:23:00	41.7	45.9		
Jan-17	5:23:10	41.1	41.0		
Jan-17	5:23:20	37.9	39.4		
Jan-17	5:23:30	39.6	37.6		
Jan-17	5:23:40	40.7	42.5		
Jan-17	5:23:50	40.6	48.2		
Jan-17	5:24:00	42.6	48.1		
Jan-17	5:24:10	42.4	46.5		
Jan-17	5:24:20	45.4	45.4		
Jan-17	5:24:30	43.1	42.7		
Jan-17	5:24:40	40.5	37.9		
Jan-17	5:24:50	37.4	38.9		
Jan-17	5:25:00	42.8	47.0		
Jan-17	5:25:10	49.3	52.4	Traffic Noise	Traffic Noise
Jan-17	5:25:20	44.3	48.2		
Jan-17	5:25:30	39.6	45.6		
Jan-17	5:25:40	41.7	43.2		
Jan-17	5:25:50	45.8	47.0		
Jan-17	5:26:00	43.2	48.6		
Jan-17	5:26:10	44.2	46.3		
Jan-17	5:26:20	48.2	45.3		
Jan-17	5:26:30	45.9	42.8		
Jan-17	5:26:40	46.0	44.6		
Jan-17	5:26:50	40.3	43.3		
Jan-17	5:27:00	44.9	38.5		
Jan-17	5:27:10	42.2	40.6		
Jan-17	5:27:20	50.7	48.5	Traffic Noise	Traffic Noise
Jan-17	5:27:30	46.3	57.9	Traffic Noise	Traffic Noise
Jan-17	5:27:40	40.1	38.1		
Jan-17	5:27:50	38.8	37.5		
Jan-17	5:28:00	43.7	40.2		
Jan-17	5:28:10	41.7	41.0		
Jan-17	5:28:20	41.2	49.1		
Jan-17	5:28:30	44.8	45.0		
Jan-17	5:28:40	49.2	47.7	Traffic Noise	Traffic Noise
Jan-17	5:28:50	44.1	46.8		
Jan-17	5:29:00	47.7	48.3	Traffic Noise	Traffic Noise
Jan-17	5:29:10	44.2	42.2		
Jan-17	5:29:20	45.3	43.6		
Jan-17	5:29:30	40.3	49.4		Traffic Noise
Jan-17	5:29:40	43.3	43.0		
Jan-17	5:29:50	45.5	44.4		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
42.4	**45.0**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	5:30:00	45.7	47.7		
Jan-17	5:30:10	44.7	48.0		
Jan-17	5:30:20	41.7	49.2		
Jan-17	5:30:30	41.3	39.9		
Jan-17	5:30:40	42.8	44.0		
Jan-17	5:30:50	45.5	50.5		
Jan-17	5:31:00	47.2	48.0		
Jan-17	5:31:10	43.6	44.3		
Jan-17	5:31:20	44.5	47.2		
Jan-17	5:31:30	46.9	47.0		
Jan-17	5:31:40	42.9	43.3		
Jan-17	5:31:50	44.8	43.5		
Jan-17	5:32:00	41.8	38.2		
Jan-17	5:32:10	43.5	39.0		
Jan-17	5:32:20	39.3	38.9		
Jan-17	5:32:30	43.4	42.7		
Jan-17	5:32:40	47.2	49.3		
Jan-17	5:32:50	45.0	43.7		
Jan-17	5:33:00	44.6	41.0		
Jan-17	5:33:10	42.9	41.8		
Jan-17	5:33:20	38.6	47.6		
Jan-17	5:33:30	37.5	38.0		
Jan-17	5:33:40	39.6	46.4		
Jan-17	5:33:50	41.4	46.5		
Jan-17	5:34:00	39.5	46.1		
Jan-17	5:34:10	40.5	41.2		
Jan-17	5:34:20	41.9	37.6		
Jan-17	5:34:30	43.6	39.8		
Jan-17	5:34:40	43.3	49.1		
Jan-17	5:34:50	43.0	50.6		
Jan-17	5:35:00	43.6	40.8		
Jan-17	5:35:10	44.7	41.5		
Jan-17	5:35:20	46.8	43.5		
Jan-17	5:35:30	44.9	45.2		
Jan-17	5:35:40	44.3	52.1		
Jan-17	5:35:50	44.8	49.4		
Jan-17	5:36:00	41.8	41.1		
Jan-17	5:36:10	40.1	40.2		
Jan-17	5:36:20	43.7	48.1		
Jan-17	5:36:30	46.2	58.0		
Jan-17	5:36:40	51.8	61.1		
Jan-17	5:36:50	43.7	47.4		
Jan-17	5:37:00	43.9	42.6		
Jan-17	5:37:10	43.6	45.7		
Jan-17	5:37:20	39.5	46.1		
Jan-17	5:37:30	42.2	47.3		
Jan-17	5:37:40	45.4	50.8		
Jan-17	5:37:50	41.5	44.5		
Jan-17	5:38:00	39.2	40.0		
Jan-17	5:38:10	40.3	39.4		
Jan-17	5:38:20	43.0	43.2		
Jan-17	5:38:30	42.1	50.0		
Jan-17	5:38:40	46.1	58.0		
Jan-17	5:38:50	42.9	48.7		
Jan-17	5:39:00	42.8	47.8		
Jan-17	5:39:10	50.7	54.7		
Jan-17	5:39:20	50.8	53.5		
Jan-17	5:39:30	48.8	46.3		
Jan-17	5:39:40	44.4	51.7		
Jan-17	5:39:50	46.8	53.3		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
44.8	**49.8**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	5:40:00	43.5	50.5		
Jan-17	5:40:10	44.3	50.6		
Jan-17	5:40:20	45.7	48.4		
Jan-17	5:40:30	45.0	42.6		
Jan-17	5:40:40	43.5	42.3		
Jan-17	5:40:50	41.7	46.6		
Jan-17	5:41:00	41.2	45.1		
Jan-17	5:41:10	42.2	42.6		
Jan-17	5:41:20	42.2	45.9		
Jan-17	5:41:30	40.9	44.1		
Jan-17	5:41:40	39.5	38.4		
Jan-17	5:41:50	39.9	46.0		
Jan-17	5:42:00	39.3	48.8		
Jan-17	5:42:10	42.6	49.8		
Jan-17	5:42:20	43.0	49.6		
Jan-17	5:42:30	41.8	42.5		
Jan-17	5:42:40	40.6	44.7		
Jan-17	5:42:50	41.3	44.8		
Jan-17	5:43:00	41.0	39.4		
Jan-17	5:43:10	42.0	45.9		
Jan-17	5:43:20	44.6	53.9		
Jan-17	5:43:30	46.0	47.8		
Jan-17	5:43:40	43.4	40.8		
Jan-17	5:43:50	39.2	38.1		
Jan-17	5:44:00	40.3	42.7		
Jan-17	5:44:10	45.2	50.8		
Jan-17	5:44:20	44.6	48.8		
Jan-17	5:44:30	44.6	43.7		
Jan-17	5:44:40	44.6	43.1		
Jan-17	5:44:50	43.6	42.9		
Jan-17	5:45:00	44.1	42.5		
Jan-17	5:45:10	46.3	47.1		
Jan-17	5:45:20	50.0	50.9		
Jan-17	5:45:30	51.1	53.9	Airplane	Airplane
Jan-17	5:45:40	53.5	55.6	Airplane	Airplane
Jan-17	5:45:50	54.5	56.1	Airplane	Airplane
Jan-17	5:46:00	54.4	55.3	Airplane	Airplane
Jan-17	5:46:10	51.1	52.8	Airplane	Airplane
Jan-17	5:46:20	48.1	50.8	Airplane	Airplane
Jan-17	5:46:30	46.9	46.0	Airplane	Airplane
Jan-17	5:46:40	45.4	43.5	Airplane	Airplane
Jan-17	5:46:50	43.5	44.1	Airplane	Airplane
Jan-17	5:47:00	42.3	43.7		
Jan-17	5:47:10	42.8	48.3		
Jan-17	5:47:20	44.3	45.3		
Jan-17	5:47:30	41.0	42.8		
Jan-17	5:47:40	39.8	39.8		
Jan-17	5:47:50	40.6	41.2		
Jan-17	5:48:00	42.4	50.9		Traffic Noise
Jan-17	5:48:10	41.6	51.7		Traffic Noise
Jan-17	5:48:20	43.6	43.3		
Jan-17	5:48:30	40.9	48.0		
Jan-17	5:48:40	41.8	44.0		
Jan-17	5:48:50	42.3	42.9		
Jan-17	5:49:00	43.2	45.5		
Jan-17	5:49:10	45.7	44.1		
Jan-17	5:49:20	41.8	46.1		
Jan-17	5:49:30	44.0	50.3		
Jan-17	5:49:40	43.4	49.4		
Jan-17	5:49:50	39.9	41.7		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
43.3	**46.8**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	5:50:00	35.9	41.7		
Jan-17	5:50:10	37.7	37.7		
Jan-17	5:50:20	37.6	40.5		
Jan-17	5:50:30	42.5	51.6		
Jan-17	5:50:40	44.0	51.8		
Jan-17	5:50:50	42.1	43.9		
Jan-17	5:51:00	42.5	42.8		
Jan-17	5:51:10	43.6	43.5		
Jan-17	5:51:20	43.3	43.6		
Jan-17	5:51:30	41.6	41.5		
Jan-17	5:51:40	41.0	43.1		
Jan-17	5:51:50	42.0	50.9		
Jan-17	5:52:00	43.8	52.0		
Jan-17	5:52:10	41.1	45.1		
Jan-17	5:52:20	40.3	40.5		
Jan-17	5:52:30	43.8	46.1		
Jan-17	5:52:40	43.6	43.7		
Jan-17	5:52:50	40.2	47.5		
Jan-17	5:53:00	40.4	42.1		
Jan-17	5:53:10	42.9	41.9		
Jan-17	5:53:20	42.1	41.9	Pinard Waste Activity	
Jan-17	5:53:30	47.2	43.9	Pinard Waste Activity	
Jan-17	5:53:40	41.8	46.5	Pinard Waste Activity	
Jan-17	5:53:50	42.6	54.0	Pinard Waste Activity	
Jan-17	5:54:00	43.8	51.3	Pinard Waste Activity	
Jan-17	5:54:10	41.7	43.6		
Jan-17	5:54:20	38.7	40.3		
Jan-17	5:54:30	38.1	40.6		
Jan-17	5:54:40	41.8	50.2		
Jan-17	5:54:50	42.4	51.4		
Jan-17	5:55:00	42.8	46.1		
Jan-17	5:55:10	44.6	51.1		
Jan-17	5:55:20	40.8	49.6		
Jan-17	5:55:30	43.4	49.9		
Jan-17	5:55:40	44.9	48.3		
Jan-17	5:55:50	45.6	46.9	Pinard Waste Activity	
Jan-17	5:56:00	41.3	41.5	Pinard Waste Activity	
Jan-17	5:56:10	41.9	45.6	Pinard Waste Activity	
Jan-17	5:56:20	42.8	49.3		
Jan-17	5:56:30	43.2	48.6		
Jan-17	5:56:40	42.6	45.8		
Jan-17	5:56:50	43.4	47.8		
Jan-17	5:57:00	43.8	53.3		
Jan-17	5:57:10	46.0	55.7		
Jan-17	5:57:20	45.9	51.0		
Jan-17	5:57:30	46.5	51.8		
Jan-17	5:57:40	44.6	48.3		
Jan-17	5:57:50	45.7	46.7		
Jan-17	5:58:00	45.6	43.2		
Jan-17	5:58:10	43.0	42.5		
Jan-17	5:58:20	44.7	42.5		
Jan-17	5:58:30	44.0	49.2		
Jan-17	5:58:40	45.0	49.0		
Jan-17	5:58:50	43.2	49.2		
Jan-17	5:59:00	39.9	43.3		
Jan-17	5:59:10	42.4	45.9		
Jan-17	5:59:20	46.2	51.5		
Jan-17	5:59:30	44.2	49.1		
Jan-17	5:59:40	43.4	49.9		
Jan-17	5:59:50	44.7	52.2		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
43.3	**48.6**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	6:00:00	45.3	54.1		
Jan-17	6:00:10	49.5	50.1		
Jan-17	6:00:20	47.1	44.8		
Jan-17	6:00:30	43.4	43.3		
Jan-17	6:00:40	44.0	45.6		
Jan-17	6:00:50	42.4	49.1		
Jan-17	6:01:00	40.5	49.0		
Jan-17	6:01:10	42.4	44.8		
Jan-17	6:01:20	43.2	41.5		
Jan-17	6:01:30	42.9	48.5		
Jan-17	6:01:40	40.1	48.4		
Jan-17	6:01:50	42.9	46.7		
Jan-17	6:02:00	47.0	50.2		
Jan-17	6:02:10	44.5	50.4		
Jan-17	6:02:20	49.0	51.6		
Jan-17	6:02:30	56.1	57.0	Airplane	Airplane
Jan-17	6:02:40	61.5	61.8	Airplane	Airplane
Jan-17	6:02:50	60.1	61.7	Airplane	Airplane
Jan-17	6:03:00	54.7	57.3	Airplane	Airplane
Jan-17	6:03:10	52.0	55.1	Airplane	Airplane
Jan-17	6:03:20	50.9	52.1	Airplane	Airplane
Jan-17	6:03:30	44.1	45.4	Airplane	Airplane
Jan-17	6:03:40	43.5	44.5	Airplane	Airplane
Jan-17	6:03:50	42.6	42.7	Airplane	Airplane
Jan-17	6:04:00	42.8	47.0	Airplane	Airplane
Jan-17	6:04:10	43.9	48.3	Airplane	Airplane
Jan-17	6:04:20	46.4	53.5	Airplane	Airplane
Jan-17	6:04:30	48.4	54.8		Resident Walking
Jan-17	6:04:40	44.8	49.9		Resident Walking
Jan-17	6:04:50	42.9	50.0		Resident Walking
Jan-17	6:05:00	44.2	43.2		
Jan-17	6:05:10	44.9	49.0		Resident Walking
Jan-17	6:05:20	47.4	45.4		Resident Walking
Jan-17	6:05:30	45.1	54.3		Resident Walking
Jan-17	6:05:40	45.2	53.1		Resident Walking
Jan-17	6:05:50	44.6	49.1		
Jan-17	6:06:00	46.6	53.0		Resident Walking
Jan-17	6:06:10	45.6	49.6		
Jan-17	6:06:20	42.9	50.2		
Jan-17	6:06:30	42.1	49.1		
Jan-17	6:06:40	44.0	47.3		
Jan-17	6:06:50	44.9	52.4		
Jan-17	6:07:00	46.8	52.7		
Jan-17	6:07:10	47.6	52.7	Airplane	Airplane
Jan-17	6:07:20	50.9	54.1	Airplane	Airplane
Jan-17	6:07:30	50.8	53.0	Airplane	Airplane
Jan-17	6:07:40	48.7	50.8	Airplane	Airplane
Jan-17	6:07:50	48.7	50.6	Airplane	Airplane
Jan-17	6:08:00	49.8	51.3	Airplane	Airplane
Jan-17	6:08:10	46.9	52.2	Airplane	Airplane
Jan-17	6:08:20	48.1	50.5	Airplane	Airplane
Jan-17	6:08:30	44.3	47.5		
Jan-17	6:08:40	44.5	44.9		
Jan-17	6:08:50	48.6	47.4		
Jan-17	6:09:00	46.9	46.7		
Jan-17	6:09:10	40.8	43.0		
Jan-17	6:09:20	44.5	45.0		
Jan-17	6:09:30	42.4	51.9		
Jan-17	6:09:40	43.2	48.8		
Jan-17	6:09:50	45.2	47.5		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
45.2	**49.0**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	6:10:00	44.6	42.6		
Jan-17	6:10:10	42.4	46.5		
Jan-17	6:10:20	40.8	42.2		
Jan-17	6:10:30	42.7	44.6	Pinard Waste Activity	
Jan-17	6:10:40	47.2	47.8	Pinard Waste Activity	
Jan-17	6:10:50	47.5	47.8	Pinard Waste Activity	
Jan-17	6:11:00	44.1	47.0	Pinard Waste Activity	
Jan-17	6:11:10	44.5	44.5	Pinard Waste Activity	
Jan-17	6:11:20	42.1	45.7	Pinard Waste Activity	
Jan-17	6:11:30	42.9	47.8	Pinard Waste Activity	
Jan-17	6:11:40	42.9	49.5	Pinard Waste Activity	
Jan-17	6:11:50	42.9	51.4	Pinard Waste Activity	
Jan-17	6:12:00	43.2	47.5		
Jan-17	6:12:10	43.5	42.8		
Jan-17	6:12:20	43.2	43.3		
Jan-17	6:12:30	40.5	40.2		
Jan-17	6:12:40	39.6	38.9		
Jan-17	6:12:50	40.7	44.3		
Jan-17	6:13:00	41.1	50.8		
Jan-17	6:13:10	41.9	41.8		
Jan-17	6:13:20	43.7	42.1		
Jan-17	6:13:30	41.0	43.5		
Jan-17	6:13:40	43.0	45.0		
Jan-17	6:13:50	44.9	46.7		
Jan-17	6:14:00	47.4	53.1	Car	Car
Jan-17	6:14:10	56.6	50.7	Car	Car
Jan-17	6:14:20	58.8	53.3	Car	Car
Jan-17	6:14:30	52.1	63.3	Car	Car
Jan-17	6:14:40	40.3	62.3	Car	Car
Jan-17	6:14:50	42.5	55.3	Pinard Waste Activity	Car
Jan-17	6:15:00	43.1	44.3	Pinard Waste Activity	
Jan-17	6:15:10	47.6	45.1	Pinard Waste Activity	
Jan-17	6:15:20	44.0	46.5	Pinard Waste Activity	
Jan-17	6:15:30	42.7	54.0	Pinard Waste Activity	
Jan-17	6:15:40	45.9	55.3	Pinard Waste Activity	
Jan-17	6:15:50	45.7	51.4	Pinard Waste Activity	
Jan-17	6:16:00	45.3	51.0	Pinard Waste Activity	
Jan-17	6:16:10	44.7	48.3	Pinard Waste Activity	
Jan-17	6:16:20	42.3	47.6	Pinard Waste Activity	
Jan-17	6:16:30	41.4	43.0	Pinard Waste Activity	
Jan-17	6:16:40	43.5	43.4	Pinard Waste Activity	
Jan-17	6:16:50	44.0	46.2	Pinard Waste Activity	
Jan-17	6:17:00	40.0	45.4		
Jan-17	6:17:10	42.5	49.8		
Jan-17	6:17:20	42.9	45.5		
Jan-17	6:17:30	41.5	45.0		
Jan-17	6:17:40	43.3	42.4		
Jan-17	6:17:50	42.7	40.2	Pinard Waste Activity	
Jan-17	6:18:00	42.5	44.2	Pinard Waste Activity	
Jan-17	6:18:10	45.3	51.0	Pinard Waste Activity	
Jan-17	6:18:20	47.8	49.0		
Jan-17	6:18:30	47.7	46.8		
Jan-17	6:18:40	43.9	50.9		
Jan-17	6:18:50	42.0	41.6		
Jan-17	6:19:00	44.9	46.2		
Jan-17	6:19:10	45.5	44.2		
Jan-17	6:19:20	46.6	46.8		
Jan-17	6:19:30	43.7	50.5		
Jan-17	6:19:40	42.4	48.3		
Jan-17	6:19:50	41.8	43.9		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
43.9	**47.7**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	6:20:00	44.1	44.6		
Jan-17	6:20:10	44.4	44.9		
Jan-17	6:20:20	48.2	49.8		
Jan-17	6:20:30	45.4	53.3		
Jan-17	6:20:40	46.6	53.2		
Jan-17	6:20:50	44.6	50.2		
Jan-17	6:21:00	43.7	48.3		
Jan-17	6:21:10	43.1	44.5		
Jan-17	6:21:20	45.9	48.7	Pinard Waste Activity	
Jan-17	6:21:30	46.0	55.0	Pinard Waste Activity	
Jan-17	6:21:40	43.4	61.1	Pinard Waste Activity	
Jan-17	6:21:50	56.0	43.8		
Jan-17	6:22:00	58.2	49.8		
Jan-17	6:22:10	46.7	53.0		
Jan-17	6:22:20	48.8	48.6		
Jan-17	6:22:30	44.7	44.1		
Jan-17	6:22:40	44.1	42.6	Pinard Waste Activity	
Jan-17	6:22:50	44.6	44.5	Pinard Waste Activity	
Jan-17	6:23:00	43.0	47.6	Pinard Waste Activity	
Jan-17	6:23:10	44.4	48.4	Pinard Waste Activity	
Jan-17	6:23:20	43.8	49.5	Pinard Waste Activity	
Jan-17	6:23:30	45.1	44.8	Pinard Waste Activity	
Jan-17	6:23:40	43.7	47.5	Pinard Waste Activity	
Jan-17	6:23:50	42.3	40.3	Pinard Waste Activity	
Jan-17	6:24:00	43.0	40.4	Pinard Waste Activity	
Jan-17	6:24:10	43.4	42.5	Pinard Waste Activity	
Jan-17	6:24:20	46.2	52.0		
Jan-17	6:24:30	46.3	50.6		
Jan-17	6:24:40	44.2	49.6		
Jan-17	6:24:50	43.9	47.5		
Jan-17	6:25:00	44.3	43.8		
Jan-17	6:25:10	45.6	45.0		
Jan-17	6:25:20	44.8	43.5		
Jan-17	6:25:30	43.3	48.6		
Jan-17	6:25:40	45.2	52.4		
Jan-17	6:25:50	46.0	51.3		
Jan-17	6:26:00	46.3	45.8		
Jan-17	6:26:10	47.1	44.7		
Jan-17	6:26:20	47.2	47.5		
Jan-17	6:26:30	43.1	44.7		
Jan-17	6:26:40	43.0	45.2		
Jan-17	6:26:50	45.3	49.8		
Jan-17	6:27:00	47.3	50.9		
Jan-17	6:27:10	44.4	46.9		
Jan-17	6:27:20	44.3	46.4		
Jan-17	6:27:30	45.1	46.1	Pinard Waste Activity	
Jan-17	6:27:40	46.4	44.2	Pinard Waste Activity	
Jan-17	6:27:50	44.4	41.0	Pinard Waste Activity	
Jan-17	6:28:00	40.9	41.6	Car	
Jan-17	6:28:10	51.4	44.5	Car	Car
Jan-17	6:28:20	60.1	61.0	Car	Car
Jan-17	6:28:30	46.0	55.1	Car	Car
Jan-17	6:28:40	44.9	63.5		Car
Jan-17	6:28:50	43.7	46.0		
Jan-17	6:29:00	50.5	48.9		
Jan-17	6:29:10	45.4	47.7		
Jan-17	6:29:20	42.5	44.7		
Jan-17	6:29:30	43.4	48.7		
Jan-17	6:29:40	45.3	49.3		
Jan-17	6:29:50	49.8	54.6	Traffic Noise	Traffic Noise

Location #1 L_{AEQ}	Location #2 L_{AEQ}
47.2	**49.7**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	6:30:00	46.4	60.1		Traffic Noise
Jan-17	6:30:10	44.1	47.6		
Jan-17	6:30:20	47.8	43.1		
Jan-17	6:30:30	44.4	43.5		
Jan-17	6:30:40	45.1	43.8		
Jan-17	6:30:50	47.0	43.8		
Jan-17	6:31:00	44.6	47.3		
Jan-17	6:31:10	45.0	51.3		
Jan-17	6:31:20	46.7	49.4		
Jan-17	6:31:30	42.7	45.7		
Jan-17	6:31:40	43.9	44.7		
Jan-17	6:31:50	44.6	43.9	Pinard Waste Activity	
Jan-17	6:32:00	43.9	44.4	Pinard Waste Activity	
Jan-17	6:32:10	45.8	45.0	Pinard Waste Activity	
Jan-17	6:32:20	44.7	48.4	Pinard Waste Activity	
Jan-17	6:32:30	45.7	51.2		
Jan-17	6:32:40	45.2	52.4		
Jan-17	6:32:50	45.7	50.1		
Jan-17	6:33:00	44.5	46.3		
Jan-17	6:33:10	45.9	42.1	Pinard Waste Activity	
Jan-17	6:33:20	46.2	44.1	Pinard Waste Activity	
Jan-17	6:33:30	43.5	45.6	Pinard Waste Activity	
Jan-17	6:33:40	48.3	45.5	Pinard Waste Activity	
Jan-17	6:33:50	48.8	47.7	Pinard Waste Activity	
Jan-17	6:34:00	46.2	49.0	Pinard Waste Activity	
Jan-17	6:34:10	50.1	49.0	Pinard Waste Activity	
Jan-17	6:34:20	49.2	47.6	Pinard Waste Activity	
Jan-17	6:34:30	44.7	46.0	Pinard Waste Activity	
Jan-17	6:34:40	45.2	50.6	Pinard Waste Activity	Pinard Waste Activity
Jan-17	6:34:50	46.5	51.4	Pinard Waste Activity	Pinard Waste Activity
Jan-17	6:35:00	44.5	52.7		
Jan-17	6:35:10	46.7	53.5		
Jan-17	6:35:20	45.3	51.8		
Jan-17	6:35:30	45.0	49.1	Pinard Waste Activity	
Jan-17	6:35:40	50.8	56.4	Pinard Waste Activity	
Jan-17	6:35:50	46.2	51.0	Pinard Waste Activity	
Jan-17	6:36:00	45.7	44.4	Pinard Waste Activity	
Jan-17	6:36:10	46.6	47.5	Pinard Waste Activity	
Jan-17	6:36:20	48.1	51.7	Pinard Waste Activity	
Jan-17	6:36:30	51.7	52.1	Pinard Waste Activity	
Jan-17	6:36:40	52.2	47.2	Pinard Waste Activity	
Jan-17	6:36:50	52.4	47.3	Pinard Waste Activity	
Jan-17	6:37:00	52.2	46.2	Pinard Waste Activity	
Jan-17	6:37:10	53.1	48.3	Pinard Waste Activity	
Jan-17	6:37:20	53.7	48.1	Pinard Waste Activity	
Jan-17	6:37:30	52.3	55.3	Pinard Waste Activity	
Jan-17	6:37:40	54.5	57.8	Pinard Waste Activity	
Jan-17	6:37:50	51.7	50.0	Pinard Waste Activity	
Jan-17	6:38:00	50.8	50.3	Pinard Waste Activity	
Jan-17	6:38:10	50.7	47.2	Pinard Waste Activity	
Jan-17	6:38:20	50.0	44.4	Pinard Waste Activity	
Jan-17	6:38:30	50.9	47.6	Pinard Waste Activity	
Jan-17	6:38:40	50.6	47.7	Pinard Waste Activity	
Jan-17	6:38:50	49.8	49.9	Pinard Waste Activity	
Jan-17	6:39:00	50.8	54.1	Pinard Waste Activity	
Jan-17	6:39:10	52.3	58.2	Pinard Waste Activity	
Jan-17	6:39:20	52.0	54.4	Pinard Waste Activity	
Jan-17	6:39:30	50.5	47.8	Pinard Waste Activity	
Jan-17	6:39:40	49.3	44.6	Pinard Waste Activity	
Jan-17	6:39:50	50.1	45.2	Pinard Waste Activity	

Location #1 L_{AEQ}	Location #2 L_{AEQ}
49.0	**50.4**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	6:40:00	51.8	50.6	Pinard Waste Activity	
Jan-17	6:40:10	50.9	53.6	Pinard Waste Activity	
Jan-17	6:40:20	51.0	57.6	Pinard Waste Activity	
Jan-17	6:40:30	50.3	49.2	Pinard Waste Activity	
Jan-17	6:40:40	49.1	45.6	Pinard Waste Activity	
Jan-17	6:40:50	49.6	48.7	Pinard Waste Activity	
Jan-17	6:41:00	50.7	50.9	Airplane	Airplane
Jan-17	6:41:10	52.0	53.0	Airplane	Airplane
Jan-17	6:41:20	54.5	55.0	Airplane	Airplane
Jan-17	6:41:30	56.0	57.8	Airplane	Airplane
Jan-17	6:41:40	55.8	60.5	Airplane	Airplane
Jan-17	6:41:50	53.7	56.0	Airplane	Airplane
Jan-17	6:42:00	52.5	55.6	Airplane	Airplane
Jan-17	6:42:10	51.2	56.0	Airplane	Airplane
Jan-17	6:42:20	50.1	50.0	Pinard Waste Activity	
Jan-17	6:42:30	48.9	48.9	Pinard Waste Activity	
Jan-17	6:42:40	50.2	47.2	Pinard Waste Activity	
Jan-17	6:42:50	51.9	50.2	Pinard Waste Activity	
Jan-17	6:43:00	51.9	48.3	Pinard Waste Activity	
Jan-17	6:43:10	48.5	48.2	Pinard Waste Activity	
Jan-17	6:43:20	48.4	51.3	Pinard Waste Activity	
Jan-17	6:43:30	49.6	53.6	Pinard Waste Activity	
Jan-17	6:43:40	49.7	52.3	Pinard Waste Activity	
Jan-17	6:43:50	50.3	52.4	Pinard Waste Activity	
Jan-17	6:44:00	49.5	51.6	Pinard Waste Activity	
Jan-17	6:44:10	48.4	47.1	Pinard Waste Activity	
Jan-17	6:44:20	48.5	42.7	Pinard Waste Activity	
Jan-17	6:44:30	48.3	42.0	Pinard Waste Activity	
Jan-17	6:44:40	48.3	44.6	Pinard Waste Activity	
Jan-17	6:44:50	49.0	43.8	Pinard Waste Activity	
Jan-17	6:45:00	48.8	46.4	Pinard Waste Activity	
Jan-17	6:45:10	49.0	51.0	Pinard Waste Activity	
Jan-17	6:45:20	50.0	52.0	Pinard Waste Activity	
Jan-17	6:45:30	49.9	50.9	Pinard Waste Activity	
Jan-17	6:45:40	49.5	46.3	Pinard Waste Activity	
Jan-17	6:45:50	50.9	48.2	Pinard Waste Activity	
Jan-17	6:46:00	50.0	46.0	Pinard Waste Activity	
Jan-17	6:46:10	51.5	50.7	Pinard Waste Activity	
Jan-17	6:46:20	51.8	56.3	Pinard Waste Activity	
Jan-17	6:46:30	51.1	56.0	Pinard Waste Activity	
Jan-17	6:46:40	50.7	52.5	Pinard Waste Activity	
Jan-17	6:46:50	50.1	50.8	Pinard Waste Activity	
Jan-17	6:47:00	48.9	50.5	Pinard Waste Activity	
Jan-17	6:47:10	48.6	48.7	Pinard Waste Activity	
Jan-17	6:47:20	48.7	47.6	Pinard Waste Activity	
Jan-17	6:47:30	52.2	46.9	Pinard Waste Activity	
Jan-17	6:47:40	46.4	46.7	Pinard Waste Activity	Pinard Waste Activity
Jan-17	6:47:50	46.5	47.7	Pinard Waste Activity	Pinard Waste Activity
Jan-17	6:48:00	45.8	45.1	Pinard Waste Activity	Pinard Waste Activity
Jan-17	6:48:10	46.9	50.6	Pinard Waste Activity	
Jan-17	6:48:20	46.3	48.4	Pinard Waste Activity	
Jan-17	6:48:30	45.7	45.3	Pinard Waste Activity	
Jan-17	6:48:40	47.2	55.4	Pinard Waste Activity	
Jan-17	6:48:50	47.8	54.4	Pinard Waste Activity	
Jan-17	6:49:00	46.8	45.8	Pinard Waste Activity	
Jan-17	6:49:10	46.7	47.2	Pinard Waste Activity	
Jan-17	6:49:20	46.3	50.9	Pinard Waste Activity	
Jan-17	6:49:30	47.1	51.6	Pinard Waste Activity	
Jan-17	6:49:40	46.6	51.0	Pinard Waste Activity	
Jan-17	6:49:50	46.1	48.6	Pinard Waste Activity	

Location #1 L_{AEQ}	Location #2 L_{AEQ}
49.4	**50.8**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	6:50:00	45.3	45.6	Pinard Waste Activity	
Jan-17	6:50:10	47.1	48.1	Pinard Waste Activity	
Jan-17	6:50:20	45.6	44.3	Pinard Waste Activity	
Jan-17	6:50:30	44.1	42.5	Pinard Waste Activity	
Jan-17	6:50:40	44.8	44.2	Pinard Waste Activity	
Jan-17	6:50:50	45.1	42.2	Pinard Waste Activity	
Jan-17	6:51:00	45.7	45.3	Pinard Waste Activity	
Jan-17	6:51:10	47.1	49.8	Pinard Waste Activity	
Jan-17	6:51:20	46.6	48.4	Pinard Waste Activity	
Jan-17	6:51:30	46.1	47.6	Pinard Waste Activity	
Jan-17	6:51:40	46.7	51.4	Pinard Waste Activity	
Jan-17	6:51:50	46.0	47.5	Pinard Waste Activity	
Jan-17	6:52:00	46.1	44.8	Pinard Waste Activity	
Jan-17	6:52:10	43.9	46.7	Pinard Waste Activity	
Jan-17	6:52:20	45.6	43.0	Pinard Waste Activity	
Jan-17	6:52:30	44.5	44.9	Pinard Waste Activity	
Jan-17	6:52:40	47.6	50.1	Pinard Waste Activity	
Jan-17	6:52:50	46.6	50.0	Pinard Waste Activity	
Jan-17	6:53:00	46.0	47.1	Pinard Waste Activity	
Jan-17	6:53:10	45.1	47.3	Pinard Waste Activity	
Jan-17	6:53:20	44.4	44.3	Pinard Waste Activity	
Jan-17	6:53:30	43.7	42.5	Pinard Waste Activity	
Jan-17	6:53:40	44.9	42.6	Pinard Waste Activity	
Jan-17	6:53:50	44.6	43.3	Pinard Waste Activity	
Jan-17	6:54:00	46.1	45.9	Pinard Waste Activity	
Jan-17	6:54:10	45.7	47.9	Pinard Waste Activity	
Jan-17	6:54:20	46.9	47.8	Pinard Waste Activity	
Jan-17	6:54:30	48.0	43.5	Pinard Waste Activity	
Jan-17	6:54:40	46.8	49.8	Pinard Waste Activity	
Jan-17	6:54:50	46.2	50.9	Pinard Waste Activity	
Jan-17	6:55:00	45.0	43.8	Pinard Waste Activity	
Jan-17	6:55:10	46.1	44.4	Pinard Waste Activity	
Jan-17	6:55:20	45.1	44.2	Pinard Waste Activity	
Jan-17	6:55:30	45.6	46.8	Pinard Waste Activity	
Jan-17	6:55:40	46.8	50.1	Pinard Waste Activity	
Jan-17	6:55:50	47.1	52.6	Pinard Waste Activity	
Jan-17	6:56:00	47.1	51.7	Pinard Waste Activity	
Jan-17	6:56:10	48.2	48.7	Pinard Waste Activity	
Jan-17	6:56:20	49.4	48.2	Pinard Waste Activity	
Jan-17	6:56:30	46.5	47.5	Pinard Waste Activity	
Jan-17	6:56:40	47.2	45.3	Pinard Waste Activity	
Jan-17	6:56:50	45.0	45.7	Pinard Waste Activity	
Jan-17	6:57:00	47.9	54.7	Pinard Waste Activity	
Jan-17	6:57:10	47.5	52.1	Pinard Waste Activity	
Jan-17	6:57:20	45.9	54.3	Pinard Waste Activity	
Jan-17	6:57:30	46.9	54.0	Pinard Waste Activity	
Jan-17	6:57:40	46.9	50.7	Pinard Waste Activity	
Jan-17	6:57:50	47.6	51.1	Pinard Waste Activity	
Jan-17	6:58:00	49.3	48.1	Pinard Waste Activity	
Jan-17	6:58:10	48.1	47.4	Pinard Waste Activity	
Jan-17	6:58:20	46.5	46.3	Pinard Waste Activity	
Jan-17	6:58:30	48.2	48.8	Pinard Waste Activity	
Jan-17	6:58:40	45.2	46.0	Pinard Waste Activity	
Jan-17	6:58:50	47.8	44.9		
Jan-17	6:59:00	46.5	51.0		
Jan-17	6:59:10	47.9	51.6	Pinard Waste Activity	
Jan-17	6:59:20	46.1	49.9	Pinard Waste Activity	
Jan-17	6:59:30	46.4	45.2	Pinard Waste Activity	
Jan-17	6:59:40	48.2	43.2	Pinard Waste Activity	
Jan-17	6:59:50	44.3	42.0	Pinard Waste Activity	

Location #1 L_{AEQ}	Location #2 L_{AEQ}
46.5	**48.6**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	7:00:00	46.1	43.7	Pinard Waste Activity	
Jan-17	7:00:10	47.0	46.7	Pinard Waste Activity	
Jan-17	7:00:20	45.4	45.9	Pinard Waste Activity	
Jan-17	7:00:30	46.3	49.5	Pinard Waste Activity	
Jan-17	7:00:40	46.9	50.3	Pinard Waste Activity	
Jan-17	7:00:50	47.2	50.7	Pinard Waste Activity	
Jan-17	7:01:00	47.5	51.7	Pinard Waste Activity	
Jan-17	7:01:10	47.2	48.4	Pinard Waste Activity	
Jan-17	7:01:20	50.1	46.0	Pinard Waste Activity	
Jan-17	7:01:30	46.3	45.7	Pinard Waste Activity	
Jan-17	7:01:40	44.7	44.5	Pinard Waste Activity	
Jan-17	7:01:50	44.7	43.2	Pinard Waste Activity	
Jan-17	7:02:00	45.3	49.8	Pinard Waste Activity	
Jan-17	7:02:10	44.6	47.8	Pinard Waste Activity	
Jan-17	7:02:20	44.6	48.4		
Jan-17	7:02:30	45.9	44.6	Pinard Waste Activity	
Jan-17	7:02:40	46.3	44.0	Pinard Waste Activity	
Jan-17	7:02:50	45.2	47.4	Pinard Waste Activity	
Jan-17	7:03:00	47.7	49.7	Pinard Waste Activity	
Jan-17	7:03:10	48.1	50.8	Pinard Waste Activity	
Jan-17	7:03:20	48.8	49.1	Pinard Waste Activity	
Jan-17	7:03:30	46.3	47.5	Pinard Waste Activity	
Jan-17	7:03:40	46.3	48.4	Pinard Waste Activity	
Jan-17	7:03:50	44.7	46.0	Pinard Waste Activity	
Jan-17	7:04:00	43.7	42.7		
Jan-17	7:04:10	49.1	47.1		
Jan-17	7:04:20	52.0	51.8		
Jan-17	7:04:30	49.5	50.5		
Jan-17	7:04:40	46.0	48.9	Pinard Waste Activity	
Jan-17	7:04:50	45.7	51.0	Pinard Waste Activity	
Jan-17	7:05:00	47.0	49.2	Pinard Waste Activity	
Jan-17	7:05:10	48.2	48.4	Pinard Waste Activity	
Jan-17	7:05:20	46.2	46.6	Pinard Waste Activity	
Jan-17	7:05:30	47.0	43.8	Pinard Waste Activity	
Jan-17	7:05:40	46.1	45.0	Pinard Waste Activity	
Jan-17	7:05:50	46.9	45.9	Pinard Waste Activity	
Jan-17	7:06:00	51.0	51.2	Pinard Waste Activity	
Jan-17	7:06:10	46.3	51.8		
Jan-17	7:06:20	46.0	51.4		Pinard Waste Activity
Jan-17	7:06:30	45.0	46.0		Pinard Waste Activity
Jan-17	7:06:40	46.3	46.8		Pinard Waste Activity
Jan-17	7:06:50	49.9	47.6		
Jan-17	7:07:00	48.9	50.2		
Jan-17	7:07:10	48.3	50.9		
Jan-17	7:07:20	47.4	51.7		
Jan-17	7:07:30	44.9	49.9		
Jan-17	7:07:40	45.2	47.2		
Jan-17	7:07:50	43.0	45.3		
Jan-17	7:08:00	45.7	47.5		
Jan-17	7:08:10	47.7	53.9		
Jan-17	7:08:20	50.0	51.0		
Jan-17	7:08:30	57.9	56.5	Traffic Noise	Traffic Noise
Jan-17	7:08:40	61.9	64.5	Traffic Noise	Traffic Noise
Jan-17	7:08:50	55.9	58.9	Traffic Noise	Traffic Noise
Jan-17	7:09:00	50.4	50.9		
Jan-17	7:09:10	47.4	47.7		
Jan-17	7:09:20	46.1	45.1		
Jan-17	7:09:30	44.6	46.6	Pinard Waste Activity	
Jan-17	7:09:40	44.0	43.2	Pinard Waste Activity	
Jan-17	7:09:50	44.4	44.5	Pinard Waste Activity	

Location #1 L_{AEQ}	Location #2 L_{AEQ}
47.2	**48.7**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	7:10:00	45.4	44.2	Pinard Waste Activity	
Jan-17	7:10:10	45.7	46.1	Pinard Waste Activity	
Jan-17	7:10:20	45.9	46.8	Pinard Waste Activity	
Jan-17	7:10:30	46.3	48.3	Pinard Waste Activity	
Jan-17	7:10:40	46.3	48.2	Pinard Waste Activity	
Jan-17	7:10:50	44.3	45.2	Pinard Waste Activity	
Jan-17	7:11:00	43.9	44.7	Pinard Waste Activity	
Jan-17	7:11:10	46.2	49.6	Pinard Waste Activity	
Jan-17	7:11:20	46.8	47.0	Pinard Waste Activity	
Jan-17	7:11:30	45.5	44.3	Pinard Waste Activity	
Jan-17	7:11:40	46.8	45.4	Pinard Waste Activity	
Jan-17	7:11:50	46.0	49.1		
Jan-17	7:12:00	48.0	50.3		
Jan-17	7:12:10	49.5	51.5		
Jan-17	7:12:20	47.8	47.8		
Jan-17	7:12:30	45.4	60.8		
Jan-17	7:12:40	45.7	48.9		
Jan-17	7:12:50	47.7	49.0		
Jan-17	7:13:00	47.0	47.2		
Jan-17	7:13:10	45.3	49.6		
Jan-17	7:13:20	47.4	45.3		
Jan-17	7:13:30	46.2	48.9		
Jan-17	7:13:40	45.7	51.2		
Jan-17	7:13:50	45.0	46.5		
Jan-17	7:14:00	44.0	44.3		
Jan-17	7:14:10	46.6	48.9	Pinard Waste Activity	
Jan-17	7:14:20	47.7	48.3	Pinard Waste Activity	
Jan-17	7:14:30	47.1	47.1	Pinard Waste Activity	
Jan-17	7:14:40	46.4	46.7	Pinard Waste Activity	
Jan-17	7:14:50	45.2	48.0	Pinard Waste Activity	
Jan-17	7:15:00	46.0	46.3	Pinard Waste Activity	
Jan-17	7:15:10	46.3	44.0	Pinard Waste Activity	
Jan-17	7:15:20	47.4	44.8	Pinard Waste Activity	
Jan-17	7:15:30	44.1	42.2	Pinard Waste Activity	
Jan-17	7:15:40	46.0	43.2	Pinard Waste Activity	
Jan-17	7:15:50	48.2	52.5	Pinard Waste Activity	
Jan-17	7:16:00	51.0	57.7	Pinard Waste Activity	
Jan-17	7:16:10	50.1	54.6	Pinard Waste Activity	
Jan-17	7:16:20	47.6	47.5	Pinard Waste Activity	
Jan-17	7:16:30	46.7	46.4		
Jan-17	7:16:40	44.5	44.2		
Jan-17	7:16:50	45.6	44.2		
Jan-17	7:17:00	53.0	45.4	Pinard Waste Activity	
Jan-17	7:17:10	51.4	48.6	Pinard Waste Activity	
Jan-17	7:17:20	48.8	50.8	Pinard Waste Activity	
Jan-17	7:17:30	51.3	49.0	Pinard Waste Activity	
Jan-17	7:17:40	52.2	46.6	Pinard Waste Activity	
Jan-17	7:17:50	49.3	45.1	Pinard Waste Activity	
Jan-17	7:18:00	46.1	44.1	Pinard Waste Activity	
Jan-17	7:18:10	47.0	52.3	Pinard Waste Activity	Pinard Waste Activity
Jan-17	7:18:20	49.0	55.9	Pinard Waste Activity	Pinard Waste Activity
Jan-17	7:18:30	47.7	51.9	Pinard Waste Activity	Pinard Waste Activity
Jan-17	7:18:40	46.4	52.8		
Jan-17	7:18:50	46.8	52.0		
Jan-17	7:19:00	47.7	51.3		
Jan-17	7:19:10	47.3	49.0		
Jan-17	7:19:20	46.5	48.7		
Jan-17	7:19:30	45.3	48.9		
Jan-17	7:19:40	44.3	46.5		
Jan-17	7:19:50	47.8	46.7		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
47.5	**50.2**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	7:20:00	47.0	50.1		
Jan-17	7:20:10	48.4	48.7		
Jan-17	7:20:20	46.5	47.3		
Jan-17	7:20:30	47.0	52.8		
Jan-17	7:20:40	48.1	49.7		
Jan-17	7:20:50	46.0	51.2		
Jan-17	7:21:00	46.9	50.1		
Jan-17	7:21:10	47.6	46.5		
Jan-17	7:21:20	47.3	47.8		
Jan-17	7:21:30	47.0	56.1		
Jan-17	7:21:40	50.4	57.8		
Jan-17	7:21:50	47.5	51.9		
Jan-17	7:22:00	47.1	50.2		
Jan-17	7:22:10	49.8	48.6		
Jan-17	7:22:20	45.3	49.2		
Jan-17	7:22:30	47.7	44.9		
Jan-17	7:22:40	45.9	43.6		
Jan-17	7:22:50	48.4	48.5		
Jan-17	7:23:00	45.9	49.6		
Jan-17	7:23:10	46.6	46.8		
Jan-17	7:23:20	45.7	47.5		
Jan-17	7:23:30	46.4	46.1		
Jan-17	7:23:40	46.3	47.7		
Jan-17	7:23:50	47.8	48.2		
Jan-17	7:24:00	45.9	48.3		
Jan-17	7:24:10	45.1	49.2		
Jan-17	7:24:20	46.2	48.9		
Jan-17	7:24:30	47.8	45.9		
Jan-17	7:24:40	46.7	48.3		
Jan-17	7:24:50	44.4	45.8		
Jan-17	7:25:00	44.3	43.1		
Jan-17	7:25:10	44.8	47.2		
Jan-17	7:25:20	46.3	51.4		
Jan-17	7:25:30	48.8	51.9		
Jan-17	7:25:40	45.1	47.7		
Jan-17	7:25:50	46.7	44.5		
Jan-17	7:26:00	43.0	45.3		
Jan-17	7:26:10	45.9	46.2		
Jan-17	7:26:20	50.5	53.3		
Jan-17	7:26:30	51.4	60.9		
Jan-17	7:26:40	48.1	54.5		
Jan-17	7:26:50	48.2	52.5		
Jan-17	7:27:00	47.7	53.2		
Jan-17	7:27:10	49.4	52.5		
Jan-17	7:27:20	48.7	47.2		
Jan-17	7:27:30	44.7	46.2		
Jan-17	7:27:40	47.2	47.6		
Jan-17	7:27:50	46.3	50.1		
Jan-17	7:28:00	47.3	48.3		
Jan-17	7:28:10	46.5	47.3		
Jan-17	7:28:20	45.6	51.1		
Jan-17	7:28:30	48.2	53.5		
Jan-17	7:28:40	47.8	51.1		
Jan-17	7:28:50	45.5	47.6		
Jan-17	7:29:00	46.7	46.5		
Jan-17	7:29:10	45.0	46.9		
Jan-17	7:29:20	47.1	43.4		
Jan-17	7:29:30	46.1	43.3	Pinard Waste Activity	
Jan-17	7:29:40	46.2	49.1	Pinard Waste Activity	
Jan-17	7:29:50	46.7	51.5	Pinard Waste Activity	

Location #1 L_{AEQ}	Location #2 L_{AEQ}
47.2	**50.8**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	7:30:00	47.4	49.6	Pinard Waste Activity	
Jan-17	7:30:10	47.0	45.4	Pinard Waste Activity	
Jan-17	7:30:20	45.6	47.5	Pinard Waste Activity	
Jan-17	7:30:30	43.2	47.0	Pinard Waste Activity	
Jan-17	7:30:40	44.8	49.0	Pinard Waste Activity	
Jan-17	7:30:50	48.1	48.2	Pinard Waste Activity	
Jan-17	7:31:00	46.3	45.2	Pinard Waste Activity	
Jan-17	7:31:10	44.2	45.4	Pinard Waste Activity	
Jan-17	7:31:20	46.2	46.3	Pinard Waste Activity	
Jan-17	7:31:30	49.2	44.2	Pinard Waste Activity	
Jan-17	7:31:40	46.2	44.4	Pinard Waste Activity	
Jan-17	7:31:50	45.5	49.0		
Jan-17	7:32:00	44.7	49.5		
Jan-17	7:32:10	45.5	48.1		
Jan-17	7:32:20	46.2	47.5		
Jan-17	7:32:30	46.5	45.7		
Jan-17	7:32:40	45.2	46.8		
Jan-17	7:32:50	44.0	51.2		
Jan-17	7:33:00	47.5	51.2		
Jan-17	7:33:10	49.5	47.0		
Jan-17	7:33:20	48.7	46.0		
Jan-17	7:33:30	48.5	46.5		
Jan-17	7:33:40	45.8	44.5		
Jan-17	7:33:50	48.9	52.3	Car	
Jan-17	7:34:00	58.6	55.1	Car	Car
Jan-17	7:34:10	53.2	55.7	Car	Car
Jan-17	7:34:20	46.4	54.9		Car
Jan-17	7:34:30	43.8	62.7		Car
Jan-17	7:34:40	44.6	51.7		
Jan-17	7:34:50	47.7	51.3		
Jan-17	7:35:00	48.1	47.0		
Jan-17	7:35:10	45.6	49.1		
Jan-17	7:35:20	47.6	50.0		
Jan-17	7:35:30	48.4	50.3		
Jan-17	7:35:40	48.9	51.6		
Jan-17	7:35:50	47.8	49.3		
Jan-17	7:36:00	48.0	45.5		
Jan-17	7:36:10	49.0	49.3		
Jan-17	7:36:20	47.2	48.9		
Jan-17	7:36:30	46.7	46.9		
Jan-17	7:36:40	46.7	48.3		
Jan-17	7:36:50	45.9	49.3		
Jan-17	7:37:00	47.1	48.7		
Jan-17	7:37:10	47.5	45.3	Pinard Waste Activity	
Jan-17	7:37:20	44.5	42.8	Pinard Waste Activity	
Jan-17	7:37:30	48.0	48.7	Pinard Waste Activity	
Jan-17	7:37:40	48.6	48.4	Pinard Waste Activity	
Jan-17	7:37:50	49.7	45.9	Pinard Waste Activity	
Jan-17	7:38:00	48.4	47.3	Pinard Waste Activity	
Jan-17	7:38:10	47.2	48.0	Pinard Waste Activity	
Jan-17	7:38:20	48.2	54.0	Pinard Waste Activity	
Jan-17	7:38:30	48.3	51.8	Pinard Waste Activity	
Jan-17	7:38:40	47.5	44.8	Pinard Waste Activity	
Jan-17	7:38:50	49.1	44.7	Pinard Waste Activity	
Jan-17	7:39:00	52.4	45.1	Pinard Waste Activity	
Jan-17	7:39:10	48.2	48.4	Pinard Waste Activity	
Jan-17	7:39:20	51.0	49.6	Pinard Waste Activity	
Jan-17	7:39:30	50.0	50.1	Pinard Waste Activity	
Jan-17	7:39:40	49.8	46.6	Pinard Waste Activity	
Jan-17	7:39:50	48.7	48.9	Pinard Waste Activity	

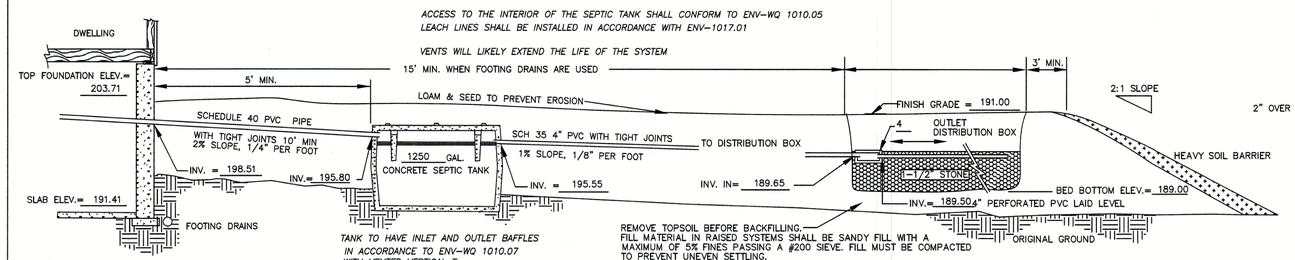
Location #1 L_{AEQ}	Location #2 L_{AEQ}
47.6	**48.6**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	7:40:00	50.6	52.1	Pinard Waste Activity	
Jan-17	7:40:10	53.8	54.1	Pinard Waste Activity	
Jan-17	7:40:20	54.9	55.4	Pinard Waste Activity	
Jan-17	7:40:30	55.2	55.7	Pinard Waste Activity	
Jan-17	7:40:40	53.1	53.7	Pinard Waste Activity	
Jan-17	7:40:50	52.1	50.9	Pinard Waste Activity	
Jan-17	7:41:00	51.8	47.5	Pinard Waste Activity	
Jan-17	7:41:10	51.5	45.7	Pinard Waste Activity	
Jan-17	7:41:20	47.8	49.7	Pinard Waste Activity	
Jan-17	7:41:30	47.7	48.6		
Jan-17	7:41:40	50.8	43.7	Pinard Waste Activity	
Jan-17	7:41:50	50.6	46.7	Pinard Waste Activity	
Jan-17	7:42:00	49.3	44.9	Pinard Waste Activity	
Jan-17	7:42:10	46.0	43.7	Pinard Waste Activity	
Jan-17	7:42:20	47.8	48.5	Pinard Waste Activity	
Jan-17	7:42:30	49.4	50.9	Pinard Waste Activity	
Jan-17	7:42:40	48.4	48.2	Pinard Waste Activity	
Jan-17	7:42:50	47.2	47.8	Pinard Waste Activity	
Jan-17	7:43:00	46.8	45.6	Pinard Waste Activity	
Jan-17	7:43:10	48.4	45.6	Pinard Waste Activity	
Jan-17	7:43:20	46.3	45.3	Pinard Waste Activity	
Jan-17	7:43:30	48.8	43.5	Pinard Waste Activity	
Jan-17	7:43:40	46.7	48.1	Pinard Waste Activity	
Jan-17	7:43:50	46.0	50.8	Pinard Waste Activity	
Jan-17	7:44:00	46.2	47.8	Pinard Waste Activity	
Jan-17	7:44:10	44.5	46.6	Pinard Waste Activity	
Jan-17	7:44:20	45.8	46.2	Pinard Waste Activity	
Jan-17	7:44:30	46.7	48.3		
Jan-17	7:44:40	45.8	52.5		
Jan-17	7:44:50	46.0	55.0		
Jan-17	7:45:00	46.1	49.1		
Jan-17	7:45:10	46.6	49.4		
Jan-17	7:45:20	47.7	49.3		
Jan-17	7:45:30	44.9	42.7		
Jan-17	7:45:40	46.9	49.4		
Jan-17	7:45:50	45.3	49.1		
Jan-17	7:46:00	44.6	46.1		
Jan-17	7:46:10	46.1	45.2		
Jan-17	7:46:20	48.1	49.8		
Jan-17	7:46:30	46.5	52.4		
Jan-17	7:46:40	45.9	49.3		
Jan-17	7:46:50	46.3	46.6		
Jan-17	7:47:00	46.8	46.2		
Jan-17	7:47:10	46.3	47.0		
Jan-17	7:47:20	45.9	49.2	Pinard Waste Activity	
Jan-17	7:47:30	45.9	49.7	Pinard Waste Activity	
Jan-17	7:47:40	45.7	51.0	Pinard Waste Activity	
Jan-17	7:47:50	48.4	50.4	Pinard Waste Activity	
Jan-17	7:48:00	47.3	48.3	Pinard Waste Activity	
Jan-17	7:48:10	45.0	44.9	Pinard Waste Activity	
Jan-17	7:48:20	46.2	45.3	Pinard Waste Activity	
Jan-17	7:48:30	49.5	49.2	Pinard Waste Activity	Pinard Waste Activity
Jan-17	7:48:40	55.1	51.3	Car	Pinard Waste Activity
Jan-17	7:48:50	49.8	49.6	Car	Pinard Waste Activity
Jan-17	7:49:00	45.8	57.6		Car
Jan-17	7:49:10	44.4	61.0		Car
Jan-17	7:49:20	44.9	45.8		
Jan-17	7:49:30	47.3	45.0	Car	
Jan-17	7:49:40	60.6	51.0	Car	
Jan-17	7:49:50	50.5	51.6	Car	

Location #1 L_{AEQ}	Location #2 L_{AEQ}
48.7	**49.7**

Date	Time	Location #1 L_{AEQ}	Location #2 L_{AEQ}	Location #1 Field Notes	Location #2 Field Notes
Jan-17	7:50:00	46.1	64.7		Operator Noise
Jan-17	7:50:10	45.3	50.7		
Jan-17	7:50:20	44.4	45.0		
Jan-17	7:50:30	42.7	42.3		
Jan-17	7:50:40	43.6	45.3		
Jan-17	7:50:50	42.3	44.3		
Jan-17	7:51:00	44.6	51.9		
Jan-17	7:51:10	44.6	50.3		
Jan-17	7:51:20	46.0	49.1		
Jan-17	7:51:30	46.1	48.5		
Jan-17	7:51:40	44.5	49.0		
Jan-17	7:51:50	42.8	47.2		
Jan-17	7:52:00	43.6	48.0		
Jan-17	7:52:10	44.7	45.4		
Jan-17	7:52:20	44.7	43.5		
Jan-17	7:52:30	47.7	44.3		
Jan-17	7:52:40	45.5	46.9		
Jan-17	7:52:50	45.3	44.5		
Jan-17	7:53:00	44.1	42.7		
Jan-17	7:53:10	43.2	42.5		
Jan-17	7:53:20	44.0	46.6		
Jan-17	7:53:30	46.7	48.2		
Jan-17	7:53:40	45.1	49.2		
Jan-17	7:53:50	44.4	49.1		
Jan-17	7:54:00	43.8	48.3		
Jan-17	7:54:10	44.7	48.0		
Jan-17	7:54:20	48.9	45.9		
Jan-17	7:54:30	46.0	42.1		
Jan-17	7:54:40	43.2	48.6		
Jan-17	7:54:50	43.3	46.2		
Jan-17	7:55:00	47.2	45.8		
Jan-17	7:55:10	45.8	45.3		
Jan-17	7:55:20	45.7	43.3		
Jan-17	7:55:30	47.2	48.7		
Jan-17	7:55:40	46.6	51.4		
Jan-17	7:55:50	47.7	49.0		
Jan-17	7:56:00	49.5	47.5		
Jan-17	7:56:10	47.0	49.4		
Jan-17	7:56:20	46.5	48.0		
Jan-17	7:56:30	45.0	46.9		
Jan-17	7:56:40	44.0	45.6		
Jan-17	7:56:50	45.7	42.9		
Jan-17	7:57:00	45.7	47.1		
Jan-17	7:57:10	46.0	49.9		
Jan-17	7:57:20	46.9	52.5		
Jan-17	7:57:30	47.3	63.1		Traffic Noise
Jan-17	7:57:40	52.9	49.1		
Jan-17	7:57:50	44.3	46.1		
Jan-17	7:58:00	44.3	42.6		
Jan-17	7:58:10	43.7	44.0		
Jan-17	7:58:20	42.7	42.0		
Jan-17	7:58:30	44.5	48.6		
Jan-17	7:58:40	46.1	48.7		
Jan-17	7:58:50	45.8	47.1		
Jan-17	7:59:00	48.3	47.2		
Jan-17	7:59:10	49.6	47.2		
Jan-17	7:59:20	47.5	45.4		
Jan-17	7:59:30	49.2	46.5		
Jan-17	7:59:40	44.3	46.6		
Jan-17	7:59:50	43.0	42.5		

Location #1 L_{AEQ}	Location #2 L_{AEQ}
46.1	**47.5**

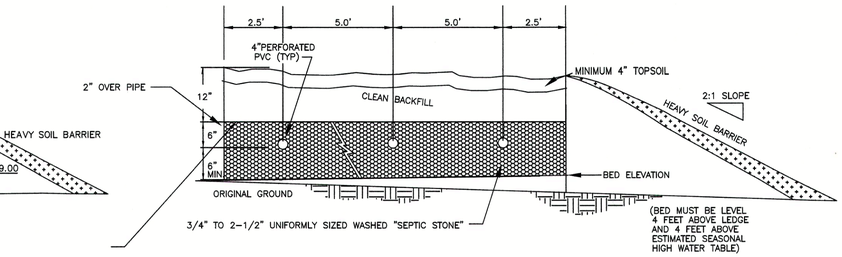


NOTES:

1. ALL THE CONNECTONS BETWEEN A SEPTIC TANK AND THE PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK SHALL BE SEALED WITH A WATERTIGHT FLEXIBLE JOINT CONNECTOR.
2. ALL INVERT ELEVATIONS AND GRADES ARE REFERENCED FROM T.B.M.
3. SEPTIC TANK AND DISTRIBUTION BOX ARE TO BE SUPPLIED BY
   TO BE CHOSEN BY INSTALLER
4. DESIGNER SHALL BE NOTIFIED OF ANY CONDITIONS CONTRARY TO THOSE DEPICTED ON THIS PLAN.
5. THIS SYSTEM IS NOT DESIGNED FOR THE USE OF GARBAGE DISPOSAL UNITS OR WATER SOFTENERS. IF EITHER ARE TO BE INSTALLED, CALL DESIGNER IMMEDIATELY.

TYPICAL PROFILE OF PROPOSED SANITARY SYSTEM

NOT TO SCALE



TYPICAL CROSS SECTION

NOT TO SCALE

SOIL TYPE: 12B

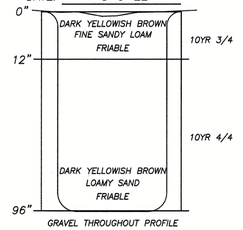
HINCKLEY LOAMY SAND
3 TO 8% SLOPES

BASED ON THE WEB SOIL SURVEY

TEST PIT DATA:

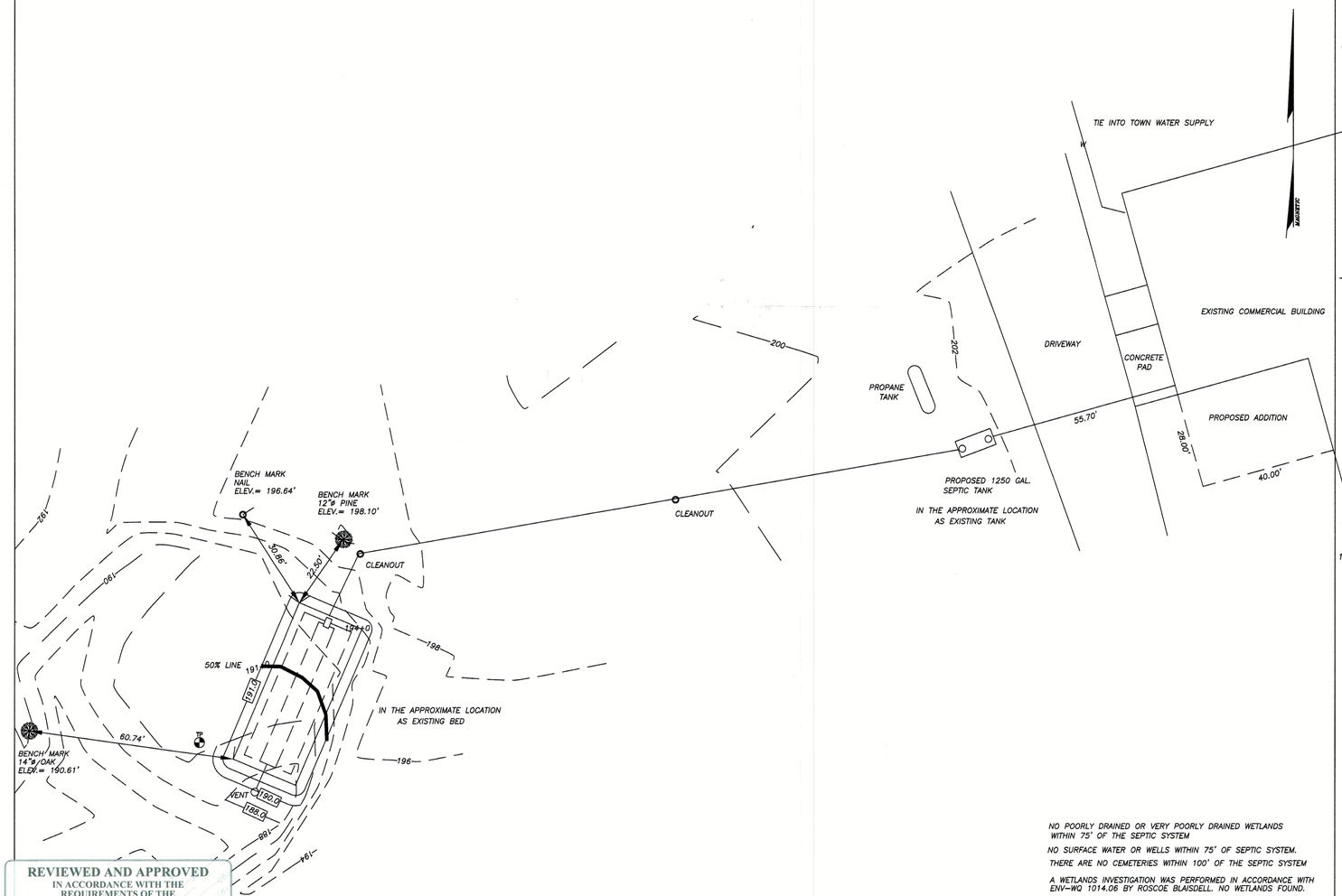
1 TP

DATE: 3-9-22



ROOTS TO 40"
LEDGE NONE TO 96"
WATER NONE TO 96"
S.H.W.T. NONE TO 96"
HARDPAN NONE TO 96"

PT PERC TEST 2 MIN./IN. AT 28 "



LEACH BED REQUIREMENTS

PERC. RATE: 1" PER 2 MINUTES
NUMBER OF EMPLOYEES: 30
COMMERCIAL WITH CAFETERIA = 600 GPD
REQUIRED- 750 SF
PROVIDED- 1000 SF

LEACH BED SIZE: 20' X 50'

DESIGN INTENT: BOTTOM OF LEACH BED

THE BOTTOM OF THE EFFLUENT DISPOSAL AREA SHALL BE CONSTRUCTED AT 189.0 ELEVATION.
THERE IS APPROXIMATELY 5.0 FEET BELOW ORIGINAL GROUND ON THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL AREA. THE BED BOTTOM IS 4' ABOVE SEASONAL HIGH WATER TABLE AND LEDGE DEPTH OVER 50% OF THE FIELD (50% RULE USED)

BED BOTTOM PREPARATION & FILL SPECIFICS

1. CHECK DESIGN INTENT AND VERIFY THE ELEVATION OF EXISTING GROUND --UPSLOPE SIDE-- BEFORE DISTURBING SITE. "DESIGN INTENT" MUST BE MAINTAINED.
2. REMOVE ALL TREES, BRUSH, BOULDERS, AND DEBRIS FROM THE AREA TO BE FILLED.
3. REMOVE TOPSOIL IN FILL AREA. LEAVE SUBSOIL IN PLACE. DO NOT COMPACT SUBSOIL WITH MACHINERY. SCARIFY, AS NEEDED BEFORE FILLING. THIS IS BEST DONE WITH THE TEETH OF AN EXCAVATOR. SCARIFY PARALLEL WITH CONTOURS, WORKING FROM THE CENTER OUTWARD.
4. FILL TO RAISE THE SYSTEM AND FOR SIDE SLOPES TO MEET THE FOLLOWING SPECIFICATION: MEDIUM TO COARSE TEXTURED SAND NO GREATER THAN 5% PASSING THE NUMBER 200 SIEVE, AND NO PARTICLES LARGER THAN 3/4 INCHES.
5. SAND FILL TO BE PUSHED ONTO PREPARED SURFACE FROM THE SIDE. DO NOT ALLOW MACHINERY ON THE NATURAL SOIL SURFACE. PLACE FILL IN 12" LOOSE LAYERS USING TRACK TYPE TRACTOR WITH BLADE. ALWAYS KEEP A MINIMUM OF 9" OF FILL MATERIAL BENEATH TRACKS OF TRACTOR TO MINIMIZE COMPACTION OF NATURAL SOIL. EACH LAYER SHALL BE SPREAD IN UNIFORM THICKNESS PRIOR TO PLACING NEXT LAYER. CONTINUOUS GRADING AND SHAPING SHALL BE CARRIED OUT TO ASSURE UNIFORM DENSITY THROUGHOUT EACH LAYER.
6. BACKFILL MATERIAL TO BE CLEAN, PERMEABLE SOIL, FREE OF ORGANICS, ROOTS, STUMPS, AND STONES GREATER THAN 6". SAND IS RECOMMENDED.
7. PLACE 6" TOPSOIL BLANKET AROUND SIDE SLOPES.
8. ENTIRE FILLED AREA SHOULD BE LOAMED AND SEEDED AS SOON AS POSSIBLE AFTER BACKFILLING TO PREVENT EROSION.
9. FINISH GRADE OVER SYSTEM SHOULD BE SLIGHTLY CROWNED TO PROMOTE RUNOFF.
10. BACKFILL DEPTH OVER SYSTEM TO BE 12"-18".

ALL STONE SHALL BE WASHED AND FREE OF IRON, CLAY, SILTS, AND OTHER FINE MATERIALS.

4" SOLID PIPE LAID LEVEL WITH TIGHT JOINTS TO BE USED LEADING FROM DISTRIBUTION BOX TO LATERAL LEACHING LINES.

ALL PIPING OUTSIDE OF THE LEACHING AREA SHALL BE WATER TIGHT.

THE INSTALLED SYSTEM SHALL BE LEFT EXPOSED UNTIL INSPECTED BY A REPRESENTATIVE OF THE N.H.D.E.S.

NO SURFACE WATER OR WELLS WITHIN 75' OF SEPTIC SYSTEM.

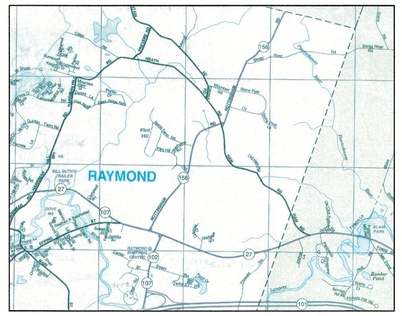
THIS SYSTEM MUST BE INSTALLED IN STRICT ACCORD WITH THE APPROVED PLAN; ANY CHANGES MUST BE APPROVED BEFORE ANY CONSTRUCTION IS STARTED; ANY DISCREPANCIES IN THE APPROVED PLANS AND THE ACTUAL SITE CONDITIONS MUST BE REPORTED BY THE INSTALLER TO THE DESIGNER PRIOR TO CONSTRUCTION.

IT IS RECOMMENDED THAT THE SEPTIC TANK BE PUMPED EVERY TWO YEARS; DO NOT PUMP GREASE, OIL, OR STRONG CHEMICALS INTO SEPTIC SYSTEM; DO NOT PARK OR DRIVE VEHICLES OVER LEACH FIELD.

BLAISDELL SURVEY, LLC. ASSUMES NO LIABILITY IN THE PREPARATION OF THIS PLAN WITH RESPECT TO INSTALLATION AND OPERATION UNLESS CONTRACTED TO INSPECT AND APPROVE ALL MATERIALS AND PROCEDURES USED TO INSTALL SYSTEM AS DESIGNED AND TO CERTIFY SAID INSTALLATION.

NOTE:

IN THE EVENT OF FUTURE SYSTEM FAILURE REPLACEMENT OF THE SYSTEM SHALL BE CONSTRUCTED IN THE SAME AREA AS THE ORIGINAL SYSTEM, AS DESIGNED, AFTER CONTAMINATED MATERIALS HAVE BEEN REMOVED



VICINITY PLAN

NO POORLY DRAINED OR VERY POORLY DRAINED WETLANDS WITHIN 75' OF THE SEPTIC SYSTEM

NO SURFACE WATER OR WELLS WITHIN 75' OF SEPTIC SYSTEM.

THERE ARE NO CEMETERIES WITHIN 100' OF THE SEPTIC SYSTEM

A WETLANDS INVESTIGATION WAS PERFORMED IN ACCORDANCE WITH ENV-WQ 1014.06 BY ROSCOE BLAISDELL. NO WETLANDS FOUND.

THIS PLAN IS NOT A SURVEY. THE BUILDER/OWNER/SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE ZONING DIMENSIONAL REQUIREMENTS AND SETBACK REQUIREMENTS PRIOR TO INITIATING CONSTRUCTION OF THE PROPOSED HOUSE AND SEPTIC SYSTEM. THE ZONING ORDINANCE OF THE MUNICIPALITY IS TO BE COMPLIED WITH. THE BUILDER/OWNER/SITE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT THE MUNICIPALITY REGARDING INSPECTIONS PRIOR TO OR DURING CONSTRUCTION. THIS PLAN IS NOT INTENDED TO BE USED AS A SITE PLAN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SURE ALL FINAL GRADING WORKS PROPERLY TO AVOID EROSION. BMP TO BE USED.

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE
NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 3/21/2022
#eCA2022032120

SUBSURFACE SEPTIC DESIGN FOR LOT NO. 2 TAX MAP NO. 28-4

WELCH ESTATES SUBDIVISION

SITUATED IN THE TOWN OF

RAYMOND

STATE OF N.H.-D.E.S. - S.S.B. SUBDIVISION APPROVAL NO. N/A 26.79 ACRE LOT
CONSTRUCTION APPROVAL NO. 127280-A
OPERATION APPROVAL DATE: 4/16/86

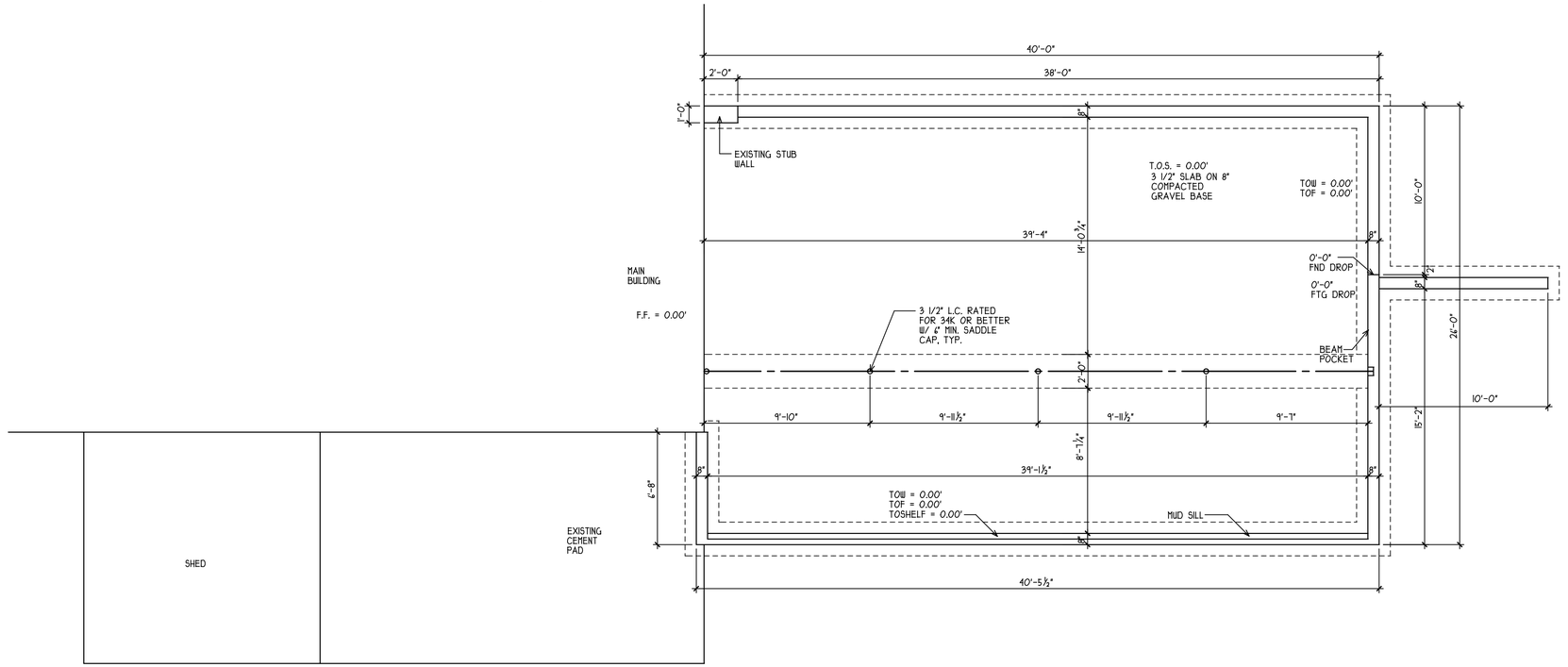
OWNER: GROUP PINARD, LLC
32 WEST RIVER ROAD
MOOKSETT, NH 03106
(603)-860-2996

PROPERTY LOCATION: 3 OTTER COURT

APPLICANT: BLAISDELL SURVEY, LLC
22 SCRIBNER ROAD, RAYMOND, NH. 03077
PHONE: (603)895-9947
DESIGNER PERMIT NO. 1439
RBLAISDELL1@COMCAST.NET

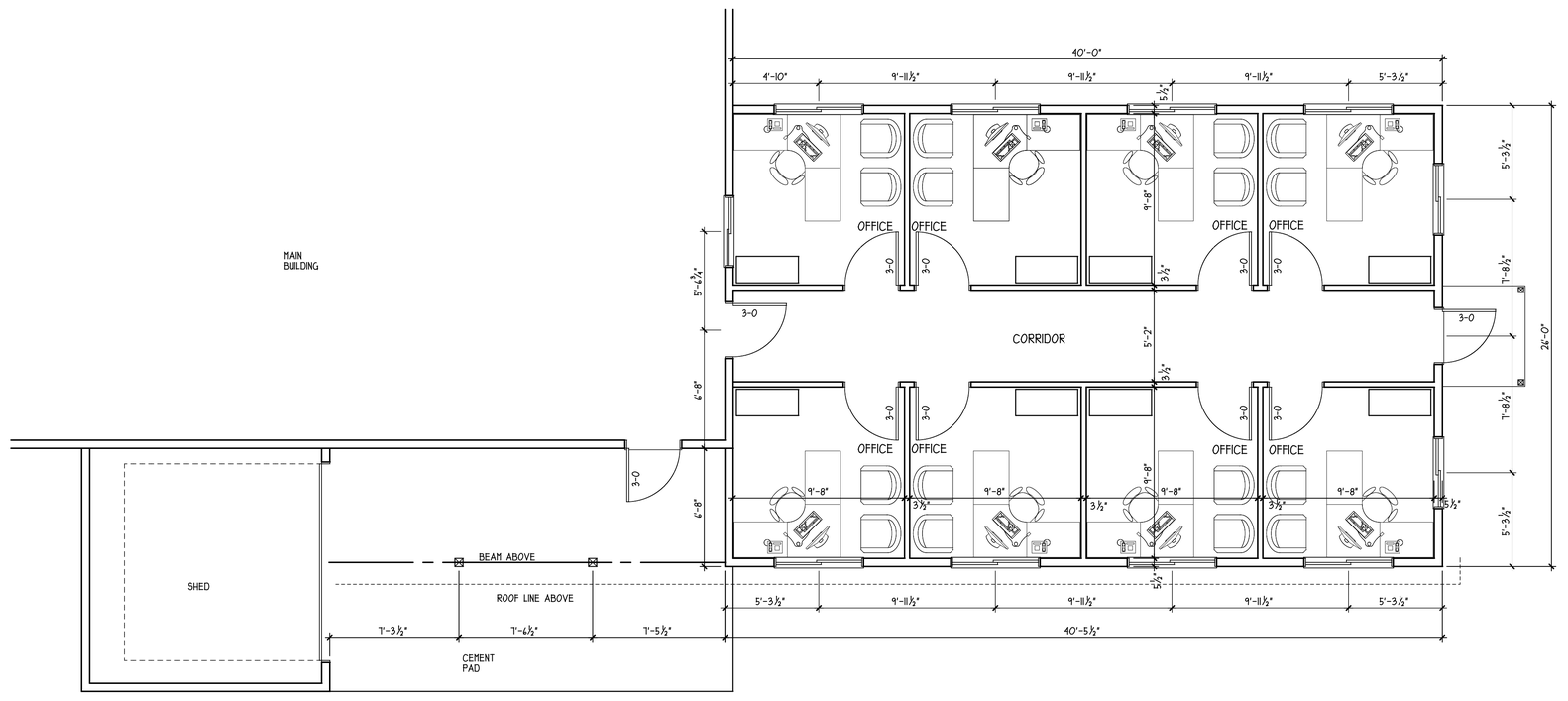
DATE: 3/15/22 FB #39
SCALE: 1"=20' JOB #2817

NEW HAMPSHIRE
Designer of Subsurface Disposal Systems
★★★
Roscoe T. Blaisdell
No. 1439
Department of Environmental Services



2 FOUNDATION PLAN

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



1 FIRST FLOOR PLAN

Scale = 1/4" = 1'-0"
Square Footage New - 1040.0 SF

dann norris batting • architect
planning, design, architecture
39 prescott road
brentwood, new hampshire 03833-6502
603 • 580 • 4154

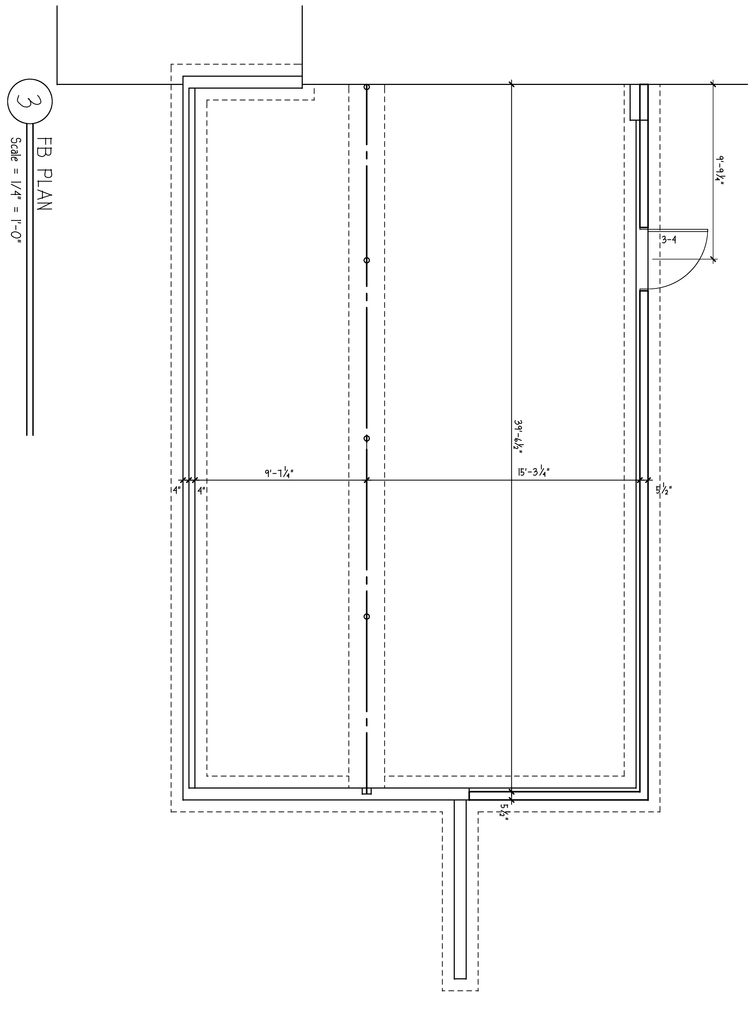
Pinard Waste Office Wing
3 Otter Ct.
Raymond, New Hampshire 03077

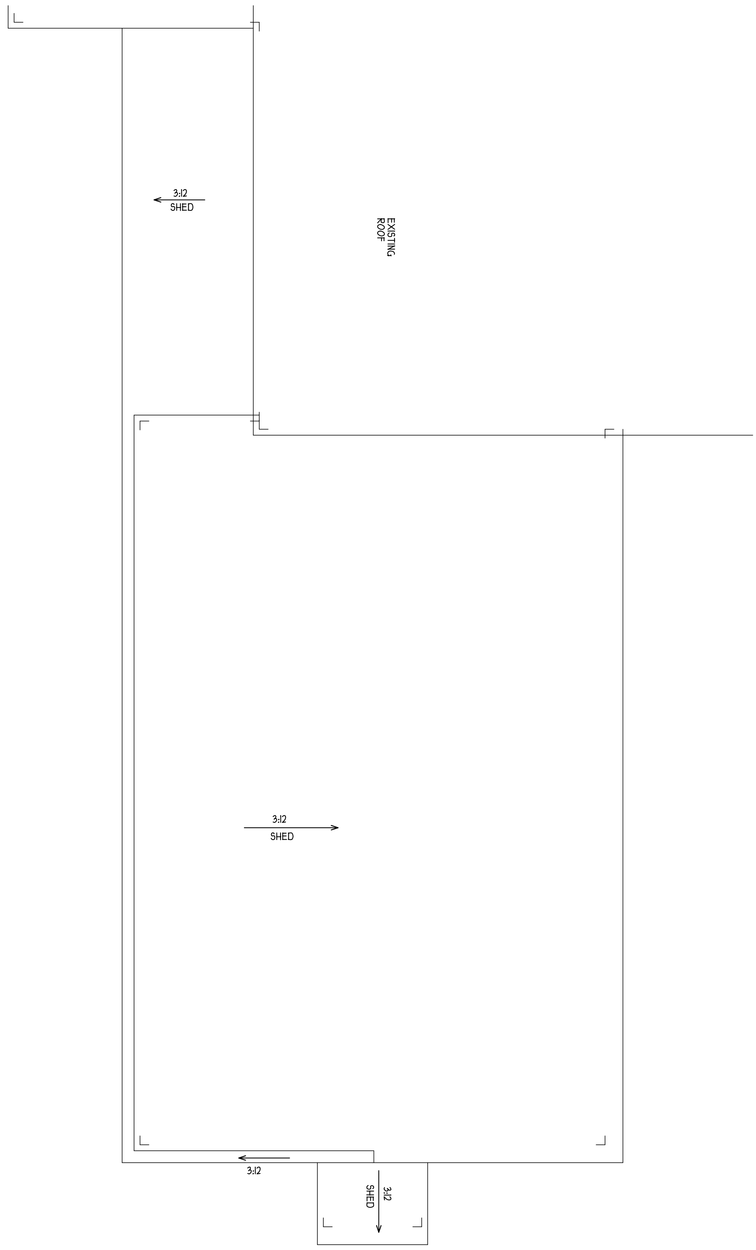
SCHEMATIC SET
NOT FOR CONSTRUCTION
DATE: 4/4/22

FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"
Total House Square Footage:
New - 1040.0 SF

date 4/1/22
check dnb
rev. -
Job No. 2206
1

dnb





G:\My Drive\Jobs\2204 Gregoire - Pinard\2206-Plan

PRINTED: 4/5/2022

dnb

9

Job No. 2206

rev.

check dnb

date 4/4/22

SECOND FLOOR PLAN

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

SCHEMATIC SET
NOT FOR CONSTRUCTION
DATE : 4/4/22

Pinard Waste Office Wing

3 Otter Ct.
Raymond, New Hampshire 03077

dann norris batting • architect
planning, design, architecture
39 prescott road
brentwood, new hampshire 03833-6502
603 • 580 • 4154

WINDOW SCHEDULE

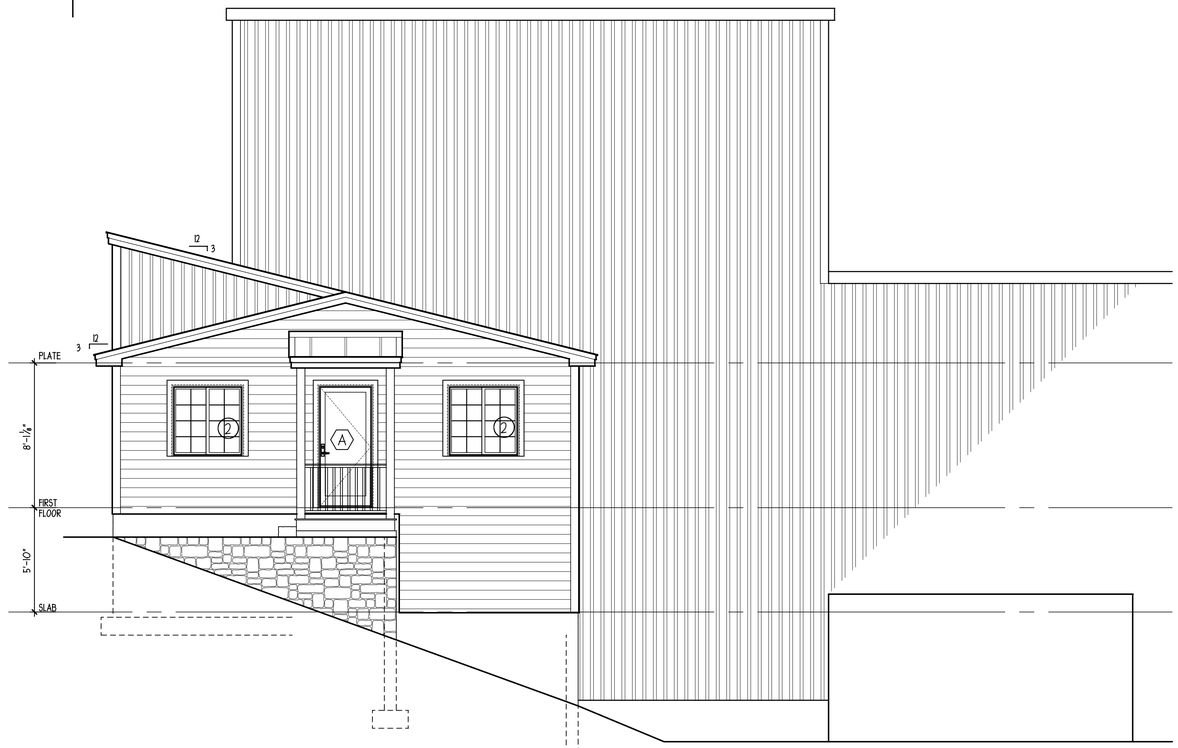
MARK	WIDTH	HEIGHT	NOTES
1 ELGL 5040	5'-0 1/2"	4'-0 1/4"	
2 ELGL 4040	4'-0 1/2"	4'-0 1/4"	

WINDOW SCHEDULE BASED ON MARVIN ELEVATE GLIDER WINDOWS.

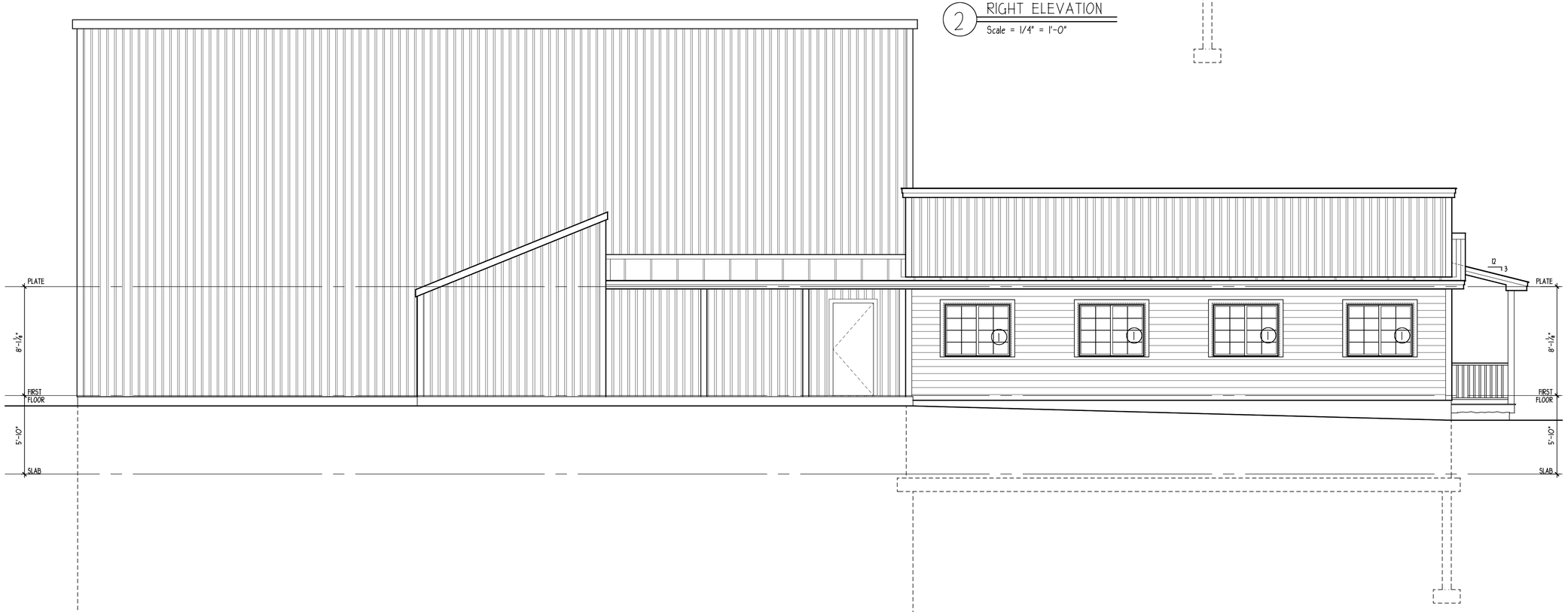
DOOR SCHEDULE

MARK	WIDTH	HEIGHT	NOTES
A ELIFD 3068 XR	3'-1 5/16"	6'-10 1/2"	SBO
B 20 MIN FIRE DOOR	3'-2 1/2"	6'-10 1/2"	SBO

DOOR SCHEDULE BASED ON MARVIN ELEVATE FRENCHWOOD HINGED INSWING AND DOORS SELECTED BY OWNER (SBO).



2 RIGHT ELEVATION
Scale = 1/4" = 1'-0"



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

dann norris batting • architect
planning, design, architecture
39 prescott road
brentwood, new hampshire 03833-6502
603 • 580 • 4154

Pinard Waste Office Wing
3 Otter Ct.
Raymond, New Hampshire 03077

SCHEMATIC SET
NOT FOR CONSTRUCTION
DATE: 4/4/22

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

date 4/1/22
check dnb
rev. -
Job No. 2206
3

dnb

WINDOW SCHEDULE

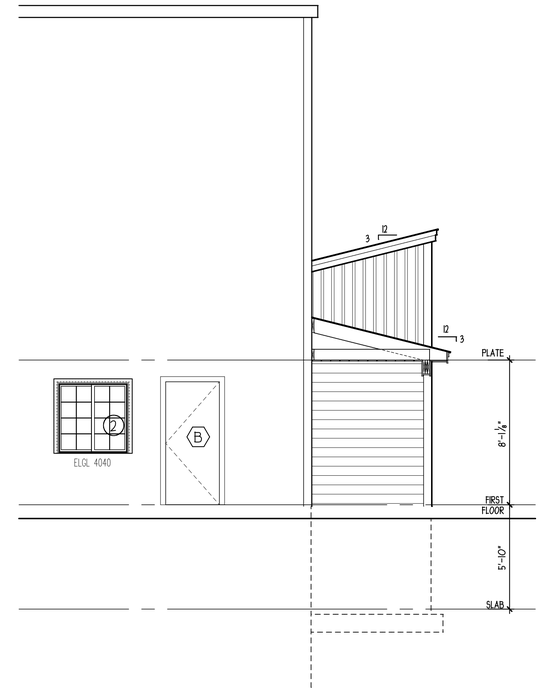
○	MARK	WIDTH	HEIGHT	NOTES
1	ELGL 5040	5'-0 1/2"	4'-0 1/4"	
2	ELGL 4040	4'-0 1/2"	4'-0 1/4"	

WINDOW SCHEDULE BASED ON MARVIN ELEVATE GLIDER WINDOWS.

DOOR SCHEDULE

⬡	MARK	WIDTH	HEIGHT	NOTES
A	ELIFD 3068 XR	3'-1 5/16"	6'-10 1/2"	SBO
B	20 MIN FIRE DOOR	3'-2 1/2"	6'-10 1/2"	SBO

DOOR SCHEDULE BASED ON MARVIN ELEVATE FRENCHWOOD HINGED INSWING AND DOORS SELECTED BY OWNER (SBO).



4 LEFT ELEVATION

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

3 REAR ELEVATION

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

dann norris batting • architect
planning, design, architecture
39 prescott road
brentwood, new hampshire 03833-6502
603 • 580 • 4154

Pinard Waste Office Wing
3 Otter Ct.
Raymond, New Hampshire 03077

SCHEMATIC SET
NOT FOR CONSTRUCTION
DATE: 4/4/22

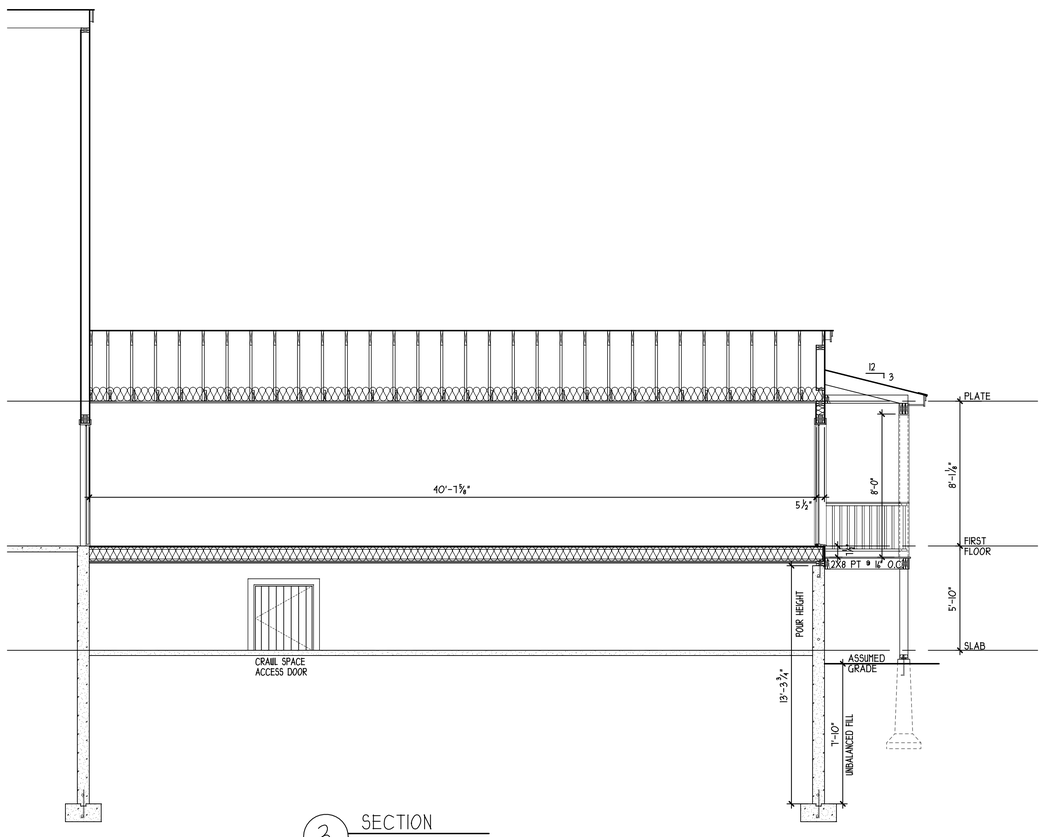
ELEVATIONS
Scale: 1/4" = 1'-0"

date 4/1/22
check dnb
rev. -

Job No. 2206

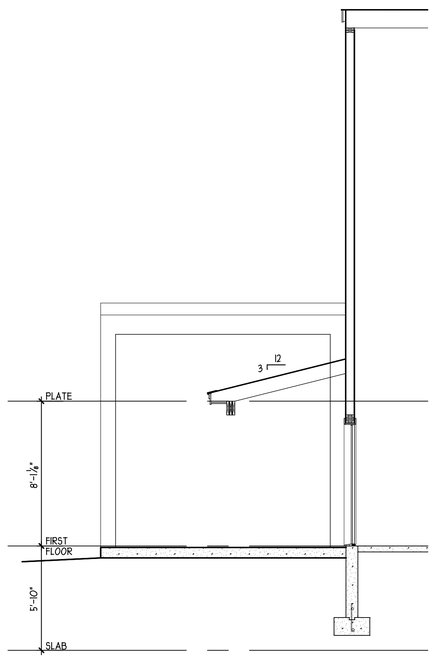
4

dnb



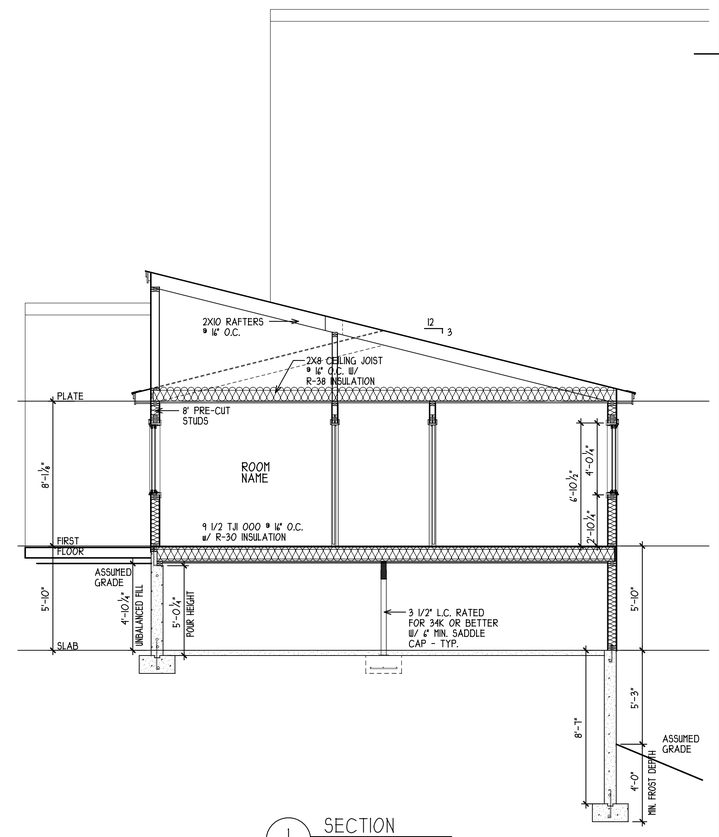
3 SECTION

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



2 SECTION

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



1 SECTION

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

dann norris batting • architect
planning, design, architecture
39 prescott road
brentwood, new hampshire 03833-6502
603 • 580 • 4154

Pinard Waste Office Wing

3 Otter Ct.
Raymond, New Hampshire 03077

SCHEMATIC SET
NOT FOR CONSTRUCTION
DATE: 4/1/22

SECTIONS

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

date 4/1/22

check dnb

rev.
-

Job No. 2206

S3

dnb

3 OTTER COURT

RAYMOND, NEW HAMPSHIRE

PINARD WASTE SYSTEMS, INC.

PERMIT DRAWINGS

SIGNATURE OF PLANNING BOARD:

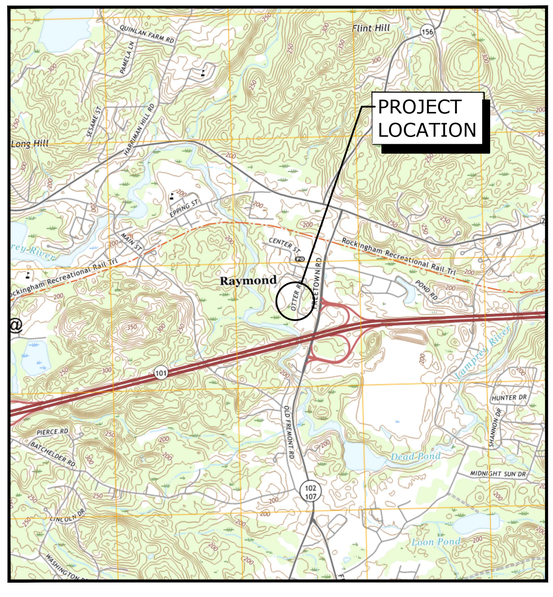
DATE: _____

JANUARY 5, 2022

LAST REVISED APRIL 18, 2022

LIST OF DRAWINGS	
SHEET NO.	SHEET TITLE
	COVER
C-100	EXISTING CONDITIONS PLAN
C-101	DEMOLITION PLAN
C-102	SITE AND UTILITY PLAN
C-103	GRADING, DRAINAGE, AND EROSION CONTROL PLAN
C-104	LANDSCAPE PLAN
C-105	TRUCK TURNING PLAN
C-106	PHOTOMETRIC PLAN
C-501	EROSION CONTROL NOTES AND DETAILS
C-502	DETAILS
C-503	DETAILS
C-504	DETAILS

LIST OF PERMITS	
PERMIT	STATUS
SITE PLAN REVIEW	SUBMITTED
SPECIAL USE PERMIT	APPROVED ON 3/23/2022
NHDES - ALTERATION OF TERRAIN PERMIT	PENDING SUBMITTAL
USEPA - NOTICE OF INTENT	PENDING SUBMITTAL



LOCATION MAP
SCALE: 1" = 2000'

PREPARED BY:

Tighe&Bond
Engineers | Environmental Specialists
177 Corporate Drive
Portsmouth, NH 03801
(603) 433-8818

STATE OF NEW HAMPSHIRE – JOSEPH M. PERSICHINO No. 12833 LICENSED PROFESSIONAL ENGINEER – 4/18/22

STATE OF NEW HAMPSHIRE – JOHN P. LORDEN No. 12683 LICENSED PROFESSIONAL ENGINEER – 4.18.22

PREPARED FOR:

PINARD WASTE SYSTEMS
32 WEST RIVER ROAD
HOOKSETT, NEW HAMPSHIRE 03106

PREPARED WITH:

DOUCET SURVEY LLC
102 KENT PLACE
NEWMARKET, NEW HAMPSHIRE 03857

PROJECT NO: P-0692-004

PERMIT DRAWINGS
COMPLETE SET 12 SHEETS

LEGEND

	UTILITY POLE & GUY WIRE
	BOUND FOUND
	DRILL HOLE FOUND
	IRON PIPE/ROD FOUND
	FIRE HYDRANT
	JURISDICTIONAL WETLAND SYMBOL
	CRUSHED STONE
EP	EDGE OF PAVEMENT
D.H.	DRILL HOLE
CONC.	CONCRETE
	WIRE FENCE
	CHAINLINK FENCE
OHW	OVERHEAD WIRES
	APPROX. ABUTTERS LOT LINE
	EASEMENT LINE
	TREE LINE
	STONE WALL
	APPROX. PROPERTY LINES (PER REF. PLAN #1)
100	CONTOUR LINE
	EDGE OF JURISDICTIONAL WETLAND (SEE NOTE #6)
	100-YEAR FLOODPLAIN
	LOMA LINE (SEE NOTE #7)
	SNOW BANK
28-4/2	TAX MAP/LOT#

SUBJECT PARCEL:

TAX MAP 28-4, LOT 2
GROUP PINARD, LLC
32 WEST RIVER ROAD
HOOKSETT, NH 03106
R.C.R.D. BK. 5508, PG. 2577

ABUTTERS:

TAX MAP 28-4, LOT 3
PARKER & HARPER MFG
2 OTTER COURT
RAYMOND, NH 03077
R.C.R.D. BK. 2523, PG. 1660
LAND USE: INDUSTRIAL

TAX MAP 28-4, LOT 5
WAL-MART STORES INC.
805 MOBERLY LANE
BENTONVILLE, AR 72716-0555
R.C.R.D. BK. 3513, PG. 2320
LAND USE: INDUSTRIAL

TAX MAP 28-4, LOT 12
MARELD CO., INC.
400 AMHERST STREET
SUITE 405
NASHUA, NH 03063
R.C.R.D. BK. 2806, PG. 132
LAND USE: VACANT

TAX MAP 28-4, LOT 1
VIRGINIA A. & JAMES W. FERNALD
96 FREMONT ROAD
RAYMOND, NH 03077
R.C.R.D. BK. 5990, PG. 1949
LAND USE: RESIDENTIAL

TAX MAP 29, LOT 2
MARELD CO., INC.
400 AMHERST STREET
SUITE 405
NASHUA, NH 03063
R.C.R.D. BK. 2806, PG. 134
LAND USE: VACANT

TAX MAP 28-4, LOT 13
MARELD CO., INC.
400 AMHERST STREET
SUITE 405
NASHUA, NH 03063
R.C.R.D. BK. 4476, PG. 1783
LAND USE: RESIDENTIAL

TAX MAP 28-4, LOT 14
12 OTTER ROAD TRUST
JOHN A. & JUDITH S. MORSE TRUSTEES
61 MOUNTAIN ROAD
RAYMOND, NH 03077
R.C.R.D. BK. 5663, PG. 0653
LAND USE: RESIDENTIAL

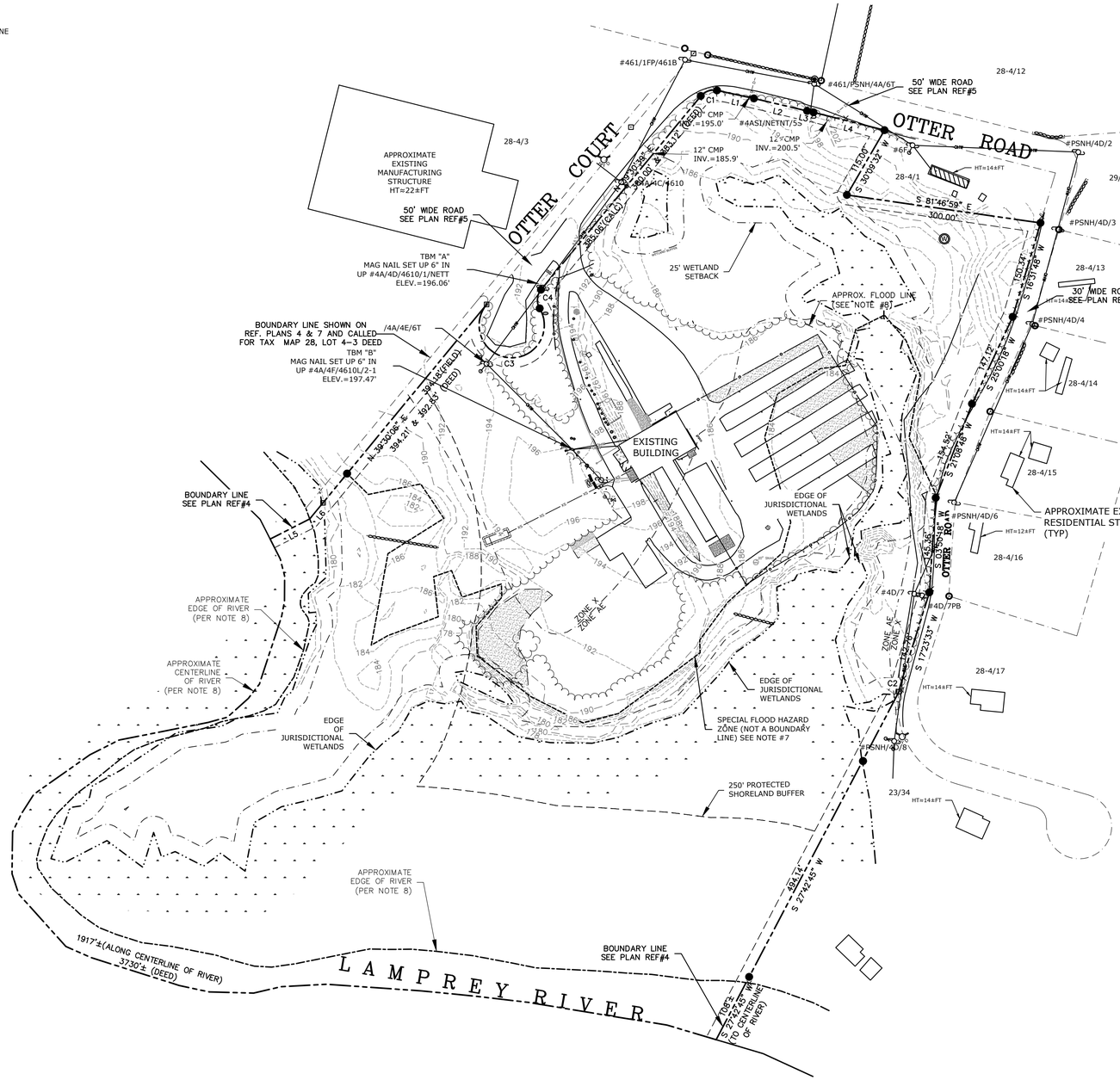
TAX MAP 28-4, LOT 15
STEVEN R. & SHELLY CIMMINO
14 OTTER ROAD
RAYMOND, NH 03077
R.C.R.D. BK. 5831, PG. 2305
LAND USE: RESIDENTIAL

TAX MAP 28-4, LOT 16
JODI GRANT & AMY GRANT
236 ROUTE 27
RAYMOND, NH 03077
R.C.R.D. BK. 6126, PG. 2030
LAND USE: RESIDENTIAL

TAX MAP 28-4, LOT 17
DOROTHY-ANNE AND JOHN F. SIMONEAU
18 OTTER ROAD
RAYMOND, NH 03077
R.C.R.D. BK. 5732, PG. 0144
LAND USE: RESIDENTIAL

TAX MAP 23, LOT 34
THOMAS L. & SHERRIE K. WELCH
17 OTTER ROAD
RAYMOND, NH 03077
R.C.R.D. BK. 3619, PG. 1854
LAND USE: RESIDENTIAL

TAX MAP 28-4, LOT 7
EDWARD W. MOULTON
106 MAIN STREET
RAYMOND, NH 03077
R.C.R.D. BK. 2269, PG. 1383
LAND USE: RESIDENTIAL



NOTES:

1. REFERENCE: TAX MAP 28-4, LOT 2
2. CURRENT OWNER OF RECORD: TAX MAP 28-4, LOT 2
   GROUP PINARD, LLC
   32 WEST RIVER ROAD
   HOOKSETT, NH 03106
3. FIELD SURVEY PERFORMED BY E.J.S. & J.P.E. OF DOUCET SURVEY, INC. DURING 07/13 & 10/13 & 01/14 USING A TRIMBLE S6 TOTAL STATION WITH A TRIMBLE TSC3 DATA COLLECTOR, A TRIMBLE R8 SURVEY GRADE GPS UNIT WITH A TRIMBLE DATA COLLECTOR AND A SOKKIA B21 AUTO LEVEL TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
4. HORIZONTAL DATUM BASED ON REFERENCE PLAN #1.
5. JURISDICTIONAL WETLANDS DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING DECEMBER 2013 IN ACCORDANCE WITH 1987 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT Y-87-1.
6. WATER BOUNDARIES ARE DYNAMIC IN NATURE AND ARE SUBJECT TO CHANGE DUE TO NATURAL CAUSES SUCH AS EROSION OR ACCRETION.
7. FLOOD HAZARD ZONES "AE" & "X" PER FIRM MAPS #33015C0191E & #33015C0193E DATED 5/17/05. FLOOD LINE BASED ON FEDERAL EMERGENCY MANAGEMENT AGENCY LETTER OF MAP AMENDMENT CASE NO. 14-01-0545A.
8. LAMPREY RIVER ORDINARY HIGH WATER MARK (OHWM) WAS DELINEATED USING AERIAL PHOTOGRAPHY DUE TO LIMITED ACCESS TO THE RIVER, AND IS ACCURATE TO WITHIN APPROXIMATELY 10 FEET. THIS LINE SHOULD BE DELINEATED BY A GROUND SURVEY IF GREATER ACCURACY IS REQUIRED.

REFERENCE PLAN:

1. "SUBDIVISION PLAN #73-2 RAYMOND DEVELOPMENT CORPORATION, RAYMOND, NH", BY: ALLAN H. SWANSON, INC., DATED: JANUARY 3, 1973, R.C.R.D. PLAN #D-3480.
2. "SURVEY OF THE LAND OF LEONARD & DIANE DREW RAYMOND, NH", BY: HOLDEN ENGINEERING & SURVEY, INC., DATED: 10/3/85, R.C.R.D. PLAN #D-14337.
3. "EXISTING CONDITIONS PLAN OF 14 CENTER STREET, TAX MAP 28-4, LOT 5, RAYMOND, NH FOR APPLEDORE ENGINEERING, INC., BY: DOUCET SURVEY, INC., DATED: JULY 23, 2008.
4. "SURVEY OF THE ESTATE THOMAS P. WELCH SITUATED IN RAYMOND, N.H.", BY R.S.L. LAYOUT & DESIGN, DATED: MARCH 15, 1974, R.C.R.D. PLAN #D-4500.
5. "REVISED SURVEY OF THE ESTATE THOMAS P. WELCH SITUATED IN RAYMOND, N.H.", BY R.S.L. LAYOUT & DESIGN, DATED: JULY 10, 1974, R.C.R.D. PLAN #D-4619.
6. "SURVEY OF THE RIGHT OF WAY OVER LAND OF COURIER CITIZEN'S, INC SITUATED IN RAYMOND, N.H.", BY R.S.L. LAYOUT & DESIGN, DATED: JUNE 6, 1974, R.C.R.D. PLAN #D-4633.
7. "A SURVEY OF A SUBDIVISION TO BE SHOWN AS WELCH ESTATES OWNED BY THOMAS P. WELCH HEIRS BEING PART OF LOT III - TAX MAP 9 SITUATED IN RAYMOND, N.H.", BY R.S.L. LAYOUT & DESIGN, DATED: MAY 1, 1975, R.C.R.D. PLAN #D-5189.
8. "A SURVEY OF A PLAT OF PROPERTY DESCRIBED BY DEED OF DOMINIC J. & DOROTHY RENDA PREPARED FOR MARIELD CO, INC. SITUATED IN RAYMOND, N.H.", BY R.S.L. LAYOUT & DESIGN, DATED: AUGUST 8, 1989, R.C.R.D. PLAN #D-19675.

LINE	BEARING	DISTANCE
L1	S 77°44'27" E	57.90'
L2	S 76°43'52" E	83.78'
L3	S 77°52'17" E	10.01'
L4	S 75°56'06" E	112.28'
L5	N 63°06'07" E	68'±
(TO EDGE OF RIVER)		
L6	N 39°30'06" E	32'±
(TO CENTERLINE OF RIVER)		

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	27.62'	25.01'	63°16'30"	S 71°08'11" W	26.24'
C2	16.34'	125.00'	7°29'19"	S 13°38'54" W	16.33'
C3	218.63'	50.00'	250°31'44"	N 85°42'33" W	81.65'
C4	30.77'	25.00'	70°31'44"	S 04°17'27" E	28.87'

0 100' 200'
GRAPHIC SCALE

Tighe&Bond

STATE OF NEW HAMPSHIRE — No. 824 WILLIAM J. DOUCET — LICENSED LAND SURVEYOR — SIGNATURE
7-19-2013

DOUCET SURVEY LLC

FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

Pinard Waste Systems, Inc.

3 Otter Court
Raymond,
New Hampshire

Mark	Date	Description
1	4/18/22	Revised per Town review comments

PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DSGN.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

EXISTING CONDITIONS PLAN

SCALE: AS SHOWN

C-100

Last Saved: 4/18/2022
Printed: Oct 18, 2022 - 10:20am By: JWinston
Tighe & Bond: J:\P\P0692 Pinard - Raymond, NH 3 Otter Ct\004 - Storage Building\Drawings, Figures\AutoCAD\P0692-004_C-DSGN.dwg

HT≈22±FT

OTTER COURT

"STOP/NO UNAUTHORIZED PERSONEL" TO BE REMOVED

"ONE WAY" TO BE REMOVED

FENCE TO BE REMOVED

"10 MPH" TO BE REMOVED

#PSNH/4A/4E/6T

SAWCUT PAVEMENT

STEEL PIPE

EXISTING GATE TO REMAIN

"RESTRICTED AREA" TO BE REMOVED

18" PINE

TREE TO BE REMOVED

CONCRETE CURBING PILE TO BE REMOVED

PAVEMENT TO BE REMOVED (TYP)

LIMIT OF CLEARING

PAVEMENT TO BE REMOVED (TYP)

CONCRETE CURBING PILE TO BE REMOVED

CONCRETE PAD TO BE REMOVED

"RESTRICTED AREA" TO BE REMOVED

OVERHEAD WIRE TO BE RELOCATED

BOULDER TO BE REMOVED (TYP).

SWITCH

EXISTING BUILDING (TO REMAIN)

LOWER LEVEL FF=186.8' (ON CONC.)

UPPER LEVEL FF=199.9' (ON CONC.)

UTILITY POLE TO BE RELOCATED (COORDINATE WITH UTILITY COMPANY)

JERSEY BARRIER TYP

APPROXIMATE PROPANE TANK LOCATION

250' PROTECTED SHORELAND BUFFER

SAWCUT PAVEMENT

EXISTING SEPTIC FIELD TO BE ABANDONED IN PLACE ACCORDING TO NHDES RULES

STEEL PIPE W/VALVE

EXISTING 750 GAL SEPTIC TANK TO BE REMOVED AND REPLACED

LIMIT OF GRAVEL REMOVAL

4" PVC @ 0.01'/'

250'

LIMIT OF CLEARING

APPROXIMATE LIMITS OF EXISTING 10'X40' CONCRETE PAD

APPROXIMATE LIMITS OF EXISTING 14'X40' GRAVEL AREA

PAVEMENT TO BE REMOVED

SLIDING GATE

20" SNAG

TREE TO BE REMOVED

LIMIT OF CLEARING

END DOUBLE ROW OF SILT SOCK

ZONE X
ZONE AE

EDGE OF JURISDICTIONAL WETLANDS

WETLAND BUFFER

SPECIAL FLOOD HAZARD ZONE (NOT A BOUNDARY LINE) SEE NOTE #7

25' WETLAND SETBACK

WETLAND BUFFER

BEGIN DOUBLE ROW OF SILT SOCK

LIMIT OF CLEARING

APPROX. FLOOD LINE (SEE NOTE #8)

LIMIT OF CHAINLINK FENCE TO BE RELOCATED

7' CHAINLINK FENCE TO BE RELOCATED

PAVEMENT WITHIN WETLAND BUFFER TO REMAIN (TYP)

SAWCUT PAVEMENT

16' OVERHEAD DOOR

SPECIAL FLOOD HAZARD ZONE SEE EXISTING CONDITIONS NOTE #7

GRAVEL TO BE REMOVED (TYP)

PAVEMENT TO BE REMOVED (TYP)

LIMIT OF GRAVEL REMOVAL

EDGE OF JURISDICTIONAL WETLANDS

LIMIT OF CLEARING

TREE TO BE REMOVED

OTTER ROAD

#4D/7

#4D/7PB

ZONE AE
ZONE X

HT≈14±FT

N

0 40' 80'
GRAPHIC SCALE

DEMOLITION NOTES:

1. THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
2. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
3. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.
4. COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
5. ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/ DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. SAW CUT AND REMOVE PAVEMENT ONE (1) FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.
8. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS.
10. UTILITIES SHALL BE TERMINATED AT THE MAIN LINE PER UTILITY COMPANY STANDARDS. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS OF WORK.
11. CONTRACTOR SHALL VERIFY ORIGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITY IS ACTIVE, AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.
12. PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT REMOVAL PRIOR TO BID.
13. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, UTILITIES AND PAVEMENT WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO BE REMOVED INCLUDE BUT ARE NOT LIMITED TO: CONCRETE, PAVEMENT, UNDER GROUND PIPING, POLES, STAIRS, SIGNS, FENCES, RAMPS, WALLS, BOLLARDS, BUILDING SLABS, FOUNDATION, TREES AND LANDSCAPING. AT A MINIMUM, STUMPS, RUBBLE AND BRUSH SHALL BE TRANSPORTED TO A DESIGNATED AREA WITHIN THE DEVELOPMENT. WASTE AREAS SHALL BE LOCATED ABOVE SEASONAL HIGH GROUND WATER, CAPPED WITH FILL, LOAMED AND SEEDED. ALL LOCAL, STATE AND FEDERAL REGULATIONS PERTAINING TO DISPOSAL OF STUMPS AND SOLID WASTE SHALL BE ADHERED TO.
14. COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAYS WITH THE TOWN OF RAYMOND..
15. REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND REMOVE ALL STUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
16. CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY THE CONTRACTOR, THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED SURVEYOR TO REPLACE DISTURBED MONUMENTS.
17. THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES AND HOMES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS AND HOME SERVICES INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES. TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES AND SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH THE UTILITY COMPANY AND AFFECTED ABUTTER.
18. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
19. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.
20. SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.

REFERENCE PLAN:

1. "SEPTIC SYSTEM DESIGN", BY PETER HOLDEN OF HOLDEN ENGINEERING & SURVEYING, INC. DATED 12/12/85.

LEGEND

PROPERTY LINE	EXISTING SIGN
ABUTTER LOT LINE	EXISTING BOLLARD
BUILDING SETBACK	EXISTING TREE
EDGE OF WETLAND	EXISTING BOULDER
EXISTING TREE LINE	EXISTING LIGHT
EXISTING STONE WALL	UTILITY POLE & GUY WIRE
EXISTING FENCE	FIRE HYDRANT
EXISTING DRAINAGE	MONITORING WELL
EXISTING ELECTRIC/ TELEPHONE/CABLE	TRAFFIC FLOW DIRECTION
EXISTING OVERHEAD WIRE	CHAINLINK FENCE
EXISTING CONTOUR	CONCRETE
EXISTING 10' CONTOUR	RETAINING
SILT SOCK	TYPICAL
SAWCUT LIMIT	FINISH FLOOR IDENTIFIER
LIMIT OF WORK	EDGE OF PAVEMENT
EXISTING SEPTIC LINE	SINGLE WHITE LINE
EXISTING TREELINE	SINGLE YELLOW LINE
PROPOSED TREELINE	
PAVEMENT TO BE REMOVED	

Tighe&Bond

STATE OF NEW HAMPSHIRE - JOSEPH M. PERSECHINO No. 18203 LICENSED PROFESSIONAL ENGINEER 4/18/22

STATE OF NEW HAMPSHIRE - JOHN P. LORDEN No. 12683 LICENSED PROFESSIONAL ENGINEER 4.18.22

FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

Pinard Waste Systems, Inc.

3 Otter Court
Raymond,
New Hampshire

Mark	Date	Description
1	4/18/22	Revised per Town review comments

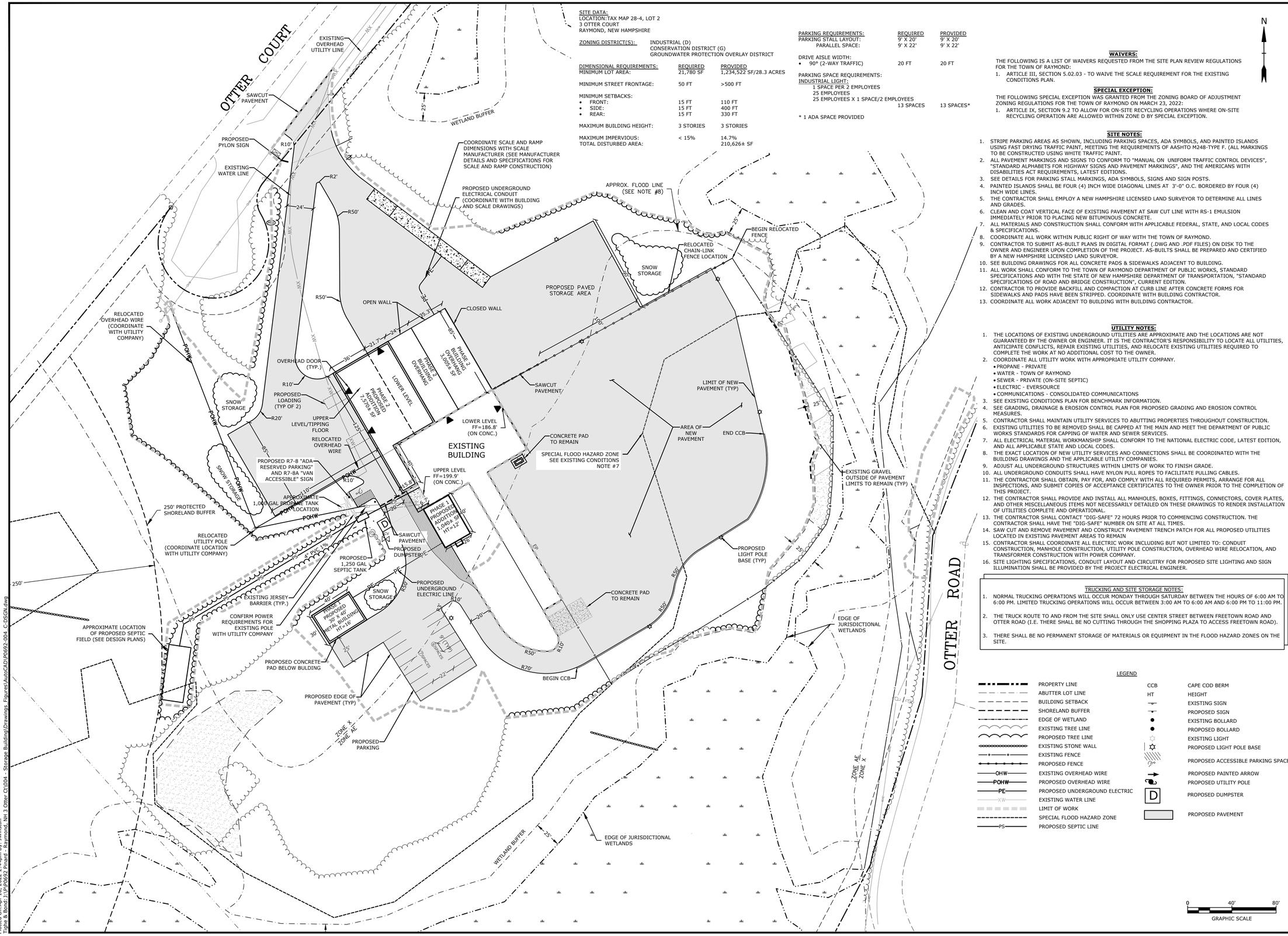
PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DSGN.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

DEMOLITION PLAN

SCALE: AS SHOWN

C-101

Last Saved: 4/18/2022
Printed: 4/18/2022 2:44pm By: JWinston
Tighe & Bond: J:\P\P0692 Pinard - Raymond, NH 3 Otter Ct\004 - Storage Building\Drawings, Figures\AutoCAD\P0692-004_C-DSGN.dwg



SITE DATA:
LOCATION:TAX MAP 28-4, LOT 2
3 OTTER COURT
RAYMOND, NEW HAMPSHIRE

ZONING DISTRICT(S): INDUSTRIAL (D)
CONSERVATION DISTRICT (G)
GROUNDWATER PROTECTION OVERLAY DISTRICT

DIMENSIONAL REQUIREMENTS:	REQUIRED	PROVIDED
MINIMUM LOT AREA:	21,780 SF	1,234,522 SF/28.3 ACRES
MINIMUM STREET FRONTAGE:	50 FT	>500 FT
MINIMUM SETBACKS:		
• FRONT:	15 FT	110 FT
• SIDE:	15 FT	400 FT
• REAR:	15 FT	330 FT
MAXIMUM BUILDING HEIGHT:	3 STORIES	3 STORIES
MAXIMUM IMPERVIOUS:	< 15%	14.7%
TOTAL DISTURBED AREA:		210,626± SF

PARKING REQUIREMENTS:	REQUIRED	PROVIDED
PARKING STALL LAYOUT:	9' X 20'	9' X 20'
PARALLEL SPACE:	9' X 22'	9' X 22'
DRIVE AISLE WIDTH:		
• 90° (2-WAY TRAFFIC)	20 FT	20 FT
PARKING SPACE REQUIREMENTS:		
INDUSTRIAL LIGHT:		
1 SPACE PER 2 EMPLOYEES		
25 EMPLOYEES		
25 EMPLOYEES X 1 SPACE/2 EMPLOYEES		
	13 SPACES	13 SPACES*

* 1 ADA SPACE PROVIDED

WAIVERS:

THE FOLLOWING IS A LIST OF WAIVERS REQUESTED FROM THE SITE PLAN REVIEW REGULATIONS FOR THE TOWN OF RAYMOND:

1. ARTICLE III, SECTION 5.02.03 - TO WAIVE THE SCALE REQUIREMENT FOR THE EXISTING CONDITIONS PLAN.

SPECIAL EXCEPTION:

THE FOLLOWING SPECIAL EXCEPTION WAS GRANTED FROM THE ZONING BOARD OF ADJUSTMENT ZONING REGULATIONS FOR THE TOWN OF RAYMOND ON MARCH 23, 2022:

1. ARTICLE IX, SECTION 9.2 TO ALLOW FOR ON-SITE RECYCLING OPERATIONS WHERE ON-SITE RECYCLING OPERATION ARE ALLOWED WITHIN ZONE D BY SPECIAL EXCEPTION.

SITE NOTES:

1. STRIPE PARKING AREAS AS SHOWN, INCLUDING PARKING SPACES, ADA SYMBOLS, AND PAINTED ISLANDS USING FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248-TYPE F. (ALL MARKINGS TO BE CONSTRUCTED USING WHITE TRAFFIC PAINT.
2. ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.
3. SEE DETAILS FOR PARKING STALL MARKINGS, ADA SYMBOLS, SIGNS AND SIGN POSTS.
4. PAINTED ISLANDS SHALL BE FOUR (4) INCH WIDE DIAGONAL LINES AT 3'-0" O.C. BORDERED BY FOUR (4) INCH WIDE LINES.
5. THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED LAND SURVEYOR TO DETERMINE ALL LINES AND GRADES.
6. CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAW CUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.
7. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES & SPECIFICATIONS.
8. COORDINATE ALL WORK WITHIN PUBLIC RIGHT OF WAY WITH THE TOWN OF RAYMOND.
9. CONTRACTOR TO SUBMIT AS-BUILT PLANS IN DIGITAL FORMAT (.DWG AND .PDF FILES) ON DISK TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR.
10. SEE BUILDING DRAWINGS FOR ALL CONCRETE PADS & SIDEWALKS ADJACENT TO BUILDING.
11. ALL WORK SHALL CONFORM TO THE TOWN OF RAYMOND DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
12. CONTRACTOR TO PROVIDE BACKFILL AND COMPACTION AT CURB LINE AFTER CONCRETE FORMS FOR SIDEWALKS AND PADS HAVE BEEN STRIPPED. COORDINATE WITH BUILDING CONTRACTOR.
13. COORDINATE ALL WORK ADJACENT TO BUILDING WITH BUILDING CONTRACTOR.

UTILITY NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES, AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
2. COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY.
   - PROPANE - PRIVATE
   - WATER - TOWN OF RAYMOND
   - SEWER - PRIVATE (ON-SITE SEPTIC)
   - ELECTRIC - EVERSOURCE
   - COMMUNICATIONS - CONSOLIDATED COMMUNICATIONS
3. SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.
4. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
5. CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ABUTTING PROPERTIES THROUGHOUT CONSTRUCTION.
6. EXISTING UTILITIES TO BE REMOVED SHALL BE CAPPED AT THE MAIN AND MEET THE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR CAPPING OF WATER AND SEWER SERVICES.
7. ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
8. THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING DRAWINGS AND THE APPLICABLE UTILITY COMPANIES.
9. ADJUST ALL UNDERGROUND STRUCTURES WITHIN LIMITS OF WORK TO FINISH GRADE.
10. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
11. THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO THE COMPLETION OF THIS PROJECT.
12. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
13. THE CONTRACTOR SHALL CONTACT "DIG-SAFE" 72 HOURS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL HAVE THE "DIG-SAFE" NUMBER ON SITE AT ALL TIMES.
14. SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN
15. CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY.
16. SITE LIGHTING SPECIFICATIONS, CONDUIT LAYOUT AND CIRCUITRY FOR PROPOSED SITE LIGHTING AND SIGN ILLUMINATION SHALL BE PROVIDED BY THE PROJECT ELECTRICAL ENGINEER.

TRUCKING AND SITE STORAGE NOTES:

1. NORMAL TRUCKING OPERATIONS WILL OCCUR MONDAY THROUGH SATURDAY BETWEEN THE HOURS OF 6:00 AM TO 6:00 PM. LIMITED TRUCKING OPERATIONS WILL OCCUR BETWEEN 3:00 AM TO 6:00 AM AND 6:00 PM TO 11:00 PM.
2. THE TRUCK ROUTE TO AND FROM THE SITE SHALL ONLY USE CENTER STREET BETWEEN FREETOWN ROAD AND OTTER ROAD (I.E. THERE SHALL BE NO CUTTING THROUGH THE SHOPPING PLAZA TO ACCESS FREETOWN ROAD).
3. THERE SHALL BE NO PERMANENT STORAGE OF MATERIALS OR EQUIPMENT IN THE FLOOD HAZARD ZONES ON THE SITE.

LEGEND

PROPERTY LINE		CCB	CAPE COD BERM
ABUTTER LOT LINE		HT	HEIGHT
BUILDING SETBACK			EXISTING SIGN
SHORELAND BUFFER			PROPOSED SIGN
EDGE OF WETLAND			EXISTING BOLLARD
EXISTING TREE LINE			PROPOSED BOLLARD
PROPOSED TREE LINE			EXISTING LIGHT
EXISTING STONE WALL			PROPOSED LIGHT POLE BASE
EXISTING FENCE			PROPOSED ACCESSIBLE PARKING SPACE
PROPOSED FENCE			
OHW	EXISTING OVERHEAD WIRE		PROPOSED PAINTED ARROW
POHW	PROPOSED OVERHEAD WIRE		PROPOSED UTILITY POLE
PE	PROPOSED UNDERGROUND ELECTRIC	D	PROPOSED DUMPSTER
XW	EXISTING WATER LINE		
	LIMIT OF WORK		PROPOSED PAVEMENT
	SPECIAL FLOOD HAZARD ZONE		
PS	PROPOSED SEPTIC LINE		

0 40' 80'
GRAPHIC SCALE

Tighe&Bond

FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

Pinard Waste Systems, Inc.

3 Otter Court
Raymond,
New Hampshire

Mark	Date	Description
1	4/18/22	Revised per Town review comments

PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DSGN.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

SITE AND UTILITY PLAN

SCALE: AS SHOWN

C-102

Last Saved: 4/18/2022
Plotted: Apr 18, 2022 - 2:44pm By: JWinston
Tighe & Bond: J:\P\P0692 Pinard - Raymond, NH 3 Otter Ct\004 - Storage Building\Drawings_Figures\AutoCAD\P0692-004_C-DSGN.dwg

HT≈22±FT

OTTER COURT

CONST. STABILIZED CONSTRUCTION EXIT

25' WETLAND SETBACK

COORDINATE GRADING AT SCALE AND RAMPS WITH SCALE MANUFACTURER

CONST. GRASS-LINED SWALE
INV IN= 185.0
INV OUT= 182.0
L = 343', W = 6'

APPROX. FLOOD LINE (SEE NOTE #8)

CONST. DOUBLE ROW SILT SOCK (TYP)

PROVIDE EROSION CONTROL BLANKET FOR AREA OF > 3:1 SLOPE

CONST. RIP RAP SPILLWAY ELEV=193.5

CONST. INFILTRATION BASIN 1
BOTTOM ELEV = 191.0
BERM ELEV = 194.5

PROPOSED INFILTRATION BASIN

CONST. RIP RAP SPILLWAY ELEV=194.00

CONST. SEDIMENT FOREBAY BOTTOM ELEV=192.50

250' PROTECTED SHORELAND BUFFER

CONST. SILT SOCK (TYP)

PHASE 2 BUILDING OVERHANG 1,000 SF FF = 186.8

PHASE 2 PROPOSED ADDITION 7,575 SF FF = 186.8

LOWER LEVEL FF=186.8' (ON CONC.)

UPPER LEVEL FF=199.9' (ON CONC.)

PHASE 1 PROPOSED ADDITION 1,040 SF HT = 12' FF = 199.9

PROVIDE EROSION CONTROL BLANKET FOR AREA OF > 3:1 SLOPE

SPECIAL FLOOD HAZARD ZONE SEE EXISTING CONDITIONS NOTE #7

PHASE 1 PROPOSED 30' X 40' METAL BUILDING FF=194.25

CONST. SEDIMENT FOREBAY BOTTOM ELEV=192.5

BERM ELEV=194.00

CONST. INFILTRATION BASIN 2 BOTTOM ELEV = 191.50

CONST. RIPRAP SPILLWAY ELEV=193.75

CONST. TREATMENT SWALE 1
INV IN= 185.0
INV OUT= 184.0
L = 125', W = 8'
S = 0.008 FT/FT

CONST. SEDIMENT FOREBAY BOTTOM ELEV=180.00

CONST. GRAVEL WETLAND CELL #1
BOTTOM ELEV=180.00
BERM ELEV=182.50
(SEE DETAIL) (TYP)

POCS1
RIM=183.50
INV OUT=179.65 S

CONST. GRAVEL WETLAND CELL #2
BOTTOM ELEV=180.00
BERM ELEV=182.50

33 LF 12" HDPE @ 0.45%

PFES1
INV IN=179.50 N

CONST. RIP RAP SPILLWAY ELEV=182.00

CONST. RIP RAP APRON 1
D50=8"

OTTER ROAD

ZONE X
ZONE AE

ZONE AE
ZONE X

HT≈14±FT

N

0 40' 80'
GRAPHIC SCALE

GRADING AND DRAINAGE NOTES:

1. COMPACTION REQUIREMENTS:
   - BELOW PAVED OR CONCRETE AREAS 95%
   - TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL 95%
   - BELOW LOAM AND SEED AREAS 90%

   * ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.
2. ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR EQUAL) OR RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.
3. CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, RAMPS ADJACENT TO THE BUILDING.
4. CONTRACTOR SHALL THOROUGHLY CLEAN ALL DRAIN LINES, WITHIN THE LIMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
5. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
6. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
7. ALL STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NHDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.
8. ALL WORK SHALL CONFORM TO THE TOWN OF RAYMOND DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
9. SEE EXISTING CONDITIONS PLAN FOR BENCH MARK INFORMATION.

EROSION CONTROL NOTES:

1. INSTALL EROSION CONTROL BARRIERS AS SHOWN AS FIRST ORDER OF WORK.
2. SEE GENERAL EROSION CONTROL NOTES ON "EROSION CONTROL NOTES & DETAILS SHEET".
3. INSTALL STABILIZED CONSTRUCTION EXIT.
4. INSPECT PERIMETER EROSION CONTROL MEASURES DAILY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.
5. CONSTRUCT EROSION CONTROL BLANKET ON ALL SLOPES STEEPER THAN 3:1.
6. PRIOR TO ANY WORK OR SOIL DISTURBANCE COMMENCING ON THE SUBJECT PROPERTY, INCLUDING MOVING OF EARTH, THE APPLICANT SHALL INSTALL ALL EROSION AND SILTATION MITIGATION AND CONTROL MEASURES AS REQUIRED BY STATE AND LOCAL PERMITS AND APPROVALS.
7. CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, SPRINKLING WATER ON UNSTABLE SOILS SUBJECT TO ARID CONDITIONS.
8. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
9. TEMPORARY SOIL STOCKPILE SHALL BE SURROUNDED WITH PERIMETER CONTROLS AND SHALL BE STABILIZED BY TEMPORARY EROSION CONTROL SEEDING. STOCKPILE AREAS TO BE LOCATED AS FAR AS POSSIBLE FROM THE DELINEATED EDGE OF WETLANDS.
10. SAFETY FENCING SHALL BE PROVIDED AROUND STOCKPILES OVER 10 FT.

LEGEND

2.0%	% SLOPE
X HP	HIGH POINT
APPROX.	APPROXIMATE
CONST.	CONSTRUCT
ELEV	ELEVATION
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
INV	INVERT
L	LENGTH
PFES	PROPOSED FLARED END SECTION
POCS	PROPOSED OVERFLOW CONTROL STRUCTURE
S	SLOPE
W	WIDTH
	PROPERTY LINE
	APPROXIMATE ABUTTER PROPERTY LINE
	BUILDING SETBACK
	EDGE OF WETLAND
	WETLAND BUFFER
	EXISTING TREE LINE
	PROPOSED TREE LINE
	EXISTING STONE WALL
	EXISTING FENCE
	PROPOSED FENCE
98	EXISTING CONTOUR
100	EXISTING 10' CONTOUR
72	FINISH GRADE
	PROPOSED DRAINAGE
	SILT SOCK
	LIMIT OF WORK
	EDGE OF GRAVEL
	FLOW PATH
	BARBED WIRE FENCE
	PROPOSED TRUCK SCALE
	EXISTING SIGN
	PROPOSED SIGN
	EXISTING GRAVEL
	PROPOSED RIP RAP
	OUTLET CONTROL STRUCTURE

Tighe&Bond

STATE OF NEW HAMPSHIRE - JOSEPH M. PERSECHINO No. 16803 LICENSED PROFESSIONAL ENGINEER 4/18/22

STATE OF NEW HAMPSHIRE - JOHN P. LORDEN No. 12683 LICENSED PROFESSIONAL ENGINEER 4.18.22

FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

Pinard Waste Systems, Inc.

3 Otter Court
Raymond,
New Hampshire

Mark	Date	Description
1	4/18/22	Revised per Town review comments

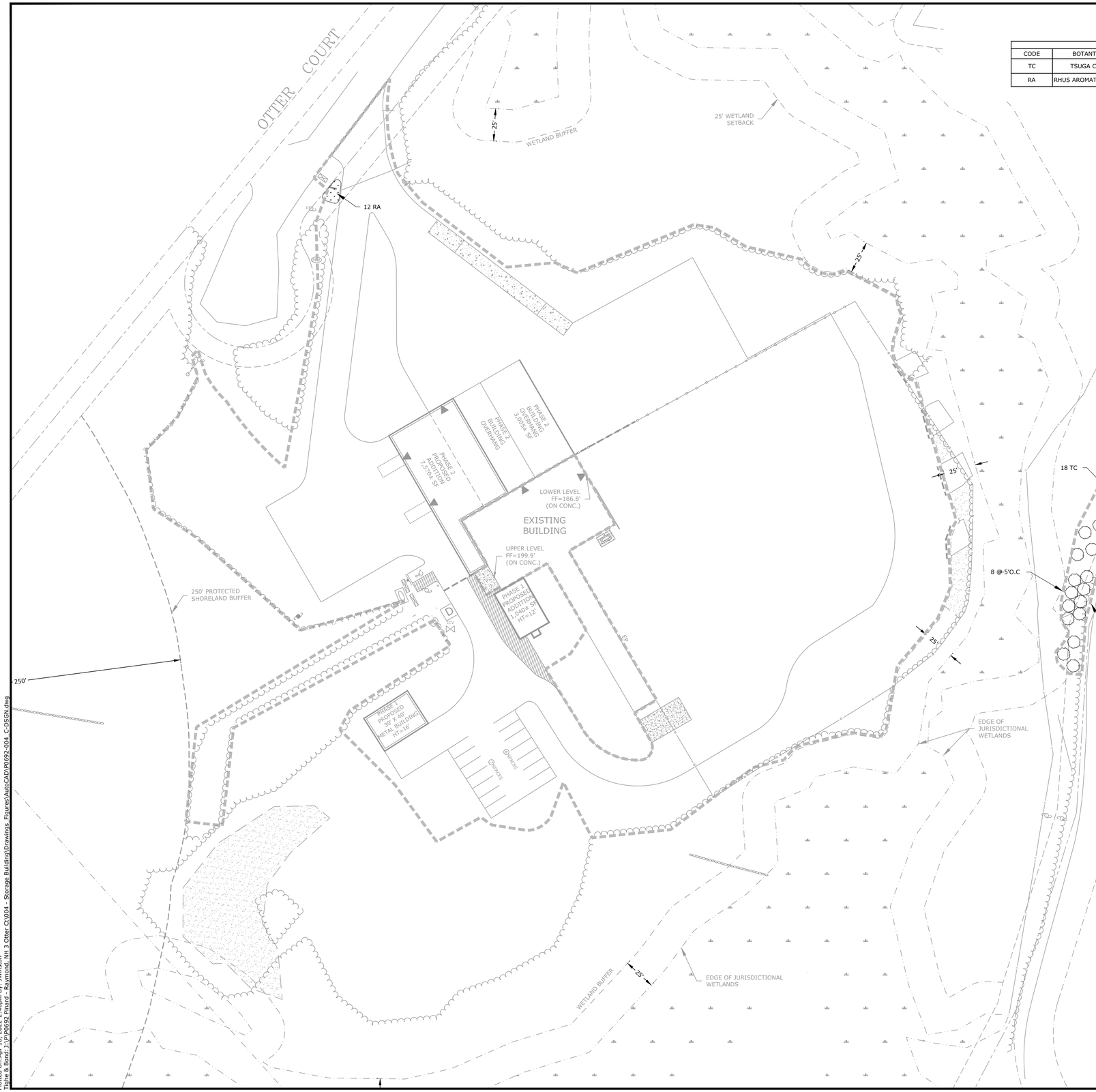
PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DSGN.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

SCALE: AS SHOWN

C-103

Last Saved: 4/18/2022
Printed: Jan 05, 2022 - 2:45pm By: JWinston
Tighe & Bond: J:\P\P0692 Pinard - Raymond, NH 3 Otter Ct\004 - Storage Building\Drawings, Figures\AutoCAD\P0692-004_C-DSGN.dwg



PLANT SCHEDULE				
CODE	BOTANTICAL NAME	COMMON NAME	SIZE	REMARKS
TC	TSUGA CANADENSIS	CANADIAN HEMLOCK	8-10' HT	B & B (PEST FREE)
RA	RHUS AROMATICA "GRO - LOW"	GRO - LOW SUMAC	5 GAL.	CONTAINER

LANDSCAPE NOTES:

1. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON THIS PLAN. NO SUBSTITUTIONS WILL BE PERMITTED UNLESS APPROVED BY OWNER. ALL PLANTS SHALL BE NURSERY GROWN.
2. ALL PLANTS SHALL BE NURSERY GROWN AND PLANTS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS, INCLUDING BUT NOT LIMITED TO SIZE, HEALTH, SHAPE, ETC., AND SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO ARRIVAL ON-SITE AND AFTER PLANTING.
3. PLANT STOCK SHALL BE GROWN WITHIN THE HARDINESS ZONES 4 THRU 7 ESTABLISHED BY THE PLANT HARDINESS ZONE MAP, MISCELLANEOUS PUBLICATIONS NO. 814, AGRICULTURAL RESEARCH SERVICE, UNITED STATES DEPARTMENT AGRICULTURE, LATEST REVISION.
4. PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE PRIOR TO DIGGING.
5. THE NUMBER OF EACH INDIVIDUAL PLANT TYPE AND SIZE PROVIDED IN THE PLANT LIST OR ON THE PLAN IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF A DISCREPANCY EXISTS BETWEEN THE NUMBER OF PLANTS ON THE LABEL AND THE NUMBER OF SYMBOLS SHOWN ON THE DRAWINGS, THE GREATER NUMBER SHALL APPLY.
6. NO SUBSTITUTION OF PLANT MATERIALS WILL BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR SHALL LOCATE, VERIFY AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWN WORK OR PLANTING. ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES SHALL IMMEDIATELY BE REPORTED TO THE OWNER SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.
8. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED, SHALL RECEIVE 6" OF LOAM AND SEED. NO FILL SHALL BE PLACED IN ANY WETLAND AREA.
9. THREE INCHES (3") OF BARK MULCH IS TO BE USED AROUND THE TREE AND SHRUB PLANTING AS SPECIFIED IN THE DETAILS.
10. SEE PLANTING DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
11. TREE STAKES SHALL REMAIN IN PLACE FOR NO LESS THAN 6 MONTHS AND NO MORE THAN 1 YEAR.
12. PLANTING SHALL BE COMPLETED FROM APRIL 15TH THROUGH OCTOBER 1ST. NO PLANTING DURING JULY AND AUGUST UNLESS SPECIAL PROVISIONS ARE MADE FOR DROUGHT.
13. PARKING AREA PLANTED ISLANDS TO HAVE MINIMUM OF 1'-0" TOPSOIL PLACED TO WITHIN 3 INCHES OF THE TOP OF CURB ELEVATION. REMOVE ALL CONSTRUCTION DEBRIS BEFORE PLACING TOPSOIL.
14. TREES SHALL BE PRUNED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI A300 TREES, SHRUBS AND OTHER WOOD PLANT MAINTENANCE STANDARD PRACTICES.
15. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON. LANDSCAPE CONTRACTOR SHALL COORDINATE WATERING SCHEDULE WITH OWNER DURING THE ONE (1) YEAR GUARANTEE PERIOD.
16. EXISTING TREES AND SHRUBS SHOWN ON THE PLAN ARE TO REMAIN UNDISTURBED. ALL EXISTING TREES AND SHRUBS SHOWN TO REMAIN ARE TO BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK. ANY EXISTING TREE OR SHRUB SHOWN TO REMAIN, WHICH IS REMOVED DURING CONSTRUCTION, SHALL BE REPLACED BY A TREE OF COMPARABLE SIZE AND SPECIES TREE OR SHRUB.
17. THE CONTRACTOR SHALL GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING AND ACCEPTABLE CONDITION FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE OF SUBSTANTIAL COMPLETION. ALL GRASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE LANDSCAPE ARCHITECT, SHOW LESS THAN 80% HEALTHY GROWTH AT THE END OF ONE YEAR PERIOD SHALL BE REPLACED BY THE CONTRACTOR.
18. UPON EXPIRATION OF THE CONTRACTOR'S ONE YEAR GUARANTEE PERIOD, THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE INCLUDING WATERING DURING PERIODS OF DROUGHT
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTING AND LAWNS AGAINST DAMAGE FROM ONGOING CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL ACCEPTANCE OF ALL THE PLANTINGS.
20. PRE-PURCHASE PLANT MATERIAL AND ARRANGE FOR DELIVERY TO MEET PROJECT SCHEDULE AS REQUIRED IT MAY BE NECESSARY TO PRE-DIG CERTAIN SPECIES WELL IN ADVANCE OF ACTUAL PLANTING DATES.

LEGEND

- MATCH LINE
- PROPERTY LINE
- BUILDING SETBACK
- EDGE OF WETLAND
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING STONE WALL
- EXISTING GUARDRAIL
- PROPOSED GUARDRAIL
- EXISTING FENCE
- PROPOSED FENCE
- LIMIT OF WORK
- PROPOSED [BITUMINOUS] CONCRETE SI
- PROPOSED STAMPED WALKWAY
- PROPOSED CONCRETE PAD
- EXISTING SIGN
- PROPOSED SIGN
- EXISTING BOLLARD
- PROPOSED BOLLARD
- EXISTING LIGHT
- PROPOSED LIGHT POLE BASE
- PROPOSED LANDSCAPING
- EXISTING TREE
- EXISTING BOULDER

0 40' 80'
GRAPHIC SCALE

N

Tighe&Bond

LICENSED LANDSCAPE ARCHITECT
RALPH GORDON LEEDY, JR.
007
STATE OF NEW HAMPSHIRE
4/18/2022

FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

Pinard Waste Systems, Inc.

3 Otter Court
Raymond,
New Hampshire

Mark	Date	Description
1	4/18/22	Revised per Town review comments

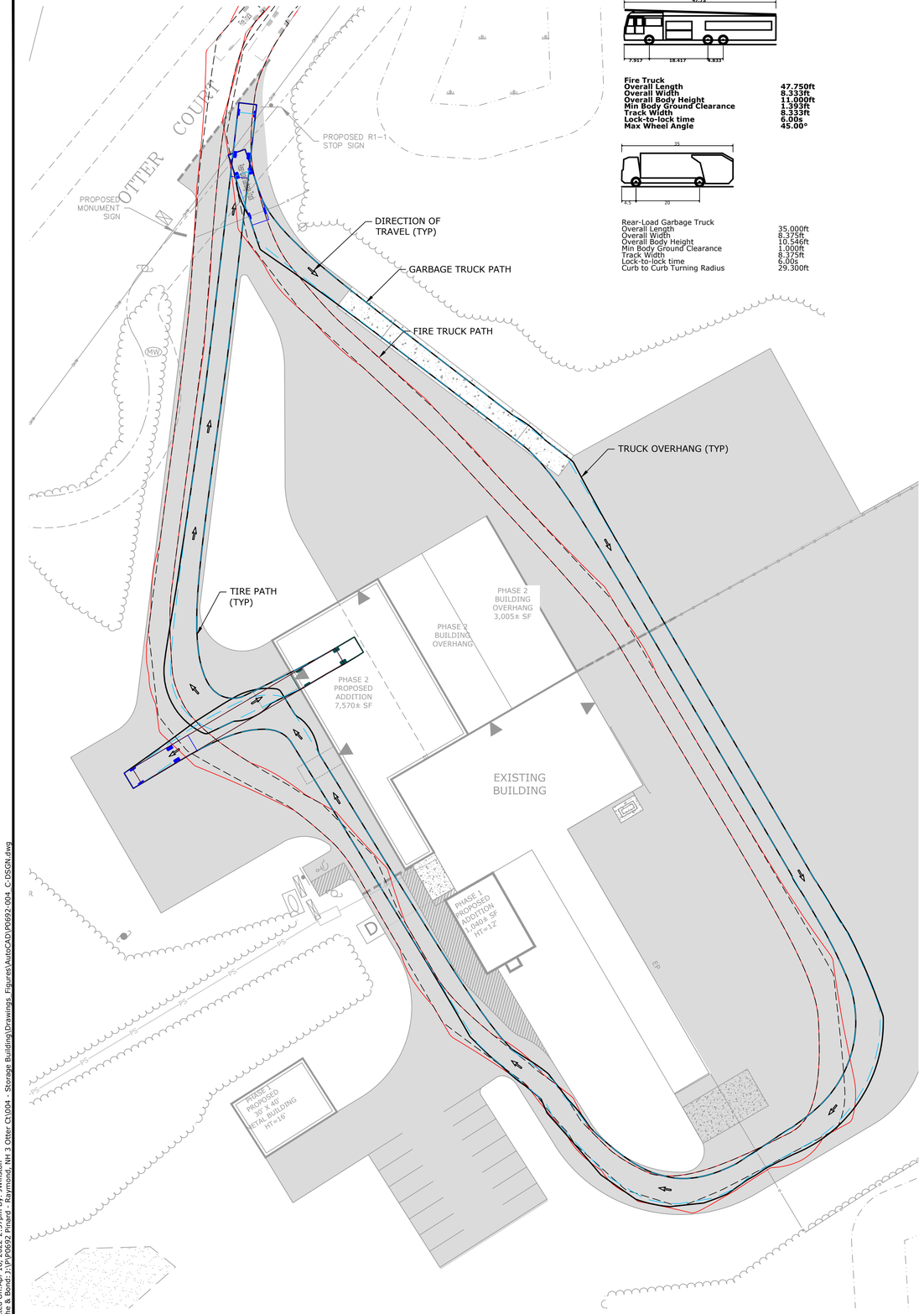
PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DSGN.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

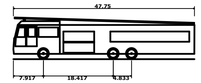
LANDSCAPE PLAN

SCALE: AS SHOWN

C-104

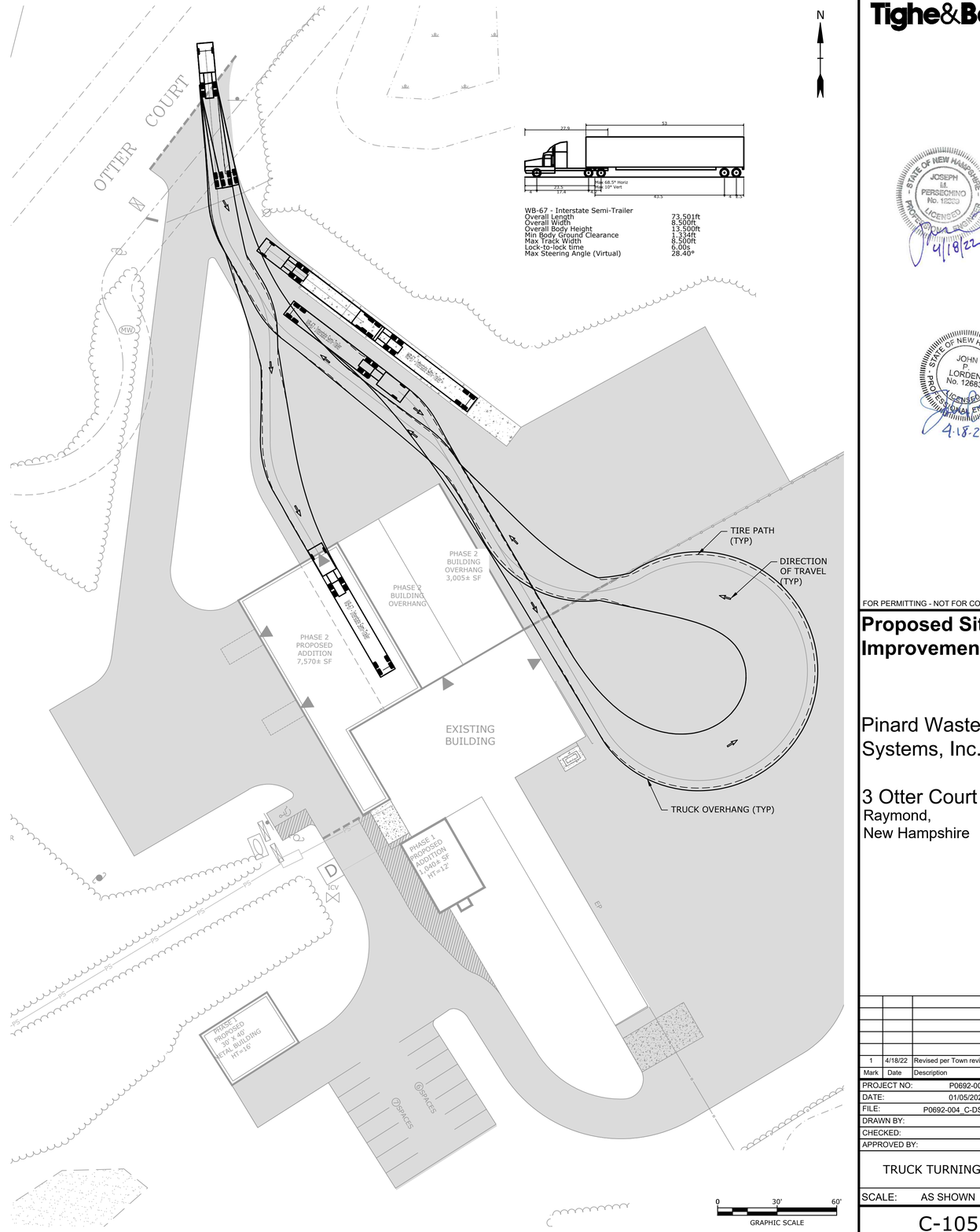
Last Saved: 4/18/2022
Printed: Oct 18, 2022 - 2:46pm By: JWinston
Tighe & Bond: J:\P\P0692 Pinard - Raymond, NH 3 Otter Ct\004 - Storage Building\Drawings, Figures\AutoCAD\P0692-004_C-DSGN.dwg





Fire Truck	
Overall Length	47.750ft
Overall Width	8.333ft
Overall Body Height	11.000ft
Min Body Ground Clearance	1.393ft
Track Width	8.333ft
Lock-to-lock time	6.00s
Max Wheel Angle	45.00°

Rear-Load Garbage Truck	
Overall Length	35.000ft
Overall Width	8.375ft
Overall Body Height	10.546ft
Min Body Ground Clearance	1.000ft
Track Width	8.375ft
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	29.300ft



WB-67 - Interstate Semi-Trailer	
Overall Length	73.501ft
Overall Width	8.500ft
Overall Body Height	13.500ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.500ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	28.40°

Tighe&Bond

FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

Pinard Waste Systems, Inc.

3 Otter Court
Raymond,
New Hampshire

Mark	Date	Description
1	4/18/22	Revised per Town review comments

PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DSGN.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

TRUCK TURNING PLAN

SCALE: AS SHOWN

C-105

Last Saved: 4/18/2022
Plotted: Oct 18, 2022 - 2:57pm By: JWinston
Tighe & Bond: J:\P\P0692 Pinard - Raymond, NH 3 Otter Ct\004 - Storage Building\Drawings, Figures\AutoCAD\P0692-004_C-DSGN.dwg

PARKING LOT AREA
Illuminance (Fc)
Average = 0.85
Maximum = 1.7
Minimum = 0.3
Avg/Min Ratio = 2.77
Max/Min Ratio = 5.33

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Description
	6	P4	Single	GLEON-SA2C-740-U-T4FT / SSS5A25SFN1 MOUNTED ON 2.5' BASE BY OTHERS (22.5' AFG)
	1	S5-2	Back-Back	GLEON-SA1C-740-U-5WQ/ SSS5A25SFN2 MOUNTED ON 2.5' BASE BY OTHERS (22.5' AFG)
	7	W1	Single	XTOR9A/ MTD 20' AFG
	1	W2	Single	XTOR8B/ MTD 20' AFG
	6	W3	Single	XTOR2B / WALL MTD 10' AFG

LIGHTING NOTES:

1. CONTRACTOR TO COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE AND POLE MODEL AND COLOR.
2. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS, CONCRETE BASES, WIRING AND INSTALLATION OF ALL LIGHT FIXTURES AND WARRANTEE LABOR.
3. THE CONTRACTOR SHALL COORDINATE DELIVERY SCHEDULES OF THE FIXTURES, PROVIDING INSURANCE AGAINST DAMAGE AND THEFT OF THE FIXTURES UNTIL SUBSTANTIAL COMPLETION INSTALLING THE FIXTURE AND WIRING THE FIXTURES TO THE SITE ELECTRICAL JUNCTION BOX LOCATED ON THE FRONT WALL OF THE BUILDING.
4. SITE LIGHTING TO BE MCGRAW EDITION GALLERIA FIXTURE, 30' POLES, 400 WATT HIGH PRESSURE SODIUM.
5. CONTRACTOR TO COORDINATE WITH ELECTRICAL DRAWINGS FOR CONDUIT SIZE, LOCATION AND CIRCUITRY PLAN.
6. COORDINATE CONNECTION AT BUILDING WITH BUILDING DRAWINGS.

POLE MOUNT FIXTURES
P4 & S5-2

WALL MOUNT FIXTURES
W1, W2, & W3

LIGHTING DESIGN:
CHARRON INC.
40 LONDONDERRY TURNPIKE
HOOKSETT, NH 03106
(603) 624-4827

0 40' 80'
GRAPHIC SCALE

Tighe&Bond

FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

Pinard Waste Systems, Inc.

3 Otter Court
Raymond,
New Hampshire

Mark	Date	Description
1	4/18/22	Revised per Town review comments

PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DSGN.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

PHOTOMETRIC PLAN

SCALE: AS SHOWN

C-106

Last Saved: 4/18/2022
Plotted On:Apr 18, 2022-2:47pm By: JWinston
Tighe & Bond: J:\P\P0692 Pinard - Raymond, NH 3 Otter Ct\004 - Storage Building\Drawings_Figures\AutoCAD\P0692-004_C-DSGN.dwg

GENERAL PROJECT INFORMATION

PROJECT OWNER: GROUP PINARD, LLC
32 WEST RIVER ROAD
HOOKSETT, NH 03106
PROJECT NAME: PINARD WASTE SYSTEMS, INC.
PROJECT ADDRESS: 3 OTTER COURT
RAYMOND, NH
PROJECT MAP / LOT: MAP 28-4 / LOT 2
PROJECT LATITUDE: 43'-02'-00"N
PROJECT LONGITUDE: 71'-10'-03"W

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF A 1,260 SF BUILDING ADDITION, A 1,200 SF METAL STORAGE BUILDING AND ASSOCIATED SITE IMPROVEMENTS. THE ADDITIONAL IMPROVEMENTS INCLUDE STORMWATER TREATMENT FOR ADDITIONAL IMPERVIOUS AREAS, LIGHTING AND PARKING AREAS.

DISTURBED AREA

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 4.8 ACRES.

SOIL CHARACTERISTICS

BASED ON THE USCS SOIL SURVEY FOR ROCKINGHAM COUNTY, THE SOILS CONSIST OF HINCKLEY SOILS WHICH ARE EXCESSIVELY DRAINED SOILS, FREETOWN WHICH AREA VERY POORLY DRAINED SOILS, AND SAND AND GRAVEL PITS WHICH ARE NOT CLASSIFIED.

NAME OF RECEIVING WATERS

THE STORMWATER RUNOFF FROM THE SITE WILL BE DISCHARGED VIA OVERLAND FLOW TO AN UNNAMED WETLAND AND ULTIMATELY FLOWS TO THE LAMPREY RIVER.

CONSTRUCTION SEQUENCE OF MAJOR ACTIVITIES:

1. CUT AND CLEAR TREES.
2. CONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS:
   - NEW CONSTRUCTION
   - DEVELOPMENT OF BORROW PIT AREAS
   - DISPOSAL OF SEDIMENT SPOIL, STUMP AND OTHER SOLID WASTE
   - FLOOD PLAIN EXCAVATION WORK
   - CONTROL OF DUST
   - CONSTRUCTION OF ACCESS ROAD
   - NEARNESS OF CONSTRUCTION SITE TO RECEIVING WATERS
   - CONSTRUCTION DURING LATE WINTER AND EARLY SPRING
3. ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMPS PRIOR TO DIRECTING RUNOFF TO THEM.
4. CLEAR AND DISPOSE OF DEBRIS.
5. CONSTRUCT TEMPORARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED.
6. GRADE AND GRAVEL DRIVEWAYS AND PARKING AREAS - ALL DRIVES AND PARKING AREA SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
7. BEGIN BUILDING ADDITION AND METAL BUILDING CONSTRUCTION.
8. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
9. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER EROSION CONTROL MEASURES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.
10. SEDIMENT TRAPS AND/OR BASINS SHALL BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.
11. FINISH PAVING ALL ROADWAYS AND PARKING LOTS.
12. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.
13. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
14. REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

SPECIAL CONSTRUCTION NOTES:

1. THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.
2. THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES AND PRACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE STORMWATER MANUAL VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION" PREPARED BY THE NHDES.
2. PRIOR TO ANY WORK OR SOIL DISTURBANCE, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EROSION CONTROL MEASURES AS REQUIRED IN THE PROJECT MANUAL.
3. CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL BARRIERS, INCLUDING HAY BALES, SILT FENCES, MULCH BERMS, SILT SACKS AND SILT SOCKS AS SHOWN IN THESE DRAWINGS AS THE FIRST ORDER OF WORK.
4. SILT SACK INLET PROTECTION SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASIN INLETS WITHIN THE WORK LIMITS AND BE MAINTAINED FOR THE DURATION OF THE PROJECT.
5. PERIMETER CONTROLS INCLUDING SILT FENCES, MULCH BERM, SILT SOCK, AND/OR HAY BALE BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL NON-PAVED AREAS HAVE BEEN STABILIZED.
6. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
7. ALL DISTURBED AREAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED AND FERTILIZER.
8. INSPECT ALL INLET PROTECTION AND PERIMETER CONTROLS WEEKLY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.
9. CONSTRUCT EROSION CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 3:1.

STABILIZATION:

1. AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED:
   A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
   B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
   C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED;
   D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.;
   E. IN AREAS TO BE PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM 304.2 HAVE BEEN INSTALLED.
2. WINTER STABILIZATION PRACTICES:
   A. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;
   B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS;
   C. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT;
3. STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE USED INCLUDE:
   A. TEMPORARY SEEDING;
   B. MULCHING.
4. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
5. WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN THESE AREAS, SILT FENCES, MULCH BERMS, HAY BALE BARRIERS AND ANY EARTH/DIKES SHALL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.
6. DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILT FENCES, MULCH BERMS, HAY BALE BARRIERS, OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY OCTOBER 15.

DUST CONTROL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.
2. DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING.
3. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ABUTTING AREAS.

STOCKPILES:

1. LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS.
2. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE ONSET OF PRECIPITATION.
3. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.
4. PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.

OFF SITE VEHICLE TRACKING:

1. THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO ANY EXCAVATION ACTIVITIES.

VEGETATION:

1. TEMPORARY GRASS COVER:
   A. SEEDBED PREPARATION:
      a. APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE;
   B. SEEDING:
      a. UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE;
      b. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED;
      c. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING;
   C. MAINTENANCE:
      a. TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.).
2. PERMANENT MEASURES AND PLANTINGS:
   A. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF THREE (3) TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5;
   B. FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER;
   C. SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2 POUNDS PER INCH OF WIDTH;
   D. SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH;
   E. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE;
   F. THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED;
   G. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED;
   H. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

SEED MIX	APPLICATION RATE
CREEPING RED FESCUE	175 LBS/ACRE
KENTUCKY BLUEGRASS	25 LBS/ACRE
PERENNIAL RYE GRASS	50 LBS/ACRE

   IN NO CASE SHALL THE WEED CONTENT EXCEED ONE (1) PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLACE OVER SNOW.
3. DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL):
   A. FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY SEED MIXTURE AT TWICE THE INDICATED RATE. APPLY MULCH AS INDICATED FOR PERMANENT MEASURES.

ALLOWABLE NON-STORMWATER DISCHARGES:

1. FIRE-FIGHTING ACTIVITIES;
2. FIRE HYDRANT FLUSHING;
3. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED;
4. WATER USED TO CONTROL DUST;
5. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING;
6. ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED;
7. PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED;
8. UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION;
9. UNCONTAMINATED GROUND WATER OR SPRING WATER;
10. FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED;
11. UNCONTAMINATED EXCAVATION DEWATERING;
12. LANDSCAPE IRRIGATION.

WASTE DISPOSAL:

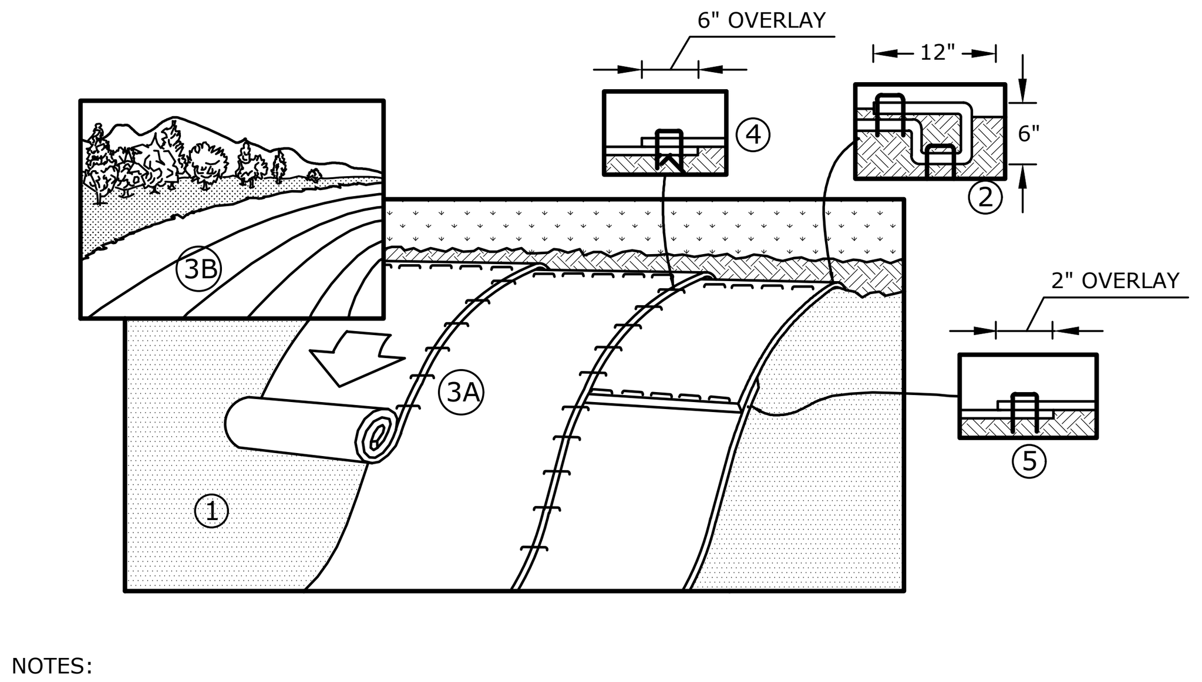
1. WASTE MATERIAL:
   A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER;
   B. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE;
   C. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
2. HAZARDOUS WASTE:
   A. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER;
   B. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
3. SANITARY WASTE:
   A. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

SPILL PREVENTION:

1. CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW.
2. THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
   A. GOOD HOUSEKEEPING - THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION:
      a. ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON SITE;
      b. ALL REGULATED MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE, ON AN IMPERVIOUS SURFACE;
      c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED;
      d. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS;
      e. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER;
      f. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
      g. THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
   B. HAZARDOUS PRODUCTS - THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
      a. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
      b. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION;
      c. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.
   C. PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE:
      a. PETROLEUM PRODUCTS:
      i. ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE;
      ii. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
      iii. SECURE FUEL STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;
      iv. INSPECT FUEL STORAGE AREAS WEEKLY;
      v. WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS;
      vi. COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;
      vii. SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
      viii. THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
         (1) EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;
         (2) PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS;
         (3) HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
         (4) USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES;
         (5) PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
      ix. FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT SHALL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT, OR ITS SUCCESSOR DOCUMENT. HTTPS://WWW.DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF
      b. FERTILIZERS:
      i. FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS;
      ii. ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER;
      iii. STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
      c. PAINTS:
      i. ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE;
      ii. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM;
      iii. EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
   D. SPILL CONTROL PRACTICES - IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
      a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;
      b. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE;
      c. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;
      d. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE;
      e. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED;
      f. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
   E. VEHICLE FUELING AND MAINTENANCE PRACTICE:
      a. CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPMENT/VEHICLE FUELING AND MAINTENANCE AT AN OFF-SITE FACILITY;
      b. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY;
      c. IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED;
      d. CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA;
      e. CONTRACTOR SHALL REGULARLY INSPECT VEHICLES FOR LEAKS AND DAMAGE;
      f. CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN REPLACING SPENT FLUID.

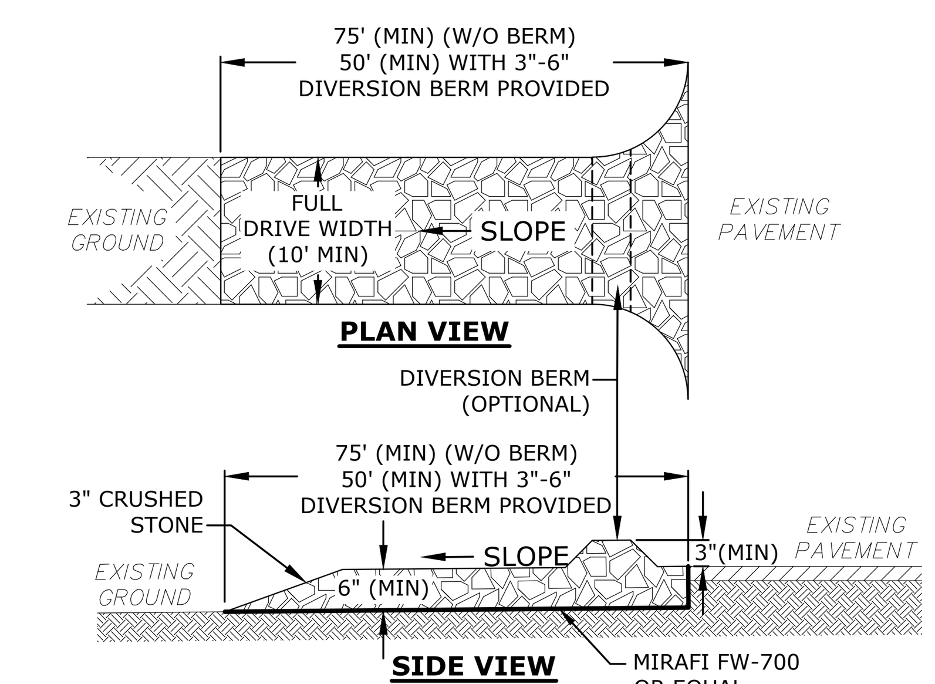
EROSION CONTROL OBSERVATIONS AND MAINTENANCE PRACTICES

1. THIS PROJECT (DOES NOT) EXCEED(S) ONE (1) ACRE OF DISTURBANCE AND THUS (DOES NOT) REQUIRE(S) A SWPPP. THE SWPPP SHALL BE PREPARED BY THE ENGINEER (CONTRACTOR). THE CONTRACTOR SHALL BE FAMILIAR WITH THE SWPPP AND KEEP AN UPDATED COPY OF THE SWPPP ONSITE AT ALL TIMES.
2. THE FOLLOWING REPRESENTS THE GENERAL OBSERVATION AND REPORTING PRACTICES THAT SHALL BE FOLLOWED AS PART OF THIS PROJECT:
   A. OBSERVATIONS OF THE PROJECT FOR COMPLIANCE WITH THE SWPPP SHALL BE MADE BY THE ENGINEER (CONTRACTOR) AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A STORM 0.25 INCHES OR GREATER;
   B. AN OBSERVATION REPORT SHALL BE MADE AFTER EACH OBSERVATION AND DISTRIBUTED TO THE ENGINEER, THE OWNER, AND THE CONTRACTOR;
   C. A REPRESENTATIVE OF THE SITE CONTRACTOR, SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES;
   D. IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.



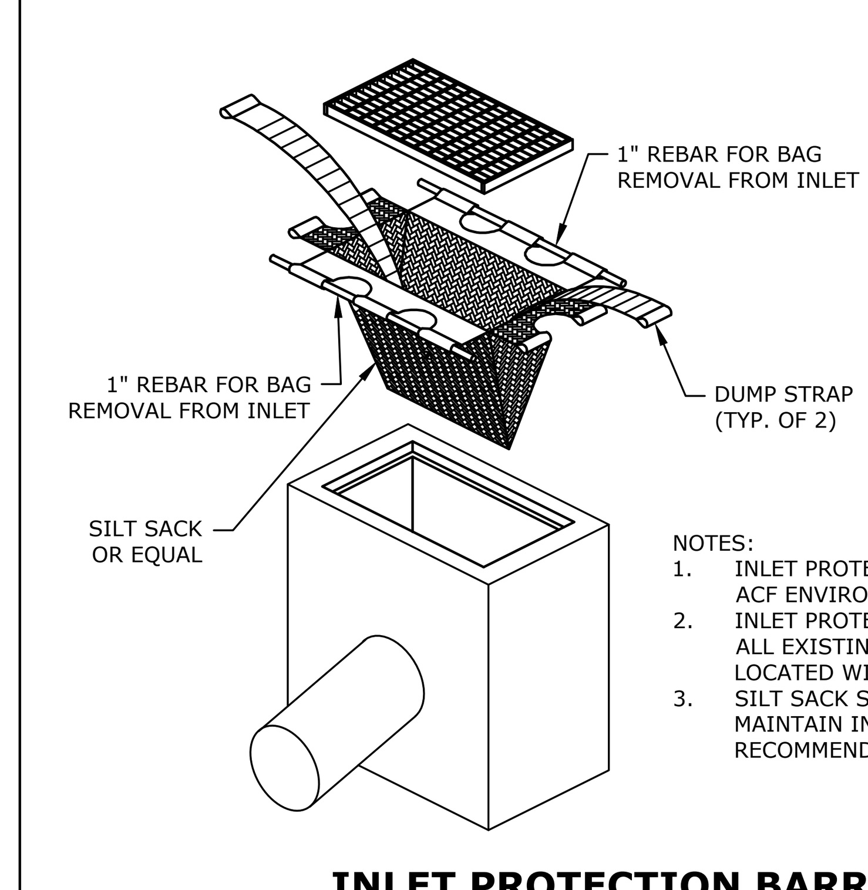
NOTES:
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE, 36" OVER THE GRADE BREAK, BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF TAPLES/STAKES 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES SPACED 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN ON THE STAPLE PATTERN GUIDE.
4. STAPLE LENGTHS SHALL BE A MINIMUM OF 8 INCHES.
5. INSTALL WHERE SLOPES ARE EQUAL TO OR GREATER THAN 3:1.

EROSION CONTROL BLANKET
NO SCALE



NOTES:
1. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT FROM THE SITE. WHEN WASHING IS REQUIRED, IT SHALL BE DONE SO RUNOFF DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS

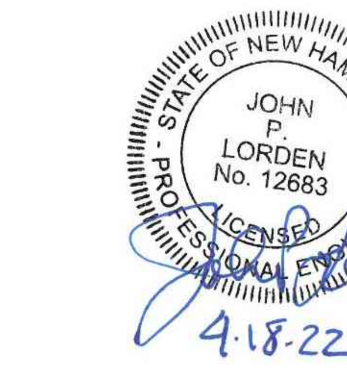
STABILIZED CONSTRUCTION EXIT
NO SCALE



NOTES:
1. INLET PROTECTION BARRIER SHALL BE SILT SACK BY ACF ENVIRONMENTAL OR APPROVED EQUAL.
2. INLET PROTECTION BARRIER SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASINS LOCATED WITHIN THE LIMIT OF WORK.
3. SILT SACK SHALL BE INSPECTED REGULARLY AND MAINTAIN IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

INLET PROTECTION BARRIER
NO SCALE

Tighe&Bond



FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

Pinard Waste Systems, Inc.

3 Otter Court
Raymond, New Hampshire

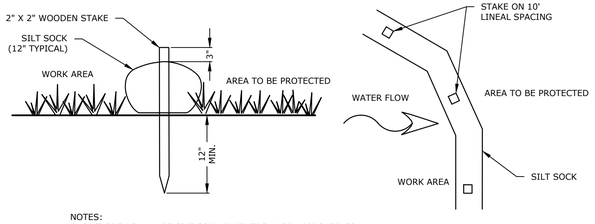
Mark	Date	Description
1	4/18/22	Revised per Town review comments

PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DTLS.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

EROSION CONTROL NOTES AND DETAILS

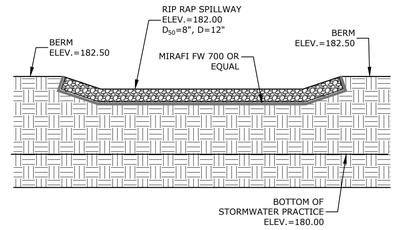
SCALE: AS SHOWN

C-501



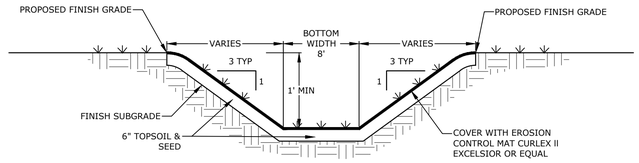
NOTES:
1. SILT SOCK SHALL BE SILT SOXX BY FILTREXX OR APPROVED EQUAL.
2. SILT SOCK SHALL BE FILLED WITH FILTERMEDIA BY FILTREXX OR APPROVED EQUAL.
3. WHERE TWO SILT SOCKS ARE JOINED, A MINIMUM OF 2 FEET OF OVERLAP SHALL BE MAINTAINED.
4. SILT SOCKS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. CONTRACTOR TO INSTALL SILT SOCK IN J-HOOK OR SMILE CONFIGURATION TO LIMIT CONCENTRATION OF STORMWATER RUNOFF AT A SINGLE DISCHARGE POINT.

SILT SOCK
NO SCALE



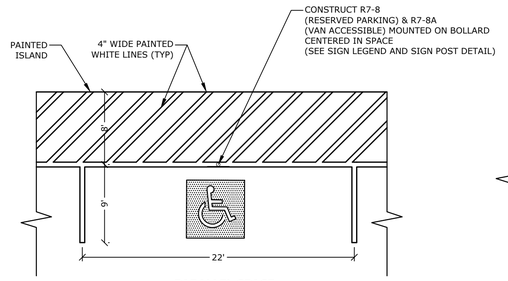
NOTES:
1. SEE GRADING, DRAINAGE, AND EROSION CONTROL PLAN FOR LOCATIONS AND DIMENSIONS.

RIP-RAP SPILLWAY FOR GRAVEL WETLAND CELL #2
NO SCALE

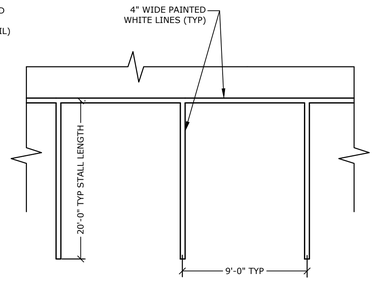


NOTES:
1. THE FOUNDATION AREA OF THE WATERWAY SHALL BE CLEARED AND GRUBBED OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL. MATERIALS REMOVED SHALL BE DISPOSED OF SO THEY WILL NOT INTERFERE WITH THE CONSTRUCTION OR PROPER FUNCTIONING OF THE WATERWAY.
2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS-SECTION AS REQUIRED TO MEET THE DESIGN CRITERIA. THE WATERWAY SHALL BE FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. EARTH FILLS REQUIRED TO MEET SUBGRADE REQUIREMENTS BECAUSE OF OVER EXCAVATION OR TOPOGRAPHY SHALL BE COMPACTED TO THE SAME DENSITY AS THE SURROUNDING SOIL TO PREVENT UNEQUAL SETTLEMENT THAT COULD CAUSE DAMAGE TO THE COMPLETED WATERWAY. EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE EROSION AND AIR AND WATER POLLUTION. ALL APPROPRIATE STATE AND LOCAL LAWS AND REGULATIONS SHALL BE COMPLIED WITH FOR INSTALLATION.
5. VEGETATION SHALL BE ESTABLISHED IN THE SWALE PRIOR TO ALLOWING STORMWATER RUNOFF TO FLOW THROUGH THE SWALE.
6. MAINTENANCE OF THE VEGETATION IN THE GRASSED WATERWAY IS EXTREMELY IMPORTANT IN ORDER TO PREVENT RILLING, EROSION, AND FAILURE OF THE WATERWAY. MOWING SHOULD BE DONE FREQUENTLY ENOUGH TO CONTROL ENCROACHMENT OF WEEDS AND WOODY VEGETATION AND TO KEEP THE GRASSES IN A VIGOROUS CONDITION. THE VEGETATION SHOULD NOT BE MOWED TOO CLOSELY SO AS TO REDUCE THE EROSION RESISTANCE IN THE WATERWAY.
7. THE WATERWAY SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE THE CONDITION OF THE WATERWAY. RILLS AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND REVEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION.
8. PERIODIC APPLICATIONS OF LIME AND FERTILIZER MAY BE NEEDED TO MAINTAIN VIGOROUS GROWTH.

GRASS-LINED SWALE
NO SCALE

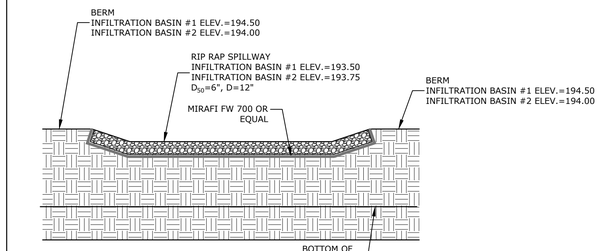


PARALLEL SPACE



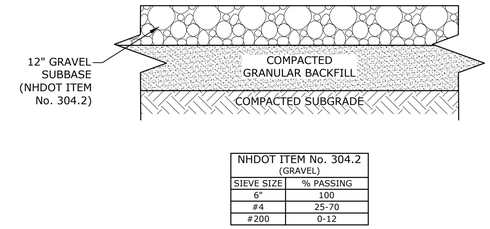
NOTE:
1. ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248-TYPE F. PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.
2. SYMBOLS & PARKING STALLS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND STATE AND LOCAL AND STATE REQUIREMENTS.
3. FINISH PAVEMENT GRADES AT ALL HANDICAP ACCESSIBLE STALLS AND PAINTED ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.

STALL STRIPING - SINGLE STRIPE
NO SCALE



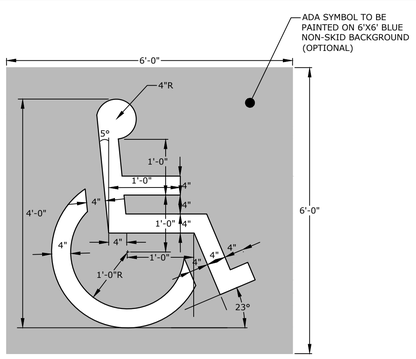
NOTES:
1. SEE GRADING, DRAINAGE, AND EROSION CONTROL PLAN FOR LOCATION AND DIMENSIONS.

RIP-RAP SPILLWAY FOR INFILTRATION BASINS
NO SCALE



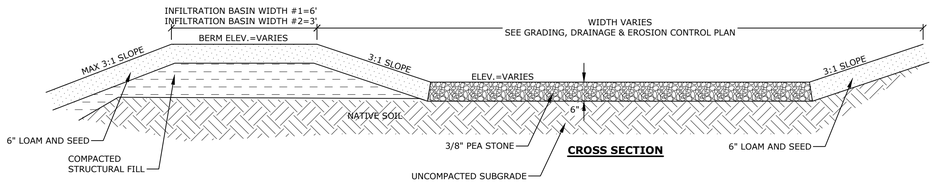
NHDOT ITEM No. 304.2 (GRAVEL)	
SIEVE SIZE	% PASSING
6"	100
#4	25-70
#200	0-12

GRAVEL BASE AREA
NO SCALE



NOTES:
1. SYMBOL SHALL BE CONSTRUCTED IN ALL ACCESSIBLE SPACES USING FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248-TYPE F. PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.
2. SYMBOL SHALL BE CONSTRUCTED TO THE LATEST ADA, STATE AND LOCAL REQUIREMENTS.

ACCESSIBLE SYMBOL
NO SCALE

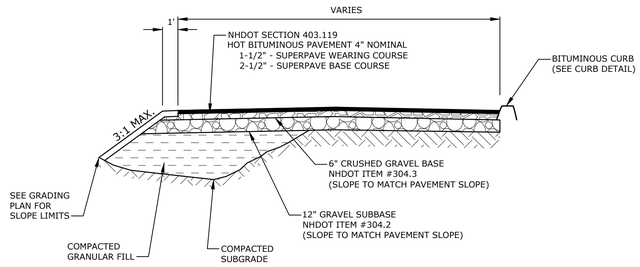


CROSS SECTION

NOTES:

1. SUBSOIL SHALL BE LEFT IN PLACE TO THE MAXIMUM EXTENT PRACTICAL AND SHALL NOT BE COMPACTED.
2. SUBSOIL SHALL BE SCARIFIED WITH TEETH OF EXCAVATOR PRIOR TO PLACING LOAM. SCARIFY PARALLEL WITH CONTOURS WORKING FROM THE CENTER OUTWARD. SOIL MUST BE DRY PRIOR TO PREPARATION.
3. ENGINEER SHALL INSPECT SUBGRADE PRIOR TO CONSTRUCTION TO CONFIRM SOIL TYPE AND SEASONAL HIGH WATER. IF REQUIRED A 6" PERFORATED UNDERDRAIN SHALL BE INSTALLED TO MAINTAIN A ONE FOOT SEPERATION FROM WATER TABLE. UNDERDRAIN SHALL BE DAYLIGHTED TO DRAIN.
4. EQUIPMENT SHALL NOT DRIVE ON SCARIFIED SOIL SURFACE.
5. LOAM SHALL BE PUSHED ONTO PREPARED SURFACE FROM THE SIDE.
6. SEED SHALL BE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES OR EQUAL.

INFILTRATION BASIN
NO SCALE



NOTES:
1. SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION.
2. SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.
3. A TACK COAT SHALL BE PLACED ON TOP OF BINDER COURSE PAVEMENT PRIOR TO PLACING WEARING COURSE.
4. THE GRAVELS SHALL BE COMPACTED AND ROLLED TRUE TO GRADE LINES. COMPACTION OF GRAVELS SHALL BE TO 95% OF THE SUB-GRADE MATERIAL'S MODIFIED PROCTOR VALUE.
5. THE MINIMUM GRADE FOR PARKING AREAS SHALL BE 0.5%. THE MAXIMUM GRADE SHALL BE 5%.
6. ALL CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

PAVEMENT SECTION
NO SCALE

Tighe&Bond

STATE OF NEW HAMPSHIRE – JOSEPH M. PERSECHINO No. 18000 LICENSED PROFESSIONAL ENGINEER
4/18/22

STATE OF NEW HAMPSHIRE – JOHN P. LORDEN No. 12683 LICENSED PROFESSIONAL ENGINEER
4.18.22

FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

Pinard Waste Systems, Inc.

3 Otter Court
Raymond,
New Hampshire

Mark	Date	Description
1	4/18/22	Revised per Town review comments

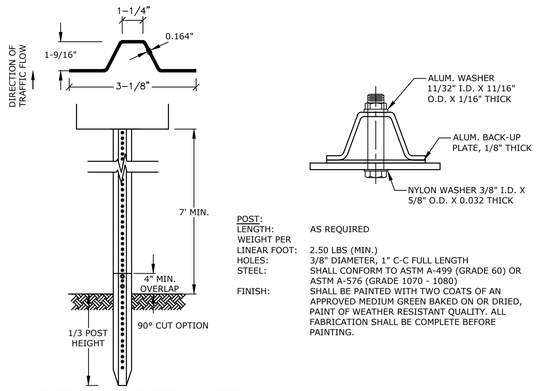
PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DTLS.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

DETAILS

SCALE: AS SHOWN

C-502

Last Saved: 4/16/2022
Plotted: Apr 18, 2022 - 11:45am By: JWinston
Tighe & Bond: J:\P\P0692 Pinard - Raymond, NH 3 Otter Ct\004 - Storage Building\Drawings_Figures\AutoCAD\P0692-004_C-DTLS.dwg



POST:
LENGTH: AS REQUIRED
WEIGHT PER LINEAR FOOT: 2.50 LBS (MIN.)
HOLES: 3/8" DIAMETER, 1" C-C FULL LENGTH
STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-576 (GRADE 1070 - 1080)
FINISH: SHALL BE PAINTED WITH TWO COATS OF AN APPROVED MEDIUM GREEN BAKED ON OR DRIED, PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.

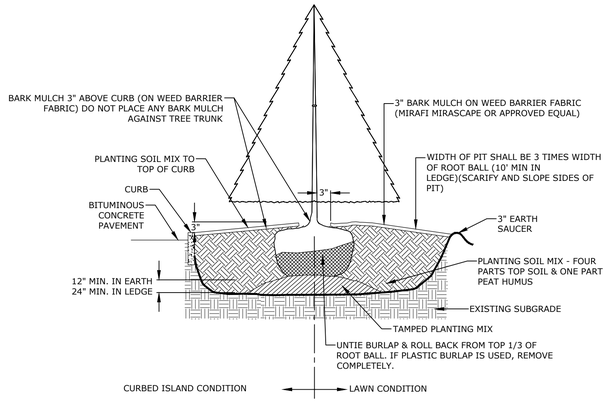
* IN LEDGE DRILL & GROUT TO A MIN OF 2'

R1-1
30"X30"
WHITE ON RED

R7-8
12"X18"
GREEN ON WHITE
W/WHITE ON BLUE
ACCESSIBLE SYMBOL

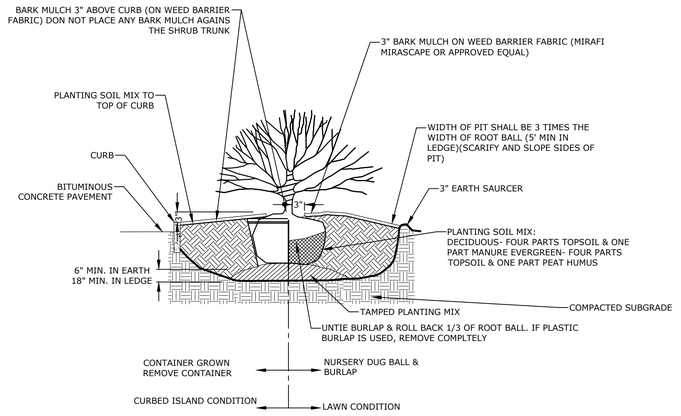
R7-8A
12"X6"
WHITE ON BLUE

SIGN LEGEND AND SIGN POST
NO SCALE



NOTE: PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED IN NURSERY, OR WITHIN 2" ABOVE.

EVERGREEN TREE PLANTING
NO SCALE



NOTE: PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED, OR WITHIN 2" ABOVE.

SHRUB PLANTING
NO SCALE

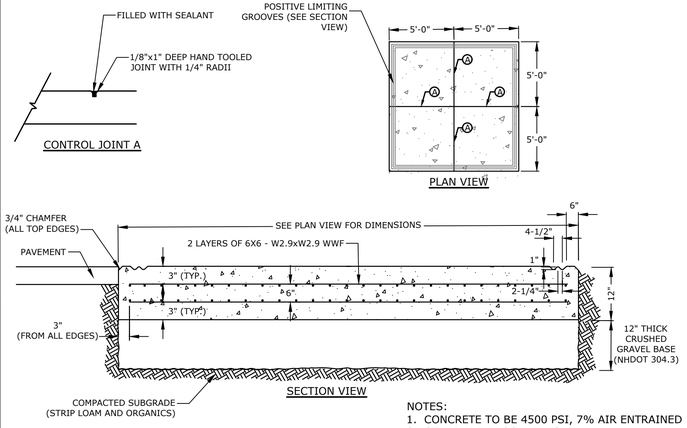
Tighe&Bond

FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

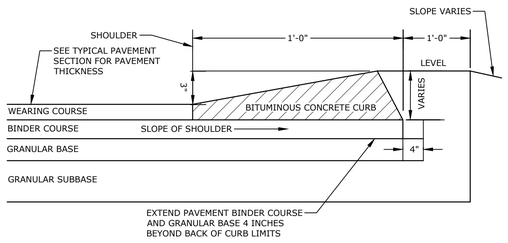
Pinard Waste Systems, Inc.

3 Otter Court
Raymond,
New Hampshire



NOTES:
1. CONCRETE TO BE 4500 PSI, 7% AIR ENTRAINED
2. STANDARD BROOM FINISH.

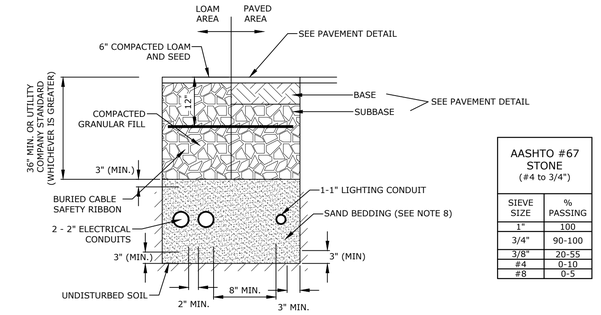
DUMPSTER PAD
NO SCALE



CAPE COD BERM
NO SCALE

GRANULAR FILL (GRAVEL)	
SIEVE SIZE	% PASSING
3"	95-100
#4	25-70

SAND BLANKET	
SIEVE SIZE	% PASSING
1/2"	100
#200	15 MAX



AASHTO #67 STONE (#4 to 3/4")	
SIEVE SIZE	% PASSING
1"	100
3/4"	90-100
3/8"	20-55
#4	0-10
#8	0-5

NOTE:
1. NUMBER, MATERIAL, AND SIZE OF UTILITY CONDUITS TO BE DETERMINED BY LOCAL UTILITY OR AS SHOWN ON ELECTRICAL DRAWINGS. CONTRACTOR TO PROVIDE ONE SPARE CONDUIT FOR EACH UTILITY TO BUILDING.
2. DIMENSIONS SHOWN REPRESENT OWNERS MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY BE GREATER BASED ON UTILITY COMPANY STANDARDS, BUT SHALL NOT BE LESS THAN THOSE SHOWN.
3. NO CONDUIT RUN SHALL EXCEED 360 DEGREES IN TOTAL BENDS.
4. A SUITABLE PULLING STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE UTILITY COMPANY IS NOTIFIED TO INSTALL CABLE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.
5. UTILITY COMPANY MUST BE GIVEN THE OPPORTUNITY TO INSPECT THE CONDUIT PRIOR TO BACKFILL. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS SHOULD THE UTILITY COMPANY BE UNABLE TO INSTALL ITS CABLE IN A SUITABLE MANNER.
6. ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND, WHERE APPLICABLE, THE NATIONAL ELECTRIC CODE.
7. ALL 90° SWEEPS WILL BE MADE USING RIGID GALVANIZED STEEL. SWEEPS WITH A 36 TO 48 INCH RADIUS.
8. SAND BEDDING TO BE REPLACED WITH CONCRETE ENCASEMENT WHERE COVER IS LESS THAN 3 FEET, WHEN LOCATED BELOW PAVEMENT, OR WHERE SHOWN ON THE UTILITIES PLAN.

ELECTRICAL AND LIGHTING CONDUIT
NO SCALE

Mark	Date	Description
1	4/18/22	Revised per Town review comments

PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DTLS.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

DETAILS

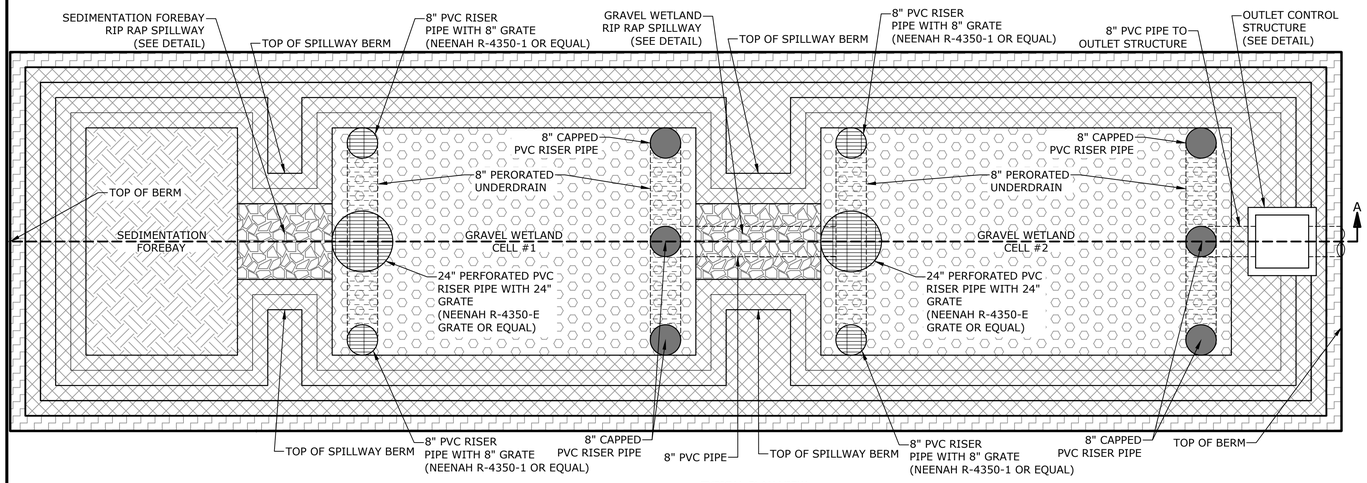
SCALE: AS SHOWN

C-503

Last Saved: 4/16/2022
Printed: Oct 06, 2022 - 12:13pm By: JWinston
Tighe & Bond: J:\P\P0692 Pinard - Raymond, NH 3 Otter Ct\004 - Storage Building\Drawings_Figures\AutoCAD\P0692-004_C-DTLS.dwg

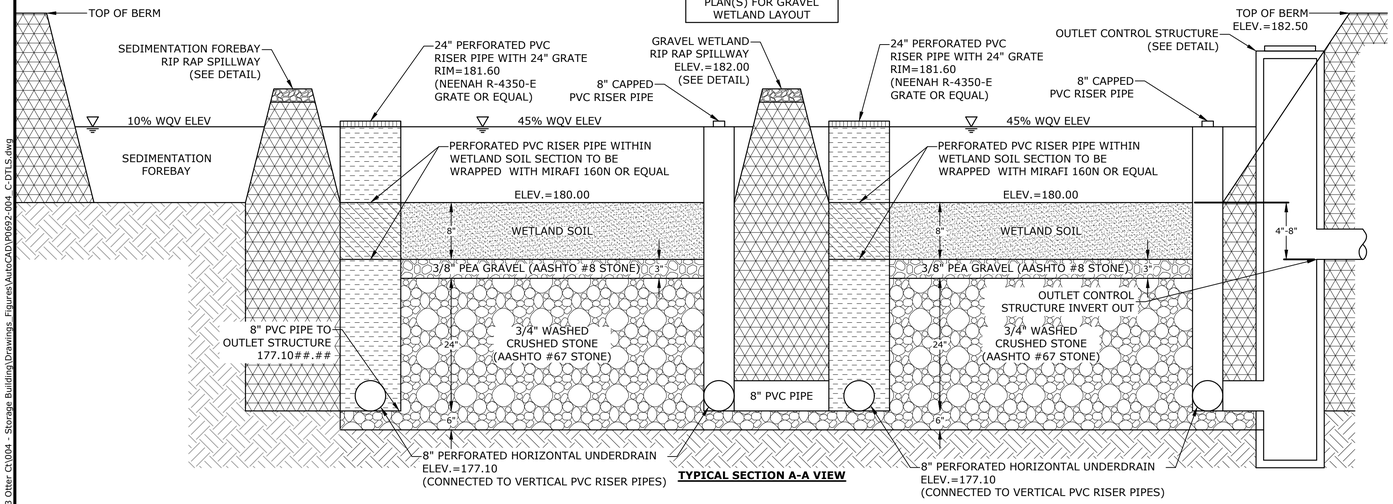
GRAVEL WETLAND PLANTING PLAN

SPECIES	PLANT SIZE	QUANTITY/SPACING
NEW ENGLAND EROSION CONTROL/RESTORATION MIX OR EQUIVALENT		35LB/ACRE
"RED OSIER DOGWOOD" CORNUS SERICEA	2'-3'	8'-10' ON CENTER
"SILKY DOGWOOD" CORNUS AMMOMUM AND "HIGHBUSH BLUEBERRY" VACCINUM CORYBOSSUSUM	2'-3'	8'-10' ON CENTER



TYPICAL PLAN VIEW

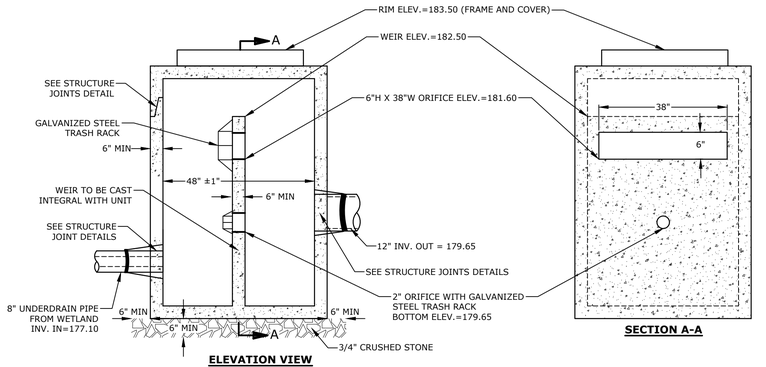
SEE GRADING & DRAINAGE PLAN(S) FOR GRAVEL WETLAND LAYOUT



TYPICAL SECTION A-A VIEW

NOTES:
1. WETLAND SOIL SHALL BE A SANDY CLAY LOAM WITH A HYDRAULIC CONDUCTIVITY OF 0.1-0.01 FT/DAY. ORGANIC CONTENT SHALL BE GREATER THAN 15% BY VOLUME. CLAY CONTENT SHALL BE LESS THAN 15% BY VOLUME.
2. INFILTRATION TESTING OF THE NATIVE SOILS AT THE SUBGRADE OF THE PROPOSED GRAVEL WETLAND SHALL OCCUR PRIOR TO THE INSTALLATION OF THE GRAVEL WETLAND AND SHALL BE COORDINATED WITH THE ENGINEER. IF THE NATIVE SOILS EXCEED A PERMEABILITY RATE OF 0.03 FT/DAY THE SOILS SHOULD AMENDED OR LINER ADDED AS DETERMINED BY THE ENGINEER.
3. PERFORATED PVC RISERS SHALL HAVE VERTICAL SLOTS CUT INTO PVC RISERS ABOVE GRADE MEASURING 3"x1/8".

GRAVEL WETLAND
NO SCALE



ELEVATION VIEW **SECTION A-A**

NOTES:
1. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE (TYPE II CEMENT).
2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER OF THE THIRDE WALL.
3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT.
4. THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING.
5. ALL JOINTS ON THE STRUCTURE AND PIPING SHALL BE WATERTIGHT.

OUTLET CONTROL STRUCTURE (POCS1)
NO SCALE

Tighe&Bond

STATE OF NEW HAMPSHIRE - JOSEPH M. PERSECHINO No. 16203 LICENSED PROFESSIONAL ENGINEER 4/18/22

STATE OF NEW HAMPSHIRE - JOHN P. LORDEN No. 12683 LICENSED PROFESSIONAL ENGINEER 4.18.22

FOR PERMITTING - NOT FOR CONSTRUCTION

Proposed Site Improvements

Pinard Waste Systems, Inc.

3 Otter Court
Raymond,
New Hampshire

Mark	Date	Description
1	4/18/22	Revised per Town review comments

PROJECT NO:	P0692-004
DATE:	01/05/2022
FILE:	P0692-004_C-DTLS.DWG
DRAWN BY:	JRW
CHECKED:	JPL
APPROVED BY:	JMP

DETAILS

SCALE: AS SHOWN

C-504

Last Saved: 4/16/2022
Plotted: Apr 18, 2022 - 11:45am By: JWinston
Tighe & Bond: J:\P\P0692 Pinard - Raymond, NH 3 Otter Ct\004 - Storage Building\Drawings_Figures\AutoCAD\P0692-004_C-DTLS.dwg

Planning Board Minutes
April 21, 2022
7:00 PM
Media Center Raymond High School

Planning Board Members Present:
Brad Reed
Patricia Bridgeo
Scott Campbell (Selectmen ex officio)
Dee Luszcz
Kevin Woods
Jim McLeod (Alternate)(Seated)

Planning Board Members Absent:

Staff Present:
Glenn Coppelman - Circuit rider
Madeleine Dilonno -Circuit Rider Planner, RPC

Pledge of Allegiance

The first order of business was the election of officers.

Mr. K.Woods nominated Brad Reed as the Chairman.
Mr. Campbell nominated Patricia Bridgeo for Chairman.
Mr. Reed received 4 votes to be Chairman. Ms. Bridgeo received 1 vote.
Mr. Reed was elected to be the Chairman.

Mr. McLeod nominated Patricia Bridgeo to be Vice-Chairman.
Ms. Bridgeo received 5 votes to be the Vice-Chairman and was elected.

Mrs. Luszcz nominated Jim McLeod for Secretary who respectfully declined.
Mrs. Luszcz then nominated Kevin Woods who accepted the nomination.
The vote was unanimous with 6 votes for Kevin Woods to be Secretary.

Motion:
Ms. Bridgeo made a motion to have Jim McLeod be appointed for one year until 2023.

until the next election as a seated member. Mr. Campbell seconded the motion. The motion passed with a vote of 5 in favor, 1 abstention, and 0 opposed.

The first public hearing is for Eversource. Mr. Reed recused himself because Eversource is one of his company's biggest customers.

Mr. Terry Cooper introduced himself and explained that Eversource specifications call for the removal of brush and limbs which are located within 8 feet to the side 10 feet below or 15 feet above conductors, trees which present a threat to Eversource lines or other equipment because of decay, or another defect will be removed on a case-by-case basis. A list of risk trees identified for removal by Eversource has been included. All trees are marked with a blue and white checkered ribbon. All work will be performed in accordance with accepted Arbor Core standards. Eversource has contracted with Aspen tree experts to perform the actual clearing of trees. Eversource requires that our clearing contractor contact each landowner where trees are to be trimmed or removed prior to the commencement of work on that property. Individual concerns will be addressed at that time. All brush and limbs cut on roadsides. locations will be chipped. In wooded, undeveloped, locations these chips may be dispersed into the woods, taking care not to allow chips to accumulate in piles or ditches. We're also very careful with stone walls. We do not put chips on stone walls, we try to keep them clean. We're very aware that they're also monuments. Near developed land the chips will be blown into the truck and dispersed off site. The chips make good mulch and are often given to nearby property owners for landscaping purposes. If a central dumping location could be arranged with the town Eversource, would You have to make any unclean chip available to the town that don't cost, brush and limbs cut on inaccessible lines will be stacked to the side or the right of way and cut low to the ground. All wood will be left on site unless otherwise directed by the landowner. And again, that's on a case-by-case basis. In addition to this project of tree removal, and the project for trimming, we're also putting new poles up on Long Hill Road. And these two projects overlapped. Luckily, 90% of the trees that I tagged within those poles take care of that construction problem. So, we're killing two birds with one stone by simply removing the dead trees. We're also opening up for the new polls. And we don't have to go back again and re-cut trees. Mr. Cooper further explained that if there's a refusal if someone comes out saying you cannot cut my tree, they do not cut the tree.
Ms. Bridgeo asked if they leave the stumps?

Mr. Cooper responded, "We flush the stumps as low as we can."

Mrs. Luszcz asked if they have bird nests removed?

Mr. Cooper: “We're very careful of that. We try to be very careful with the nest if it's something we could relocate. You know if it's a situation where you like you have a Pileated Woodpecker, or something protected or something like that. We tried to deal either through the town or through the local government. We do work with the local towns when we run into that we will make some phone calls. Normally goes first to the road agent then he usually knows who's in the area to call about things like that.”

Mrs. Luszcz requested that the list of names is readily available to the crew. So, they have an immediate local person that can tend to any wildlife.

Mr. Cooper said that Bob Berner would need to be emailed and he would filter it down to him. He will give it to whatever contractors need to be notified.

Ms. Bridgeo said “ We would like Bob Berner to supply a list and to come to the tree? To have them have a rehab and relocate if any birds are found in and offspring need to be removed and relocated?

Public Comment:

Ms. Gott, speaking as a member of the public. “ I had the same question about the too close. Have the landowners where these trees are located? Have they been notified, especially the ones that are not clearly dead? For too close? But also, for any of them, have landowners been notified?”

Mr. Cooper: “Not officially. I don't officially notify them until the board gives me the okay.”

Ms. Gott also asked if the old poles would be coming down as part of this process?

Mr. Cooper responded: “ I just deal with the tree removals on that. I don't I don't deal with the technical end of it.”

Motion:

Mr. Woods made a motion to grant written permission to Eversource Energy under RSA 251:158 paragraph 2 entitled Effective Designation on Scenic Roads - to trim trees and brush for Eversource specifications as presented by Robert Berner, Eastern Region

Arborist for Eversource, on Long Hill Road. Eversource shall coordinate with the Raymond police department regarding traffic safety. Also, Eversource shall consult with abutting residents, as necessary. Condition of approval is that Eversource will haul wood chips away and not leave them on the side of the road and add the condition of approval that Robert Berner supplies a list to the actual company that will do the tree cutting and they will have the appropriate rehabbers. If any wildlife is found within the trees, they are removing they will contact and have them relocated. Mrs. Luszcz seconded the motion. The motion passed with a vote of 5 in favor, 0 opposed and 0 abstentions.

Application # 2021-024: A SITE PLAN application to include waivers is being submitted by Joseph Coronati of Jones & Beach Engineers, Inc. on behalf of Troy Brown of Loon Lake LLC. They are proposing to add a 1,408 S.F. addition to the back of the Trading Post building. The addition will primarily be used as cold storage/ warehouse space (879 S.F.) with 529 S.F. being a heated space. The heated space proposed will consist of workshop areas, an office, a breakroom for employees, a public restroom, and a utility room. Property located at 68 Mountain Road and Raymond Tax Map 46 / Lot 9.

Mr. Reed recused himself from this application because Mr. Brown is a friend of his.

Mrs. Luszcz read a statement: In regard to application number 2021-024, I wish to disclose that I have used the Legal Services of Patricia Panciocco in the past. But we are not engaged in any business together at this time. I have no direct personal or financial interest in the outcome of this application, and therefore can and will remain impartial.

Mr. Brown explained that Attorney Panciocco is no longer involved with the application.

Motion:
Mr. K. Woods made a motion to accept application 2021-024 a site plan application to include waivers. On behalf of Troy Brown. Mr. McLeod seconded the motion. The motion passed with 4 in favor, 1 abstention and 0 opposed.

Motion:
Ms. Bridgeo made a motion to have a site walk for this application. Mr. McLeod seconded the motion. The motion passed with 5 in favor, 0 abstentions and 0 opposed.

The Board discussed the date for the site walk and determined that May 5th at 5:00pm at 68 Mountain Road (the site) would be best.

Paige Libbey, with Jones and Beach Engineers, introduced herself, Troy Brown the owner and Monica Kieser the attorney for the applicant.

Paige Libbey explained the application details saying: “the proposal is to construct a slightly over 1400 square foot addition to the rear of the building. The addition will be used mostly for cold storage and warehousing, but a section of it will be finished and used as bathroom space, workshop space and some offices as well as a break room for employees. The addition is 44 feet by 31 feet dimensionalize. And it's entirely off the rear of the existing main retail building. It's entirely on top of existing gravel and paved area that's behind the building now and used for storage of materials and vehicles and things of that nature. There is quite a grade change across the site from front to back. So, the addition will have a walkout grade lower than the grade of the existing building. And we'll have an overhead door used for deliveries of work for materials that trucks will be able to come to the back of the building and have a loading area at the back there. So, we did meet with the TRC. On this application. One of the things that came up during that was a dry hydrant that's on the property used by the fire department. There's currently no easement for that in place, but it's been there for many years and the fire department has always known about it. So, one of the things we discussed with the TRC was that we would provide an easement for that dry hydrant. So, we do have that drafted and we'll be submitting it to check to the town for legal counsel to review. So overall, we feel this is an improvement to the site, we're providing bathrooms for the staff and as well as the public that's coming into the building as well as additional storage. So, he'll be able to bring some storage outside inside as well as have a larger stock of inventory on the property. So, this is one of the things that was discussed early on between Troy and the building department was this is a non-conforming use in the residential zone. So, because it's a commercial use, we have to comply with Section 2.2.3. I believe your ordinance requires that any expansion of a non-conforming use be only 25%. So, the existing total footprint of the buildings is a little over 5000 square feet and this proposal is less than the 25% of that square. pledge, we are requesting three waivers, as you noted, so the three waivers are for landscaping and screening, lighting,

as well as stormwater management. The reason for those waivers is mostly because we're pretty much providing the landscaping and vegetation that's required by your ordinance. So, we feel that we meet the intent of your ordinance because of the existing vegetation that's on the site, there's really no need to provide additional vegetation since it's surrounded on three sides by A wooded buffer. Same thing with lighting, because we're kind of a unique proposal because we're a commercial use in a residential zone. He does have some security lighting already on the building, but we don't feel that it would be respectful to neighbors to be providing extensive lighting on the site because of its location and the unique nature of the use. Lastly, the stormwater management. The intent of a stormwater management plan is really to compare the pre and post stormwater flows and where we're only putting an impervious surface on top of an existing impervious surface, there's no change to the stormwater management. So, there would be really no need to provide that type of calculation or any type of infrastructure to catch additional stormwater."

Mr. Mcleod inquired about a letter they received about the sprinkler systems rules. Mr. McLeod did not agree with the assessment. "I think the fire chief Paul Hammond has said that the intent is obvious. And it's also obvious to me that new commercial construction needs to be sprinkled. I understand that there's some discussion about the use that remains the same, that it's not a different use of the existing building. But you are. It is a new construction of an addition. And so, I think that as a minimum, the new addition would need to be sprinkled"

Paige Libbey explained with they had met with the TRC, and That Troy then met with the Fire Chief on site. What they ended up doing was submitting to the town attorney for an administrative decision on that language, because it was also unclear to them whether or not it applied. And that it is their understanding the town's attorney did decide that language does not apply in this case.

Mr. McLeod discussed a letter From Laura Spector Morgan, from Mitchell Municipal Group that says that both interpretations are possible. And that they recommend looking at NFPA 13. And following its guidance. NFPA 13 is actually about the systems itself, not whether a building needs to be sprinkled or not so that the guidance that they're saying isn't there, but they're saying that they're not agreeing with this interpretation. They're saying that that's a possible interpretation. Yeah. And the Fire Chief has said in this statement, that the intent is obvious.

Attorney Monica Keiser of Hoefle,Phoenix,Gormley, and Roberts, explained she had written the initial letter and looking at attorney specter Morgan's response. It looks like she says she recommends looking at NFPA and following its guidance, but then she says I did find this online, which she thought might come from NFPA, which says that the sprinkler systems must be installed and new commercial buildings with an area exceeding 5000 square feet after any law I'm so I'm not sure that that would apply there. But my understanding was after the fire chief saw this information, came out, visited the site, and spoke with Troy. He agreed that it wasn't necessary.

Paige Libby added: “I think Troy met with the fire chief prior to that coming out and they discussed it. And he was the Fire Chief who was open to whatever the town attorney was to decide. I do know that NFPA would not require this building to be sprinklered. So, the town's ordinance is stricter than NFPA. So, if the town attorney is recommending going by NFPA would not apply. And because NFPA requires sprinklers for certain, certain types of storage that are flammable. So, this type of storage that he's proposing is a low risk.”

Monica Keiser suggested that the appropriate sheet should be copied and submitted. And then maybe they need to re-address that with the fire department.

Ms. Bridgeo read a letter from the previous owner; “*One of the changes when they applied the responses. The zoning ordinance requires your proposed cold storage building to be fully sprinkler protected. We have had several cold storage buildings constructed without sprinklers, but only after they had received a variance from the Zoning Board of adjustments. And after the recommendation from the necessity from the Fire Chief, should you seek to not provide full sprinkler protection in the proposed cold storage building, you should consider approaching at the time it was Fire Chief Pratt, Kevin Pratt, her recommendation in regards to not needing the sprinklers he has supported not having sprinklers in cold storage buildings a number of times in the past, I am sure he could advise you of which buildings and for what reasons he has taken this position.* The cold storage building that is heated is almost to have heating and cold storage, I would say would go against cold storage and to be doing manufacturing or repairs or I don't know what actually would be that would negate the word cold storage because you weren't going to be heating that portion of the building. So, I don't think part of the building would be cold storage because it's heated?”

Monica Keiser: “We have not been directed to get a variance. We provided our

interpretation. We have gotten a response back that we believe was favorable to us but at best is unclear. So that's why we haven't gone to get one. That's what I'm saying. So maybe we revisit that with the Town Council. We provide the NFPA information to get that resolved."

Troy Brown: "The fire chief in the same email thread that we received He did comment. He says Christina, unfortunately for me, that I had not visited our town ordinance verbiage for some years, and I was not aware it had morphed into such a convoluted description of a simple sprinkler ordinance. The original ordinance simply stated all new construction of commercial industrial buildings as well as multifamily buildings with three or more units. So, we've switched to NFPA 13 standards, I'm paraphrasing, but the intent is obvious. Currently, the verbiage as depicted does not appear to be concise as a code enforcement would refer to a 14 leverage in this application. So, I read that as he's acknowledging that language is unfortunately clear."

Maddie DiIonno said the ordinance reads *8.3.3 As allowed by RSA 674:52-I pursuant to RSA 674:51 and that all commercial (to include multi-family housing) and industrial uses newly constructed shall be fully sprinkler protected in compliance with NFPA 13 (the standard for the installation of sprinkler systems) design criteria.*

Mr. Campbell asked if they were a commercial building and expressed that he did not see any gray area in here. That it's pretty cut and dry. It's a commercial building for commercial use.

Ms. Bridgeo read a letter from Mr. Richard Mailhot to Mr. Beaumont, September 16 2004. *The purpose of this letter is to answer the questions regarding the issuance of a permit for a 28 by 36, 1008 square foot storage building. Let's start by stating that your business the Mountain Road Trading Post, 68 Mountain Road is located in Zone B and as such is considered a pre-existing non-conforming use and reviewing the Raymond zoning ordinance, Article 4 use non- conforming section 4. 8.3 limits expansion of any non-conforming use to a maximum of 25%. The town tax records for your existing building indicate it is 4800 square feet in size, which would allow a maximum expansion of 1200 square feet. Additionally, I reviewed the site plan regulations, Article four, section 1.1.2.7, in short, and it describes the conditions under which a site plan review is required for your proposal for the construction of a new nonresidential use. occasioned development of the site will require you to apply and receive site plan review.* And then it goes on in it he lists more. So, there are in the records from the prior when they also

have been in there are documents listing the size of the building. Now when we pull up the building the proposed and the first thing, I see is the existing building is 60 by 27. And its proposed new expansion is 44 by 27.

Monica Keiser said “This was vetted by code enforcement back in November before we applied in December initially. And they told Troy that the expansion was less than 25%. And a variance would not be needed.”

Further discussion revealed that there may have been an old condition that there be no more expansion. Monica Keiser asked that a copy of that old condition be emailed to her.

Ms. Bridgeo: “I personally would like to address the lighting, dark sky as a commercial building that is located near a state park. I think that the lighting and keeping a dark sky is critical to that type of neighborhood. The State Park being nearby, and I think that dark sky criteria, especially having Tuckaway down the street which is where people are going to be using kayaks, canoes and other would be imperative to have our dark sky kept dark sky.”

Paige Libbey explained that they would not be installing any new lighting.

Ms. Bridgeo then asked about the sign. Paige Libbey said they would be moving the sign but not changing the size of the sign.

Motion:
Ms. Bridgeo made a motion to open to Public Comment. Mr. Mcleod seconded the motion. The motion passed with 5 in favor, 0 opposed and 0 abstentions.

Public Comment:

Alex Dostie, 70 Mountain Road, said: “My property line abuts right up directly to all the structures that are there. And I'm just here to general support of being behind all these structures. I appreciate those low light variants. In general, there's no real issue I have on my end of the buildings where they are able to be visible by point of my property.”

Ms. Gott, speaking as a citizen, reminded everyone that site walks are open to the Public and asked for the date of the site walk.

Ms. Bridgeo said that the date for the site walk is May 5th at 5:00 pm at 68 Mountain Road.

Motion:
Ms. Bridgeo made a motion to close Public Comment. Mrs. Luszcz seconded the motion. The motion passed with a vote of 5 in favor, 0 opposed and 0 abstentions.

Motion:
Mr. McLeod made a motion to continue the application until May 5, 2022 at 7:00pm at Raymond High School Media Center. Mrs. Luszcz seconded the motion. The motion passed with a vote of 5 in favor, 0 opposed and 0 abstentions.

Approval of Minutes:

Motion:
Mr. Reed made a motion to table the March 23, 2022 minutes until the next meeting. Mr. McLeod seconded the motion. The motion passed with a vote of 5 in favor, 0 opposed and 0 abstentions.

Motion:
Ms. Bridgeo made a motion to accept the April 7, 2022 minutes as amended. Mrs. Luszcz seconded the motion. The motion passed with a vote of 4 in favor, 0 opposed and 2 abstentions.

Mr. K. Woods volunteered to sit on the Cemetery Advisory Board.

Kera Clements explained that there are 4-member at large positions in the charter. We have three members. We have been meeting, we've walked through the couple of the cemeteries, we've looked at the maps we've kind of been trying to get organized but really didn't have a well-established and then all kinds of shifting happened. And so, we've kind of just been sitting alongside waiting for things to kind of get in a good place. So now we do have an objective we need to make some decisions on. We had been meeting the last Sunday of every month. So, we'd like to continue to do that this Sunday. We'll just be meeting at the Long Branch. So, Kevin, if you're available at 9am, to meet with us. We were established, I think, last summer. But with all of the changes in

administration, the charter really wasn't released. I think Kevin actually may have found it and has put together our website and, you know, called attention to the fact that we still were pending those members, which we were aware of, we just didn't have a cemetery Sexton assigned. So, we really had no directive.

Motion:
Ms. Bridgeo made a motion that the Board accept Kevin Woods as the representative to the Cemetery Advisory Board. Mr. Mcleod seconded the motion. The motion passed with 6 in favor, 0 opposed and 0 abstentions.

Mr. Reed asked for two people to sit on the Capitol Improvement Committee.

Mr. K. Woods: “I have a particular interest in the CIP. This is another subcommittee that I wish to participate in. Its membership is down; actually, two members with Mr. Di Tomasso is gone. And one other member is no longer an elected official either. My concern is, as Brad mentioned, that, ultimately, the town has adopted the capital improvements committee formula. But the Planning Board still has its fingers in the capital improvements plan, the CIP plan. Unfortunately, the only thing that that committee has done in the last three years, is basically take CRF recommendations and agree with them. If you do some research around the Seacoast, you will find we're the only town without a written capital improvements plan, a written and posted capital improvements plan. And that would be high on my list of goals to accomplish. This year with the CIP it's much more than just rubber stamping. capital reserve fund requests, it really is the basis for a lot of things, including impact fees. If you really can't charge impact fees for just things like road maintenance, you actually have to have an improvement, that those impact fees are going to be addressed to. And I think that's crucial, because we've talked a lot, or this board has talked, and a lot of people have talked about impact fees. The school has them. The town dropped them because exactly that reason. It was not an improvement plan to put those impact fees to I think that's important to the town.”

Ms. Gott: “I believe there has been a plan maybe with COVID things dropped, there was an active plan. The reason that the town that the Planning Board dropped impact fees and I'm speaking just historically, there was not a rational nexus, if you will, for having impact fees for certain areas, we did have some offsite improvements. And that was for specific roads. But even that was difficult to carry out. Because you had to prove that that road, use, deterioration, whatever was specific to that project. That was very, very

difficult to prove. So, we were advised by the guru of impact fees, not to do that. My suggestion would be that it would be a good idea to schedule a session with Bruce Mayberry to learn about impact fees, rather than just reading it on, Let's have Bruce, come back, and talk to us about what we can and can't do. Because I know, the Selectmen are very interested in having impact fees, but there are just lots of little hoops and jumps and things that you need to do."

Mr. Reed cautioned the Board that before we start asking other additional consultants and lawyers and that kind of thing to consider the cost because the budget was cut this year significantly.

Ms. Gott said that it is extremely important for CIP committee members, and for planning board members and any members of the public to do the tours, set up the tours of the different places.

Mr. Coppelman explained that the CIP plan is specifically a 6-year plan per statute.

Motion:
Ms. Bridgeo made a motion to accept Kevin Woods for a position on the CIP Committee. Mr. Reed seconded the motion. The motion passed with 5 in favor,0 opposed, and 1 abstention.

Motion:
Ms. Bridgeo made a motion to accept Dee Luszcz for a position on the CIP Committee. Mr. Campbell seconded the motion. The motion passed with 5 in favor, 0 opposed, and 1 abstention.

Mr. Reed said that the one other item here is a zoning board position.

Keith Smith: "In looking at the history of the planning board, appointing recommending it all started. In the minutes, I went back to 2014 to try and figure out where this started because I'd never remembered it historically happening. In 2008 Stephen Fehr was a member of the zoning board; he was elected to the planning board. Whenever a case came up on the two, he would step down, Stephen resigned and moved to Florida. When he resigned to move to Florida that put the zba in a bit of a bind. They didn't have

a quorum for three months. So, in an emergency appointment was made of Alyssa Welch by the board of selectmen from the planning board for a one-year appointment. She served the one year and then after that, it came up again. And Mr. Wentworth had nominated Brad for the position after one year. The first one was an emergency situation because they couldn't get a quorum so long. So, it said the Selectmen had said one year it's all in the minutes, and then it popped up again. So, they nominated, and Brad was appointed to the zba. Now, these were only supposed to be one-year appointments, which is usually like a board of selectmen sitting on another board or a board member sitting on another board. That was in 2020. In 2021, no action was taken. That just continued on that one year has now become two years there was nothing at all, when the new board came in and 2021 for an appointment and or nomination to the zba. So that's what I found from all the minutes. And then I found this a little disturbing on April 7. Prior to my meeting with you people, the website said Brad Reed planning board representative on April 9th, and I have a screenshot of it on my computer with the timestamp on April 9. It changed after I met with you people. And it said the member planning board representative that had been on there for years after my discussion was removed. And other things have been changing. So, I don't know where you're going to go with moving forward with this. But I do know what caused this position in the first place. I have all the minutes. The much-eradicated minutes, but it specifically says the resignation of Stephen Fehr, the emergency appointment of Alyssa Welsh and then Mr. Wentworth's nomination for Brad when her term was done, but the emergency was over."

Kevin Woods: "My opinion is I don't think we need a legal opinion. The RSA is extremely clear. Zoning Board members, when they are appointed, are appointed by the Board of Selectmen. They can appoint somebody from the high school, they can appoint whoever they want. It's in their jurisdiction. If the Board of Selectmen decide they would like to have a Planning Board Member on the Zoning Board. Land Use Board Regulations allow that to happen. But it's irrelevant what we want when really, RSA is so clear. They are appointed by the Board of Selectmen. And they can appoint who they wish."

Ms. Bridgeo: " I think that as people who are sitting here trying to serve this community to the best of our abilities, I think that having those us separate from the Zoning Board is probably for all of us is in the best interest of the town. And if this we hit an emergency situation, and we need to be before the Selectmen, for that type of situation. But I think as far as keeping our Land Use Board separate, and if they are not in an emergency situation, then I don't think that the Planning Board should be having an I'm going to call

it double dipping sitting on the Planning Board and the Zoning Board. I think that it is in the best interest if they are full, and they don't need members, and it's not an emergency. I think it's in the best interest that we separate."

Mr. Coppelman: "The statute is also very clear that there's no provision for the planning board to appoint or recommend appointment of one of their members to the ZBA. If a planning board member, on their own, wishes to serve on the ZBA, they can approach the board of selectmen and asked to be appointed, and it's in the Select Board's hands then to make that appointment."

Mr. Reed said, "I have resigned officially because of the whole tie and everything."" What I told them was that as soon as the town elections were done, that we were going to make a new recommendation to the board of selectmen because that's what we had been doing. And Keith came and very clearly pointed out to us that what we had been doing wasn't exactly correct. So, this is all in limbo. In my term, as far as I'm concerned, my term actually expired last year." "We have chosen not to send a recommendation of the Board of Selectmen that the appointments to the ZBA are totally under the purview of the Board of Selectmen. So, we are not involved with that."

Motion:
Mr. Reed made a motion that the Planning Board recognizes that people who serve on the ZBA are not within the purview of the Planning Board, and we will not make recommendations to the Select Board unless specifically asked for a volunteer from our group. Ms. Bridgeo seconded the motion. The motion passed with a vote of 6 in favor, 0 opposed and 0 abstentions.

Ms. Gott asked Mr. Reed if he was going to go to the Board of Selectmen and ask to be a Planning Board representative. Mr. Reed said he would not unless specifically asked by the Board of Selectmen.

May 12, 2022 at 7 pm in the Media Center at the High School is a work session for the Planning Board. They will discuss procedures and MS4.

Motion:
Ms. Bridgeo made a motion to adjourn. Mr. Campbell seconded the motion. The motion passed with a vote of 6 in favor, 0 opposed and 0 abstentions.

Meeting adjourned at approximately 9:27pm.

Respectfully submitted,

Jill A. Vadeboncoeur