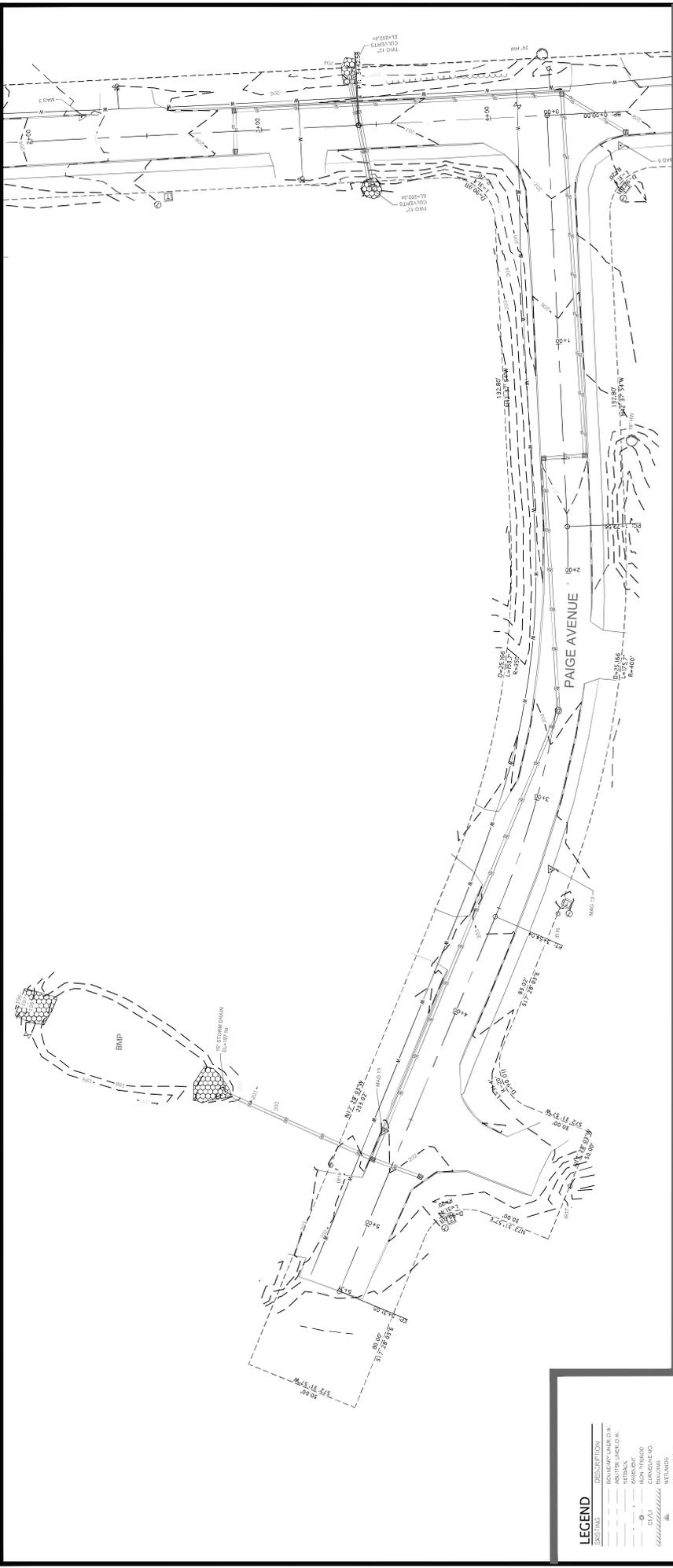
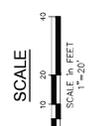


As-built Plans, Testing and Inspection Reports, Permits and Approvals



PAIGE AVENUE, STATIONS 0+00 TO 5+31

SYMBOL	DESCRIPTION
(Symbol)	EXISTING
(Symbol)	PROPOSED
(Symbol)	CONCRETE
(Symbol)	PAVEMENT
(Symbol)	GRASS
(Symbol)	WOOD
(Symbol)	ROCK
(Symbol)	IRON
(Symbol)	STEEL
(Symbol)	COPPER
(Symbol)	BRASS
(Symbol)	ALUMINUM
(Symbol)	GLASS
(Symbol)	PLASTIC
(Symbol)	OTHER



Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.866.9050

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
FILE NAME: [Text]
SHEET: C-101

VILLAGE AT POND VIEW WOODS
PAIGE AVENUE
AS-BUILT PLAN

VILLAGE AT POND VIEW WOODS, LLC
C/O NORMAN, MANNION & DETROY
2 CANAL PLAZA, PORTLAND, MAINE

REV	DATE	DESCRIPTION	BY

NOTE:
APPROXIMATE WATER LINE LOCATION PER SITE PLANS
BY DHPM DATED 12/20/06, P.014.



ORCHARD ESTATES
OLD ORCHARD BEACH, MAINE
SHAW BROTHERS CONSTRUCTION
RWG&A PROJECT NO. 0637-023

Report Issue Date: Friday, November 20, 2015

Checked By: Matthew T. Grady, 11/20/2015

Test No.	Test Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Sample Lab No.	Max Dry Density (pcf)	Opt Moisture (%)	Percent of Max (%)	Date	Technician	Gauge #
1	Paige Ave - Sta 2+00, Centerline, FGSB;		130.6	6.2	13839	132.4	7.5	99	11/13/2015	George Morrell	L-244
2	Paige Ave - Sta 1+00, Centerline, FGSB;		129.8	5.3	13839	132.4	7.5	98	11/13/2015	George Morrell	L-244
3	Paige Ave - Sta 0+00, 5' Rt, FGSB;		131.7	6.4	13839	132.4	7.5	99	11/13/2015	George Morrell	L-244
4	Casey Lane - Sta 4+00, 10' Lt, FGSB;		128.9	6.6	13839	132.4	7.5	97	11/13/2015	George Morrell	L-244
5	Casey Lane - Sta 5+00, Centerline, FGSB;		132.4	7.0	13839	132.4	7.5	100	11/13/2015	George Morrell	L-244
6	Casey Lane - Sta 6+00, 10' Rt, FGSB;		132.0	6.7	13839	132.4	7.5	100	11/13/2015	George Morrell	L-244
7	Casey Lane - Sta 3+00, Centerline, FGSB;		129.5	5.3	13839	132.4	7.5	98	11/13/2015	George Morrell	L-244
8	Casey Lane - Sta 2+00, Centerline, FGSB;		130.2	5.5	13839	132.4	7.5	98	11/13/2015	George Morrell	L-244
9	Casey Lane - Sta 1+00, 5' Rt, FGSB;		130.5	6.0	13839	132.4	7.5	99	11/13/2015	George Morrell	L-244

Remarks:

1: Tests were on sample 13839 Type D Subbase and require 95% of ASTM D1557 maximum density.

FG = Finish Grade
 FF = Finish Floor
 FGB = Finish Grade of Base
 FGSB = Finish Grade of Subbase
 FGSG = Finish Grade of Subgrade

TOW=Top of Foundation Wall
 BOF=Bottom of Footing
 TOC = Top Curb

R. W. Gillespie Associates, Inc.
 Corporate Office 86 Industrial Park Road, Ste 4, Saco, ME 04072
 Branch Office 200 International Drive, Ste 170, Portsmouth, NH 03801

Filter Criteria: Project ID = 0637-023; Start Date = 11/13/2015; End Date = 11/13/2015 11:59:59 PM;

3rd PARTY INSPECTION FIELD REPORT

Project	Village at Pond View Woods (a.k.a. Orchard Estates Phase II)		
Contract No.	WP 12755B	Date:	10/25/2021
Job Location	Off Portland Ave.		
Owner	Peter Bouchard (peter@mobile.us)		
Design Engineer	BH2M (Contact: Steven Blake 207-839-2771)		
Contractor:	Eastern Excavation, Inc. (Contact: Robert Plummer III (207-774-7545))		
Weather:	Sunny	Temperature	60 °F
Time On-Site	8:30 AM	Time Leaving Site	9:30 AM
Requested Inspection	Type D Gravel Test Pits		
Area of Work	Phase II – Bouchard Court		
ESC Inspection Completed:	No		

Inspection Visitors/Personnel On-site:

- Jaime Wallace – Wright-Pierce
- Robbie Plummer IV – Eastern Excavation, Inc.

Summary of Construction Activities/Comments/Observations:

- Wright-Pierce was contacted to complete test pit observations for Phase II of Orchard Estates.
- Upon arrival to the project site, the contractor had 4 test pits dug randomly throughout the project site. The following locations were observed to have at least 18” of Type D gravel installed:
 - Approx. Sta. 8+25 (Casey Lane)
 - Approx. Sta. 0+50 (Bouchard Court)
 - Approx. Sta. 4+00 (Bouchard Court)
 - Approx. Sta. 11+25 (Casey Lane)
- Wright-Pierce has requested compaction testing results and gradation results for Type D gravel installation. Wright-Pierce takes no exception to thickness of Type D gravel installation.

Documents Submitted/Reviewed On-Site/Discussed:

- None at this time.

Actions Required:

- Submit copy of post-construction management plan with signed maintenance agreement.
- Notify Wright-Pierce of Type A gravel installation as well as paving schedule.

Action Follow-Up (Actions Noted during Previous Inspections):

Action/Deficiency Summary (Observed during previous inspection)	Date Observed	Resolved (Yes/No)	Re-inspection Date(s)	Comments/Corrective Actions taken and/or Additional Observations
Submit copy of post-construction management plan with signed maintenance agreement	2/26/2021	No	3/19/2021	

Document Tracking:

Date Documents Submitted	Reference Documents	Notes/Revisions
Pre-Construction Documents		
2/25/2021	Primary Contact for Project Communication	2/25/2021: COMPLETE
2/25/2021	Contact Information for Construction Team	2/25/2021: COMPLETE
2/25/2021	Construction Schedule	Discussed During Pre-Construction Meeting
4/28/2015	PDF of Site/Subdivision Plans and Details – <i>Issued for Construction</i>	4/28/2015: COMPLETE
2/24/2021	Performance Guarantee and Escrow	2/24/2021: COMPLETE
	Copy of Erosion and Sedimentation Control Plan <i>(A copy should be on-site at all times along with contractor logs)</i>	
	Copy of Approved Permits and Order of Conditions	
	Copy of the Post-Construction Management Plan, Signed Maintenance Agreement and List of Post- Construction BMPs in accordance with Ch 71 Requirements	
Construction Documents		
3/19/2021	Clearing and Grubbing	No exceptions taken
3/19/2021	Erosion and Sedimentation Control	No exceptions taken. Inspections to continue throughout duration of project.
Not Applicable	Wastewater Collection System (Sewer) Installation	Not Applicable. Individual septic systems.
Not Applicable	Wastewater Collection System (Sewer) Testing	Not Applicable. Individual septic systems.
Not Applicable	CCTV Inspection of Sewer Infrastructure	Not Applicable. Individual septic systems.
3/19/2021	Storm Drain Installation (Infrastructure)	No exceptions taken on sections that were visible during inspection. It is recommended that CCTV be performed on storm drain lines in accordance with OOB Infrastructure Inspection Procedures. Wright-Pierce to verify drainage at tie into Phase I. 3/25/2021: No exceptions taken.
3/19/2021	Storm Drain Installation (graded)	No exceptions taken on sections that were visible during inspection. It is recommended that CCTV be performed on storm drain lines in accordance with OOB Infrastructure Inspection Procedures. Wright-Pierce to verify drainage at tie into Phase I. 3/25/2021: No exceptions taken.
	CCTV Inspection of Storm Drain Infrastructure	
10/25/2021	Stormwater BMPs (inspection by EOR Anticipated)	10/25/2021: COMPLETE
10/22/2021	Site Subgrade	10/22/2021: Test Pits COMPLETE
10/22/2021	Aggregate Base Material	10/22/2021: Test Pits COMPLETE
	Aggregate Subbase Material	
	Pavement: Binder	
	Pavement: Surface	
	Loam and Seed/Landscaping	
	Substantial Completion	
	Final Completion	
Construction Documents		
	Erosion and Sedimentation Control Logs	
	ESC, Site Inspections and Field Reports by Engineer-of-Record or Developers Inspection Engineer	
10/25/2021	Stormwater BMP Certification by Engineer-of-Record	10/25/2021: COMPLETE
	Roadway: Aggregate Gradation Results	

	Roadway: Compaction Testing Results	
	Roadway: Pavement Mix Design	
	Roadway: Weight-slips	
	Water Main Acceptance Letter from MaineWater	
Not Applicable	Sewer testing results	Not Applicable. Individual septic systems.

Signed By: Jaime Wallace

Name Jaime Wallace, PE Title Lead Project Engineer

Copy To:

Jeffrey Hinderliter, Town Planner, jhinderliter@oobmaine.com

Michael Foster, Associate Planner, mfoster@oobmaine.com

Joe Cooper, Director of Public Works, jcooper@oobmaine.com

Stephanie Hubbard, Wright-Pierce, stephanie.hubbard@wright-pierce.com

Jaime Wallace, Wright-Pierce, Jaime.wallace@wright-pierce.com

Peter Bouchard, Peter@mobile.us

Andrew Peterson, Modular Sales, Modularsales@aol.com

Robbie Plummer III, Eastern Excavation, Inc., rplummer@easternexcavationinc.com

Photos:



Photo 1: Test Pit near Sta. 8+25 (Photo Taken by Jaime Wallace, PE Dated 10/22/2021)



Photo 2: Test Pit Near Sta. 0+50 (Photo Taken by Jaime Wallace, PE Dated 10/22/2021)



Photo 3: Test Pit Near Sta. 4+00 (Photo Taken by Jaime Wallace, PE Dated 10/22/2021)



Photo 4: Test Pit Near Sta. 11+25 (Photo Taken by Jaime Wallace, PE Dated 10/22/2021)

Friday February 22, 2019

Jeffrey Hinderliter, Town Planner
Planning Department
Town of Old Orchard Beach
1 Portland Avenue
Old Orchard Beach, Maine 04064
Via email to: jhinderliter@oobmaine.com

RE: Village at Pond View, BMP Construction Certification

Dear Jeffrey,

On behalf of our client, Village at Pond View Woods, LLC, and in response to recent correspondence, we are pleased to inform you that we have been performing Town of Old Orchard Beach Chapter 71 Post Construction Stormwater Management inspections since the Spring of 2017, which included inspection of the following stormwater best management practices (SW BMPs):

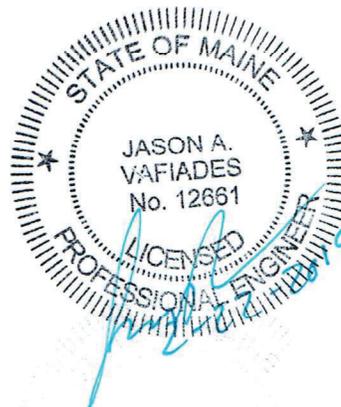
- Underdrained soil filter A – station right off Paige Avenue
- Level Lip Spreader and Buffer – rear of lots 22-25.

Both facilities were constructed according to the design plans entitled “Soil Filter Details, Orchard Estates, dated December, 2014, revision 7, Revised per DEP comments”, as prepared by BH2M Engineers & Surveyors.

Both SW BMPs are also currently functioning per the intended design.

Please do not hesitate to contact us if you have any questions regarding the attached information.

Warm Regards,



Atlantic Resource Consultants
Jason Vafiades, PE, LEED AP
Principal

Cc: Paul Driscoll, Norman, Hanson & Detroy, LLC
Village at Pond View Woods, LLC (Peter Bouchard & Deron Barton)



The Village At Pond View Woods, LLC



THE VILLAGE AT
Pond View Woods

Water Main Extension Package

***The Maine Water Company
93 Industrial Park Rd
Saco, Maine 04072
1-800-287-1643***

CERTIFICATE OF PROJECT ACCEPTANCE

The Village At Pond View Woods, LLC

KNOW ALL MEN BY THESE PRESENTS, that The Maine Water Company, having inspected the installation of the water mains and services as specified for the project, and having received certification verifying satisfactory results with regards to testing of the said installation, finds that it substantially complies with the terms of the Agreement between the Company and the Contractor/Developer dated as of

the 16th day of January in the year 2023,

This date shall mark the commencement of all warranties and guarantees required by the Agreement and General Conditions Specifications, and such warranties and guarantees shall be fully effective, notwithstanding the fact that the Company has inspected such property.

IN WITNESS WHEREOF, the parties hereto have caused the Certificate of Project Acceptance to be executed by their duly authorized officials.

(PRINT/SIGN)

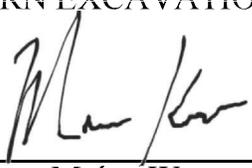
Witness _____

Developer
PETER BOUCHARD

Witness _____

Contractor
EASTERN EXCAVATION LLC

Witness _____



Maine Water
MARCUS KNIPP
ENGINEER



OLD ORCHARD BEACH PLANNING BOARD FINDINGS OF FACT

SUBDIVISION APPROVAL : ORCHARD ESTATES

PROPOSAL: 32 LOT SINGLE-FAMILY RESIDENTIAL CLUSTER SUBDIVISION

Project Description:

32-lot single-family residential cluster subdivision including 2,600 linear feet of roads, underground utilities, stormwater management, public water, individual septic systems, open space, and vegetative buffers. Location: 202 Portland Ave., MBL: 103-1-32 and 103-1-45. Owner: Diversacorp LLC, Agent: BH2M.

Planning Board Review:

WHEREAS the Applicants submitted a Subdivision Sketch Plan to the Planning Department during September 2014.

WHEREAS on 10/9/2014, the Planning Board reviewed the Sketch Plan and scheduled a Site Walk to be held on 11/6/2014 and a Public Hearing to be held on 11/13/2014.

WHEREAS the Planning Board held a Site Walk on 11/6/2014.

WHEREAS the Planning Board held a Public Hearing on 11/13/2014 and continued discussion of the proposal

WHEREAS the Applicants submitted a Subdivision Preliminary Plan Application and Plans to the Planning Department on 12/29/2014.

WHEREAS on 1/8/2015, the Planning Board reviewed the Subdivision Preliminary Application and Plans and scheduled a Site Walk to be held on 2/5/2015 and a Public Hearing to be held on 2/12/2015.

WHEREAS the Applicants submitted a Revised Subdivision Preliminary Plan Application and Plans to the Planning Department on 1/26/2015.

WHEREAS the Planning Board conducted a Site Walk on 2/5/2015.

WHEREAS the Planning Board held a Public Hearing on 2/12/2015.

WHEREAS the Planning Board reviewed Preliminary Plan Application and Plans and determined the application complete on 2/12/2015 and tabled Final Plan review.

WHEREAS the Applicants submitted Subdivision Final Plans to the Planning Department on 2/27/2015.

WHEREAS the Planning Board conducted a Final Plan review, including waiver requests, and granted Final Subdivision approval with conditions on 3/12/2015. Vote: 4-0-0.

WHEREAS the Applicants submitted revised Final Plans for Planning Board Signatures on 3/30/2015.

WHEREAS the Planning Board tabled Final Plan Mylar signatures and Findings of Fact signatures on 4/9/2015.

WHEREAS the Planning Board signed the Final Plan Mylar and Findings of Fact on 4/22/2015.

Referenced Plans and Documents: The plans and other documents considered to be part of the record by the Planning Board ruling consist of:

Exhibit A: BH2M, Proposed Subdivision Plan Portland Ave., dated September 2014; 1 Sheet.

Exhibit B: BH2M, Sketch Plan Orchard Estates Cluster Subdivision, dated September 2014; 1 Sheet.

Exhibit C: BH2M, Residential Subdivision Portland Ave. and Orchard Estates Cluster Subdivision Sketch Plan, cover letter dated 9/16/2014; 2 pgs.

Exhibit D: BH2M, 32 lot concept plan, dated 11.6.2014; 1 pg.

- Exhibit E:** BH2M, Preliminary Plan Orchard Estates, dated 12/29/2014; Plan Sheets 1 – 9, A & B.
- Exhibit F:** BH2M, Revised Preliminary Plan Orchard Estates, dated 1/26/2015; Plan sheets 1 – 10, A & B.
- Exhibit G:** BH2M, Final Plan Orchard Estates, dated 2/27/2015; Plan Sheets 1 – 10.
- Exhibit H:** BH2M, Revised Final Plan Orchard Estates, dated 3/30/2015; Plan Sheets 1 – 10.
- Exhibit I:** BH2M, Orchard Estates Subdivision Final Plan Letter, dated 4/1/2015; 1 pg.
- Exhibit J:** Letter from Mark Hampton Associates Inc. regarding Comparison of Individual Septic Systems vs. Common Treatment System, dated 2/28/2015; 2 pgs.
- Exhibit K:** BH2M, Various documents including revised Major Subdivision Application; Revised narrative to Ch. 74, Art. I, Sec. 74-2 (Subdivision Review Criteria); Revised Waiver Requests; Lot layout example, with cover letter dated 2/26/2015; 9 pgs.
- Exhibit L:** BH2M, Cover sheet and revised (abbreviated) Stormwater Management Report for Orchard Estates, dated 1/26/2015; 16 pgs.
- Exhibit N:** BH2M, Full Stormwater Management Report for Orchard Estates, revised date 1.23.2015; 91 pgs.
- Exhibit O:** BH2M, Submission of various documents including: Subdivision Application, Waiver Requests, Home Ownership Association, Deed & Right, Title Interest, Wetland Delineation letters, Soil Test Pit Logs, Letters to Town Department Heads and Maine Water, FEMA Flood Map, Stormwater Report, with cover letter dated 12/22/2014; 82 pgs.
- Exhibit P:** BH2M, Orchard Estates Natural Resource Protection Act Permit Application for Maine Department of Environmental Protection, cover letter dated 3/13/2015.
- Exhibit Q:** BH2M, Orchard Estates Stormwater Management Law Permit Application for Maine Department of Environmental Protection, cover letter dated 3/13/2015.
- Exhibit R:** Email from Planning Board Vice Chairman Mark Koenigs regarding Orchard Estates – Portland Ave., dated 2/19/2015; 3 pgs.
- Exhibit S:** Email from Planner Jeffrey Hinderliter to William Thompson regarding Orchard Estates Concept Plans, dated 10/28/2014, 5 pgs.
- Exhibit T:** Email from Old Orchard Beach Fire Department Chief Rick Plummer regarding the addition of one fire hydrant on Vista Bella Ave., opposite Honey Gold Ave., dated 4/16/2015, 1 pg.
- Exhibit U:** Email from Jonny Hall regarding P.E. Steve Blake rationale for road grade waiver, date 2/5/2015; 1 pg.
- Exhibit V:** Handwritten notes by Planner Jeffrey Hinderliter regarding Orchard Estates, dated 2/4/2015; 2 pgs.
- Exhibit W:** Original Orchard Estates narrative to Ch. 74, Art. I, Sec. 74-2 (Subdivision Review Criteria), no date; 1 pg.
- Exhibit X:** Revised Orchard Estates narrative to Ch. 74, Art. I, Sec. 74-2 (Subdivision Review Criteria), no date; 2 pgs.
- Exhibit Y:** Hand drawn map and email from Dan Blaney regarding Milliken House History and map showing spring house, cellar hole and Milliken House, various dates, 2 pgs.
- Exhibit Z:** Abutter letter from Thomas Schaafsma for 11/13/2014 public hearing, no date; 1 pg.
- Exhibit AA:** Abutter letter from Lora Schaafsma regarding Cluster Subdivision for single-family homes, dated 11/13/2014; 2 pgs.
- Exhibit BB:** Email from Police Chief Dana Kelley regarding Orchard Estates, dated 4/21/2015; 1 pg.
- Exhibit CC:** Email from Public Works Director Bill Robertson regarding Orchard Estates, dated 1/28/2015; 1 pg.
- Exhibit DD:** Email from Walter Pelkey, BH2M, regarding sending electronic files to the Town's GIS Consultant, Tom Burns, dated 4/7/2015; 1 pg.

Exhibit EE: Letter from Maine Water Company, Thomas Carr II, regarding Maine Waters ability to serve the Orchard Estates Project, dated 1/8/2015; 1 pg.

NOW THEREFORE, pursuant to the Old Orchard Beach Zoning Ordinance, the Planning Board, in due consideration of this application, has determined the following facts, per *Sec. 74-2 Subdivision Review Purpose:*

To ensure the comfort, convenience, safety, health and welfare of the people; to protect the environment; and to promote the development of an economically sound and stable community. To this end, in approving subdivisions within the town, the planning board shall consider the following criteria and before granting approval shall determine the following:

(1) The proposed subdivision will not result in undue water or air pollution. In making this determination it shall at least consider the following:

a. The elevation of the land above sea level and its relation to the floodplains;

Development is generally 15 to 30 feet above the 100 year flood zone.

b. The nature of soils and subsoils and their ability to adequately support waste disposal;

Soil Tests for individual subsurface disposal systems indicate sandy soils with 15” to 16” to mottling.

c. The slope of the land and its effect on effluents;

All area proposed for subsurface disposal systems are on slopes from 3 to 8 percent.

d. The applicable state and local health and water resources regulations;

Public Utilities will conform to all local and State regulations.

(2) The proposed subdivision has sufficient water available for the reasonably foreseeable needs of the subdivision;

Public water is available for this site. The Agent secured a letter stating “ability to serve” from Maine Water.

(3) The proposed subdivision will not cause an unreasonable burden on an existing water supply, if one is to be utilized;

There will be no unreasonable burden on the existing public water supply.

(4) The proposed subdivision will not cause unreasonable soil erosion or reduction in the capacity of the land to hold water so that a dangerous or unhealthy condition may result;

All construction will be per Maine DEP Best Management Practices. This includes all measures to stabilize this site and minimize erosion and its capacity to manage surface water.

(5) The proposed subdivision will not cause unreasonable highway or public road congestion or unsafe conditions with respect to use of the highways or public roads existing or proposed;

The proposed units will access from Portland Ave. with a 90 degree intersection. Sight distances in both directions exceed 500 feet.

(6) The proposed subdivision will provide for adequate solid and sewage waste disposal;

Solid waste will be handled under the Town’s existing collection system with licensed haulers.

Sewage waste will be treated on individual lots with a subsurface disposal system.

(7) The proposed subdivision will not cause an unreasonable burden on the ability of a municipality to dispose of solid waste and sewage if municipal services are to be utilized;

There are no known issues with the ability of the municipality to handle the solid waste from these 32 units. The municipality will not be handling any sewage waste.

(8) The proposed subdivision will not place an unreasonable burden upon local, municipal or governmental services;

There will be no unreasonable burden on the local municipal or governmental services from 32 residential units.

(9) The proposed subdivision will not have an undue adverse effect on the scenic or natural beauty of the area, aesthetics, historic sites or rare and irreplaceable natural areas;

The proposed development has been designed so as to not impact the scenic or historic significance of this site. The Applicant is proposing 6.6 acres of open space along Milliken Mill Pond for the enjoyment of all lot owners. A permanent public easement for foot traffic only is established between lot 32 and Milliken Mill Pond. Lot 32 developer and/or future owner of existing house shall maintain existing exterior features to preserve the historic style of the home.

(10) The proposed subdivision is in conformance with a duly adopted subdivision regulation or ordinance, comprehensive plan, development plan, or land use plan, if any;

This project will conform to subdivision regulations with the exception of a waiver on Street Design Standards Sec. 74-309 (m) and (l); Space and Bulk Regulations Sec. 78-964: lot size, lot frontage, lot width, net lot are, front, side and rear setbacks; Central Collection Treatment System Sec. 74-278 (b)(7)- See revised waiver requests in Exhibit K. On 3/12/2015, The Planning Board ruled in favor of the above mentioned waivers.

(11) The sub-divider has adequate financial and technical capacity to meet the standards stated in subsections (1) through (10) of this section;

The applicant has the financial and technical capacity to complete this project. The applicant has submitted a Performance Guarantee prior to construction.

(12) Whenever situated, in whole or in part, within 250 feet of any pond, lake, river or tidal waters, the proposed subdivision will not adversely affect the quality of such body of water or unreasonably affect the shoreline of such body of water;

N/A

(13) The proposed subdivision will not, alone or in conjunction with existing activities, adversely effect the quality or quantity of groundwater;

The approval of this residential project will in no way adversely affect the quantity or quality of groundwater.

(14) The proposed subdivision will not unreasonably interfere with access to direct sunlight for solar energy systems.

The proposed construction of homes under the current zoning of height limits will not unreasonably interfere with access to direct sunlight for solar energy systems.

NOW THEREFORE the Old Orchard Beach Planning Board has in its Findings of Fact determined that the proposed project will have no significant impact, the Old Orchard Beach Planning Board hereby concludes that the above criteria have been met and resolves to conditionally grant final Subdivision Approval to Diversacorp LLC to develop a 32 lot single-family residential cluster subdivision, roads and associated infrastructure at 202 Portland Ave., MBL: 103-1-32 and 103-1-45. Vote 4 to approve, 0 to deny.

The Planning Board placed ten conditions on this approval (Staff comments in **bold**, as of 4/22/2014):

1. Secure Maine DEP approval before construction begins. **Condition will continue to run with development.**

3. Verify the Stream Protection setback and adjust plans as necessary. **Stream Protection District Boundary adjusted to 100'- Exhibit H, Sheet 1.**
4. One access to Portland Ave. is acceptable upon sign off from the Fire, Police and Public Works Departments. **Fire, Police and Public Works have agreed that one access to Portland Ave. is acceptable. See Exhibit T, BB and CC.**
5. Open space shall be dedicated. **See Exhibit H, Sheet 1.**
6. The Home Owners Association shall be responsible for submission of inspection reports of subsurface waste disposal systems for each lot every three years. Submission of reports shall go to the Old Orchard Beach Licensed Plumbing Inspector with inspections to begin upon occupancy of the last lot. **See Note 25- Exhibit H, Sheet 1.**
7. Note shall be added to the plan to ensure the historic style of the house is preserved. **See Note 21- Exhibit H, Sheet 1.**
8. Sheet 1, lot 32: Add property boundary line from the upper boundary lot line of lot 32 to Milliken Mills Pond. This area shall be a permanent public easement for foot traffic only. **See Plan comment- Exhibit H, Sheet 1.**
9. Applicant and/or owner shall work with the Town Engineer regarding the drainage along Portland Ave. and access along the shoulder of the Westerly side of Portland Ave. Note concerning the 24" storm drain shall be adjusted. Final approval of all changes will be the responsibility of the Public Works Director. **See Plan comment- Exhibit H, Sheet 3.**
10. Applicant and/or owner shall work with the Public Works Director to establish access for pedestrian and bicycles along the Westerly side of Portland Ave., from the Beachmont Subdivision to the permanent public easement adjacent to Milliken Mills Pond. **Condition will continue to run with development.**

SO APPROVED BY THE OLD ORCHARD BEACH PLANNING BOARD on the 12th Day of March, 2015.

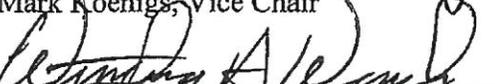


Eber Weinstein, Chair

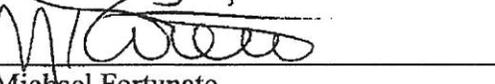
Signature Date: 5/14/15



Mark Koenigs, Vice Chair



Win Winch



Michael Fortunato

Subscribed and Sworn to by the said Eber Weinstein, Mark Koenigs, Winch of Winch + Michael Fortunato to be his/her act and deed on

May 14, 2015

SEAL Before me,
Kim McLaughlin
NOTARY PUBLIC Kim Laughlin
exp. Feb-2021

PROJECT: OOB – Village at Pond View Woods (Orchard Estates) Phase II **PROJECT NO:** 12755B

SUBMITTAL REF NO.: 01 **ENG/TA:** JCW **DATE RECEIVED:** 10/28/2021

CONTRACTOR: Eastern Excavation

REFERENCE: Orchard Estates Plan Set prepared by BH2M dated 4/28/2015
Project Reference

DESCRIPTION: Submittal 01 – Type D Gravel Proctor, Gradation, & Compaction Test Results

NO EXCEPTIONS TAKEN

MAKE CORRECTIONS INDICATED - SEE REMARKS

CONDITIONAL - SEE REMARKS

REVISE AND RESUBMIT - SEE REMARKS

REJECTED - SEE REMARKS

FOR RECORD/INFORMATION ONLY

Review is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades.

REMARKS:

- Material gradation and compaction results appear to meet MEDOT Standard Specifications and compaction requirements on Orchard Estates Plan Set.
- No exception taken.

BY: Jaime Wallace, PE
Wright-Pierce

DATE: 10/28/2021
PAGE 1 **OF** 1

Soil Observation Report

Project Name: Orchard Estates
Location: Old Orchard Beach
Client / Client's Rep: Eastern Excavation
Earthwork Contractor: Eastern Excavation
Work Area: Bouchard Court 1+00 to 8+00,
 Casey Lane 8+00 to 11+00

Project No. : 21-1063
Date: 10/21/21
S.W.COLE Rep. : C. Barrett
Arrived on Site: 8:15am
Left Site: 10:15am

<u>Soil Observations</u>	<u>Observed</u>		<u>Comments</u>
Subgrade Preparation	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	By others
Fill Placement (method and uniformity)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	In place upon arrival
Material (proper type, sample #)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	(4" Crushed Gravel -#28271G) used as 2015 MDOT Type D
Lift Thickness	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	18" verbal from Eastern Excavation
Compaction (equipment, passes)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Compacted prior to arrival
In-place Densities (frequency)*	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	(12) densities taken at random locations

Non-Conformance Items

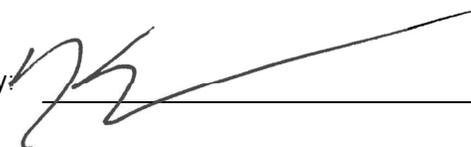
Person Notified: _____ Yes No _____

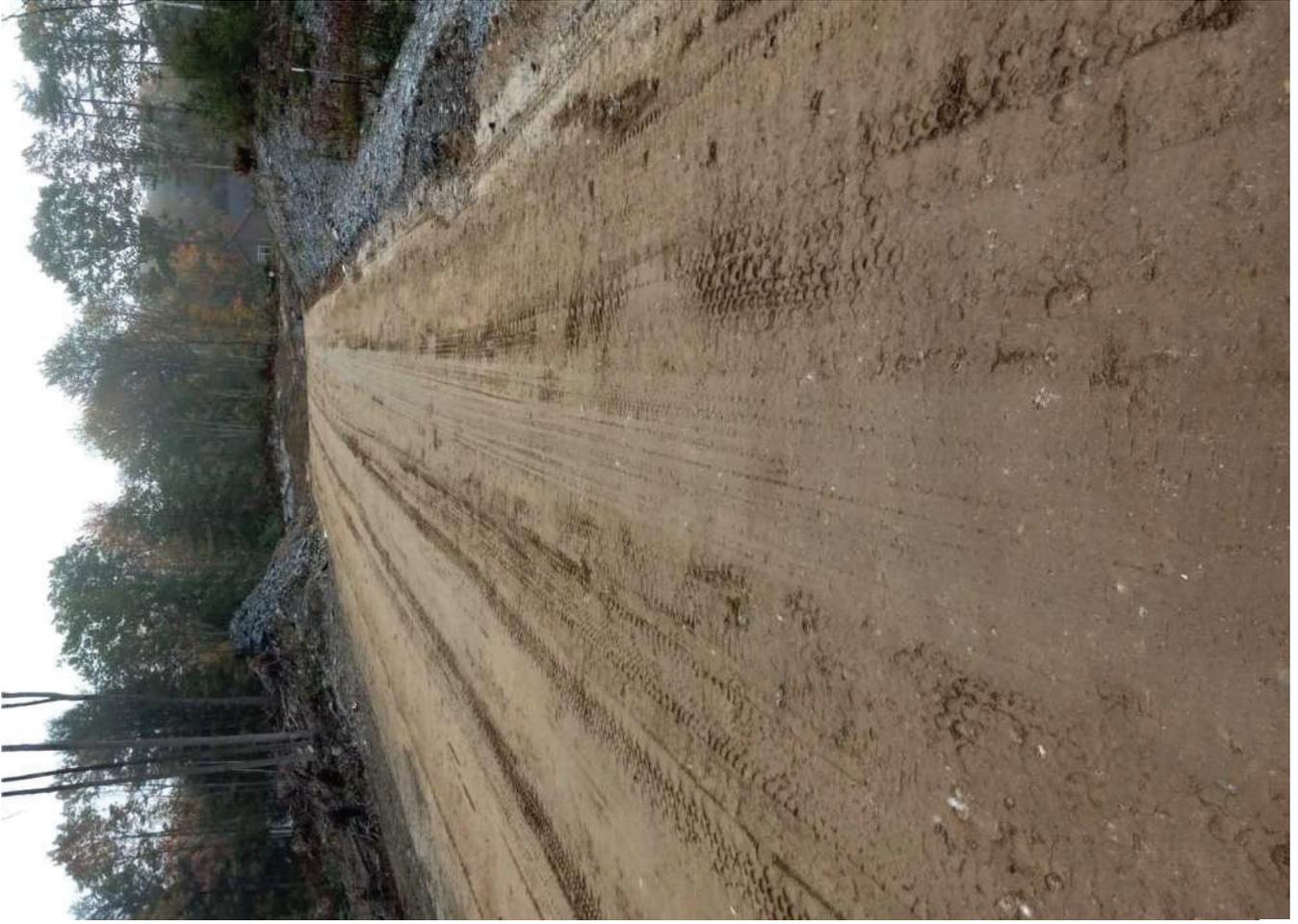
*refer to associated report for in-situ density results

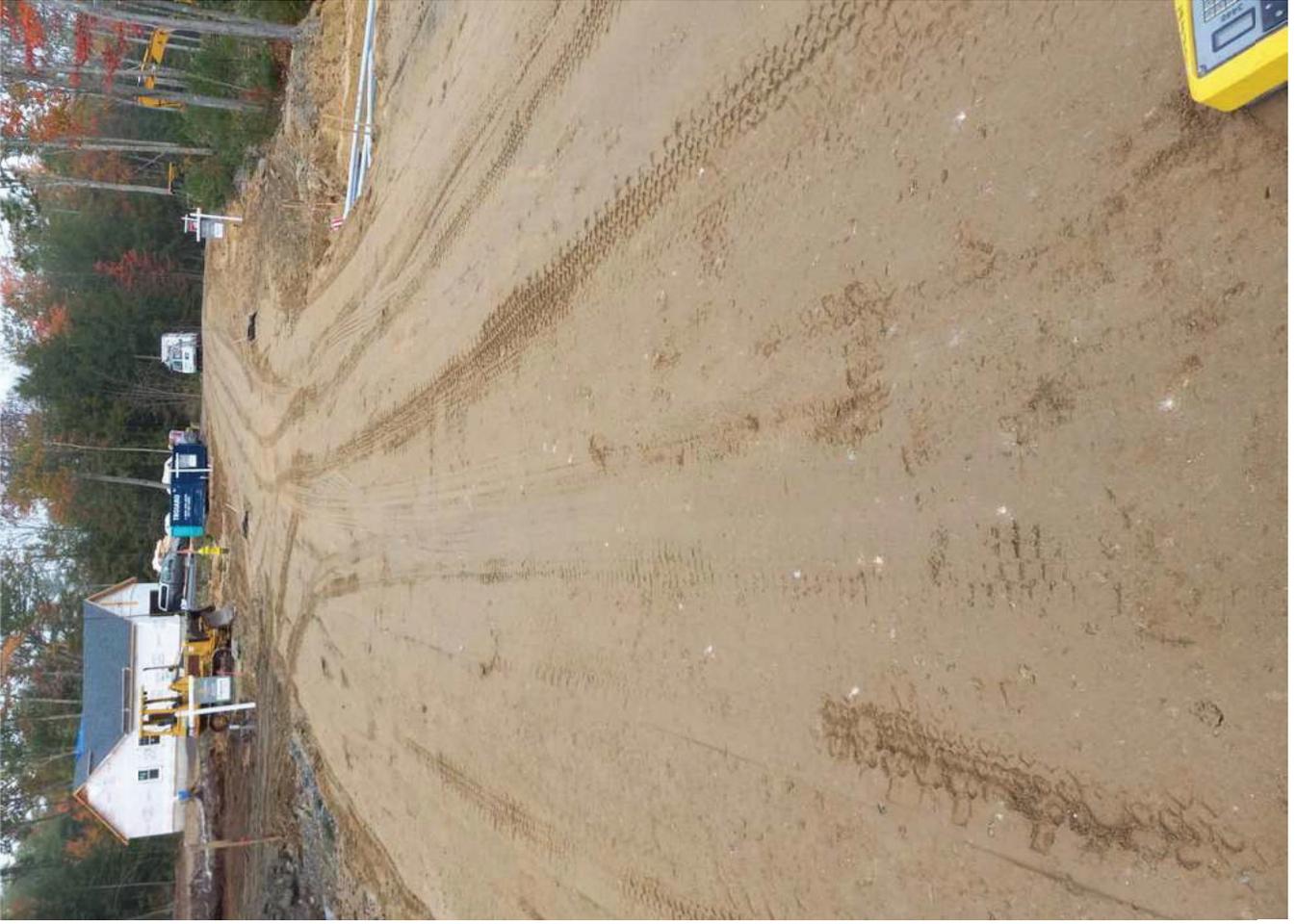
Observations / Discussions:

SW Cole was onsite as scheduled to perform in-situ soil moisture and density testing on the 4" Crushed Gravel - #28271G. We conducted 12 in-situ density tests all at a 12" depth and at elevations between 56.00 to 94.85. The 4" crushed Gravel was sandy with a light brown hue, the material appeared uniform and well compacted. Before testing the lift was verbally indicated as 18". All testing indicated that the material (4" Crushed Gravel -#28271G) was compacted to at least 95% of its maximum dry density as determined by our soils laboratory (Method ASTM D-1557 Modified). With test results ranging from 95.1% to 101.9%. All outcomes were within the required ranges of designed compaction percentages. Test results and observations were verbally reported to Easter Excavation prior to our departure.

Attachments: Photos

Reviewed by:  _____









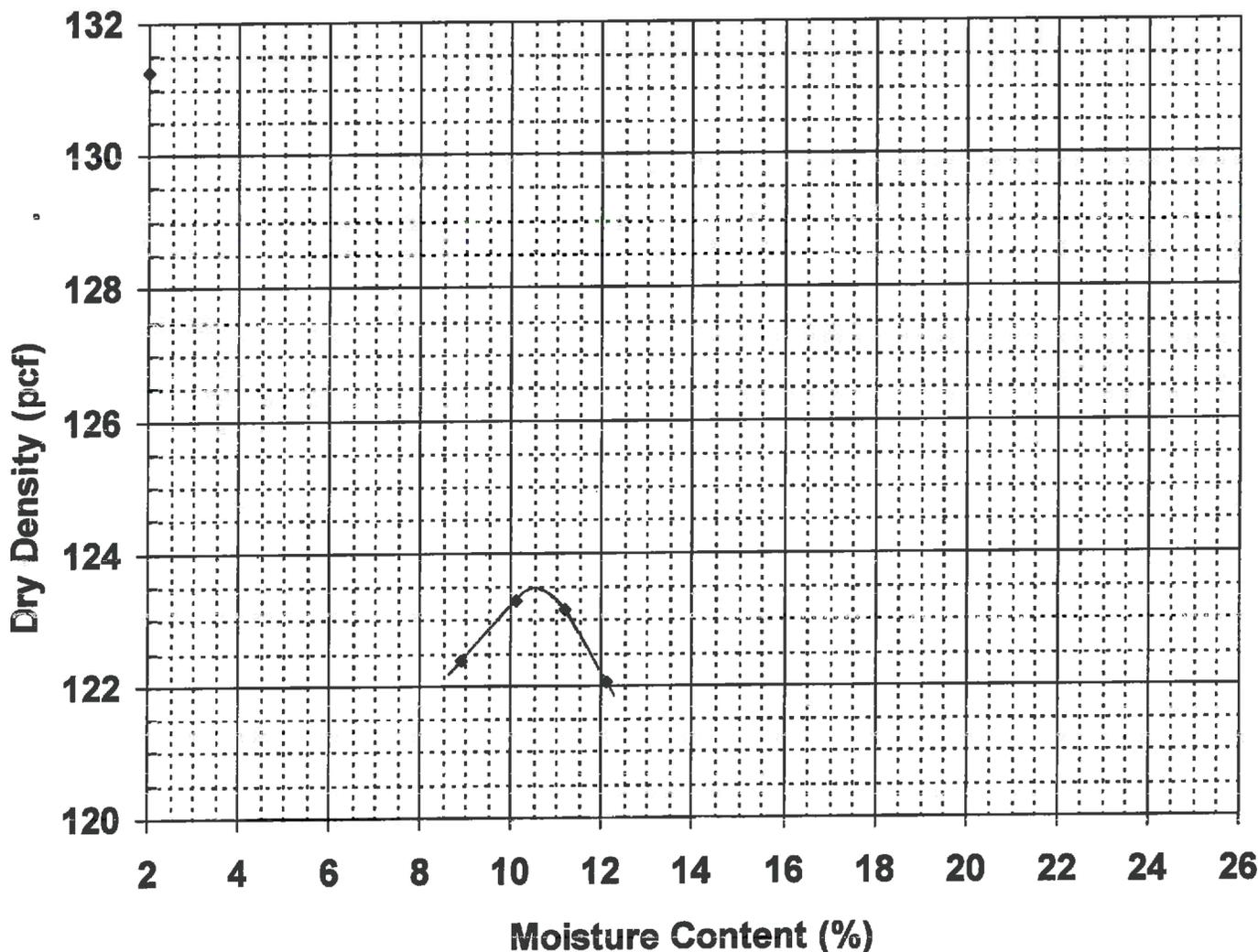
Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name OLD ORCHARD BEACH ME - ORCHARD ESTATES - LABORATORY TESTING
 Client EASTERN EXCAVATION, INC.
 Material Type 4" CRUSHED GRAVEL
 Material Source PORTLAND SAND & GRAVEL

Project Number 21-1063
 Lab ID 28271G
 Date Received 10/21/2021
 Date Completed 10/22/2021
 Tested By PATRICK HAGGERTY

Moisture-Density Relationship Curve



Maximum Dry Density (pcf) 123.5
 Optimum Moisture Content (%) 10.5
 Percent Oversized 30.0%

Corrected Dry Density (pcf) **132**
Corrected Moisture Content (%) **8.0**

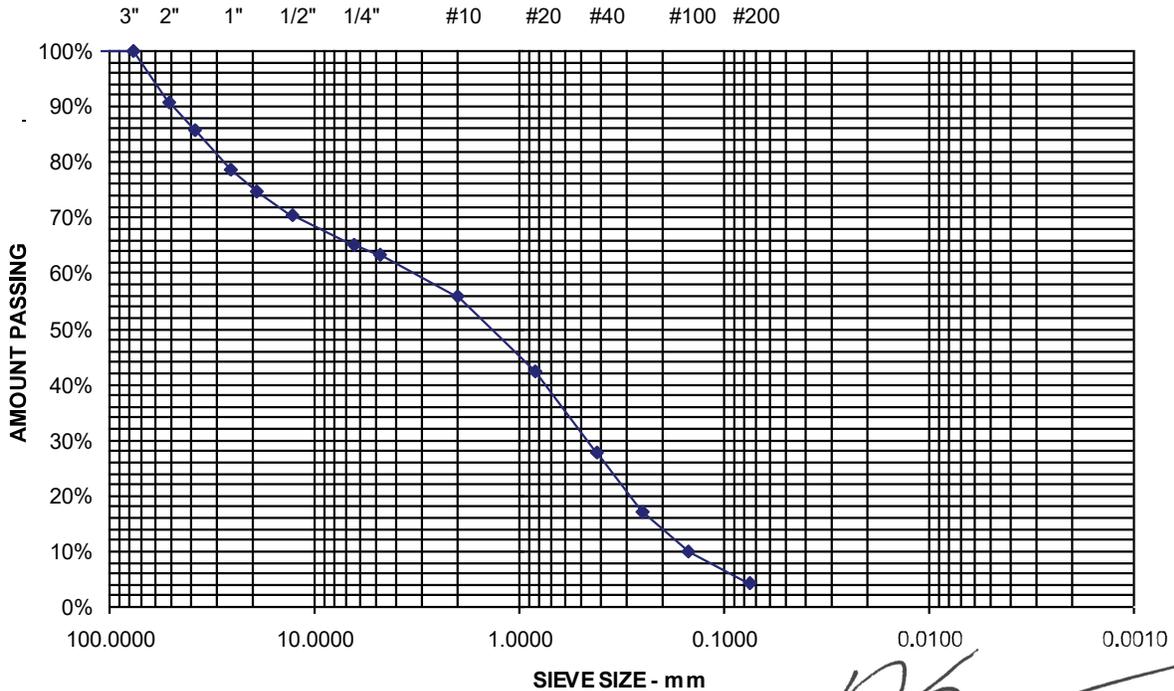
Comments

Project Name OLD ORCHARD BEACH ME - ORCHARD ESTATES - LABORATORY TESTING
 Client EASTERN EXCAVATION, INC.
 Material Type 4" CRUSHED GRAVEL
 Material Source PORTLAND SAND & GRAVEL

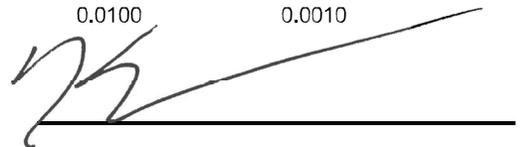
Project Number 21-1063
 Lab ID 28271G
 Date Received 10/21/2021
 Date Completed 10/25/2021
 Tested By PAUL SHAFFER

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>2015 MDOT 703.06 TYPE D SPECIFICATIONS (%)</u>
150 mm	6"	100	100
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	91	
38.1 mm	1-1/2"	86	
25.0 mm	1"	79	
19.0 mm	3/4"	75	
12.5 mm	1/2"	70	35 - 80
6.3 mm	1/4"	65	25 - 65
4.75 mm	No. 4	63	
2.00 mm	No. 10	56	
850 μm	No. 20	42	
425 μm	No. 40	28	0 - 30
250 μm	No. 60	17	
150 μm	No. 100	10	
75 μm	No. 200	4.2	0.0 - 7.0

SAMPLE MEETS SPECIFICATION



Comments 20.0% Retained above the 3" sieve not shown in gradation





Report of Field Density

ASTM D6938

Project: OLD ORCHARD BEACH ME - ORCHARD ESTATES - LABORATORY TESTING

Project Number: 21-1063

Client: EASTERN EXCAVATION, INC.

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture	Compaction Percent	Required Compaction
								Content Percent		
1	10/21/2021	CB	1 + 00 BOUCHARD COURT	79	12	28271G	134.0	3.6	101.5	95
2	10/21/2021	CB	2 + 00 BOUCHARD COURT	73.4	12	28271G	132.7	3.4	100.5	95
3	10/21/2021	CB	3 + 00 BOUCHARD COURT	70.2	12	28271G	137.4	3.5	104.1	95
4	10/21/2021	CB	4 + 00 BOUCHARD COURT	69.25	12	28271G	135.2	3.4	102.4	95
5	10/21/2021	CB	5 + 00 BOUCHARD COURT	66.4	12	28271G	131.6	3.9	99.7	95
6	10/21/2021	CB	6 + 00 BOUCHARD COURT	62.3	12	28271G	129.0	3.1	97.7	95
7	10/21/2021	CB	7 + 00 BOUCHARD COURT	58	12	28271G	129.6	3.9	98.2	95
8	10/21/2021	CB	8 + 00 BOUCHARD COURT	56	12	28271G	128.2	5.0	97.1	95
9	10/21/2021	CB	8 + 00 CASEY LANE	76	12	28271G	135.2	2.5	102.4	95
10	10/21/2021	CB	9 + 00 CASEY LANE	83.6	12	28271G	133.0	4.3	100.8	95
11	10/21/2021	CB	10 + 00 CASEY LANE	91	12	28271G	131.8	3.9	99.8	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry	Optimum	Comments
					Density PCF	Moisture Content (%)	
28271G	10/21/2021	Portland Sand & Gravel	4" Crushed Gravel	ASTM D-1557 Modified C	132.0	8.0	

Elevation Notes:

Comments:



 Reviewed By

PROJECT: OOB – Village at Pond View Woods (Orchard Estates) Phase II

PROJECT NO: 12755B

SUBMITTAL REF NO.: 02

ENG/TA: JCW

DATE RECEIVED: 10/28/2021

CONTRACTOR: Eastern Excavation

REFERENCE: Orchard Estates Plan Set prepared by BH2M dated 4/28/2015
Project Reference

DESCRIPTION: Submittal 02 – Type A Gradation

NO EXCEPTIONS TAKEN	<input type="checkbox"/>
MAKE CORRECTIONS INDICATED - SEE REMARKS	<input type="checkbox"/>
CONDITIONAL - SEE REMARKS	<input type="checkbox"/>
REVISE AND RESUBMIT - SEE REMARKS	<input type="checkbox"/>
REJECTED - SEE REMARKS	<input type="checkbox"/>
FOR RECORD/INFORMATION ONLY	<input checked="" type="checkbox"/>

Review is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades.

REMARKS:

- Material gradation does not meet MEDOT Standard Specification 703.06 for ½” sieve size. However, per an email from Robbie Plummer of Eastern Excavation dated 10/21/2021, Public Works ok'd the use of reclaim in-lieu of Type A gravel.

BY: Jaime Wallace, PE
Wright-Pierce

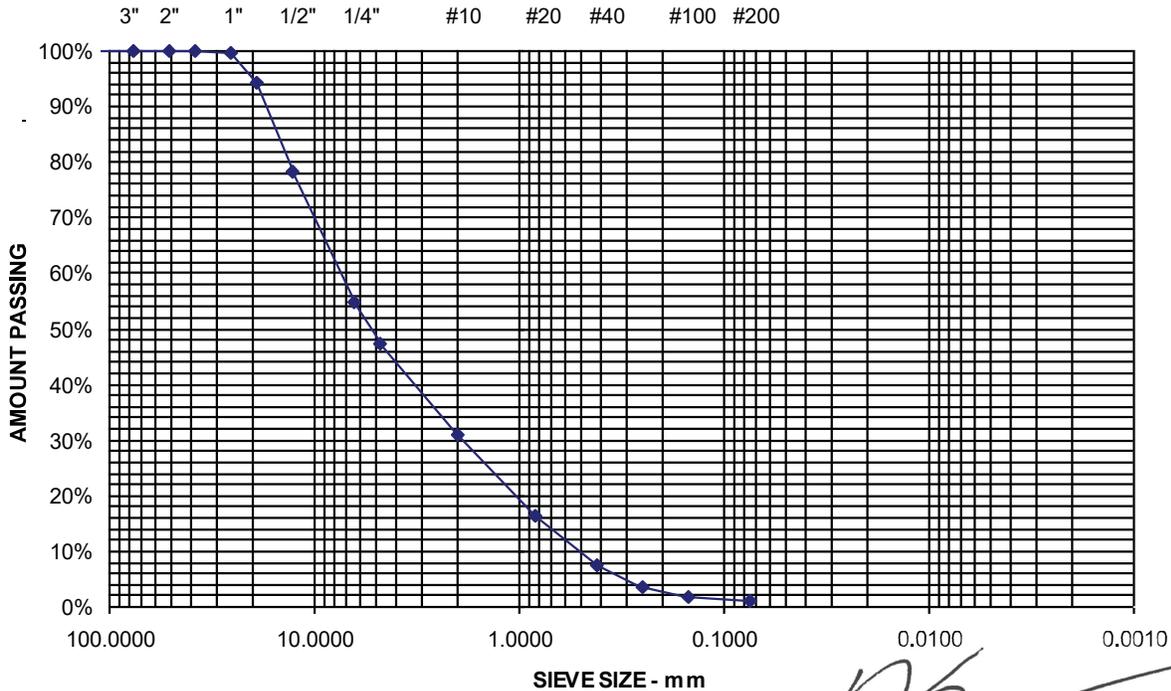
DATE: 10/28/2021
PAGE 1 **OF** 1

Project Name WESTBROOK ME - 2021 SUBMITTAL TESTING
 Client EASTERN EXCAVATION, INC.
 Material Type 3/4" RECLAIM
 Material Source EASTERN EXC. WESTBROOK SHOP

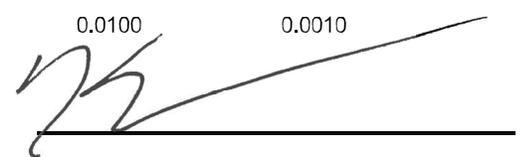
Project Number 21-1256
 Lab ID 28011G
 Date Received 8/10/2021
 Date Completed 8/11/2021
 Tested By PAUL SHAFFER

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>2015 MDOT 703.06 TYPE A</u> <u>SPECIFICATIONS (%)</u>
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	100
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	94	
12.5 mm	1/2"	78	45 - 70 †
6.3 mm	1/4"	55	30 - 55
4.75 mm	No. 4	47	
2.00 mm	No. 10	31	
850 μm	No. 20	16	
425 μm	No. 40	7	0 - 20
250 μm	No. 60	3	
150 μm	No. 100	2	
75 μm	No. 200	1.2	0.0 - 6.0

† SAMPLE DOES NOT MEET SPECIFICATION



Comments



Jaime Wallace

From: Robbie Plummer <rplummer@easternexcavationinc.com>
Sent: Thursday, October 21, 2021 3:25 PM
To: Jaime Wallace
Cc: Stephanie Hubbard; Michael Foster
Subject: RE: Orchard Estates Documentation
Attachments: ~WRD000.jpg

Jamie,

Compaction test took place this morning every 100' per our conversation yesterday. I will send you the gradation and test results as soon as I have them from S W Cole. Reclaim was okayed from Joe Cooper yesterday as well and I will send the gradation for that. Can we get test pits tomorrow with you because I have started reclaim about an hour ago so I will stop until we can get it done.

Thank you
 Rob

Robert A. Plummer III
 President

Eastern Excavation Inc
 81 County Road
 Westbrook, ME 04092
easternexcavationinc.com

P-(207)774-7545
 F-(207)774-7991

From: Jaime Wallace [mailto:jaime.wallace@wright-pierce.com]
Sent: Thursday, October 21, 2021 2:31 PM
To: Robbie Plummer <rplummer@easternexcavationinc.com>
Cc: Stephanie Hubbard <stephanie.hubbard@wright-pierce.com>; Michael Foster <mfoster@oobmaine.com>
Subject: Orchard Estates Documentation

Hi Robbie,

Just wanted to send you a quick email to make sure we are on the same page as far as documentation and inspections go before we get too far along and ahead of pavement installation. Here is the missing documentation we will need for closeout:

- Gradation for Type D and Type A gravels
- Compaction for Type D gravels
- Pavement mix design
- Water main acceptance letter from Maine Water

As far as inspections go, the only outstanding inspection that we have is the Type D gravel installation. We were not contacted to be onsite for the installation of the gravels, and I let Robbie onsite know that we will need to do test pits before any Type A is installed. We can try to coordinate this at the same time as Type A is going down, but we will want to confirm at least 3 locations where Type D is installed before we can sign off on it.

Also as a reminder we will need to be onsite during the following work:

- Type A gravel installation
- Binder pavement installation
- Surface pavement installation

Please let me know if you have any questions or concerns.

Thanks Robbie,
Jaime

Jaime Wallace, PE

Wright-Pierce | Lead Project Engineer
direct 207.798.3744 | **office** 207.725.8721



PROJECT: OOB – Village at Pond View Woods (Orchard Estates) Phase II

PROJECT NO: 12755B

SUBMITTAL REF NO.: 02

ENG/TA: JCW

DATE RECEIVED: 10/28/2021

CONTRACTOR: Eastern Excavation

REFERENCE: Orchard Estates Plan Set prepared by BH2M dated 4/28/2015
Project Reference

DESCRIPTION: Submittal 03 – 19 mm Binder Pavement Mix Design

NO EXCEPTIONS TAKEN	<input type="checkbox"/>
MAKE CORRECTIONS INDICATED - SEE REMARKS	<input type="checkbox"/>
CONDITIONAL - SEE REMARKS	<input type="checkbox"/>
REVISE AND RESUBMIT - SEE REMARKS	<input type="checkbox"/>
REJECTED - SEE REMARKS	<input type="checkbox"/>
FOR RECORD/INFORMATION ONLY	<input checked="" type="checkbox"/>

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REMARKS:

- Material appears to meet MEDOT Standard Specification 703.09.
- No exception taken.

BY: Jaime Wallace, PE
Wright-Pierce

DATE: 10/28/2021
PAGE 1 **OF** 1



ASPHALT MIX DESIGN

BASE JMN: SHB-GO20-19FMR

Mix Grading	Submittal	Submitted By		
HMA MIX-19.0MM (FINE-GRADED WITH 30% RAP)	3/26/2021	MICHAEL LIZOTTE		
Plant	Plant No.	Make	Size	Type
SHAW BROTHERS CONST, INC - GORHAM	2	ASTEC	400 TPH	DRUM

Approved MaineDOT Job Mix No.'s	Binder	1st Item No.	2nd Item No.	3rd Item No.	4th Item No.	5th Item No.
SHB-GO20-19FMR-64	PG64-28	403.207				
SHB-GO20-19FMR-64E	PG64E-28	403.2071				
SHB-GO20-19FMR-ASW64E	PG64E-28	403.2071				

MIX TYPE: F = fine-graded; C = coarse-graded; L = hydrated lime; M = fine micro-deval; R = contains RAP; T = thin lift mix; S = special areas mix; B = asphalt-rich base; UTB = ultra-thin bonded wearing course
 ADDITIVE TYPE: ARGG = asphalt rubber gap-graded; AS = anti-strip; ASW = anti-strip & warm-mix; W = warm-mix

Binder	Binder Supplier	Start Date
PG64-28	IRVING OIL CORPORATION - S PORTLAND	10/22/2020
PG64E-28	ALL STATES ASPHALT, LLC - DEERFIELD, MA	3/30/2021

Additive	Use	Binder	Additive Supplier	%	HWT Approved?	Start Date
ZYCOTHERM SP	ANTI-STRIP & WMA	PG64E-28	ZYDEX INDUSTRIES - VADODARA, INDIA	0.1		3/30/2021

Current Superpave Design Data										
Gyrations	ESAL's	NMAS	Gmm	Gsb	% Binder	New % Binder	Fbe Ratio	Gse	Gmb, weight, g	Verif. Ref No
65	3 to <10	19.0mm	2.485	2.661	5.0	4.0	0.9	2.684	4800	201777

Current Gradation Aims (Percentages Passing Sieve Sizes)												
	1 in. 25.0 mm	¾ in. 19.0 mm	½ in. 12.5 mm	¼ in. 9.5 mm	1/4 in. 6.3 mm	No. 4 4.75 mm	No. 8 2.36 mm	No. 16 1.18 mm	No. 30 0.600 mm	No. 50 0.300 mm	No. 100 0.150 mm	No. 200 0.075 mm
Aim	100	99	82	70		49	40	31	21	12	7	4
Lower	100	92	75	63		42	36	27	18	10	5	2.0
Upper	100	100	89	77		56	44	35	24	14	9	6.0
Spec.	100	90 - 100	- 90				23 - 49					2.0 - 6.0

Aggregate Data				Source Replaced
Ref. No.	%	Size	Original Source/Owner	
21AQ047	23	19.0MM LEDGE	BRICKYARD QUARRY (B PIT) - GORHAM - SHAW BROTHERS	
21AQ049	10	9.5MM LEDGE	BRICKYARD QUARRY (B PIT) - GORHAM - SHAW BROTHERS	
21AQ050	20	COARSE DUST	I PIT (RTE 35) - DAYTON - SHAW BROTHERS	
21AQ052	17	NATURAL SAND	N PIT (RTE 35) - STANDISH - SHAW BROTHERS	
343519	30	RAP	SHB-GO21-A-1 - GORHAM - SHAW BROTHERS	

Comments
Carryover of SHB-GO20-19FMR to 2021. Coarse Dust Ref# 21AQ050 allowed only for 2021 limited to 20% use through MAPA agreement.



Base JMN	Oven Ref No	Specification Date
SHB-GO20-19FMR	20005	01/06/21

Design Criteria														
Start Date	End Date	Specification Date	Resubmittal Date	Change Type	Verification Ref No	Total AC Aim, %	Virgin AC Aim, %	Fbe Ratio	Gmm	State Gsb	Contr. Gsb	State Gse	State FAA	State FMD
3/6/2020	3/29/2021	09/19/19	2/24/2020	Initial Design	247877	5.0	4.1	0.9	2.485	2.661	2.684	2.684		
3/30/2021		01/06/21		Carryover	201777	5.0	4.0	0.9	2.485	2.661	2.661	2.684	47	8.7

Gradation Aims (Percentages Passing Sieve Sizes)													
Start Date	1 in. 25.0 mm	¾ in. 19.0 mm	½ in. 12.5 mm	¼ in. 9.5 mm	1/4 in. 6.3 mm	No. 4 4.75 mm	No. 8 2.36 mm	No. 16 1.18 mm	No. 30 0.600 mm	No. 50 0.300 mm	No. 100 0.150 mm	No. 200 0.075 mm	
3/6/2020	100	99	82	70		49	40	31	21	12	7	4	
3/30/2021	100	99	82	70		49	40	31	21	12	7	4	

HMA Consensus Testing Results													
Start Date	Ref. No.	CAA, % 1F / 2F	FAA	Flat & Elong., %	Sand Equiv.	Coarse MD, %	Fine MD, %	LA Wear	Coarse Sp. Gr.	Coarse Abs., %	Fine Sp. Gr.	Fine Abs., %	Wash. Degrad.
3/30/2021	21AQ047	99 / 98		1					2.730	0.6			42
3/30/2021	21AQ049	100 / 99							2.710	0.9			60
3/30/2021	21AQ050	/	49		74	19.3	8.8		2.587	1.1	2.606	0.8	
3/30/2021	21AQ052	/	44		76		8.5				2.598	0.8	
3/30/2021	343519	/				15.1			2.681	0.6	2.638	0.5	
3/6/2020	20AQ003	94 / 91		2		14.6			2.718	0.5			
3/6/2020	20AQ001	97 / 96				23.9			2.699	0.9			54
3/6/2020	20AQ004	/	48		75		9.7				2.616	0.7	
3/6/2020	20AQ006	/	43		93		7.7				2.596	0.7	
3/6/2020	338760	/				15.1			2.687	0.6	2.638	0.3	

PROJECT: OOB – Village at Pond View Woods (Orchard Estates) Phase II

PROJECT NO: 12755B

SUBMITTAL REF NO.: 04 **ENG/TA:** JCW

DATE RECEIVED: 6/21/2023

CONTRACTOR: Eastern Excavation

REFERENCE: Orchard Estates Plan Set prepared by BH2M dated 4/28/2015
Project Reference

DESCRIPTION: Submittal 04 – 9.5 mm Surface Pavement Mix Design

NO EXCEPTIONS TAKEN	<input type="checkbox"/>
MAKE CORRECTIONS INDICATED - SEE REMARKS	<input type="checkbox"/>
CONDITIONAL - SEE REMARKS	<input type="checkbox"/>
REVISE AND RESUBMIT - SEE REMARKS	<input type="checkbox"/>
REJECTED - SEE REMARKS	<input type="checkbox"/>
FOR RECORD/INFORMATION ONLY	<input checked="" type="checkbox"/>

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REMARKS:

- Material appears to meet MEDOT Standard Specification 703.09.
- Material appears to meet Orchard Estates Plan Set prepared by BH2M dated 4/28/2015.

BY: Jaime Wallace, PE
Wright-Pierce

DATE: 6/21/2023
PAGE 1 **OF** 1



ASPHALT MIX DESIGN

BASE JMN: PII-WB23-95FMTR

Mix Grading		Submittal	Submitted By		
HMA MIX-9.5MM (FINE-GRADED WITH 20% RAP)		3/20/2023	RICK CLOUTIER		
Plant	Plant No.	Make	Size	Type	
PIKE INDUSTRIES - WESTBROOK	730	GENCOR	400 TPH	DRUM	

Approved MaineDOT Job Mix No.'s	Binder	1st Item No.	2nd Item No.	3rd Item No.	4th Item No.	5th Item No.
PII-WB23-95FMTR-64	PG64-28	403.210	403.2104	403.211	461.210	403.209
PII-WB23-95FMTR-64E	PG64E-28	403.2101	403.21041	403.2111	461.2101	403.209
PII-WB23-95FMTR-64ET	PG64E-28T	403.2101	403.21041	403.2111	461.2101	403.209

MIX TYPE: F = fine-graded; C = coarse-graded; L = hydrated lime; M = fine micro-deval; R = contains RAP; T = thin lift mix; S = special areas mix; B = asphalt-rich base; UTB = ultra-thin bonded wearing course
 ADDITIVE TYPE: ARGG = asphalt rubber gap-graded; AS = anti-strip; ASW = anti-strip & warm-mix; W = warm-mix

Binder	Binder Supplier	Start Date
PG64E-28	ALL STATES ASPHALT, LLC - DEERFIELD, MA	4/13/2023
PG64E-28	ALL STATES ASPHALT, LLC - BANGOR	4/13/2023
PG64-28	PIKE INDUSTRIES - NEWINGTON, NH	5/3/2023

Current Superpave Design Data										
Gyrations	ESAL's	NMAS	Gmm	Gsb	% Binder	New % Binder	Fbe Ratio	Gse	Gmb, weight, g	Verif. Ref No
65	>= 10	9.5mm	2.430	2.652	6.6	5.7	0.7	2.687	4650	248101

Current Gradation Aims (Percentages Passing Sieve Sizes)												
	1 in. 25.0 mm	¾ in. 19.0 mm	½ in. 12.5 mm	¼ in. 9.5 mm	1/4 in. 6.3 mm	No. 4 4.75 mm	No. 8 2.36 mm	No. 16 1.18 mm	No. 30 0.600 mm	No. 50 0.300 mm	No. 100 0.150 mm	No. 200 0.075 mm
Aim			100	99		68	50	35	23	13	7	4.5
Lower			100	95		61	47	31	20	11	5	2.5
Upper			100	100		75	54	39	26	15	9	6.5
Spec.			100	95 - 100		60 - 95	47 - 65					2.0-7.0

Aggregate Data				Source Replaced
Ref. No.	%	Size	Original Source/Owner	
21AQ069	34	9.5MM LEDGE	PIKE QUARRY (RTE 122) - POLAND - PIKE INDUSTRIES	
21AQ061	18	SCREEN SAND	PIKE PIT (VARNEY MILL RD) - WINDHAM - PIKE INDUSTRIES	
21AQ073	12	WASHED STONE SCREENINGS	PIKE QUARRY (RTE 122) - POLAND - PIKE INDUSTRIES	
21AQ072	16	DRY STONE SCREENINGS	PIKE QUARRY (RTE 122) - POLAND - PIKE INDUSTRIES	
344898	20	RAP	PII-WB21-A-II - WESTBROOK - PIKE INDUSTRIES	

Comments
Re-sent to apply initial design aim changes prior to verification submittal.



Base JMN	Furnace Ref No	Specification Date
PII-WB23-95FMTR	23027	01/06/21

Design Criteria

Start Date	End Date	Specification Date	Resubmittal Date	Change Type	Verification Ref No	Total AC Aim, %	Virgin AC Aim, %	Fbe Ratio	Gmm	State Gsb	Contr. Gsb	State Gse	State FAA	State FMD
4/13/2023		01/06/21		Initial Design	248101	6.6	5.7	0.7	2.430	2.652	2.652	2.687	48	7.9

Gmm and No. 30 aim changed after initial submittal.

Gradation Aims (Percentages Passing Sieve Sizes)

Start Date	1 in. 25.0 mm	¾ in. 19.0 mm	½ in. 12.5 mm	¼ in. 9.5 mm	1/4 in. 6.3 mm	No. 4 4.75 mm	No. 8 2.36 mm	No. 16 1.18 mm	No. 30 0.600 mm	No. 50 0.300 mm	No. 100 0.150 mm	No. 200 0.075 mm
4/13/2023			100	99		68	50	35	23	13	7	4.5

HMA Consensus Testing Results

Start Date	Ref. No.	CAA, % 1F / 2F	FAA	Flat & Elong., %	Sand Equiv.	Coarse MD, %	Fine MD, %	LA Wear	Coarse Sp. Gr.	Coarse Abs., %	Fine Sp. Gr.	Fine Abs., %	Wash. Degrad.
4/13/2023	21AQ069	100 / 100				9.3			2.653	0.6			
4/13/2023	21AQ061	/	44		82		7.5				2.601	0.7	
4/13/2023	21AQ073	/	50		82	15.4	8.3		2.625	0.8	2.649	0.4	
4/13/2023	21AQ072	/	51		74		8.1				2.659	0.3	
4/13/2023	344898	/				9.8			2.794	0.5	2.658	0.6	

PROJECT: OOB – Village at Pond View Woods (Orchard Estates) Phase II **PROJECT NO:** 12755B

SUBMITTAL REF NO.: 05 **ENG/TA:** BMS **DATE RECEIVED:** 8/2/2023

CONTRACTOR: Eastern Excavation

REFERENCE: Orchard Estates Plan Set prepared by BH2M dated 4/28/2015
Project Reference

DESCRIPTION: Submittal 05 – Binder Pavement Tonnage

NO EXCEPTIONS TAKEN

MAKE CORRECTIONS INDICATED - SEE REMARKS

CONDITIONAL - SEE REMARKS

REVISE AND RESUBMIT - SEE REMARKS

REJECTED - SEE REMARKS

FOR RECORD/INFORMATION ONLY

Review is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades.

REMARKS:

- Material and tonnage appear to meet Orchard Estates Plan Set prepared by BH2M dated 4/28/2015.

BY: Brooke Springer
Wright-Pierce

DATE: 8/7/2023
PAGE 1 **OF** 1



SHAW BROTHERS CONSTRUCTION, INC.

P.O. BOX 69 GORHAM, MAINE 04038

MAIN OFFICE
839-2552 ~ FAX 839-6239

MATERIAL ORDERS
892-6363 ~ FAX 892-5167

WWW.SHAWBROTHERS.COM

061
INVOICE

Invoice #: HMA 11335
Invoice Date : 11/14/2021
Customer # : 402
Terms: Net 30

2022
2700

SOLD TO:

Eastern Excavation
81 County Road
Westbrook, ME 04092
Attn

TICKET DATE	TICKET #	MATERIAL DESCRIPTION	NET
-------------	----------	----------------------	-----

402EE		Eastern Excavation	Orchard Estates	
11/9/2021	101,513 ✓	101	19.0mm Base Binder	24.30 Tons
11/9/2021	101,514 ✓	101	19.0mm Base Binder	24.31 Tons
11/9/2021	101,516 ✓	101	19.0mm Base Binder	24.28 Tons
11/9/2021	101,528 ✓	101	19.0mm Base Binder	24.20 Tons
11/9/2021	101,529 ✓	101	19.0mm Base Binder	24.35 Tons
11/9/2021	101,530 ✓	101	19.0mm Base Binder	24.29 Tons
11/9/2021	101,531 ✓	101	19.0mm Base Binder	24.24 Tons
11/9/2021	101,544 ✓	101	19.0mm Base Binder	24.22 Tons
11/9/2021	101,545 ✓	101	19.0mm Base Binder	24.21 Tons
11/9/2021	101,548 ✓	101	19.0mm Base Binder	24.27 Tons
11/9/2021	101,553 ✓	101	19.0mm Base Binder	24.25 Tons
11/9/2021	101,566 ✓	101	19.0mm Base Binder	24.17 Tons
11/9/2021	101,569 ✓	101	19.0mm Base Binder	24.25 Tons
11/9/2021	101,571 ✓	101	19.0mm Base Binder	24.21 Tons
11/9/2021	101,576 ✓	101	19.0mm Base Binder	24.22 Tons
11/10/2021	101,612 ✓	101	19.0mm Base Binder	24.43 Tons
11/10/2021	101,615 ✓	101	19.0mm Base Binder	24.33 Tons
11/10/2021	101,623 ✓	101	19.0mm Base Binder	24.32 Tons

Order Subtotal

436.85 Ton

Date: **10/25/2021**

Project No.: **20642A**

To: **Jim Butler – Town of Old Orchard Code Enforcement Officer**

From: **Jaime Wallace, PE**

Subject: **Village at Pond View Woods (Orchard Estates) Phase II – Vegetated Soil Filter B Certification**

This memorandum has been prepared to serve as documentation for the certification of vegetated soil filter B located in Phase II of the Village at Pond View Woods (Orchard Estates) Subdivision in accordance with the Orchard Estates Plan Set prepared by BH2M dated April 28, 2015.

Attached to this memo is a daily field report for a site inspection completed on 4/28/2021 as well as materials submittals based on the contract plan set. Wright-Pierce was onsite to observe construction of the underdrain soil filter at the specific intervals described on the contract plan set. Therefore, underdrain soil filter B appears to have been constructed in accordance with the Orchard Estates Plan Set prepared by BH2M dated April 28, 2015. Furthermore, it appears the structure is currently functioning as intended.

Should you have any questions, please do not hesitate to get in touch with me at 207-798-3744.

Date: October 25, 2021 By: _____



Signature

Jaime Wallace, PE

 Print Name

Town of OOB Qualified Stormwater Inspector

 Title/Qualifications

Memo: Village at Pond View Woods (Orchard Estates) Phase II – Vegetated Soil Filter B Certification

Cc:

- *Jeffrey Hinderliter – Town Planner*
- *Michael Foster – Assistant Town Planner*
- *Peter Bouchard – Owner*
- *Stephanie Hubbard, PE – Wright-Pierce Senior Project Manager*

Attachments:

- Daily Field Report dated 4/28/2021.
- Material Submittals

3rd PARTY INSPECTION FIELD REPORT

Project	Village at Pond View Woods (a.k.a. Orchard Estates Phase II)		
Contract No.	WP 12755B	Date:	4/28/2021
Job Location	Off Portland Ave.		
Owner	Peter Bouchard (peter@mobile.us)		
Design Engineer	BH2M (Contact: Steven Blake 207-839-2771)		
Contractor:	Eastern Excavation, Inc. (Contact: Robert Plummer III (207-774-7545))		
Weather:	Cloudy	Temperature	58 °F
Time On-Site	8:30 AM/1:00 PM	Time Leaving Site	9:30 AM/ 2:00 PM
Requested Inspection	USF B Installation		
Area of Work	Phase II – Bouchard Court		
ESC Inspection Completed:	No		

Inspection Visitors/Personnel On-site:

- Jaime Wallace – Wright-Pierce
- Mike Foster – Town of Old Orchard
- Robbie Plummer IV – Eastern Excavation, Inc.

Summary of Construction Activities/Comments/Observations:

- Wright-Pierce was contacted on to perform inspection on the installation of USF B for Phase II of Village at Pond View Woods (Orchard Estates).
- Wright-Pierce's inspections are based on the Orchard Estates project plan set prepared by BH2M dated 4/28/2015.
- Upon arrival to the project site, the contractor had excavated the area for the soil filter and installed the polyethylene liner and underdrain pipes. The configuration of the underdrain pipes appears to be in conformance with the project plan set.
- The contractor had also installed the emergency spillway in the location shown on the project plan set. Wright-Pierce was unable to confirm the elevations of the emergency spillway but requested that the Contractor capture the elevations on an as-built survey.
- At around 1:00 P.M. Wright-Pierce arrived back on the project site to observe installation of the drainage area.
- Wright-Pierce observed backfill of the final section of the drainage layer and observed compaction of the drainage layer.
 - The contractor utilized a vibratory plate compactor to compact the drainage layer prior to installation of the soil filter media.

Documents Submitted/Reviewed On-Site/Discussed:

- Town of Old Orchard Beach Infrastructure Inspection Procedures. Distributed to all parties in attendance at pre-construction meeting.

Actions Required:

- Submit copy of erosion and sedimentation control plan.
- Submit copy of post-construction management plan with signed maintenance agreement.

Action Follow-Up (Actions Noted during Previous Inspections):

Action/Deficiency Summary (Observed during previous inspection)	Date Observed	Resolved (Yes/No)	Re-inspection Date(s)	Comments/Corrective Actions taken and/or Additional Observations
Submit copy of erosion and sedimentation control plan	2/26/2021	No	3/19/2021	
Submit copy of post-construction management plan with signed maintenance agreement	2/26/2021	No	3/19/2021	

Document Tracking:

Date Documents Submitted	Reference Documents	Notes/Revisions
Pre-Construction Documents		
2/25/2021	Primary Contact for Project Communication	2/25/2021: COMPLETE
2/25/2021	Contact Information for Construction Team	2/25/2021: COMPLETE
2/25/2021	Construction Schedule	Discussed During Pre-Construction Meeting
4/28/2015	PDF of Site/Subdivision Plans and Details – <i>Issued for Construction</i>	4/28/2015: COMPLETE
2/24/2021	Performance Guarantee and Escrow	2/24/2021: COMPLETE
	Copy of Erosion and Sedimentation Control Plan <i>(A copy should be on-site at all times along with contractor logs)</i>	
	Copy of Approved Permits and Order of Conditions	
	Copy of the Post-Construction Management Plan, Signed Maintenance Agreement and List of Post-Construction BMPs in accordance with Ch 71 Requirements	
Construction Documents		
3/19/2021	Clearing and Grubbing	No exceptions taken
3/19/2021	Erosion and Sedimentation Control	No exceptions taken. Inspections to continue throughout duration of project.
Not Applicable	Wastewater Collection System (Sewer) Installation	Not Applicable. Individual septic systems.
Not Applicable	Wastewater Collection System (Sewer) Testing	Not Applicable. Individual septic systems.
Not Applicable	CCTV Inspection of Sewer Infrastructure	Not Applicable. Individual septic systems.
3/19/2021	Storm Drain Installation (Infrastructure)	No exceptions taken on sections that were visible during inspection. It is recommended that CCTV be performed on storm drain lines in accordance with OOB Infrastructure Inspection Procedures. Wright-Pierce to verify drainage at tie into Phase I. 3/25/2021: No exceptions taken.
3/19/2021	Storm Drain Installation (graded)	No exceptions taken on sections that were visible during inspection. It is recommended that CCTV be performed on storm drain lines in accordance with OOB Infrastructure Inspection Procedures. Wright-Pierce to verify drainage at tie into Phase I. 3/25/2021: No exceptions taken.
	CCTV Inspection of Storm Drain Infrastructure	
	Stormwater BMPs (inspection by EOR Anticipated)	
	Site Subgrade	
	Aggregate Base Material	
	Aggregate Subbase Material	
	Pavement: Binder	

	Pavement: Surface	
	Loam and Seed/Landscaping	
	Substantial Completion	
	Final Completion	
Construction Documents		
	Erosion and Sedimentation Control Logs	
	ESC, Site Inspections and Field Reports by Engineer-of-Record or Developers Inspection Engineer	
	Stormwater BMP Certification by Engineer-of-Record	
	Roadway: Aggregate Gradation Results	
	Roadway: Compaction Testing Results	
	Roadway: Pavement Mix Design	
	Roadway: Weight-slips	
	Water Main Acceptance Letter from MaineWater	
Not Applicable	Sewer testing results	Not Applicable. Individual septic systems.

Signed By: Jaime Wallace

Name Jaime Wallace, PE Title Lead Project Engineer

Copy To:

Jeffrey Hinderliter, Town Planner, jhinderliter@oobmaine.com

Michael Foster, Associate Planner, mfoster@oobmaine.com

Joe Cooper, Director of Public Works, jcooper@oobmaine.com

Stephanie Hubbard, Wright-Pierce, stephanie.hubbard@wright-pierce.com

Jaime Wallace, Wright-Pierce, Jaime.wallace@wright-pierce.com

Peter Bouchard, Peter@mobile.us

Andrew Peterson, Modular Sales, Modularsales@aol.com

Robbie Plummer III, Eastern Excavation, Inc., rplummer@easternexcavationinc.com

Photos:



Photo 1: 4" Underdrain Installed Prior to Course Gravel Backfill (Photo Taken by Jaime Wallace, PE Dated 4/28/2021)



Photo 2: Emergency Spillway Installed (Photo Taken by Jaime Wallace, PE Dated 4/28/2021)



Photo 3: Course Gravel Installed & Compacted (Photo Taken by Jaime Wallace, PE Dated 4/28/2021)



Photo 4: USF B Vegetation Growth (Photo Taken by Jaime Wallace, PE Dated 10/22/2021)

PROJECT: Orchard Estates **PROJECT NO:** 12755A
CONTRACT NO.: 12755A **ENG/TA:** J. Wallace **DATE RECEIVED:** 3/26/2021
CONTRACTOR: Eastern Excavation, Inc. 81 County Road, Westbrook, ME 04092
SHOP DRAWING NUMBER: 1
DESCRIPTION: Seed Mixture

NO EXCEPTIONS TAKEN	(<input checked="" type="checkbox"/>)
MAKE CORRECTIONS INDICATED - SEE REMARKS	(<input type="checkbox"/>)
CONDITIONAL - SEE REMARKS	(<input type="checkbox"/>)
REVISE AND RESUBMIT - SEE REMARKS	(<input type="checkbox"/>)
REJECTED - SEE REMARKS	(<input type="checkbox"/>)
FOR RECORD/INFORMATION ONLY	(<input type="checkbox"/>)

Review is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades.

REMARKS:

- Submittal reviewed for conformance with construction of Vegetated Soil Filter B only.
- Seed appears resilient to wet conditions & northern conditions.
- No exception taken.

BY: Jaime Wallace, PE
Wright-Pierce

DATE: 3/26/2021
 Page 1 of 1



SUBMITTAL COVER SHEET

Project: Orchard Estates	
Owner: Orchard Estates Holding LLC	
General Contractor:	Engineer: BH2M
Project Manager:	Contact :
Address:	Address: 28 State Street
	Gorham ME 04038
Phone:	Phone:

SPECIFICATION SECTION: _____ SUBMITTAL DATE: 3/26/2021

SUBMITTAL NUMBER: _____

TYPE OF SUBMITTAL:

- | | | |
|---|---|--|
| <input type="checkbox"/> Sample | <input type="checkbox"/> Warranty | <input checked="" type="checkbox"/> Product Data |
| <input type="checkbox"/> Certificates | <input type="checkbox"/> Test Report | <input type="checkbox"/> Research Report |
| <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Schedule | <input type="checkbox"/> Qualification Data |
| <input type="checkbox"/> Color Chart | <input type="checkbox"/> Material Safety Data | <input type="checkbox"/> Record Document |
| <input type="checkbox"/> Maintenance Instructions | | |

DESCRIPTION OF SUBMITTAL:

Product Name Pond seed mix

Manufacturer: Peter Lyford Inc

Contractor/Supplier: Peter Lyford Inc

ARCHITECT'S/ENGINEER'S ACTION:

Orchard Estates
Seed Submittal

Roadside Mix/Slope mix/Cottage mix

Me meth#2

34.31%creeping red fescue

34.29%hard fescue

18.71%annual ryegrass

5.96%white clover

4.84%colonial bentgrass

Slope/pond bottom mix

39.27%tall fescue

39.21%creeping red fescue

19.77%birdsfoot trefoil

PROJECT: Orchard Estates **PROJECT NO:** 12755A
CONTRACT NO.: 12755A **ENG/TA:** J. Wallace **DATE RECEIVED:** 3/29/2021
CONTRACTOR: Eastern Excavation, Inc. 81 County Road, Westbrook, ME 04092
SHOP DRAWING NUMBER: 2A
DESCRIPTION: Pond Liner

NO EXCEPTIONS TAKEN	(X)
MAKE CORRECTIONS INDICATED - SEE REMARKS	()
CONDITIONAL - SEE REMARKS	()
REVISE AND RESUBMIT - SEE REMARKS	()
REJECTED - SEE REMARKS	()
FOR RECORD/INFORMATION ONLY	()

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REMARKS:

- MDPE liner appears to have similar properties as LLDPE liner.
- 20 mil liner approved for this application.
- No exceptions taken.

BY: Jaime Wallace, PE
Wright-Pierce
DATE: 3/30/2021
 Page 1 of 1



SUBMITTAL COVER SHEET

Project: Orchard Estates	
Owner: Orchard Estates Holding LLC	
General Contractor:	Engineer: BH2M
Project Manager:	Contact :
Address:	Address: 28 State Street
	Gorham ME 04038
Phone:	Phone:

SPECIFICATION SECTION: _____ SUBMITTAL DATE: 3/29/2021

SUBMITTAL NUMBER: _____

TYPE OF SUBMITTAL:

- | | | |
|---|---|--|
| <input type="checkbox"/> Sample | <input type="checkbox"/> Warranty | <input checked="" type="checkbox"/> Product Data |
| <input type="checkbox"/> Certificates | <input type="checkbox"/> Test Report | <input type="checkbox"/> Research Report |
| <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Schedule | <input type="checkbox"/> Qualification Data |
| <input type="checkbox"/> Color Chart | <input type="checkbox"/> Material Safety Data | <input type="checkbox"/> Record Document |
| <input type="checkbox"/> Maintenance Instructions | | |

DESCRIPTION OF SUBMITTAL:

Product Name: Detention Pond liner

Manufacturer: RUFCO

Contractor/Supplier: Ferguson Waterworks

ARCHITECT'S/ENGINEER'S ACTION:

Product Description

RUFECO® 2010B, 3010B and 4010B are membranes consisting of a blended linear polyethylene. Carbon black provides protection from UV rays. RUFECO® 2010B, 3010B and 4010B do not contain plasticizers that in time can migrate to the surface, causing premature aging. Manufactured from virgin and select reprocessed resins, RUFECO® 10-Series membranes are designed to provide an economical solution to many applications.

Product Use

RUFECO® 2010B, 3010B and 4010B are used in applications requiring high puncture and tear resistance. The carbon black additive assures long outdoor life. RUFECO® 2010B, 3010B and 4010B are flexible and will conform to a variety of surfaces.

Size & Packaging

RUFECO® 2010B, 3010B and 4010B are available in large fabricated panels up to 60,000 sq. ft. in 2010B, 40,000 sq. ft. in 3010B, and 30,000 sq. ft. in 4010B. All panels are accordion folded every five feet and rolled tightly on a heavy-duty core for ease of handling.



Pond Liner

Product

Part

RUFECO®	2010B
RUFECO®	3010B
RUFECO®	4010B

Applications

- Interim Landfill Covers
- Canal Linings
- Decorative Ponds
- Outdoor Coverings
- Brine Ponds
- Fire Ponds
- Remediation Liners
- Farm Ponds
- Oil Field Pit Liners

MDPE Black Polyethylene

PROPERTIES	TEST METHOD	RUFECO® 2010B		RUFECO® 3010B		RUFECO® 4010B	
		Imperial	Metric	Imperial	Metric	Imperial	Metric
Appearance		Black		Black		Black	
Thickness, Nominal		20 mil	0.51 mm	30 mil	0.75 mm	40 mil	1.00 mm
Weight		93 lbs/MSF	453 g/m ²	142 lbs/MSF	692 g/m ²	189 lbs/MSF	921 g/m ²
*Tensile Strength lbf/in. (N/cm)	ASTM D6693	75 lbf	131 N	114 lbf	200 N	154 lbf	270 N
*Elongation at Break	ASTM D6693	800%	800%	800%	800%	800%	800%
*Tear Resistance	ASTM D1004	11 lbf	49 N	16 lbf	71 N	22 lbf	98 N
Mullen Burst	ASTM D751	100 psi	689 kPa	170 psi	1170 kPa	220 psi	1517 kPa
Puncture Resistance	ASTM D4833	30 lbf	133 N	45 lbf	200 N	60 lbf	267 N
Volatile Loss	ASTM D1203	< 1%	< 1%	< 1%	< 1%	< 1%	< 1%
Dimensional Stability	ASTM D1204	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%
Maximum Use Temperature		180°F	82°C	180°F	82°C	180°F	82°C
Minimum Use Temperature		-70°F	-57°C	-70°F	-57°C	-70°F	-57°C
Permeability							
Perms grains/(ft ² ·hr·in·Hg) (g/(24hr·m ² ·mm Hg))	ASTM E96 Method A	0.041 Perms	(0.027) Perms	0.031 Perms	(0.020) Perms	0.024 Perms	(0.015) Perms
FACTORY SEAM REQUIREMENTS							
Bonded Seam Strength	**ASTM D6392	48 lbf/in.	84 N/cm	74 lbf/in.	130 N/cm	86 lbf/in.	150 N/cm
Seam Peel Adhesion	**ASTM D6392	47 lbf/in.	82 N/cm	52 lbf/in.	91 N/cm	84 lbf/in.	147 N/cm

* Tests are an average of MD and TD directions.

** International Cover Systems performs seam testing at 12" per minute.



RUFECO® 2010B, 3010B and 4010B are membranes consisting of a blended linear polyethylene. Carbon black provides protection from UV rays. RUFECO® 2010B, 3010B and 4010B do not contain plasticizers that in time can migrate to the surface, causing premature aging.

RUFECO® 2010B, 3010B and 4010B contain a very high-strength polyethylene resin blended with our in-house trim and start-up material. RUFECO® 2010B, 3010B and 4010B are offered as an alternative to our virgin resin films for non-critical applications. They may contain minor cosmetic gels, small surface particles and a lower minimum thickness tolerance.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. INTERNATIONAL COVER SYSTEMS MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

PROJECT: Village at Pond View Woods (Orchard Estates) **PROJECT NO:** 12755A
CONTRACT NO.: 12755A **ENG/TA:** J. Wallace **DATE RECEIVED:** 4/1/2021
CONTRACTOR: Eastern Excavation, Inc. 81 County Road, Westbrook, ME 04092
SHOP DRAWING NUMBER: 3A
DESCRIPTION: Underdrain Gravel

NO EXCEPTIONS TAKEN	(X)
MAKE CORRECTIONS INDICATED - SEE REMARKS	()
CONDITIONAL - SEE REMARKS	()
REVISE AND RESUBMIT - SEE REMARKS	()
REJECTED - SEE REMARKS	()
FOR RECORD/INFORMATION ONLY	()

Review is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades.

REMARKS:

- Material appears to meet MEDOT Standard Specification 703.22.
- No exceptions taken.

BY: Jaime Wallace, PE
Wright-Pierce
DATE: 4/2/2021
 Page 1 of 1

Gradation Test Report

Plant 020_00624-Wells (Aggregate)
 Product 7307-Underdrain Sand
 Specification MeDOT Underdrain Sand Type "B" 703.22



Sample Information

Sample No 1881254552 Split Sample
 Date Sampled 02/18/2021 13:05 Resample
 Sampled By Ricky Cloutier
 Type Stockpile
 Method Stockpile

Gradation Results

Date Completed 02/18/2021 13:05 Tested By Ricky Cloutier

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure		
g		2098.10	2021.20		3.7			
Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
1 1/2" (37.5mm)	0.00	0.00	0.0	0.0	100.0		100-100	
1" (25mm)	0.00	0.00	0.0	0.0	100.0		95-100	
3/4" (19mm)	0.00	0.00	0.0	0.0	100.0			
1/2" (12.5mm)	18.60	18.60	0.9	0.9	99.1		75-100	
3/8" (9.5mm)	177.00	195.60	8.4	9.3	90.7			
1/4" (6.3mm)								
#4 (4.75mm)	355.80	551.40	17.0	26.3	73.7		50-100	
#8 (2.36mm)	162.70	714.10	7.8	34.0	66.0			
#16 (1.18mm)								
#20 (.85mm)	550.30	1264.40	26.2	60.3	39.7		15-80	
#30 (.6mm)								
#40 (.425mm)	468.40	1732.80	22.3	82.6	17.4			
#50 (.3mm)	133.50	1866.30	6.4	89.0	11.0		0-15	
#100 (.15mm)	106.00	1972.30	5.1	94.0	6.0			
#200 (75µm)	43.90	2016.20	2.1	96.1	3.9		0-5	
Pan	7.90	2024.10	3.9	100.0	0.0			

Gradation Test Report

Plant 020_00624-Wells (Aggregate)
 Product 7307-Underdrain Sand
 Specification MeDOT Underdrain Sand Type "B" 703.22



Sample Information

Sample No 1218125288 Split Sample
 Date Sampled 03/11/2021 10:10 Resample
 Sampled By Patrick Coyne Test Note
 Type Third Party SMTE Pit
 Method Stockpile

Gradation Results

Date Completed 03/11/2021 10:10 Tested By Patrick Coyne

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure		
g		1154.60	1146.70		0.7			
Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
1 1/2" (37.5mm)	0.00	0.00	0.0	0.0	100.0		100-100	
1" (25mm)	0.00	0.00	0.0	0.0	100.0		95-100	
3/4" (19mm)	0.00	0.00	0.0	0.0	100.0			
1/2" (12.5mm)	0.00	0.00	0.0	0.0	100.0		75-100	
3/8" (9.5mm)	0.00	0.00	0.0	0.0	100.0			
1/4" (6.3mm)	12.00	12.00	1.0	1.0	99.0			
#4 (4.75mm)	55.30	67.30	4.8	5.8	94.2		50-100	
#8 (2.36mm)	112.00	179.30	9.7	15.5	84.5			
#16 (1.18mm)	268.60	447.90	23.3	38.8	61.2			
#20 (.85mm)	191.00	638.90	16.5	55.3	44.7		15-80	
#30 (.6mm)	162.10	801.00	14.0	69.4	30.6			
#40 (.425mm)								
#50 (.3mm)	221.00	1022.00	19.1	88.5	11.5		0-15	
#100 (.15mm)	73.00	1095.00	6.3	94.8	5.2			
#200 (75µm)	25.00	1120.00	2.2	97.0	3.0		0-5	
Pan	26.10	1146.10	3.0	100.0	0.0			

Gradation Test Report

Plant 020_00624-Wells (Aggregate)
 Product 7307-Underdrain Sand
 Specification MeDOT Underdrain Sand Type "B" 703.22



Sample Information

Sample No 451593890
 Date Sampled 03/11/2021 13:46
 Sampled By Patrick Coyne
 Type Third Party
 Method Stockpile

Split Sample
 Resample
 Test Note SMTE Pit

Gradation Results

Date Completed 03/11/2021 13:46
 Tested By Patrick Coyne

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure		
g		1153.50	1149.10		0.4			
Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
1 1/2" (37.5mm)	0.00	0.00	0.0	0.0	100.0		100-100	
1" (25mm)	0.00	0.00	0.0	0.0	100.0		95-100	
3/4" (19mm)	0.00	0.00	0.0	0.0	100.0			
1/2" (12.5mm)	0.00	0.00	0.0	0.0	100.0		75-100	
3/8" (9.5mm)	0.00	0.00	0.0	0.0	100.0			
1/4" (6.3mm)	5.00	5.00	0.4	0.4	99.6			
#4 (4.75mm)	70.00	75.00	6.1	6.5	93.5		50-100	
#8 (2.36mm)	117.80	192.80	10.2	16.7	83.3			
#16 (1.18mm)	264.90	457.70	23.0	39.7	60.3			
#20 (.85mm)	167.30	625.00	14.5	54.2	45.8		15-80	
#30 (.6mm)	193.00	818.00	16.7	70.9	29.1			
#40 (.425mm)								
#50 (.3mm)	213.00	1031.00	18.5	89.4	10.6		0-15	
#100 (.15mm)	68.00	1099.00	5.9	95.3	4.7			
#200 (75µm)	33.00	1132.00	2.9	98.1	1.9		0-5	
Pan	17.00	1149.00	1.9	100.0	0.0			

PROJECT: Orchard Estates **PROJECT NO:** 12755A
CONTRACT NO.: 12755A **ENG/TA:** J. Wallace **DATE RECEIVED:** 7/21/2021
CONTRACTOR: Eastern Excavation, Inc. 81 County Road, Westbrook, ME 04092
SHOP DRAWING NUMBER: 4
DESCRIPTION: Soil Filter Media Proctor & Permeability

NO EXCEPTIONS TAKEN	(X)
MAKE CORRECTIONS INDICATED - SEE REMARKS	()
CONDITIONAL - SEE REMARKS	()
REVISE AND RESUBMIT - SEE REMARKS	()
REJECTED - SEE REMARKS	()
FOR RECORD/INFORMATION ONLY	()

Review is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades.

REMARKS:

- Permeability of the soil was measured to be 1.8 in/hr which is faster than the required 24-hour minimum drain time. However, a valve was installed at the outlet of the underdrain. Therefore, flow within the basin can be controlled to meet the 24-hour minimum time.
- No exceptions taken given the valve is operated to meet the 24-hour minimum drain time.

BY: Jaime Wallace, PE
Wright-Pierce
DATE: 10/18/2021
 Page 1 of 1



Report of Permeability of Granular Soils

ASTM D2434-68(06)

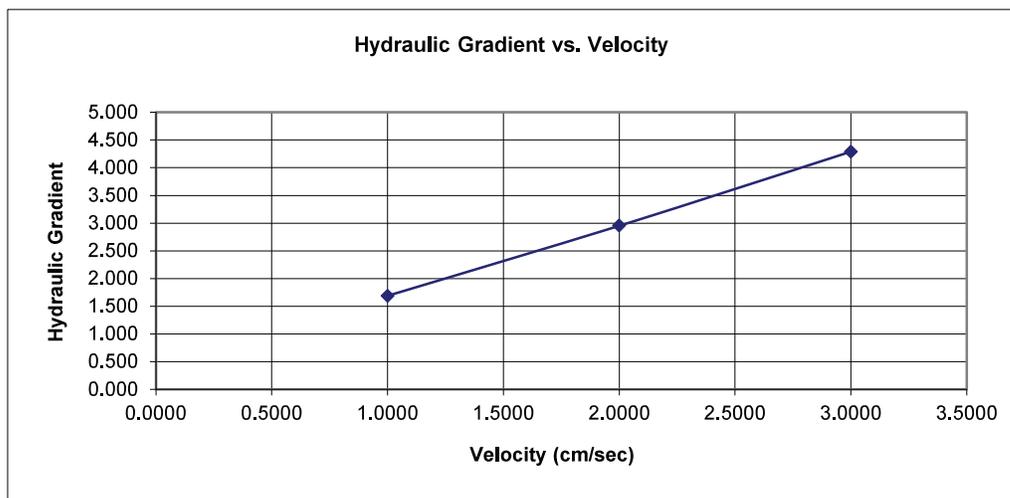
Project Name: Orchard Estates
Project Location: Old Orchard Beach, ME
Client: Eastern Excavation, Inc.
Material Description: Soil Filter Media
Material Source: Shaw Brothers H Pit

Project Number: 21-1063
Lab ID: 27900G
Date Received: 07/08/21
Date Completed: 07/20/21
Tested By: PCS

Average Permeability: 1.29E-03 cm/sec
1.8 in/hr

Project Specification: N/A or Faster

Percent of Proctor: 82.3%



Dry Density: 91.0 pcf

Moisture Content as Compacted: 13.9%

Material Retained on 3/8" sieve: None

Maximum particle size: 0.5"

Comments:

Reviewed By: _____



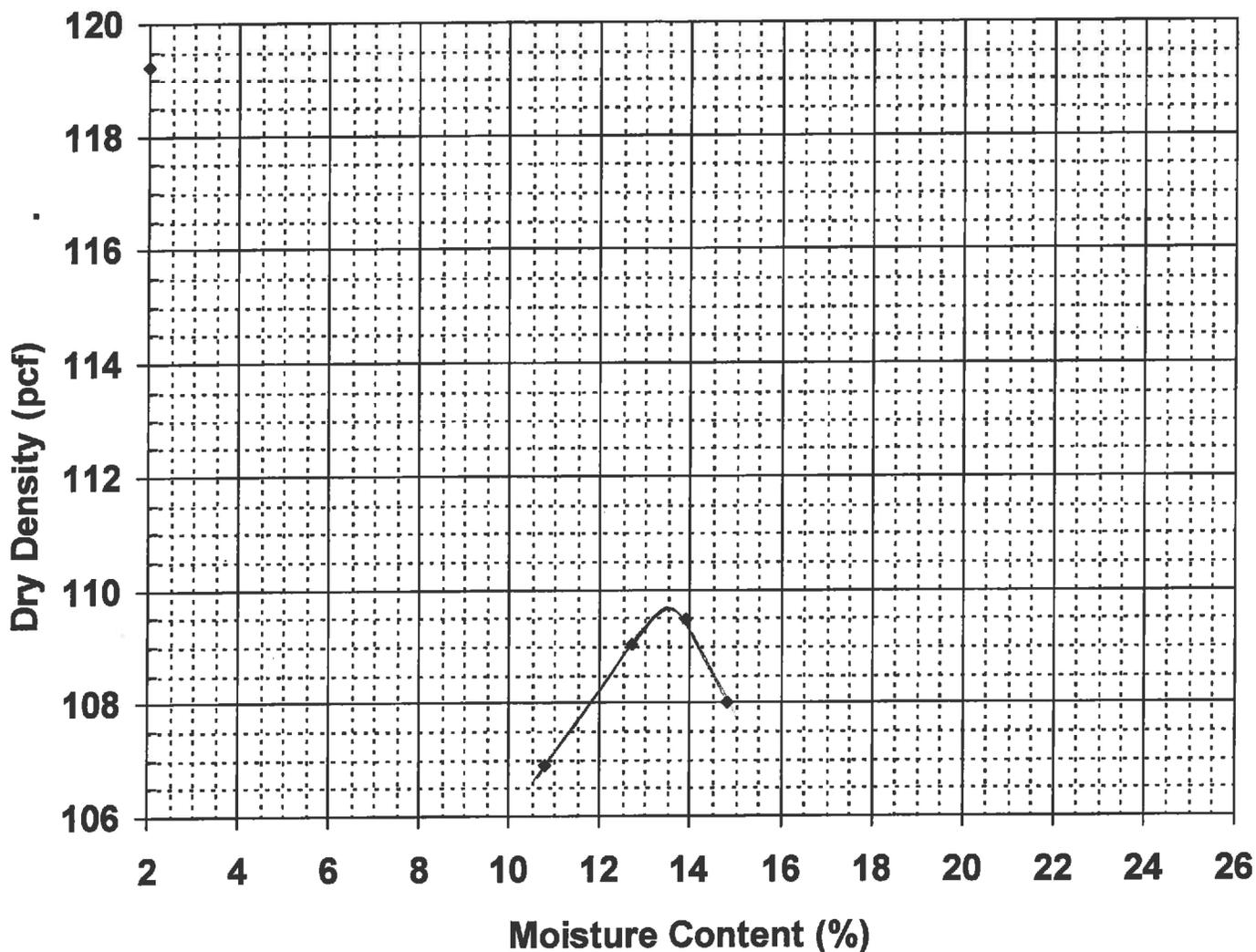
Report of Moisture-Density

Method ASTM D-698 STANDARD Procedure C

Project Name OLD ORCHARD BEACH ME - ORCHARD ESTATES - LABORATORY TESTING
 Client EASTERN EXCAVATION, INC.
 Material Type SOIL FILTER MEDIA
 Material Source SHAW BROTHERS H PIT

Project Number 21-1063
 Lab ID 27900G
 Date Received 7/8/2021
 Date Completed 7/20/2021
 Tested By BLAKE SHELLEY

Moisture-Density Relationship Curve



Maximum Dry Density (pcf) 109.7
 Optimum Moisture Content (%) 13.5
 Percent Oversized 2.3%

Corrected Dry Density (pcf) **110.5**
Corrected Moisture Content (%) **13.2**

Comments

Maintenance Agreement for Post-Construction BMPs

This Maintenance Agreement is made this 17 day of January 2023 by and between VILLAGE AT POND VIEW WOODS ("Applicant") and the Town of Old Orchard Beach, Maine ("Town").

The project name is VILLAGE AT POND VIEW WOODS.
The location is: CASEY LANE, PAISE AVE, BOUCHARD CT., Old Orchard Beach, Maine.
The project's Tax Map and Lot Numbers are Tax Map Lot 103-1-45432

The project is shown on a plan entitled "VILLAGE AT POND VIEW WOODS AKA ORCHARD ESTATES" dated 2/27/2015 and most recently revised on 3/30/2015, approved by the Planning Board on 3/12/2015 and recorded in the York County Registry of Deeds in Plan Book 375 Page 44 (the "Project").

WHEREAS, the approval of the Project includes Post-Construction BMP(s) which require periodic maintenance; and

WHEREAS, in consideration of the approval of the Project, the Town of Old Orchard Beach requires that annual inspections and periodic maintenance be performed on the Post-Construction BMPs;

NOW, THEREFORE, in consideration of the mutual benefits accruing from the approval of the Project by the Town and the agreement of Applicant to maintain the Post-Construction BMPs, the parties hereby agree as follows:

1. Applicant, for itself, and its successors and assigns, agrees to the following:

- (a) To inspect, clean, maintain, and repair the Post-Construction BMPs, which includes, to the extent they exist, parking areas, catch basins, detention basins or ponds, drainage swales, pipes and related structures, at least annually, to prevent the build up and storage of sediment and debris in the system;
- (b) To repair any deficiencies in the Post-Construction BMPs noted during the annual inspection;
- (c) To provide an annual certification on the inspection, maintenance, and repair activities performed annually on the Post-Construction BMPs to the Municipal Enforcement Authority;
- (d) To allow access by Town personnel or the Town's designee for inspecting the Post-Construction BMPs for conformance with these requirements.
- (e) To create a homeowners' association, as applicable, for the purpose of maintaining the Post-Construction BMPs.

2. Upon creation of the homeowners' association, as applicable, the homeowners' association may become responsible for compliance with the terms of this Agreement.

3. The Applicant shall be responsible for this Maintenance Agreement until maintenance responsibility is officially transferred from the Applicant to the homeowner's association or other responsible party. Transfer of responsibility shall be official when an updated Maintenance Agreement is executed and filed with the Town and recorded in the York County Registry of Deeds. Until an updated Maintenance Agreement is recorded, all post-construction maintenance will remain the responsibility of the Applicant.

4. This Agreement shall constitute a covenant running with the land, and Applicant shall reference this Agreement in all deeds to lots and/or units within the Project.

[Signature]
Witness MATTHEW FLAHERTY

[Signature]
By: PETER BOUCHARD
Its: MEMBER

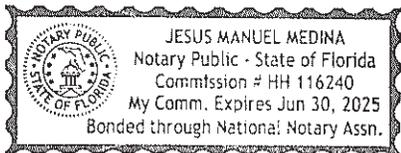
[Signature]
Witness Lauren Lehar

TOWN OF OLD ORCHARD BEACH
By: [Signature]
Its: Associate Town Planner

FLORIDA
STATE OF MAINE
Broward County, ss.

January 17th, 2023

Personally appeared the above-named PETER BOUCHARD, the MEMBER of VILLAGE AT PONDVIEW WOODS, and acknowledged the foregoing Agreement to be said person's free act and deed in said capacity.



Before me [Signature]
Notary Public / Attorney at Law
Jesus M. Medina

Print Name: _____

STATE OF MAINE
_____, ss.

_____, 20__

Personally appeared the above-named _____, the _____ of the Town of Old Orchard Beach, and acknowledged the foregoing Agreement to be said his/her free act and deed in said capacity.

Before me,

Notary Public / Attorney at Law
Print Name: _____