

Final Report of Special Inspections

Project: *Addition and Renovation*

Location: *503 Woodfords Street, Portland, ME*

Owner: *Shalom House, Inc.*

Owner's Address: *106 Gilman Street
Portland, ME 04102*

Architect of Record: *Shields Architecture*

Structural Engineer of Record: *Structural Design Consulting, Inc.
22 Oakmont Drive, Old Orchard Beach, ME 04064*

To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved other than the following:

Comments: *No outstanding issue*

(Attach continuation sheets if required to complete the description of corrections.)

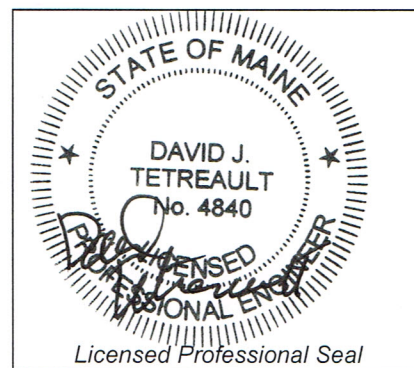
Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

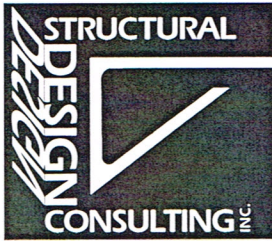
Respectfully submitted,
Special Inspector

David J. Tetreault, P.E.
(Type or print name)

David J. Tetreault
Signature

01/27/14
Date





22 Oakmont Drive
Old Orchard Beach, ME 04064-4121
Phone: (207) 934-8038
Fax: (207) 934-8039

FIELD NOTES

JOB NAME: 503 Woodford Street - Shalom House
JOB NO.: 13005
DATE OF VISIT: Jul 01, 2013
TIME: 10:00 A.M.
CLIENT: Shalom House
OBSERVERS: David Tetreault, SDC

Demolition of interior finishes is substantially completed exposing much of the existing framing.

Following are observations and recommendations for repair and reinforcement of existing framing:

Several floor joists have been cut for installation of plumbing or other reasons. All floor joists that have been cutoff, notched deeper than 1" at the top or bottom or have holes with diameter larger than 3" must be reinforced with a new 2x8. Joists that have been cutoff are to have full span reinforcement. Joists that have been notched or penetrated with a hole shall be reinforced 36" beyond the compromised location. Fasten the reinforcement section to the existing joist with (3) 10d nails spaced at 12".

Second floor joists at both ends of the existing interior stair opening must be reinforced with (2) 2x8. Fasten the reinforcement joist to the existing joist as noted above.

The existing (3)2x10 second floor beam east of the existing interior stair is acceptable. A new beam in that location is not required.

The new (3)1 $\frac{3}{4}$ "x11 $\frac{1}{4}$ " LVL scheduled to be installed at the second floor in the south exterior wall must be shifted south to align with the south face of the exterior wall above.

The east and west edges of the second floor dormers are supported by walls that are to be removed. There is a single 2x6 rafter above both of the existing walls. Both of these rafters must be reinforced with (2)1 $\frac{3}{4}$ "x5 $\frac{1}{2}$ " LVLs.

SIGNATURE: David Tetreault



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FIELD NOTES

JOB NAME: 503 Woodford Street - Shalom House
JOB NO.: 13005
DATE OF VISIT: Jul 16, 2013
TIME: 11:30 A.M.
CLIENT: Shalom House
OBSERVERS: David Tetreault, SDC

The foundation at the rear addition has been backfilled. Pressure treated plates were being installed.

Backfill could not be placed at an angle as steep as shown on the contract documents. A one-sided pressure treated wood form was installed adjacent to the existing brick foundation. The form will be left in place after concrete has been placed. This method is acceptable. Waterproofing was installed on the outside face of the brick foundation. Concrete has been scheduled for tomorrow.

No exceptions taken.

SIGNATURE: _____

David Tetreault



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FIELD NOTES

JOB NAME: 503 Woodford Street - Shalom House
JOB NO.: 13005
DATE OF VISIT: Sep 04, 2013
TIME: 8:00 A.M.
CLIENT: Shalom House
OBSERVERS: David Tetreault, SDC

Framing is substantially completed. Rafter and floor joists reinforcement have been installed as indicated on Contract Documents and previous inspections.

All hardware has been installed except for three missing joist hangers at the 2nd floor framing over corridor 106. The contractor was made aware of the missing hangers and will have them installed.

The header at the dormer window was installed 2½" too low. The header consists of (2)2x8 with a ½" plywood spacer. The header was notched 2½" at the bottom to adjust for the misplacement. Subsequent to this site visit I checked the capacity of the notched header and found that it is structurally acceptable.

No other issue or concern was noted.

SIGNATURE: _____

David Tetreault

Report of Field Density

ASTM D6938

Project: **PORTLAND ME - SHALOM HOUSE ADDITION - CONSTRUCTION MATERIALS TESTING SERVICES**

Project Number: **13-0691**

Client: **THE THAXTER COMPANY**

Field Density Test Results

| Test # | Test Date | Tech | Test Location | Elev Feet | Test Depth | Lab ID | Dry Density | Moisture Content Percent | Compaction Percent | Required Compaction |
|--------|-----------|------|--|-----------|------------|--------|-------------|--------------------------|--------------------|---------------------|
| 1 | 7/11/2013 | CLC | 15' FROM W CORNER OF ADDITON NEXT TO FOOTING | 5' | 12 | 16957G | 116.4 | 12.3 | 95.0 | 95 |
| 2 | 7/11/2013 | CLC | 20' FROM W CORNER OF ADDITON NEXT TO FOOTING | 5' | 8 | 16957G | 117.6 | 10.7 | 96.0 | 95 |

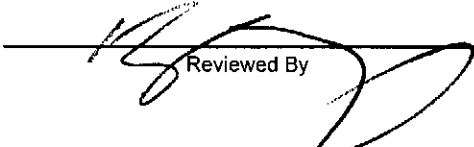
Laboratory Compaction Test Reference

| Lab ID | Date Received | Material Source | Material Type | Method | Max Dry Density PCF | Optimum Moisture Content (%) | Comments |
|--------|---------------|------------------|-----------------|------------------------|---------------------|------------------------------|----------|
| 16957G | 7/11/2013 | On Site Material | In-Place Gravel | ASTM D-1557 Modified C | 122.5 | 12.6 | |

Elevation Notes:

ALL ELEVATIONS ARE BELOW FINISH GRADE

Comments:

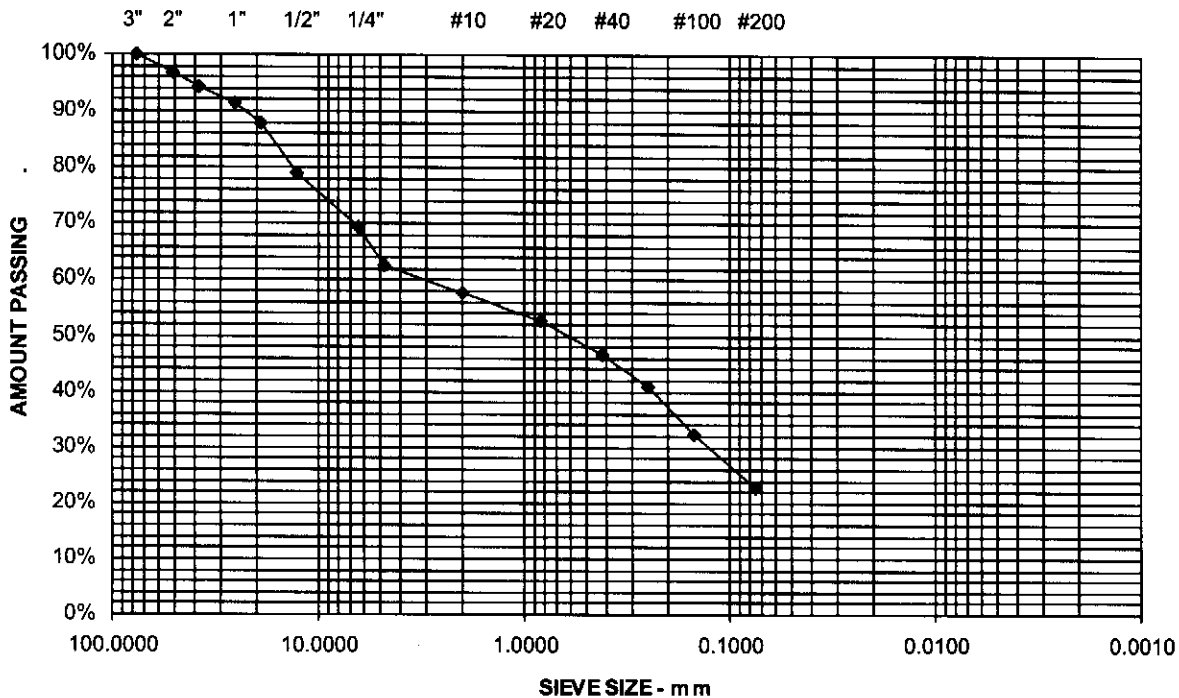


 Reviewed By

Project Name PORTLAND ME - SHALOM HOUSE ADDITION - CONSTRUCTION
MATERIALS TESTING SERVICES
Client THE THAXTER COMPANY
Material Type GRAVEL
Material Source ON SITE MATERIAL

Project Number 13-0691
Lab ID 16957G
Date Received 7/11/2013
Date Completed 7/15/2013
Tested By JUSTIN BISSON

| <u>STANDARD</u> <u>DESIGNATION (mm/μm)</u> | <u>SIEVE SIZE</u> | <u>AMOUNT PASSING (%)</u> | <u>SPECIFICATIONS (%)</u> |
|---|-------------------|---------------------------|---------------------------|
| 150 mm | 6" | 100 | |
| 125 mm | 5" | 100 | |
| 100 mm | 4" | 100 | |
| 75 mm | 3" | 100 | |
| 50 mm | 2" | 97 | |
| 38.1 mm | 1-1/2" | 94 | |
| 25.0 mm | 1" | 91 | |
| 19.0 mm | 3/4" | 88 | |
| 12.5 mm | 1/2" | 79 | |
| 6.3 mm | 1/4" | 69 | |
| 4.75 mm | No. 4 | 63 | |
| 2.00 mm | No. 10 | 58 | |
| 850 μm | No. 20 | 53 | |
| 425 μm | No. 40 | 47 | |
| 250 μm | No. 60 | 41 | |
| 150 μm | No. 100 | 32 | |
| 75 μm | No. 200 | 22.7 | |



Comments


Roger E. Domingo

Report of Moisture-Density

Method **ASTM D-1557 MODIFIED** Procedure **C**

Project Name **PORTLAND ME - SHALOM HOUSE ADDITION -
CONSTRUCTION MATERIALS TESTING SERVICES**

Client **THE THAXTER COMPANY**

Material Type **GRAVEL**

Material Source **ON SITE MATERIAL**

Project Number **13-0691**

Lab ID **16957G**

Date Received **7/11/2013**

Date Completed **7/15/2013**

Tested By **RYAN SWEETSER**

Moisture-Density Relationship Curve



Maximum Dry Density (pcf) **119**

Optimum Moisture Content (%) **14**

Percent Oversized **11.6%**

Corrected Dry Density (pcf) **122.5**

Corrected Moisture Content (%) **12.6**

Comments


Roger E. Domingo