

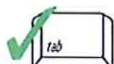


WPA Form 8A – Request for Certificate of Compliance
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by DEP

A. Project Information

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Upon completion of the work authorized in an Order of Conditions, the property owner must request a Certificate of Compliance from the issuing authority stating that the work or portion of the work has been satisfactorily completed.

1. This request is being made by:
 Jake Panter - Kimley-Horn and Associates, Inc.

 Name
 404 Wyman Street - Suite 385

 Mailing Address
 Waltham

 City/Town
 630-487-3432

 Phone Number

	MA	02451
	State	Zip Code

2. This request is in reference to work regulated by a final Order of Conditions issued to:
 Jake Panter - Kimley-Horn and Associates, Inc.

 Applicant
 12/08/2020

 Dated

	300-1083
	DEP File Number

3. The project site is located at:
 100 Charlton Road

 Street Address
 2

 Assessors Map/Plat Number

	Sturbridge
	City/Town
	100
	Parcel/Lot Number

4. The final Order of Conditions was recorded at the Registry of Deeds for:
 Mark Kroeger - Vereit MT Sturbridge MA, LLC (CIM GROUP)

 Property Owner (if different)
 Worcester

 County

	38874	81
	Book	Page

 Certificate (if registered land)

5. This request is for certification that (check one):
 - the work regulated by the above-referenced Order of Conditions has been satisfactorily completed.
 - the following portions of the work regulated by the above-referenced Order of Conditions have been satisfactorily completed (use additional paper if necessary).

 - the above-referenced Order of Conditions has lapsed and is therefore no longer valid, and the work regulated by it was never started.



WPA Form 8A – Request for Certificate of Compliance

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by DEP

A. Project Information (cont.)

6. Did the Order of Conditions for this project, or the portion of the project subject to this request, contain an approval of any plans stamped by a registered professional engineer, architect, landscape architect, or land surveyor?

Yes

If yes, attach a written statement by such a professional certifying substantial compliance with the plans and describing what deviation, if any, exists from the plans approved in the Order.

No

B. Submittal Requirements

Requests for Certificates of Compliance should be directed to the issuing authority that issued the final Order of Conditions (OOC). If the project received an OOC from the Conservation Commission, submit this request to that Commission. If the project was issued a Superseding Order of Conditions or was the subject of an Adjudicatory Hearing Final Decision, submit this request to the appropriate DEP Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html>).



December 20, 2023

**Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Wetlands**

**RE: *The Center at Hobbs Brook – 100 Charlton Road, Sturbridge, MA 01566
GeoStabilization International Retaining Wall Assessment***

To whom it may concern:

Pursuant to your request, Kimley-Horn and Associates, Inc. conducted three annual limited visual assessments at the Center at Hobbs Brook project location to provide third-party general conformance review between the existing conditions and the retaining wall repair design and documents by GeoStabilization International. As part of this project, Kimley-Horn was provided the following documents that were signed and sealed by Michael W Laney with GeoStabilization International.

Firm	Document Title / Discipline	Drawing Date
GeoStabilization International	As-Built Retaining Wall Repair Plans	February 12, 2021

**The above documents were provided by the Client and can be made available upon request.*

Kimley-Horn conducted limited site visit observations over a three-year period (10-05-2021, 08-24-2022, 08-11-2023) and documented field notes and photographs per the WPA Form 5 – Order of Conditions "Wall Monitoring #50".

Kimley-Horn noted the below observations during the first annual assessment which remained consistent through the second and third assessments. Kimley-Horn reviewed these observations with GeoStabilization International. Kimley-Horn's recommendations based on the observations and discussions with GeoStabilization International can be found below in blue:

- Two blocks were observed to have displaced ~9 inches.
 - Per GeoStabilization, this was an existing condition of the retaining wall. Photo evidence was provided to Kimley-Horn. No further displacement of these blocks was observed in the follow-up assessments. Recommendation is to monitor the blocks and the overall retaining wall on regular intervals to verify there is no further displacement of blocks.
- Cracking was observed with widths as large as 1/4 inch.
 - The retaining wall concrete spalls and delamination shall be repaired with use of a polymer modified patching mortar and an epoxy-modified cementitious bonding and anticorrosion agent. The retaining wall medium vertical cracks (>1mm) shall be repaired through use of epoxy injection per the manufacturer's recommendations.
- Vegetation growth was observed in multiple areas of the wall, primarily on the west side.
 - Vegetation growth shall be regularly removed from RTW block faces and between RTW blocks.

- A couple minor areas where joint sealant was observed to have failed.
 - Per GeoStabilization, there is no joint sealant between the retaining wall blocks. The material that was mistaken for joint sealant is grout leftover from the SuperNail injections. This condition shall be monitored in future inspections.
- Corrosion was observed at the steel of various SuperNail locations within the hollow nail and around the washers/nuts.
 - Per GeoStabilization, the SuperNails are designed with sacrificial steel loss due to corrosion over a 75-year design life based on FHWA Geotechnical Engineering Circular No. 7.
- Interior grout appeared to be missing from a few SuperNails
 - Per GeoStabilization, grout is injected into the head of the soil nail as it's installed at an approximate 15-degree downward angle from horizontal. When the grout flow is shut off and the drill is detached from the head of the soil nail the level of grout falls below what is visible at the head of the nail. Grout inside of the hollow bar soil nail is not doing any work. The grout surrounding the outside of the bar bonds with the soil and provides the necessary bond strength. No Current Recommendation.
- Minor corrosion was observed at various drain locations.
 - Corrosion shall be monitored at regular interval and addressed if found to be preventing proper draining.
- RTW general condition shall be monitored periodically to ensure no further shifts are occurring, wall has not been vandalized, and structural elements are in serviceable conditions.

After review of Kimley-Horn's baseline findings with GeoStablization International, it is Kimley-Horn's opinion that, at the time of the August 11th, 2023 site visit, the retaining wall repairs were observed to be performing per GeoStablization's design intent. The property owner should hire a reputable contractor to complete the recommended services listed above to maintain functional performance of the wall.

The limited on-site observations were made by Kimley-Horn staff, and no testing was conducted to confirm any assumptions. It shall remain the responsibility of the retaining wall owner to ensure that the retaining wall is and remains in good condition. Kimley-Horn makes no warranties, expressed or implied in connection with this letter and disclaims any liability arising from original design, material, fabrication, and erection deficiencies or the condition of the building structure.

Please contact me at (770) 545-6102 or Nilay.Patel@kimley-horn.com should you have any questions.

Respectfully Submitted,
KIMLEY-HORN AND ASSOCIATES, INC.

Nilay Patel, P.E.
Structural Engineer