MICHAEL
VAN
VALKENBURGH
ASSOCIATES
INC

30 January 2026

Patrick Linahan
Genesee County Parks
5045 E. Stanley Road
Flint, Michigan 48506

Re: **MVVA #21021.01 Chevy Commons Play Gardens**
Additional Services Request 1 (ASR #01)

Dear Patrick,

We are submitting this add service for an additional geotechnical effort, environmental testing and consultation for the Chevy Commons Play Gardens. This add service will cover the below described scope by our environmental and geotechnical engineer NTH Consultants (NTH):

Task 1 – Geotechnical Services

The existing subsurface concrete was deeper and more extensive than originally anticipated in the Geotech investigation proposal, resulting in additional drilling footage and delay time. Because of these conditions, nine (9) additional borings were attempted, and an additional 52.6 lineal feet of drilling was completed for both the original boring locations as well as to locate the abandoned service tunnel at the project site. This additional effort resulted in total drilling footage of 202.6 LF instead of the 150 LF which was envisioned in the original proposal and also required 2 additional days of field time (4 days versus 2 days budgeted) to complete the investigation.

The effort within this task includes the following:

- For the grade raise borings, 3 test borings were planned as part of our original scope (TB-01 through TB-03) for a total soil drilling lineal footage of 150 LF (50 LF each test boring). The information provided to NTH during the initial phases of this project indicates that a concrete slab was left in place within the middle portion of the site, and the surrounding area was covered with thinner pavement sections that were also left in place. As such, NTH positioned the boring location outside the limit of the former thicker concrete slab footprint and included some fees for drilling through minor concrete debris. However, significant, and thick concrete remnants were encountered at multiple boring locations, which resulted in drilling through solid concrete

elements or offsetting a few boring locations multiple times as previously discussed. As such, at the location of TB-01 significant concrete debris was encountered during drilling requiring the bore hole to be relocated two times. Total drilling footage performed was 115.8 feet with 3.3 feet of drilling through concrete remnants.

- For the restroom area, no test borings were originally planned for the restroom building. As the original project scope indicates that the precise location of the planned restroom had not been determined, and the preliminary site plan provided to NTH indicated that the restroom was outside the project scope at that time. Later in 2025, the location of the restroom was selected, and NTH was requested to include additional soil borings to be completed for the proposed restroom building. As such, 2 test borings were added (TB-4 and TB-05) for a total soil drilling lineal footage of 50 LF (25 LF each test boring). At the location of TB-05, significant concrete obstructions were encountered, requiring the boring to be relocated two times. Total drilling footage performed was 77.5 feet, with 3 feet of drilling through concrete remnants, which required additional time and effort for drilling.

- For the abandoned service tunnel, no test borings were originally planned. MVVA and GCP requested additional soil borings near this tunnel to better define its exact location and understand its conditions. As such, 3 test borings were performed (TB-06 through TB-08) with a total drilling lineal footage of 9.3 LF with 1.5 of drilling through concrete remnants, which required additional time and effort for drilling.

Task 2 – Soil Gas Investigation (SGI)

Due to the presence of volatile contaminants detected during previous environmental investigations and the visual evidence of contamination noted during the geotechnical test borings, there is a potential for soil vapor to migrate into the building and result in unacceptable indoor air concentrations. As such, an SGI is proposed to evaluate if soil vapor concentrations beneath the proposed building location exceed EGLE screening levels that would require mitigation. The SGI will comprise the following tasks:

- Observe drilling of two shallow (6 to 8 feet deep) geoprobe borings inside the perimeter of the proposed restroom building. The borings will be converted into temporary wells for sampling soil gas, if feasible or two additional borings will be drilled to install these wells. The drilling of borings and installation of the soil gas well will be conducted by our subcontractor.

- Collect one soil sample from each boring from the bottom of the proposed building foundation, which we understand be mat foundation. The soil samples will be analyzed for volatile organic compounds (VOCs), polynuclear aromatics (PNAs), and 10 Michigan metals. Sample analysis will be conducted by our subcontracted laboratory.

- Collect one soil gas sample from each well following proper equilibrium procedures.

- Analyze the soil samples for VOCs and PNAs. Sample analysis will be conducted by our subcontracted laboratory.

- Review and evaluate the information compiled during this study and prepare a summary report with our evaluations and opinions. The results of the investigation may indicate that a soil vapor mitigation system is warranted for the building, that no system is required, or that more investigation is needed to make a final determination.

Task 3 – As-Needed Consulting Services and OM&M Plan

This task will include following items:

- Continue to provide as-needed consulting services including attending meeting regarding the vapor mitigation system (VMS) that is currently being designed by Intoto Studio, the project architects. We will utilize EGLE's published VMS guidance.

- If a VMS with vents installed within the building is constructed, it will require periodic inspection and maintenance. To document those requirements for building operations staff, NTH will prepare an operations maintenance and monitoring (OM&M) plan. The contents of the plan will be based upon the actual as-built system and include forms for documentation of findings and repairs as appropriate. Because the OM&M plan must be based on the system that is actually installed, it cannot be prepared until after construction. This task does not include observations or inspections during construction, updates to the facility's due care plan, or submissions to EGLE.

Based on the additional scope of services work listed above, we are requesting a budget increase as per the fee breakdown shown below.

Task	Fee
Additional Geotechnical Services	$9,000.00
Soil Gas Investigation	$9,500.00
As-needed Consulting and O&M Plan	$5,500.00
Total Estimated Fee	**$24,000.00**

Please reach out if there are any questions on the above outlined services and fees.

Sincerely,

John Ohly
MVVA

ACCEPTED FOR: Genessee County Parks

SIGNATURE: _____

PRINT NAME: _____

TITLE: _____

DATE: _____