



Nabholz Construction - Lenexa
17300 W 116th Street
Lenexa, Kansas 66219
P: +19133936500

Project: 08-25-3311 HCA LSMC CAMPUS EXPANSION
2100 SE BLUE PARKWAY
LEE'S SUMMIT, Missouri 64063

RFI #014: Struct. - Bridge Shallow Foundations Memo

Status	Closed on 05/23/25		
To	Luke Arbanas (Nabholz Construction Corporation)	From	Luke Arbanas (Nabholz Construction Corporation)
Date Initiated	May 12, 2025	Due Date	May 21, 2025
Location		Project Stage	Pre-Construction
Cost Impact	TBD	Schedule Impact	No
Spec Section	033100 - STRUCTURAL CONCRETE		
Drawing Number	S011	Reference	
Linked Drawings			
Copies To	Lelan Olsen (Nabholz Construction Corporation)		
Priority	Low		
Constraint			

Activity

Question

Question from Luke Arbanas Nabholz Construction Corporation on Monday, May 12, 2025 at 03:29 PM CDT

This RFI is being sent to confirm prior communication between design team and Nabholz. Please reference attached in regards to below.

Bridge Shallow Foundations Memorandum (Note D.1 on S011 Dated May 14, 2024), could the Design Team direct Nabholz to where it might be in the Construction Documents?

Attachments

[RFI 014 BKUP.pdf](#)

Official Response

Response from Luke Arbanas Nabholz Construction Corporation on Friday, May 23, 2025 at 01:51 PM CDT

Memorandum has been added to the specifications and will be issued with the upcoming ASI-001. - Matt McDaniel

Attachments

[RFI 14 hca_lsmc_campus_expansion-rfi#014-struct._-bridge_shallow_foundations_memo-2025.05.12 DGL Response.pdf](#)

All Replies

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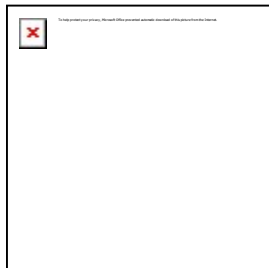
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Matt.....Please add this to our spec folder and spec index for future reference as part of the project scope.

Thanks!



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SENIOR PROJECT MANAGER

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Transforming healthcare delivery through design

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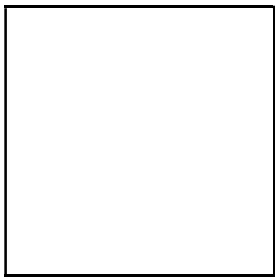
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Matt,

Note D.1 on S011, was brought to my attention this afternoon (see snip below). I apologize if I missed it, but in performing a quick search of the documents, I could not find the noted Bridge Shallow Foundations Memorandum (Dated May 14, 2024) could the Design Team direct me to where it might be in the Construction Documents?

D. FOUNDATION

1. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY ALPHA-OMEGA GEOTECH (REPORT NUMBER AOG 240229 E DATED APRIL 30, 2024), AND THE BRIDGE SHALLOW FOUNDATIONS MEMORANDUM (DATED MAY 14, 2024). STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.

Thanks,



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Alpha-Omega Geotech, Inc.

1701 State Avenue

Kansas City, KS 66102

Office: (913) 371-0000 / Fax: (913) 371-6710

Website: www.aogeotech.com



BRIDGE SHALLOW FOUNDATIONS MEMORANDUM

Project:	Lee's Summit Medical Center Expansion [A-OG Project 240229 E]
Location:	2100 SE Blue Parkway Lee's Summit, Missouri
Client:	HCA PSA c/o Stanley D. Lindsey and Associates, Ltd.
Date:	May 14, 2024
Prepared By:	Garic Abendroth, P.E. GAbendroth@AOGeotech.com Phone: 913-371-0000

The purpose of this memorandum is to summarize our conversation and recommendations for use of shallow spread footings to support the new pedestrian bridge.

It is understood that the bridge design will have columns spaced at 20 to 40 ft. with a maximum load of about 36k, with two piers at each support. The original report gave drilled pier recommendations with the assumption the foundation loads would be much higher. Given the anticipated 36k loads (max) we recommend the use of shallow spread footings be used to support the bridge.

Footings should be placed at least 3 feet below final exterior grade to provide adequate frost protection and place them in a more stable moisture environment. Provided all design and inspection recommendations as given in geotechnical report are closely followed and good construction practices are exercised, it is recommended an allowable bearing value of 2,000 psf may be used for design purposes to proportion the spread footings. These allowable bearing capacity values, which are based on shear strength alone and not on settlement, incorporate a factor of safety of 3.0. **The actual bearing capacity of all subgrades supporting the foundation elements must be confirmed by a representative of Alpha-Omega Geotech, Inc. as the excavations for the load-bearing footings are completed and prior to placement of reinforcing steel and concrete.** For transient loading conditions, such as unsustained wind and earthquake, a 33 percent increase may be applied to the above-referenced allowable bearing capacity values.

Bridge Shallow Foundations Memorandum

Lee's Summit medical Center
A-OG 240229 E

May 14, 2024
Page 2 of 2

Uniform bearing conditions should be provided beneath the footings to minimize differential settlements. If any soft or otherwise unsuitable material is encountered in the footing excavations, it will have to be removed and replaced with an engineered controlled fill (MoDOT Type 5). Recommendations for the over-excavation and replacement with engineered controlled fill can be made when the footing excavations are inspected during construction, if needed.

A representative of Alpha-Omega Geotech, Inc. should inspect all of the footing excavations to verify that uniform and competent bearing material is present beneath all of the foundation elements prior to the placement of any reinforcing steel and concrete.

For spread footings designed and constructed in accordance with this report, it is anticipated that settlements will be limited to 0.75 inches of differential and 1.0 inches in total.

We truly appreciate the opportunity to work with the project team throughout the design process. Please let us know if there are any questions.

Sincerely,
ALPHA-OMEGA GEOTECH, INC.

Garic Abendroth

Garic Abendroth, P.E.
Engineering Director



Luke Arbanas

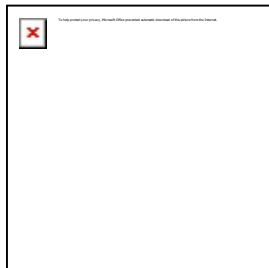
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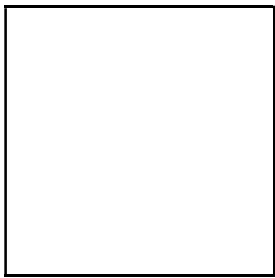
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