From:	Chad Roberson
To:	David Berry; John Mitchell
Cc:	Joel Helms; Chris Otahal
Subject:	FW: Emergency Services HQ unsuitable soil narrative - Amec response
Date:	Thursday, December 14, 2017 5:14:35 PM
Attachments:	image002.png

David,
I want to make sure you guys are comfortable with this. There is risk associated with doing this. There could be settlement and potentially cracking of the slab or paving areas.

Thx
Chad

Chad Roberson AIA, LEED AP BD+C
Principal

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From: Quigley, Timothy P [mailto:timothy.quigley@woodplc.com]
Sent: Thursday, December 14, 2017 4:58 PM
To: Joel Helms <JHelms@ClarkNexsen.com>; jill.heimburg@woodplc.com
Cc: David Berry <dberry@hendersoncountync.org>; Chad Roberson <CRoberson@ClarkNexsen.com>; 'Land, Matthew' <matthew.land@woodplc.com>
Subject: RE: Emergency Services HQ unsuitable soil narrative - Amec response

Joel,

We would want to first evaluate the unsuitable subgrade before placement of geogrid and stone but typically we would recommend a layer of bi-axial geogrid (equivalent to Tensar BX 1200) be placed over the entire area of unsuitable subgrade. Next 4 to 6 inches of loose ABC stone should be placed on top of the geogrid followed by suitable structural fill.

This option would take on some more potential risk for the parking and building area as you are still leaving the unsuitable soils in place.

Thanks,

Tim

Timothy P. Quigley, P.E.

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From: Joel Helms [mailto:JHelms@ClarkNexsen.com]
Sent: Thursday, December 14, 2017 4:40 PM
To: Quigley, Timothy P <timothy.quigley@woodplc.com>; jill.heimburg@woodplc.com
Cc: David Berry <dberry@hendersoncountync.org>; Chad Roberson <CRoberson@ClarkNexsen.com>
Subject: RE: Emergency Services HQ unsuitable soil narrative - Amec response

Tim,
Can you give us a conservative idea on how much geo-grid and stone would be needed? Trying to get pricing info on which approach to take.
Thanks again.

Joel Helms AIA, GGP, LEED AP BD+C
Senior Architect | Associate Principal

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From: Quigley, Timothy P [mailto:timothy.quigley@woodplc.com]
Sent: Thursday, December 14, 2017 4:29 PM
To: Joel Helms <JHelms@ClarkNexsen.com>; jill.heimburg@woodplc.com
Cc: David Berry <dberry@hendersoncountync.org>; Chad Roberson <CRoberson@ClarkNexsen.com>
Subject: RE: Emergency Services HQ unsuitable soil narrative - Amec response

Hi Joel/David,

Based on our discussion earlier today, within the Storage Building area we would recommend that the soil they have placed from the wet cut soils within the sediment basin area be either dried out and recompacted, which will be difficult this time of year, or removed and replaced with a drier,

sandier material. Given that is under a building and a parking area that will receive heavier traffic it will be important to have a stable subgrade.

We think this would be the best approach but can evaluate if it is decided to try and "bridge" over it with soil or geogrid but I think that with the problem area easily accessible, and what will be going over it, removing and replacing would be the best option at this point for the long term performance of the area.

Please let us know if you have any questions.

Thanks,

Tim

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From: Joel Helms [mailto:JHelms@ClarkNexsen.com]
Sent: Thursday, December 14, 2017 4:15 PM
To: Quigley, Timothy P <Timothy.Quigley@amecfw.com>; jill.heimburg@woodplc.com
Cc: David Berry <dberry@hendersoncountync.org>; Chad Roberson <CRoberson@ClarkNexsen.com>
Subject: Emergency Services HQ unsuitable soil narrative

Tim and Jill,
David has a meeting on-site in the morning and needs your recommendation on the unsuitable soils at the storage building prior to that meeting.
Please copy all with your recommendations prior to EOB today.
Thanks for your help in pushing this out.

Joel Helms AIA, GGP, LEED AP BD+C
Senior Architect | Associate Principal

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