

*City of Alexandria, Virginia*

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**MEMORANDUM TO INDUSTRY NO. 01-13**

DATE: MARCH 8, 2013

TO: HOMEOWNERS, CONTRACTORS, DEVELOPERS AND DESIGN PROFESSIONALS

FROM: EMILY A. BAKER, P.E., CITY ENGINEER *EAB*  
TRANSPORTATION & ENVIRONMENTAL SERVICES

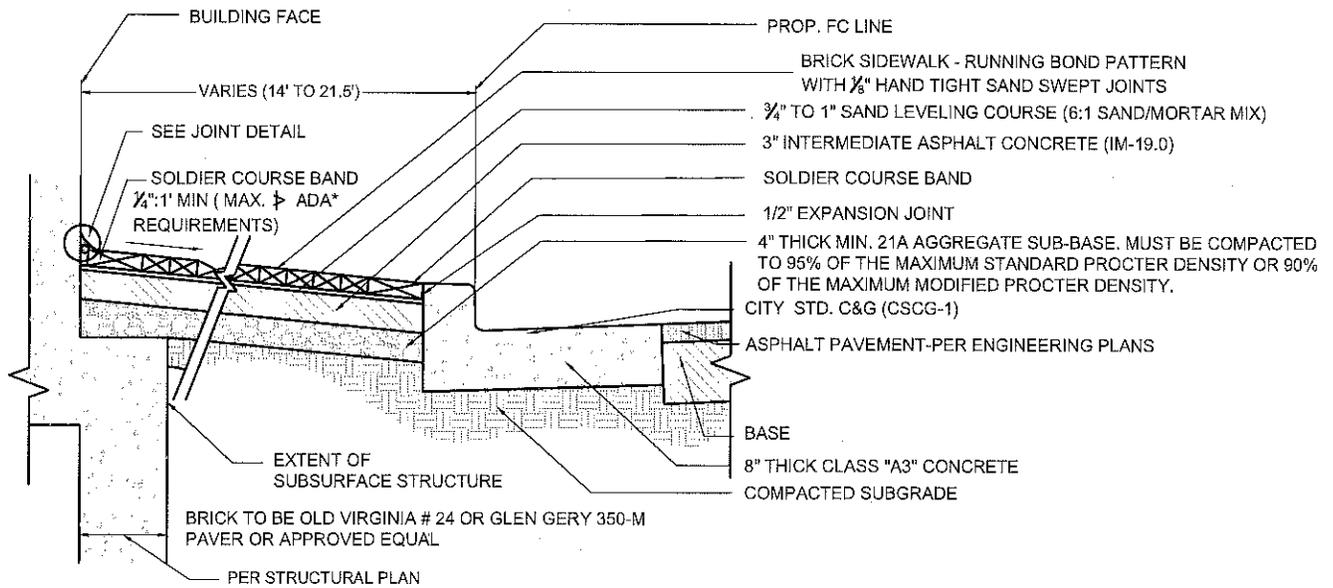
SUBJECT: STANDARD DETAIL FOR BRICK SIDEWALK AT SUBSURFACE STRUCTURE.

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It has been observed that the brick sidewalks in Carlyle development have failed due to unequal settlement where the brick sidewalks are constructed adjacent to the building face and over subsurface structures/ garages. The main reason for the failure of these sidewalks is attributed to the rain water seeping down the wall surface, then under the sidewalks, washing the fines off, and creating voids beneath the sidewalk. The attached detail CSSW-2 is developed to mitigate this problem. Effective immediately, the sidewalk /building face joint and sidewalk shall be installed in accordance with this standard detail.

If you have any questions or require additional information, please contact Dr. S.P. Singh, P.E. at 703-746-4062.

Attachment: Brick Sidewalk at Subsurface Structure Detail: CSSW-2



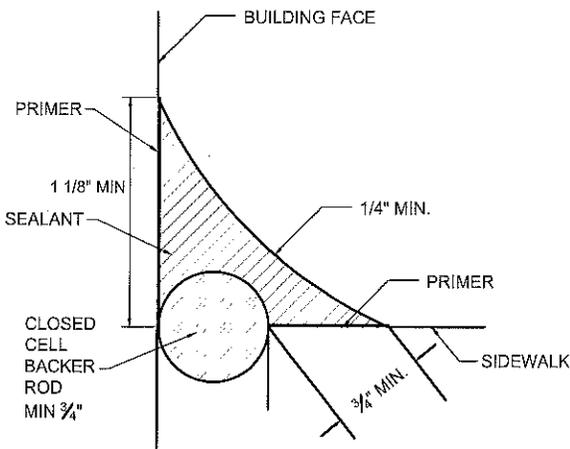
\*ADA: AMERICAN WITH DISABILITY ACT.

**NOTES:**

1. ALL STRUCTURAL ITEMS TO CONFORM TO 2009 IBC REQUIREMENTS.
2. PRIOR TO CONSTRUCTION ALL STRUCTURAL CROSS SECTIONS SHALL BE REVIEWED BY A QUALIFIED STRUCTURAL AND/OR GEOTECHNICAL ENGINEER, AND MODIFIED AS NECESSARY BASED ON THE SITE SPECIFIC GEOTECHNICAL REPORT.

**NOTES:**

1. SEALANT SHALL BE ASTM C920 (CURRENT STANDARD), TYPE M, GRADE NS, CLASS 100%, USE T1.
2. CONTRACTOR SHALL CLEAN THE SUBSTRATES FREE OF OIL AND WATER WITH COMPRESSED AIR, OR BRUSHING, SAND BLASTING, GRINDING, OR SAWING AND APPLY PRIMER PER THE RECOMMENDATIONS OF THE SEALANT'S MANUFACTURER.
3. SEALANT MUST BE INSTALLED PER ASTM C1193, AS MODIFIED.



**JOINT DETAIL**  
(REF.: GDBEC)

(N.T.S.)

<b>BRICK SIDEWALK AT SUBSURFACE STRUCTURE</b>		<i>March 8, 2015</i>
		DATE
<i>[Signature]</i>	3/8/13	DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
APPROVED	DATE	ALEXANDRIA VIRGINIA
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