Form 4.3-3 Infiltration LID BMP - including underground BMPs (DA)			
¹ Remaining LID DCV not met by site design HSC BMP (ft ³): V _{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30			
BMP Type Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP) - Use additional forms for more BMPs	DA DMA ВМР Туре	DA DMA BMP Type	DA DMA BMP Type (Use additional forms for more BMPs)
2 Infiltration rate of underlying soils (in/hr) See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods			
3 Infiltration safety factor See TGD Section 5.4.2 and Appendix D			
⁴ Design percolation rate (in/hr) $P_{design} = Item 2 / Item 3$			
⁵ Ponded water drawdown time (hr) <i>Copy Item 6 in Form 4.2-1</i>			
⁶ Maximum ponding depth (ft) <i>BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details</i>			
7 Ponding Depth (ft) d_{BMP} = Minimum of (1/12*Item 4*Item 5) or Item 6			
⁸ Infiltrating surface area, SA_{BMP} (ft ²) the lesser of the area needed for infiltration of full DCV or minimum space requirements from Table 5.7 of the TGD for WQMP			
9 Amended soil depth, <i>d_{media}</i> (ft) <i>Only included in certain BMP types,</i> see Table 5-4 in the TGD for WQMP for reference to BMP design details			
10 Amended soil porosity			
¹¹ Gravel depth, d_{media} (ft) Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details			
12 Gravel porosity			
13 Duration of storm as basin is filling (hrs) <i>Typical</i> ~ 3hrs			
¹⁴ Above Ground Retention Volume (ft ³) V _{retention} = Item 8 * [Item7 + (Item 9 * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]			
¹⁵ Underground Retention Volume (ft ³) Volume determined using manufacturer's specifications and calculations			
¹⁶ Total Retention Volume from LID Infiltration BMPs: (Sum of Items 14 and 15 for all infiltration BMP included in plan)			
17 Fraction of DCV achieved with infiltration BMP: % Retention% = Item 16 / Form 4.2-1 Item 7			
¹⁸ Is full LID DCV retained on-site with combination of hydrologic source control and LID retention and infiltration BMPs? Yes No I If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.			