**Potential MDC for Disconnected Impervious Surfaces**

**December 15, 2014**

1. For disconnected roofs, a maximum of 300 square feet of roof shall drain to each disconnected downspout unless a device (like a level spreader) is provided to spread the flow evenly across the entire width of the vegetated receiving area. If there is a spreading device, then the drainage area may be increased to 500 square feet. The receiving vegetated area shall be a rectangle of either 6 by 12 feet or 12 by 24 feet (width of vegetated area by length of run in direction of flow). The entire rectangle shall not include any impervious surface to ensure that water released from the roof does not run onto another impervious surface.
2. For disconnected pavement, the receiving vegetated area shall be either 10 or 15 feet long. The maximum width of pavement run that may discharge to the vegetated area is 100 feet and the maximum slope of the pavement shall be 7 percent.
3. The vegetated area shall have a maximum slope of 7 percent with land graded to promote sheet flow, except in A soils where the maximum slope is 15 percent.
4. If the vegetated area is established on fill soils that are less permeable than the in-situ soils, then the soil type for crediting purposes shall be based on the fill soils. However, if the fill soils are more permeable than the in-situ soils, then the soil type for crediting shall reflect the in-situ soil type.
5. The vegetated receiving area shall not contain any impervious surface.
6. The vegetated cover shall be a non-clumping, deep-rooted grass species. For disconnected downspouts, the vegetated area shall be kept off-line until vegetation has been established. For disconnected pavement, soils shall be stabilized with temporary means such as straw or matting until the permanent vegetative cover has taken root.
7. The vegetated area shall be uniformly graded with no gullies, low spots or lateral slopes.
8. All sites built within the past fifty years shall be tilled to eight inches prior to vegetation establishment.
9. Recommended: A minimum separation of five feet should be provided between the disconnected downspout and the foundation.
10. Recommended: Do not use wooded areas as vegetated receiving areas because uneven micro-topography often causes channelization, which reduces surface area exposed to stormwater.

**Table 24-1. Sizing and Credit for DIS**

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|  | **Type 1 DIS** | **Type 2 DIS** | **Type 3 DIS** |
| **Disconnected Roof: Vegetated Area Size** | **6’ x 12’**  | **12’ x 24’** | **12’ x 24’ & site BUA < 24%** |
| **Disconnected Paved Area: Vegetated Area Size** | **10’ length** | **15’ length** | **15’ length & BUA < 24%** |
| **Hydrologic soil group** | A/B | C/D | A/B | C/D | A/B only |
| **Runoff reduction credit** | 45% | 30% | 65% | 50% | 100% |
| **TSS reduction credit** | 45% | 30% | 65% | 50% | 85% |
| **TN reduction credit** | 30% | 30% | 30% | 30% | 30% |
| **TP reduction credit** | 35% | 35% | 35% | 35% | 35% |