Stormwater Quality Facilities or BMP’s allowed within Utility Easements

- The following table is a guideline for the design of stormwater facilities located within utility easements.
- For further information regarding BMP’s, refer to the City of Colorado Springs Drainage Criteria Manual.

<table>
<thead>
<tr>
<th>Stormwater Quality Facility</th>
<th>Design Considerations</th>
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</thead>
<tbody>
<tr>
<td>Grass buffer</td>
<td>• Acceptable in all cases</td>
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</table>
| Grass swale                 | • Allowed to cross perpendicular  
• Parallel design of utilities reviewed on a case-by-case basis  
• If parallel to roadway/ROW, not allowed w/o approval  
• Design rock check dams and/or grade control structures out of easement  
• SWQ feature should recognize/accommodate deep utility design  
• Ensure accommodation of all required utilities within easement  
• Parallel easement overlap allowed with minimum 10' separation from max. flow spread  
• Additional accommodation for gas and electric fixtures; and deeper utility mains |
| Modular block porous pavement | • Allowed to cross perpendicular  
• Minimize surface appurtenances including, but not limited to, transformers, manholes, hydrants, regulators, valve boxes (case by case review)  
• MBP-1 not allowed if impermeable layer is required (Type C & D soils)  
• MBP-2 not allowed |
| Porous pavement detention    | • Allowed to cross perpendicular  
• Minimize surface appurtenances including, but not limited to, transformers, manholes, hydrants, regulators, valve boxes (case by case review)  
• PPD-1 not allowed if impermeable layer is required (Type C & D soils)  
• No surface ponding allowed near or adjacent to surface appurtenances  
• Impermeable liner not allowed |
| Porous landscape detention   | • Limited encroachment into easement may be allowed  
• Coordination with Colorado Springs Utilities required prior to development plan submittal  
• Not allowed in same area where natural gas & electric are located behind the curb |
| Extended detention basin     | • Limited encroachment into easement may be allowed  
• Coordination with Colorado Springs Utilities required prior to development plan submittal  
• Outlet structures must be located outside of easement  
• All standard Colorado Springs Utilities access criteria must be adhered to |
| Sand filter extended detention basin | • Limited encroachment into easement may be allowed  
• Coordination with Colorado Springs Utilities required prior to development plan submittal  
• Maintain subsurface drainage system separation requirements (10-15') from Colorado Springs Utilities facilities |
| Proprietary inlets (Stormceptor®) | • Limited encroachment into easement may be allowed. Depth must be considered.  
• Coordination with Colorado Springs Utilities required prior to development plan submittal  
• Maintain standard storm inlet separation requirements as currently enforced |

- Additional design information to be considered in all instances:
  - The use of sleeves to accommodate the design of facilities (BMP’s) is strongly discouraged
  - Required clearances around surface appurtenances must still be maintained in all instances
  - Retaining walls may be required in sloped areas to allow for proper access and/or protection related to any utility lines or surface appurtenances