**GRASS BUFFER DESIGN CRITERIA**

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- **Connection and Impermeable Area (UIA) for Site**
  - Total UIA > 20% of Total Impermeable Area for Site Unexpected of Regional or Sub-Regional WQCV Facility

- **Receiving Permeable Area (RPA)**
  - RPA > 10% of Adjacent UIA

**Description**
- Parking Lot, Roadway, or other Impervious Area with Sheet Flow to Grass Buffer
- Slotted Curb or Concrete Edger with Wheel Stops (see details, this sheet)
- Grass Swale or Other Receiving Area
- 2-Year Water Surface

**Construction Notes**
1. Biodegradable double net 100% coconut erosion control blanket is required on native grass buffers for establishment of grass cover. Installation shall be in accordance with SAWCA GESC Manual.
2. Where possible, irrigation systems shall be installed in conjunction with finish grading of grass buffer. If irrigation installation will lag, buffer shall be restored to original condition following installation. Disturbed layers of granular material shall be restored, erosion control blanket and geotextiles shall be replaced or patched, and finish grades shall maintain design slopes.

**Design Notes**
1. Grass Buffers are intended for use in sheet flow conditions (2-Year Unit Discharge No Greater than 0.05 CFS/FT). For concentrated flow situations, a Level Spreader may be required to meet sheet flow criteria. See USDCM, Volume 3, T-1 for details.
2. Non-Irrigated Grass Buffers are not permitted as a Water Quality Control Measure.
3. Grass Buffers Adjacent to Roads, Parking Lots, or other Traffic Areas must be protected from wheel rutting by a slotted curb or wheel stops with drainage slots. Level Spreader may be required to meet sheet flow criteria.
4. An Underdrain must be provided for Grass Buffers. See USDCM, Volume 3, T-14 for details.
5. Grass Buffers shall be conveyed into a Storm Sewer, Drainageway, or other Designated Drainage System, Typically a Public Drainage System (not curb and gutter).

**Grass Buffer Design Criteria**

- **MIN. SLOPE:**
  - **Native Grass:** 2%
  - **Irrigated Bluegrass sod:** 2%
  - **Irrigated Turf (Forming Native Grass):** 10%

**Construction Notes (Include on Construction Drawings)**
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- Where possible, irrigation systems shall be installed in conjunction with finish grading of grass buffer. If irrigation installation will lag, buffer shall be restored to original condition following installation. Disturbed layers of granular material shall be restored, erosion control blanket and geotextiles shall be replaced or patched, and finish grades shall maintain design slopes.