



**TYPICAL MEDIAN BIORETENTION SECTION  
POSTED SPEED LIMIT OF 30 MPH AND LOWER**

**NOTES:**

- REFER TO DESIGN PLANS FOR HORIZONTAL CONTROL INFORMATION.
- FOR CITY PROJECTS, SEE SPECIFICATION 33.46.71 FOR UNDERDRAIN AND SPECIFICATION 33.46.74 FOR IMPERMEABLE LINER.
- IF REQUIRED, REFER TO DESIGN PLANS FOR UNDERDRAIN INVERT ELEVATIONS.
- REFER TO PLANS FOR UNDERDRAIN CLEANOUT LOCATIONS AND INSTALLATION DETAILS.
- BOTH PIPE PENETRATIONS, AND ATTACHMENT OF 30 MIL IMPERMEABLE LINER TO CONCRETE CURBS (USING CONCRETE ANCHORS SPACED AT MAXIMUM 18" O.C. AND BATTEN STRIPS), SHALL BE DONE IN ACCORDANCE WITH ASTM 6497. REFER TO GSI-08.1 AND GSI-08.2.
- BOTTOM OF STORAGE LAYER SHALL BE SCARIFIED TO PROMOTE INFILTRATION PRIOR TO BACKFILL. FOR CITY PROJECTS, SEE SPECIFICATION 33.43.73 FOR SUBGRADE PREPARATION.
- BIORETENTION MEDIA SHALL BE PLACED IN 6" TO 12" LIFTS THAT ARE WALKED ON OR WATERED TO CONSOLIDATE AND ALLOW SHAPING OF THE MEDIA'S SURFACE. THE MEDIA SHALL NOT BE MECHANICALLY COMPACTED. REFER TO NCDEQ STORMWATER DESIGN MANUAL AND FOR CITY PROJECTS, SPECIFICATION 33.46.70 FOR BIORETENTION SOIL MEDIA SPECIFICATIONS.
- STABILIZE CONTRIBUTING DRAINAGE AREA PRIOR TO PLACEMENT OF UNDERDRAIN AND VARIOUS FILL MATERIALS.
- FOR CITY PROJECTS, ALL MATERIALS SPECIFIED AS WASHED SHALL BE WASHED FOLLOWING SPECIFICATION 33.46.70.
- EXTEND CLEANOUT TO ELEVATION SHOWN ON PLANS.

CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 9/2024	NOT TO SCALE
	MEDIAN BIORETENTION (FOR 30 MPH AND BELOW)	
	<b>SW-30.02.1</b>	