TURFED SWALE NOTES:

1. REFER TO BSD-8301 FOR GENERAL SWALE NOTES.
2. REFER TO BSD-8306 FOR FIELD INLET DETAILS.

3. THE DEPTH VELOCITY PRODUCT (\( q \cdot V_{w} \)) IN THE SWALE SHALL BE LIMITED IN ACCORDANCE WITH QUDM SECTION 7.4.2 GENERAL REQUIREMENTS FOR PEDESTRIAN SAFETY (TYPICALLY 0.6m/s, OR 0.4m/s IN HIGH RISK AREAS).

4. UNDERDRAIN: SLANTED ROOF PIPE (UPVC OR SIMILAR TO AS 2439.1) OR APPROVED EQUIVALENT, 0.5% MINIMUM GRADE. DIAMETER TYPICALLY 100 TO 150mm PIPE JOINS SHALL BE SEAL BY FIRE USING GROUNTS OR OTHER APPROVED WATERPROOF SEAL. 50mm DRAINAGE LAYER (FINE AGGREGATE) COVER OVER 2-3mm SLANTED PIPE. SWALES FRONTING PARKS MAY NOT REQUIRE AN UNDERDRAIN AND SHALL BE ASSESSED ON A SITE BY SITE BASIS.

5. MINIMUM COVER OF 450mm TO UNDERDRAIN PIPE.

6. CLEANOUT: GRASS SWALE CLEANOUT ACCESS TO HAVE BOILED TRAP SCREW CAP WITH 150x150x150 CONCRETE SURROUND FINISHED FLUSH WITH GROUND FINISHED SURFACE.

7. FILTER CLOTH NON-WOVEN GEOTEXTILE FILTER CLOTH NOT TO BE PLACED BETWEEN ANY FILTER LAYERS. IMPERVIOUS LINER MAY BE REQUIRED ADJACENT TO ROADS AND MAY ALSO BE REQUIRED SUBJECT TO SOIL TESTING RECOMMENDATIONS IN ACCORDANCE WITH THE WASTE SENSITIVE URBAN DESIGN TECHNICAL GUIDELINES (WATER BY DESIGN).

8. TREE PLANTING AS PER BSD-9001.

9. DRAINAGE MEDIA TO BE COMPACTED CLEAN SAND WITH LITTLE OR NO FINES (USSC CLASSIFICATIONS SW AND SP).

10. FOR INTEGRATION SWALE UNDER-DRAIN DEPTHY DETAILS REFER TO BSD-8307.

GRASS SWALE UNDERDRAIN — LONGITUDINAL SECTION

GRASS SWALE UNDERDRAIN — SECTION

Design reviewed & certified for issue

Date: 24th February 2014

NOT TO SCALE

Brisbane City Council Standard Drawing

BSD—8305

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Date: 24th February 2014

Note:

1. Refer to BSD-8301 for general swale notes.
2. Refer to BSD-8306 for field inlet details.

3. The depth velocity product \( q \cdot V_{w} \) in the swale shall be limited in accordance with QUDM Section 7.4.2 General Requirements for Pedestrian Safety (typically 0.6m/s, or 0.4m/s in high risk areas).

4. Underdrain: Slanted roof pipe (UPVC or similar to AS 2439.1) or approved equivalent, 0.5% minimum grade. Diameter typically 100 to 150mm. Pipe joints shall be sealed using groguts or other approved waterproof seal. 50mm drainage layer (fine aggregate) cover over 2-3mm slanted pipe. Swales fronting parks may not require an underdrain and shall be assessed on a site by site basis.

5. Minimum cover of 450mm to underdrain pipe.

6. Cleanout: Grass swale cleanout access to have boiled trap screw cap with 150x150x150 concrete surround finished flush with ground finished surface.

7. Filter cloth non-woven geotextile. Filter cloth not to be placed between any filter layers. Impervious liner may be required adjacent to roads and may also be required subject to soil testing requirements in accordance with the waste sensitive urban design technical guidelines (water by design).

8. Tree planting as per BSD-9001.

9. Drainage media to be compacted clean sand with little or no fines (USSC classifications SW and SP).

10. For integration swale under-drain depth details refer to BSD-8307.