

BIORETENTION SWALE NOTES:

- DESIGN: STORMWATER TREATMENT ASSET (STA) BIORETENTION SYSTEM TO BE DESIGNED IN ACCORDANCE WITH 1 "BIORETENTION TECHNICAL DESIGN GUIDELINES" (WATER BY DESIGN).
- CONSTRUCTION: STORMWATER TREATMENT ASSET (STA) BIORETENTION SYSTEM TO BE CONSTRUCTED IN ACCORDANCE 2 WITH "CONSTRUCTION AND ESTABLISHMENT GUIDELINES" (WATER BY DESIGN).
- BIORETENTION SWALE MAY BE USED IN THE CENTRE MEDIAN AND IN THE FOOTPATH AT PARK FRONTAGES. BIORETENTION 3 SWALES SHALL NOT BE USED IN THE FOOTPATH AT RESIDENTIAL FRONTAGES.
- FOR BIORETENTION SWALE FIELD INLET DETAILS REFER TO BSD-8308, FOR VERGE SWALES AND MEDIAN SWALES REFER TO 4. BSD-8308
- 5. THE DEPTH VELOCITY PRODUCT (d_S . V_{AVG}) IN THE SWALE SHALL BE LIMITED IN ACCORDANCE WITH QUDM SECTION 7.4.2 GENERAL REQUIREMENTS FOR PEDESTRIAN SAFETY (TYPICALLY 0.6m²/s, OR 0.4m²/s IN HIGH RISK AREAS).
- BIORETENTION FILTER MEDIA, TRANSITION LAYER AND DRAINAGE LAYER IN ACCORDANCE WITH THE "GUIDELINES FOR SOIL 6. MEDIA IN BIORETENTION SYSTEMS", FACILITY FOR ADVANCING WATER BIORETENTION (FAWB)
- VEGETATION: PLANT SPECIES, TO BE DETERMINED ON A PROJECT BY PROJECT BASIS. PLANT SPECIFICATION AND DENSITY SHALL BE IN ACCORDANCE WITH "BIORETENTION TECHNICAL DESIGN GUIDELINES" (WATER BY DESIGN) AND BRISBANE CITY COUNCIL'S INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY. TREE SPECIES TO BE SELECTED AS PER THE CENTRES DETAIL DESIGN MANUAL AND ALSO CONSIDERING THEIR SUITABILITY FOR WET AND DRY CONDITIONS. VEGETATION TO BE INSTALLED ON 300 MINIMUM TOPSOIL LAYER
- MULCH: 50-75mm MULCH LAYER TO BE ORGANIC AND FRIABLE, SUCH AS SUGARCANE. USE JUTE MESH OR SIMILAR 8 BIODEGRADABLE NETTING OVER. SIDES OF MESH TO BE BURIED IN 300mm TRENCH. EACH JOIN IS TO BE OVER LAPPED BY 100mm. 300mm BIODEGRADABLE PEGS ARE TO BE USED AND INSTALLED AT 500mm CENTRES OR AS PER MANUFACTURERS. SPECIFICATION.
- FILTER CLOTH: NON-WOVEN GEOTEXTILE. FILTER CLOTH NOT TO BE PLACED BETWEEN ANY FILTER LAYERS. IMPERVIOUS 9 LINER MAY BE REQUIRED ADJACENT TO ROADS AND MAY ALSO BE REQUIRED SUBJECT TO SOIL TESTING REQUIREMENTS IN ACCORDANCE WITH THE "BIORETENTION TECHNICAL DESIGN GUIDELINES" (WATER BY DESIGN)
- EROSION CONTROL AND PUBLIC SAFETY RISKS NEED TO BE CONSIDERED AND MANAGED. VEGETATED BATTERS SHOULD BE 10. NO STEEPER THAN 1V:4H IF USED IN THE STREETSCAPE.
- UNDERDRAIN: SLOTTED RIGID PIPE (UPVC, HDPE, OR SIMILAR TO AS 2439.1) OR APPROVED EQUIVALENT, 0.5% MINIMUM GRADE. 2-3mm SLOTS, DIAMETER TYPICALLY 100 TO 150mm. PIPE JOINS SHALL BE SEALED INTO PITS USING GROUTS OR OTHER APPROVED WATERTIGHT SEAL. 50mm MIN DRAINAGE LAYER (FINE AGGREGATE) COVER OVER SLOTTED PIPE.
- 11. 12. STREET FURNITURE AND LAYOUT TO BE DETERMINED ON A PROJECT BY PROJECT BASIS.
- 13. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

VERIFY SERVICI EXC

THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



LOCATION OF	
ES PRIOR TO	
AVATION.	

UNCIL STANDARD DRAWING	PUBLISH DATE JUN 2023	
REATMENT ASSET (STA)	SCALE NOT TO SCALE DRAWING NUMBER	
ENTION SWALE	BSD-8335	
DRAIN DETAILS	ORIGINAL SIZE REVISION	١