

- THESE STANDARD DRAWINGS ARE BASED ON STANDARD DRAWINGS INCLUDED IN LANDCOM'S "BLUE BOOK"
- LOCATION OF ALL RELEVANT STANDARD CONTROLS SHALL BE DEPICTED ON A DETAILED CONTOUR PLAN TO INDICATE THE MINIMUM REQUIREMENTS FOR CONSTRUCTION ACTIVITIES.
- PLACEMENT OF CONTROLS TO BE APPROVED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL WORK IS TO BE IN ACCORDANCE WITH CENTRAL COAST COUNCIL'S CIVIL WORKS CONSTRUCTION
- 'CLEAN' RUN-ON WATER FROM UPHILL SHOULD BE DIVERTED WHERE POSSIBLE, USING APPROPRIATE
- 'DIRTY' SITE WATER SHALL BE TREATED USING APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES.
- EXPOSED OR DISTURBED AREAS OF SOIL AND VEGETATION SHALL BE HYDROMULCHED OR PROTECTED BY SIMILAR GROUND COVER AT THE END OF EACH DAY OR AS SOON AS POSSIBLE.
- ANY STOCKPILE MUST BE PROTECTED OVERNIGHT OR BEFORE RAIN WITH APPROPRIATE SEDIMENT
- ANY SAND STOCKPILE SHALL BE PROTECTED BY SEDIMENT CONTROL AND NOT LOCATED IN TABLE DRAINS.
- ROADWAYS SHALL BE SWEPT CLEAN AT THE END OF THE DAY OR BEFORE RAIN.
- TRUCK ROUTES TO BE MONITORED DAILY AND SWEPT/WASHED DOWN AS NECESSARY.
- 12. ALL SEDIMENT CONTROLS TO BE IN PLACE AT THE END OF WORK AND/OR PRIOR TO RAIN.
- 13. BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH CENTRAL COAST COUNCIL'S CIVIL WORKS

14. GROYNES OR SAUSAGES (BLUE METAL FILLED BAGS) SHALL BE PLACED IN FRONT OF CULVERT ENTRY

- 15. PLASTIC LINER TO BE INSTALLED ON THE SIDE OF EACH PIT WHERE WATER ENTERS.

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- THIS STANDARD DRAWING IS TO BE USED FOR GUIDANCE ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.
- CONSTRUCTED WETLANDS SHALL BE DESIGNED BY A SUITABLY QUALIFIED AND EXPERIENCED ENGINEER, CIVIL DESIGNER, LANDSCAPE ARCHITECT AND/OR WETLAND ECOLOGIST.
- PROMOTE SETTLING OF SEDIMENT LARGER THAN $125\mu\text{M}$ within the inlet
- DIRECT MOST OF THE FLOW VOLUME THROUGH THE PLANTED MACROPHYTE ZONE TO ENHANCE SEDIMENTATION, FILTRATION, ADHESION AND BIOLOGICAL UPTAKE.
- ENSURE FLOWS THROUGH THE WETLAND ARE DETAINED FOR 72 HOURS, USING THE OUTLET TO CONTROL FLOW RATES.
- ENSURE THE MACROPHYTE ZONE IS PROTECTED FROM SCOURING AND DAMAGE TO THE PLANTS, BY KEEPING WATER VELOCITY UNDER 0.5m/s AND BYPASSING FLOWS AWAY FROM WETLAND ONCE THE MAXIMUM EXTENDED DETENTION DEPTH IS REACHED.
- ENSURE THE CONSTRUCTED WETLAND CAN BE FULLY DRAINED WITHIN 48 HOURS AND APPROPRIATE ACCESS IS PROVIDED FOR MAINTENANCE PURPOSES.
- ALL WEIR ROCK DIMENSIONS ARE 0.3m x 0.5m x 1.0m NOMINAL SANDSTONE.
- WATER CONTROL DEVICES ARE TO BE SET TO INVERT OF THE BASIN.
- 10. BATTERS AND BENCHING SHALL INCLUDE 200mm TOPSOIL.
- 11. ALL BATTER SLOPES SHALL BE 3:1 (VEGETATED) OR 5:1 (GRASS) UNLESS OTHERWISE SPECIFIED.
- 12. ENSURE BATTERS DO NOT OBSTRUCT DRAINAGE PIT INLETS AND THAT ACCESS CAN BE GAINED TO MAINTAIN/CLEAN GROSS POLLUTANT TRAPS.
 - BARRIER FENCING SHALL BE IN ACCORDANCE WITH COUNCIL'S "BARRIER SELECTION GUIDELINES FOR CONSTRUCTED WETLANDS AND PERMANENT SEDIMENT PONDS".
 - CENTRAL COAST COUNCIL "CONSTRUCTED WETLAND" SIGN TO BE PLACED AT EACH CORNER OF WETLAND AND ANY PUBLIC ENTRY POINT.
- 15. DENSELY PLANT VEGETATION ON EDGE OF WETLAND MACROPHYTE ZONES. SEE OPERATIONS AND MAINTENANCE MANUAL SECTON 6.3 FOR INDICATIVE PLANT SPECIES.
- 16. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE USED DURING CONSTRUCTION IN ACCORDANCE WITH COUNCIL'S CIVIL WORKS SPECIFICATION.
- 17. DESIGN CHECKLIST TO BE PROVIDED TO COUNCIL WITH CONCEPT DESIGN OF WETLAND - REFER TO APPENDIX C OPERATIONAL AND MAINTENANCE MANUAL.

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GRADE AS REQUIRED		
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125mm THICK N 30mm TOP COV SUBGRADE MAT SUBGRADE IF RE OT TO SCALE	25 CONCRETE WITH SL ER ON COMPACTED AP ERIAL. PROVIDE REPLAC QUIRED	72 MESH PROVED CEMENT
APPLICATIONS OR AS ADVISED BY COUNCIL	S REPRESENTATIVE)	
TYPE 2 DNDUIT CROSSING NOT TO SCALE		
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CAST IRON CAP	IN CONCRETE SURROU T HEAD OF SUBSURFAC	ND TE DRAIN
DETAIL C DRAIN FLUSHING POINT NOT TO SCALE	DIRECTION	
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STORMWATER - SOILS AND CONSTRUCTION, VOLUME 1 (LANDCOM, 2004) AND MAY ALSO BE CONSTRUCTED USING CONCRETE, BLOCKWORK OR TIMBER BEAMS. SWALE VEGETATION TO BE MAINTAINED GREATER THAN 100mm IN HEIGHT. SWALE DIMENSIONS TO BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF COUNCIL'S CIVIL WORKS SPECIFICATION.

TRANSITION FILTER LAYER REQUIREMENT TO BE ASSESSED BASED ON PLANTING SOIL/TRENCH GRAVEL GRADING COMPATIBILITY. LINING OF SUBSURFACE SYSTEMS IS TO BE ASSESSED BASED ON GROUNDWATER CONDITIONS AND PROXIMITY OF SENSITIVE INFRASTRUCTURE. SEEK GEOTECHNICAL ENGINEER'S RECOMMENDATIONS IF

(500mm MIN WIDE)

SECTION

NOT TO SCAL

CHECK DAM FORMED BY 2000

(REFER NOTE 5)

PLANT EPHEMERAL WETLAND PLANT

SPECIES IN CHECK DAM AREA

ROCK PLACEMENT FOR GRADES >4%

FLOW DIRECTION

100 MIN

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH COUNCIL'S CIVIL

WORKS SPECIFICATION.

PLANT SPECIES WITHIN SWALE SHALL BE IN ACCORDANCE WITH WATER BY DESIGN'S ONLINE WSUD PLANT DATABASE.

PITS AND GRATES SHALL CONFORM TO COUNCIL'S CIVIL WORKS SPECIFICATION.

BIORETENTION MATERIAL SPECIFICATION SUMMARY

GENERAL

SUBSURFACE DRAINAGE MANIFOLD -MAXIMUM SPACING OF LATERALS 2.5m

1 MAX

- EXTENT OF PONDING

(TYPICALLY 100-300mm)

PROPRIETARY GROSS POLLUTANT TRAP IN ACCESSIBLE LOCATION FOR MAINTENANCE ACCESS

THE FOLLOWING SUMMARY HAS BEEN EXTRACTED AND ADAPTED FROM 'GUIDELINES FOR SOIL FILTER MEDIA IN BIORETENTION SYSTEMS (VERSION 2.01), FAWB - MARCH 2008 (THE FAWB SPECIFICATION). FOR FURTHER INFORMATION, REFERENCE SHOULD BE MADE TO THAT DOCUMENT.

FILTER MEDIA HYDRAULIC PROPERTIES

THE FILTER MATERIAL SHALL PREFERABLY BE A "WASHED SAND" OF SILICEOUS OR CALCAREOUS ORIGIN, ONE THAT HAS BEEN MINED AND PROCESSED. NATURAL SOILS OR TOPSOILS ARE NOT USUALLY SUITABLE.

THE MEDIA SHALL HAVE THE FOLLOWING MECHANICAL AND



TRANSITION LAYER

AN INDICATIVE PARTICLE SIZE DISTRIBUTION IS PROVIDED BELOW.

NOTE: GEOTEXTILE FABRICS ARE NOT PERMITTED FOR USE AS A TRANSITION LAYER DUE TO THE RISK OF CLOGGING.

SIEVE SIZE AS (mm)	% PASSING
0.075	0-3
0.15	0-4
0.3	0-16
0.6	12-40
1.18	40-65
2.36	70-100
4.75	90-100
9.5	100



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900mm HIGH (TYP)



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ASSETS PLANNING AND DESIGN

ROADS TRANSPORT DRAINAGE AND WASTE

DATE DRAWN APRVD ALL DIMENSIONS IN mm UNLESS OTHERWISE SHOWN

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AMENDMENT

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7 PANELS WITH WIDTH OF 1040mm AND 3 PANELS WITH WIDTH OF 630mm FOR 900mm HEIGHT OF RACKS.



TYPICAL GRADUATED TRASH RACK PHOTO



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						CHECKED	M BAMBER		Central Coa
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					NOT TO SCALE	UNIT	MANAGER APPROVAL	Coast	
							10	Council	SOIL AND WATER MA
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