ROOTY HILL ROAD SOUTH

CABLE PLACE

BEGGS ROAD (UNFORMED)

CHURCH STREET

GREAT WESTERN HIGHWAY

BELMORE ROAD (UNFORMED)

GAS EASEMENT

WESTLINK M7

MOTORWAY

PAD 1

PAD 2

PAD 3

PAD 4

HAIL BAILS AS PER DETAIL ON DRG DA25

REFER TO DETAILS FOR TYPICAL CROSSING OVER DIVERSION DRAIN

DIVERSION DRAIN

SILT FENCE

SILT FENCE PROVIDE PROTECTION TO BIO-BASIN AS DETAILED ON DA45.

NOMINAL LOCATION OF SITE STOCKPILE. TO BE CONFIRMED BY SITE MANAGER

SEDIMENT POND 2
UTILISE PROPOSED BASIN AS TEMPORARY SEDIMENT POND. REFER TO NOTES

BIO-RETENTION MEDIA TO BE INSTALLED AFTER >80% OF OVERALL UPSTREAM DEVELOPMENT HAS BEEN CONSTRUCTED. REFER TO TEMPORARY PROTECTION DETAIL ON DA45

SEDIMENT POND 1
UTILISE PROPOSED BASIN AS TEMPORARY SEDIMENT POND. REFER TO NOTES.

EROSION CONTROL NOTES

ALL CONTROL WORK INCLUDING DIVERSION BANKS AND CATCH DRAINS, V-DRAINS AND SILT FENCES SHALL BE COMPLETED DIRECTLY FOLLOWING THE COMPLETION OF THE EARTHWORKS.

1. SILT FENCES AND SILT FENCE RETURNS SHALL BE ERECTED CONVEX TO THE CONTOUR TO POND WATER.
2. HAY BALE BARRIERS AND GEOFABRIC FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.
3. ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
4. CLEAR WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.
6. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED LOCATION.
7. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE END OF THE DEFECTS LIABILITY PERIOD.
8. ALL EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR BASIS TO SEAL THE EARTHWORKS.
9. ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOPE AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200MM.
10. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
11. AFTER REVEGETATION OF THE SITE IS COMPLETE AND THE SITE IS STABLE IN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WORK SUCH AS SILT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.
12. ALL TOPSOIL STOCKPILES ARE TO BE SUITABLY COVERED TO THE SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER EROSION.
13. ANY AREA THAT IS NOT APPROVED BY THE CONTRACT ADMINISTRATOR FOR CLEARING OR DISTURBANCE BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARLY MARKED AND SIGN POSTED, FENCED OFF OR OTHERWISE APPROPRIATELY PROTECTED AGAINST ANY SUCH DISTURBANCE.
14. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS APPROVED FOR SUCH USE BY THE SITE MANAGER. A 6m BUFFER ZONE SHALL EXIST BETWEEN STOCKPILE SITES AND ANY STREAM OR FLOW PATH. ALL STOCKPILES SHALL BE ADEQUATELY PROTECTED FROM EROSION AND CONTAMINATION OF THE SURROUNDING AREA BY USE OF THE MEASURES APPROVED IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
15. ACCESS AND EXIT AREAS SHALL INCLUDE SHAKE-DOWN OR OTHER METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FORM MOTOR VEHICLES.
16. THE CONTRACTOR IS TO ENSURE RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS, DEPOT AND STOCKPILE SITES, SHALL BE FREE OF POLLUTANTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES.
17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED ESCP / SWMP.

SEDIMENTATION BASIN NOTE:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING C012693.00-DA25.

SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER- THE BLUE BOOK'. CAPACITY BASED UPON 5 DAY RAINFALL DEPTH AT 80th PERCENTILE INTENSITY (24.6mm).

APPROXIMATE AREA OF DISTURBED SITE = 16.30ha

SEDIMENT BASIN 1:
DISTURBED CATCHMENT AREA = 4.12ha
REQUIRED BASIN VOLUME = 760m³
PROVIDED BASIN VOLUME = 3,500m³

SEDIMENT BASIN 2:
DISTURBED CATCHMENT AREA = 12.18ha
REQUIRED BASIN VOLUME = 2,247m³
PROVIDED BASIN VOLUME = 5,600m³

SEDIMENTATION BASINS TO COLLECT RUN-OFF IN EXTREME RAINFALL EVENTS. COLLECTED RUN-OFF TO BE ASSESSED BY A QUALIFIED LABORATORY FOR DOUSING RATES OF ALUM OR GYPSUM TO ENSURE COAGULATION OF SEDIMENTS PRIOR TO WATER BEING DISCHARGED TO COUNCIL STORMWATER SYSTEM.

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

NOTES:
1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL

EROSION & SEDIMENT CONTROL PLAN
SCALE 1:1000

LEGEND:
- SILT FENCE
- DIVERSION DRAIN
- HAY BAILS

10m 0 10 20 30 40 50 60 70 80 90 100m
SCALE 1:1000 AT A0 SIZE SHEET

FOR SECTION 96

AMENDMENTS	DATE	ISSUE
ISSUED FOR SECTION 96	21.07.15	B
FOR INFORMATION ONLY	30.03.15	A

ARCHITECT

CLIENT
Western Sydney Parklands Trust
WESTERN SYDNEY PARKLANDS TRUST
LEVEL 7, 10 VALENTINE AVE
PARRAMATTA NSW 2150

PROJECT
EASTERN CREEK BUSINESS HUB
WESTERN SYDNEY PARKLANDS

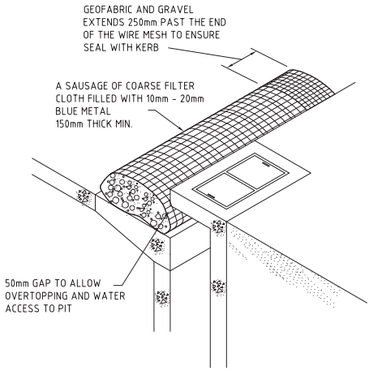
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
M.W.	X.C.	MAR 2015		A0	AS SHOWN	12693.00-DA20

Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 8251-7700 Fax: (02) 8041-3721
email: mail@costinroe.com.au ©

CostinRoe Consulting
Value in Engineering and Management

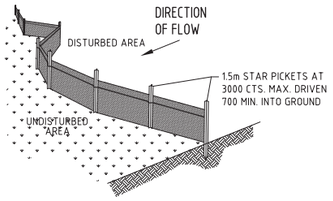
DRAWING TITLE
EROSION & SEDIMENT CONTROL PLAN

DRAWING No C012693.00-DA20 ISSUE B



KERB INLET CONTROL

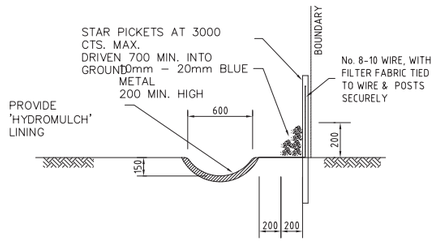
NTS



TYPICAL SILT FENCE DETAIL

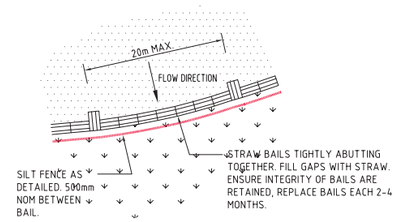
N.T.S.

PROVIDE 1m RETURNS AT 30m INTERVALS.
TYPICAL



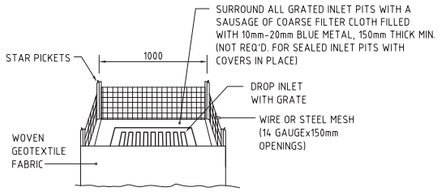
TYPICAL OPEN DRAIN & SILT FENCE

SCALE 1 : 20



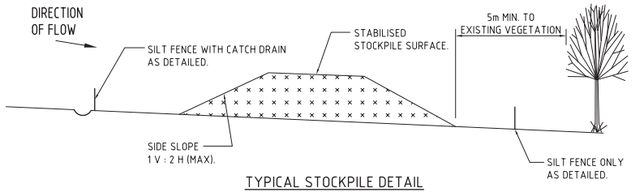
SILT FENCE WITH HAY BAIL PLAN

N.T.S.



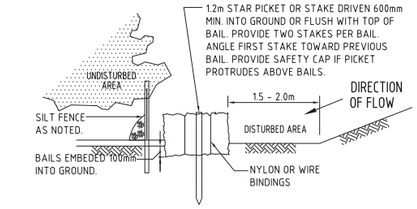
GRATED INLET PIT FILTER DETAIL

N.T.S



TYPICAL STOCKPILE DETAIL

N.T.S.



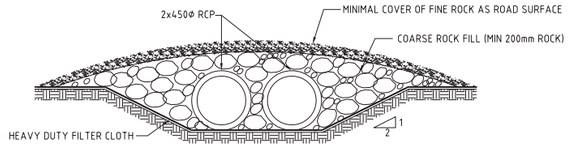
SILT FENCE WITH HAY BAIL DETAIL

N.T.S.

NOTE : ADOPT ABOVE DETAILS AROUND ALL PITS WITHIN AREA ENCOMPASSED BY SILT FENCE & TO PITS ON THE ROAD ADJACENT TO SITE BOUNDARY.

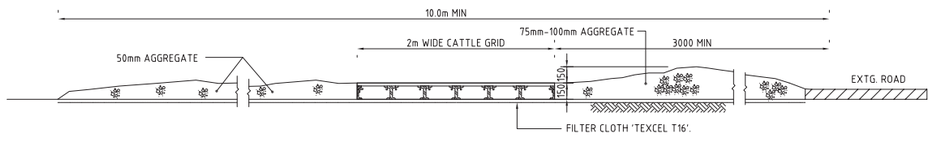
STOCKPILE NOTES

1. PLACE ALL STOCKPILES IN LOCATIONS MORE THAN 5m FROM EXISTING VEGETATION, ROADS & HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT ELONGATED MOUNDS. SIDE SLOPE TO BE 1 V: 2 H MAX.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE STOCKPILES ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE USING WOOD CHIP MULCH - 16 TONNE/Ha.
5. CONSTRUCT SILT FENCE WITH CATCH DRAIN ON UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES & SILT FENCE ONLY 1 TO 2m DOWNSLOPE AS SHOWN.



TYPICAL CROSSING OVER DIVERSION CHANNEL

SCALE 1:20



STABILISED CONSTRUCTION ENTRANCE 'TRUCK SHAKER'

SCALE 1 : 20

FOR SECTION 96

AMENDMENTS	DATE	ISSUE
ISSUED FOR SECTION 96	21.07.15	B
FOR INFORMATION ONLY	30.03.15	A

ARCHITECT

CLIENT
Western Sydney Parklands Trust
WESTERN SYDNEY PARKLANDS TRUST
LEVEL 7, 10 VALENTINE AVE
PARRAMATTA NSW 2150

PROJECT
EASTERN CREEK BUSINESS HUB
WESTERN SYDNEY PARKLANDS

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
M.W.	X.C.	MAR 2015		A0	AS SHOWN	12693.00-DA25

Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-5721
email: mail@costinroe.com.au ©

CostinRoe Consulting

Value in Engineering and Management

DRAWING TITLE
EROSION & SEDIMENT CONTROL DETAILS

DRAWING No C012693.00-DA25

ISSUE B