

MAINTAIN EXISTING SWALE AND EXISTING CROSS SECTIONAL AREA

INSTALL NEW STORMWATER SUMP WITH SURCHARGE LID ON EXISTING SWALE TO DIVERT MINOR FLOWS. MINIMUM LID OPENING - 150mm.

EXISTING ADJACENT BUILDING

623

VALLEY CLOSE

620

EXISTING STORMWATER PIPE AND MANHOLE TO BE DISCONNECTED AND REMOVED.

CONSTRUCT OVERLAND SWALE AT MINIMUM 1% LONGITUDINAL GRADE TO DIVERT STORMWATER AND SNOW MELT FLOWS AWAY FROM BUILDING. REFER TO TYPICAL SECTION FOR DETAIL.

CATCHMENT AREA OF 6067m². ASSUMING THE EXISTING CREEK WOULD CUT OFF EXISTING FLOWS FROM OVERLAND.



OVERLAND CATCHMENT MAP
NTS

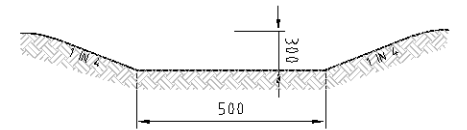
LEGEND

EXISTING

- BLOCK BOUNDARY
- SECTION NUMBER
- BLOCK NUMBER
- MAJOR CONTOURS
- MINOR CONTOURS
- STORMWATER MAIN (SUMP, MANHOLE, ENDCAP)
- EXISTING TREES

PROPOSED

- STORMWATER (GRATED PIT)
- EXISTING TREES REMOVED
- DISCONNECT AND REMOVE SERVICES
- EXISTING OVERLAND FLOW PATHS
- PROPOSED OVERLAND FLOW PATHS
- STORMWATER INFORMATION.
Up IL
Diameter
Length
Grade
Down IL
- STORMWATER ID



TYPICAL SECTION THROUGH OVERLAND SWALE

NTS

STORMWATER STRUCTURE TABLE

PIT NO	DESCRIPTION	EASTING	NORTHING	COVER RL	REMARKS
2/3	600x600 GRATED PIT	617183.710	5959735.328	1373.75	
2/2	600x600 GRATED PIT	617194.866	5959734.610	1372.55	
2/1	600x600 GRATED PIT	617199.195	5959744.428	1372.30	
1/3	600x600 GRATED PIT	617196.843	5959764.741	1372.30	SURCHARGE LID
1/2	600x600 GRATED PIT	617203.839	5959757.905	1372.00	
1/1	600x600 GRATED PIT	617203.207	5959747.579	1371.90	HD COVER
EX	EX SW MANHOLE	617204.346	5959746.303	1371.80	



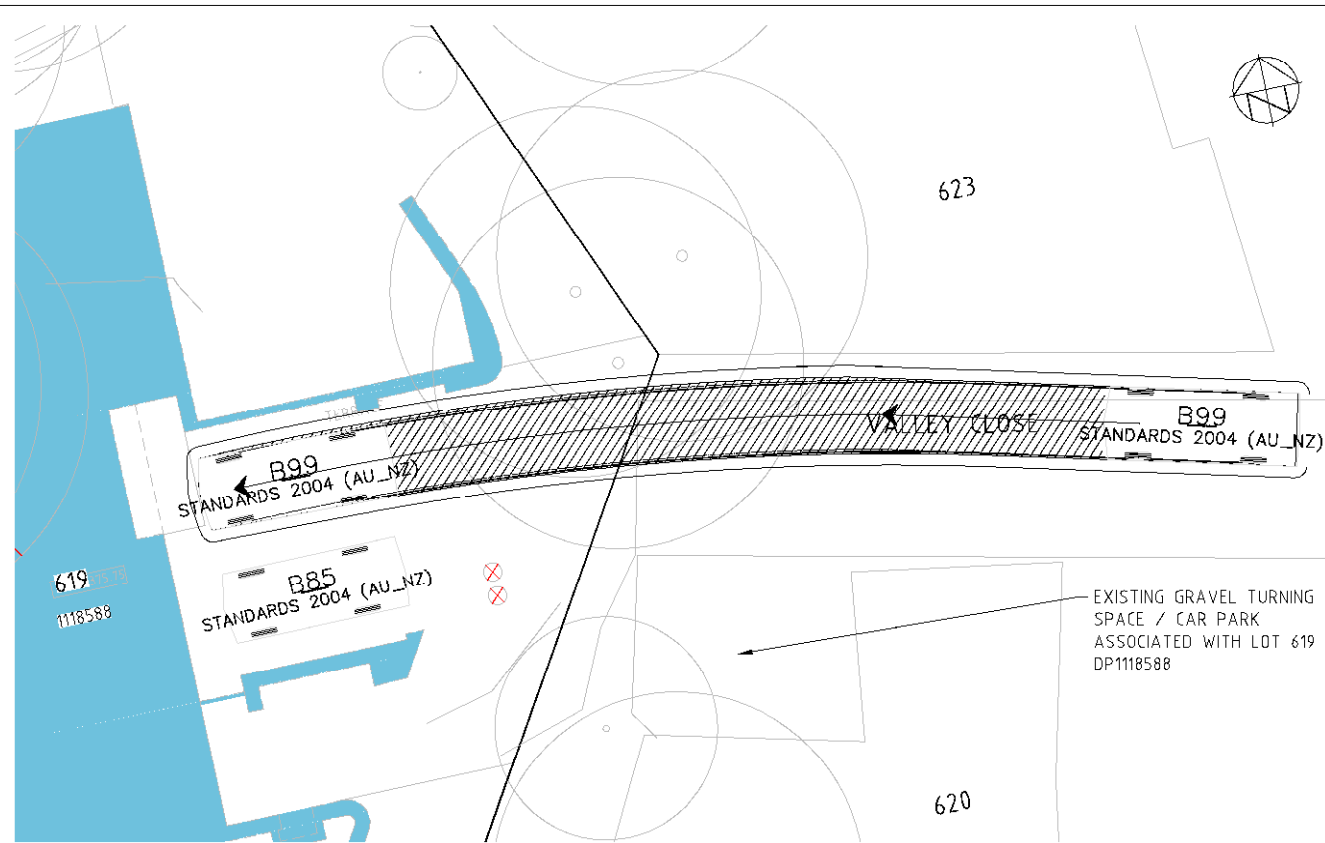
No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECTS	CLIENT	APPROVED	DATE	PROJECT	DRAWING TITLE	PROJECT No.	DRAWING No.	AMDT
							AN	30.03.2021	THREDBO LOT 619 DP 118588	STORMWATER MANAGEMENT PLAN	8046-01	C05	C
						AN	30.03.2021						
						HH							
						HG							
C	AMENDED FOR COUNCIL COMMENTS	AN	31.11.2021	HH									
B	AMENDED FOR DA SUBMISSION	AN	31.03.2021	HH									
A	FOR DA SUBMISSION	AN	30.03.2021	HH									

**COLLINS
PENNINGTON**

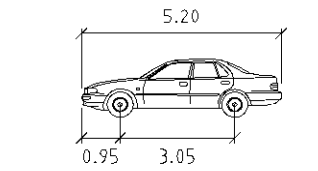
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APPROVED **AN** DATE **30.03.2021**
 CHECKED **AN** DATE **30.03.2021**
 DESIGNED BY **HH**
 DRAWN BY **HG**
 CAD FILE
 SCALE: **AS SHOWN** SHEET No.

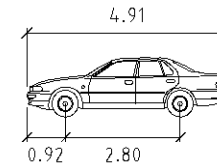
PROJECT No. **8046-01** DRAWING No. **C05** AMDT **C**



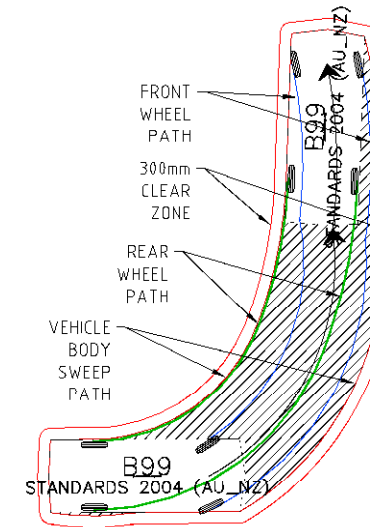
VEHICLE TURNING PATH - B99 VISITOR ENTRY
1:100 @ A1



B99
 meters
 Width : 1.94
 Track : 1.84
 Lock to Lock Time : 6.0
 Steering Angle : 33.9



B85
 meters
 Width : 1.87
 Track : 1.77
 Lock to Lock Time : 6.0
 Steering Angle : 34.1



VEHICLE DETAILS
NTS

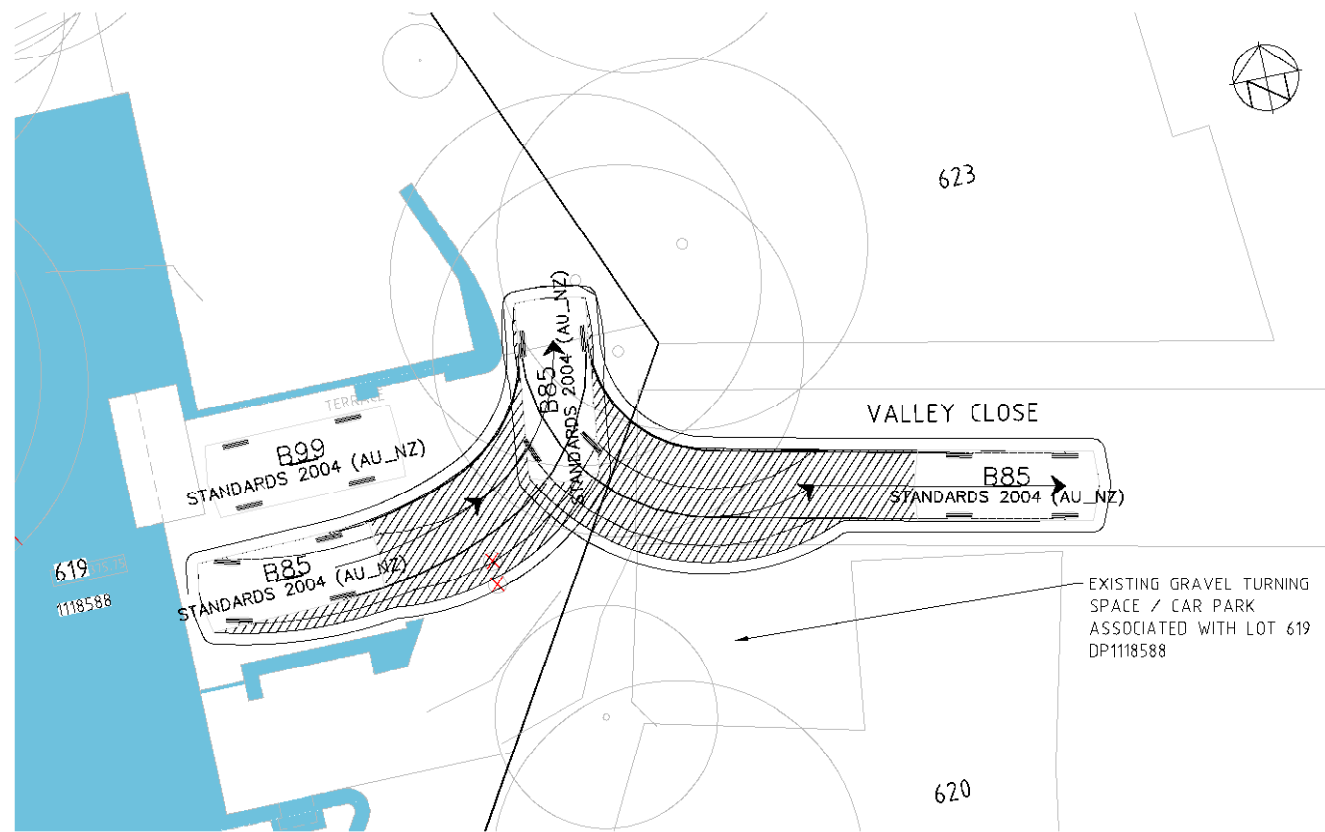
LEGEND

EXISTING

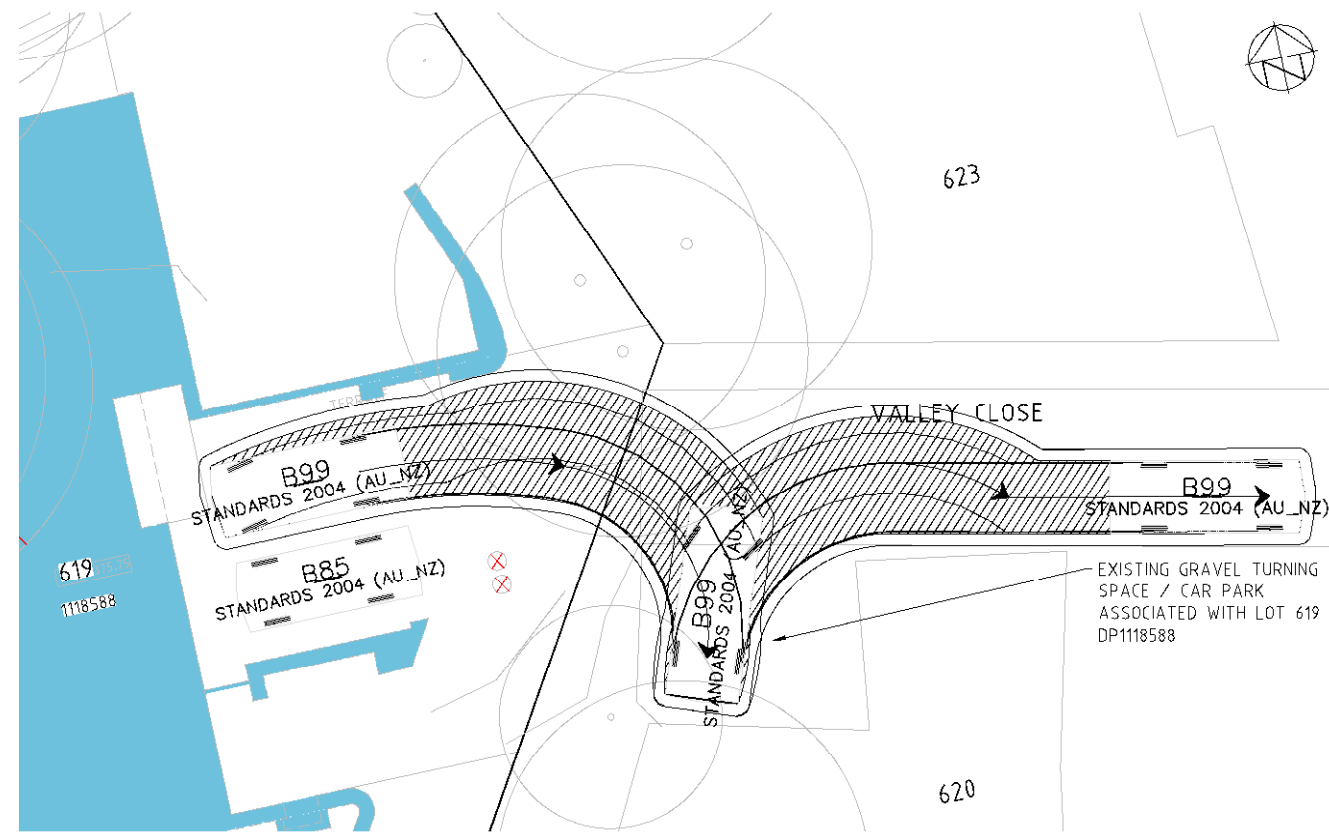
- 229 BLOCK BOUNDARY
- 3 SECTION NUMBER
- EXISTING TREES

PROPOSED

- EXISTING TREES AND STUMPS TO BE REMOVED



VEHICLE TURNING PATH - B85 VISITOR EXIT
1:100 @ A1



VEHICLE TURNING PATH - B99 VISITOR EXIT
1:100 @ A1



No.		AMENDMENT	APPROVED	DATE	AMEND BY	ARCHITECTS	CLIENT			PROJECT	DRAWING TITLE		
										THREDBO LOT 619 DP 1118588	TURNING TEMPLATE PLAN		
C		AMENDED FOR COUNCIL COMMENTS	AN	03.11.2021	HH						PROJECT No. 8046-01	DRAWING No. C10	AMDT C
								APPROVED AN DATE 03.11.2021					
								CHECKED AN DATE 03.11.2021					
								DESIGNED BY HH					
								DRAWN BY HH					
								CAD FILE					
								SCALE AS SHOWN SHEET No.					

GENERAL NOTES

- ALL WORK TO COMPLY WITH MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION, FOURTH EDITION, MARCH 2004.
- WASTE ENCLOSURES WILL BE USED FOR ALL RUBBISH ON SITE AND RUBBISH REMOVED FROM ENCLOSURE(S) WHEN REQUIRED OR FULL
- THE CONTRACTOR PROPOSING TO DEVELOP THE SITE MUST HOLD AN ENVIRONMENT AUTHORISATION OR ENTER INTO AN ENVIRONMENT PROTECTION AGREEMENT WITH THE ENVIRONMENT PROTECTION AUTHORITY (EPA) IN RESPECT OF THE ACTIVITY PRIOR TO COMMENCEMENT OF CONSTRUCTION (TELEPHONE 131 555)
- CONTRACTOR TO ENSURE ALL APPROVALS ARE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

DUST MANAGEMENT

WHERE BUILDING WORK GENERATES DUST, ALL REASONABLE AND PRACTICABLE MEASURES SHOULD BE TAKEN TO MINIMISE THAT DUST.

THIS CAN OFTEN BE ACHIEVED BY:

- STRIPPING AREAS PROGRESSIVELY AND ONLY WHERE IT IS NECESSARY FOR WORKS TO OCCUR.
- EMPLOYING STABILISING METHODS SUCH AS MATTING, GRASSING OR MULCH.
- DAMPENING THE GROUND WITH A LIGHT WATER SPRAY (CONTACT ENVIRONMENT PROTECTION AUTHORITY FOR REQUIREMENTS DURING EXTREME DROUGHT CONDITIONS).
- ROUGHENING SURFACE OF EXPOSED SOIL.
- COVERING STOCKPILES AND LOCATING THEM WHERE THEY ARE PROTECTED FROM THE WIND.
- RESTRICTING VEHICLE MOVEMENTS.
- ALL LOADS TO BE COVERED WHEN TRANSPORTING MATERIAL OFF SITE
- CONSTRUCTING WIND BREAKS SUCH AS WIND FENCES IN ACCORDANCE WITH THE BLUE BOOK.
- A WATER CART OR SUFFICIENT WATER SPRAYS SHALL BE MADE AVAILABLE AT ALL TIMES. IN ADVERSE CONDITIONS WHEN DUST CANNOT BE ADEQUATELY CONTROLLED WHEN WORKS AREA BEING UNDERTAKEN, WORKS WILL CEASE IN THESE AREAS UNTIL CONDITIONS IMPROVE.
- WATER SHALL BE APPLIED TO SUPPRESS DUST FROM OPEN EARTHWORKS AS WELL AS UNPROTECTED STOCKPILES.
- AREAS OF COMPLETED EARTHWORKS SHALL BE PROGRESSIVELY REHABILITATED WITH DRYLAND GRASS AND FENCED OFF AS SOON AS PRACTICABLE TO PREVENT FURTHER EROSION.
- THE CONTRACTOR SHALL CONTACT QUEANBEYAN-PERLANG REGIONAL COUNCIL TO OBTAIN RECYCLED WATER FROM THE LOWER MOLONGLO.
- THE CONTRACTOR IS TO CONTACT THE WATER RESOURCES UNIT TO OBTAIN AN EXEMPTION TO USE NON-POTABLE WATER FROM ON OR OFF THE SITE IF REQUIRED.
- ALL WORK TO STOP IF DUST CONTINUES TO EXCEED THE ABOVE METHODS HAVE BEEN UNDERTAKEN

NOISE

ENSURE ALL BUILDING WORK THAT GENERATES NOISE IS CONDUCTED WITHIN THE TIME PERIODS DETAILED IN INTERIM CONSTRUCTION NOISE GUIDELINE, JULY 2009.

BUILDING WORK DETAILS	MONDAY TO FRIDAY	SATURDAY	SUNDAY AND PUBLIC HOLIDAYS
NORMAL CONSTRUCTION	6AM TO 8PM	8AM TO 1PM	NO WORK
BLASTING	9AM TO 5PM	8AM TO 8PM	NO BLASTING

IN ADDITION:

- SCHEDULE NOISY ACTIVITIES FOR THE LEAST SENSITIVE TIMES OF THE DAY SUCH AS MID-MORNING OR MID-AFTERNOON.
- SELECT MACHINERY THAT PRODUCES LESS NOISE; AND
- ENSURE MACHINERY IS WELL MAINTAINED.

DISPOSAL OF SPOIL

BEFORE DISPOSAL OF SPOIL OFF SITE, THE FOLLOWING INFORMATION MUST BE PROVIDED TO ENVIRONMENT ACT:

- WHERE WILL ORIGINATE FROM
- WHO IS DISPOSING OF THE SPOIL
- WHERE THE SPOIL WILL BE TAKEN
- THE AMOUNT OF SPOIL TO BE TAKEN AWAY
- DESCRIPTION OF THE TYPE OF SPOIL TAKEN AWAY

- DETAILS OF HOW RECORDS WILL BE KEPT; AND
- TIME FRAME TO COMPLETE WORKS TO THE SATISFACTION OF EPA NSW. SPOIL MAY BE TAKEN TO AN APPROVED LANDFILL SITE WITHOUT APPROVAL. HOWEVER, IF THE SPOIL IS TAKEN TO AN AREA OTHER THAN APPROVED LANDFILL SITE, ENSURE THE ACCEPTOR OF THE SPOIL IS AWARE OF THE REQUIREMENTS SETOUT IN SECTION 14.3 OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT (NSW) 1997.

FIRE

BURNING OF WASTE MATERIALS ON THE SITE, SUCH AS PLASTICS, CHEMICALS OR WOOD THAT MAY BE PAINTED, CHEMICALLY TREATED OR CONTAMINATED WITH CHEMICALS IS ILLEGAL. A FIRE MAY BE PERMITTED FOR HEATING PURPOSES PROVIDED IT IS IN A BRAZIER OR CONSTRUCTED FIREPLACE. ONLY SEASONED, UNTREATED TIMBER CAN BE BURNT FOR HEATING PURPOSES.

SEDIMENT CONTROL NOTES

- SEDIMENT AND EROSION CONTROL DEVICES TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO STRIPPING OF SITE TOPSOIL,
- STOCK PILE/S TO BE LOCATED AWAY FROM DRAINAGE LINES AND SURFACE FLOW PATHS, CONTOURED STRIATIONS OR FURROWS TO BE PROVIDED TO STOCK PILES TO MINIMISE EROSION.
- STABILISED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PRIOR TO ACCESS TO SITE BY CONSTRUCTION VEHICLES. AGGREGATE TO BE TURNED WHEN SEDIMENT BUILDS UP AND RENEWED WHEN REQUIRED.
- WHERE STORMWATER DRAINAGE IS INSTALLED TO INTERNAL ROADWORKS, PROVIDE GRATED SUMP FILTER IN ACCORDANCE WITH EPA GUIDELINES.
- BUILDER IS TO ESTABLISH A MAINTENANCE PROGRAM FOR SEDIMENT & EROSION CONTROL DEVICES TO ENSURE INSPECTION AFTER SIGNIFICANT RAINFALL AND THAT ANY REPAIRS NECESSARY ARE QUICKLY ATTENDED TO.
- ALL NEW CONSTRUCTION WORK MUST BE CONTAINED WITHIN THE SITE EXCEPT FOR APPROVED SERVICE CONNECTIONS AND ROADWORKS.
- LIMIT ACCESS TO SITE DURING AND IMMEDIATELY AFTER WET WEATHER.
- REMOVE ANY SOIL FROM ROADS ADJACENT TO THE SITE AT THE END OF EACH DAY.
- NO STORAGE OF CONSTRUCTION MATERIALS, PARKING OF VEHICLES NOR EQUIPMENT PERMITTED OUTSIDE OF BLOCK WITHOUT TAMS APPROVAL.
- NO SITE SHEDS, STORAGE SHEDS, SITE AMENITIES TO BE ERECTED OUTSIDE OF BLOCK WITHOUT QPRC APPROVAL.
- PROVIDE KERBSIDE FILTER ROLL TO SUMPS / STORMWATER INLETS ADJACENT TO THE SITE AND ANY ADDITIONAL SUMPS AS DETAILED.
- KERBSIDE FILTER ROLLS TO BE REMOVED, CLEANED AND REINSTATED ON A WEEKLY BASIS AT A MINIMUM. TRAPPED SEDIMENT ABOUT SUMPS IS ALSO TO BE REMOVED. CLEANING IS ALSO TO TAKE PLACE IMMEDIATELY AFTER PERIODS OF RAINFALL DURING CONSTRUCTION.
- ALL SERVICE TRENCHES TO BE BACKFILLED WITHIN 24 HOURS OF INSPECTION.
- EXCESS SOIL IS TO BE DISPOSED AT AN ENVIRONMENT PROTECTION AUTHORITY APPROVED LOCATION.
- THE SITE FOREMAN IS TO CONTACT ENVIRONMENT PROTECTION AUTHORITY (131 555) TO ARRANGE A SITE INSPECTION AND ENDORSEMENT OF SEDIMENT AND EROSION CONTROL MEASURES PRIOR TO WORKS COMMENCING.
- THE SITE FOREMAN IS TO CONTACT ENVIRONMENT PROTECTION AUTHORITY (131 555) TO DISCUSS ANY MAJOR CHANGES TO SEDIMENT AND EROSION CONTROLS ON SITE PRIOR TO IMPLEMENTING THE CHANGES.
- THE SITE FOREMAN WILL ENSURE CONTRACTORS ACCESS AND EXIT THE SITE USING ONLY ENVIRONMENT PROTECTION AUTHORITY APPROVED STABILISED ACCESS/EXIT POINTS AS DETAILED ON ENDORSED SEDIMENT AND EROSION CONTROL PLANS.
- THE CONTRACTOR TO LIMIT STRIPPING OF TOPSOIL AND REMOVAL OF VEGETATION TO AREAS ESSENTIAL FOR UNDERTAKING THE WORKS.
- DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION AS SOON AS PRACTICABLE.
- THE CONTRACTOR SHALL LIMIT VEHICLES AND PLANT MOVEMENT TO PARKING AREAS AND ACCESS ROUTES AS APPROVED OR ONLY IN AREAS WHERE WORK IS PROCEEDING.
- THE CONTRACTOR IS NOT ALLOWED TO PARK ON OR DISTURB ROAD VERGES EXCEPT WHERE NEW DRAINAGE LINES ARE REQUIRED.
- CONTRACTOR TO RETAIN A COPY OF THE APPROVED "EROSION AND SEDIMENT CONTROL PLAN" DURING LAND DEVELOPMENT IN THE SITE OFFICE.
- SERVICE EXCAVATIONS SHALL BE LEFT OPEN FOR THE MINIMUM PRACTICAL TIME AND SHALL NOT BE OPENED FOR A GREATER LENGTH THAN PIPES CAN BE REMOVED IN A DAY. PROGRESSIVELY CONSTRUCT WORK AND STABILISE.
- ALL WATER DISCHARGED FROM BASEMENT EXCAVATIONS AFTER RAIN EVENTS TO BE TREATED AS PER ENVIRONMENT GUIDELINES BEFORE BEING PUMPED OUT
 - TURBIDITY LESS THAN 50 NTA ON TURBIDITY TUBE
 - PH IN RANGE OF 6.5 TO 8.5

MAINTENANCE SCHEDULE

WEEKLY:

- TURN OVER STABILISED CONSTRUCTION ENTRY MATERIAL AND RENEW WHEN REQUIRED.
- CHECK AND REINSTATE SILT CONTROL FENCES

DAILY:

- SWEEP AND REMOVE DIRT AND ANY OTHER BUILDING MATERIAL FROM GUTTERS, FOOTPATHS OR ROADWAYS ADJACENT TO THE SITE BY CLOSE OF BUSINESS AND PRIOR TO RAIN AND WHEN REQUIRED. ALL NECESSARY STEPS SHOULD BE TAKEN THAT ARE PRACTICAL AND REASONABLE TO MINIMISE DUST POLLUTION ON LAND DEVELOPMENT AND CONSTRUCTION SITE.

DURING/AFTER WET WEATHER:

- LIMIT CONSTRUCTION VEHICLE ACCESS TO SITE DURING AND IMMEDIATELY FOLLOWING WET WEATHER.

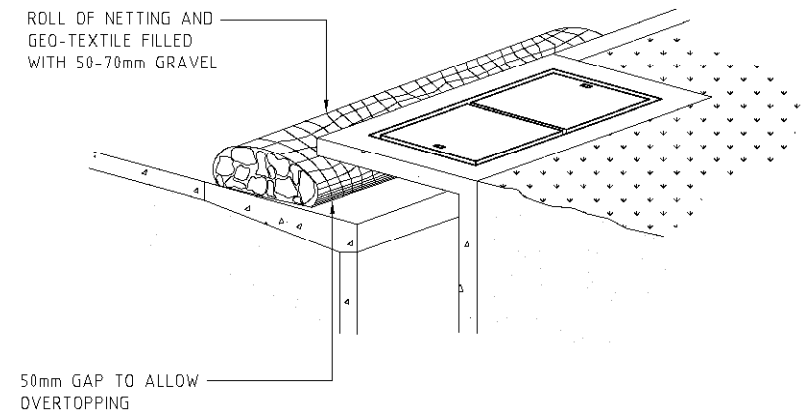
- SITE AREA: 704.80m²

- VOLUME OF MATERIAL TO BE REMOVED FROM SITE IS APPROX: TBC
- LOCATION FOR MATERIAL TO BE TRANSPORTED TO: TBC

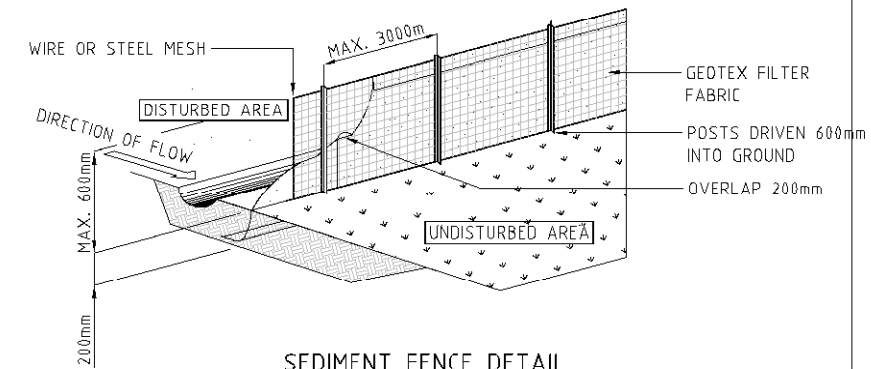
SITE CONTACT	PERSON	MOBILE
TBC	TBC	TBC

CONSTRUCTION NOTES

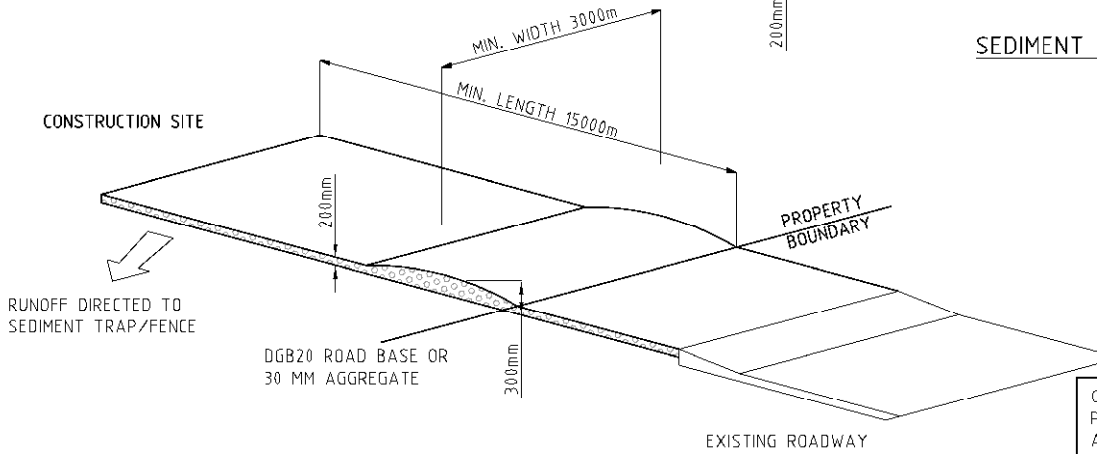
- STRIP TOPSOIL AND LEVEL SITE.
- COMPACT SUB-GRADE.
- COVER AREA WITH NEEDLE PUNCHED GEO-TEXTILE.
- CONSTRUCT 200MM THICK PAD OVER GEO-TEXTILE USING ROAD BASE OR 30MM AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
- CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.



KERB INLET CONTROL DETAIL
NTS



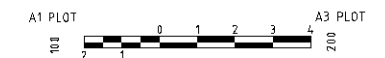
SEDIMENT FENCE DETAIL
NTS



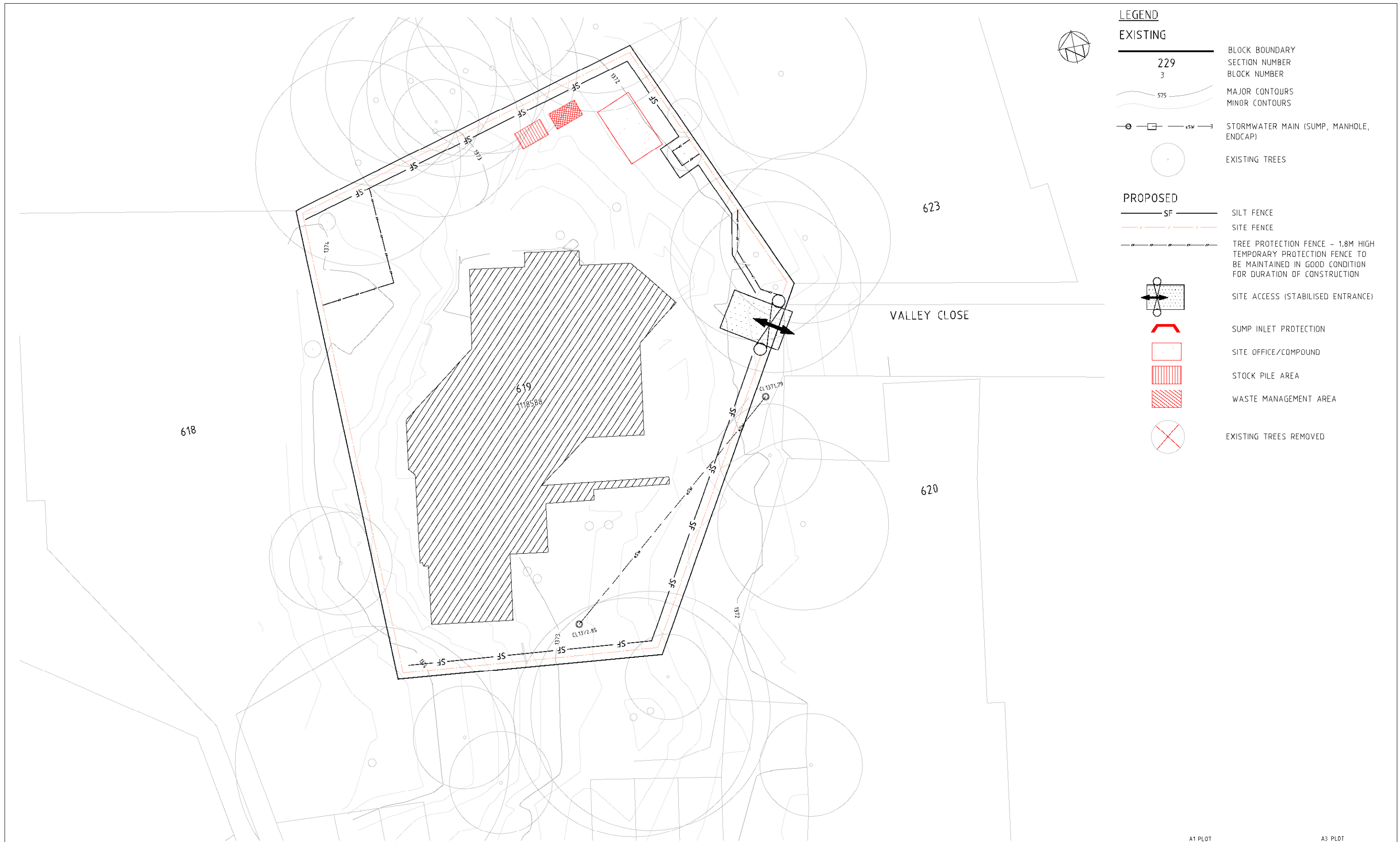
SITE ACCESS DETAIL
NTS

GEO-TEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUB-GRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS

GEO-TEXTILE MAY BE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500N



No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECTS	CLIENT	PROJECT	DRAWING TITLE
B	AMENDED FOR COUNCIL COMMENTS	AN	03.11.2021	HH			THREDBO LOT 619 DP 118588	CONCEPT SEDIMENT AND EROSION CONTROL NOTES
A	FOR DA SUBMISSION	AN	01.03.2021	HH				
						PROJECT No. 8046-01		DRAWING No. C50
						SHEET No. AS SHOWN		AMDT B



LEGEND	
EXISTING	
	BLOCK BOUNDARY
	SECTION NUMBER
	BLOCK NUMBER
	MAJOR CONTOURS
	MINOR CONTOURS
	STORMWATER MAIN (SUMP, MANHOLE, ENDCAP)
	EXISTING TREES
PROPOSED	
	SILT FENCE
	SITE FENCE
	TREE PROTECTION FENCE - 1.8M HIGH TEMPORARY PROTECTION FENCE TO BE MAINTAINED IN GOOD CONDITION FOR DURATION OF CONSTRUCTION
	SITE ACCESS (STABILISED ENTRANCE)
	SUMP INLET PROTECTION
	SITE OFFICE/COMPOUND
	STOCK PILE AREA
	WASTE MANAGEMENT AREA
	EXISTING TREES REMOVED



No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECTS
C	AMENDED FOR COUNCIL COMMENTS	AN	03.11.2021	HH	
B	AMENDED FOR DA SUBMISSION	AN	31.03.2021	HH	
A	FOR DA SUBMISSION	AN	30.03.2021	HH	

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CLIENT

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APPROVED	AN	DATE	30.03.2021
CHECKED	AN	DATE	30.03.2021
DESIGNED BY	HH		
DRAWN BY	HG		
CAD FILE			
SCALE	AS SHOWN	SHEET No.	

PROJECT

**THREDBO
LOT 619
DP 1118588**

DRAWING TITLE		
CONCEPT SEDIMENT AND EROSION CONTROL PLAN		
PROJECT No.	DRAWING No.	AMDT
8046-01	C51	C