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AHD

#### GENERAL ENVIRONMENTAL MANAGEMENT

- 1. BEFORE COMMENCING WORKS, THE COORDINATOR SHALL ADVISE TRANSPORT CANBERRA CITY SERVICES (TCCS) IN WRITING THAT THE PROTECTIVE MEASURES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED LANDSCAPE MANAGEMENT PROTECTION PLAN (LMPP). RANDOM AUDITS WILL BE UNDERTAKEN BY TCCS TO ENSURE COMPLIANCE: FAILURE TO COMPLY MAY INCUR THE ISSUE OF A STOP WORK NOTICE.
- 2. ALL WORKS SHALL BE CONTAINED WITHIN THE AUTHORISED SITE EXCEPT FOR APPROVED SERVICE CONNECTIONS IN THE VERGE OR OTHER APPROVED EXCEPTIONS
- 3. DURING THE PROGRESS OF THE WORKS ALL EXISTING VERGE GRASS COVER SHALL BE MAINTAINED IN ITS PRE-EXISTING CONDITION. PROTECTIVE MEASURES SHALL INCLUDE REGULAR WATERING TO MAINTAIN GRASS AND TREES IN GOOD CONDITION.
- 4. WHERE THE SURFACE IS GRASS OR BARE SOIL WITHOUT TREES, NO PROTECTION IS REQUIRED. WHERE TOPSOIL AND GRASS OR OTHER APPROVED SURFACES, ARE INSTALLED AT THE COMPLETION OF THE WORKS IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS".

## **SUPERVISION**

1. FOR ALL WORKS, OTHER THAN MINOR WORKS (I.E. MINOR IN COMPLEXITY AND/OR SCOPE OF WORKS AND CONFIRMED AS MINOR WORKS BY TCCS), AND UNLESS OTHERWISE APPROVED BY TCCS, A SUITABLY QUALIFIED LANDSCAPE ARCHITECT OR HORTICULTURIST SHALL BE EMPLOYED TO ENSURE THAT THE WORK IN THE VERGE MEETS THE REQUIREMENTS. THE ARCHITECT/HORTICULTURIST SHALL ALSO BE PRESENT DURING ANY CULTIVATION OR RESTORATION OF THE VERGE WHICH AFFECTS PLANT MATERIAL AND SHALL PROVIDE CERTIFICATION, ENDORSED BY THE COORDINATOR, THAT ALL WORK, CULTIVATION AND RESTORATION HAVE BEEN PERFORMED TO INDUSTRY STANDARDS.

#### STORAGE OF CONSTRUCTION MATERIALS

1. THE STORAGE OF CONSTRUCTION MATERIALS AND THE PARKING OF VEHICLES OR EQUIPMENT ON VERGES OR ADJACENT PUBLIC OPEN SPACES IS NOT PERMITTED WITHOUT PRIOR APPROVAL FROM TCCS. WHERE THERE IS NO ALTERNATIVE AVAILABLE OTHER THAN TO USE THESE AREAS FOR STORAGE AND/OR PARKING, THE COORDINATOR MAY LODGE AN APPLICATION WITH THE LMPP REQUESTING APPROVAL FOR THE USE OF PUBLIC LAND FOR THE DESIGNATED PURPOSES. APPROVAL MAY BE GIVEN BY TCCS SUBJECT TO CERTAIN TERMS AND CONDITIONS OF USE.

## SITE ACCOMMODATION

1. SITE SHEDS, STORAGE SHEDS, SITE AMENITIES OR BILLBOARDS ARE NOT TO BE ERECTED ON VERGES OR PUBLIC OPEN SPACES WITHOUT PRIOR APPROVAL. SHOULD THERE BE NO ALTERNATIVE, THE COORDINATOR MAY LODGE AN APPLICATION WITH THE LMPP REQUESTING APPROVAL TO ERECT SUCH A STRUCTURE ON PUBLIC LAND. THE ERECTION OF SITE ACCOMMODATION MAY BE APPROVED SUBJECT TO THE COORDINATOR'S AGREEMENT TO COMPLY WITH THE TERMS AND CONDITIONS SPECIFIED BY TCCS AND OBTAINING A PERMIT UNDER THE ROADS AND PUBLIC PLACES ACT 1937 FROM TCCS.

## PROTECTIVE FENCING

- 1. ALL TEMPORARY PROTECTIVE FENCES ERECTED TO PROTECT EXISTING ASSETS SHALL BE IN ACCORDANCE WITH THE APPROVED LMPP DRAWING. FENCING SHALL BE ERECTED BEFORE THE COMMENCEMENT OF ANY SITE WORKS AND REMOVED AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITY EXCEPT DURING VERGE RESTORATION. THE FENCE SHALL REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION PERIOD.
- 2. EXISTING TREES, PLANTINGS AND GRASS SHALL BE FENCED OFF TO ENCLOSE THE STREET VERGE, PUBLIC OPEN SPACE OR UNLEASED TERRITORY LAND AREA. UNLESS OTHERWISE APPROVED BY TCCS, PROTECTIVE FENCING SHALL BE LOCATED:

  × ALONG THE DRIP-LINE OF EACH TREE (AS A MINIMUM), AND

  × 1.2m FROM THE BACK OF THE KERB FOR THE FULL FRONTAGE OF THE LEASE, ALONG THE PROPERTY BOUNDARY AND ALONG THE APPROVED DRIVEWAY ACCESS TO ENSURE THAT THE
- 3. USE OF TEMPORARY 1800MM TALL CONTINUOUS MESH FENCE SUPPORTED BY STEEL POSTS WITH CONCRETE BASES, OR PREFABRICATED FENCING PANELS WITH CONCRETE BASES, IS MANDATORY. ANY VARIATION FROM THIS REQUIREMENT SHALL BE ACCOMPANIED BY WRITTEN APPROVAL FROM TCCS.
- 4. EXISTING VERGE FOOTPATHS SHALL BE MAINTAINED. ALL EXISTING VERGE FOOTPATHS AND DRIVEWAYS SHALL REMAIN UNOBSTRUCTED THROUGHOUT THE CONSTRUCTION PERIOD TO PROVIDE SAFE PEDESTRIAN MOVEMENT AT ALL TIMES UNLESS AN ALTERNATIVE IS APPROVED BY TCCS.
- 5. WHERE A CONSTRUCTED FOOTPATH OR CYCLEWAY EXISTS WITHIN THE VERGE, PROTECTIVE FENCING INCLUDING THE CONCRETE PEDESTALS SHALL BE ERECTED TO PROVIDE A CLEAR AND UNOBSTRUCTED SET BACK OF 600mm FROM EACH SIDE OF THE FOOTPATH/CYCLEWAY IN ALL CASES TO ENSURE SAFE PASSAGE FOR CYCLISTS AND PEDESTRIANS.
- 6. IF THERE IS NO CONSTRUCTED PUBLIC FOOTPATH ON THE VERGE A FENCED CLEARWAY OF 1.8m IN WIDTH SHALL BE MAINTAINED FOR THE ENTIRE FRONTAGE OF THE LEASE TO ALLOW FOR CYCLISTS AND PEDESTRIANS.
- 7. ANY DEVIATIONS FROM THE DISTANCES SPECIFIED IN THIS CLAUSE DEEMED NECESSARY BECAUSE OF LOCAL RESTRAINTS REQUIRE PRIOR APPROVAL FROM TCCS.
- 8. ACCESS GATES INTO THE SITE SHALL SWING INTO THE SITE AND NOT BE CAPABLE OF BLOCKING PEDESTRIAN ACCESS ALONG THE VERGE OR VEHICULAR TRAFFIC ON THE ROAD.
- 9. FENCING SHALL NOT BE REMOVED FOR SERVICE INSTALLATION ACROSS THE VERGE WITHOUT PRIOR APPROVAL FROM TCCS FOR THE SERVICE INSTALLATION.
- 10. WHERE APPROVAL HAS BEEN GRANTED, THE FENCE SHALL BE REALIGNED TO PROVIDE A LANE FOR SERVICE TRENCHING BUT FENCES SHALL BE RE-ERECT TO ENCLOSE TREES BEFORE TRENCHING COMMENCES. UPON COMPLETION OF TRENCHING, THE FENCE SHALL BE RETURNED TO ITS ORIGINAL ALIGNMENT.

## **EXISTING TREES**

ALL TREES LOCATED IN THE ROAD RESERVE, VERGE, PUBLIC OPEN SPACE AND ON UNLEASED TERRITORY LAND, SHALL BE RETAINED AND MUST REMAIN UNDAMAGED. THE LMPP PROCESS REQUIRES THE COORDINATOR TO IDENTIFY ANY TREES THAT MAY BE AFFECTED BY THE WORKS AND TO SUBMIT A REQUEST FOR APPROVAL TO PROCEED WITH THE WORK CLEARLY IDENTIFYING THE NATURE OF THE WORK AFFECTING THE TREE AND PROTECTIVE MEASURES PROPOSED TO MINIMISE DAMAGE TO THE TREE. WRITTEN AUTHORISATION FROM TCCS IS REQUIRED PRIOR TO ANY WORK AFFECTING THE TREE TAKING PLACE. AUTHORISATION WILL BE SUBJECT TO:

× EXISTING CANOPY CLEARANCE NOT BEING ALTERED;

- CROWNS AND APEX OF CANOPIES NOT BEING ALTERED OR REDUCED;
   LIFTING EQUIPMENT AND LOAD CAPABLE OF OPERATING IN A MANNER THAT IT CLEARS THE HEIGHT AND WIDTH OF THE TREE CANOPY WITHOUT DAMAGING THE CROWN, AND;
   CONSTRUCTION EQUIPMENT CAN PASS BENEATH THE TREES' LOWEST LIMB THROUGH THE
- 2. THE MAJORITY OF TREE ROOTS GROW IN THE TOP 300mm OF SOIL. THESE ARE THE FEEDER ROOTS, OFTEN VERY FINE ROOTS THAT PROVIDE THE TREE WITH WATER, OXYGEN AND NUTRIENTS. THESE ROOTS TYPICALLY GROW FROM THE TRUNK OF THE TREE TO WELL BEYOND

DESIGNATED DRIVEWAY ACCESS ROUTE.

ITS 'DRIP-LINE' (THE CANOPY EDGE).

- 3. EXCAVATION WITHIN THE DRIP ZONE OF A TREE DOES CONSIDERABLE DAMAGE TO ITS ROOT SYSTEM. IT CAN AFFECT TREE STABILITY AND TREE HEALTH TO SUCH AN EXTENT THAT IT WILL LEAD TO THE DECLINE AND POSSIBLE DEATH OF THE TREE OVER A PERIOD OF YEARS.
- 4. EXCAVATION THAT OCCURS WITHIN THE DRIP ZONE OF A TREE SHALL BE RESTRICTED TO ONE SIDE OF THE TREE ONLY AND SHALL HAVE PRIOR APPROVAL FROM TCCS.
- 5. WHERE EXCAVATION IS APPROVED, THE FOLLOWING MEASURES SHALL BE ADOPTED FOR TREE PROTECTION:
- DO NOT SEVER LARGE ROOTS (>30mm DIAMETER) CLOSER THAN HALFWAY FROM THE DRIP-LINE TO THE TRUNK;
   LOCATE THESE ROOTS BY HAND TRENCHING TO A DEPTH OF 300mm BEFORE ANY MECHANICAL
- TRENCHING IS UNDERTAKEN;

  × CUT ALL ROOTS CLEANLY WITH EQUIPMENT SPECIFICALLY DESIGNED FOR THIS PURPOSE OR
- BY SUITABLE PRUNING EQUIPMENT;

  × PROTECT ROOTS EXPOSED FROM DESICCATION BY LIGHTLY WATERED OR COVERING WITH
- HESSIAN, WHICH MUST BE KEPT MOIST, AND

  × MAINTAIN THE GOOD HEALTH OF THE TREES THAT HAVE HAD DISTURBANCE IN THEIR ROOT

  ZONE BY CONTINUAL WATERING, AT NO TIME SHALL THE DISTURBED AREA BE ALLOWED TO

  DRY OUT TO THE DETRIMENT OF THE TREES HEALTH.

#### SITE ACCESS

- 1. SITE ACCESS SHALL BE BY THE EXISTING DRIVEWAY ACCESS POINTS FOR THE WORKS.
- 2. IN SOME CASES CONSIDERATION MAY BE GIVEN TO ALLOWING NEW ACCESS POINTS ACROSS PUBLIC LAND, HOWEVER, ALTERNATIVE OR ADDITIONAL ACCESS POINTS REQUIRE APPROVAL FROM TCCS. WHERE APPROVAL HAS BEEN GRANTED, THE SITE ACCESS SHALL BE POSITIONED MIDWAY BETWEEN TWO EXISTING TREE TRUNKS DEPENDENT ON THE DISTANCE BETWEEN TREES. ACCESS SHALL NOT OCCUR ON TWO SIDES OF A TREE WITHIN THE APPROVED CLEARANCE DIMENSION.
- 3. CONSTRUCTION TECHNIQUE SHALL MINIMISE THE NEED FOR EXCAVATION ACROSS THE VERGE.
- 4. ACCESS ACROSS ADJOINING PUBLIC OPEN SPACES, PARKS, RECREATIONAL RESERVES, ADJOINING PROPERTIES E.G. SCHOOL PLAYGROUNDS, COMMUNITY HALLS ETC, IS PROHIBITED WITHOUT PRIOR WRITTEN AUTHORISATION FROM TCCS, AND ANY OTHER ASSET OWNER WHERE APPLICABLE.

# SERVICES AND UTILITIES TO SITE

- THE COORDINATOR SHALL COORDINATE AND COLLATE ALL APPROVALS FOR PROPOSED SERVICES WITHIN THE AREA.
- APPROVAL FOR TRENCH LOCATIONS AND EXCAVATIONS WITHIN THE VERGE SHALL BE OBTAINED THROUGH THE RELEVANT TCCS AGENCIES AT THE PLANNING AND DESIGN STAGES. APPROVAL IS SUBJECT TO THE FOLLOWING REQUIREMENTS:

  × IF THE PROPOSED EXCAVATION IS WITHIN THE CANOPY SPREAD OF ANY TREE, BORING OR TUNNELING BELOW THE ROOT ZONE MUST BE UNDERTAKEN;
- SHARED TRENCHING FOR SERVICES IS MANDATORY;THE NUMBER OF VERGE CROSSINGS SHALL BE MINIMISED;
- × EXCAVATION FOR SERVICES ACROSS VERGE (I.E. AT RIGHT ANGLES TO KERB OR PROPERTY
- LINE) SHALL BE MIDWAY BETWEEN THE TREE TRUNKS

  × ANY SERVICE INSTALLATION WITHIN 5.0m OF AN EXISTING TREE TRUNK, OR WITHIN THE TREE CANOPY, REQUIRES PRIOR APPROVAL.

# SERVICES AND UTILITIES ALONG ROAD RESERVES

- 3. THE COORDINATOR SHALL COORDINATE ALL SERVICE APPROVALS: APPROVAL BY TCCS FOR TRENCH LOCATIONS SHALL BE OBTAINED AS PART OF THE LMPP PROCESS.
- 4. TO MINIMISE DAMAGE AND/OR DISTURBANCES TO THE ROOTS OR ROOT ZONE AND SUBJECT TO APPROVAL BY TCCS, ANY NEW OR UPGRADED SERVICES PARALLEL TO THE KERB OR PROPERTY LINE SHALL BE INSTALLED ON THE FOLLOWING ALIGNMENTS:

  × WITHIN ROAD PAVED AREA:
- × BELOW THE ROOT ZONE IF THE EXCAVATION REQUIRED IS WITHIN THE CANOPY SPREAD OF
- ANY TREE;
  × BELOW THE EXISTING FOOTPATH ON THE PROPERTY LINE, AND
- \* BELOW THE EXISTING FOOTPATH ON THE PROPER \* IMMEDIATELY BEHIND THE KERB.

## IRRIGATION

1. ACT PARKS & CONSERVATION (P&C) ACTIVELY DISCOURAGES THE USE OF IN-GROUND IRRIGATION SYSTEMS AND GENERALLY DOES NOT ENDORSE THEIR INSTALLATION IN THE VERGE. HOWEVER, A SYSTEM OF QUICK-COUPLERS AT THE LEASE EDGE OF THE VERGE MAY BE INSTALLED SUBJECT TO APPROVAL OF THE IRRIGATION PLAN BY P&C. A PREFERRED ALTERNATIVE IS THE PLANTING OF DROUGHT TOLERANT GRASSES AND SHRUBS THAT ARE NOT RELIANT ON WATERING TO SURVIVE.

## VERGE INFRASTRUCTURE CONDITION AND RESTORATION

- 1. THE COORDINATOR SHALL NOTIFY TCCS AT THE COMPLETION OF WORK AND OBTAIN APPROVAL PRIOR TO COMMENCEMENT OF ANY VERGE RESTORATION. DURING VERGE RESTORATION, TOPSOIL SHALL NOT BE REMOVED AND THE SOIL LEVEL SHALL NOT BE CHANGED WITHIN THE DRIP ZONE OF TREES OR AS OTHERWISE APPROVED AND, UPON COMPLETION OF THE WORKS, VERGES SHALL HAVE ESTABLISHED APPROPRIATE GRASS COVER AS APPROVED BY P&C, E.G. DRYLAND GRASS, NATIVE GRASS OR COUCH.
- 2. IF THE STANDARD OF GRASS COVER ON THE VERGE NEEDS TO BE IMPROVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:
- WITHIN THE ROOT ZONE OF TREES, LIGHTLY CULTIVATE THE SOIL IN ONE DIRECTION ONLY TO BETWEEN 25mm TO 50mm DEPTH (50mm MAXIMUM TO MINIMISE DAMAGE TO TREE ROOTS), AVOID MAJOR ROOTS AND KEEP A MINIMUM OF 1.0m AWAY FROM TREE TRUNKS;
   OUTSIDE THE ROOT ZONE OF TREES NORMAL CULTIVATION PRACTICE APPLIES;
- × ADD 'B TYPE' TOPSOIL AT 25mm TO 50mm DEPTH. LEVEL THE TOPSOIL AND ADD NPK FERTILISER (EQUIVALENT TO MULTIGRO) AT 40 GSM (grams per meter<sup>2</sup>) AND;
- × LAY TURF OR SOW SEED OF SUITABLE DROUGHT TOLERANT SPECIES AS SPECIFIED IN THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS. KEEP MOIST DURING ESTABLISHMENT.
- 3. ALL RESTORATION WORK SHALL BE APPROVED BY TRANSPORT CANBERRA CITY SERVICES (TCCS) AND CARRIED OUT BY APPROVED OPERATORS.

# LEGEND

— — — SITE BOUNDARY

SITE / SECURITY FENCE

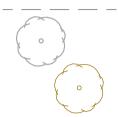
VERGE FENCE

SITE GATES (INDICATIVE)
-GATES TO OPEN INTO SITE

STABILISED CONSTRUCTION ENTRANCE LOCATION

SITE SHEDS (INDICATIVE)

— EXISTING CONTOUR



EXISTING TREE TO BE RETAINED ×(INDICATIVE SYMBOL SHOWN)

EXISTING TREE TO BE REMOVED

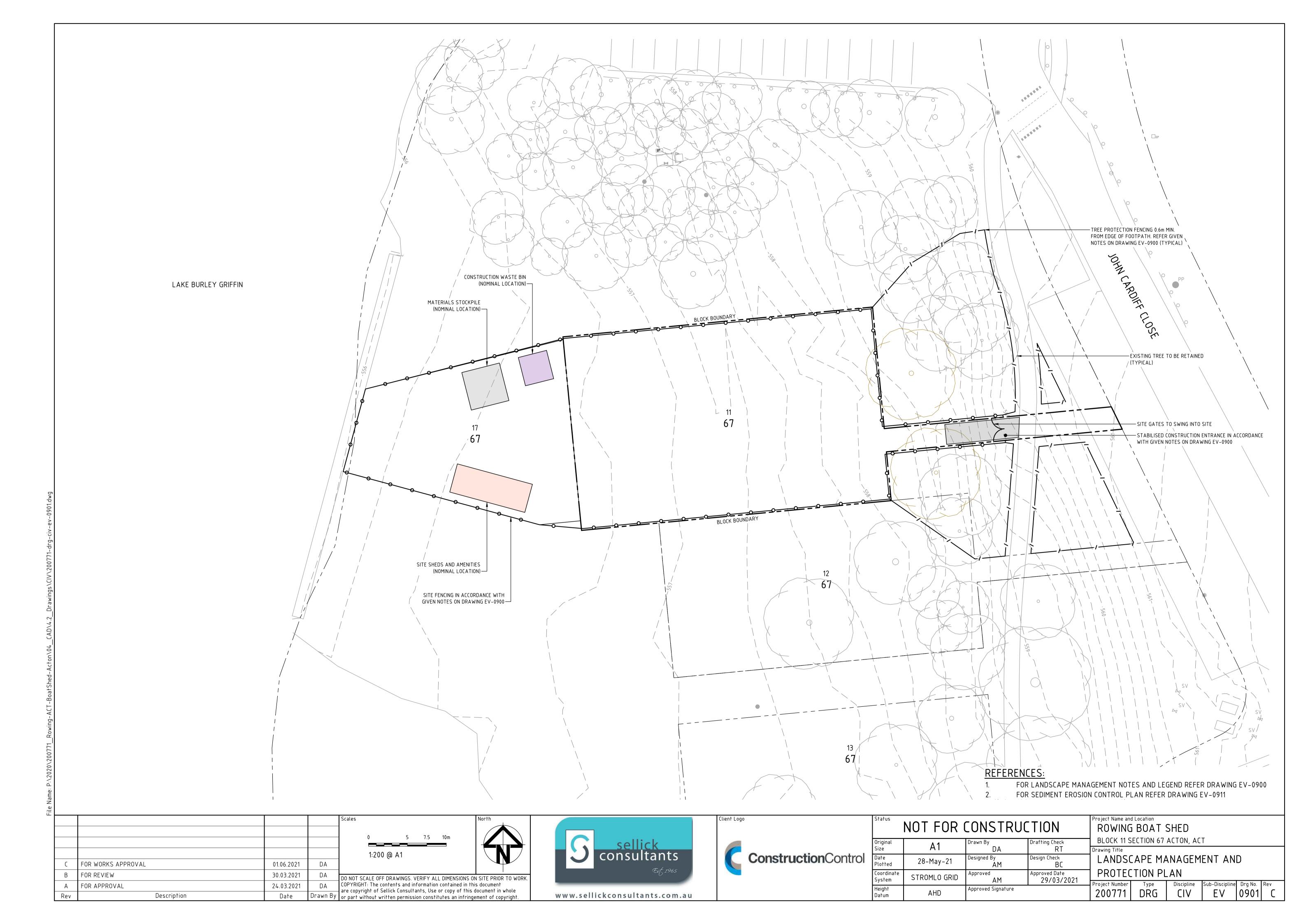
File Name: P:\2020\200771\_Rowing-ACT-BoatShed-Acton\04\_CAD\4.2\_Drawings\CIV\200771-dr



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Status	NOT FOR CONSTRUCTION				Project Name and Location ROWING BOAT SHED						
Original Size	A1	Drawn By  DA	Drafting Check RT	BLOCK 11 S	SECTION 67	ACTON, AC	T				
Date Plotted	28-May-21	Designed By AM	Design Check BC	LANDSCAPE MANAGEMENT							
Coordinate System	STROMLO GRID	Approved AM	Approved Date 29/03/2021	NOTES			la				
Height Datum	AHD	Approved Signature		Project Number 200771	DRG	Discipline CIV	Sub-Discipline <b>EV</b>	Drg No. <b>0900</b>	Rev <b>C</b>		



PROJECT MANAGER: TBC

SITE MANAGER: TBC

TOTAL SITE AREA: 1,089m<sup>2</sup>
AVERAGE EXISTING SITE SLOPE: 6.5%

### SEDIMENT CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH "ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT" (ENVIRONMENT PROTECTION AUTHORITY MARCH 2011) AND FULLY OPERATIONAL PRIOR TO STRIPPING OF SITE TOP SOIL.

- 2. 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.
- 3. 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.
- 4. WHERE UNDERGROUND STORMWATER DRAINAGE IS INSTALLED TO INTERNAL ROADWORKS, PROVIDE INLET FILTER.
- 5. ENVIRONMENT PROTECTION AGREEMENT TO BE TAKEN OUT BY CONTRACTOR WITH ENVIRONMENT PROTECTION AUTHORITY. (TELEPHONE 132 281)
- 6. ALL NEW CONSTRUCTION WORK MUST BE CONTAINED WITHIN THE SITE EXCEPT FOR APPROVED SERVICE CONNECTIONS AND ROADWORKS.
- 7. LIMIT ACCESS TO SITE DURING AND IMMEDIATELY AFTER WET WEATHER.
- 8. REGULARLY REMOVE ANY SOIL FROM ROADS ADJACENT TO THE SITE.
- 9. NO STORAGE OF CONSTRUCTION MATERIALS, PARKING OF VEHICLES NOR EQUIPMENT PERMITTED OUTSIDE OF BLOCK WITHOUT TCCS APPROVAL.
- 10. NO SITE SHEDS, STORAGE SHEDS OR SITE AMENITIES TO BE ERECTED OUTSIDE OF BLOCK WITHOUT TCCS APPROVAL.
- 11. PROVIDE KERBSIDE FILTER ROLL TO EXISTING SUMPS WHERE INDICATED.
- 12. KERBSIDE FILTER ROLLS TO BE REMOVED, CLEANED AND REINSTATED ON A WEEKLY BASIS AT A MINIMUM. TRAPPED SEDIMENT ABOUT SUMPS ALSO TO BE REMOVED. CLEANING IS ALSO TO TAKE PLACE IMMEDIATELY AFTER PERIODS OF RAINFALL DURING CONSTRUCTION.
- 13. ALL SERVICE TRENCHES TO BE BACK FILLED WITHIN 24 HOURS OF INSPECTION.
- 14. EXCESS SOIL IS TO BE DISPOSED AT AN ENVIRONMENT PROTECTION AUTHORITY APPROVED LOCATION.
- 15. THE SITE FOREMAN IS TO CONTACT THE ENVIRONMENT PROTECTION AUTHORITY (132281) TO ARRANGE A SITE INSPECTION AND ENDORSEMENT OF SEDIMENT AND EROSION CONTROL MEASURES PRIOR TO WORKS COMMENCING.
- 16. THE SITE FOREMAN IS TO CONTACT THE ENVIRONMENT PROTECTION AUTHORITY (132281) TO DISCUSS ANY PROPOSED MAJOR CHANGES TO SEDIMENT AND EROSION CONTROLS ON SITE PRIOR TO IMPLEMENTING THE CHANGES.
- 17. THE SITE FOREMAN IS TO ENSURE CONTRACTOR'S ACCESS AND EXIT THE SITE USING ONLY ENVIRONMENT PROTECTION AUTHORITY APPROVED STABILISED ACCESS/EXIT POINTS AS DETAILED ON ENDORSED SEDIMENT AND EROSION CONTROL PLANS.
- 18. DISCHARGE FROM THE POND IS PERMISSIBLE WHEN THE WATER pH IS 6.5–8.5 AND IS CLARIFIED TO OR AT BELOW 60mg/L (50NTU). IF SEDIMENT LEVEL IS GREATER, THEN PRIOR TO DISCHARGE, THE DAM MUST BE DOSED WITH EITHER ALUM OR GYPSUM AND ALLOWED TO SETTLE UNTIL THE SEDIMENT IS LESS THAN 60mg/L (50NTU).
- 19. WATER LEVEL TO BE MAINTAINED AT LESS THAN 20% OF CAPACITY TO ALLOW RUNOFF STORAGE DURING A RAIN EVENT.
- 20. REGULAR DREDGING OF THE DAM MUST BE CARRIED OUT TO REMOVE SILT.
- 21. SITE DRAWING AND DETAILS MUST BE PROVIDED TO ENVIRONMENT PROTECTION AUTHORITY, FOR APPROVAL PRIOR TO WORKS COMMENCING.

# WASTE NOTES

1. WASTE ENCLOSURE(S) ARE TO BE USED FOR ALL RUBBISH ON SITE AND RUBBISH REMOVED FROM ENCLOSURE(S) WHEN REQUIRED OR FULL.

# DISPOSAL OF SPOIL

PROTECTION AUTHORITY.

PRIOR TO ANY WORKS COMMENCING INVOLVING EXPORT OF SPOIL GREATER THAN 100m³, THE FOLLOWING INFORMATION MUST BE PROVIDED TO THE ENVIRONMENT PROTECTION AUTHORITY VIA EMAIL (environment.protection@act.gov.au):

- 1. WHERE THE SPOIL WILL ORIGINATE FROM: WHO IS DISPOSING OF THE SPOIL: WHERE THE SPOIL WILL BE TAKEN: THE AMOUNT OF SPOIL TO BE TAKEN AWAY;
- MOVEMENT DATES AND CONTACT DETAILS: DESCRIPTION OF THE TYPE OF SPOIL TAKEN AWAY:DETAILS OF HOW RECORDS WILL BE KEPT; AND
- 3. TIME FRAME TO COMPLETE THE WORKS TO THE SATISFACTION OF THE ENVIRONMENT
- 4. SPOIL MAY BE TAKEN TO AN APPROVED LANDFILL SITE WITHOUT APPROVAL. IF THE SPOIL IS TO BE TAKEN TO AN AREA OTHER THAN AN APPROVED LANDFILL SITE, ENSURE THE ACCEPTOR OF THE SPOIL IS AWARE OF THE REQUIREMENTS SETOUT IN SECTION 8.2 OF THE ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT.

#### NOISE

ENSURE ALL BUILDING WORK THAT GENERATES NOISE IS CONDUCTED WITHIN THE TIME PERIODS DETAILED IN SCHEDULE 2 OF THE ENVIRONMENT PROTECTION REGULATIONS 2005.

BUILDING WORK DETAILS	MONDAY TO SATURDAY	SUNDAY AND PUBLIC HOLIDAYS
INDUSTRIAL, CITY AND TOWN CENTRE AREAS	6AM TO 8PM	6AM TO 8PM
ANY OTHER AREA WHEN WORK COMPLETED WITHIN 2 WEEKS	7AM TO 6PM	8AM TO 8PM
ANY OTHER AREA WHEN WORK NOT COMPLETED WITHIN 2 WEEKS	7AM TO 6PM	CONSTRUCTION WORK MUST NOT EXCEED NOISE STANDARD

#### IN ADDITION:

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

#### 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:

- 1. RETAINING EXISTING VEGETATION WHERE POSSIBLE.
- 2. STRIPPING AREAS PROGRESSIVELY AND ONLY WHERE IT IS NECESSARY FOR WORKS TO OCCUR.
- 3. EMPLOYING STABILISING METHODS SUCH AS MATTING, GRASSING OR MULCH.
- 4. DAMPENING THE GROUND WITH A LIGHT WATER SPRAY (CONTACT THE ENVIRONMENT PROTECTION AUTHORITY FOR REQUIREMENTS DURING EXTREME DROUGHT CONDITIONS).
- 5. ROUGHENING SURFACE OF EXPOSED SOIL.
- 6. COVERING STOCKPILES AND LOCATING THEM WHERE THEY ARE PROTECTED FROM THE WIND.
- 7. RESTRICTING VEHICLE MOVEMENTS.
- 8. COVERING THE LOAD WHEN TRANSPORTING MATERIAL.
- 9. CONSTRUCTING WIND BREAKS SUCH AS WIND FENCES IN ACCORDANCE WITH THE BLUE BOOK.
- 10. 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 ARE BEING UNDERTAKEN, WORKS WILL CEASE IN THESE AREAS UNTIL CONDITIONS IMPROVE.
- 11. WATER SHALL BE APPLIED TO SUPPRESS DUST FROM OPEN EARTHWORKS AS WELL AS UNPROTECTED STOCKPILES.
- 12. AREAS OF COMPLETED EARTHWORKS SHALL BE PROGRESSIVELY REHABILITATED WITH DRYLAND GRASS AND FENCED OFF AS SOON AS PRACTICABLE TO PREVENT FURTHER EROSION.
- 13. THE CONTRACTOR SHALL CONTACT ICON WATER TO OBTAIN RECYCLED WATER FROM THE LOWER
- 14. 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.
- 15. DURING WINDY CONDITIONS, THE CONTRACTOR IS TO MINIMISE DUST GENERATING ACTIVITIES AND REGULARLY APPLY DUST SUPPRESSING MEASURES. IF DUST SUPPRESSION MEASURES FAIL THE CONTRACTOR IS TO CEASE DUST GENERATING ACTIVITIES.

# <u>FIR</u>

1. 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.

2. A FIRE MAY BE PERMITTED FOR HEATING PURPOSES PROVIDED IT IS IN A BRAZIER OR CONSTRUCTED FIREPLACE. ONLY SEASONED, UNTREATED TIMBER CAN BE BURNED FOR HEATING PURPOSES.

# MAINTENANCE SCHEDULE

# DAILY

. CHECK AND REINSTATE SILT CONTROL FENCES.

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

# <u>MONTHLY</u>

1. STABILISED CONSTRUCTION ENTRANCE AGGREGATE TO BE TURNED AND RENEWED.

# DURING/AFTER WET WEATHER:

LIMIT CONSTRUCTION VEHICLE ACCESS TO SITE DURING AND IMMEDIATELY FOLLOWING WET WEATHER. CHECK AND REINSTATE SEDIMENT EROSION CONTROL MEASURES AND CHECK ROAD.





Status	NOT FOR (	CONSTRUC	TION	Project Name and Location  ROWING BOAT SHED						
)riginal	A1	Drawn By	Drafting Check		ECTION 67	ACTON, AC	Τ			
Size	Al	DA	RT	Drawing Title						
)ate Plotted	28-May-21	Designed By AM	Design Check BC	SEDIMENT EROSION CONTROL						
oordinate System	STROMLO GRID	Approved AM	Approved Date 29/03/2021	NOTES			Colo Disciplina	D N-	D	
leight Jatum	AHD	Approved Signature	1	Project Number 200771	DRG	Discipline CIV	Sub-Discipline <b>EV</b>	Drg No. <b>0910</b>		

**LEGEND** 

SITE BOUNDARY

SITE / SECURITY FENCE

VERGE FENCE

SITE GATES (INDICATIVE)
-GATES TO OPEN INTO SITE

STABILISED CONSTRUCTION
ENTRANCE LOCATION

SITE SHEDS (INDICATIVE)

EXISTING CONTOUR

EXISTING TREE TO BE RETAINED ×(INDICATIVE SYMBOL SHOWN)

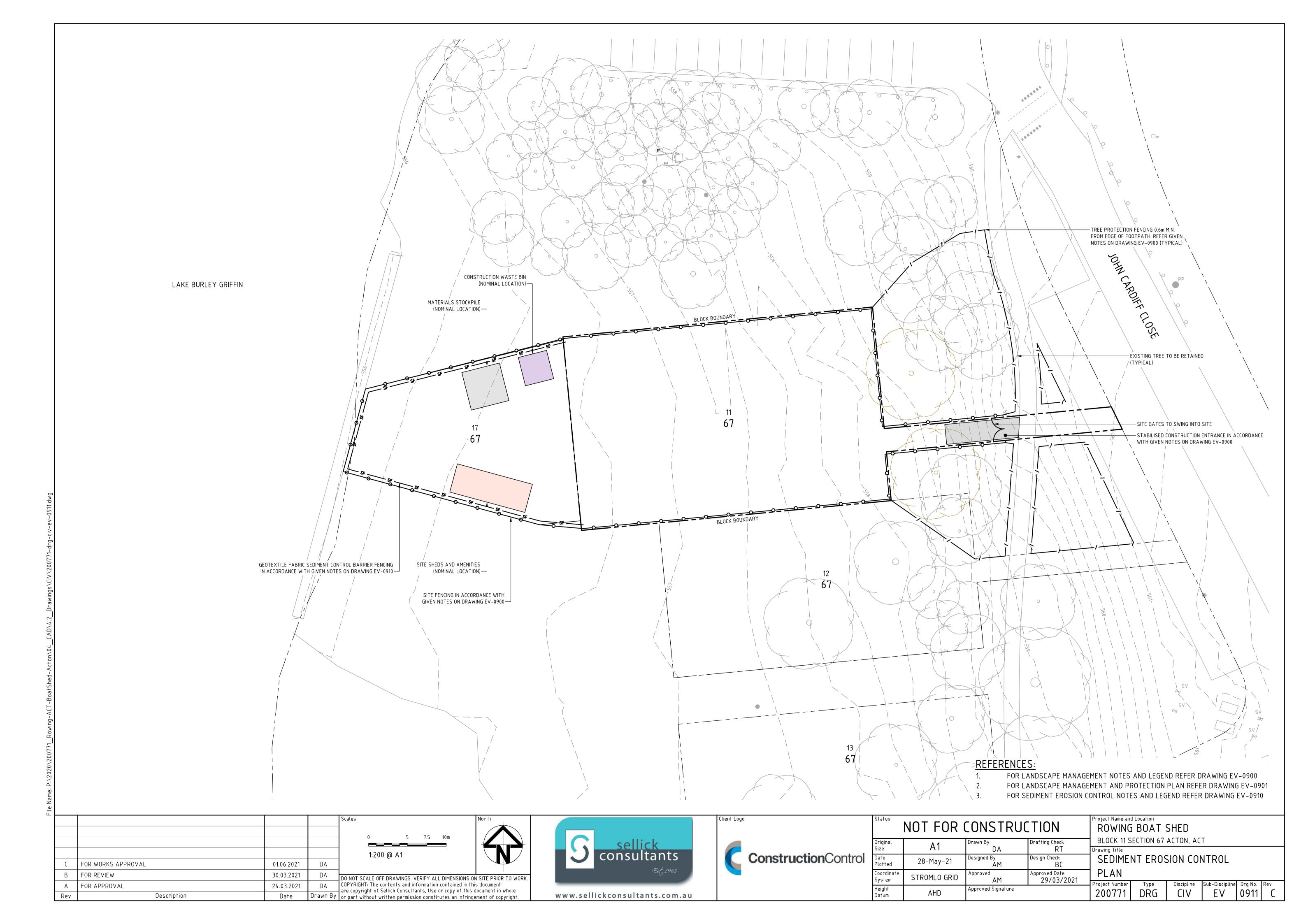
EXISTING TREE TO BE REMOVED

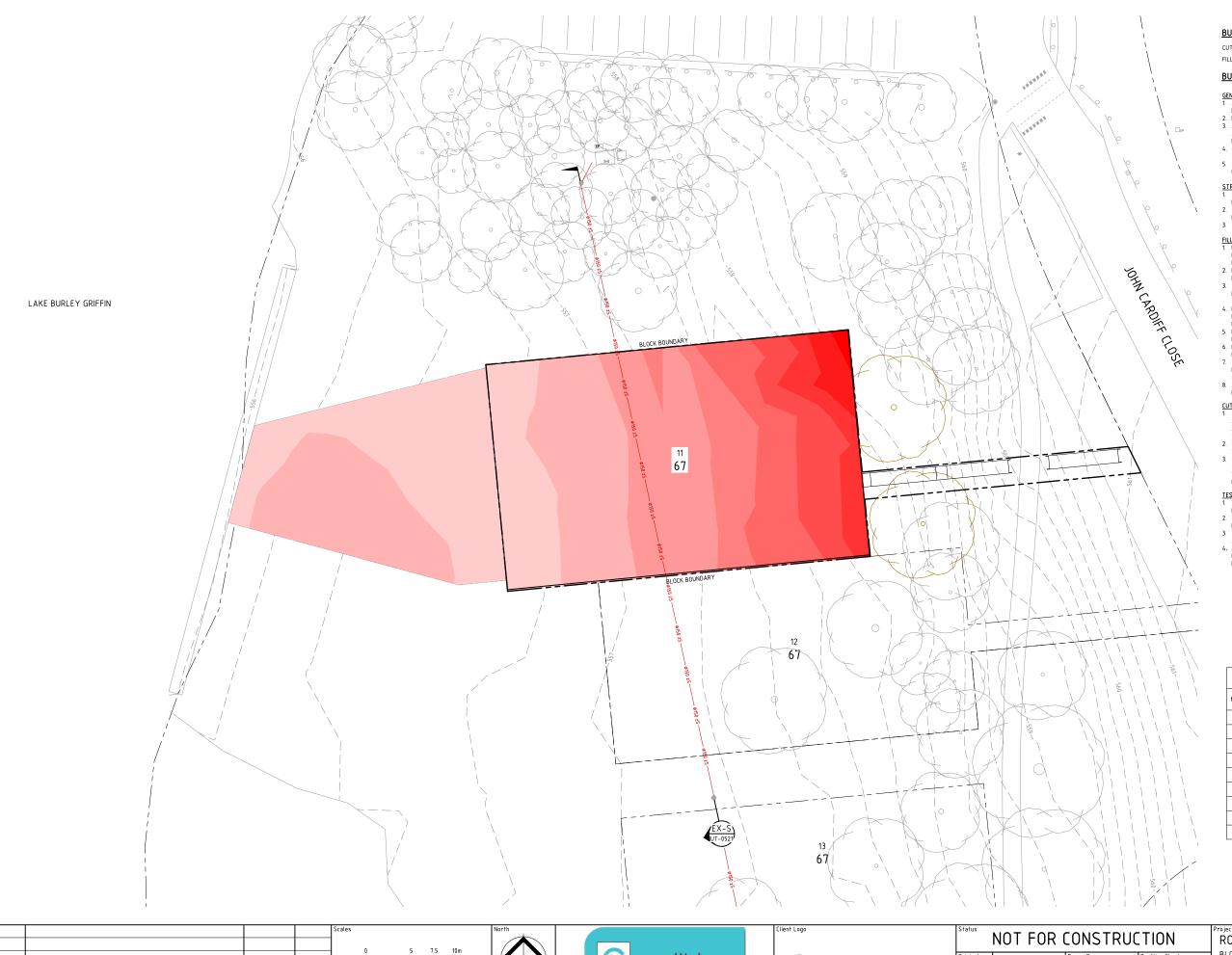
SILT FENCE (PRIOR TO ANY EXCAVATION)
KERB INLET FILTER

SEDIEMNT & EROSION CONTROL POND

HAY BALES

HB — •





#### BULK EARTHWORKS VOLUMES

CUT: 896m<sup>3</sup>

FILL: 0m<sup>3</sup>

#### BULK EARTHWORK NOTES

- GENERAL

  1. ALL BULK VOLUMES ARE SOLID VOLUMES AND DO NOT INCLUDE
  BULKING FACTORS OR TOPSOIL ALLOWANCE.
  2. REFER TO ARCHITECTURAL DRAWINGS FOR SETOUT.
  3. ALL EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH
  AUSTRALIAN STANDARD AS3798 WITH MINIMUM COMPACTION OF 95%
  MMDD TO ALL BUILDING PLATFORMS AND ROAD WORKS.
  4. CONTRACTOR TO PROVIDE LEVEL 1 CERTIFICATION OF FILL BY
  SUITABLY QUALIFIED GOTECHNICAL ENGINEER
  5. CONTRACTOR TO CONFIRM ALL BULK LEVELS PRIOR TO COMMENCEMENT
  OF EARTHWORKS.

STRIPPING

1. SITE SHOULD BE STRIPPED AND REINSTATED PROGRESSIVELY AS REQUIRED TO MINIMISE EXPOSED SURFACES.

2. STRIP ALL GRASS COVER AND TOP SOIL TO EXPOSE UNDERLYING SOIL IN AREAS TO BE REGRADED.

3. TOP SOIL TO BE STOCKPILED FOR FUTURE USE IN LANDSCAPING.

- FILL PLATFORMS

  1. FOR STRIPPED SLOPES STEEPER THAN 12.5% OVER WHICH FILL PLATFORMS ARE TO BE CONSTRUCTED, PROVIDE BENCHING OF NOT MORE THAN 300mm DEPTH.

  2. FILL IS TO BE PLACED AND COMPACTED IN LEVEL 150MM LAYERS MAXIMUM COMPACTED THICKNESS.

  3. STRUCTURAL FILL PLATFORMS TO BE COMPACTED TO 95% STANDARD DRY DENSITY (90% MMDD). NON STRUCTURAL PLATFORMS TO BE COMPACTED TO 90% STANDARD DRY DENSITY.

  4. FILL MATERIAL TO BE FREE OF ORGANICS, BUILDERS DEBRIS, OTHER DELETERIOUS MATERIAL AND SILT. MATERIAL TO BE UNIFORM MOISTURE CONDITION PRIOR TO PLACEMENT AND COMPACTION.

  5. MAX ROCK FRAGMENT SIZE TO BE 75MM DIAMETER WITHIN FILL MATERIAL.

- MAX ROCK FRAGMENT SIZE TO BE 75MM DIAMETER WITHIN FILL MATERIAL.
   FILL PLATFORMS TO BE CONSTRUCTED WITH I VERTICAL TO 3 HORIZONTAL BATTER UNLESS SPECIFIED OTHERWISE.
   TERRACED CUT AND FILL AREAS ARE TO BE CONSTRUCTED FROM LOWER LEVEL TO UPPER LEVEL WITH OVER FILLING. FOLLOWED BY CUTTING BACK AS NECESSARY.
   ALL FILL SURFACES TO BE SHAPED TO PROVIDE DRAINAGE AND PREVENT PONDING OF SURFACE WATER.

- CUT PLATFORMS

  1. CUT FACES WITHIN SITE LESS THAN 2.5M IN HEIGHT TO BE VERTICAL IN ACCORDANCE WITHIN GEOTECHNICAL REPORT. BATTER BACK TOP 0.5m AT 1 VERTICAL TO 1 HORIZONTAL. CUT FACES ALONG BOUNDARY TO BE 1 VERTICAL TO 1 HORIZONTAL UNLESS SHORING IS PROVIDED.

  2. CUT FACES GREATER THAN 2.5M IN HEIGHT TO HAVE PORTION ABOVE 2.5M BATTERED BACK AT 1 VERTICAL TO 2 HORIZONTAL.

  3. CUT PLATFORMS TO BE PROOF ROLLED. CUT PLATFORMS TO BE SHAPED TO PROVIDE DRAINAGE AND PREVENT PODINING OF SURFACE WATER. CUT FACES ALONG BOUNDARY TO BE 1 VERTICAL TO 1 HORIZONTAL.

- TESTING

  1. TESTING TO BE CARRIED OUT IN ACCORDANCE WITH AS3798 BY NATA REGISTERED LABORATORY.

  2. TESTING TO BE UNDERTAKEN PROGRESSIVELY THROUGHOUT BULK EARTHWORKS.

  3. TESTING TO BE DISTRIBUTED UNIFORMLY THROUGHOUT DEVELOPMENT ALLOW 1 TEST PER Som<sup>3</sup> FILL.

  4. ANY PLATFORMS NOT ACHIEVING MINIMUM TEST RESULTS ARE TO BE STRIPPED BACK, RE-COMPACTED, AND RE-TESTED UNTIL REQUIRED COMPACTION LEVELS ACHIEVED.

Surface Analysis: Elevation Ranges										
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)							
1		-2.250	-2.000							
2		-2.000	-1.750							
3		-1.750	-1.500							
4		-1.500	-1.250							
5		-1.250	-1.000							
6		-1.000	-0.750							
7		-0.750	-0.500							
8		-0.500	-0.250							
9		-0.250	0.000							

				0 5 7.5 10m					
С	FOR WORKS APPROVAL	27.06.2021	DA						
В	FOR WORKS APPROVAL	01.06.2021	DA	DO NOT SCALE OFF DRAWINGS, VERIFY ALL DIMENSIONS ON	N SITE PRIOR TO WORK				
Α	FOR REVIEW	30.03.2021	DA	COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole					
Rev	Description	Date	Drawn By	or part without written permission constitutes an infringe	ment of copyright.				





		NOT FOR (	CONSTRU	CTION	ROWING	BOAT	SHED	
	Original Size	A1	Drawn By DA	Drafting Check RT	BLOCK 11 S	ECTION 67	ACTON, AC	T
ol	Date Plotted	27-Jun-21	Designed By AM	Design Check BC	EARTH	WORKS		
	Coordinate System	STROMLO GRID	Approved AM	Approved Date 29/03/2021	CUT AN	D FILL \	OLUMES Discipline	<u>ک</u>
	Height Datum	AHD	Approved Signature	•	200771	DRG	CIV	

**ROWING BOAT SHED** BLOCK 11 SECTION 67 ACTON, ACT EARTHWORKS CUT AND FILL VOLUMES PLAN

Sub-Discipline Drg No. Rev

**PROJECT NAME:** 

# ROWING BOAT SHED

**PROJECT LOCATION:** 

# BLOCK 11 SECTION 67 ACTON, ACT

**CLIENT:** 

CONSTRUCTION CONTROL

# **DRAWING INDEX:**

GN-0001 COVER SHEET, DRAWING INDEX AND LOCALITY PLAN GN-0002 GENERAL NOTES AND LEGEND

AL-0101 AL-0121 ALIGNMENT CONTROL AND GRADING PLAN

EW-0201 EARTHWORKS CUT AND FILL VOLUMES PLAN

PV-0301 PAVEMENT PLAN

STORMWATER AND SUBSOIL DRAINAGE PLAN DR-0401

UT-0501 SEWER AND WATER PLAN **EXISTING SEWER SECTION** UT-0521

EV-0900 LANDSCAPE MANAGEMENT AND PROTECTION NOTES AND LEGEND

EV-0901 LANDSCAPE MANAGEMENT AND PROTECTION PLAN SEDIMENT EROSION CONTROL NOTES AND LEGEND EV-0910

SEDIMENT EROSION CONTROL PLAN EV-0911

VEHICLE TURNING PATHS PLAN TP-2201

WM-2301 WASTE MANAGEMENT PLAN



LOCALITY PLAN

Mountain

Peninsula





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				NOT FOR CONSTRUCTION			TION	Project Name and Location  ROWING BOAT SHED			
				Original	۸ 1	•	Drafting Check	BLOCK 11 SECTION 67 ACTON, ACT			
				Size	A1	DA	RT	Drawing Title			
				Date Plotted	28-May-21	Designed By AM	Design Check RC	COVER SHEET, DRAWING INDEX			
В	FOR WORKS APPROVAL	01.06.2021	DA	Coordinate System	STROMLO GRID	Approved	Approved Date 29/03/2021	AND LOCALITY PLAN			
Α	FOR REVIEW	30.03.2021	DA	Height		AM Approved Signature	29/03/2021	Project Number Type Discipline Sub-Discipline Drg No. Rev			
Rev	Description	Date	Drawn By		AHD	7.FF. 3.23 3.9Md. G. C		200771   DRG			

**JOB NUMBER:** 

DISCIPLINE

**SUBMISSION TYPE:** 

WORKS

**APPROVAL** 

200771

CIVIL ENGINEERING

Nuru Buranun

😘 Black Mountain

peninsula lookout

#### UTILITIES LEGEND EXISTING UTILITIES COMPILED EXISTING UTILITIES EXISTING UTILITIES TO BE NEW UTILITIES THROUGH THE DIAL BEFORE SURVEYED ON SITE EXHUMED OR ABANDONED YOU DIG SERVICE φ375 STORMWATER LINE WITH R-SUMP, ——— φ375 eSW ———— φ375 eSW ——— ——— φ375 zSW ———— φ375 zSW ——— <del>- X · X</del> Φ3**X**5 ·e**X**₩ <del>X · X · X</del> · Φ**X**75 **X**S₩**X · X -**PLANTATION SUMP, MANHOLE AND HEADWALL φ300 STORMWATER LINE WITH, GRATED — \$\phi 300 SW — \$\phi 300 SW — 3 SUMP, KISS SUMP AND PIPE END CAP SUBSOIL LINE WITH HIGH END RISER INTERMEDIATE RISER AND HEAD WALL \$\phi\$150 WATER MAIN WITH HYDRANT, STOP - X · X · X150X:W X · X · X · Ø X:0 • XV · X · X ------- φ150 eW ------ φ150 eW ------——— φ150 zW ——— φ150 zW —— VALVE, THRUST WALL AND PIPE END CAP Ø150 WATER MAIN WITH WATER METER. TIE AND STOP COCK, CONCRETE THRUST BLOCK TRENCH STOP AND CONCRETE THRUST PIER \$\phi\$150 SEWER MAIN WITH MANHOLE, ------ φ150 zS -------- φ150 zS ------- X · X · X150XeS X · X · X · Ø X50 eX · X · X -SCOUR STOP AND PIPE END CAP GAS MAIN ------ eG ------- eG ------- eG ------\_\_\_\_\_ zG \_\_\_\_ zG \_\_\_\_ zG \_\_\_\_ —— G—— G—— AAPT CONDUIT ----zaapt----zaapt------ X · X · XeA XPT X · X · X eAX\PTX · X · X -— AAPT—— AAPT—— - X · X · X el(X)N X · X · X eX(0NX · X · X -\_\_\_\_\_ zICON \_\_\_\_\_ zICON \_\_\_\_ — ICON ———— ICON ———— ICON CONDUIT elinet elinet ——— \_\_\_\_\_ zIINET \_\_\_\_\_ zIINET \_\_\_\_ - X · X · XellNXT· X · X · X · elkNETX · X · X ------ IINET -----IINET CONDUIT \_\_\_\_\_eCOMM \_\_\_\_\_eCOMM \_\_\_\_\_ \_\_\_\_\_zCOMM \_\_\_\_\_zCOMM \_\_\_\_\_ - X · X · XeEOMM X · X · X eCMMMX · X · X -— COMM——— COMM———— MISCELLANEOUS COMMUNICATIONS CONDUIT - X · X · X eNXSN X · X · X eNXBN X · X · X -NBN CONDUIT ------ eNBN ------ eNBN ------\_\_\_\_\_ zNBN \_\_\_\_\_ zNBN \_\_\_\_ - X · X · X eNXEN X · X · X eNXENX · X · X -NEXTGEN CONDUIT eNGEN eNGEN zNGEN zNGEN ----- NGEN------ NGEN------- X - XOF X - X - X - eXF- X - X - X eXF - X -OPTIC FIBRE CONDUIT ---- eOF ----- eOF -----\_\_\_\_ z0F \_\_\_\_ z0F \_\_\_\_ z0F \_\_\_ \_\_\_\_ OF \_\_\_\_ OF \_\_\_\_ OF \_\_\_\_ OPTUS CONDUIT - X · X · X eXPT X · X · X eXPT X · X · X ------- eOPT ------ eOPT ------\_\_\_\_\_ zOPT \_\_\_\_\_ zOPT \_\_\_\_\_ ---- OPT ------- OPT ------essict essict - X · X · XeS XCT X · X · X e XSIE X · X · X -———— SSICT———— SSICT———— SSICT CONDUIT \_\_\_\_\_ zTEL \_\_\_\_\_ zTEL \_\_\_\_ - X · X · X e X L · X · X · X e X E L X · X · X -— TEL ——— TEL ——— TELSTRA CONDUIT TRANSACT CONDUIT —— TR ——— TR ——— TR ——— —— eTR ——— eTR ——— eTR —— —— zTR ——— zTR ——— zTR —— - X - XTR X - X - X - eXR - X - X - 2 e XR - X -**VODAFONE CONDUIT** - X - XVF X - X - X - eX/F- X - X - X e \X - X -—— eVF ——— eVF ——— eVF —— —— 7VF ——— 7VF ——— 7VF —— — VF — VF — VF — \_\_\_\_\_\_ HV \_\_\_\_\_ HV \_\_\_\_\_ ELECTRICITY ABOVE GROUND - HIGH VOLTAGE - X · X <sup>y</sup> X · X eHX · X · <sup>y</sup>X · X e|X/ · X · X -ELECTRICITY ABOVE GROUND - LOW VOLTAGE - X · X <sup>V</sup> X · X el X · X · <sup>V</sup>X · X elX/ · X · X -ELECTRICITY BELOW GROUND - HIGH VOLTAGE ---- eHV ----- eHV ----- eHV ----\_\_\_\_ zHV \_\_\_\_ zHV \_\_\_\_ zHV \_\_\_\_ - X XHVX X X EXV X X EXV X -—— HV ——— HV ——— ELECTRICITY BELOW GROUND - LOW VOLTAGE \_\_\_\_ zLV \_\_\_\_ zLV \_\_\_\_ zLV \_\_\_\_ —— LV ——— LV ——— LV ——— STREET LIGHT CONDUIT WITH PEDESTRIAN STREET - X · X eEX · X · X · XE · X · X · XeE X · X -\_\_\_\_\_IT \_\_\_\_\_IT \_\_\_\_\_IT \_\_\_ LIGHT AND SINGLE REACH STREET COLUMN \_\_\_\_\_\_ \_\_\_\_\_\_\_ UTILITY EASEMENT \_\_\_\_\_\_ \_\_\_\_\_\_\_\_ UTILITIES MAY BE SHOWN AS FINE BLACK FOR PROPOSED AND GREY FOR EXISTING GENERAL LEGEND EXISTING EXISTING TO BE REMOVED NEW BLOCK BOUNDARY TREE

## NOTATION

BK	BARRIER KERB
CH	CHAINAGE
CK	CASTELLATED KERB
CL	COVER LEVEL
СТВ	CONCRETE THRUST BLOCK
СТ	CONCRETE THRUST PIER
DP	DOWN PIPE
FSL	FINISHED SURFACE LEVEL
FK	FLUSH KERB
Н	HYDRANT
HER	HIGH END RISER
HW	HEAD WALL
IL	INVERT LEVEL
IP	INTERSECTION POINT
IR	INTERMEDIATE RISER
K4A	k4A KERB
KR	KERB RETURN
KG	KERB AND GUTTER
KO	KERB ONLY
MH	MANHOLE
MK	MOUNTABLE KERB
MKG	MOUNTABLE KERB AND GUTTER
MS	MOWING STRIP
OCI	OPEN CONCRETE INVERT
PC	PRAM CROSSING
PTB	PIER THRUST BLOCK
PR	PRAM RAMP
RL	REDUCED LEVEL
ROCI	REINFORCED OPEN CONCRETE INVERT
RVC	REINFORCED VEHICLE CROSSING
SC	STOP COCK
SS	SUBSOIL
SV	STOP VALVE
TP	TANGENT POINT
TS	TRENCH STOP
TW	THRUST WALL
VC	VEHICULAR CROSSING

ALIGNMENT

# GENERAL NOTES

- 1. THE CONTRACTOR MUST COMPLY WITH CURRENT WORK AND HEALTH AND SAFETY LEGISLATION, REGULATIONS AND CODES OF PRACTICE.
- 2. THE CONTRACTOR MUST SECURE ALL PERMITS. ARRANGE ALL CLEARANCES AND PAY ALL FEES REQUIRED TO COMPLETE THE PROJECT BEFORE COMMENCING WORK OR PRIOR TO THEM CAUSING DELAY TO THE PROJECT.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION WORKS BEING CARRIED OUT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS WITHIN THE SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES SHALL BE REFERRED TO THE DESIGN CONSULTANT A MINIMUM 7 DAYS PRIOR TO COMMENCEMENT OF ASSOCIATED WORKS.
- 5. THE CONTRACTOR SHALL ENSURE DISTURBED SURFACES OUTSIDE THE GENERAL LIMIT OF WORK IS REINSTATED AT THE CONTRACTORS EXPENSE, TO THE SUPERINTENDENTS SATISFACTION. THESE SURFACES INCLUDE BUT ARE NOT LIMITED TO ROAD PAVEMENTS. KERBS, VERGE PAVING OR GRASSING, PEDESTRIAN FOOTPATHS AND DRIVEWAYS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAKING SMOOTH CONNECTION TO EXISTING.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EARTHWORKS IN A STABLE CONDITION DURING CONSTRUCTION. TEMPORARY SHORING AND BATTERING MUST BE IN ACCORDANCE WITH AS3798
- 8. THE CONTRACTOR SHALL MAKE PROVISIONS FOR BOTH VEHICULAR AND PEDESTRIAN TRAFFIC AND SITE VISITORS. THE CONTRACTOR MUST ENSURE SAFE ACCESS FOR NON CONSTRUCTION PEOPLE.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY TEMPORARY TRAFFIC MANAGEMENT PLANS APPROVED IN ACCORDANCE WITH AS1742.3 AND RELEVANT AUTHORITY REQUIREMENTS.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY POLLUTION CONTROL PLANS AND THEIR APPROVAL.
- 11. THE CONTRACTOR SHALL ENSURE ALL MATERIALS AND WORKMANSHIP IS IN ACCORDANCE WITH RELEVANT CURRENT CODES, STANDARDS, CONTRACT REQUIREMENTS AND AUTHORITY REQUIREMENTS.
- 12. THE CONTRACTOR SHALL LIAISE WITH ALL ADJACENT CONTRACTS TO ENSURE ALL ALIGNMENTS AND LEVELS OF NEW OR RELOCATED UTILITIES ARE COMPATIBLE.
- 13. THE INFORMATION PROVIDED IN THESE DRAWINGS PREPARED BY SELLICK CONSULTANTS IS SOLELY FOR THE USE OF THE RECIPIENT. SELLICK CONSULTANTS HAS NO DUTY OF CARE OR ACCEPTS ANY RESPONSIBILITY FOR A THIRD PARTY WHO MAY RELY UPON THESE DOCUMENTS FOR ANY PURPOSE.
- 14. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER ENGINEERING/ ARCHITECTURAL DRAWINGS AND SPECIFICATIONS OR OTHER WRITTEN INSTRUCTION THAT MAY BE ISSUED DURING THE TIME OF THE CONTRACT.
- 15. BLOCK BOUNDARIES SHOWN ON THESE DRAWINGS ARE IN ACCORDANCE WITH SUPPLIED DIGITAL DATA OR SURVEYED.
- 16. DO NOT SCALE THESE DRAWINGS.
- 17. ALL DIMENSIONS ARE IN MILLIMETERS OR METERS.
- 18. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- 19. ORIGIN OF SURVEYED AND DESIGN COORDINATES NOTED CO-ORDINATE SYSTEM

### UTILITIES NOTES

- 1. THE UTILITIES INDICATED ON THESE DRAWINGS WERE COMPILED FROM DIGITAL PLANS ISSUED BY UTILITY AUTHORITIES VIA THE DIAL BEFORE YOU DIG SERVICE. THE INFORMATION PROVIDED WAS PREPARED SOLELY FOR THE USE OF THE AUTHORITY AND IS NOT NECESSARILY ACCURATE.
- 2. BEFORE COMMENCING WORK THE CONTRACTOR SHALL CONTACT THE RELEVANT UTILITY AUTHORITIES AND VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES ON SITE AND OBTAIN NECESSARY CLEARANCES FOR POTHOLING AND CONSTRUCTION. DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE PHYSICAL ONSITE CONDITIONS MUST BE REPORTED BACK TO THE DESIGN CONSULTANT A MINIMUM 7 DAYS PRIOR TO COMMENCEMENT OF WORKS.
- 3. BEFORE COMMENCING EXCAVATION THE CONTRACTOR SHALL EXPOSE ALL CROSSINGS AND CONNECTIONS POINTS ON EXISTING UNDERGROUND UTILITIES. THE LEVELS OF CONNECTION POINTS AND LEVELS OF EACH CROSSING SHALL BE SURVEYED AND ANY VARIATIONS OF THE LEVELS GIVEN OR ANY DIFFICULTIES IN BEING ABLE TO ACHIEVE THE REQUIRED GRADES OF NEW PIPELINES SHALL BE REPORTED TO THE SUPERINTENDENT. A MINIMUM OF 7 DAYS PRIOR TO THE COMMENCEMENT OF WORKS
- 4. BEFORE COMMENCING WORK THE CONTRACTOR SHALL ARRANGE THE RELOCATION OR ADJUSTMENT OF A UTILITY SERVICE TO THE APPROVAL OF THE RELEVANT UTILITY AUTHORITY.
- 5. BEFORE COMMENCING WORK THE CONTRACTOR SHALL LOCATE AND MARK ALL UTILITIES WITHIN THE EXTENT OF WORKS.
- 6. IF AN UNDERGROUND SERVICE IS DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT AND THE RELEVANT UTILITY AUTHORITY IMMEDIATELY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT NO EXTRA COST TO THE PRINCIPLE.

# ICON WATER NOTES

- 1. ALL WORK ON ICON WATER WATER SUPPLY AND SEWER MAINS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT STANDARDS. REFER TO WWW.ICONWATER.COM.AU FOR THE CURRENT RELEASE OF STANDARDS
- WSA-02 'GRAVITY SEWERAGE CODE OF AUSTRALIA'
- STD-SPE-G-011 ICON WATER SUPPLEMENT TO WSA-02
- WSA-03 'WATER SUPPLY CODE OF AUSTRALIA' - STD-SPE-G-012 'ICON WATER SUPPLEMENT TO WSA-03'
- STD-SPE-M-006 'REQUIREMENTS FOR PROPERTY SERVICE CONNECTIONS'
- 2. CONNECTIONS AND OR DISCONNECTIONS OF SEWER AND WATER AT THE MAIN TO BE MADE BY ICON WATER AT CONTRACTOR'S EXPENSE. THE CONTRACTOR IS TO EXPOSE THE MAIN AT THE LOCATION OF THE CONNECTION/DISCONNECTION IN PREPARATION FOR THE WORK BY ICON WATER. ALL EXCAVATION IN THE VICINITY OF MAINS IS TO BE CARRIED OUT BY HAND.
- 3. THE CONTRACTOR MUST VISIT THE SITE OF WORKS BEFORE TENDERING AND MAKE ALLOWANCES IN THEIR TENDER FOR ALL TOPOGRAPHIC CONSTRAINTS AFFECTING THE EXECUTION OF THE WORKS AND THE RESTORATION OF THE SITE.
- 4. ALTHOUGH THE POSITIONS OF EXISTING UNDERGROUND SERVICES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS, THE CONTRACTOR SHALL CONFIRM THE DEPTH AND LOCATION OF ALL SERVICES ON SITE BEFORE COMMENCING EXCAVATIONS. CONTRACTOR TO ADVISE DESIGN ENGINEER IF NOT IN ACCORDANCE WITH THE PLAN.
- 5. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD). ALL COORDINATES ARE BASED ON NOTED CO-ORDINATE SYSTEM.
- 6. THE CONTRACTOR MUST SECURE ALL PERMITS. ARRANGE ALL CLEARANCES AND PAY ALL FEES REQUIRED TO COMPLETE THE PROJECT BEFORE COMMENCING WORK.
- 7. WORK AS EXECUTED DRAWINGS, TIE BOOK AND DEPOSITED PLAN MUST BE SUBMITTED BEFORE CONNECTION.
- 8. ANY NON-METALLIC WATER SERVICE IS TO BE INSTALLED WITH TRACER WIRE AND TESTED.
- 9. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN
- APPROVED SPOIL AREA.
- 10. THE CONTRACTOR SHALL REINSTATE ALL DISTURBED SURFACES TO MATCH EXISTING.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY TEMPORARY TRAFFIC MANAGEMENT PLANS AND THEIR APPROVAL.
- 12. CONTRACTOR TO CONFIRM DEPTH OF SEWER AND STORMWATER TIE POINTS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ADVISE DESIGN ENGINEER IF NOT IN ACCORDANCE WITH
- 13. ANY DEVIATION OF PIPE MATERIAL TO BE PROPOSED TO ENGINEER PRIOR TO INSTALLATION.
- 14. FOR ALL ICON CONNECTIONS THE CONTRACTOR SHALL SUPPLY ALL PIPE AND FITTING SIZES DN300 OR LARGER. PIPE AND FITTING MATERIALS ARE TO BE SUBMITTED TO ICON WATER PRIOR TO WORKS FOR APPROVAL.
- 15. SULPHATE RESISTING (SR) CONCRETE IS TO BE USED ON ALL SEWER MAINTENANCE STRUCTURES.

# SEWER EXPLANATIONS

# PIPE INFORMATION BOX

uPVC 13.5m 7.62%

600.022

UPSTREAM INVERT LEVEL

PIPE INTERNAL DIAMETER PIPE MATERIAL RCP, VC OR PVC PIPE LENGTH

> PIPE GRADE DOWNSTREAM INVERT LEVEL

**SEWER STRUCTURE ID** 



SEWER LINE S2, SEWER STRUCTURE '1'

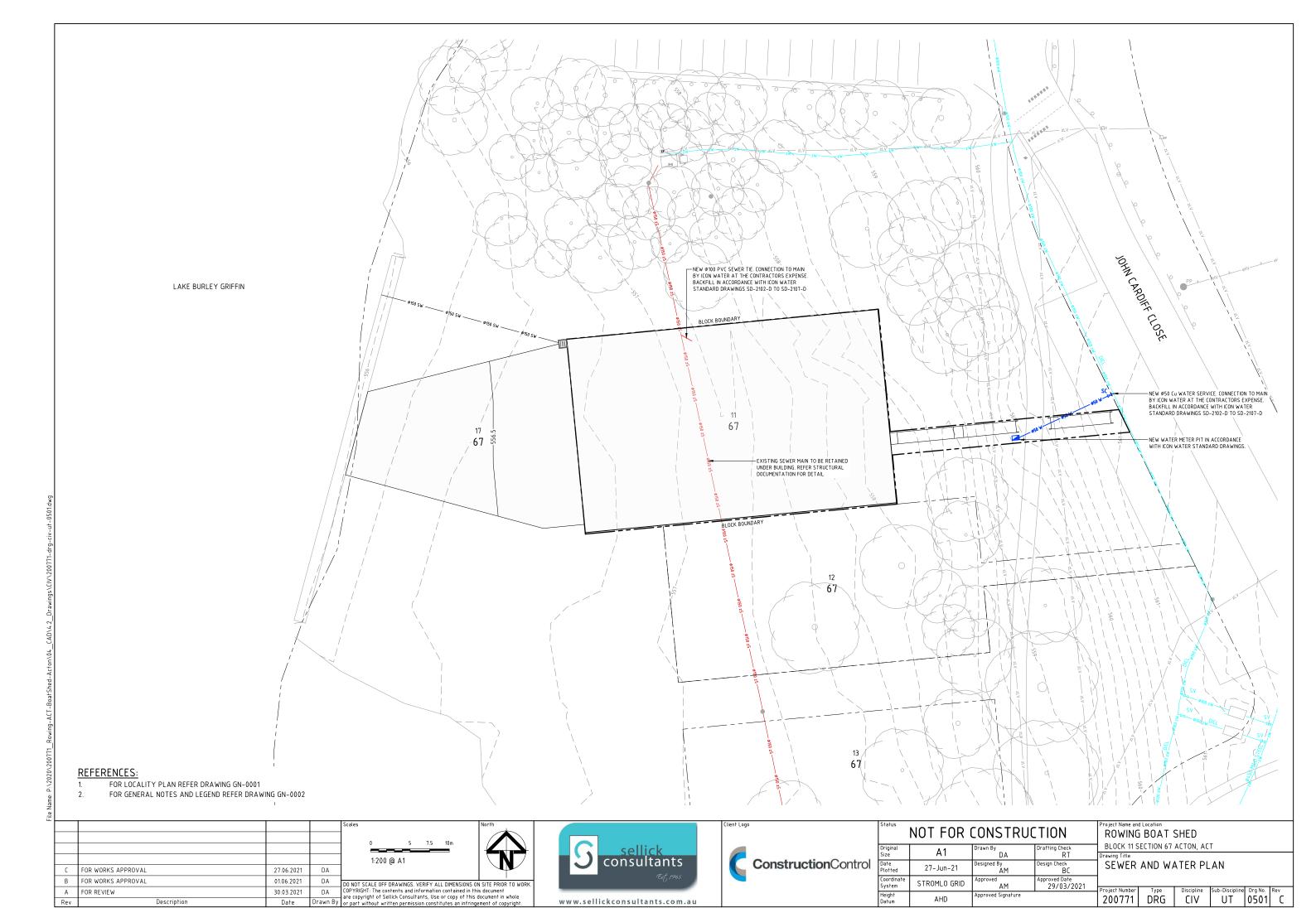
				Scales	North			
В	FOR WORKS APPROVAL	01.06.2021	DA	DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON	L I SITE PRIOR TO WORK.			
А	FOR REVIEW	30.03.2021	DΑ	COPYRIGHT: The contents and information contained in this	contained in this document			
Rev	Description	Date	Drawn By	are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright.				

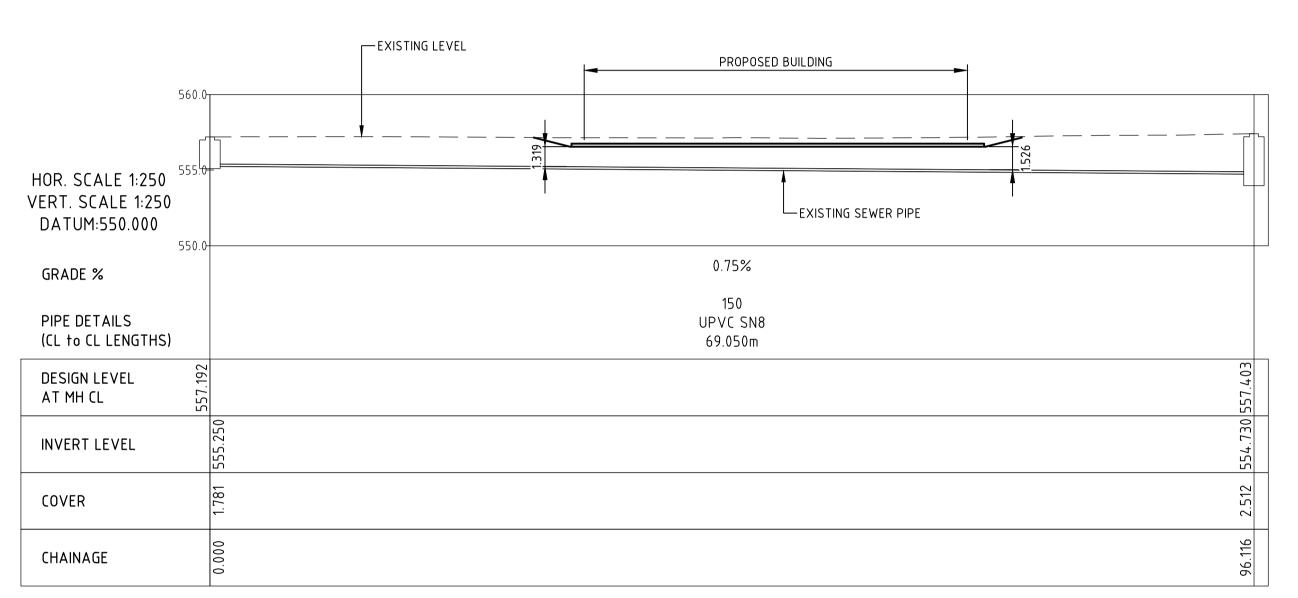


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Status	NOT FOR CONSTRUCTION				Project Name and Location ROWING BOAT SHED				
Original	1			BLOCK 11 SECTION 67 ACTON, ACT					
Size	l Ai	<b>D</b> A	RT	Drawing Title					
Date Plotted	28-May-21	Designed By AM	Design Check BC	] GENERA		S			
Coordinate System	STROMLO GRID	Approved AM	Approved Date 29/03/2021	AND LE		Dissiplies	Cub Dissisting	Dee Ne	D
Height Datum	AHD	Approved Signature	•	Project Number 200771	DRG	Discipline CIV	Sub-Discipline <b>GN</b>	0002	Rev B





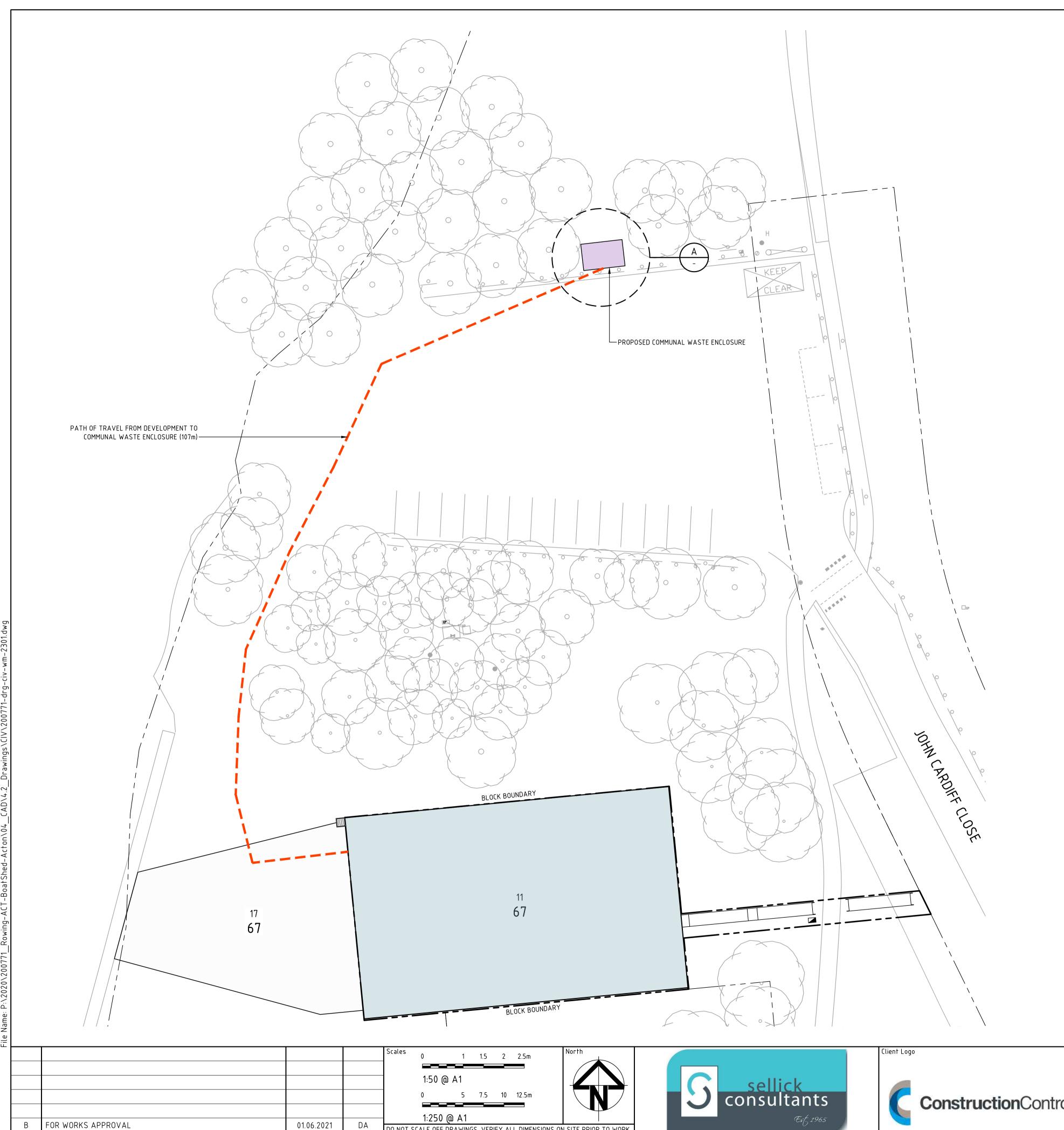
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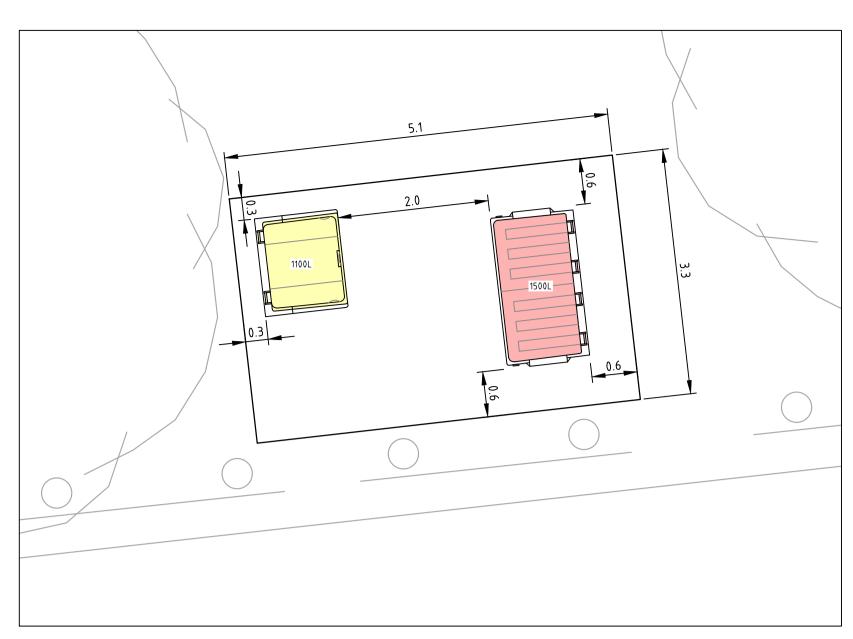
Rev	Description	Date	Drawn By	or part without written permission constitutes an infringement of copyright.						
Α	FOR WORKS APPROVAL	01.06.2021	υΛ	COPYRIGHT: The contents and information contained in this document — are copyright of Sellick Consultants, Use or copy of this document in whole						
				DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE						
				1:250 @ A1						
				0 5 7.5 10 12.5m						





NOT FOR CONSTRUCTION				Project Name and Location  ROWING BOAT SHED					
Original	Δ1	Drawn By	Drafting Check	BLOCK 11 S	ECTION 67	ACTON, AC	T		
Size		DA	RT	Drawing Title					
Date Plotted	28-May-21	Designed By AM	Design Check BC	EXISTING SEWER SECTION					
Coordinate System	STROMLO GRID	Approved AM	Approved Date 29/03/2021	Drainst Number	Tunn	Discipline	Cub Disciplina	Dag No.	Day
Height Datum	AHD	Approved Signature	•	Project Number 200771	DRG	CIV	Sub-Discipline UT	Drg No. <b>0521</b>	A





DETAIL A - WASTE ENCLOSURE

SCALE 1:50

				1:50 @ A1					
	FOR LIORIC ARRENAL	04.04.0004		1:250 @ A1					
B	FOR WORKS APPROVAL	01.06.2021		DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO					
Α	FOR REVIEW	30.03.2021		COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole					
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Status	NOT FOR CONSTRUCTION			Project Name and Location ROWING BOAT SHED								
Original	A1	Drawn By	Drafting Check	BLOCK 11 SECTION 67 ACTON, ACT								
Size	A1	DA	RT	Drawing Title								
Date Plotted	28-May-21	Designed By AM	Design Check BC	WASTE MANAGEMENT PLAN								
Coordinate System	STROMLO GRID	Approved AM	Approved Date 29/03/2021		<del>-</del> 1	D: : I:	C + D: : ::	- N - 1	<u> </u>			
Height Datum	AHD	Approved Signature	1	Project Number 200771	DRG	Discipline CIV	Sub-Discipline  WM	Drg No. <b>2301</b>	B			