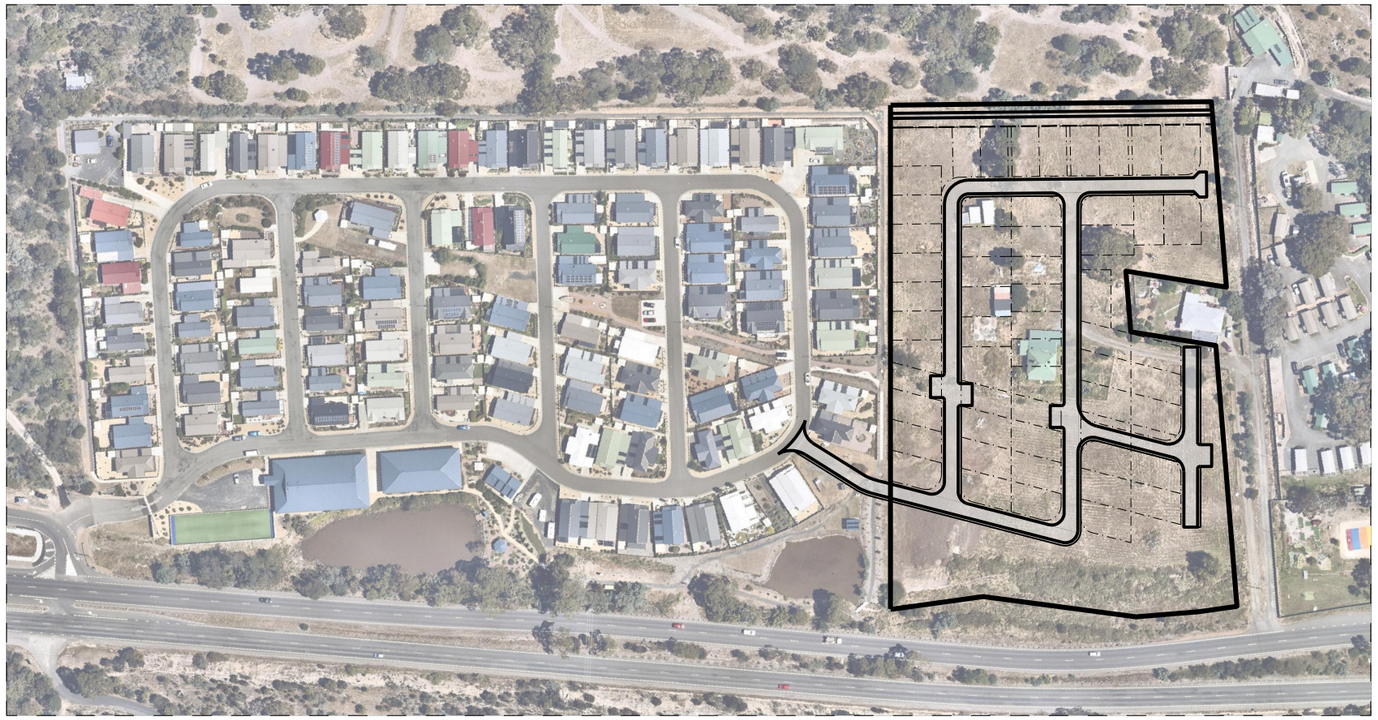
PROPOSED MULTI-UNIT DEVELOPMENT
647 EAST DERWENT HIGHWAY,
RISDON, 7017
TASMANIA

IMPORTANT
DRAWING MUST BE
PRINTED & READ IN COLOUR

NOT FOR CONSTRUCTION

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LOCALITY PLAN
SCALE: NTS

TRUE NORTH

REV	DESCRIPTION	BY	CHK	DATE
C	ADDED LOT AREAS	R.H.	M.H.	08/11/2024
B	REMOVAL OF EMERGENCY EXIT	S.M.	M.H.	05/08/2024
A	FOR PLANNING APPROVAL	M.B.	M.H.	25/10/2023

JSA
SCIENCE IN DESIGN
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CHECKED: M. HORSHAM CC5865 I	SCALE: AS SHOWN	SIZE: A3
CIVIL DESIGNER: M. BEKKER	HYDRAULIC ENGINEER: R. HORNER	
STATUS: **PLANNING APPROVAL**		

PROJECT: CLARENCE LIFESTYLE VILLAGE
647 EAST DERWENT HIGHWAY,
RISDON, 7017

DRAWING TITLE: INDEX & COVER SHEET

PROJECT NO	DWG NO	REV
17E99-118	**C00**	**C**

CIVIL AND HYDRAULIC NOTES

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GENERAL NOTES

1. THE MAIN CONTRACTOR AND ALL SUB CONTRACTORS SHALL COMPLY WITH THE STATE WORK HEALTH AND SAFETY ACT AND ALL RELEVANT CODES OF PRACTICE.
2. ALL HYDRAULICS WORKS TO BE CARRIED OUT IN ACCORDANCE WITH IPWEA STANDARD DRAWINGS AND SPECIFICATIONS, (WSAA SEWERAGE CODE OF AUSTRALIA & WATER SUPPLY CODE OF AUSTRALIA) AND TO THE SATISFACTION OF COUNCIL'S DEVELOPMENT ENGINEER.
3. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING TASNETWORKS TO APPLY FOR NEW CONNECTIONS AND/OR ADDITIONAL SUPPLY. SUFFICIENT TIME FOR TASNETWORKS DESIGN AND REVIEW PROCESSES SHOULD BE ALLOWED FOR.
4. NO TOP SOIL SHALL BE REMOVED FROM THE SITE WITHOUT THE CONSENT OF COUNCIL. TOP SOIL DISTURBED OR REMOVED AS A RESULT OF WORKS SHALL BE STOCK-PILED ON SITE AND LATER USED FOR REDRESSING ANY DISTURBED SURFACES.
5. ALL DISTURBED SURFACES ON SITE, EXCEPT THOSE SET ASIDE FOR ROADWAYS AND FOOTPATHS SHALL BE DRESSED WITH IMPORTED FILL AND REVEGETATED TO THE SATISFACTION OF THE COUNCIL'S DEVELOPMENT ENGINEER.
6. ALL EXISTING SERVICES TO BE LOCATED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS.
7. ALL LEVELS TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF WORKS.
8. ALL CONNECTIONS TO EXISTING STORMWATER MAINS TO BE CARRIED OUT BY COUNCIL AT DEVELOPERS COST UNLESS APPROVED OTHERWISE, ALL CONNECTIONS TO SEWER/WATER MAINS TO BE CARRIED OUT BY TASWATER AT DEVELOPERS COST UNLESS APPROVED OTHERWISE
9. GENERAL MATERIALS, INSTALLATION AND TESTING SHALL COMPLY WITH TASMANIAN MUNICIPAL STANDARDS PART 4.
10. EXCAVATED AND IMPORTED MATERIAL USED AS FILL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
11. ANY DEPARTURES FROM THE DESIGN DRAWINGS ARE TO BE AT THE WRITTEN APPROVAL OF THE ENGINEER AND APPROVAL FROM THE AUTHORITY. CHANGES INCLUDES CONFLICTS WITH EXISTING SERVICES.
12. UNLESS NOTED OTHERWISE, THESE NOTES SHALL APPLY TO ALL DRAWINGS IN THE SET
13. BATTERS:

MAX EMBANKMENT SLOPE	1:3.0
MAX CUTTING SLOPE	1:2.0 (LOOSE ROCK)
	1:3.0 (SOIL)

14. FOR EMBANKMENTS HEIGHTS IN EXCESS OF 2.0m, THE DESIGN MUST BE APPROVED BY JSA DURING CONSTRUCTION.

APPROVALS:

1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT A VALID BUILDING AND PLUMBING PERMIT IS IN PLACE FOR THE WORK AND THAT THE BUILDING SURVEYOR IS NOTIFIED OF ALL SITE INSPECTION REQUESTS.
2. THE APPLICANT SHALL NOT COMMENCE CIVIL CONSTRUCTION WORKS WITHIN A ROAD RESERVE UNTIL THE FOLLOWING REQUIREMENTS ARE MET:
3. A 'PERMIT TO CARRY OUT WORKS WITHIN A COUNCIL ROAD RESERVATION' HAS BEEN ISSUED BY THE COUNCIL AND THE ASSOCIATED FEE PAYMENT MADE
4. TRAFFIC MANAGEMENT AND PEDESTRIAN PLAN HAS BEEN PRODUCED AND FOLLOWED IN ACCORDANCE WITH DEPARTMENT OF INFRASTRUCTURE, ENERGY AND RESOURCES 'TRAFFIC CONTROL AT WORK SITES' CODE OF PRACTICE.

GENERAL HYDRAULICS NOTES:

1. DURING CONSTRUCTION ANY OPEN PIPES TO BE SEALED TEMPORARILY DURING WORKS TO PREVENT ENTRY OF FOREIGN MATTER
2. CONCEAL ALL PIPEWORK IN DUCTS, CEILING SPACES, WALL CAVITIES UNLESS OTHERWISE NOTED
3. CONFIRM ALL INVERT LEVELS PRIOR TO EXCAVATION.
4. THE LOCATION OF EXISTING SERVICES SHOULD BE CONFIRMED ONSITE INCLUDING: MAINS WATER, GAS, TELECOMMUNICATIONS, POWER, SEWER STORMWATER.
5. ALL PIPEWORK UNDER TRAFFICABLE AREAS TO BE BACKFILLED TO FULL DEPTH WITH DIER CLASS A 19MM FCR COMPACTED TO AS3798.
6. FOR CLASS H AND E SITES, JOINTS IN PLUMBING SHALL BE ARTICULATED WITHIN 3M OF THE BUILDING UNDER CONSTRUCTION TO ACCOMMODATE GROUND MOVEMENT WITHOUT LEAKAGE.
7. ALL PIPEWORK SHALL BE ADEQUATELY SUPPORTED. SUPPORT SHALL ALLOW FOR EXPANSION AND BE FITTED AT THE TIME OF PIPE INSTALLATION
8. WHERE PIPEWORK PENETRATES FIRE RATED WALL OR FLOORS A FIRE STOP COLLAR SHALL BE INSTALLED

SEWER NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH WSAA SEWERAGE CODE OF AUSTRALIA WSA 02-2014-3.1 MRWA EDITION V2.0, TASWATERS SUPPLEMENT TO THIS CODE, CURRENT VERSION OF AS/NZS3500 AND TO THE SATISFACTION OF TASWATER'S DEVELOPMENT ENGINEER.
2. ALL EXISTING SERVICES TO BE LOCATED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS.
3. ALL CONNECTIONS TO EXISTING MAINS TO BE CARRIED OUT BY TASWATER'S APPROVED CONTRACTOR AT DEVELOPERS COST UNLESS APPROVED OTHERWISE.
4. GENERAL MATERIALS, INSTALLATION & TESTING SHALL COMPLY WITH WSAA SEWERAGE CODE OF AUSTRALIA WSA 02-2014-3.1 MRWA EDITION V2.0, TASWATERS SUPPLEMENT TO THIS CODE, CURRENT VERSION OF AS/NZS3500.2 AND TO THE SATISFACTION OF TASWATER'S DEVELOPMENT ENGINEER.
5. ALL DROPS MUST BE INTERNAL AND IN ACCORDANCE WITH MRWA S-311.
6. ALL PIPE WORK UNDER TRAFFICABLE AREAS, INCLUDING DRIVEWAYS, IS TO BE BACKFILLED WITH FCR.
7. LOT CONNECTIONS SHALL BE DN100 UPVC U.N.O. AS PER MRWA S-302 AND BRING INSPECTION OPENING TO SURFACE INSIDE LOT BOUNDARY.
8. ALL SEWER MAINS TO BE PIPE CLASS SN8 FOR PUBLIC WORKS, AND SN6 FOR PRIVATE WORKS UNO. MATERIAL TYPE PER PLAN.
9. PIPEWORK SHALL BE PRESSURE TESTED PROGRESSIVELY DURING INSTALLATION TO ENSURE ABSENCE OF LEAKS.
10. ALL PIPEWORK SHALL BE INSTALLED AS CLOSE AS PRACTICABLE TO THE UNDERSIDE OF FLOORS.

STORMWATER NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL MUNICIPAL STANDARDS, CURRENT VERSION OF AS/NZS3500 AND IPWEA (TAS) MUNICIPAL STANDARD DRAWINGS AND SPECIFICATIONS WHERE APPLICABLE AND TO THE SATISFACTION OF COUNCIL'S MUNICIPAL ENGINEER
2. ALL EXISTING SERVICES TO BE LOCATED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS. ALL CONNECTIONS TO EXISTING MAINS TO BE CARRIED OUT BY COUNCIL AT DEVELOPERS COST UNLESS APPROVED OTHERWISE.
3. GENERAL MATERIALS, INSTALLATION & TESTING SHALL COMPLY WITH TASMANIAN MUNICIPAL STANDARDS PART 4.
4. ALL PIPE WORK UNDER TRAFFICABLE AND NON TRAFFICABLE AREAS TO BE BACKFILLED IN ACCORDANCE WITH SPECIFICATION TABLE SHOWN ON N03.
5. LOT CONNECTIONS SHALL BE DN150 UPVC UNO MINIMUM PIPE CLASS TO BE CLASS SN4, PIPE UNDER ROADS TO BE CLASS SN8.
6. ALL MAINTENANCE HOLES DEEPER THAN 1m FROM FINISHED SURFACE LEVEL TO MAINTENANCE HOLE BASE TO BE FITTED WITH APPROVED STEP IRONS.
7. IPWEA STANDARD DRAWINGS REFERENCED ARE THE MOST RECENT DRAWING SET UNO.

INSPECTION OPENINGS

8. FOR OTHER THAN SINGLE DWELLINGS, INSPECTION OPENINGS FOR MAINTENANCE OF SITE STORMWATER DRAINS SHALL BE EXTENDED TO AND CAPPED AT THE FINISH SURFACE LEVEL AND INSTALLED AT:-
   - 8.1. EACH POINT OF CONNECTION;
   - 8.2. EVEN SPACING NOT MORE THAN 30m APART;
   - 8.3. EACH END OF INCLINED JUMP-UP THAT EXCEED 6m IN LENGTH;
   - 8.4. EACH CONNECTION TO AN EXISTING SITE STORMWATER DRAIN; AND
   - 8.5. AT ANY CHANGE OF DIRECTION GREATER THAN 45°.

NOTE: INSPECTION OPENINGS MAY BE REPLACED BY AN INLET OR STORMWATER PIT.

9. THE NOMINAL SIZE OF INSPECTION OPENINGS FOR SITE STORMWATER DRAINS SHALL BE -
   - 9.1. FOR NOMINAL PIPE SIZE LESS THAT OR EQUAL TO DN150, THE SAME SIZE AS THE SITE STORMWATER DRAIN; AND
   - 9.2. FOR NOMINAL PIPE SIZES GREATER THAN DN150, NOT LESS THAN DN150
10. ACCESS A BELOW-GROUND INSPECTION OPENINGS SHALL BE EITHER BY:-
    - 10.1. A STORMWATER PIT; OR
    - 10.2. A SEALED RISER TERMINATED AT GROUND LEVEL OR FLOOR LEVEL IN AN ACCESSIBLE POSITION
11. INSPECTION OPENINGS AND UNUSED SOCKETS SHALL BE SEALED WITH AIRTIGHT REMOVAL PLUGS OR CAPS FITTED WITH AN ELASTOMERIC SEAL AND SECURELY HELD IN POSITION BY A CLIP, STRAP OR THREADED CONNECTION. EACH PLUG OR CAP SHALL BE LEGIBLY MARKED 'SW'.

WATER NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH WSAA WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 MRWA EDITION V2.0, TASWATERS SUPPLEMENT TO THIS CODE AND TO THE SATISFACTION OF TASWATERS DEVELOPMENT ENGINEER.
2. ALL EXISTING SERVICES TO BE LOCATED ON SITE PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL CONNECTIONS TO EXISTING MAINS TO BE CARRIED OUT BY TASWATER AT DEVELOPERS COST UNLESS APPROVED OTHERWISE.
4. GENERAL MATERIALS INSTALLATION AND TESTING SHALL COMPLY WITH WSA 03-2011-3.1 AND TASWATER APPROVED PRODUCTS CATALOGUE.
5. WATER MAIN TO BE oPVC SERIES 2 CLASS 16 OR APPROVED EQUIVALENT, WITH RODS AND CONNECTIONS BEING POLY PN16 PE100.
6. THRUST BLOCKS SHALL BE INSTALLED AT ALL TEES, BLANK ENDS, VALVES, FIRE HYDRANTS, REDUCERS AND BENDS GREATER THAN 5°.
7. INDIVIDUAL LOT CONNECTIONS TO BE MIN DN25 ID20 PN16 POLY UNO.
8. DEVELOPER TO SUPPLY 20mm WATER METER SUBMETERS AND BOX. SUBMETERS TO BE INSTALLED BY PLUMBING CONTRACTOR.
9. ALL ISOLATION VALVES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. VALVES LOCATED IN WALLS OR DUCTS SHALL BE FITTED WITH APPROVED ACCESS COVERS.
10. INTERNAL PLUMBING SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT VERSION OF AS/NZS3500 PARTS 1, 2 & 3 AND THE TASMANIAN PLUMBING CODE
11. THE PLUMBER SHALL ARRANGE FOR ALL INSPECTIONS AND PRESSURE TESTING REQUIRED BY TASWATER OR THE LOCAL AUTHORITY PRIOR TO CONCEALMENT.
12. ALL STOP VALVES TO BE CLOCKWISE CLOSING.
13. PROVIDE C.I. VALVE BOX COVERS TO ALL VALVES AND FIRE PLUG.
14. STOP VALVES AND FIRE PLUGS SHALL BE MARKED IN ACCORDANCE WITH THE IPWEA FIRE HYDRANT GUIDELINES: TASMANIA DIVISION.
15. FIRE PLUGS AND VALVE POSITIONS TO BE MARKED ON KERB BACKS WITH HIMARK CONCRETE PAINT.
16. PROVIDE ELECTROMAGNETIC, METAL IMPREGNATED TAPE IN ALL NON METALLIC PIPE TRENCHES. ENSURE TAPE TERMINATIONS ARE ACCESSIBLE.
17. ALL PROPERTY CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MRWA-W-110 AND MRWA-W-111 AND TASWATER STANDARD DRAWING TWS-W-0002 SERIES. ALL FITTINGS TO BE F.B.E.
18. FIRE PLUGS TO HAVE 100mm RISERS WITH SPRING TYPE PLUGS.
19. TASWATER TO WITNESS PRESSURE TEST TO 1200kPA PRIOR TO BACKFILL AT JOINTS.
20. MAIN TO BE DISINFECTED PRIOR TO CONNECTION TO THE RETICULATION NETWORK. REFER TO WSA CODE FOR DETAILS.
21. PLACEMENT OF WATER MAINS IN FILL REQUIRES THE CONTRACTOR TO PROVIDE DOCUMENTARY EVIDENCE INCLUDING; THE COMPOSITION OF FILL MATERIAL, VERIFYING THAT IT CONTAINS NO ORGANIC OR OTHER MATERIALS THAT DECOMPOSE OR OTHERWISE LEAD TO LONG TERM SETTLEMENT.

ROAD NOTES:

1. MINIMUM SUB BASE THICKNESS TO BE 200mm.
2. PRIOR TO PLACEMENT OF SUB BASE COURSE, PAVEMENT CUT IS TO BE ROLLED AND TESTED FOR CBR VALUES BY METHOD APPROVED BY THE SUPERINTENDENT. WHERE THE CBR VALUES ARE LESS THAN 5 WITHIN THE FIRST 200mm THEN ADDITIONAL TESTS WILL BE REQUIRED TO ALLOW SUFFICIENT DESIGN ALTERATIONS TO THE SUB BASE.
3. PAVEMENT DESIGN BASED ON A CBR VALUE OF 3-4%.
4. ROAD MARKINGS AND SIGNS AS PER AS1742
5. IF THE CBR VALUE IS LESS THAN 2 AT ANY DEPTH GREATER THAN 200mm THEN THE SUB BASE IS TO BE INCREASED GENERALLY ACCORDING TO THE FOLLOWING TABLE & CONSULT ENGINEER:

CBR VALUES:	DESIGN:
3-4	AS PER PAVEMENT DETAIL
~2	ADVISE & CONSULT ENGINEER. TYPICALLY INCREASE SUB BASE TO 400mm THICK (SUBGRADE REPLACEMENT)
<1	ADVISE & CONSULT ENGINEER. SPECIAL PAVEMENT DESIGN TO BE SPECIFIED.

DRIVEWAY NOTES:

1. EXCAVATED AND IMPORTED MATERIAL USED AS FILL IS TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
2. FILL MATERIAL SHALL BE WELL GRADED AND FREE OF BOULDERS OR COBBLES EXCEEDING 150mm IN DIAMETER UNLESS APPROVED OTHERWISE.
3. FILL REQUIRED TO SUPPORT DRIVEWAYS INCLUDING FILL IN EMBANKMENTS THAT SUPPORT DRIVEWAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
4. TOP SOIL AND ORGANIC MATTER SHALL BE STRIPPED TO A MINIMUM OF 100mm.
5. THE SUB GRADE SHALL BE CHECKED FOR A MINIMUM BEARING CAPACITY OF 50 kPa.
6. FILL IN EMBANKMENTS SHALL BE KEYED 150mm INTO NATURAL GROUND.
7. THE FILL SHALL BE COMPACTED IN HORIZONTAL LAYERS OF NOT MORE THAN 200mm.
8. EACH LAYER SHALL BE COMPACTED TO A MINIMUM DENSITY RATIO OF 95%, IT IS THE BUILDERS RESPONSIBILITY TO ENSURE THAT THIS IS ACHIEVED.
9. WHERE THE ABOVE REQUIREMENTS CANNOT BE ACHIEVED THE ENGINEER SHALL BE CONSULTED AND THE FORMATION SHALL BE PROOF ROLLED (UNDER SUPERVISION OF THE ENGINEER) TO DEMONSTRATE COMPACTION PRIOR TO THE PLACEMENT OF BASE OR SUB-BASE COURSES.
10. UNREINFORCED CONCRETE KERBS AND CHANNELS SHALL HAVE TROWELLED JOINTS AT NOT MORE THAN 3.0m CRS

CONTROLLED FILL:

1. CONTROLLED FILL SHALL BE LAID IN STRICT ACCORDANCE WITH AS2870 AND AS3798 REQUIREMENTS. THE FOLLOWING METHOD IS APPROVED:
2. FILL MATERIAL SHALL BE WELL GRADED FCR OR SITE ROCK REVIEWED DURING EXCAVATION.
3. THE SUB GRADE SHALL BE CHECKED FOR BEARING CAPACITY WHICH IS A MINIMUM OF 50kPa FOR SLABS AND A MINIMUM OF 100kPa FOR FOOTINGS.
4. THE FILL SHALL BE COMPACTED IN HORIZONTAL LAYERS OF NOT MORE THAN 150mm
5. THE FILL SHALL BE COMPACTED TO A MINIMUM DENSITY RATIO OF 95% FOR RESIDENTIAL APPLICATIONS. IT IS THE BUILDERS RESPONSIBILITY TO ENSURE THAT THIS LEVEL OF COMPACTION IS ACHIEVED. IMPORTED MATERIAL, CONTRARY TO THE ABOVE SPECIFICATION, INTENDED FOR USE AS STRUCTURAL FILL SHALL BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO USE.

CONCRETE:

1. CONCRETE SHALL BE NOT LESS THAN N25 GRADE, WITH 20mm NOMINAL MAXIMUM AGGREGATE SIZE, SLUMP SHALL BE SELECTED TO SUIT THE CONSTRUCTION CONDITIONS. UNLESS NOTED OTHERWISE THE MINIMUM APPROPRIATE SPECIFICATIONS FROM AS3600 AND AS2870 SHALL BE ADOPTED.
2. SAWN CONTROL JOINTS SHALL BE CONSTRUCTED AS SOON AS POSSIBLE WITHOUT RAVELING THE JOINT, GENERALLY THIS SHALL BE WITHIN 24 HOURS.
3. CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS USING CURRENT BEST PRACTICE METHODS. SPRAY APPLIED CURING COMPOUNDS ARE GENERALLY NOT DEEMED SATISFACTORY AS SOLE CURING METHOD.
4. CONCRETE SHALL BE MECHANICALLY VIBRATED U.N.O.
5. ADDITIONAL WATER SHALL NOT BE ADDED TO THE CONCRETE ON SITE UNLESS SIGNED BY THE DRIVER AND APPROVED BY THE SUPPLIER.

DISCLAIMER
ENGINEERING NOTES ARE INTENDED FOR USE AS A GUIDE TO RELEVANT CODES, REGULATIONS AND STANDARDS FOR THE BUILDER OR CONTRACTOR DURING THE CONSTRUCTION PROCESS, THEY SHALL NOT REPLACE THEM IN ANY WAY. THESE NOTES ARE NOT SITE SPECIFIC AND SHALL NOT BE USED TO CONTRAVENE APPROVED PLANS OR TO SPECIFY ANY UNAPPROVED WORKS.

REV	DESCRIPTION	BY	CHK	DATE
C	ADDED LOT AREAS	R.H.	M.H.	08/11/2024
B	REMOVAL OF EMERGENCY EXIT	S.M.	M.H.	05/08/2024
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CHECKED: M. HORSHAM CC5865 I	SCALE: AS SHOWN	SIZE: A3	PROJECT: CLARENCE LIFESTYLE VILLAGE 647 EAST DERWENT HIGHWAY, RISDON, 7017
CIVIL DESIGNER: M. BEKKER	HYDRAULIC ENGINEER: R. HORNER		
STATUS: **PLANNING APPROVAL**			

DRAWING TITLE: CIVIL & HYDRAULIC NOTES

PROJECT NO	DWG NO	REV
17E99-118	N01	C

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PIPE LEGEND

MARK	DESCRIPTION
AG	SLOTTED HDPE SN8 DRAINAGE PIPE
SW	PROPOSED STORMWATER PIPE
S	PROPOSED SEWER PIPE
RSM	PROPOSED RISING SEWER MAIN
W	PROPOSED PE PN16 WATER SUPPLY
	PROPOSED PUBLIC STORMWATER MAIN
	PROPOSED PUBLIC SEWER MAIN
	PROPOSED PUBLIC WATER MAIN
P	POWER CIRCUIT
T	COMMUNICATIONS
FS	DN100 PVC-M PN16 PVC
EX AG	EXISTING SLOTTED AG DRAINAGE PIPE.
EX W	EXISTING WATER SUPPLY
EX S	EXISTING SEWER PIPE
EX RSM	EXISTING RISING SEWER MAIN
EX SW	EXISTING STORMWATER
EX P	EXISTING POWER
EX SW -Ø -	EXISTING PUBLIC STORMWATER MAIN
EX SEWER -Ø -	EXISTING PUBLIC SEWER MAIN
EX WATER -Ø -	EXISTING PUBLIC WATER MAIN
MW	DEMOLISHED MAIN WATER
SW	DEMOLISHED STORMWATER
S	DEMOLISHED SEWER
W	DEMOLISHED WATER
>	SWALE DRAIN

SYMBOL LEGEND

MARK	DESCRIPTION
M	WATER METER. REFER TO PLAN FOR DETAILS.
	GRATED PIT - REFER TO PLAN FOR DETAILS.
	CHANNEL DRAIN & INCLINE PIT - REFER TO PLAN FOR DETAILS.
SW	STORMWATER MAINTENANCE HOLE. REFER TO PLAN FOR DETAILS.
S	SEWER MAINTENANCE HOLE. REFER TO PLAN FOR DETAILS.
H	SEWER LOT CONNECTION INSPECTION OPENING. REFER TO PLAN FOR DETAILS.
FP	FIRE PLUG. REFER TO PLAN FOR DETAILS.
	ISOLATING VALVE. REFER TO PLAN FOR DETAILS.
	POWER TURRET
P5	COMMUNICATIONS PIT

HATCH LEGEND

MARK	DESCRIPTION
	EASEMENT REFER TO PLAN FOR TYPE & WIDTH
	FLOOD PRONE AREA AS PER TASMANIAN PLANNING SCHEME - CLARENCE
	WATERWAY & COASTAL PROTECTION AREA AS PER TASMANIAN PLANNING SCHEME - CLARENCE
	ROAD OR RAILWAY ATTENUATION AREA AS PER TASMANIAN PLANNING SCHEME - CLARENCE
	PROPOSED CONCRETE DRIVEWAY
	PROPOSED FOOTPATH
	PROPOSED SERVICE PATHWAY
	EXISTING HARDSTAND

NOTES:

ENTIRE SITE IS SUBJECT TO THE FOLLOWING OVERLAYS AS PER THE TASMANIAN PLANNING SCHEME - CLARENCE LOCAL PROVISION;

- AIRPORT OBSTACLE LIMITATION AREA
- BUSHFIRE PRONE AREAS

SURFACE LEGEND

MARK	DESCRIPTION
FSL XX.XX	PROPOSED FINISHED SURFACE LEVEL
Δ XX.XX	HEIGHT OF PROPOSED SURFACE RELATIVE TO NATURAL SURFACE (FILL REQUIRED)
Δ -XX.XX	HEIGHT OF PROPOSED SURFACE RELATIVE TO NATURAL SURFACE (CUT REQUIRED)

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CHECKED: M. HORSHAM CC5865 I
SCALE: AS SHOWN
SIZE: A3
CIVIL DESIGNER: M. BEKKER
HYDRAULIC ENGINEER: R. HORNER
STATUS: **PLANNING APPROVAL**

PROJECT: CLARENCE LIFESTYLE VILLAGE
647 EAST DERWENT HIGHWAY,
RISDON, 7017

DRAWING TITLE: SYMBOL & LINE LEGENDS

PROJECT NO: **17E99-118**
DWG NO: **N02**
REV: **C**

IMPORTANT
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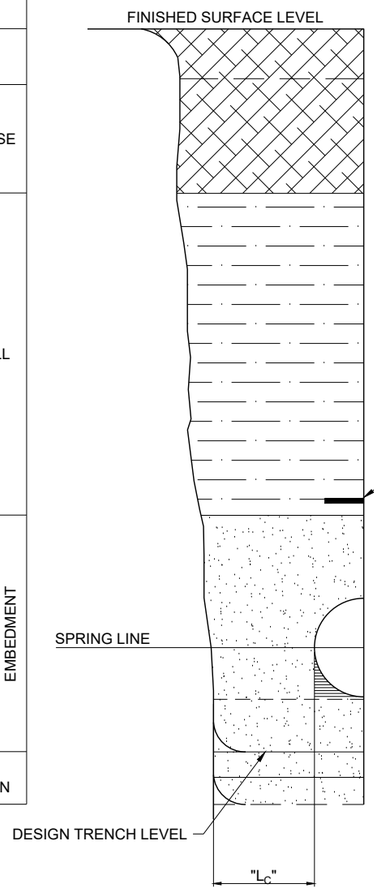
NOT FOR CONSTRUCTION

NOTES:

- ALL DIMENSIONS IN MILLIMETRES.
- BEDDING - SPECIAL BEDDING SHALL BE SPECIFIED TO SUIT THE CONDITIONS IF THE TRENCH FLOOR HAS: - IRREGULAR OUTCROPS OF ROCK, OR UNCONTROLLED GROUND WATER HAS DISTURBED THE FLOOR OF THE TRENCH EMBEDMENT.
- SIDES OF EXCAVATION TO BE KEPT VERTICAL TO AT LEAST 150 ABOVE THE PIPE.

MATERIAL			ZONE	
DRIVEWAY SURFACE	ROAD SURFACE	VERGE & TRACK		
DRIVEWAY SURFACE LAYER	ROAD SURFACE LAYER	TO MATCH EXISTING	SURFACE COURSE	
DRIVEWAY BASE COURSE	TO MATCH EXISTING ROAD BASE OR TO ROAD OWNER'S REQUIREMENTS		BASE COURSE	
ORIGINAL MATERIAL OR INORGANIC FILL WITH MAXIMUM 75mmSTONE SIZE	20mm FCR COMPACTED IN 150mm LAYERS	TO ROAD OWNER'S REQUIREMENTS OR ORIGINAL MATERIAL OR INORGANIC FILL WITH MAXIMUM 75mmSTONE SIZE	TRENCH FILL	
7mm COMPACTED CLEAN METAL			OVERLAY	EMBEDMENT
7mm COMPACTED CLEAN METAL			SIDE SUPPORT	EMBEDMENT
7mm COMPACTED CLEAN METAL. BEDDING MAY BE OMITTED IF TRENCH BASE IS GRANULAR SAND			BEDDING	EMBEDMENT
			OVER EXCAVATION	

VEHICULAR LOADING



MINIMUM PIPE COVER (PVC)

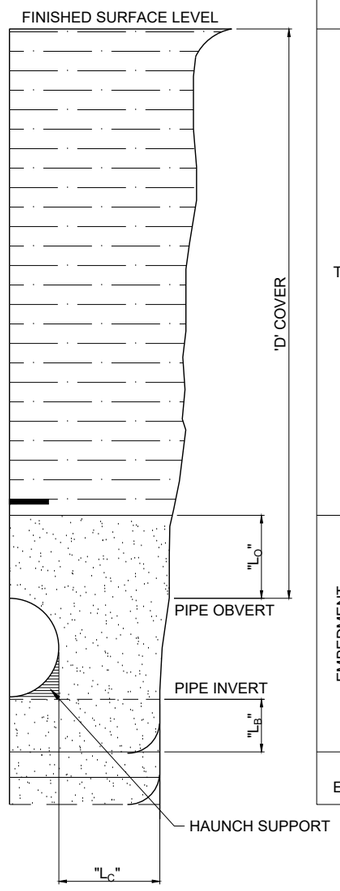
LOCATION	STORMWATER		SEWER	
	PRIVATE	PUBLIC	PRIVATE	PUBLIC
	MINIMUM COVER 'D' TO AS/NZS 3500.3	MINIMUM COVER 'D' TO TSD-G02	MINIMUM COVER 'D' TO AS/NZS 3500.2	MINIMUM COVER 'D' TO MRWA-S-201
NO PAVEMENT (SINGLE DWELLINGS - PRIVATE)	100	450	300	600
NO PAVEMENT (OTHER - PRIVATE)	300	450	300	600
PAVEMENT (NO VEHICULAR LOADING - PRIVATE)	100*	450	50*	600
DRIVEWAYS (UNSEALED - PRIVATE)	450	600	500	750
DRIVEWAYS (LIGHT VEHICLE LOADING - PRIVATE)	100*	600	50*	750
DRIVEWAYS (HEAVY VEHICLE LOADING - PRIVATE)	100*	600	50*	750
SEALED ROADS (PUBLIC)	600	900	500	900
UNSEALED ROADS (PUBLIC)	750	900	500	900
MAJOR/ARTERIAL ROADWAYS (PUBLIC)	750	1200	500	1200

- * BELOW UNDERSIDE OF PAVEMENT
- FOR PUBLICLY OWNED PIPES - MINIMUM COVER MUST ALSO COMPLY WITH THE SERVICE PROVIDERS REQUIREMENTS.

EMBEDMENT GEOMETRY

NOMINAL DIAMETER (D_E)	MINIMUM CLEARANCE "L_C"			MINIMUM BEDDING "L_B"			MINIMUM OVERLAY "L_O"		
	SEW+SW PRIVATE AS2566.1	SEWER PUBLIC MRWA-S-201	SW PUBLIC TSD-G01	SEW+SW PRIVATE AS2566.1	SEWER PUBLIC MRWA-S-201	SW PUBLIC TSD-G01	SEW+SW PRIVATE AS2566.1	SEWER PUBLIC MRWA-S-201	SW PUBLIC TSD-G01
<151	100	100	N/A	75	75	100	100	100	150
>151 - <301	150	150	N/A	100	100	100	150	150	150
>301 - <451	200	200	N/A	100	100	100	150	150	150
>451 - <901	300	250	N/A	150	150	150	150	150	150
>901 - <1501	350	300	N/A	150	150	150	200	200	150

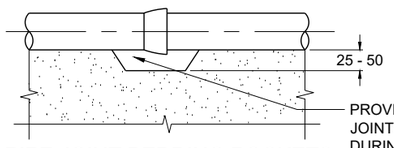
- TRENCH WIDTH TO BE SUFFICIENT TO SAFELY LAY THE PIPE AND COMPACT THE SIDE SUPPORT ZONE
- FOR PUBLICLY OWNED PIPES - MINIMUM EMBEDMENT GEOMETRY MUST ALSO COMPLY WITH THE SERVICE PROVIDERS REQUIREMENTS
- REFER BELOW FOR TRENCH WIDTHS FOR STORMWATER PIPES IN ACCORDANCE WITH TSD-G01 IN LIEU OF MINIMUM CLEARANCES L_C



ZONE		MATERIAL
TRENCH FILL		ORIGINAL MATERIAL OR INORGANIC FILL WITH 75mm MAXIMUM STONE SIZE
EMBEDMENT	OVERLAY	7mm COMPACTED CLEAN METAL
EMBEDMENT	SIDE SUPPORT	7mm COMPACTED CLEAN METAL
EMBEDMENT	BEDDING	7mm COMPACTED CLEAN METAL. BEDDING MAY BE OMITTED IF TRENCH BASE IS GRANULAR SAND
OVER EXCAVATION		

NO VEHICULAR LOADING

(INCLUDES LOCATIONS WHERE OCCASIONAL VEHICLES LOADINGS OCCUR EG. PARKLANDS, FOOTWAYS)



PROVIDE POCKETS IN BEDDING, AT JOINTS PRIOR TO LAYING PIPES. FILL VOID DURING PLACEMENT OF EMBEDMENT.

PIPE JOINT BEDDING POCKETS

FOR JOINT PROJECTIONS (SOCKETS, FLANGES ETC)

MINIMUM TRENCH WIDTH TO TSD-G01 (PUBLIC SW MAINS)

NOMINAL DIAMETER (D_E)	CONCRETE PIPES	OTHER PIPES
100	400	300
150	450	450
225	525	600
300	600	600
450	750	750
451- 1500	D_E + 300	D_E + 600

REV	DESCRIPTION	BY	CHK	DATE
C	ADDED LOT AREAS	R.H.	M.H.	08/11/2024
B	REMOVAL OF EMERGENCY EXIT	S.M.	M.H.	05/08/2024
A	FOR PLANNING APPROVAL	M.B.	M.H.	25/10/2023

JSA SCIENCE IN DESIGN
121 Sandy Bay Road, Sandy Bay TAS 7005
Phone (03) 6240 9911 www.jsa.com.au

CHECKED	SCALE	SIZE
M. HORSHAM CC5865 I	AS SHOWN	A3
CIVIL DESIGNER: M. BEKKER	HYDRAULIC ENGINEER: R. HORNER	
STATUS: **PLANNING APPROVAL**		

PROJECT: CLARENCE LIFESTYLE VILLAGE
647 EAST DERWENT HIGHWAY,
RISDON, 7017

DRAWING TITLE: PIPE TRENCH DETAILS

PROJECT NO	DWG NO	REV
17E99-118	**N03**	**C**

NOT FOR CONSTRUCTION

NOTES:

1. SURVEY DATA COMPLETED AND PROVIDED BY NICK GRIGGS & CO LAND SURVEYORS, DATED 03/05/2018, REFERENCE No. 4312/01
2. HORIZONTAL DATUM GDA, VERTICAL DATUM AHD AS PER SPM 7842, CONTOUR INTERVALS AT 0.5m.
3. WATER MAIN DETERMINED ON-SITE VIA MANUAL EXCAVATION.

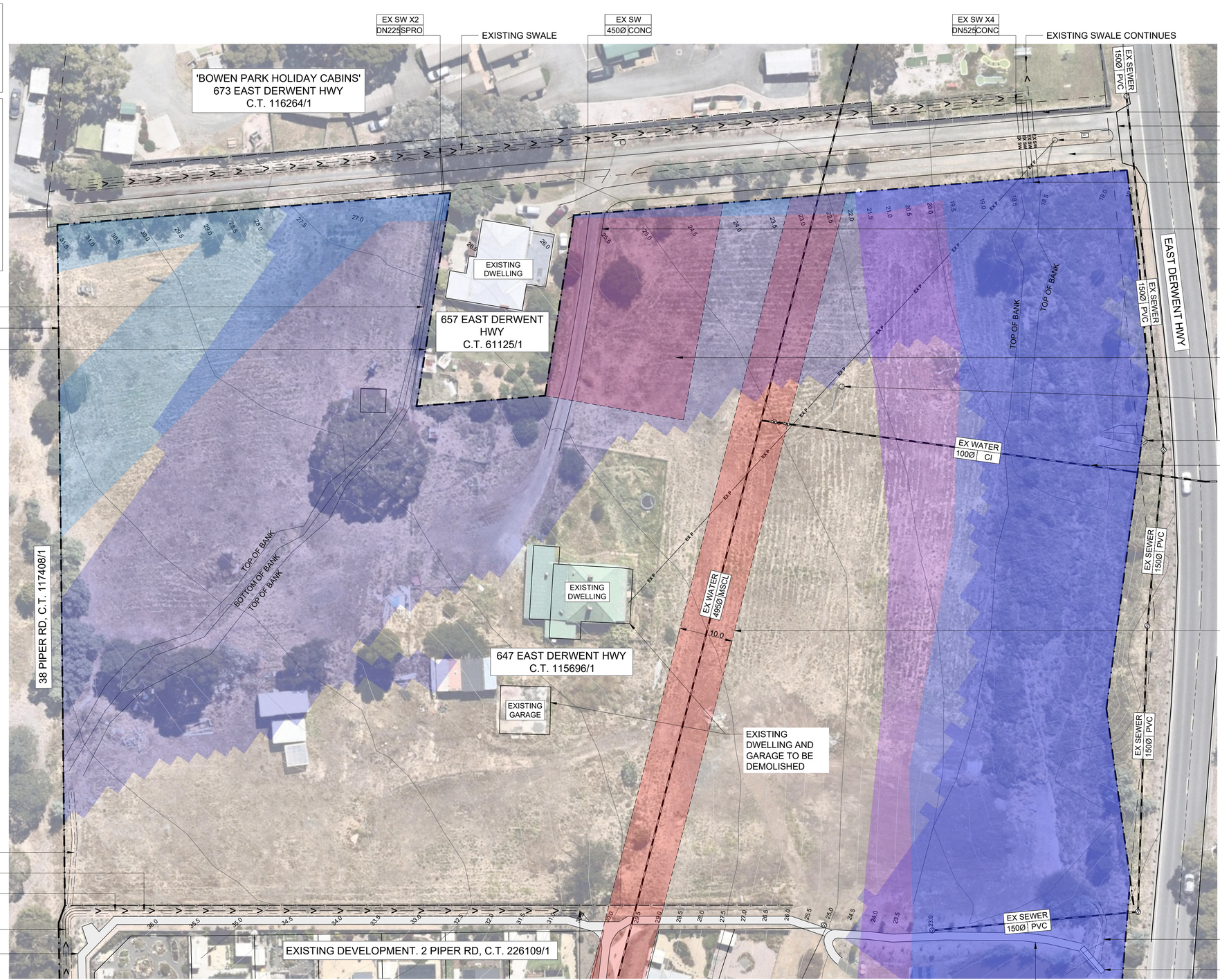
HATCH LEGEND

- EASEMENT REFER TO PLAN FOR TYPE & WIDTH
- FLOOD PRONE AREA AS PER TASMANIAN PLANNING SCHEME - CLARENCE
- WATERWAY & COASTAL PROTECTION AREA AS PER TASMANIAN PLANNING SCHEME - CLARENCE
- ROAD OR RAILWAY ATTENUATION AREA AS PER TASMANIAN PLANNING SCHEME - CLARENCE

NOTES:

ENTIRE SITE IS SUBJECT TO THE FOLLOWING OVERLAYS AS PER THE TASMANIAN PLANNING SCHEME - CLARENCE LOCAL PROVISION;

- AIRPORT OBSTACLE LIMITATION AREA
- BUSHFIRE PRONE AREAS



WARNING:

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EXISTING SITE PLAN

SCALE: 1:400

4m 0 4 8 12 16 20m

SCALE 1:400 AT A1 SHEET

TRUE NORTH

REV	DESCRIPTION	BY	CHK	DATE
C	ADDED LOT AREAS	R.H.	M.H.	08/11/2024
B	REMOVAL OF EMERGENCY EXIT	S.M.	M.H.	05/08/2024
A	FOR PLANNING APPROVAL	DG	MH	25/10/2023

IMPORTANT
DRAWINGS MUST BE
PRINTED & READ IN COLOUR

JSA SCIENCE IN DESIGN
121 Sandy Bay Road, Sandy Bay TAS 7005
Phone (03) 6240 9911 www.jsa.com.au

CHECKED: M. HORSHAM CC5865 I	SCALE: AS SHOWN	SIZE: A1	PROJECT: CLARENCE LIFESTYLE VILLAGE, 647 EAST DERWENT HIGHWAY, RISDON, 7017
CIVIL DESIGNER: M. BEKKER	HYDRAULIC ENGINEER: R. HORNER		
STATUS: PLANNING APPROVAL			

DRAWING TITLE: EXISTING SITE PLAN		
PROJECT NO: 17E99-118	DWG NO: C01	REV: C

NOT FOR CONSTRUCTION

NOTES:

1. SURVEY DATA COMPLETED AND PROVIDED BY NICK GRIGGS & CO LAND SURVEYORS, DATED 03/05/2018, REFERENCE No. 4312/01
2. HORIZONTAL DATUM GDA, VERTICAL DATUM AHD AS PER SPM 7842, CONTOUR INTERVALS AT 0.5m.
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- WATERWAY & COASTAL PROTECTION AREA AS PER TASMANIAN PLANNING SCHEME - CLARENCE
- ROAD OR RAILWAY ATTENUATION AREA AS PER TASMANIAN PLANNING SCHEME - CLARENCE
- PROPOSED CONCRETE DRIVEWAY
- PROPOSED FOOTPATH
- PROPOSED SERVICE PATHWAY
- EXISTING HARDSTAND

NOTES:

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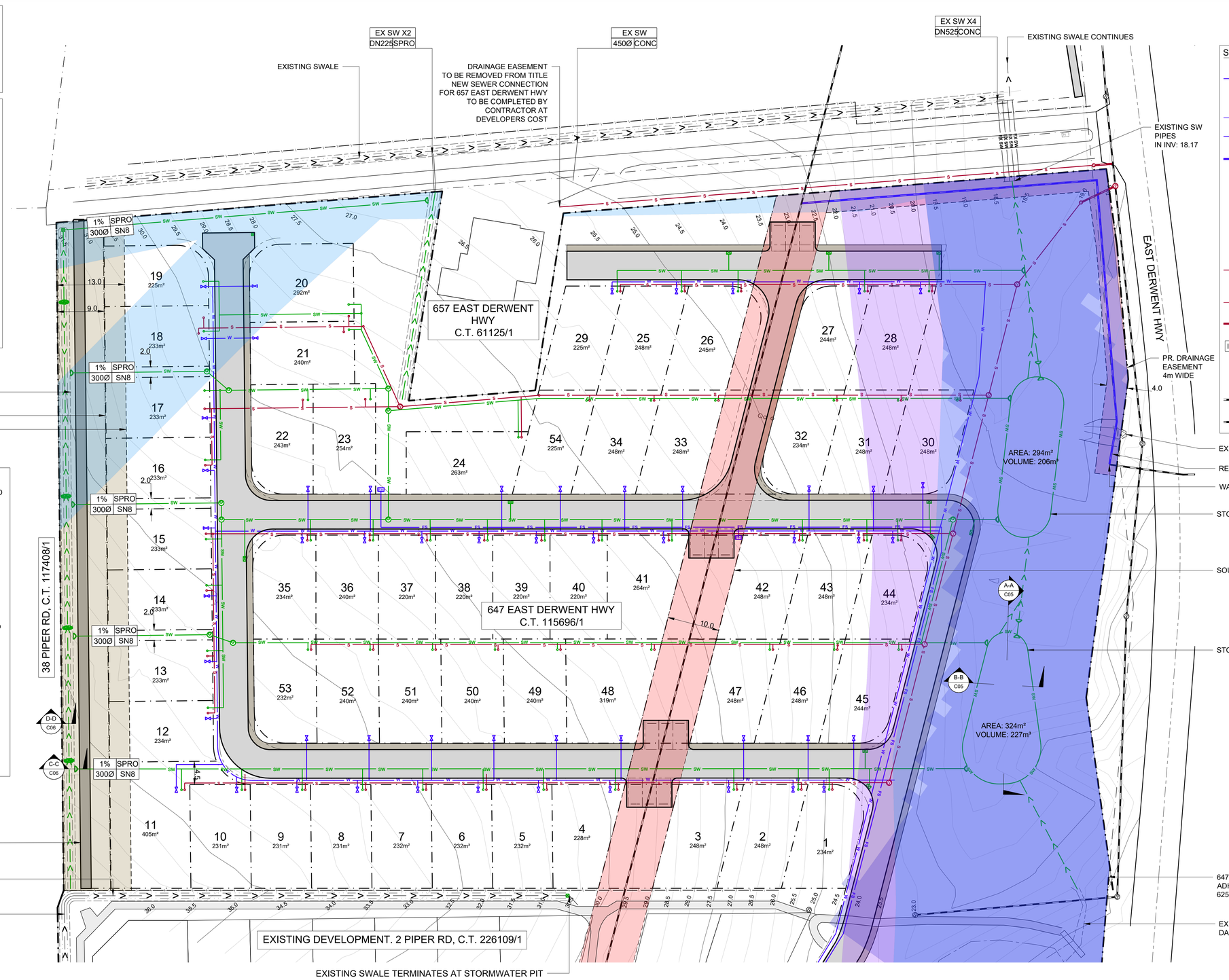
- AIRPORT OBSTACLE LIMITATION AREA
- BUSHFIRE PRONE AREAS

STORMWATER LEGEND

- GP1 — 450x450x600 DEEP STORMWATER PIT WITH GRATED CLASS 'B' LID. 'ACO' TYPE 45 OR SIMILAR.
- PROPOSED DN1050 STORMWATER MANHOLE
- INSPECTION OPENING TO SURFACE
- DN 100 uPVC SN6 BRANCHES & CONNECTIONS TO EACH UNIT. I.O. BEFORE MAIN SW LINE.
- PIT OUTLET PIPE DN150 U.N.O.
- PROPOSED STORMWATER PIPE. REFER TO PLAN FOR SIZING AND PIPE CLASS
- PROPOSED PUBLIC STORMWATER MAIN. REFER TO PLAN FOR SIZING AND PIPE CLASS
- PROPOSED SWALE DRAIN
- PROPOSED CONCRETE HEADWALL TO FUTURE ENGINEERS DETAIL
- PROPOSED SWALE CHECK DAM. REFER C06.
- EX SW — EXISTING STORMWATER
- EXISTING SWALE DRAIN
- EXISTING PUBLIC STORMWATER MAIN

SEWER & WATER LEGEND

- WATER PIPE PE100 PN16 SDR11, REFER TO PLANS FOR SIZING, FUSION TYPE CONNECTIONS WITH 90° BENDS FORMED THROUGH 30° ELBOWS.
- WATER PIPE TO UNIT STOP VALVE DN25mm ID20mm PE100 PN16 SDR11, FUSION TYPE CONNECTIONS WITH 90° BENDS FORMED THROUGH 30° ELBOWS.
- DEDICATED FIRE SERVICE LINE DN100 SERIES 2 PN16 oPVC
- PROPOSED PUBLIC WATER MAIN
- BALL VALVE (1No. PER UNIT) - WITH QUARTER TURN BRASS DZR, RESILIENT SEATED WITH EXTENDABLE NUT & TAIL TO BE SUPPLIED AND INSTALLED BY DEVELOPERS CONTRACTOR AT DEVELOPERS COST. CONNECTION TO TRUNK LINE VIA ID20mm BRANCH USING FUSION CONNECTION TEE. LID & SURROUNDS TO BE CLASS 'B'.
- PROPOSED DUAL HEAD ABOVE GROUND FIRE HYDRANT (TO FUTURE DETAIL)
- DN100 uPVC SN6 SEWER LINE U.N.O. REFER TO LONG SECTIONS FOR GRADES (MIN 1.6% U.N.O.)
- DN 100 uPVC SN6 BRANCHES & CONNECTIONS TO EACH UNIT. I.O. AFTER ORG (BEFORE CONNECTING INTO MAIN SEWER LINE)
- PROPOSED PUBLIC SEWER MAIN DN150 UPVC SN8
- I.O. — INSPECTION OPENING TO SURFACE
- PROPOSED DN1050 MAINTENANCE HOLE
- EXISTING PUBLIC SEWER MAIN
- EXISTING PUBLIC WATER MAIN



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BEFORE YOU DIG www.byda.com.au

PROPOSED SITE PLAN - SHEET 1

SCALE: 1:400

4m 0 4 8 12 16 20m

SCALE 1:400 AT A1 SHEET

TRUE NORTH

REV	DESCRIPTION	BY	CHK	DATE
C	ADDED LOT AREAS	R.H.	M.H.	08/11/2024
B	REMOVAL OF EMERGENCY EXIT	S.M.	M.H.	05/08/2024
A	FOR PLANNING APPROVAL	DG	MH	25/10/2023

IMPORTANT DRAWINGS MUST BE PRINTED & READ IN COLOUR

JSA SCIENCE IN DESIGN
121 Sandy Bay Road, Sandy Bay TAS 7005
Phone (03) 6240 9911 www.jsa.com.au

CHECKED: M. HORSHAM CC5865 I	SCALE: AS SHOWN	SIZE: A1	
CIVIL DESIGNER: M. BEKKER	HYDRAULIC ENGINEER: R. HORNER		
STATUS: PLANNING APPROVAL			

PROJECT: CLARENCE LIFESTYLE VILLAGE
647 EAST DERWENT HIGHWAY,
RISDON, 7017

DRAWING TITLE: PROPOSED SITE PLAN - SH 1

PROJECT NO	DWG NO	REV
17E99-118	C02	C

NOT FOR CONSTRUCTION

NOTES:

1. SURVEY DATA COMPLETED AND PROVIDED BY NICK GRIGGS & CO LAND SURVEYORS, DATED 03/05/2018, REFERENCE No. 4312/01
2. HORIZONTAL DATUM GDA, VERTICAL DATUM AHD AS PER SPM 7842, CONTOUR INTERVALS AT 0.5m.
3. WATER MAIN DETERMINED ON-SITE VIA MANUAL EXCAVATION.

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- PROPOSED CONCRETE DRIVEWAY
- PROPOSED FOOTPATH
- PROPOSED SERVICE PATHWAY
- EXISTING HARDSTAND

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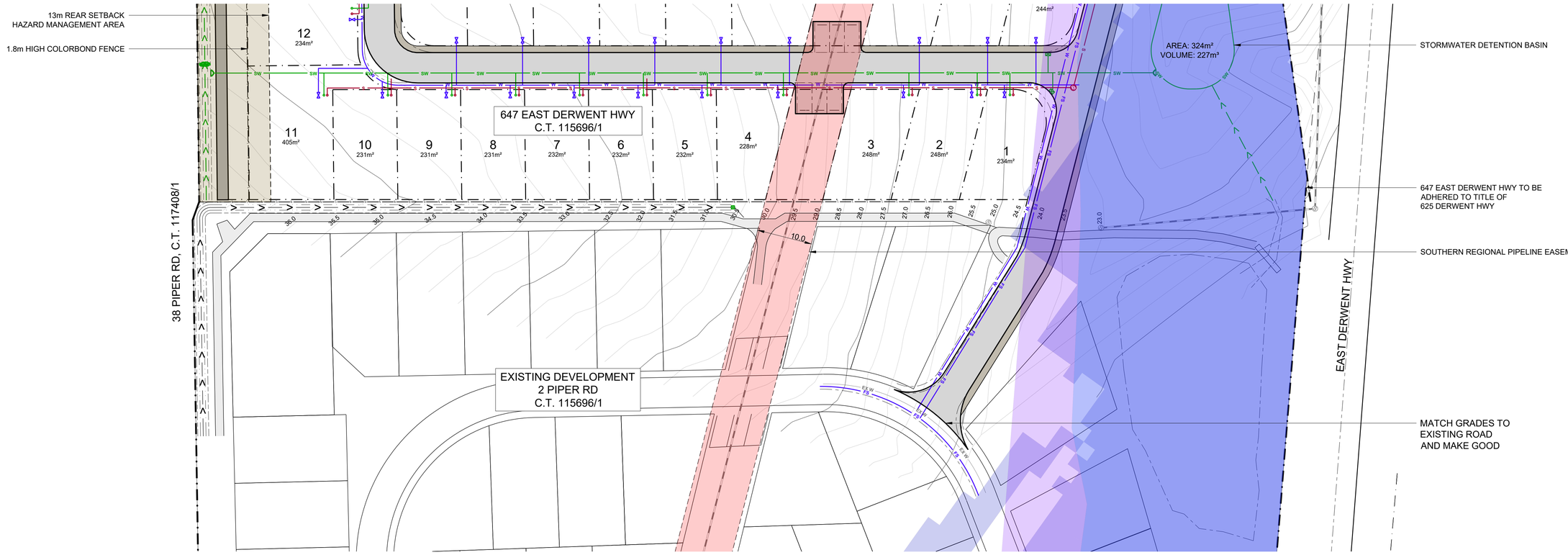
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- I.O. — INSPECTION OPENING TO SURFACE
- PROPOSED DN1050 MAINTENANCE HOLE
- EXISTING PUBLIC SEWER MAIN
- EXISTING PUBLIC WATER MAIN



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PROPOSED SITE PLAN - SHEET 2

SCALE: 1:400

4m 0 4 8 12 16 20m

SCALE 1:400 AT A1 SHEET

TRUE NORTH

REV	DESCRIPTION	BY	CHK	DATE
C	ADDED LOT AREAS	R.H.	M.H.	08/11/2024
B	REMOVAL OF EMERGENCY EXIT	S.M.	M.H.	05/08/2024
A	FOR PLANNING APPROVAL	DG	MH	25/10/2023

IMPORTANT
DRAWINGS MUST BE
PRINTED & READ IN COLOUR

JSA SCIENCE IN DESIGN
121 Sandy Bay Road, Sandy Bay TAS 7005
Phone (03) 6240 9911 www.jsa.com.au

CHECKED: M. HORSHAM CC5865 I	SCALE: AS SHOWN	SIZE: A1
CIVIL DESIGNER: M. BEKKER	HYDRAULIC ENGINEER: R. HORNER	
STATUS: PLANNING APPROVAL		

PROJECT: CLARENCE LIFESTYLE VILLAGE
647 EAST DERWENT HIGHWAY,
RISDON, 7017

DRAWING TITLE: PROPOSED SITE PLAN - SH 2

PROJECT NO	DWG NO	REV
17E99-118	C03	C

IMPORTANT
DRAWING MUST BE PRINTED & READ IN COLOUR

NOT FOR CONSTRUCTION

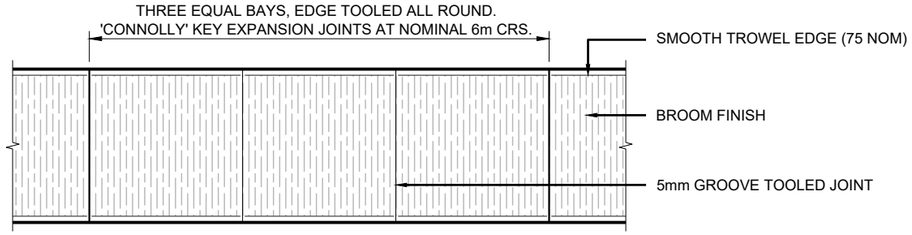
GENERAL

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE SERVICES AUTHORITY AND LOCATE EXISTING UNDER GROUND SERVICES PRIOR TO ANY EXCAVATION WORKS COMMENCING ON SITE.
2. AREAS DISTURBED BY EARTHWORKS ARE TO BE STRIPPED OF TOPSOIL TO A DEPTH OF 100mm (OR AS DIRECTED BY THE SUPERINTENDENT). TOPSOIL IS TO BE STOCKPILED ON SITE AND RE-SPREAD AFTER EARTHWORKS ARE COMPLETE.
3. A 100mm THICK LAYER OF SUB 2 40mm FCR MAY BE USED DURING CONSTRUCTION FOR TEMPORARY ACCESS. FOR WET GROUND WITH POOR DRAINAGE & BEARING CAPACITY, ADDITIONAL SUB GRADE REPLACEMENT USING 100mm SPALLS MAY BE REQUIRED. CONSULT ENGINEER.

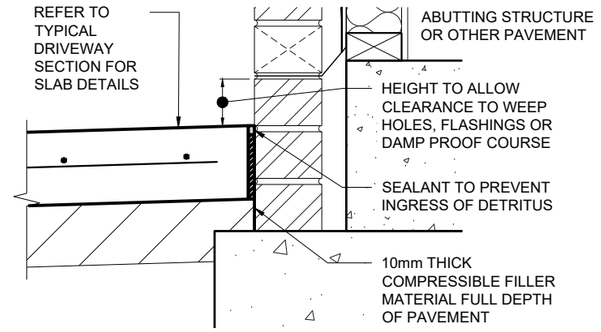
DRIVEWAY NOTES:

4. EXCAVATED AND IMPORTED MATERIAL USED AS FILL IS TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION,
5. FILL MATERIAL SHALL BE WELL GRADED AND FREE OF BOULDERS OR COBBLES EXCEEDING 150MM IN DIAMETER UNLESS APPROVED OTHERWISE.
6. FILL REQUIRED TO SUPPORT DRIVEWAYS INCLUDING FILL IN EMBANKMENTS THAT SUPPORT DRIVEWAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
   a. TOP SOIL AND ORGANIC MATTER SHALL BE STRIPPED TO A MINIMUM OF 100MM.
   b. THE SUB GRADE SHALL BE KEYED 150MM INTO NATURAL GROUND.
   c. THE FILL SHALL BE COMPACTED TO A MINIMUM DENSITY RATIO OF 95%, IT IS THE BUILDERS RESPONSIBILITY TO ENSURE THAT THIS IS ACHIEVED.
7. WHERE THE ABOVE REQUIREMENTS CANNOT BE ACHIEVED THE ENGINEER SHALL BE CONSULTED AND THE FORMATION SHALL BE PROOF ROLLED (UNDER SUPERVISION OF THE ENGINEER) TO DEMONSTRATE COMPACTION PRIOR TO THE PLACEMENT OF BASE OR SUB BASE COURSES.
8. UNREINFORCED CONCRETE KERBS AND CHANNELS SHALL HAVE TROWELED JOINT AT NOT MORE THAN 3.0M CENTRES.
9. 40x3 SAW CUTS AT MAX 5m CENTRES ALONG DRIVEWAY SLAB, CONTROL JOINTS AT MAX 15m, REFER TO DRIVEWAY SETOUT PLAN FOR LOCATION.
10. CONCRETE FOOTPATH. CONTROL / EXPANSION JOINTS (REFER TO DIAGRAM) .
11. FOR SPECIFICATIONS AND DETAILS NOT SHOWN WITH THIS DRAWING, THE BUILDER SHALL REFER TO AND COMPLY WITH CONSTRUCTION DETAIL PER AS3727.1 2016 PAVEMENTS PART 1: RESIDENTIAL.

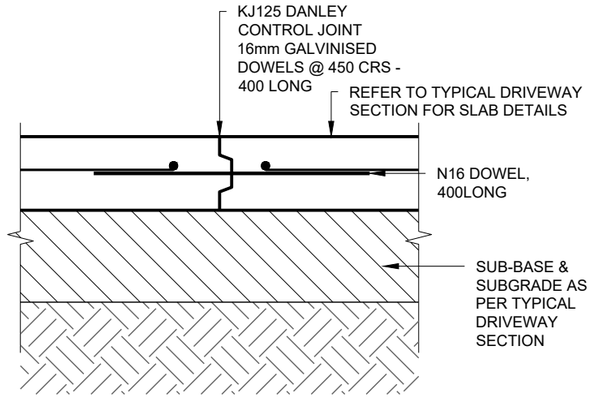
CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
DRIVEWAY	100	20	SL	NIL	25



REINFORCED CONCRETE FOOTPATH (NOTE 10)
SCALE: N.T.S.

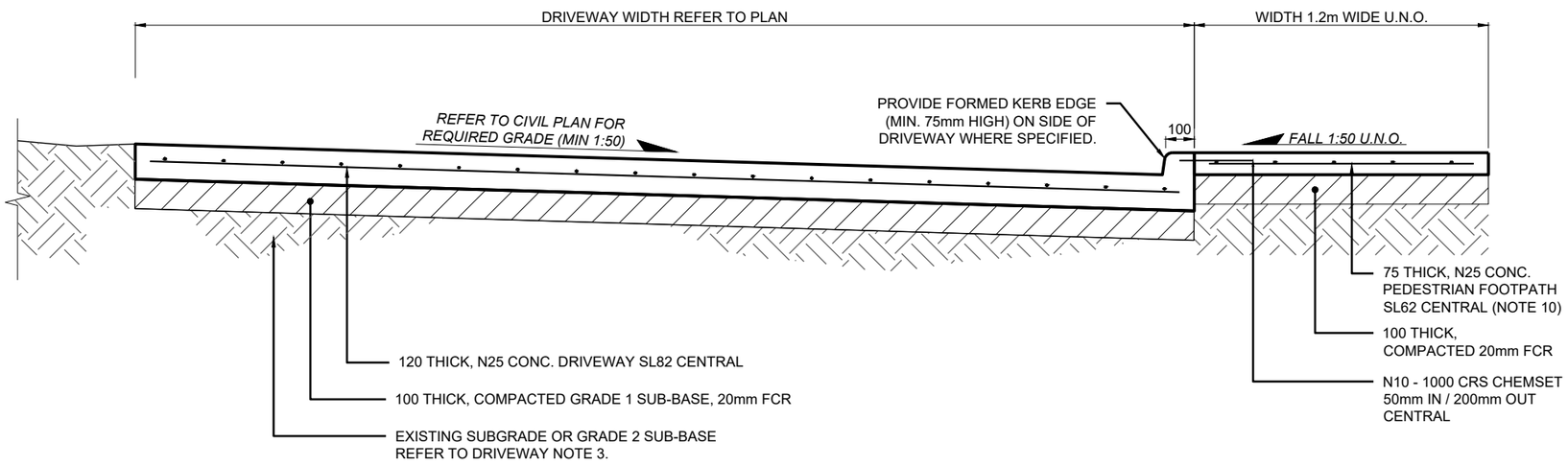


TYP. JOINT - ISOLATION
SCALE: 1:10



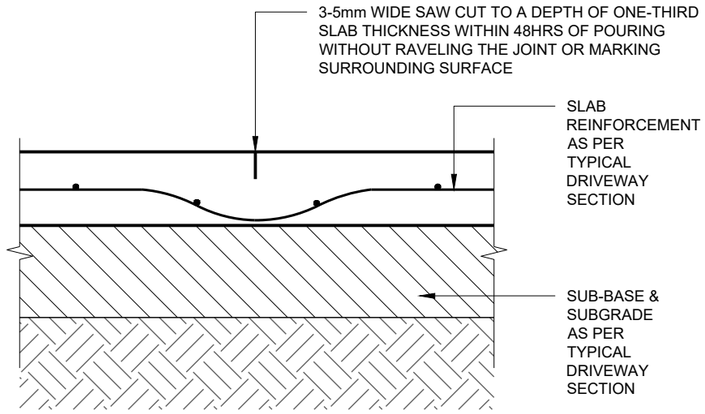
TYPICAL DANLEY JOINT
SCALE: 1:10

TYPICAL FOOTPATH



TYP. DRIVEWAY SECTION (CONCRETE)
SCALE: 1:20

TYP. FOOTPATH SECTION
SCALE: 1:20



TYPICAL SAWCUT
SCALE: 1:10

REV	DESCRIPTION	BY	CHK	DATE
C	ADDED LOT AREAS	R.H.	M.H.	08/11/2024
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121 Sandy Bay Road, Sandy Bay TAS 7005
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CHECKED: M. HORSHAM CC5865 I	SCALE: AS SHOWN	SIZE: A3
CIVIL DESIGNER: M. BEKKER	HYDRAULIC ENGINEER: R. HORNER	
STATUS: **PLANNING APPROVAL**		

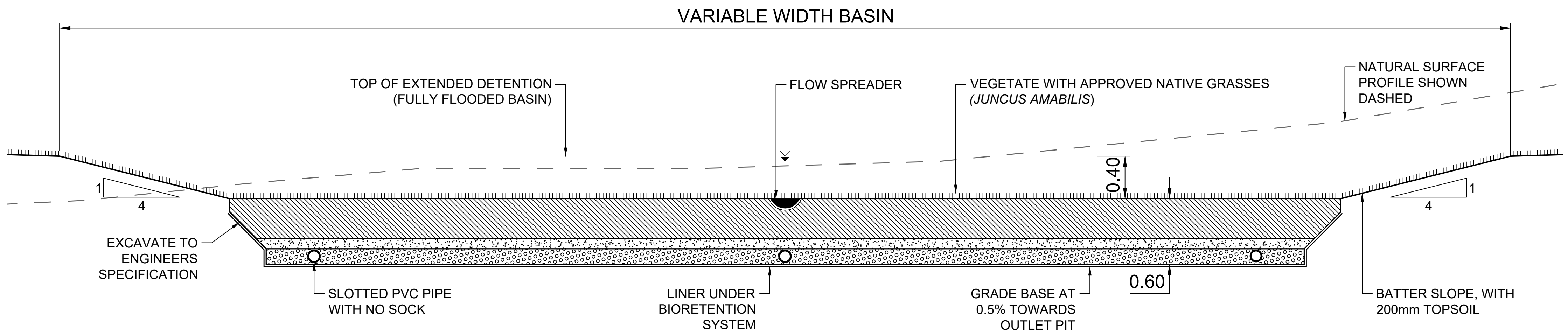
PROJECT: CLARENCE LIFESTYLE VILLAGE
647 EAST DERWENT HIGHWAY,
RISDON, 7017

DRAWING TITLE: TYP. DRIVEWAY & FOOTPATH SECTIONS (CONCRETE)

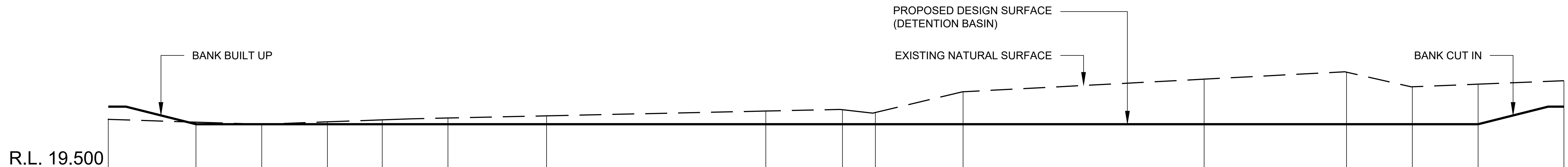
PROJECT NO	DWG NO	REV
17E99-118	**C04**	**C**

IMPORTANT
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NOT FOR CONSTRUCTION



B-B
C02
TYPICAL BASIN SECTION
SCALE: 1:50



Existing Levels	20.61	20.54	20.50	20.55	20.60	20.64	20.69	20.80	20.83	20.76	21.24	21.52	21.68	21.35	21.41	21.49
Chainage	0.00	2.00	3.50	5.00	6.25	7.75	10.00	15.00	16.75	17.50	19.50	25.00	28.25	29.75	31.25	33.21

A-A
C02
EXISTING SURFACE BASIN SECTION
SCALE: H 1:100 V 1:100

REV	DESCRIPTION	BY	CHK	DATE
C	ADDED LOT AREAS	R.H.	M.H.	08/11/2024
B	REMOVAL OF EMERGENCY EXIT	S.M.	M.H.	05/08/2024
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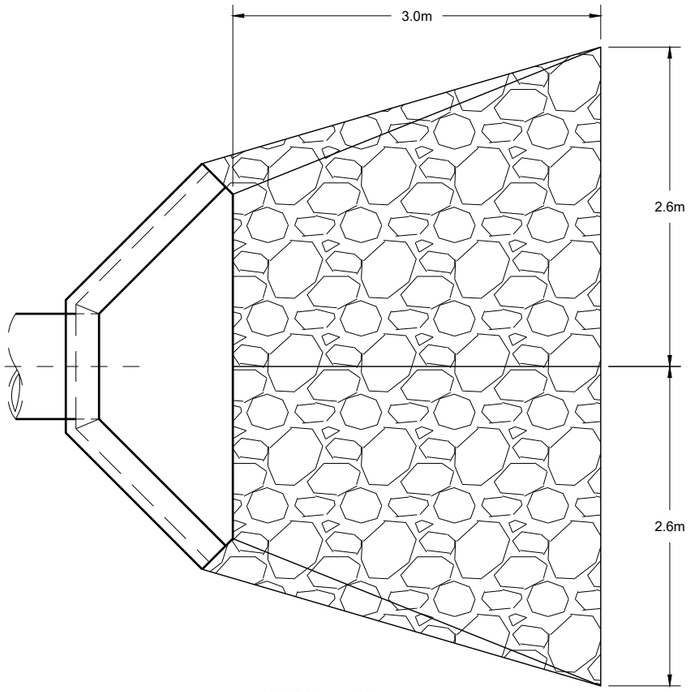
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647 EAST DERWENT HIGHWAY,
RISDON, 7017

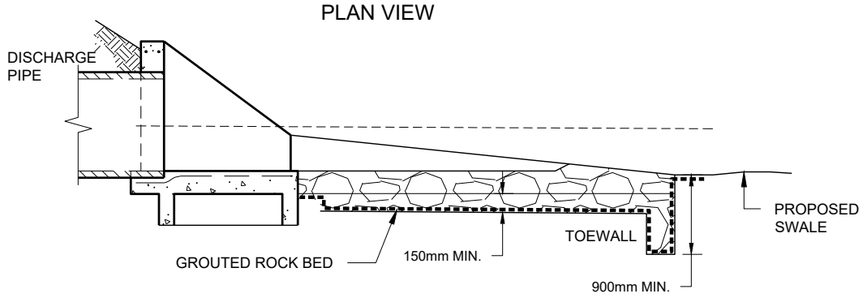
DRAWING TITLE: DETENTION BASIN SECTIONS
PROJECT NO: **17E99-118**
DWG NO: **C05**
REV: **C**

IMPORTANT
DRAWING MUST BE
PRINTED & READ IN COLOUR

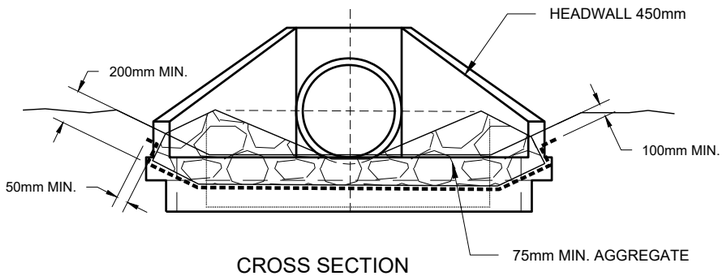
NOT FOR CONSTRUCTION



PLAN VIEW



PROFILE VIEW



CROSS SECTION

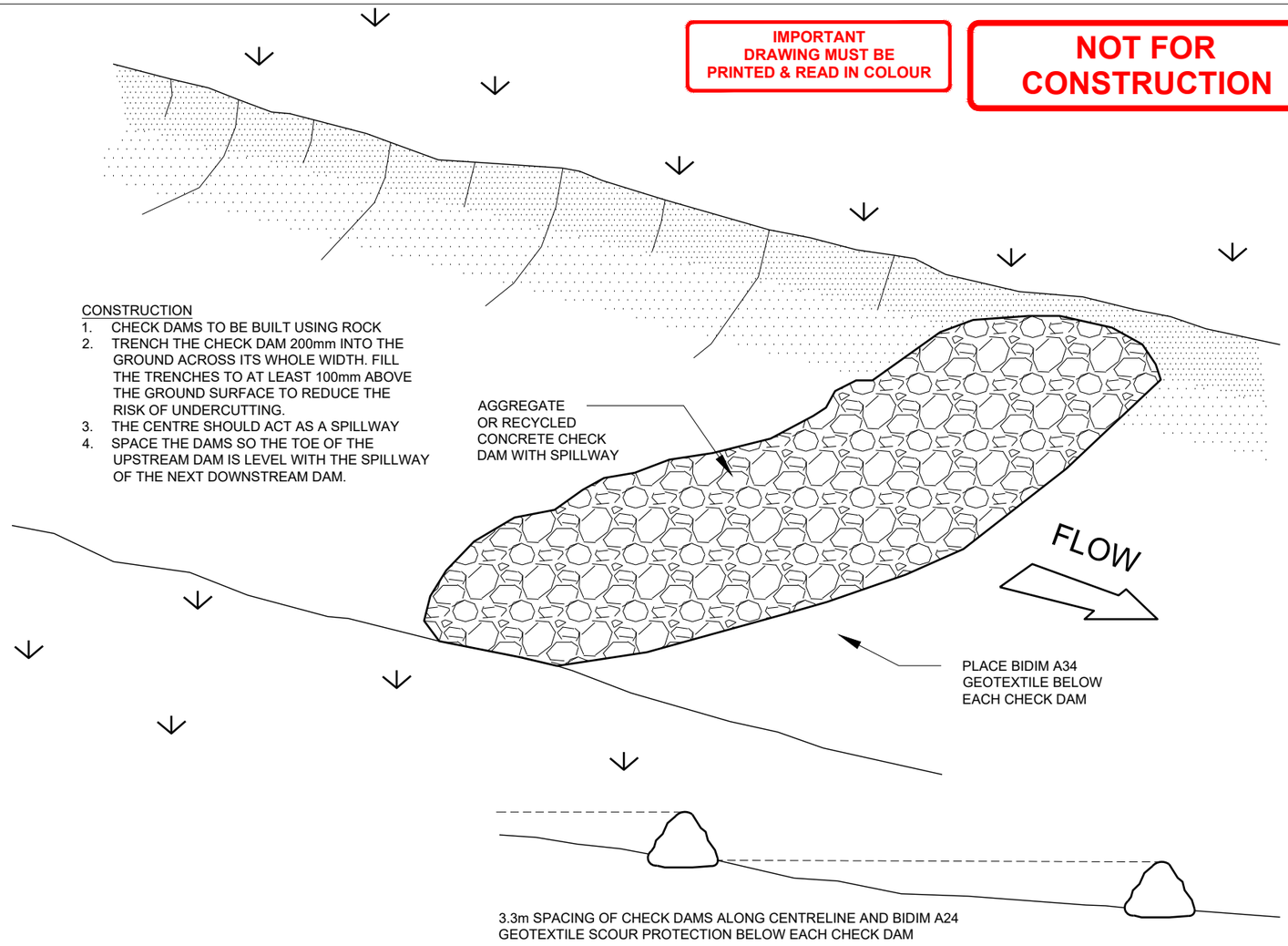
C-C
C02

HEADWALL - SWALE DETAIL

SCALE: 1:50

CONSTRUCTION

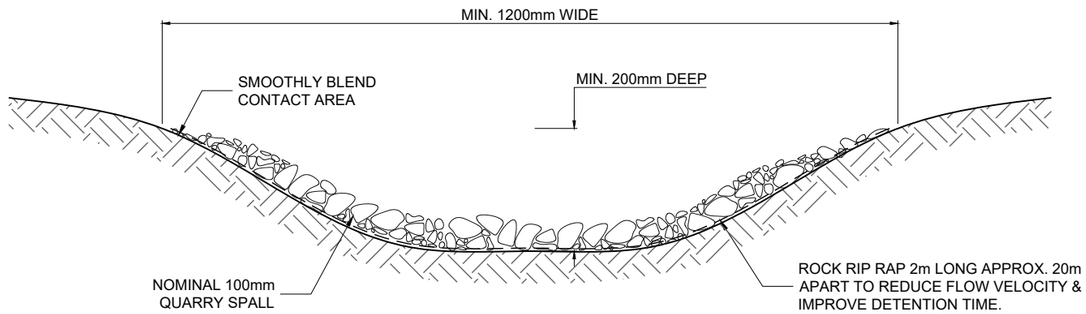
1. CHECK DAMS TO BE BUILT USING ROCK
2. TRENCH THE CHECK DAM 200mm INTO THE GROUND ACROSS ITS WHOLE WIDTH. FILL THE TRENCHES TO AT LEAST 100mm ABOVE THE GROUND SURFACE TO REDUCE THE RISK OF UNDERCUTTING.
3. THE CENTRE SHOULD ACT AS A SPILLWAY
4. SPACE THE DAMS SO THE TOE OF THE UPSTREAM DAM IS LEVEL WITH THE SPILLWAY OF THE NEXT DOWNSTREAM DAM.



3.3m SPACING OF CHECK DAMS ALONG CENTRELINE AND BIDIM A24 GEOTEXTILE SCOUR PROTECTION BELOW EACH CHECK DAM

CHECK DAM DETAIL ALONG SWALE

SCALE: NTS



D-D
C02

TYPICAL SWALE DRAIN - SECTION VIEW

SCALE: 1:10

REV	DESCRIPTION	BY	CHK	DATE
C	ADDED LOT AREAS	R.H.	M.H.	08/11/2024
B	REMOVAL OF EMERGENCY EXIT	S.M.	M.H.	05/08/2024
A	FOR PLANNING APPROVAL	M.B.	M.H.	25/10/2023

JSA
SCIENCE IN DESIGN
121 Sandy Bay Road, Sandy Bay TAS 7005
Phone (03) 6240 9911 www.jsa.com.au

CHECKED: M. HORSHAM CC5865 I	SCALE: AS SHOWN	SIZE: A3	PROJECT: CLARENCE LIFESTYLE VILLAGE 647 EAST DERWENT HIGHWAY, RISDON, 7017
CIVIL DESIGNER: M. BEKKER	HYDRAULIC ENGINEER: R. HORNER		
STATUS: **PLANNING APPROVAL**			

DRAWING TITLE: TYP. SWALE DRAIN & HEADWALL SECTIONS

PROJECT NO	DWG NO	REV
17E99-118	**C06**	**C**