

GENERAL NOTES

- G1. THESE NOTES APPLY TO ALL DRAWINGS IN THE CONTRACT SET. WHERE SPECIFIC NOTES ON OTHER DRAWINGS APPLY THEY SHOULD BE READ IN CONJUNCTION WITH THE GENERAL NOTES.
- G2. ALL DIMENSIONS ARE IN METRES (m). (UNLESS OTHERWISE STATED)
- G3. ALL LEVELS SHOWN ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- G4. DO NOT SCALE DIMENSIONS FROM DRAWINGS.
- G5. WORKS TO BE COMPLETED IN ACCORDANCE WITH AS 4000 – 1997 GENERAL CONDITIONS OF CONTRACT, TO THE APPROVED PLAN, TO THE SATISFACTION OF THE SUPERINTENDENT AND TO ALL RELEVANT STANDARD DRAWINGS WHERE APPLICABLE.
- G6. WORKS SUPERVISOR TO BE CONTACTED A MINIMUM OF 5 WORKING DAYS PRIOR TO COMMENCEMENT OF ANY WORKS THAT AFFECT ROAD ASSETS.
- G7. A PLANNING PERMIT IS REQUIRED FOR A NEW ACCESS OR ALTERATION TO AN EXISTING DRIVEWAY AND MAY BE REQUIRED FOR THE REMOVAL OF NATIVE VEGETATION.
- G8. A TRAFFIC MANAGEMENT PLAN MUST BE PREPARED AND IS TO COMPLY WITH THE RELEVANT CODE OF PRACTICE FOR WORK SITE SAFETY TRAFFIC MANAGEMENT IN RELATION TO ANY WORKS UNDERTAKEN WITHIN THE ROAD RESERVE.
- G9. THE TYPICAL PAVEMENT DIAGRAM SHOWN ON THIS SHEET IS A GUIDE FOR A TYPICAL LAYOUT OF A ROADWAY ACCESS FOR A RURAL ROAD.
- G10. PAVEMENT LINE MARKING REQUIREMENTS AS PER SHEET 10 OF 10.
- G11. UNDERGROUND SERVICES:
PRIOR TO ANY EXCAVATION WORKS, CHECK WITH ALL RELEVANT RESPONSIBLE AUTHORITIES (e.g. TELECOMMUNICATIONS, ELECTRICITY, GAS, WATER etc.)
- ABOVEGROUND SERVICES:
PRIOR TO ANY WORKS AN INSPECTION OF THE CONSTRUCTION FOOTPRINT SHOULD BE UNDERTAKEN TO IDENTIFY ANY ABOVEGROUND SERVICES AND APPROPRIATE PRECAUTIONS TAKEN TO ELIMINATE THE POTENTIAL OH&S RISKS.
- G12. THE CONTRACTOR IS REQUIRED TO CONFINE ALL CONSTRUCTION VEHICLES TO THE EASEMENTS AND ROAD RESERVES. ANY DAMAGE CAUSED TO ADJACENT PROPERTIES MUST BE MADE GOOD.
- G13. ALL FILL AREAS TO BE COMPACTED AS SPECIFIED. ALL STRUCTURAL FILLING MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND THE RELEVANT ROAD AUTHORITY PRIOR TO PLACEMENT.
- G14. ALL FILL AREAS EXCEEDING 200mm ARE TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO ACHIEVE THE FINAL FINISHED FILL LEVELS SHOWN ON THE DRAWINGS.
- G15. SUBGRADE TO BE SELECT CLAY MATERIAL PLACED IN 150mm LAYERS. (ASSUME CBR OF 10%)
- G16. RESERVES/EASEMENTS TO BE LEFT IN A CONDITION SATISFACTORY TO THE SUPERINTENDENT AND RELEVANT ROAD AUTHORITY.
- G17. ALL PIPE AND SERVICE TRENCHES UNDER ROADS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK.
- G18. NO TOPSOIL IS TO BE REMOVED FROM SITE.
- G19. UNLESS OTHERWISE SHOWN, ALL TREE'S AND SHRUB'S ARE TO BE RETAINED. WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT WHERE PARTICULAR CONSTRUCTION NECESSITATES THEIR REMOVAL.
- G20. ALL DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH THE EPA'S GUIDELINE "CONSTRUCTION GUIDELINES FOR CONSTRUCTION SITES" – DECEMBER 1995.
- G21. ENVIRONMENTAL PROTECTION INCLUDING SILT CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- G22. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CARE AND MAINTENANCE OF ALL TBM'S. TBM'S FOUND TO BE DISTURBED OR MISSING AT THE COMMENCEMENT OF CONSTRUCTION ARE TO BE RE-ESTABLISHED BY A QUALIFIED SURVEYOR.
- G23. ALL WORKS SHALL BE SETOUT AND PEGGED ACCURATELY PRIOR TO THE COMMENCEMENT OF WORKS BY A SUITABLY QUALIFIED SURVEYOR.

CONSTRUCTION SETOUT TABLE

POINT NO.	EASTING	NORTHING	RL (AHD)	DESCRIPTION
1	408343.028	6174124.320	124.02	DESIGN EDGE OF SEAL
2	408346.486	6174122.744	123.89	DESIGN ROAD CENTRELINE
3	408349.943	6174121.168	123.76	DESIGN EDGE OF SEAL
4	408350.908	6174123.285	–	DESIGN EDGE OF SEAL
5	408364.683	6174126.982	123.21	DESIGN EDGE OF SEAL
6	408383.286	6174167.793	–	DESIGN EDGE OF SEAL
7	408366.445	6174175.692	–	DESIGN EDGE OF SEAL
8	408371.181	6174176.764	123.00	ROAD CENTRELINE/GRADE CHANGE
9	408387.126	6174218.564	123.13	DESIGN EDGE OF SEAL
10	408390.488	6174216.787	123.00	DESIGN ROAD CENTRELINE
11	408392.823	6174212.883	122.87	DESIGN EDGE OF SEAL
12	408403.581	6174209.866	122.51	DESIGN EDGE OF SEAL
13	408407.553	6174216.753	122.51	DESIGN EDGE OF SEAL
14	408407.186	6174218.119	–	DESIGN EDGE OF SEAL
15	408397.726	6174221.733	–	DESIGN EDGE OF SEAL
16	408408.511	6174234.725	–	DESIGN EDGE OF SEAL
17	408398.461	6174238.218	–	DESIGN EDGE OF SEAL
18	408414.066	6174249.754	123.00	CENTRE POINT / RADIUS 10m
19	408404.604	6174253.429	–	DESIGN EDGE OF SEAL
20	408419.856	6174241.416	–	DESIGN EDGE OF SEAL
21	408424.164	6174250.785	122.67	EDGE OF CONCRETE BOAT RAMP
22	408453.691	6174279.274	117.81	EDGE OF CONCRETE BOAT RAMP
23	408448.137	6174285.032	117.81	EDGE OF CONCRETE BOAT RAMP
24	408420.062	6174257.944	122.67	EDGE OF CONCRETE BOAT RAMP

EARTHWORK NOTES

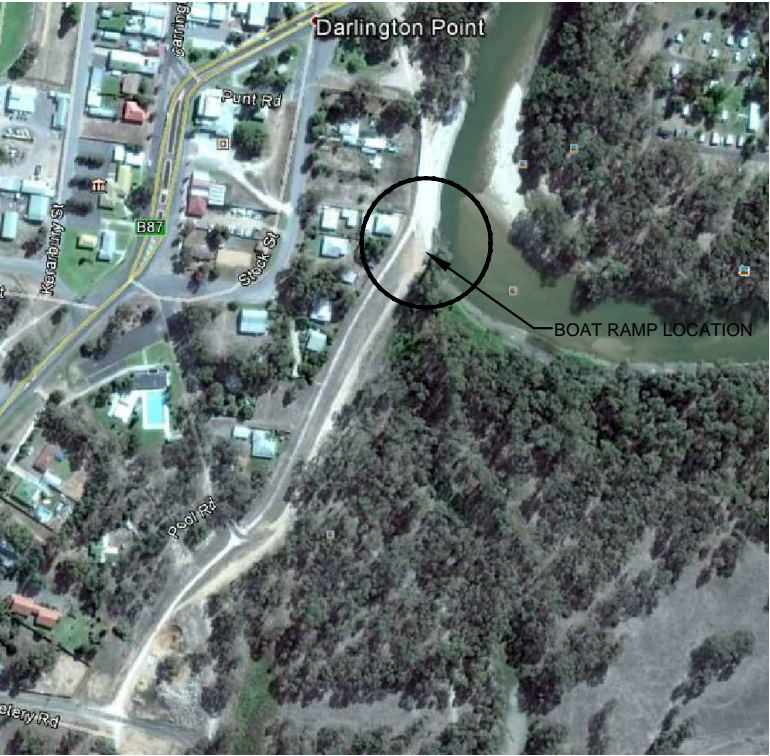
- E1. RECORDS SHALL BE KEPT OF ALL EARTHWORK CONSTRUCTION AS CONTAINED IN AS3798–2007 CLAUSE 3.4 AND A COPY MADE AVAILABLE TO THE SUPERINTENDENT UPON COMPLETION.
- E2. ALL TOPSOIL SHALL BE SPRAYED WITH A PRE-EMERGENT HERBICIDE PRIOR TO STRIPPING.
- E3. PRIOR TO THE COMMENCEMENT OF WORKS THE SITE SHALL BE STRIPPED AND MATERIAL STOCKPILED AT DESIGNATED LOCATIONS CLEAR OF THE WORKS.
- E4. ANY EXCESS TOPSOIL SHALL REMAIN THE PROPERTY OF THE PRINCIPAL AND IS TO BE STORED AS DIRECTED FOR USE IN THE FUTURE.
- E5. ALL SUBGRADE FILL MATERIAL IS NOT TO CONTAIN ANY VEGETABLE MATTER AND SHOULD CONFORM TO ONE OF THE CLASSES LISTED BELOW.
- * GW–SC WELL GRADED SAND AND GRAVEL WITH CLAY BINDER
 - * GC CLAYEY GRAVEL SOILS
 - * SW–SC SAND WITH CLAY BINDER
 - * SC SILTY CLAY
- E6. ALL LOOSE FILL MATERIAL SHALL BE SPREAD BEFORE COMPACTION TO FORM AN EVEN LAYER THICKNESS. WHERE PRACTICABLE THE LAYERS SHALL BE PARALLEL TO THE FINISHED SURFACE OR HORIZONTAL.
- E7. FILL MATERIAL IS TO BE PLACED IN 150mm LAYERS COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH AS 1289–E1.1.
- E8. DUST SUPPRESSION IS TO BE ACHIEVED USING AN APPROVED METHOD OR COMBINATION OF METHODS.
- E9. THE MOISTURE CONTENT OF THE FILL MATERIAL IS TO BE MONITORED AT ALL TIMES. WHERE NECESSARY ADDITIONAL WATER WILL BE BROUGHT TO THE SITE AND ADDED TO THE FILL MATERIAL AT A CONTROLLED RATE. THE WATER IS TO BE CLEAN AND CARTED/DISTRIBUTED USING APPROVED EQUIPMENT ONLY.
- E10. ANY SOFT AREAS ENCOUNTERED ARE TO BE INSPECTED BY THE SUPERINTENDENT. THE SUPERINTENDENT MAY DETERMINE THAT THE SOFT MATERIAL IS TO BE EXCAVATED AND REMOVED FROM THE SITE. WHERE THE MATERIAL WITHIN THE SOFT SPOT IS DEEMED BY THE SUPERINTENDENT TO BE RECOVERABLE. THE SUPERINTENDENT MAY ALSO DETERMINE A METHODOLOGY FOR TREATING THE UNSUITABLE MATERIAL.
- E11. ALL HAULAGE ROUTES AND ALIGNMENTS WILL BE SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT.
- E12. ALL UNSUITABLE MATERIALS INCLUDING BUT NOT LIMITED TO LITTER, BUILDING WASTE, STONE, RUBBLE, DEBRIS, ORGANIC MATERIAL AND VEGETABLE MATTER SHALL NOT BE INCORPORATED INTO THE WORK. ALL SUCH MATERIAL SHALL BE COLLECTED ON A REGULAR BASIS AND STOCKPILED CLEAR OF THE WORKS AND IS TO BE DISPOSED OF BY THE CONTRACTOR TO AN APPROVED LOCATION.
- E13. DE–WATERING WHERE APPLICABLE IS TO BE CARRIED OUT IN ACCORDANCE WITH THE EPA'S "CONSTRUCTION GUIDELINES FOR MAJOR CONSTRUCTION SITES" – DECEMBER 1995.
- E14. ALL SURPLUS SPOIL MATERIAL NOT REQUIRED IS TO BE STOCKPILED CLEAR OF THE WORKS.
- E15. ANY BORROW MATERIAL REQUIRED FOR SUBGRADE WILL BE SOURCED FROM AN APPROVED LOCATION AND TESTED IN ACCORDANCE WITH AS 1209.3.8.1.
- E16. THE CONTRACTOR SHALL KEEP AND MAINTAIN DETAILED RECORDS OF THE COMPACTION METHOD USED AND THE PLACEMENT OF ALL FILL MATERIALS.
- E17. THERE IS TO BE NO FILL MATERIAL PLACED AGAINST OR WITHIN CLOSE PROXIMITY TO FENCES OR OTHER NON STRUCTURAL OBJECTS WITHOUT THE SUPERINTENDENTS PRIOR APPROVAL.

BEACHING NOTES

- B1. BEACHING STONE SHALL CONSIST OF CLEAN SOUND HARD QUARRIED ROCK OF UNIFORM QUALITY WITH AN UNCONFINED CRUSHING STRENGTH OF NOT LESS THAN 25MPa AND FREE OF DEFINED CLEAVAGE PLANES.
- B2. THE SIZE AND GRADING OF THE STONE SHALL CONFORM AS NEARLY AS PRACTICAL TO THE SIZES SET OUT IN TABLE 1.
- B3. THE MINIMUM THICKNESS SHALL BE AS DEFINED IN TABLE 1.
- B4. UNLESS NOTED OTHERWISE THE STANDARD BEACHING SIZE SHALL BE TYPE 3.
- B5. ALL BEACHING TO BE UNDERLAIN BY BIDIM A44 OR APPROVED EQUIVALENT GEOTEXTILE MEMBRANE KEYS IN ALONG ALL EDGES.

% PASSING SCREEN SIZE			
% PASSING	TYPE 2	TYPE 3	D50 = 225
450mm	–	–	100
300mm	–	100	70–95
225mm	100	70–95	40–65
150mm	60–65	50–70	20–35
75mm	40–65	35–50	10–20
37.5	20–35	15–30	–
26.5	10–20	10–20	–
MINIMUM LAYER THICKNESS	150	225	300

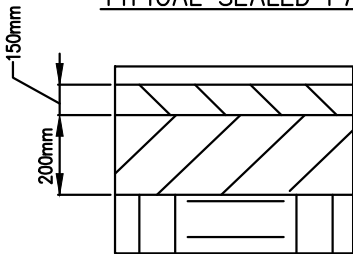
EARTHWORKS AND CONCRETE SCHEDULE							
ITEM	SEAL (m2)	BASECOURSE (m3)	SUBBASE (m3)	CUT (m3)	FILL (m3)	CONCRETE (m3)	CONCRETE STRENGTH (MPa)
SEALED ROADWAY	2519	497	663	330	1318		
UNSEALED ROADWAY		2376					
BOAT RAMP				350.75	4.5	81	40
ACCESS RAMP						21	25
TOTALS	2519	2873	663	680.75	1322.50	102	64.50



LOCALITY PLAN

SCALE – NTS

TYPICAL SEALED PAVEMENT



7mm Primerseal +
14/7 Two coat final seal

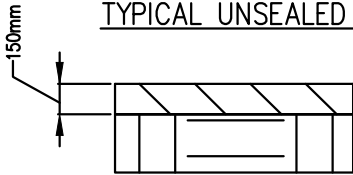
Basecourse – 50% mix PSG & Class 2 FCR –
Stabilise with 1.5% Triple Blend

Subbase – PSG – Stabilise with 1.5% Triple Blend
Assume CBR of > 30%

Subgrade – Assume
CBR of 10% – Stabilise with 3% Quicklime

*Triple Blend – 60% Cement, 30% Slag, 10% Fly Ash.

TYPICAL UNSEALED PAVEMENT



Basecourse – 50% mix PSG & Class 2 FCR –
Stabilise with 1.5% Triple Blend

Subgrade – Assume
CBR of 10% – Stabilise with 3% Quicklime

*Triple Blend – 60% Cement, 30% Slag, 10% Fly Ash.

DRAWING SET REGISTER

DRAWING NO.	DRAWING DESCRIPTION	REVISION
2016–107/SHT1	DESIGN NOTES AND LOCALITY PLAN	2
2016–107/SHT2	DESIGN NOTES 2	2
2016–107/SHT3	SITE PLAN	3
2016–107/SHT4	BOAT RAMP SITE PLAN	3
2016–107/SHT5	RIVER CROSS–SECTIONS	3
2016–107/SHT6	RAMP CROSS–SECTIONS	3
2016–107/SHT7	ROADWAY CROSS–SECTIONS	2
2016–107/SHT8	ROADWAY LONGITUDINAL SECTION	2
2016–107/SHT9	DESIGN DETAILS	2
2016–107/SHT10	PAVEMENT LINE MARKING DETAILS	2
2016–107/SHT11	PONTOON DESIGN PLAN AND DETAILS	2

–	–				–
2	23/10/17				ISSUED FOR CONSTRUCTION
1	30–08–17				ISSUED FOR DISCUSSION
REV	DATE	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	REVISIONS

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LEVEL BOOK: AMS–BK101



SCALE
N.T.S.

SURVEYED BY
D.LEE

DRAWN
D.LEE

DESIGNED
D.LEE

DATE
30–08–17



MURRUMBIDGEE SHIRE COUNCIL / APEX CLUB
PROPOSED DARLINGTON POINT BOAT RAMP
DESIGN NOTES & LOCALITY PLAN

RICH RIVER IRRIGATION DEVELOPMENTS
Unit 1, 164 Ogilvie Avenue, Echuca. 3564.
Telephone (03) 5482 2564 Fax (03) 5482 1918 Email admin@rrid.com.au

SHEET NUMBER
01 OF 11

DRAWING NUMBER
2016–107

REVISION
2



LOCALITY PLAN
NOT TO SCALE

PM 24182
124.35



Services
The location of services shown on the plan should be proven to be correct prior to construction.
The relevant authorities should be contacted prior to commencement of works to ascertain the correct location of all services.

3	23/10/17	ISSUED FOR CONSTRUCTION	
2	30/08/17	PRELIMINARY DESIGN FOR DISCUSSION	
1	21/12/16	DRAFT FOR DISCUSSION	
REV	DATE	REVISIONS	

Disclaimer
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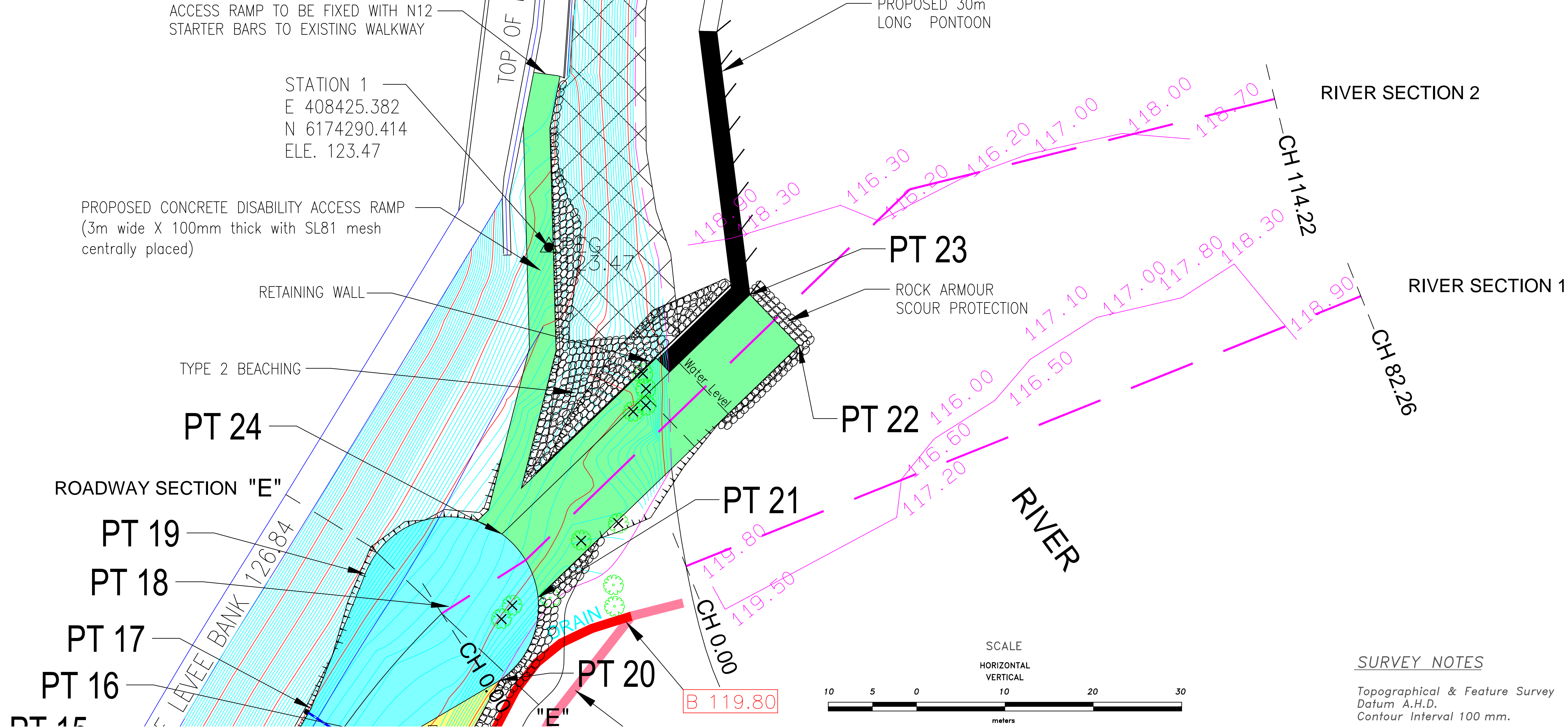
LEGEND											
Asphalt Driveway	Concrete Driveway	Gravel Driveway	S.E.C. U/G Cable	Fire Hydrant	Proposed Culvert	Asphalt Driveway	Concrete Driveway	Gravel Driveway	S.E.C. U/G Cable	Fire Hydrant	Proposed Culvert
Proposed K & C	Permanent Mark	Tree to be removed	Gas Main	Fire Plug	Proposed Picnic Table	Proposed K & C	Permanent Mark	Tree to be removed	Gas Main	Fire Plug	Proposed Picnic Table
Conduits	Telstra U/G Cable	Telstra Pole	Sewer Main	Valve	Proposed Shelter	Conduits	Telstra U/G Cable	Telstra Pole	Sewer Main	Valve	Proposed Shelter
Existing Drains	Water Main	Telstra Pit	Property Outlet	S.E.C. Pole	Survey Station	Existing Drains	Water Main	Telstra Pit	Property Outlet	S.E.C. Pole	Survey Station
Existing Drain Pits	Proposed Drain Pits	Proposed Drains	Existing K & Ch	Existing Culvert	Rock Spalling	Existing Drain Pits	Proposed Drain Pits	Proposed Drains	Existing K & Ch	Existing Culvert	Rock Spalling



MURRUMBIDGEE SHIRE COUNCIL / APEX CLUB			
PROPOSED DARLINGTON POINT BOAT RAMP			
SITE PLAN			
RICH RIVER IRRIGATION DEVELOPMENTS UNIT 1, 164 OGILVIE AVENUE, ECHUCA 3564 Telephone (03) 5482 2564 Fax (03) 5482 1918	TITLE: DARLINGTON POINT BOAT RAMP DESCRIPTION: SITE PLAN (1:1000)	SIZE A1	SHEET NUMBER 03 of 11
		DRAWING NUMBER 2016-107	REVISION 3



LOCALITY PLAN
NOT TO SCALE



Services
The location of services shown on the plan should be proven to be correct prior to construction.
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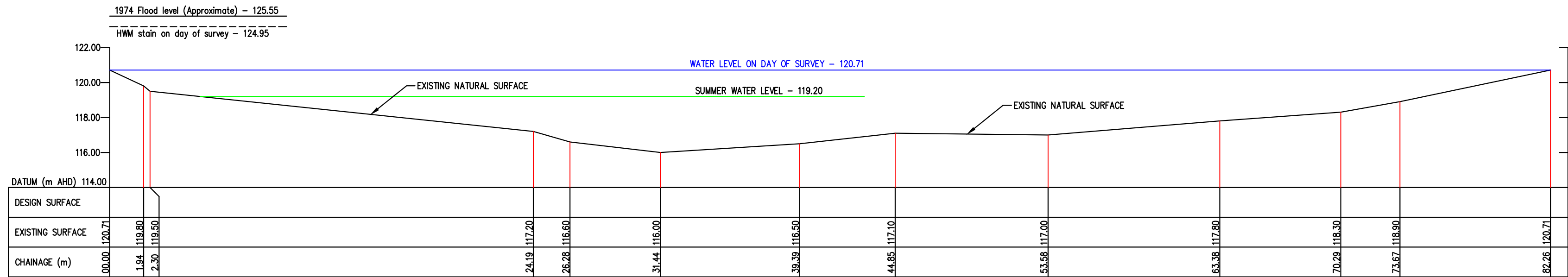
REV	DATE	REVISIONS
3	23/10/17	ISSUED FOR CONSTRUCTION
2	30/08/17	PRELIMINARY DESIGN FOR DISCUSSION
1	21/12/16	DRAFT FOR DISCUSSION

Disclaimer
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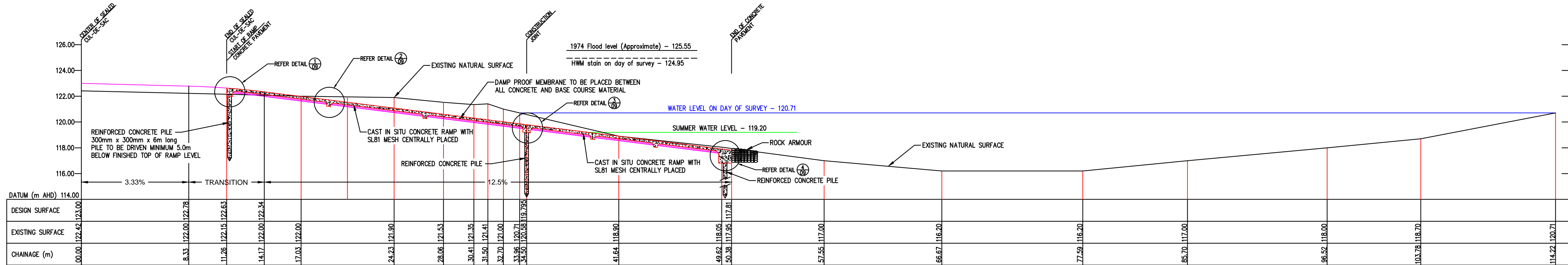
LEGEND											
Asphalt Driveway	Concrete Driveway	Gravel Driveway	S.E.C. U/G Cable	Fire Hydrant	Proposed Culvert	Proposed K & C	Permanent Mark	Tree to be removed	Gas Main	Fire Plug	Proposed Picnic Table
Conduits	Telstra U/G Cable	Telstra Pole	Sewer Main	Valve	Proposed Shelter	Existing Drains	Water Main	Telstra Pit	Property Outlet	S.E.C. Pole	Proposed Shelter
Existing Drain Pits	Proposed Drain Pits	Proposed Drains	Existing K & Ch	Existing Culvert	Rock Spalling						



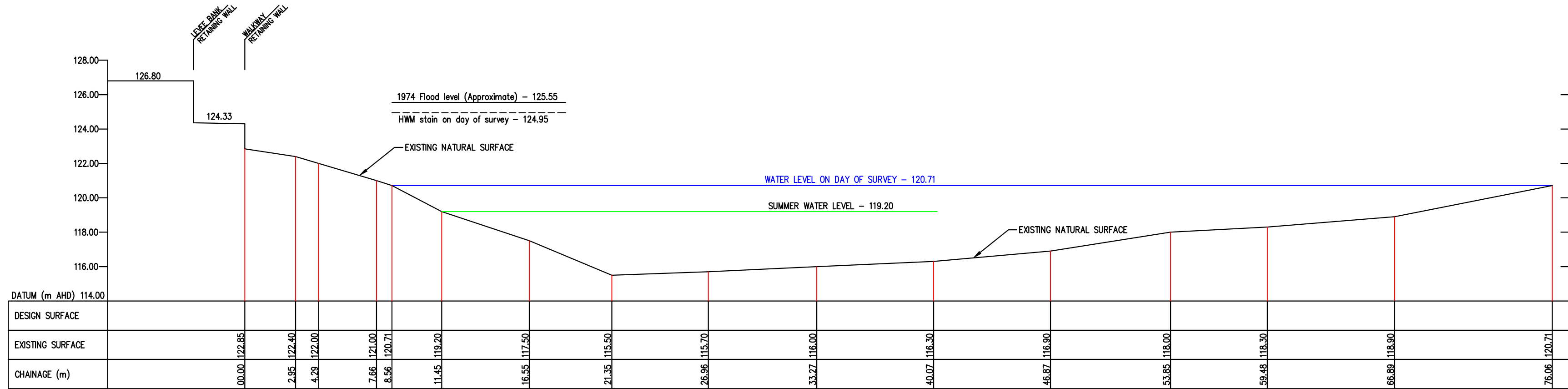
MURRUMBIDGEE SHIRE COUNCIL / APEX CLUB					PROPOSED DARLINGTON POINT BOAT RAMP				
BOAT RAMP SITE PLAN					BOAT RAMP SITE PLAN				
RICH RIVER IRRIGATION DEVELOPMENTS UNIT 1, 164 OGILVIE AVENUE, ECHUCA 3564 Telephone (03) 5482 2564 Fax (03) 5482 1918					TITLE: DARLINGTON POINT BOAT RAMP DESCRIPTION: BOAT RAMP SITE PLAN (1:250)				
SIZE A1					SHEET NUMBER 04 of 11				
DRAWING NUMBER 2016-107					REVISION 3				



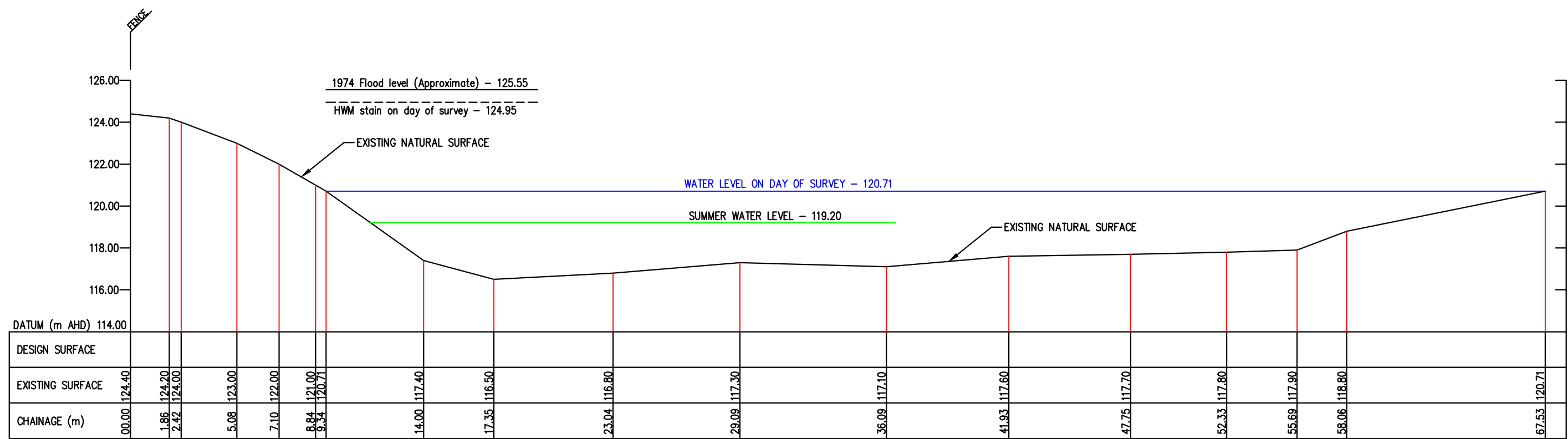
RIVER CROSS-SECTION 1
SCALE 1:200 HORIZONTAL 1:200 VERTICAL
(Chainage 0.00 to Chainage 82.26)



RIVER CROSS-SECTION 2
SCALE 1:200 HORIZONTAL 1:200 VERTICAL
(Chainage 0.00 to Chainage 114.22)



RIVER CROSS-SECTION 3
SCALE 1:200 HORIZONTAL 1:200 VERTICAL
(Chainage 0.00 to Chainage 76.06)



RIVER CROSS-SECTION 4
SCALE 1:200 HORIZONTAL 1:200 VERTICAL
(Chainage 0.00 to Chainage 67.53)

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LEGEND

Asphalt Driveway		Concrete Driveway		Gravel Driveway		S.E.C. U/G Cable		Fire Hydrant		Proposed Culvert	
Proposed K & C		Permanent Mark		Tree to be removed		Gas Main		Fire Plug		Proposed Picnic Table	
Conduits		Telstra U/G Cable		Telstra Pole		Sewer Main		Valve		Proposed Shelter	
Existing Drains		Water Main		Telstra Pit		Property Outlet		S.E.C. Pole		Survey Station	
Existing Drain Pits		Proposed Drain Pits		Proposed Drains		Existing K & Ch		Existing Culvert		Rock Spalling	

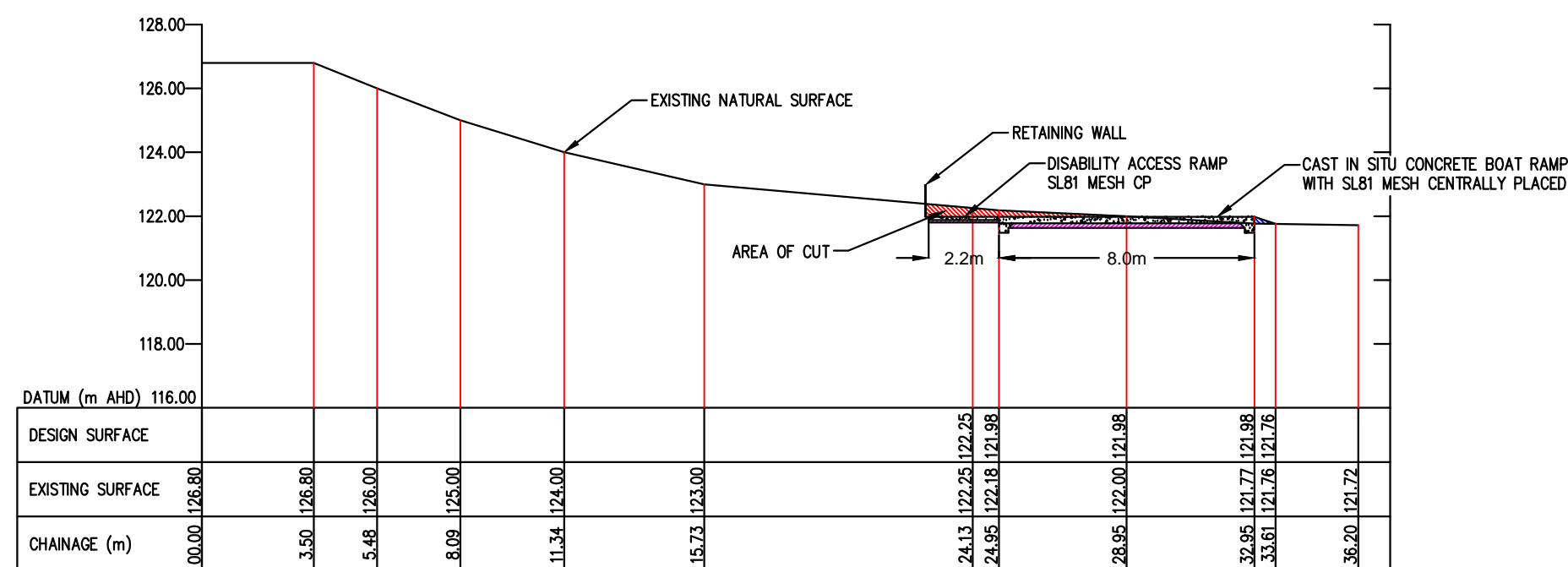


MURRUMBIDGEE SHIRE COUNCIL / APEX CLUB
PROPOSED DARLINGTON POINT BOAT RAMP
RIVER CROSS - SECTIONS

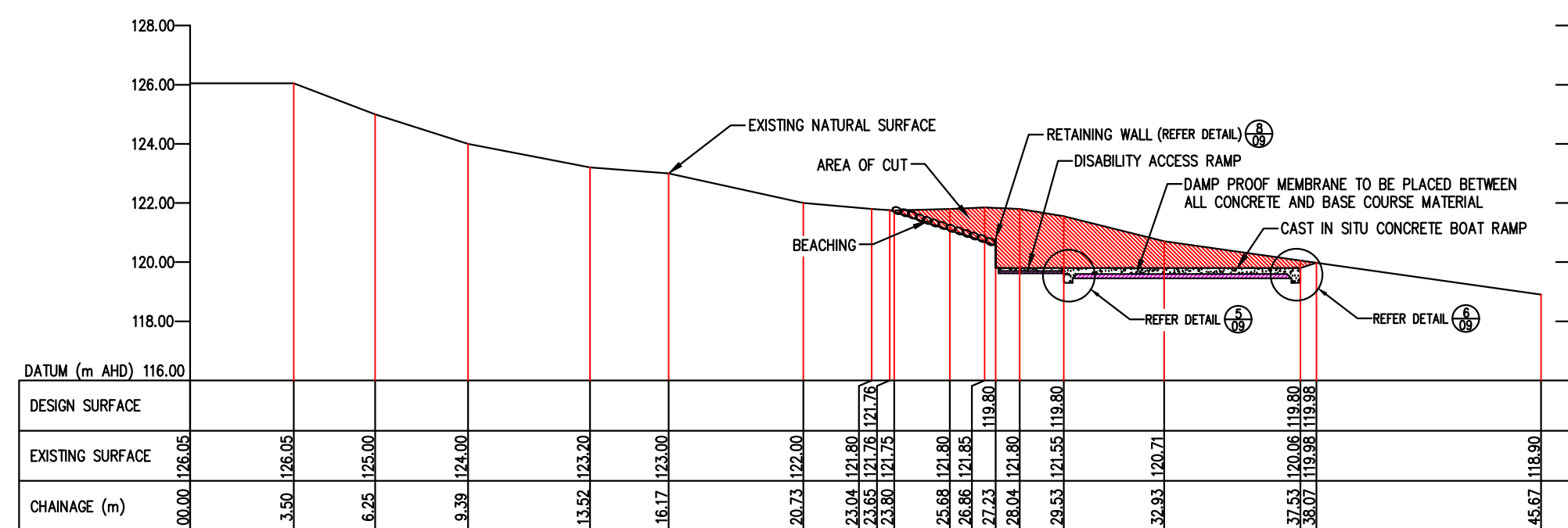
RICH RIVER IRRIGATION DEVELOPMENTS
UNIT 1, 164 OGILVIE AVENUE, ECHUCA 3564
Telephone (03) 5482 2564 Fax (03) 5482 1918

TITLE: DARLINGTON POINT BOAT RAMP
DESCRIPTION: RIVER CROSS-SECTIONS (1:200)

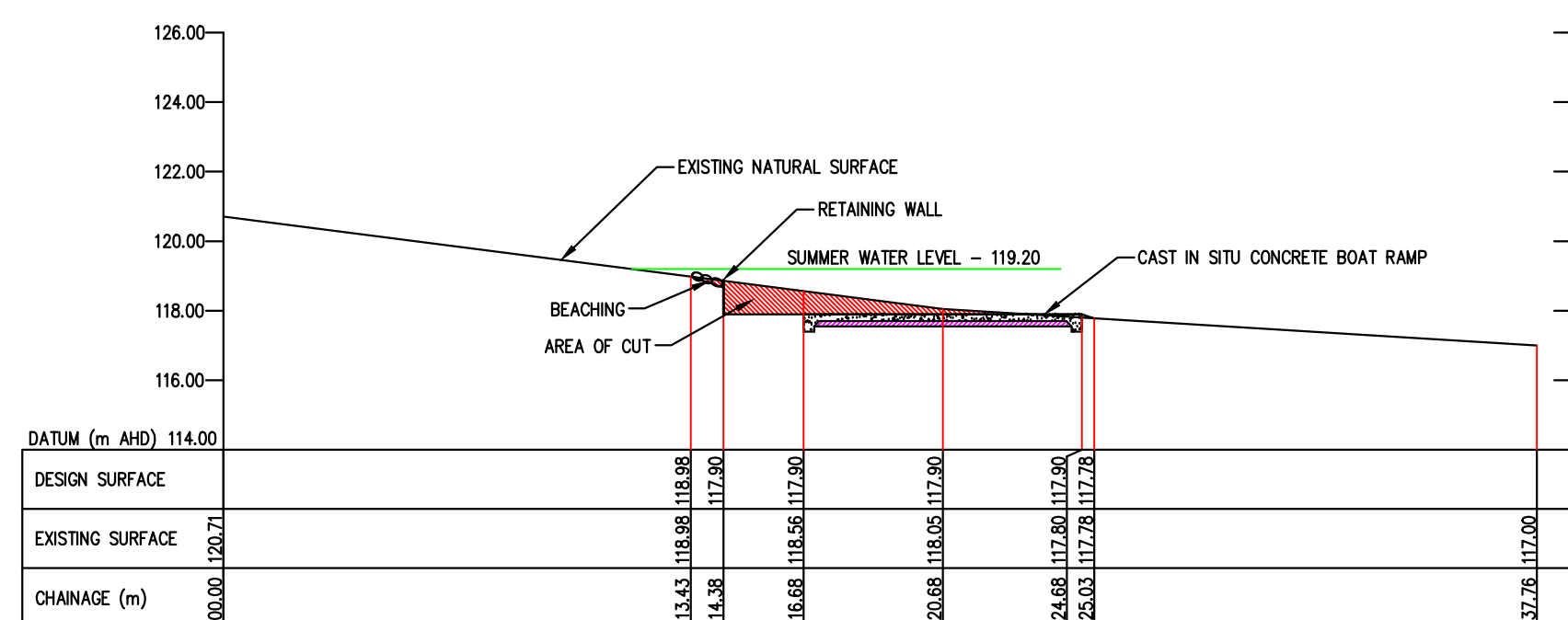
SIZE	SHEET NUMBER	DRAWING NUMBER	REVISION
A1	05 of 11	2016-107	3



RAMP CROSS-SECTION 1
SCALE 1:200 HORIZONTAL 1:200 VERTICAL
(Chainage 0.00 to Chainage 36.20)



RAMP CROSS-SECTION 2
SCALE 1:200 HORIZONTAL 1:200 VERTICAL
(Chainage 0.00 to Chainage 45.67)



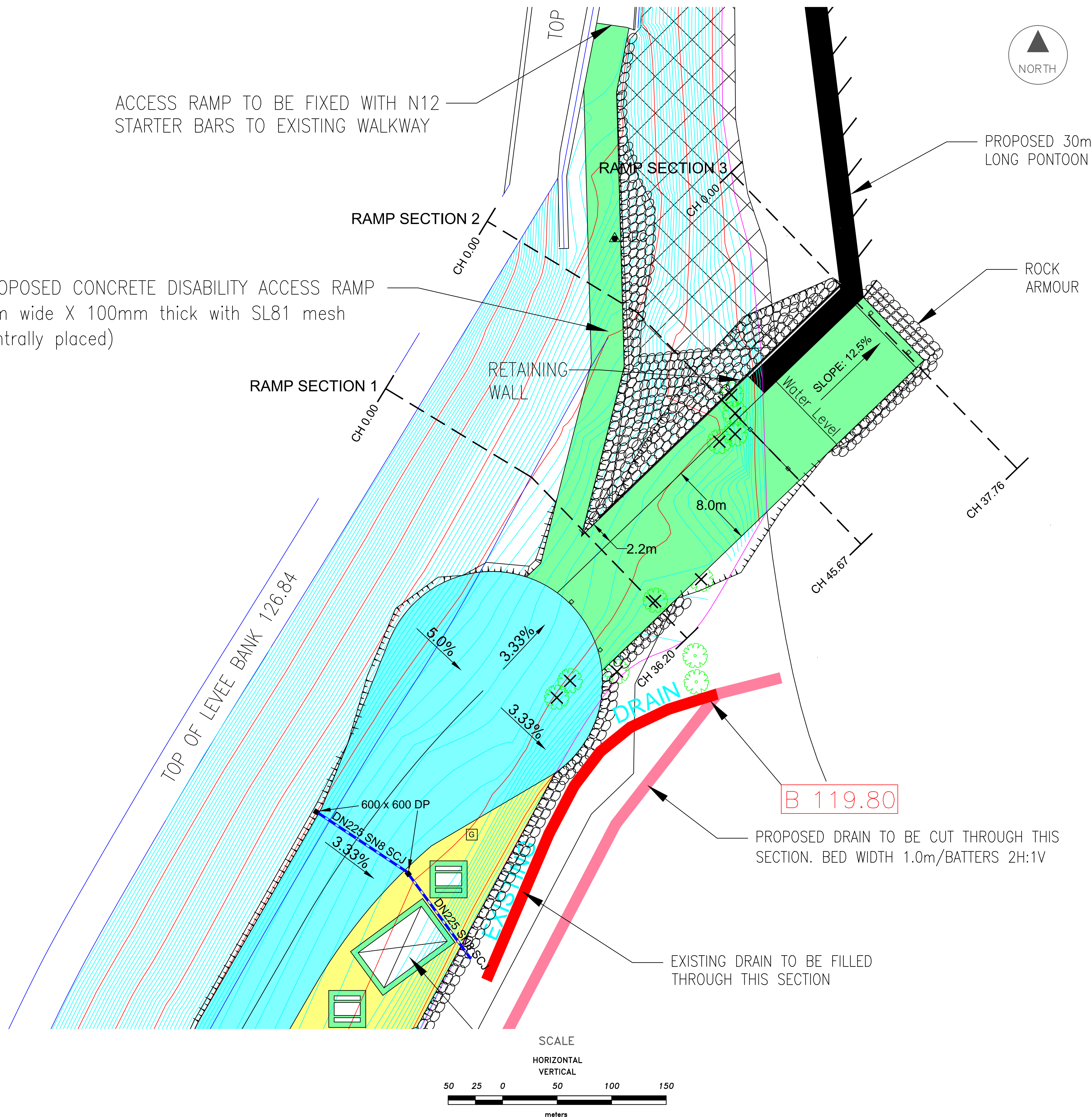
RAMP CROSS-SECTION 3
SCALE 1:200 HORIZONTAL 1:200 VERTICAL
(Chainage 0.00 to Chainage 37.76)

LEGEND

- CONCRETE
- BASECOURSE
- AREA OF CUT
- AREA OF FILL

ACCESS RAMP TO BE FIXED WITH N12 STARTER BARS TO EXISTING WALKWAY

PROPOSED CONCRETE DISABILITY ACCESS RAMP (3m wide X 100mm thick with SL81 mesh centrally placed)



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LEGEND

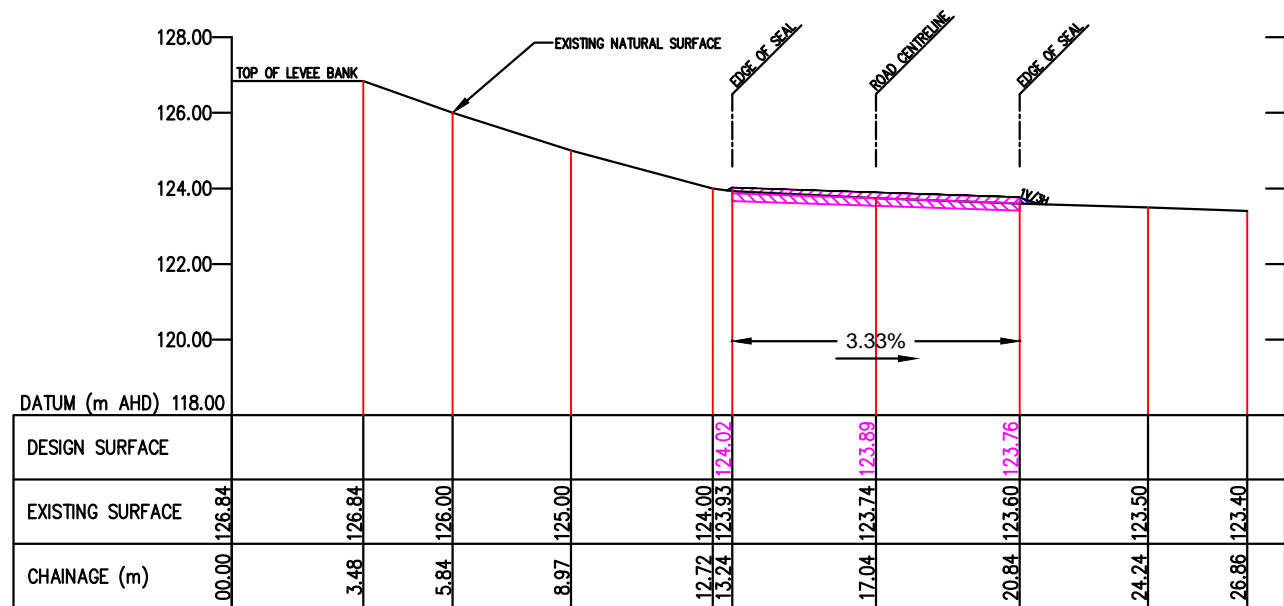
Asphalt Driveway	Concrete Driveway	Gravel Driveway	S.E.C. U/G Cable	Fire Hydrant	Proposed Culvert
Proposed K & C	Permanent Mark	Tree to be removed	Gas Main	Fire Plug	Proposed Picnic Table
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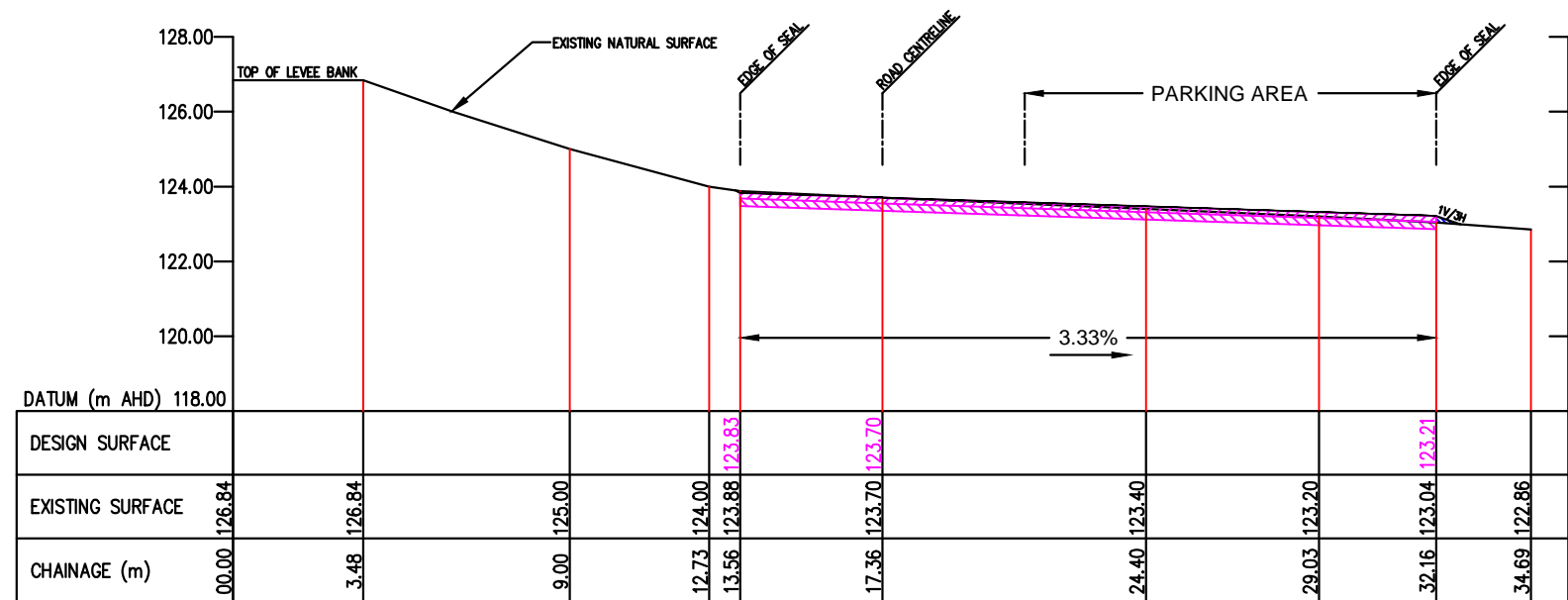
RICH RIVER IRRIGATION DEVELOPMENTS
UNIT 1, 164 OGILVIE AVENUE, ECHUCA 3564
Telephone (03) 5482 2564 Fax (03) 5482 1918

MURRUMBIDGE SHIRE COUNCIL / APEX CLUB PROPOSED DARLINGTON POINT BOAT RAMP RAMP CROSS - SECTIONS

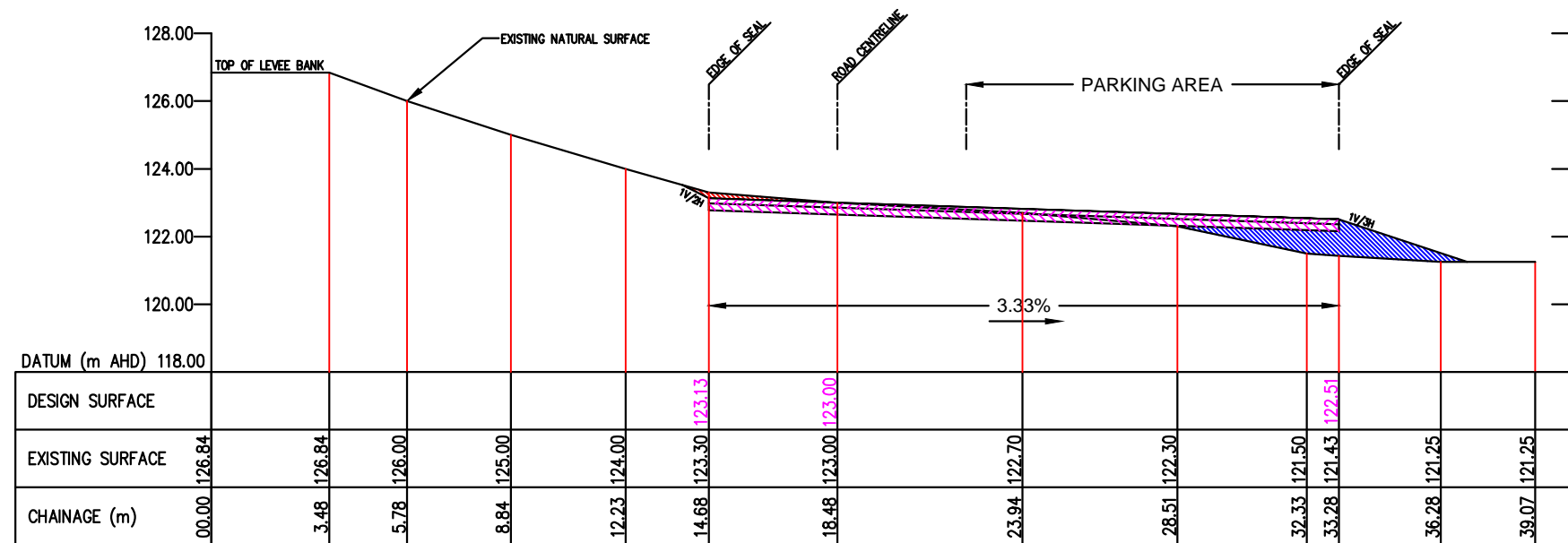
TITLE: DARLINGTON POINT BOAT RAMP	SIZE: A1	SHEET NUMBER: 06 of 11	DRAWING NUMBER: 2016-107	REVISION: 3
DESCRIPTION: RAMP CROSS-SECTIONS (1:200)				



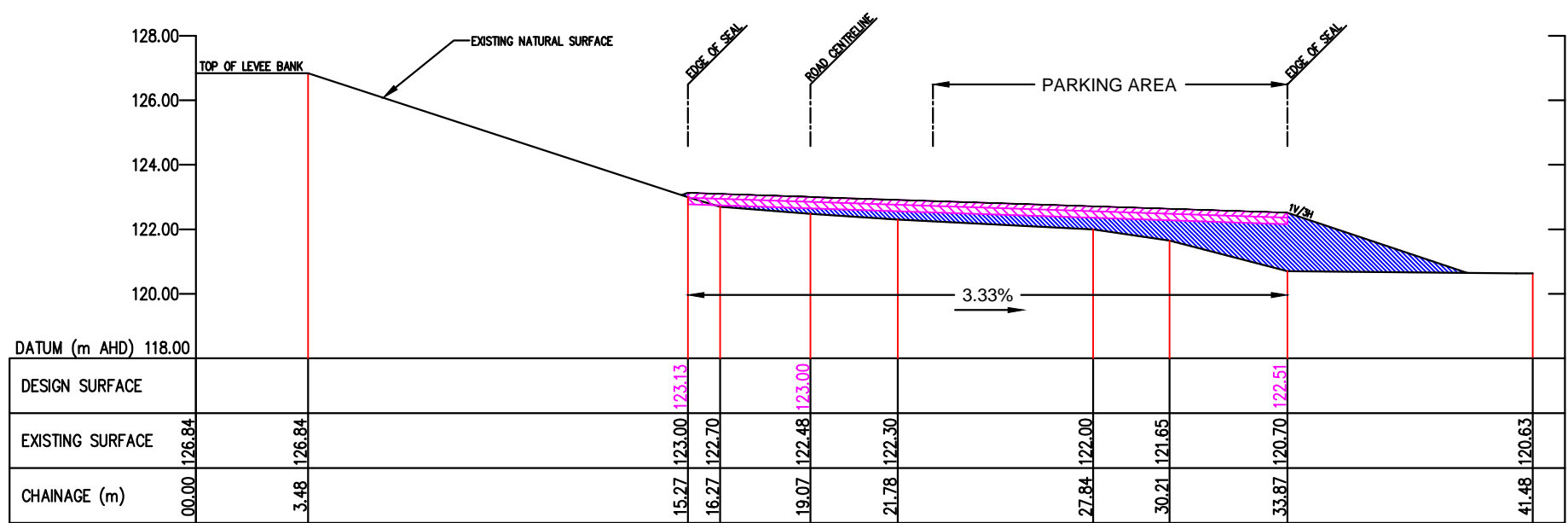
SEALED ROADWAY CROSS-SECTION A-A
SCALE 1:200 HORIZONTAL 1:200 VERTICAL



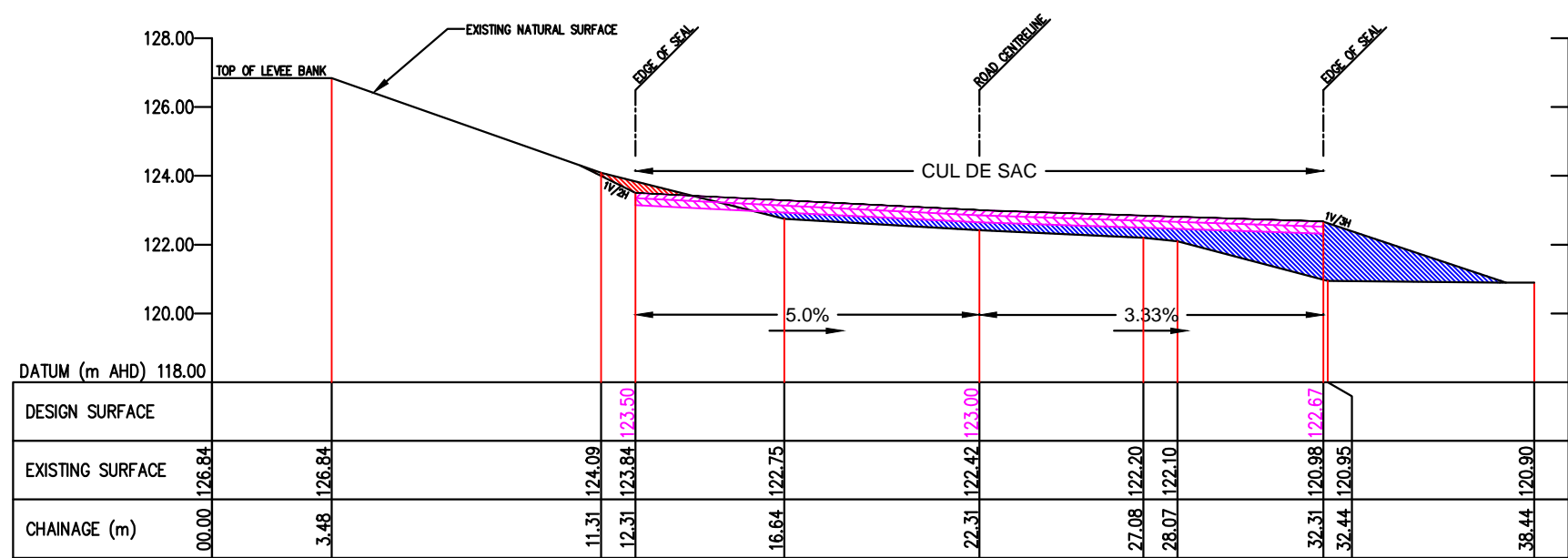
SEALED ROADWAY CROSS-SECTION B-B
SCALE 1:200 HORIZONTAL 1:200 VERTICAL



SEALED ROADWAY CROSS-SECTION C-C
SCALE 1:200 HORIZONTAL 1:200 VERTICAL



SEALED ROADWAY CROSS-SECTION D-D
SCALE 1:200 HORIZONTAL 1:200 VERTICAL



SEALED ROADWAY CROSS-SECTION E-E
SCALE 1:200 HORIZONTAL 1:200 VERTICAL

LEGEND

- BASECOURSE
- SUBBASE
- AREA OF CUT
- AREA OF FILL

Disclaimer

Notwithstanding any description contained in the plans or design specifications, the contractor shall be responsible for satisfying themselves as to the nature and extent of the specified works and the physical and legal conditions under which the works will be carried out, including site conditions, access, nature of material to be excavated, size and type of mechanical plant required and any like matters effecting the construction of the works.

LEGEND

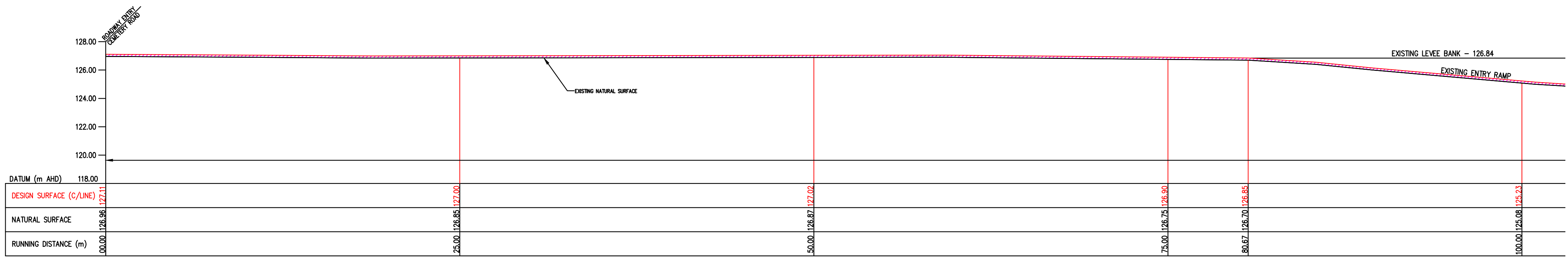
Asphalt Driveway	Concrete Driveway	Gravel Driveway	S.E.C. U/G Cable	Fire Hydrant	Proposed Culvert
Proposed K & C	Permanent Mark	Tree to be removed	Gas Main	Fire Plug	Proposed Picnic Table
Conduits	Telstra U/G Cable	Telstra Pole	Sewer Main	Valve	Proposed Shelter
Existing Drains	Water Main	Telstra Pit	Property Outlet	S.E.C. Pole	Survey Station
Existing Drain Pits	Proposed Drain Pits	Proposed Drains	Existing K & Ch	Existing Culvert	Rock Spalling



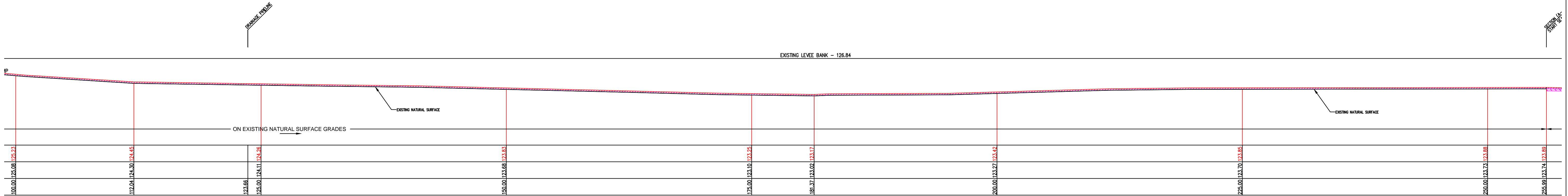
MURRUMBIDGEE SHIRE COUNCIL / APEX CLUB
PROPOSED DARLINGTON POINT BOAT RAMP
ROADWAY CROSS - SECTIONS

RICH RIVER IRRIGATION DEVELOPMENTS UNIT 1, 164 OGILVIE AVENUE, ECHUCA 3564 Telephone (03) 5482 2564 Fax (03) 5482 1918	TITLE: DARLINGTON POINT BOAT RAMP DESCRIPTION: ROADWAY CROSS-SECTIONS (1:200)	SIZE A1	SHEET NUMBER 07 of 11	DRAWING NUMBER 2016-107	REVISION 2
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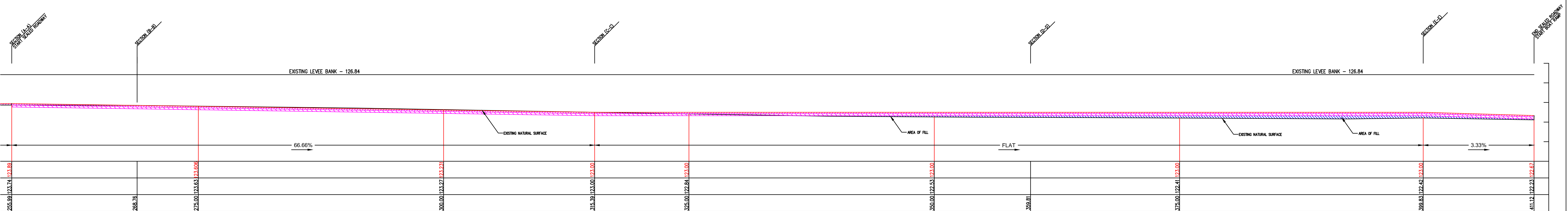
REV	DATE	REVISIONS
2	23/10/17	ISSUED FOR CONSTRUCTION
1	30/08/17	DRAFT FOR DISCUSSION



DESIGN ROAD LONGITUDINAL SECTION - (0-100)
SCALE 1:200 HORIZONTAL 1:200 VERTICAL
(LOOKING NORTH WEST)



DESIGN ROAD LONGITUDINAL SECTION - (100-255.99)
SCALE 1:200 HORIZONTAL 1:200 VERTICAL
(LOOKING NORTH WEST)



DESIGN ROAD LONGITUDINAL SECTION - (255.99-411.12)
SCALE 1:200 HORIZONTAL 1:200 VERTICAL
(LOOKING NORTH WEST)

LEGEND

- BASECOURSE
- SUBBASE
- AREA OF FILL

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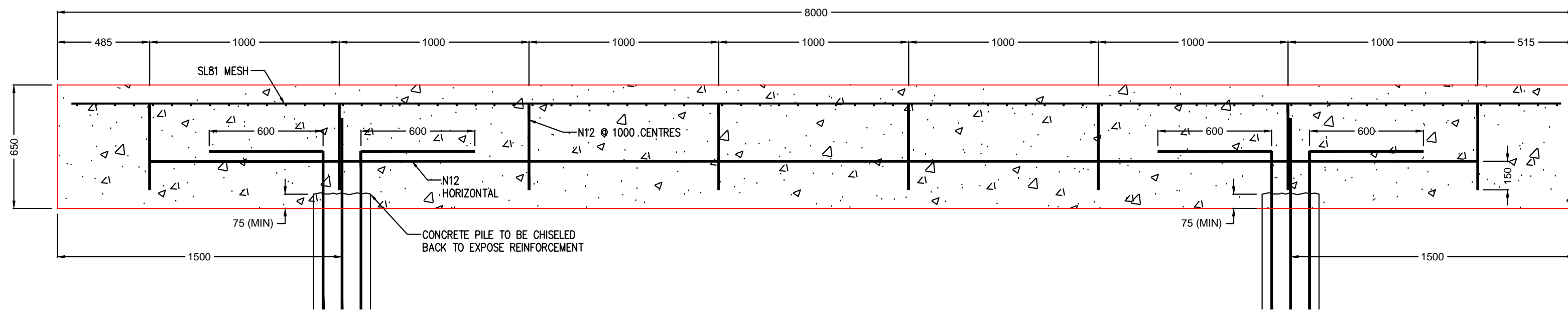
LEGEND

Asphalt Driveway	Concrete Driveway	Gravel Driveway	S.E.C. U/G Cable	Fire Hydrant	Proposed Culvert
Proposed K & C	Permanent Mark	Tree to be removed	Gas Main	Fire Plug	Proposed Picnic Table
Conduits	Telstra U/G Cable	Telstra Pole	Sewer Main	Valve	Proposed Shelter
Existing Drains	Water Main	Telstra Pit	Property Outlet	S.E.C. Pole	Survey Station
Existing Drain Pits	Proposed Drain Pits	Proposed Drains	Existing K & Ch	Existing Culvert	Rock Spalling



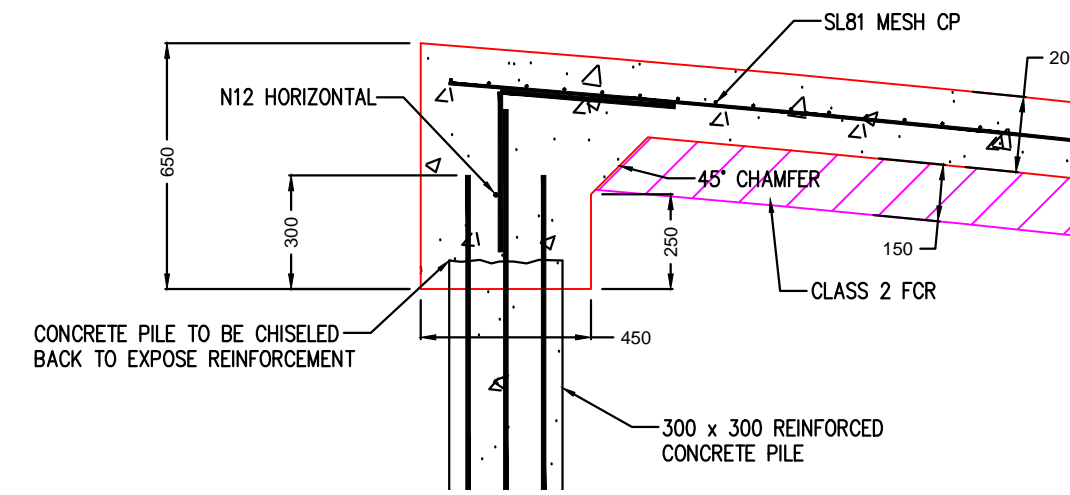
MURRUMBIDGEE SHIRE COUNCIL / APEX CLUB
PROPOSED DARLINGTON POINT BOAT RAMP
ROADWAY LONGITUDINAL - SECTION

2	23/10/17	ISSUED FOR CONSTRUCTION	SIZE	SHEET NUMBER	DRAWING NUMBER	REVISION
1	30/08/17	DRAFT FOR DISCUSSION	A1	08 of 11	2016-107	2
REV	DATE	REVISIONS				

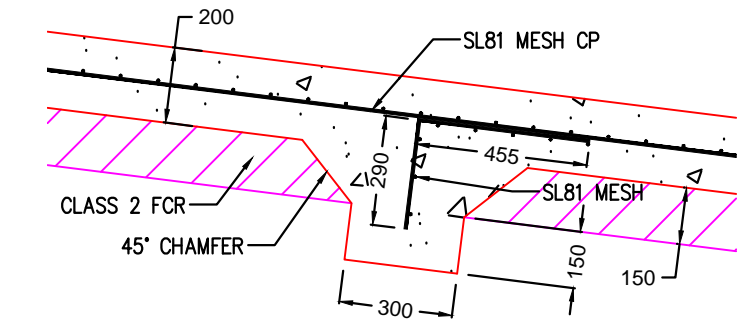


FRONT ELEVATION

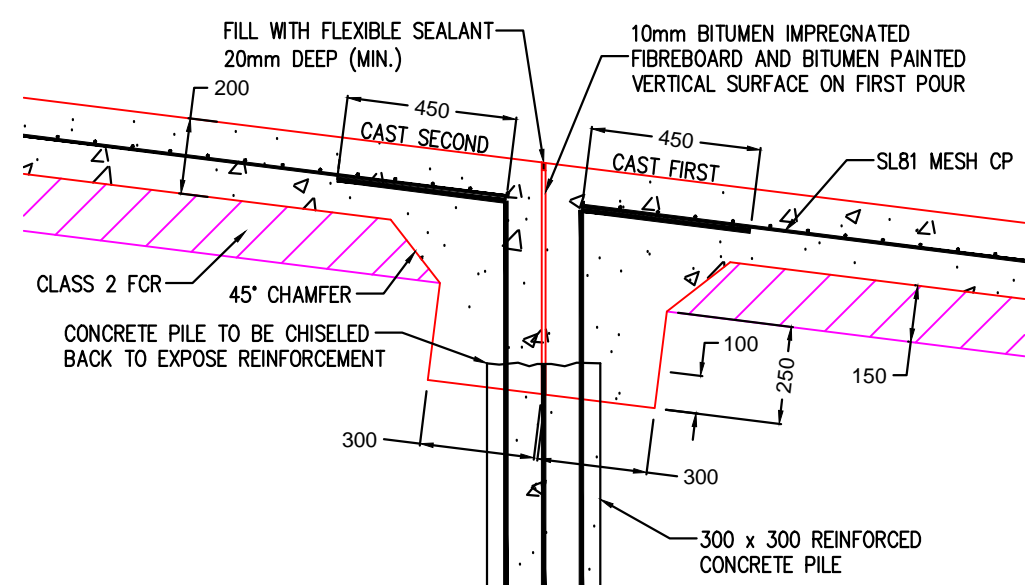
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1:20 (A1) 05



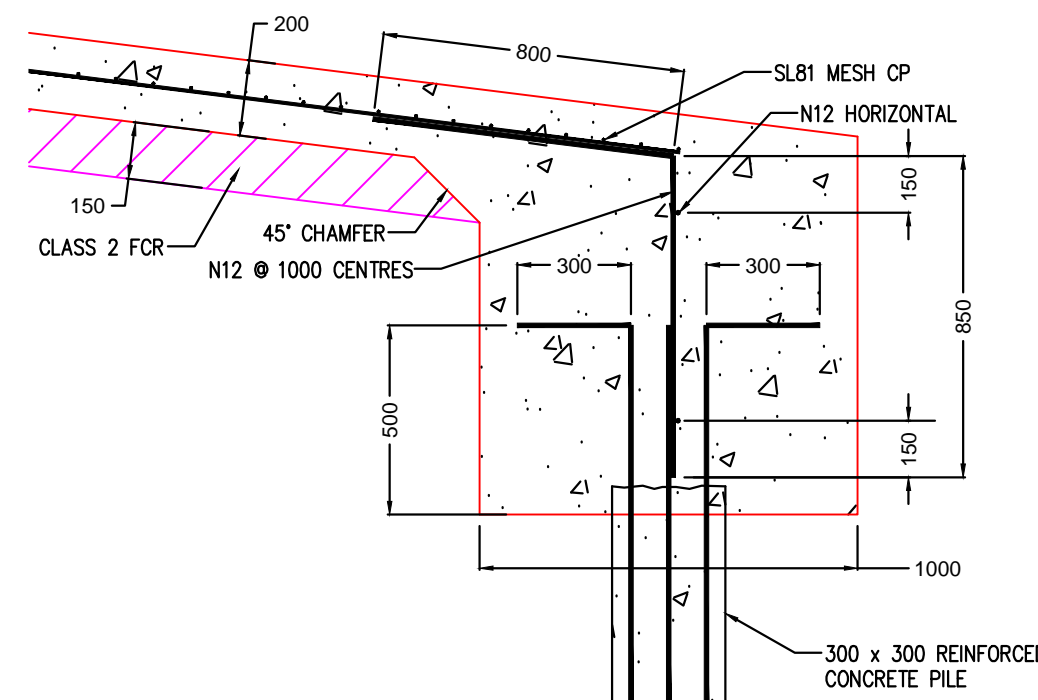
SIDE ELEVATION



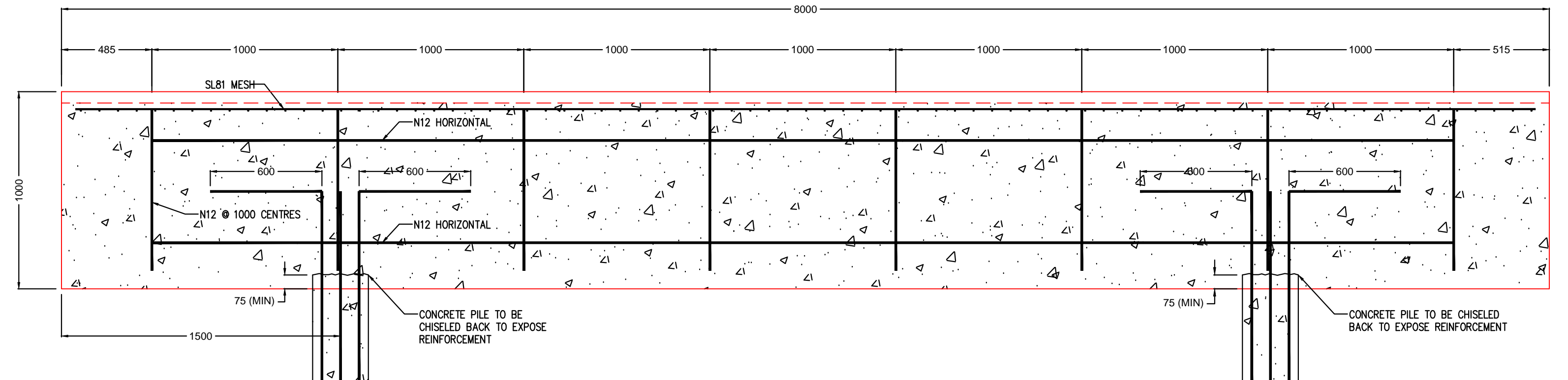
DETAIL 2
1:20 (A1) 05



DETAIL 3
1:20 (A1) 05

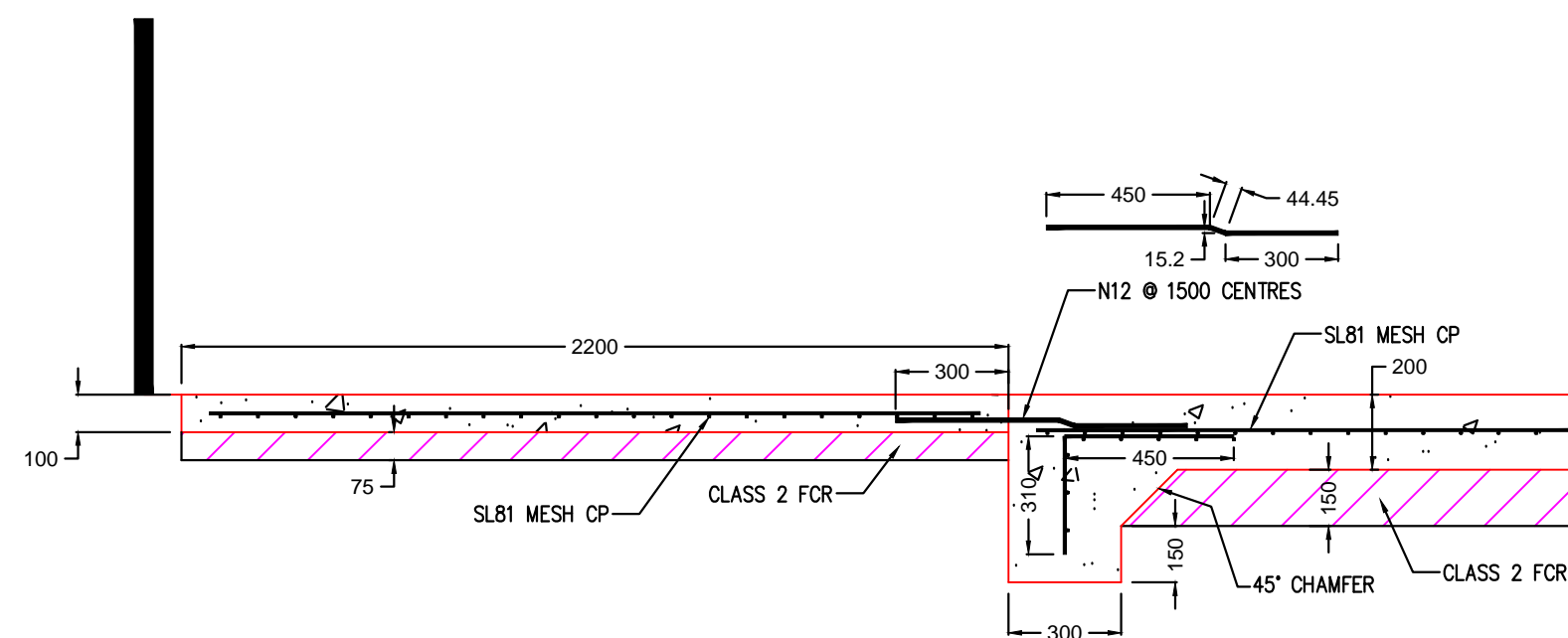


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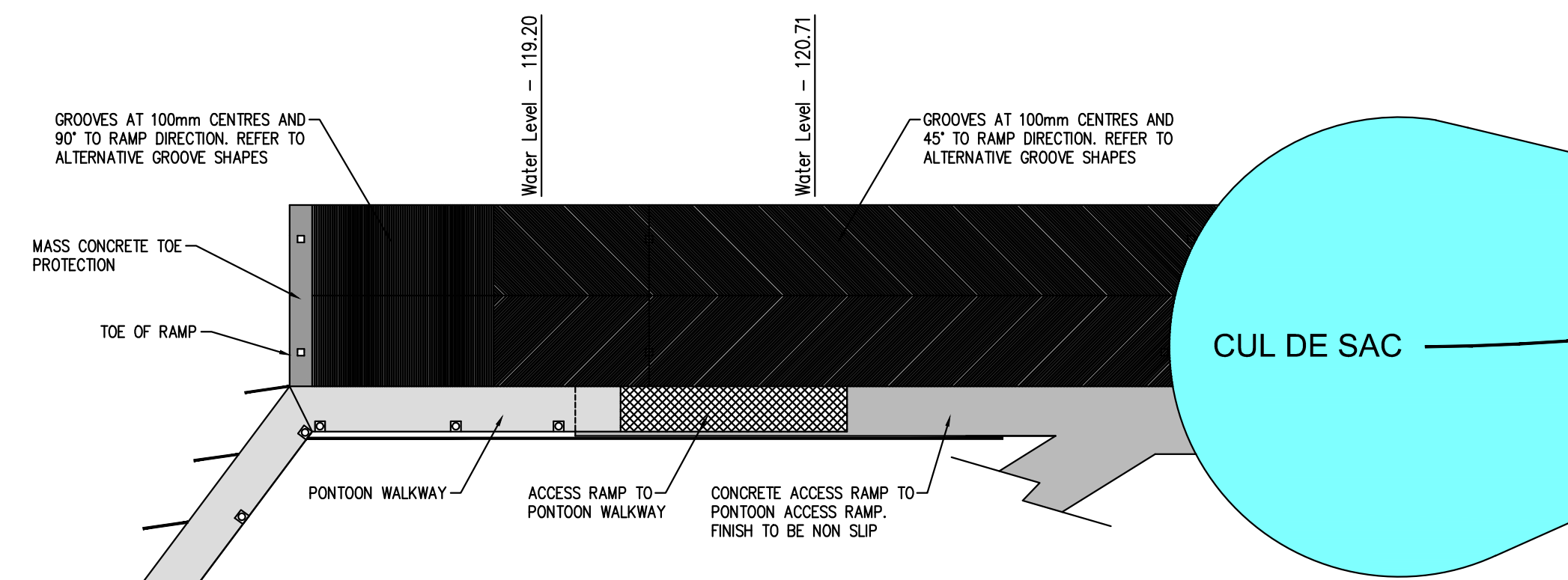


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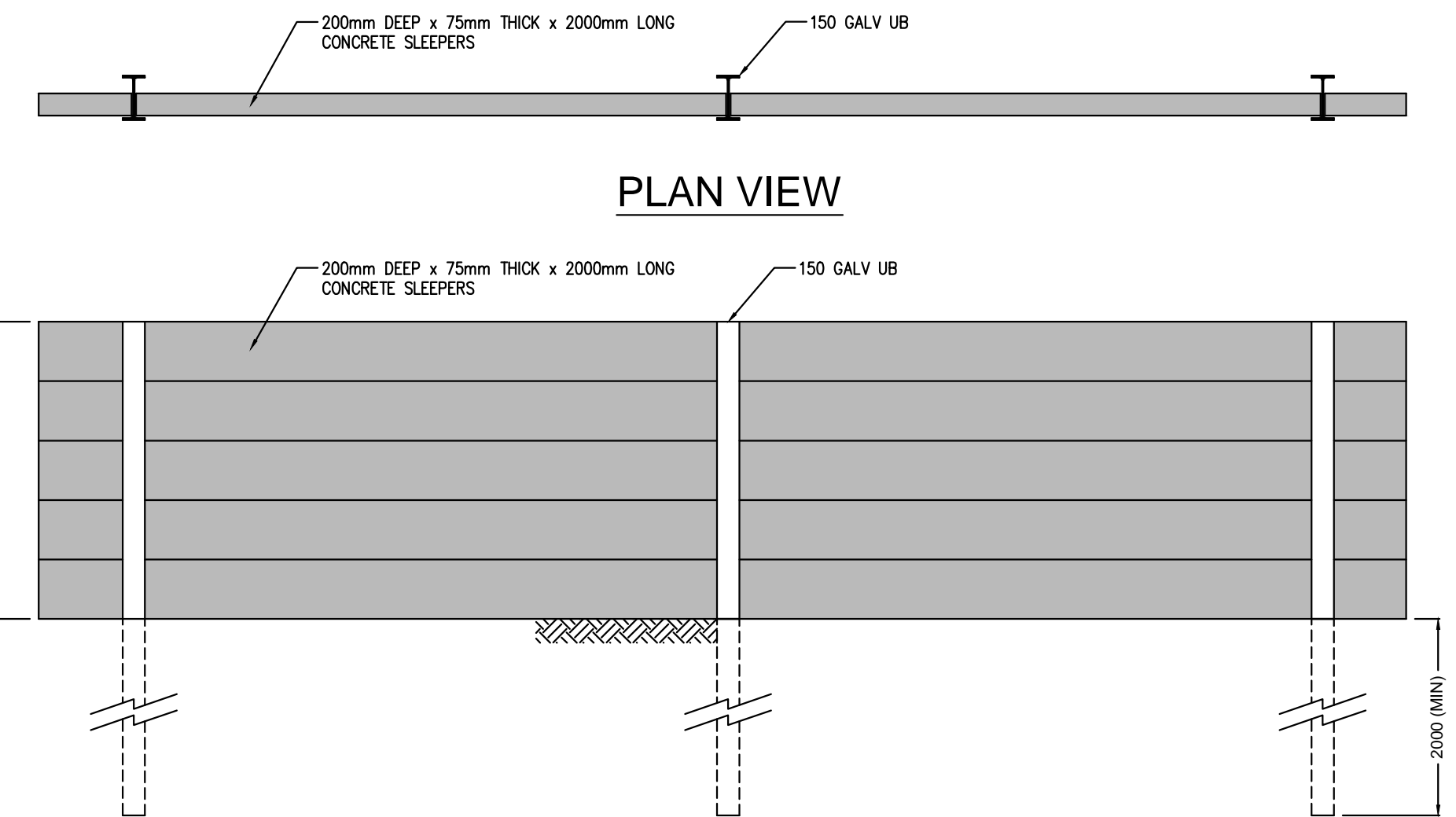
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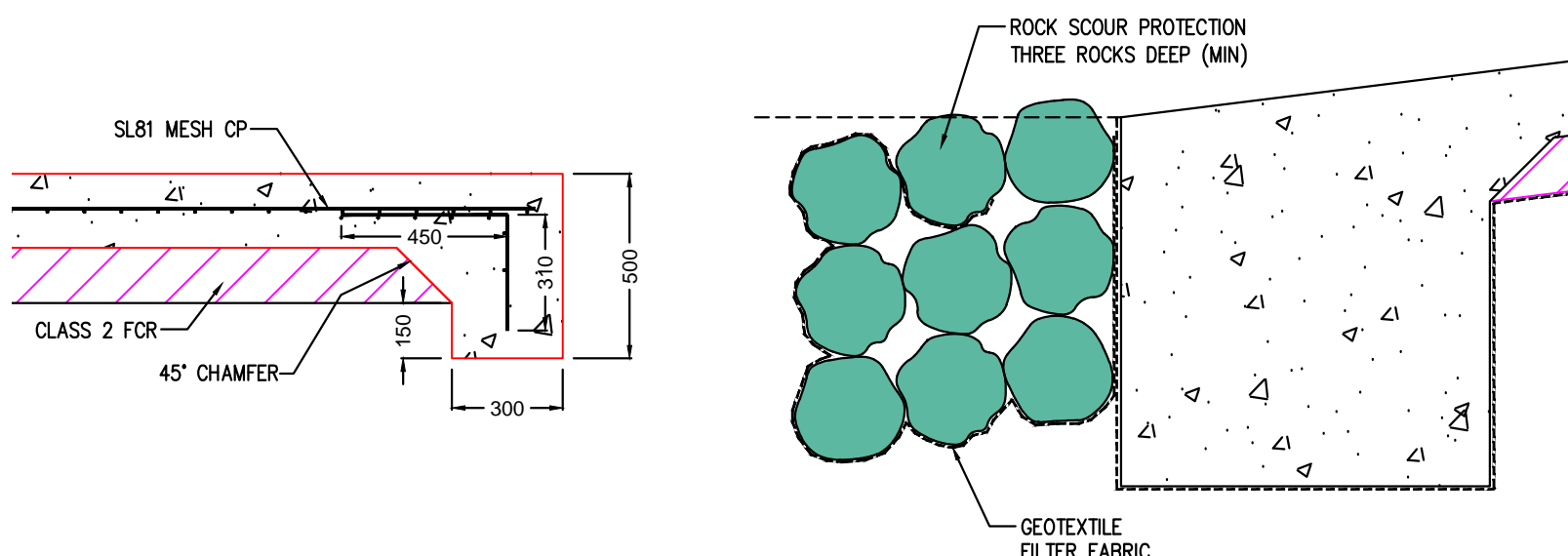
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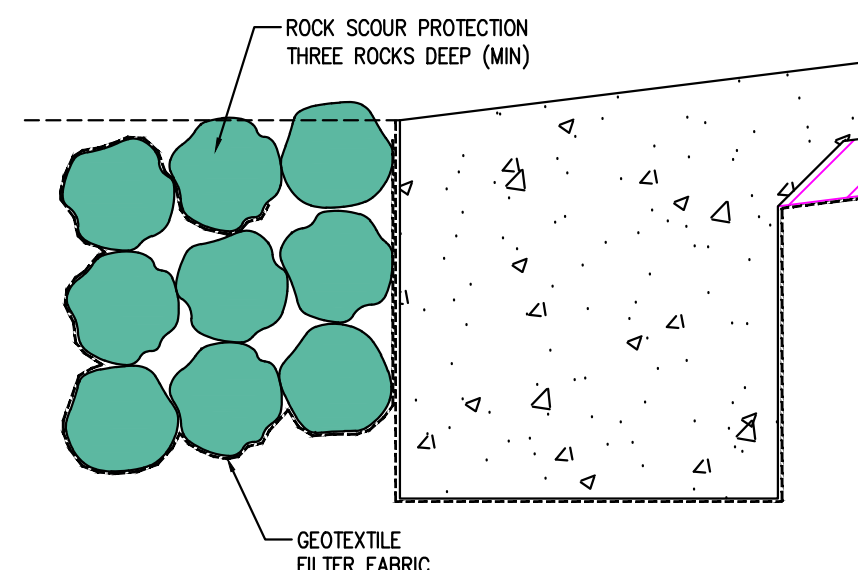
BOAT RAMP DETAIL PLAN
1:250 (A1)



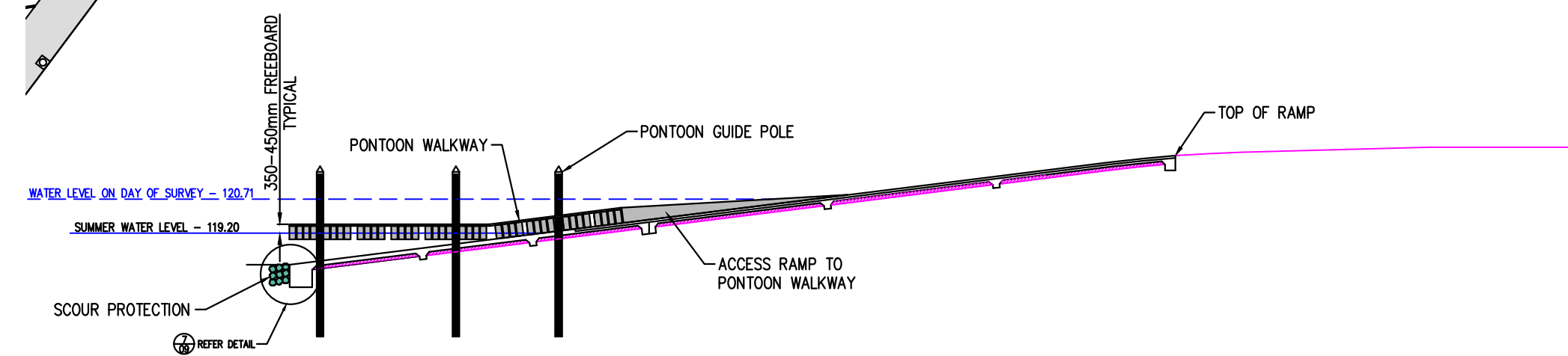
PLAN VIEW



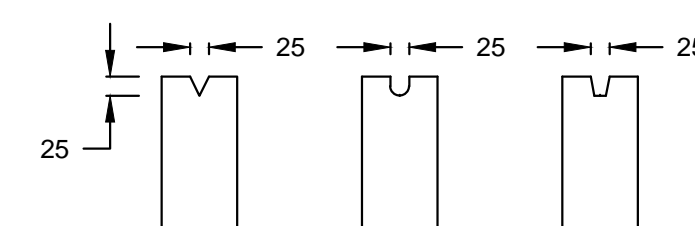
DETAIL 6
1:20 (A1) 06



DETAIL 7
1:20 (A1) 09



SECTION AT ON RAMP PONTON WALKWAY
1:250 (A1)



ALTERNATIVE GROOVE SHAPES

FRONT ELEVATION

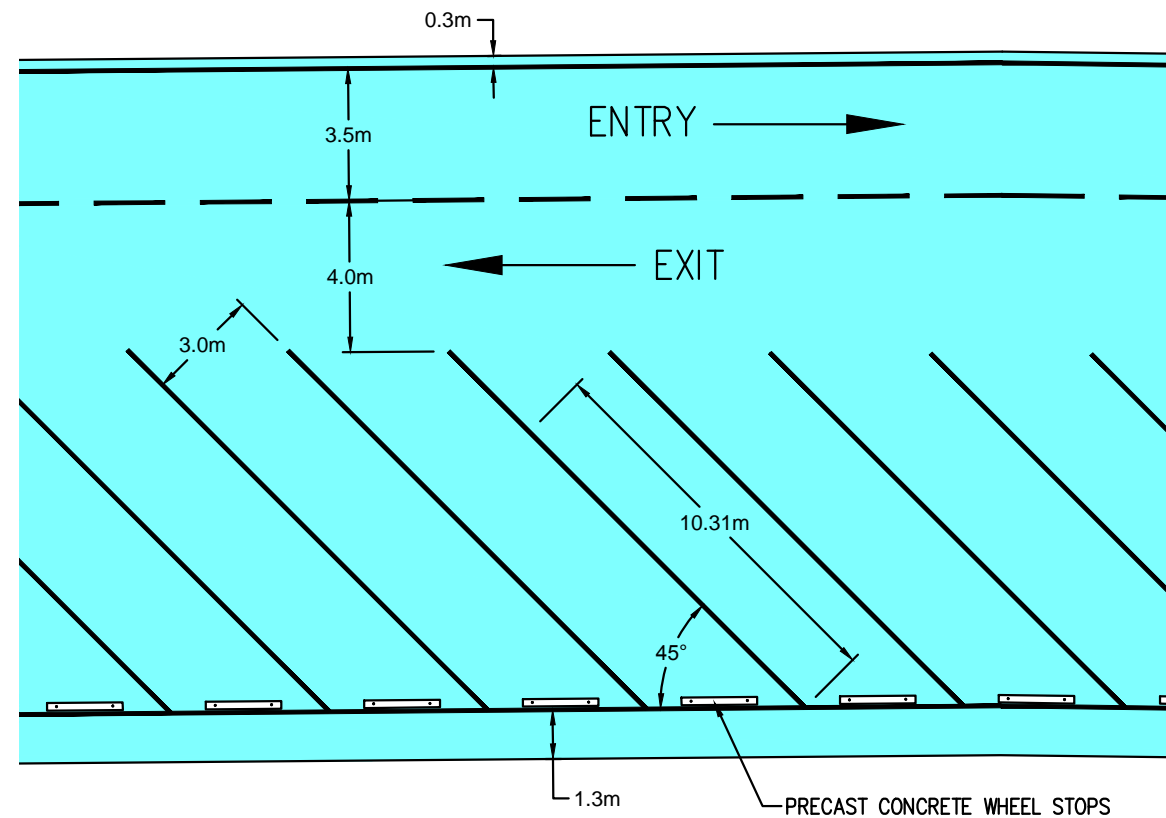
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REV	DATE	REVISIONS
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1	30/08/17	DRAFT FOR DISCUSSION

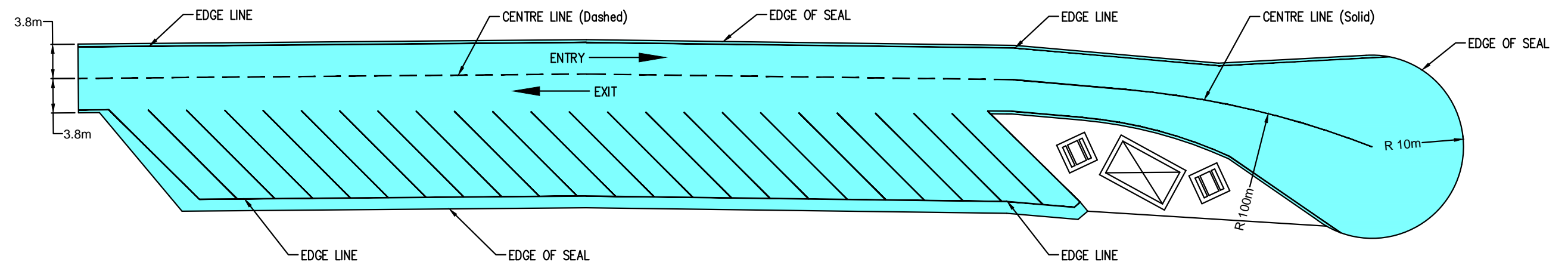
LEGEND	
Asphalt Driveway	Concrete Driveway
Proposed K & C	Permanent Mark
Conduits	Telstra U/G Cable
Existing Drains	Water Main
Existing Drain Pits	Proposed Drain Pits
Gravel Driveway	PM
Tree to be removed	Telstra Pole
S.E.C. U/G Cable	Telstra Pit
Gas Main	Property Outlet
Sewer Main	Existing K & Ch
Fire Hydrant	S.E.C. Pole
Fire Plug	Existing Culvert
Valve	Rock Spalling
Proposed Culvert	Proposed Picnic Table
Proposed Shelter	Proposed Shelter
Survey Station	Proposed Shelter
Rock Spalling	Proposed Shelter



MURRUMBIDGE SHIRE COUNCIL / APEX CLUB	
PROPOSED DARLINGTON POINT BOAT RAMP	
DESIGN DETAILS	
RICH RIVER IRRIGATION DEVELOPMENTS UNIT 1, 164 OGILVIE AVENUE, ECHUCA 3564 Telephone (03) 5482 2564 Fax (03) 5482 1918	TITLE: DARLINGTON POINT BOAT RAMP DESCRIPTION: DESIGN DETAILS
SIZE A1	SHEET NUMBER 09 of 11
DRAWING NUMBER 2016-107	REVISION 2



PARKING BAY DIMENSIONS
1: 200 (A3)



PAVEMENT LINEMARKING PLAN
1: 500 (A3)

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