BROOKLYN SHARED PATH & BOARDWALK

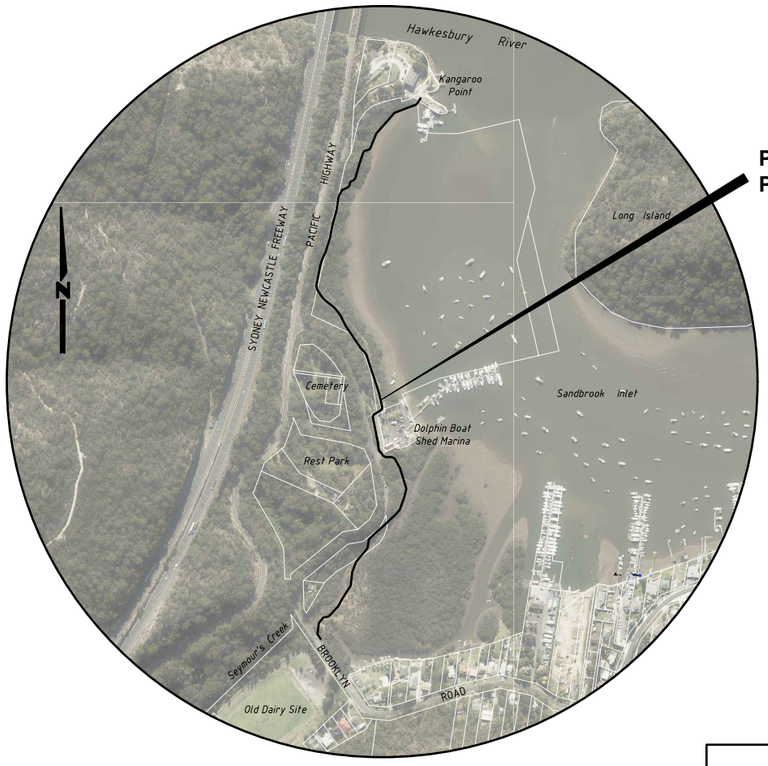
SEYMOURS CREEK TO KANGAROO POINT

LEGEND

- EXISTING KERB & GUTTER.
- EXISTING EDGE OF BITUMEN.
- EXISTING FENCE.
- EXISTING CONCRETE PATH EDGE.
- EXIST 375mmø RCP — EXISTING STORMWATER PIPE.
- PP — EXISTING POWER POLE.
- EXISTING / PROPOSED SIGN.
- EXISTING TREE.
- EXISTING TREE TO BE REMOVED.
- STN 1 RL 100.000 — SURVEY TRAVERSE STATION.
- PM 12345 RL123.456 — PERMANENT SURVEY MARK.
- DH&W, GIP — SURVEY REFERENCE MARKS - DRILL HOLE & WING/GALVANISED IRON PIPE.
- EXISTING OPTUS PIT.
- SV — EXISTING WATER STOP VALVE.
- HYD — EXISTING FIRE HYDRANT.
- TP — EXISTING TELSTRA PIT / CABLE MARKER.
- T — EXISTING U/G TELSTRA CABLES.
- O — EXISTING U/G OPTUS CABLES.
- S — EXISTING U/G SEWER MAIN.
- EXISTING OVERHEAD ELECTRICAL CABLES.
- W — EXISTING WATER MAIN.
- EXISTING LINE MARKING.
- PROPOSED LINE MARKING.
- 4 — DESIGN SETOUT POINT & NUMBER.
- 25 — TREE LABEL (REFER TO SHEETS Nos.28 TO 31 FOR DETAILS)
- EXTENT OF RAISED BOARDWALK (FIBRE REINFORCED PLASTIC - COLOUR TO MATCH CONCRETE PATH).
- EXTENT OF NEW FOOTPATH CONSTRUCTION. ALL PATHS N25 CONCRETE (REFER TO SHEET No.3 FOR DETAILS).

DRAWING SCHEDULE

SHEET No.	TITLE	ISSUE
1	DRAWING SCHEDULE, LOCALITY PLAN & LEGEND.	2
2	PROJECT NOTES.	2
3	BOARDWALK & SHARED PATHWAY TYPICAL SECTIONS.	2
4	CONCRETE PATH JOINT DETAILS.	2
5	OVERALL LAYOUT PLAN.	2
6	CONTROL LINE 1 SETOUT DETAILS - SHEET 1 OF 2	2
7	CONTROL LINE 1 SETOUT DETAILS - SHEET 2 OF 2	2
8	GENERAL WORKS & SERVICES PLAN - SHEET 1 OF 8.	2
9	GENERAL WORKS & SERVICES PLAN - SHEET 2 OF 8.	2
10	GENERAL WORKS & SERVICES PLAN - SHEET 3 OF 8.	2
11	GENERAL WORKS & SERVICES PLAN - SHEET 4 OF 8.	2
12	GENERAL WORKS & SERVICES PLAN - SHEET 5 OF 8.	2
13	GENERAL WORKS & SERVICES PLAN - SHEET 6 OF 8.	2
14	GENERAL WORKS & SERVICES PLAN - SHEET 7 OF 8.	2
15	GENERAL WORKS & SERVICES PLAN - SHEET 8 OF 8.	2
16	CL1 CROSS SECTIONS - CH5.000 TO CH110.000	2
17	CL1 CROSS SECTIONS - CH120.000 TO CH230.000	2
18	CL1 CROSS SECTIONS - CH240.000 TO CH350.000	2
19	CL1 CROSS SECTIONS - CH360.000 TO CH423.484	2
20	CL1 CROSS SECTIONS - CH430.000 TO CH500.000	2
21	CL1 CROSS SECTIONS - CH508.356 TO CH575.976	2
22	CL1 CROSS SECTIONS - CH580.000 TO CH643.024	2
23	CL1 CROSS SECTIONS - CH650.000 TO CH740.000	2
24	CL1 CROSS SECTIONS - CH750.000 TO CH807.179	2
25	CL1 CROSS SECTIONS - CH810.000 TO CH900.000	2
26	CL1 CROSS SECTIONS - CH910.000 TO CH1000.000	2
27	TREE SCHEDULE - SHEET 1 OF 4	2
28	TREE SCHEDULE - SHEET 2 OF 4	2
29	TREE SCHEDULE - SHEET 3 OF 4	2
30	TREE SCHEDULE - SHEET 4 OF 4	2



LOCALITY PLAN

NOT TO SCALE

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NATURAL RESOURCES BRANCH
Asset Custodian Officer
Name: M. HOOD Telephone: 9847 6008
Accepted as complying with the general intent of the design brief
Signed: Date:

TRAFFIC & ROAD SAFETY BRANCH
Senior Traffic Engineer
Name: R. ZARZYCKI Telephone: 9847 6844
Accepted as complying with the general intent of the design brief
Signed: Date:

ASSET MANAGEMENT & MAINTENANCE BRANCH
Senior Asset Engineer
Name: A. BOYD Telephone: 9847 6672
Accepted as complying with the general intent of the design brief
Signed: Date:

Hornsby Shire Council Design & Construction Branch
TELEPHONE: (02) 9847 6666
FACSIMILE: (02) 9847 6999

Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer	S. COMISH
Design Checked-Design Team Leader	Signed:
Drawn	S. COMISH
Drawing Checked	Signed:
Surveyor	M. LAWTON
NA Field Book / NA Level Book / AHD Datum	
Project Identifier\-\CAD File Name	H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg
TRIM Document Number	XXX

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

Bar Scales
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HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

DRAWING SCHEDULE, LOCALITY PLAN & LEGEND

Project Number: 100277
Sheet 1 of 30 — Issue 2
HSC Drawing Number: 29.31

GENERAL NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS & SPECIFICATIONS OF HORNSBY SHIRE COUNCIL.

2. LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS & NOT FROM SURVEY PEGS.

3. PROVIDE TRAFFIC MANAGEMENT, LINE MARKING & SIGNAGE IN ACCORDANCE WITH THE TfNSW "TRAFFIC CONTROL AT WORK SITES" TECHNICAL MANUAL & AS1742.3 REQUIREMENTS.

4. SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED FROM THE RELEVANT AUTHORITIES VIA A "DIAL BEFORE YOU DIG" ENQUIRY. THE LOCATION OF SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES & FIELD INVESTIGATIONS & ARE TO BE VERIFIED PRIOR TO CONSTRUCTION.

5. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE LANDCOM PUBLICATION:- "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" Vol. 1, 4th EDITION.

6. ALL DISTURBED AREAS OF THE SITE ARE TO BE REINSTATED WITH EXISTING OR MATCHING MATERIALS UNLESS NOTED OTHERWISE AT THE COMPLETION OF THE WORKS.

7. WHERE WORKS ARE ADJACENT TO EXISTING STRUCTURES UNDERTAKE A DILAPIDATION SURVEY OF EXISTING ADJACENT STRUCTURES BEFORE COMMENCEMENT OF ANY WORKS.

8. IF SET-OUT IS REQUIRED BY HORNSBY SHIRE COUNCIL DESIGN & CONSTRUCTION BRANCH SURVEYOR. NOTIFY ENGINEERING SURVEYOR A MINIMUM OF 24 HOURS IN ADVANCE.

9. WHERE PAVEMENT RESURFACING IS UNDERTAKEN ENSURE ALL BLUE HYDRANT MARKER RRPM'S ARE REINSTATED AT THE COMPLETION OF WORKS.

10. REFER TO ARTERRA DESIGN PTY LTD ABORIST'S REPORT DATED 18th FEBRUARY 2022 FOR DETAILED TREE LISTING & HEALTH OF EXISTING VEGETATION. TRIM DOCUMENT # DXXXXX.

11. ALL EXCAVATION WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH THE ACID SULPHATE MANAGEMENT PLAN (ASSMP) FOR THIS PROJECT.

ACCESS & SAFETY NOTES:

1. THE CONSTRUCTOR SHALL COMPLY WITH ALL STATUTORY & INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.

2. THE CONSTRUCTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON & APPROVED BY COUNCIL/REGULATORY AUTHORITY. WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.

3. THE CONSTRUCTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS/RESIDENCES ADJACENT TO THE WORKS IS NOT DISRUPTED.

4. WHERE NECESSARY THE CONSTRUCTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.

5. THE CONSTRUCTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCIL REQUIREMENTS.

LINE MARKING NOTES

1. SIGNS & LINE MARKING TO BE INSTALLED IN ACCORDANCE WITH AS1742.9 -MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PART 9 BICYCLE FACILITIES, PART 2 TRAFFIC CONTROL DEVICES FOR GENERAL USE & THE REQUIREMENTS OF THE RTA NSW BICYCLE GUIDELINES MANUAL.

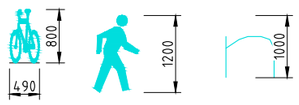
2. WHERE POSSIBLE EXISTING SIGNAGE IS TO BE CLEANED / RELOCATED OR REUSED TO SUIT NEW WORK.

3. TEMPORARY 'CHANGED TRAFFIC CONDITIONS AHEAD' (T1-23) SIGNS TO BE INSTALLED ON ALL APPROACHES 100m FROM LIMIT OF WORKS (TYPICAL) AT THE COMMENCEMENT OF WORKS & UNTIL 6 MONTHS AFTER COMPLETION.

4. ALL NEW LINE MARKING TO WHITE THERMOPLASTIC PAINT UNLESS NOTED OTHERWISE.

5. REMOVE REDUNDANT LINE MARKING.

6. LINE MARKING SHALL BE SPOTTED OUT & APPROVED PRIOR TO APPLICATION.



PS-3 PS-4 PA-1

TREE PROTECTION MEASURES:

1. ALL WORKS WITHIN THE NOMINAL TREE ROOT ZONE OF ANY TREE/S TO BE RETAINED SHOULD NOT REDUCE THE USEFUL LIFE EXPECTANCY OF THE TREE/S & BE CARRIED OUT UNDER THE SUPERVISION OF AN 'AQF LEVEL 5 ARBORIST'.

   TREE PROTECTION ZONES (TPZ)

TREE SIZE	TPZ RADIUS
TREES WITH A DIAMETER AT BREAST HEIGHT GREATER THAN 800mm	10m
TREES WITH A DIAMETER AT BREAST HEIGHT BETWEEN 400mm & 800mm	8m
TREES WITH A DIAMETER AT BREAST HEIGHT LESS THAN 400mm	4m

   SOIL LEVELS WITHIN THE TREE ROOT ZONE OF TREES TO BE RETAINED SHOULD REMAIN AT EXISTING GRADE & UNDISTURBED

   EXCAVATION WITHIN THE TREE ROOT ZONE OF TREES TO BE RETAINED SHOULD BE CARRIED OUT BY HAND EXCAVATION ONLY. HAND EXCAVATION SHOULD BE CARRIED OUT UNDER THE SUPERVISION OF A QUALIFIED ARBORIST IN SUCH A MANNER THAT IS NON-INJURIOUS TO ANY ROOTS REVEALED.

   NO TREE ROOT GREATER THAN 40mm DIAMETER LOCATED WITHIN THE TPZ OF ANY TREE TO BE RETAINED SHOULD BE SEVERED OR INJURED IN THE PROCESS OF ANY WORKS.

   TREE ROOTS LESS THAN <40mm IN DIAMETER REQUIRED TO BE SEVERED SHALL BE CUT CLEANLY BY HAND BY A QUALIFIED & EXPERIENCED ARBORIST OR HORTICULTURIST WITH MINIMUM QUALIFICATIONS OF HORTICULTURAL CERTIFICATE OR TREE SURGERY CERTIFICATE (AQF 3).

2. ALL PRUNING SHALL BE UNDERTAKEN AS SPECIFIED IN THE AUSTRALIAN STANDARD 'PRUNING OF AMENITY TREES' (AS 4373-2009).

3. THE FILLING OR STOCKPILING OF BUILDING MATERIALS, PARKING OF VEHICLES OR PLANT, THE USE OF MACHINERY OTHER THAN HAND HELD, DISPOSAL OF CEMENT SLURRY, WASTE WATER OR OTHER CONTAINMENTS MUST REMAIN OUTSIDE THE TREE PROTECTION ZONE OF ANY TREE TO BE RETAINED.

4. ANY MECHANICAL DAMAGE TO TREES OR CHEMICAL SPILLS WITHIN THE TPZ MUST BE REPORTED TO THE PROJECT SUPERVISOR/MANAGER.

5. BARRIER MESH FENCING SHALL BE ERECTED AROUND RETAINED TREES WHERE PRACTICABLE TO ENSURE THEY ARE PROTECTED FROM MACHINERY MISTAKENLY TRAVERSING BETWEEN TREES, THIS CAN BE IDENTIFIED/ DIRECTED BY PROJECT ARBORIST.

ENVIRONMENTAL NOTES:

1. VEGETATION ALONG THE ROUTE HAS BEEN MAPPED AS INCLUDING PEPPERMINT-ANGOPHORA WOODLAND, MANGROVES & COASTAL SALTMARSH. MANGROVES ARE PROTECTED UNDER THE STATE ENVIRONMENTAL PLANNING POLICY (RESILIENCE & HAZARDS) 2021 & COASTAL SALTMARSH IS PROTECTED UNDER THE BIODIVERSITY CONSERVATION ACT 2016. CERTAIN APPROVALS & PERMITS ARE REQUIRED TO WORK WITHIN, & IMPACT ON, THESE VEGETATION COMMUNITIES.

SEDIMENT & EROSION CONTROL NOTES:

1. NO WORK SHALL BE UNDERTAKEN UNTIL ALL SEDIMENT & EROSION CONTROL MEASURES ARE IN PLACE & HAVE BEEN APPROVED BY THE CONSTRUCTION ENGINEER.

2. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED BY THE SITE SUPERVISOR ON A DAILY BASIS & SIGNED OFF ON THE BACK OF THE DAY SHEET. A CHECKLIST SHALL BE HANDED OVER TO THE PROJECT MANAGER AT THE END OF EACH DAY. STRUCTURES WILL ALSO BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE & ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SOIL STOCKPILE SITE. THE CONSTRUCTION ENGINEER MUST INFORM ALL CONTRACTORS & SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION CONTROL PLAN.

3. SELECTIVE CLEARING OF VEGETATION TO BE RESTRICTED TO NOMINATED AREAS WITH CLEARED VEGETATION WINDROWED ON THE CONTOUR.

4. TREES NEAR THE CONSTRUCTION ZONE NOT OTHERWISE PROTECTED BY FENCING SHALL BE PROTECTED IN ACCORDANCE WITH AS4970 SECTION 4.5. ALTERNATIVE PROTECTION MEASURES SATISFYING THE PROJECTS ABORIST'S REQUIREMENTS IS ACCEPTABLE. TRUNK PROTECTION SHOULD BE MAINTAINED INTACT UNTIL THE COMPLETION OF ALL WORK ON THE SITE. ALL TREES REQUIRING REMOVAL ARE SHOWN ON THIS PLAN & SHALL BE MARKED ACCORDINGLY PRIOR TO REMOVAL.

5. TOPSOIL FROM AREAS THAT WILL BE DISTURBED TO BE STRIPPED & STOCKPILED AT THE NOMINATED SITE.

6. A MINIMUM STOCK OF THE FOLLOWING SHALL BE KEPT ON SITE AT ALL TIMES:
(A) 50m ROLL OF SEDIMENT FENCE & PEGS.
(B) 50m ROLL OF BIDIM GEOTEXTILE.

7. ANY DISTURBED AREA OF LAND SHALL BE COMPACTED AT THE END OF EACH WORKING DAY & BEFORE ANY STORM EVENT.

8. CONSTRUCTION AREA IS TO BE LIMITED AS SHOWN TO MINIMISE DISTURBANCE.

9. SEDIMENT FENCING SHALL BE PLACED AROUND ANY STOCKPILE AREA.

10. ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE LANDCOM PUBLICATION:- "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" Vol. 1, 4th EDITION.

11. ALL DISTURBED AREAS SHALL BE APPROPRIATELY STABILISED WITHIN 14 DAYS OF FINAL TRIMMING.

CONCRETE NOTES

(USING STEEL REINFORCED CONCRETE U.N.O.)

1. MATERIALS AND CONSTRUCTION: TO AS 3600, AS 3610.
   STEEL REINFORCEMENT MATERIALS: TO AS 4671.

2. CONCRETE QUALITY: TO AS 1379
   READY MIX CONCRETE: TO AS 1379
   a) DO NOT USE ADMIXTURES WITHOUT WRITTEN APPROVAL FROM SUPERVISING ENGINEER.
   b) CEMENT: TYPE 'GP' OR 'GB' TO AS 3972.
   c) MAXIMUM SIZE OF COARSE AGGREGATE: 20mm.
   d) CONCRETE SLUMP: 80mm U.N.O.

ELEMENT	CHARACTERISTIC CONCRETE STRENGTH(f'c) AT 28 DAYS	COVER	SPECIAL REQUIREMENTS
CYCLEPATH	N25 (U.N.O.)	AS DETAILED	BROOM FINISH & COLOURED WITH BORAL "INDIAN INK" COLOUR OR EQUIVALENT TO FULL DEPTH.

3. VERIFY STRENGTH BY PRODUCTION CONTROL TESTING TO AS 1379.

4. NO UNSPECIFIED HOLES, DUCTING OR CHASES ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM SUPERINTENDENT (SUPERVISING OFFICER). NO PIPES OR CONDUITS ARE PERMITTED WITHIN CONCRETE COVER.

5. STRUCTURAL DIMENSIONS DO NOT INCLUDE TOPPINGS OR FINISHES.

6. FORM CONSTRUCTION JOINTS ONLY AT LOCATIONS SHOWN ON DRAWINGS. DO NOT VARY WITHOUT WRITTEN APPROVAL FROM SUPERVISING ENGINEER.

7. PREPARE COLD JOINTS BY LIGHT SCABBLING, REMOVAL OF DEBRIS & WASHING WITH CLEAN WATER.

8. FOUNDATION MATERIALS MUST BE CAPABLE OF WITHSTANDING A SAFE BEARING PRESSURE OF 100kPa. VERIFY & RECORD THE BEARING CAPACITY BEFORE ANY CONCRETE IS PLACED.

9. DO NOT PLACE CONCRETE UNTIL REINFORCEMENT (IF USED) & FORMWORK ARE INSPECTED BY SUPERVISING ENGINEER.

10. THOROUGHLY CLEAN OUT ALL FORMWORK PRIOR TO POURING.

11. DO NOT PLACE CONCRETE UNDER THE FOLLOWING CONDITIONS:
a) WHEN THE SURROUNDING OUTDOOR TEMPERATURE EXCEEDS 30°C.
b) WHEN THE SURROUNDING WIND SPEED EXCEEDS 12 KNOTS.

12. IMPLEMENT THE FOLLOWING PROCEDURES TO MITIGATE PREMATURE DRYING & CRACKING OF THE CONCRETE:
a) IN HOT CONDITIONS, PROGRAM CONCRETE PLACEMENT FOR THE COOLER PART OF THE DAY (ie. EARLY MORNING).
b) SPRAY EVAPORATIVE RETARDERS WITH FUGATIVE DYES (eg. ALIPHATIC ALCOHOL) OVER THE SURFACE IMMEDIATELY AFTER SCREEDING & WHILST BLEED WATER IS STILL PRESENT. REAPPLY IF THE SURFACE IS DISTURBED.
c) COMMENCE CURING IMMEDIATELY AFTER FINISHING. CURE FOR 7 DAYS.

13. VIBRATE CONCRETE DURING PLACEMENT TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION.

14. SURFACE FINISH - REFER TO DRAWINGS FOR DETAILS.

15. COMMENCE CURING OF ALL CONCRETE SURFACES IMMEDIATELY ON FINISHING & CONTINUE FOR 7 DAYS MIN.

16. EXPANSION JOINTS & ISOLATION JOINTS ARE TO BE SEALED TO MANUFACTURER'S SPECIFICATIONS WITH A GUN GRADE POLYURETHANE LOW MODULUS SELF PRIMING SEALANT EQUAL TO 'TREMCO DYMONIC NT' (+100%, -50% MOVEMENT CAPACITY). SEALANT COLOUR GREY OR EQUIVALENT.

SEDIMENTATION FENCING NOTES:

1. SEDIMENT FENCE TO BE CONSTRUCTED BY STRETCHING A FILTER FABRIC APPROVED BY THE PROJECT MANAGER BETWEEN POSTS AT 3.0m CENTRES. FABRIC TO BE BURIED A MINIMUM OF 150mm ALONG IT'S LOWER EDGE EXCEPT WHEN IN TPZ'S.

2. SEDIMENT FENCE IS TO BE INSTALLED & APPROVED BY THE PROJECT MANAGER BEFORE OVERBURDEN IS REMOVED. THIS FENCE MAY REQUIRE REPLACEMENT AT TIMES IF LOCATED WITHIN OR NEARBY CONSTRUCTION ZONES.

3. CLEAN BEHIND FENCE AFTER EACH MAJOR STORM OR OTHERWISE AS DIRECTED & REMOVE ALL SILT FROM THE SITE. SITE DISPOSAL WILL ONLY BE APPROVED WHERE IT CAN BE ESTABLISHED THAT NO FURTHER EROSION OF THE MATERIAL CAN OCCUR.

ABORIGINAL ARTEFACT NOTES:

1. AN AHIMS WEB SEARCH HAS BEEN UNDERTAKEN FOR THIS PROJECT (REF: 650724 & 650726). ALTHOUGH NO ARTIFACTS HAVE BEEN IDENTIFIED IN THIS SEARCH SHOULD ANY POTENTIAL ARTIFACTS BE UNCOVERED THEY ARE NOT TO BE REMOVED FROM THE SITE & SHALL BE IMMEDIATELY REPORTED TO COUNCIL'S PROJECT MANAGER.

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Hornsby Shire Council Design & Construction Branch
TELEPHONE: (02) 9847 6666
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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH	Design Checked-Design Team Leader Signed:
Drawn: S. COMISH	Drawing Checked Signed:
Surveyor: M. LAWTON	NA Field Book / NA Level Book / AHD Datum
Project Identifier\-\CAD File Name	H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg
TRIM Document Number	XXX

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

Bar Scales: NOT TO SCALE
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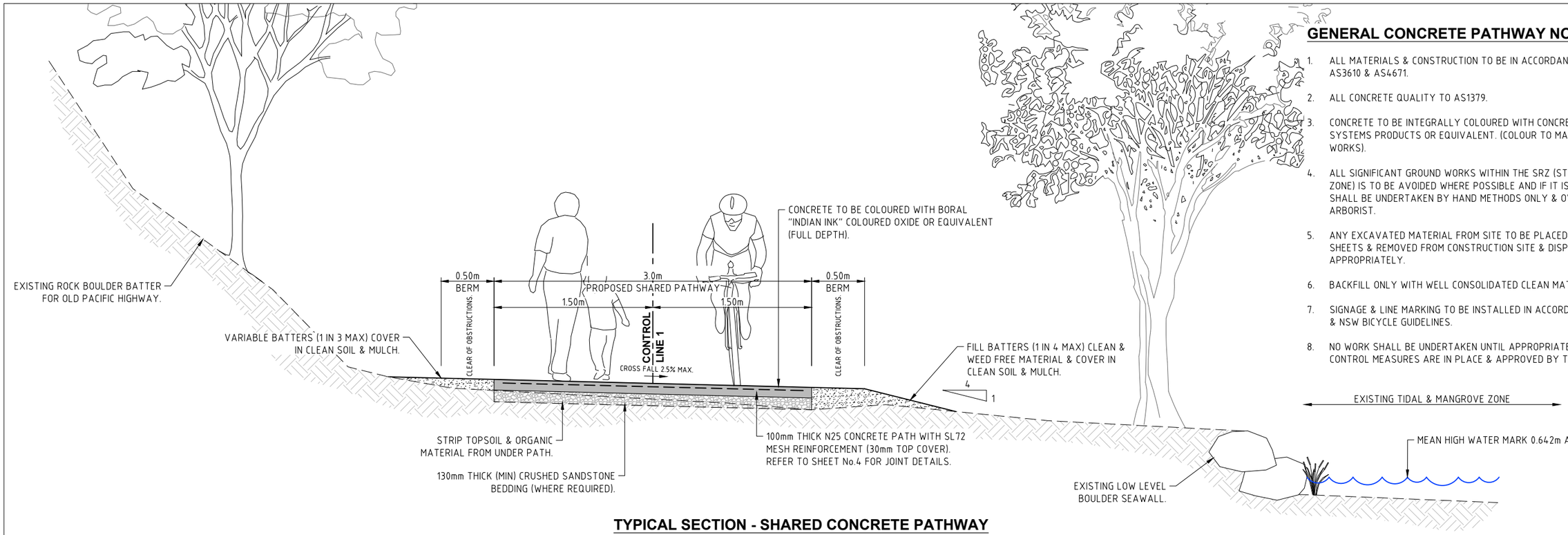
HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK SEYMOURS CREEK TO KANGAROO POINT

PROJECT NOTES

Project Number: 100277
Sheet 2 of 30 Issue 2
HSC Drawing Number: 29.31

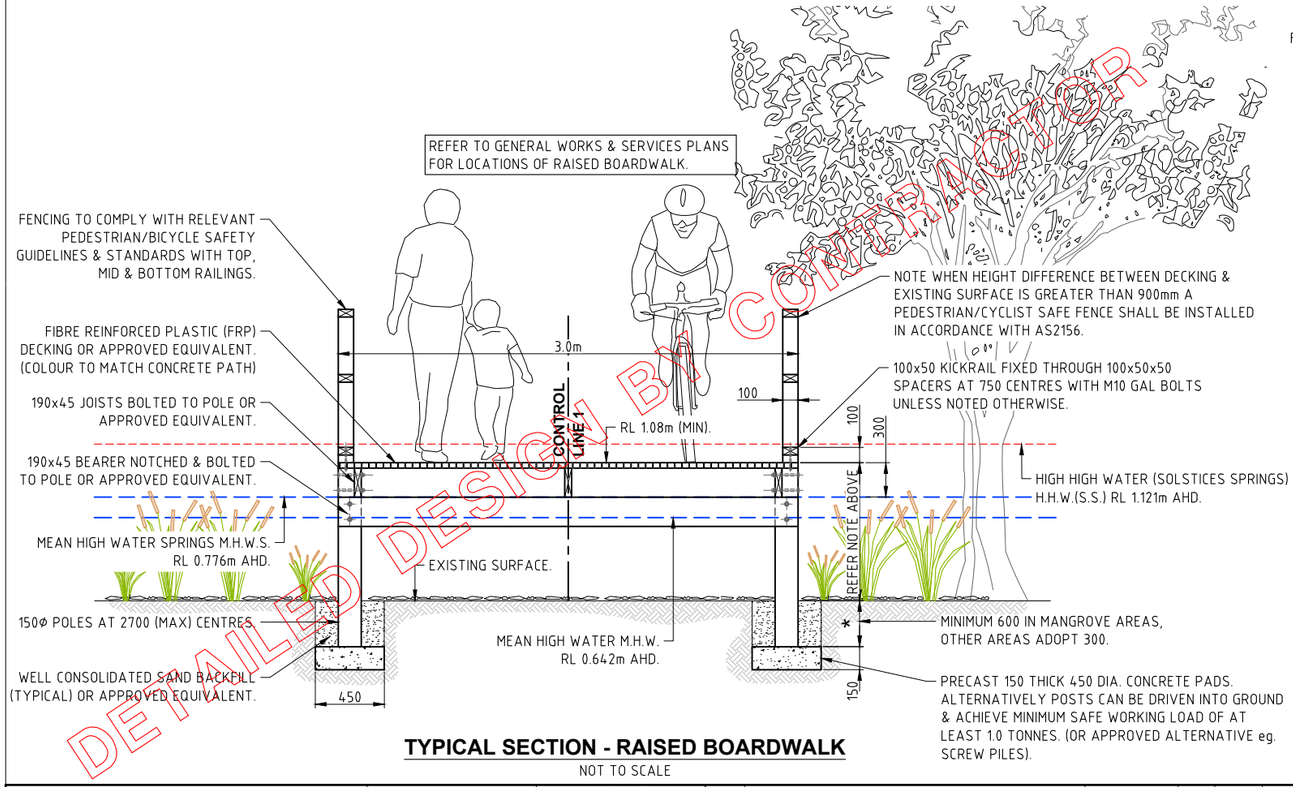


TYPICAL SECTION - SHARED CONCRETE PATHWAY

NOT TO SCALE

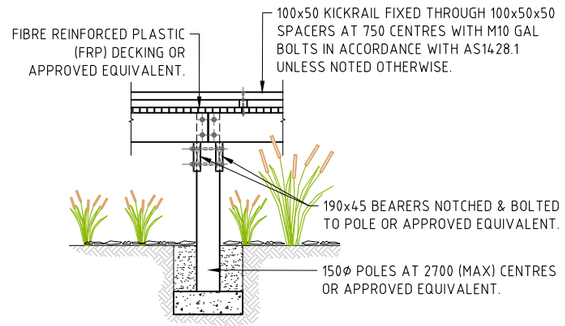
GENERAL CONCRETE PATHWAY NOTES:

1. ALL MATERIALS & CONSTRUCTION TO BE IN ACCORDANCE WITH AS3600, AS3610 & AS4671.
2. ALL CONCRETE QUALITY TO AS1379.
3. CONCRETE TO BE INTEGRALLY COLOURED WITH CONCRETE COLOURED SYSTEMS PRODUCTS OR EQUIVALENT. (COLOUR TO MATCH KANGAROO POINT WORKS).
4. ALL SIGNIFICANT GROUND WORKS WITHIN THE SRZ (STRUCTURAL ROOT ZONE) IS TO BE AVOIDED WHERE POSSIBLE AND IF IT IS NOT AVOIDABLE IT SHALL BE UNDERTAKEN BY HAND METHODS ONLY & OVERSEEN BY AN AQF5 ARBORIST.
5. ANY EXCAVATED MATERIAL FROM SITE TO BE PLACED ON PLASTIC GROUND SHEETS & REMOVED FROM CONSTRUCTION SITE & DISPOSED OF APPROPRIATELY.
6. BACKFILL ONLY WITH WELL CONSOLIDATED CLEAN MATERIAL.
7. SIGNAGE & LINE MARKING TO BE INSTALLED IN ACCORDANCE WITH AS1742.9 & NSW BICYCLE GUIDELINES.
8. NO WORK SHALL BE UNDERTAKEN UNTIL APPROPRIATE EROSION & SEDIMENT CONTROL MEASURES ARE IN PLACE & APPROVED BY THE PROJECT MANAGER.



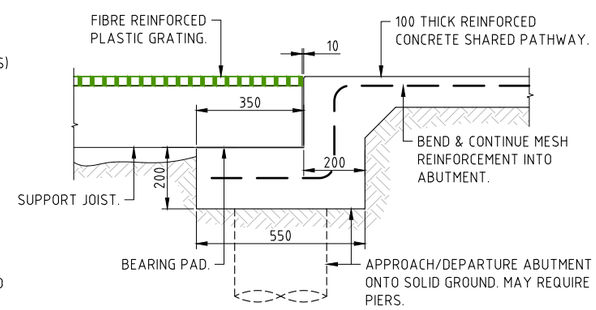
TYPICAL SECTION - RAISED BOARDWALK

NOT TO SCALE



ELEVATION OF RAISED BOARDWALK

NOT TO SCALE



DECKING ABUTMENT DETAIL (UNFIXED)

NOT TO SCALE

GENERAL BOARDWALK NOTES:

1. MATERIALS & DIMENSIONS SHOWN ON THIS DRAWING ARE INDICATIVE ONLY & ARE SUBJECT TO DETAILED STRUCTURAL DESIGN. DETAILS SHOWN HERE ARE A GUIDE ONLY. CONTRACTOR TO PROVIDE SUITABLE DETAILED DESIGN FOR APPROVAL PRIOR TO CONSTRUCTION.
2. WHERE FENCING IS TO BE PROVIDED FOR RAISED SECTIONS IT MUST COMPLY WITH RELEVANT GUIDELINES & STANDARDS.
3. REFER TO SHEET No.2 FOR TREE PROTECTION MEASURES.
4. PROPOSED DECK & FOOTINGS ARE TO BE POSITIONED CLEAR OF ADJACENT TREE ROOTS, TREE TRUNKS & UTILITY SERVICES (CONTRACTOR IS REQUIRED TO PROPOSE MOST SUITABLE FOOTING SOLUTION FOR THIS SITUATION PRIOR TO CONSTRUCTION).
5. DESIGN MUST INCLUDE SOME FLEXIBILITY IN FOOTING AND/OR PIER LOCATIONS SHOULD SIGNIFICANT TREE ROOTS BE ENCOUNTERED.
6. A CONSTRUCTION METHODOLOGY FOR INSTALLING THE BEARING SOLUTION (I.E. FOOTINGS, PIERS ETC.) PARTICULARLY AROUND STRUCTURAL ROOT ZONES (SRZ) SHALL BE PROVIDED AT LEAST TWO (2) WEEKS PRIOR TO CONSTRUCTION.
7. DRILLING OF HOLES FOR POSTS & CONCRETE FOOTINGS TO BE UNDERTAKEN DURING LOW TIDE TO MINIMISE DISTURBANCE OF EXISTING EARTH.
8. CONCRETE FOOTINGS TO BE PRECAST & NOT POURED INTO HOLES.
9. SPILL MATERIAL FROM FOOTING HOLES TO BE PLACED ON PLASTIC GROUND SHEETS & REMOVED FROM CONSTRUCTION SITE & DISPOSED OF APPROPRIATELY.
10. ALL EXCAVATION WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH THE ACID SULPHATE MANAGEMENT PLAN (ASSMP) FOR THIS PROJECT.

DETAILED DESIGN BY CONTRACTOR

PRELIMINARY
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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH	Design Checked-Design Team Leader: Signed:		
Drawn: S. COMISH	Drawing Checked: Signed:		
Surveyor: M. LAWTON	NA Field Book	NA Level Book	AHD Datum
Project Identifier\-\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg			
TRIM Document Number: XXX			

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

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Bar Scales: 0 2 4 6 8 10m
SCALE 1:200 @ A1
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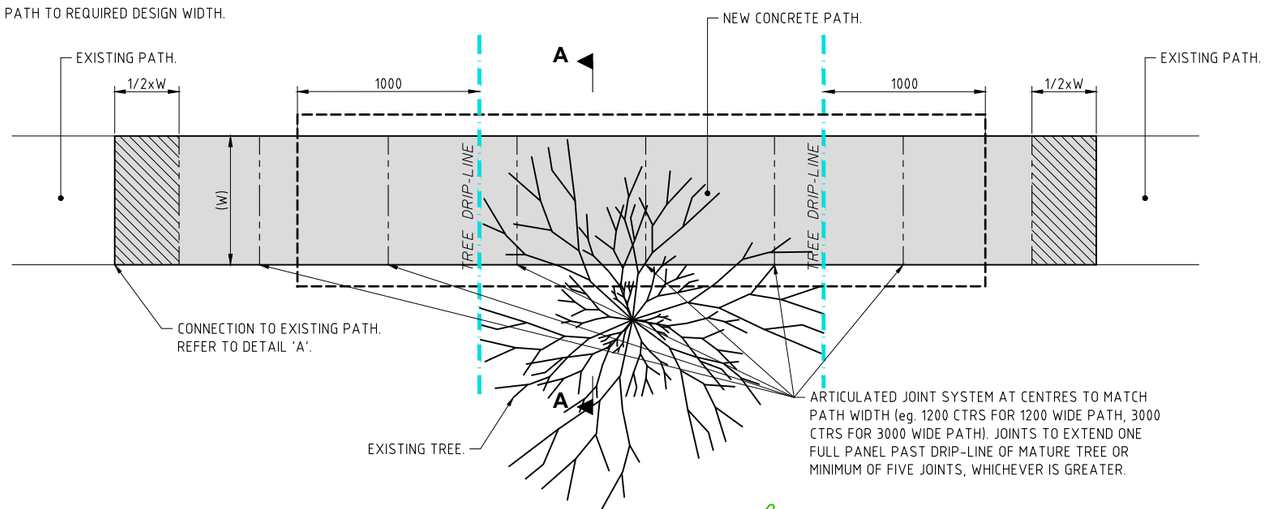
HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

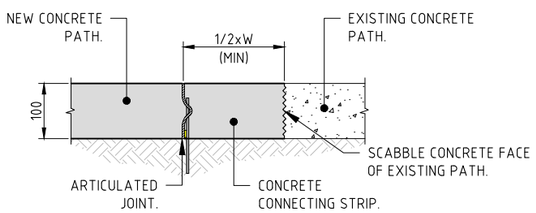
BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

BOARDWALK & SHARED PATHWAY TYPICAL SECTIONS

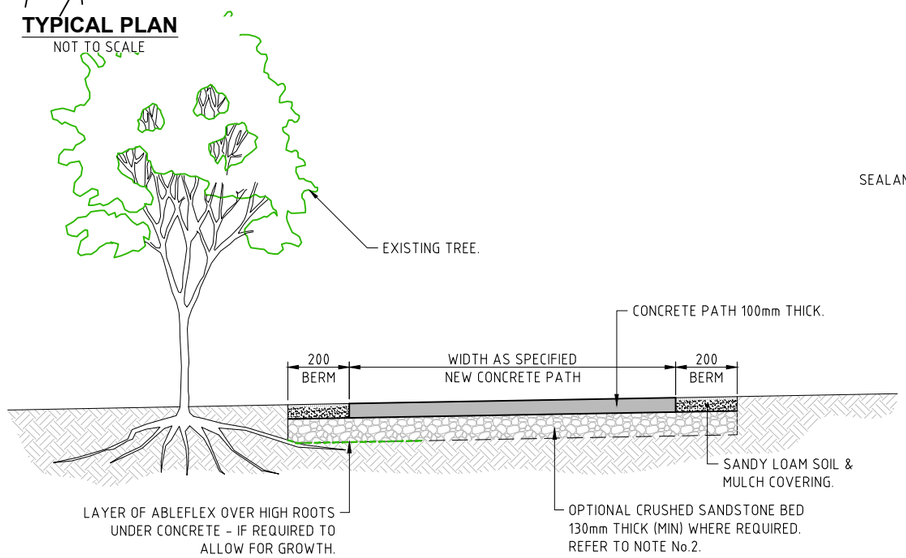
Project Number: 100277
Sheet 3 of 30
Issue 2
HSC Drawing Number: 29.31



TYPICAL PLAN
NOT TO SCALE



DETAIL A
CONNECTION TO EXISTING PATH

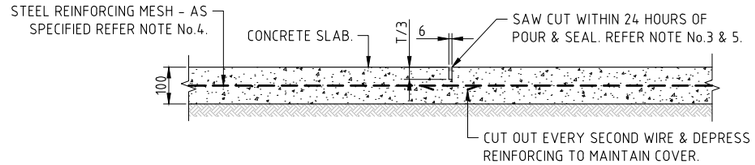


SECTION A-A
NOT TO SCALE

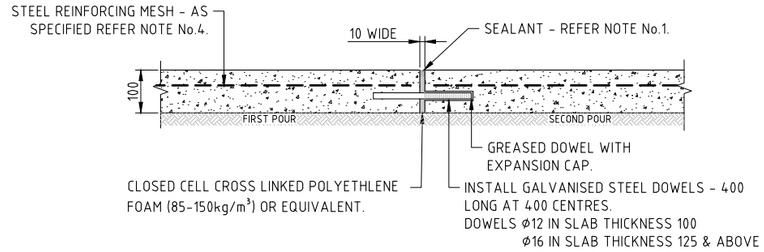
JOINTING DETAILS FOR PATH NEAR TREES

NOTES:

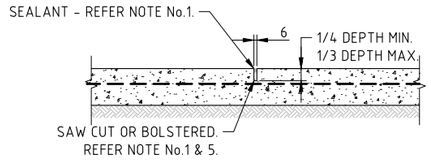
1. ARTICULATED JOINT SYSTEM (TRIPSTOP OR APPROVED ALTERNATIVE) INSTALLED AT CENTRES TO MATCH PATH WIDTH (e.g. 1200 CTRS FOR 1200 WIDE PATH, 3000 CTRS FOR 3000 WIDE PATH). JOINTS TO EXTEND ONE FULL PANEL PAST DRIP-LINE OF MATURE TREE OR MINIMUM OF FIVE JOINTS, WHICHEVER IS GREATER.
2. OPTIONAL CRUSHED SANDSTONE BED TO EXTEND MINIMUM 1000 PAST DRIP-LINE OF TREE & MINIMUM 200 EITHER SIDE OF PATH. BEDS INSTALLED AS REQUIRED OR DIRECTED TO ALLOW EASE OF ROOT TRAVEL BELOW CONCRETE PATH. MATERIAL FOR BED TO BE NOMINAL 5mm ROUNDED SANDSTONE, UNIFORMLY GRADED.
3. FOR LOCATIONS WITH EXISTING TREES, A QUALIFIED ARBORIST IS REQUIRED TO BE CONSULTED TO CHECK ROOT SYSTEM BEFORE INSTALLATION OF PATH. ROOT TRIMMING OR PRUNING IS ONLY TO BE CONSIDERED AS A LAST OPTION WITH APPROVAL OF ARBORIST.
4. THIS STANDARD DOES NOT APPLY TO HIGHLY SIGNIFICANT TREES. CONTACT COUNCIL'S PROJECT MANAGER FOR SPECIAL REQUIREMENTS AT THESE LOCATIONS.
5. REFER TO PROJECT DRAWINGS FOR ACTUAL ALIGNMENT,WIDTH, THICKNESS & OTHER DETAILS.
6. REFER www.tripstop.net FOR SUPPLIER LOCATIONS & INSTALLATION REQUIREMENTS.



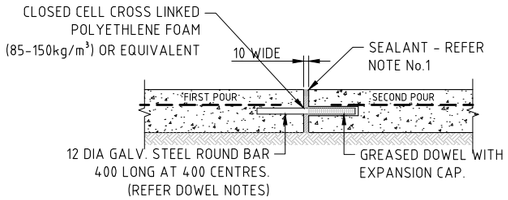
CONTROL JOINT DETAIL (CJ)
(3.0 METRE MAX. SPACING)



DOWELLED EXPANSION JOINT DETAIL (DEJ)
(12.0 METRE MAX. SPACING)

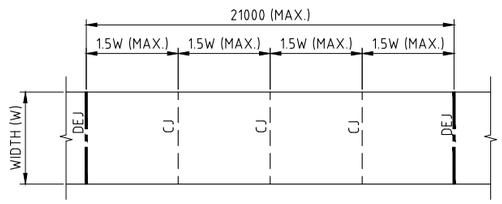


CONTROL JOINT UNREINFORCED CONCRETE (CJU)



DOWELLED EXPANSION JOINT UNREINFORCED CONCRETE (DEJU)

TYPICAL JOINTING DETAILS FOR PATH



TYPICAL JOINT LAYOUT (U.N.O.)
N.T.S.

DOWEL NOTES:

- GREASE DOWEL IN SECOND POUR.
- ENSURE DOWELS ARE STRAIGHT, PERPENDICULAR TO JOINT & CAPPED. (USE OF PROPRIETARY SLEEVE MAY BE REQUIRED).
- DO NOT DISPLACE DURING POUR.

TYPICAL JOINT NOTES:

1. EXPANSION JOINTS & CONTROL JOINTS ARE TO BE SEALED WITH A LOW MODULUS SELF PRIMING SEALANT TO THE MANUFACTURERS SPECIFICATION. THE COLOUR OF THE SEALANT SHALL MATCH THE ADJOINING SURFACE FINISH.
2. ALL CONCRETE CONSTRUCTION TO COMPLY WITH THE REQUIREMENTS OF AS 3600 - CONCRETE CODE.
3. CONTROL JOINTS TO BE SQUARE TO SIDES.
4. WHERE SPECIFIED, STEEL REINFORCEMENT MESH TO COMPLY WITH AS/NZS 4671.
5. CONTROL JOINTS ARE TO BE SAWCUT WITHIN 24 HOURS OF POUR & THEN SEALED. REFER NOTE No.3.

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Hornsby Shire Council Design & Construction Branch
TELEPHONE: (02) 9847 6666
FACSIMILE: (02) 9847 6999

Designer: S. COMISH	Design Checked-Design Team Leader Signed:		
Drawn: S. COMISH	Drawing Checked Signed:		
Surveyor: M. LAWTON	NA Field Book	NA Level Book	AHD Datum
Project Identifier\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg			
TRIM Document Number: XXX			

Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

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Bar Scales: NOT TO SCALE
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HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CONCRETE PATH JOINT DETAILS

Project Number: 100277
Sheet 4 of 30
Issue 2
HSC Drawing Number: 29.31

Hornsby Shire Council
Design & Construction Branch

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Bar Scales
0 20 40 60 80 100m
SCALE 1:2000 @ A1
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

OVERALL LAYOUT PLAN

Project Number: **100277**
Sheet **5** of **30**
Issue **2**
HSC Drawing Number: **29.31**

ALIGN CL1 SETOUT DETAILS

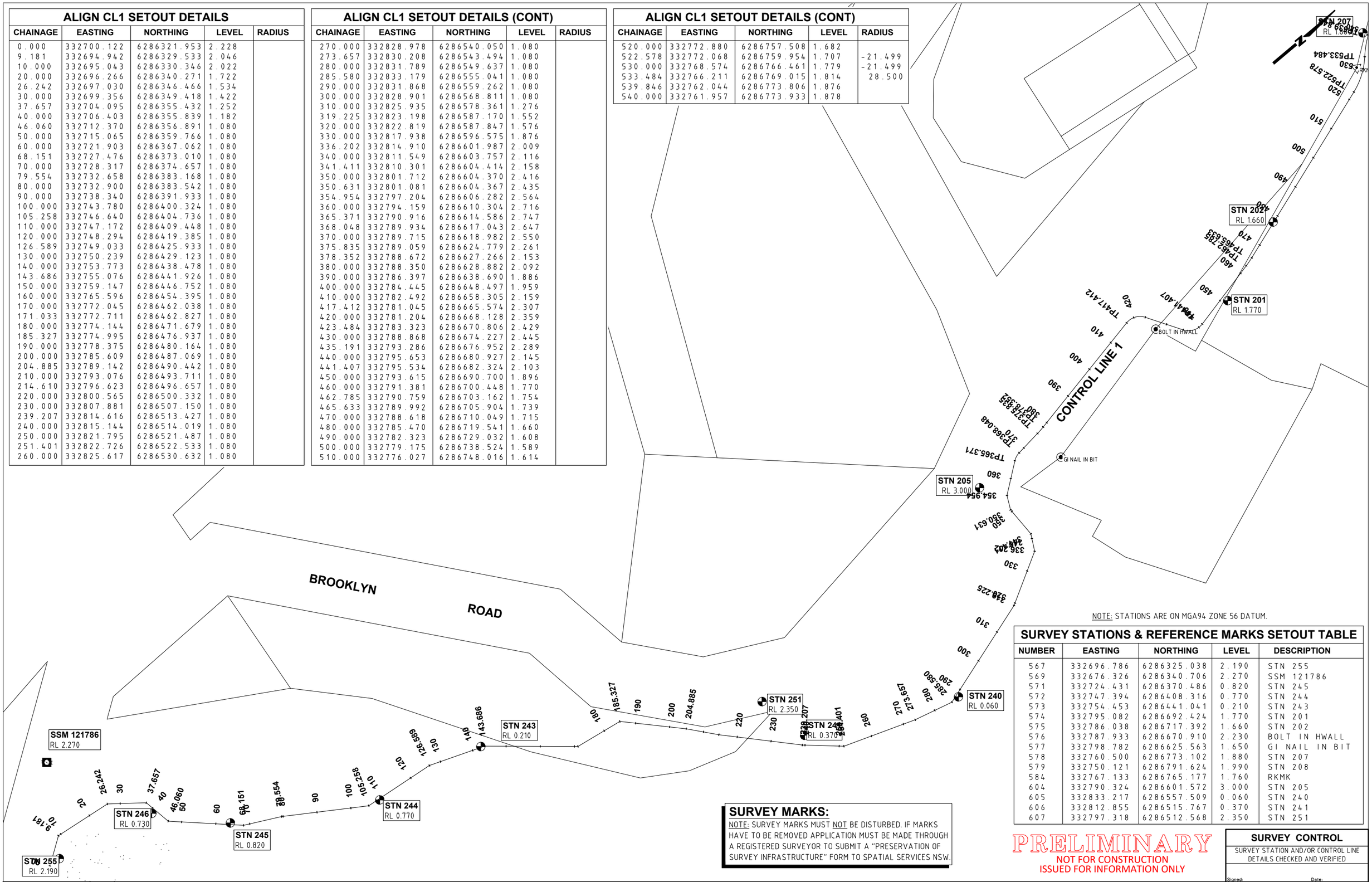
CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS
0.000	332700.122	6286321.953	2.228	
9.181	332694.942	6286329.533	2.046	
10.000	332695.043	6286330.346	2.022	
20.000	332696.266	6286340.271	1.722	
26.242	332697.030	6286346.466	1.534	
30.000	332699.356	6286349.418	1.422	
37.657	332704.095	6286355.432	1.252	
40.000	332706.403	6286355.839	1.182	
46.060	332712.370	6286356.891	1.080	
50.000	332715.065	6286359.766	1.080	
60.000	332721.903	6286367.062	1.080	
68.151	332727.476	6286373.010	1.080	
70.000	332728.317	6286374.657	1.080	
79.554	332732.658	6286383.168	1.080	
80.000	332732.900	6286383.542	1.080	
90.000	332738.340	6286391.933	1.080	
100.000	332743.780	6286400.324	1.080	
105.258	332746.640	6286404.736	1.080	
110.000	332747.172	6286409.448	1.080	
120.000	332748.294	6286419.385	1.080	
126.589	332749.033	6286425.933	1.080	
130.000	332750.239	6286429.123	1.080	
140.000	332753.773	6286438.478	1.080	
143.686	332755.076	6286441.926	1.080	
150.000	332759.147	6286446.752	1.080	
160.000	332765.596	6286454.395	1.080	
170.000	332772.045	6286462.038	1.080	
171.033	332772.711	6286462.827	1.080	
180.000	332774.144	6286471.679	1.080	
185.327	332774.995	6286476.937	1.080	
190.000	332778.375	6286480.164	1.080	
200.000	332785.609	6286487.069	1.080	
204.885	332789.142	6286490.442	1.080	
210.000	332793.076	6286493.711	1.080	
214.610	332796.623	6286496.657	1.080	
220.000	332800.565	6286500.332	1.080	
230.000	332807.881	6286507.150	1.080	
239.207	332814.616	6286513.427	1.080	
240.000	332815.144	6286514.019	1.080	
250.000	332821.795	6286521.487	1.080	
251.401	332822.726	6286522.533	1.080	
260.000	332825.617	6286530.632	1.080	

ALIGN CL1 SETOUT DETAILS (CONT)

CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS
270.000	332828.978	6286540.050	1.080	
273.657	332830.208	6286543.494	1.080	
280.000	332831.789	6286549.637	1.080	
285.580	332833.179	6286555.041	1.080	
290.000	332831.868	6286559.262	1.080	
300.000	332828.901	6286568.811	1.080	
310.000	332825.935	6286578.361	1.276	
319.225	332823.198	6286587.170	1.552	
320.000	332822.819	6286587.847	1.576	
330.000	332817.938	6286596.575	1.876	
336.202	332814.910	6286601.987	2.009	
340.000	332811.549	6286603.757	2.116	
341.411	332810.301	6286604.414	2.158	
350.000	332801.712	6286604.370	2.416	
350.631	332801.081	6286604.367	2.435	
354.954	332797.204	6286606.282	2.564	
360.000	332794.159	6286610.304	2.716	
365.371	332790.916	6286614.586	2.747	
368.048	332789.934	6286617.043	2.647	
370.000	332789.715	6286618.982	2.550	
375.835	332789.059	6286624.779	2.261	
378.352	332788.672	6286627.266	2.153	
380.000	332788.350	6286628.882	2.092	
390.000	332786.397	6286638.690	1.886	
400.000	332784.445	6286648.497	1.959	
410.000	332782.492	6286658.305	2.159	
417.412	332781.045	6286665.574	2.307	
420.000	332781.204	6286668.128	2.359	
423.484	332783.323	6286670.806	2.429	
430.000	332788.868	6286674.227	2.445	
435.191	332793.286	6286676.952	2.289	
440.000	332795.653	6286680.927	2.145	
441.407	332795.534	6286682.324	2.103	
450.000	332793.615	6286690.700	1.896	
460.000	332791.381	6286700.448	1.770	
462.785	332790.759	6286703.162	1.754	
465.633	332789.992	6286705.904	1.739	
470.000	332788.618	6286710.049	1.715	
480.000	332785.470	6286719.541	1.660	
490.000	332782.323	6286729.032	1.608	
500.000	332779.175	6286738.524	1.589	
510.000	332776.027	6286748.016	1.614	

ALIGN CL1 SETOUT DETAILS (CONT)

CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS
520.000	332772.880	6286757.508	1.682	
522.578	332772.068	6286759.954	1.707	-21.499
530.000	332768.574	6286766.461	1.779	-21.499
533.484	332766.211	6286769.015	1.814	28.500
539.846	332762.044	6286773.806	1.876	
540.000	332761.957	6286773.933	1.878	



NOTE: STATIONS ARE ON MGA94 ZONE 56 DATUM.

SURVEY STATIONS & REFERENCE MARKS SETOUT TABLE

NUMBER	EASTING	NORTHING	LEVEL	DESCRIPTION
567	332696.786	6286325.038	2.190	STN 255
569	332676.326	6286340.706	2.270	SSM 121786
571	332724.431	6286370.486	0.820	STN 245
572	332747.394	6286408.316	0.770	STN 244
573	332754.453	6286441.041	0.210	STN 243
574	332795.082	6286692.424	1.770	STN 201
575	332786.038	6286717.392	1.660	STN 202
576	332787.933	6286670.910	2.230	BOLT IN HWALL
577	332798.782	6286625.563	1.650	GI NAIL IN BIT
578	332760.500	6286773.102	1.880	STN 207
579	332750.121	6286791.624	1.990	STN 208
584	332767.133	6286765.177	1.760	RKMK
604	332790.324	6286601.572	3.000	STN 205
605	332833.217	6286557.509	0.060	STN 240
606	332812.855	6286515.767	0.370	STN 241
607	332797.318	6286512.568	2.350	STN 251

SURVEY MARKS:

NOTE: SURVEY MARKS MUST NOT BE DISTURBED. IF MARKS HAVE TO BE REMOVED APPLICATION MUST BE MADE THROUGH A REGISTERED SURVEYOR TO SUBMIT A "PRESERVATION OF SURVEY INFRASTRUCTURE" FORM TO SPATIAL SERVICES NSW.

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SURVEY CONTROL
SURVEY STATION AND/OR CONTROL LINE DETAILS CHECKED AND VERIFIED
Signed: Date:

Hornsby Shire Council
Design & Construction Branch
TELEPHONE: (02) 9847 6666
FACSIMILE: (02) 9847 6999

Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH — Design Checked-Design Team Leader — Signed:
Drawn: S. COMISH — Drawing Checked — Signed:
Surveyor: M. LAWTON — NA Field Book — NA Level Book — AHD Datum
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HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CONTROL LINE 1 SETOUT DETAILS
SHEET 1 OF 2

Project Number: 100277
Sheet 6 of 30 — Issue 2
HSC Drawing Number: 29.31

NOTE: STATIONS ARE ON MGA94 ZONE 56 DATUM.

SURVEY STATIONS & REFERENCE MARKS SETOUT TABLE

NUMBER	EASTING	NORTHING	LEVEL	DESCRIPTION
570	332707.527	6286354.666	0.730	STN 246
576	332787.933	6286670.901	2.230	BOLT IN HWALL
577	332798.782	6286625.563	1.650	NAIL IN BIT
579	332750.121	6286791.624	1.990	STN 208
584	332767.133	6286765.177	1.760	RKMK
585	332722.384	6286835.121	1.960	STN 210
588	332698.986	6286851.052	3.150	STN 211
589	332700.061	6286899.865	3.130	STN 213
590	332693.615	6286872.207	3.370	STN 212
592	332712.853	6286942.582	3.210	STN 214
593	332723.391	6286983.802	2.680	STN 215
594	332730.966	6287016.928	3.200	STN 216
595	332742.963	6287022.080	0.620	STN 217
596	332716.369	6287042.987	12.780	STN 222
597	332731.671	6287114.076	12.530	PM 33005
598	332753.489	6287129.084	7.490	STN 228
599	332767.722	6287080.465	0.720	STN 226
600	332776.405	6287121.563	0.860	STN 227
601	332847.505	6287162.067	2.310	STN 233
602	332850.451	6287162.487	1.810	PM 33004
603	332858.974	6287155.705	2.080	STN 235

SURVEY MARKS:

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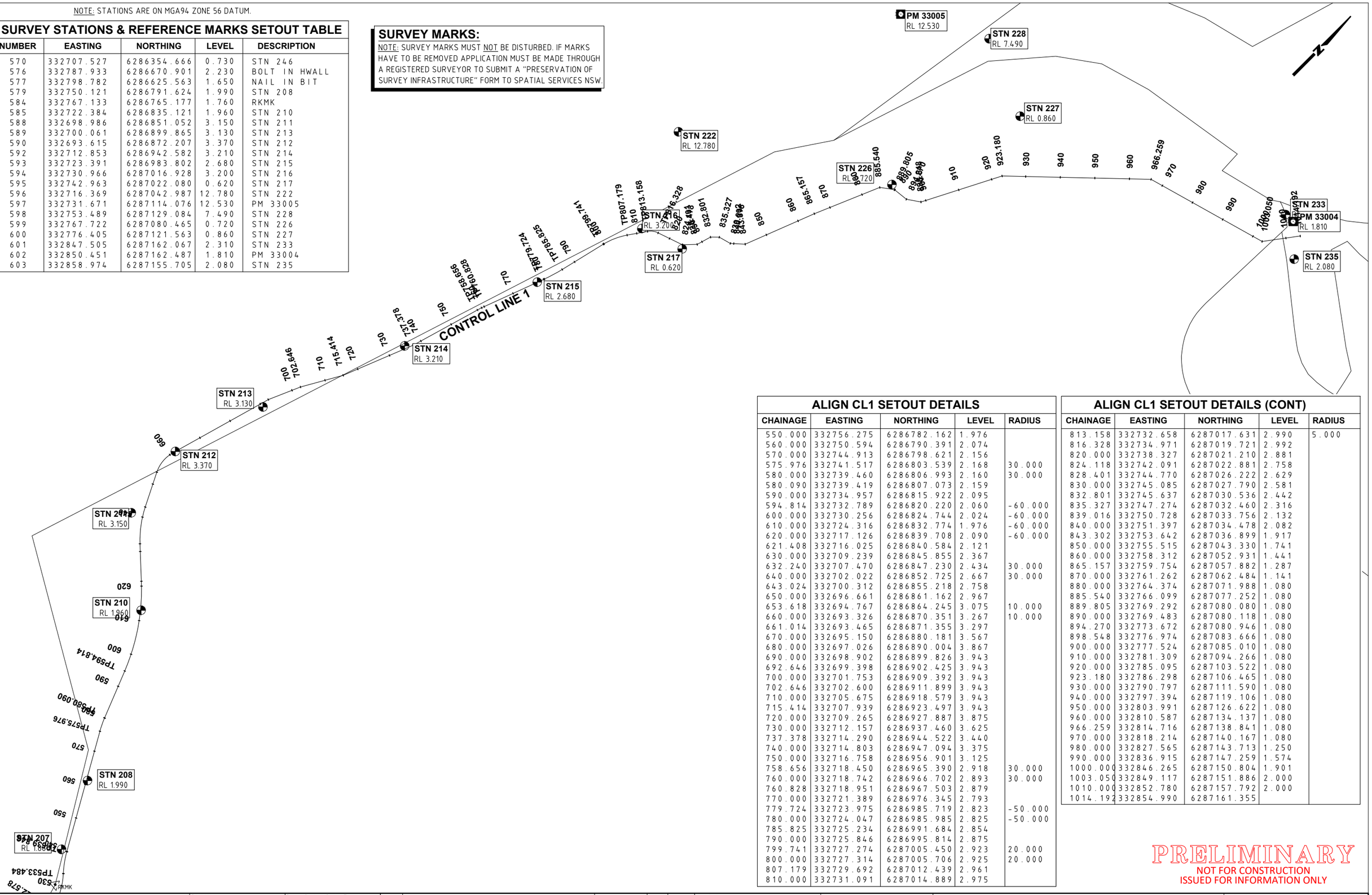

ALIGN CL1 SETOUT DETAILS

CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS
550.000	332756.275	6286782.162	1.976	
560.000	332750.594	6286790.391	2.074	
570.000	332744.913	6286798.621	2.156	
575.976	332741.517	6286803.539	2.168	30.000
580.000	332739.460	6286806.993	2.160	30.000
580.090	332739.419	6286807.073	2.159	
590.000	332734.957	6286815.922	2.095	
594.814	332732.789	6286820.220	2.060	-60.000
600.000	332730.256	6286824.744	2.024	-60.000
610.000	332724.316	6286832.774	1.976	-60.000
620.000	332717.126	6286839.708	2.090	-60.000
621.408	332716.025	6286840.584	2.121	
630.000	332709.239	6286845.855	2.367	
632.240	332707.470	6286847.230	2.434	30.000
640.000	332702.022	6286852.725	2.667	30.000
643.024	332700.312	6286855.218	2.758	
650.000	332696.661	6286861.162	2.967	
653.618	332694.767	6286864.245	3.075	10.000
660.000	332693.326	6286870.351	3.267	10.000
661.014	332693.465	6286871.355	3.297	
670.000	332695.150	6286880.181	3.567	
680.000	332697.026	6286890.004	3.867	
690.000	332698.902	6286899.826	3.943	
692.646	332699.398	6286902.425	3.943	
700.000	332701.753	6286909.392	3.943	
702.646	332702.600	6286911.899	3.943	
710.000	332705.675	6286918.579	3.943	
715.414	332707.939	6286923.497	3.943	
720.000	332709.265	6286927.887	3.875	
730.000	332712.157	6286937.460	3.625	
737.378	332714.290	6286944.522	3.440	
740.000	332714.803	6286947.094	3.375	
750.000	332716.758	6286956.901	3.125	
758.656	332718.450	6286965.390	2.918	30.000
760.000	332718.742	6286966.702	2.893	30.000
760.828	332718.951	6286967.503	2.879	
770.000	332721.389	6286976.345	2.793	
779.724	332723.975	6286985.719	2.823	-50.000
780.000	332724.047	6286985.985	2.825	-50.000
785.825	332725.234	6286991.684	2.854	
790.000	332725.846	6286995.814	2.875	
799.741	332727.274	6287005.450	2.923	20.000
800.000	332727.314	6287005.706	2.925	20.000
807.179	332729.692	6287012.439	2.961	
810.000	332731.091	6287014.889	2.975	

ALIGN CL1 SETOUT DETAILS (CONT)

CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS
813.158	332732.658	6287017.631	2.990	5.000
816.328	332734.971	6287019.721	2.992	
820.000	332738.327	6287021.210	2.881	
824.118	332742.091	6287022.881	2.758	
828.401	332744.770	6287026.222	2.629	
830.000	332745.085	6287027.790	2.581	
832.801	332745.637	6287030.536	2.442	
835.327	332747.274	6287032.460	2.316	
839.016	332750.728	6287033.756	2.132	
840.000	332751.397	6287034.478	2.082	
843.302	332753.642	6287036.899	1.917	
850.000	332755.515	6287043.330	1.741	
860.000	332758.312	6287052.931	1.441	
865.157	332759.754	6287057.882	1.287	
870.000	332761.262	6287062.484	1.141	
880.000	332764.374	6287071.988	1.080	
885.540	332766.099	6287077.252	1.080	
889.805	332769.292	6287080.080	1.080	
890.000	332769.483	6287080.118	1.080	
894.270	332773.672	6287080.946	1.080	
898.548	332776.974	6287083.666	1.080	
900.000	332777.524	6287085.010	1.080	
910.000	332781.309	6287094.266	1.080	
920.000	332785.095	6287103.522	1.080	
923.180	332786.298	6287106.465	1.080	
930.000	332790.797	6287111.590	1.080	
940.000	332797.394	6287119.106	1.080	
950.000	332803.991	6287126.622	1.080	
960.000	332810.587	6287134.137	1.080	
966.259	332814.716	6287138.841	1.080	
970.000	332818.214	6287140.167	1.080	
980.000	332827.565	6287143.713	1.250	
990.000	332836.915	6287147.259	1.574	
1000.000	332846.265	6287150.804	1.901	
1003.050	332849.117	6287151.886	2.000	
1010.000	332852.780	6287157.792	2.000	
1014.192	332854.990	6287161.355		

PRELIMINARY
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ISSUED FOR INFORMATION ONLY

Hornsby Shire Council
Design & Construction Branch
TELEPHONE: (02) 9847 6666
FACSIMILE: (02) 9847 6999

Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH	Design Checked-Design Team Leader: Signed:
Drawn: S. COMISH	Drawing Checked: Signed:
Surveyor: M. LAWTON	NA Field Book / NA Level Book / AHD Datum
Project Identifier\:-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg	
TRIM Document Number: XXX	

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

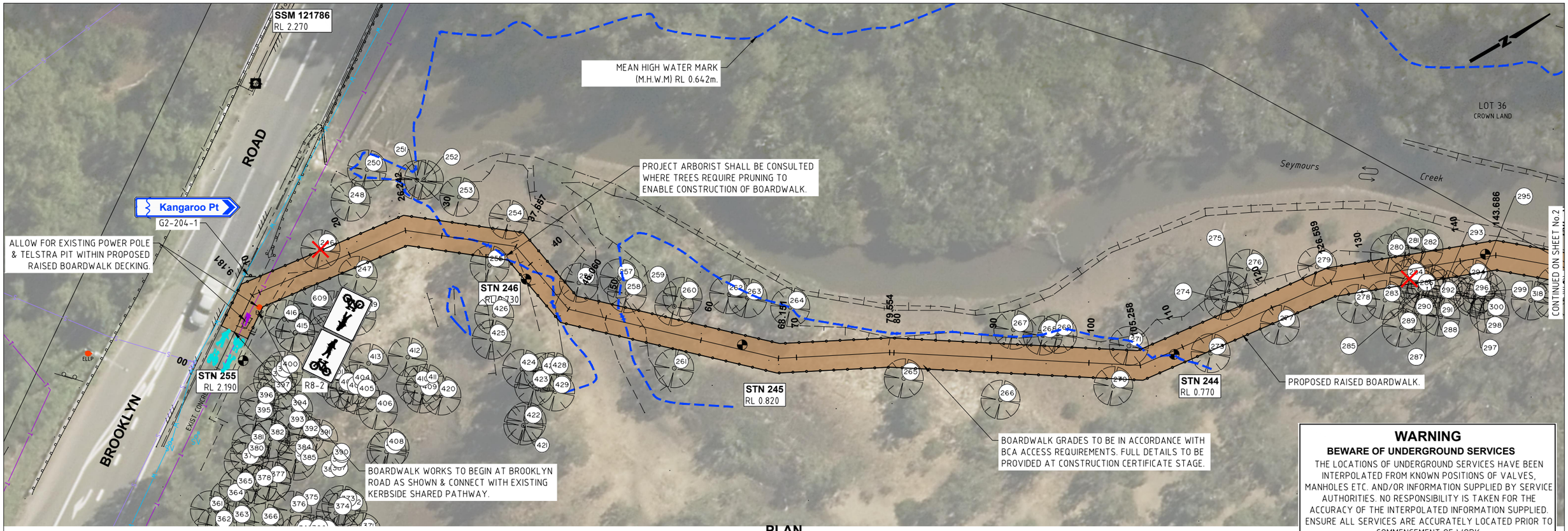
Bar Scales: 0 5 10 15 20 25m
SCALE 1:500 @ A1
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CONTROL LINE 1 SETOUT DETAILS
SHEET 2 OF 2

Project Number: 100277
Sheet 7 of 30
Issue 2
HSC Drawing Number: 29.31



WARNING

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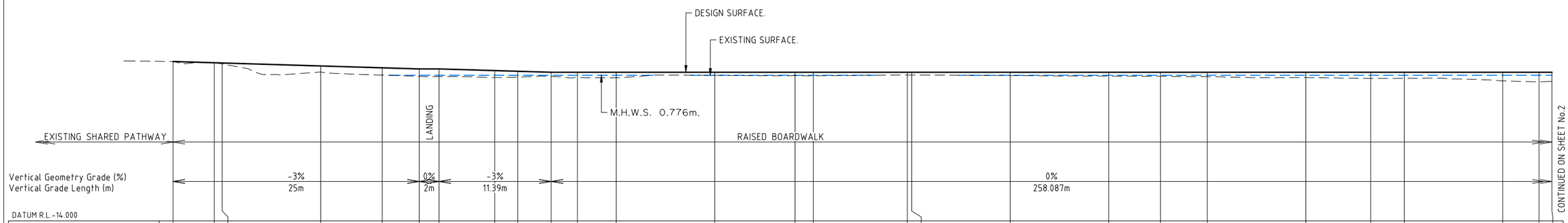
PLAN

SCALE 1:200



DATUM R.L.-14.000

CUT / FILL DEPTH TO EXISTING	0.000	0.022	-0.103	-0.625	-0.740	-0.758	-0.779	-0.706	-0.588	-0.426	-0.514	-0.552	-0.313	-0.341	-0.356	-0.278	-0.280	-0.327	-0.387	-0.405	-0.458	-0.532	-0.629	-0.620	-0.870	-0.970	-0.924
CONTROL LINE FINISHED LEVEL	2.172	2.046	2.022	1.722	1.534	1.422	1.422	1.252	1.182	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080
EXISTING SURFACE LEVEL	2.172	2.068	1.919	1.096	0.794	0.664	0.643	0.546	0.594	0.654	0.566	0.528	0.767	0.739	0.724	0.802	0.800	0.753	0.693	0.675	0.622	0.548	0.451	0.460	0.210	0.110	0.156
CONTROL LINE CHAINAGE	5	9.181	10	20	26.242	30	32	37.657	40	43.39	46.06	50	60	68.151	70	79.554	80	90	100	105.258	110	120	125.589	130	140	143.686	145

LONGITUDINAL SECTION - ALIGN CL1

SCALE 1:200 NATURAL

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Hornsby Shire Council
Design & Construction Branch

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Authorised for release - Manager Design & Construction
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Designer	S. COMISH
Design Checked-Design Team Leader	Signed:
Drawn	S. COMISH
Drawing Checked	Signed:
Surveyor	M. LAWTON
Field Book	NA
Level Book	NA
Datum	AHD
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Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

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Bar Scales
0 2 4 6 8 10m
SCALE 1:200 @ A1
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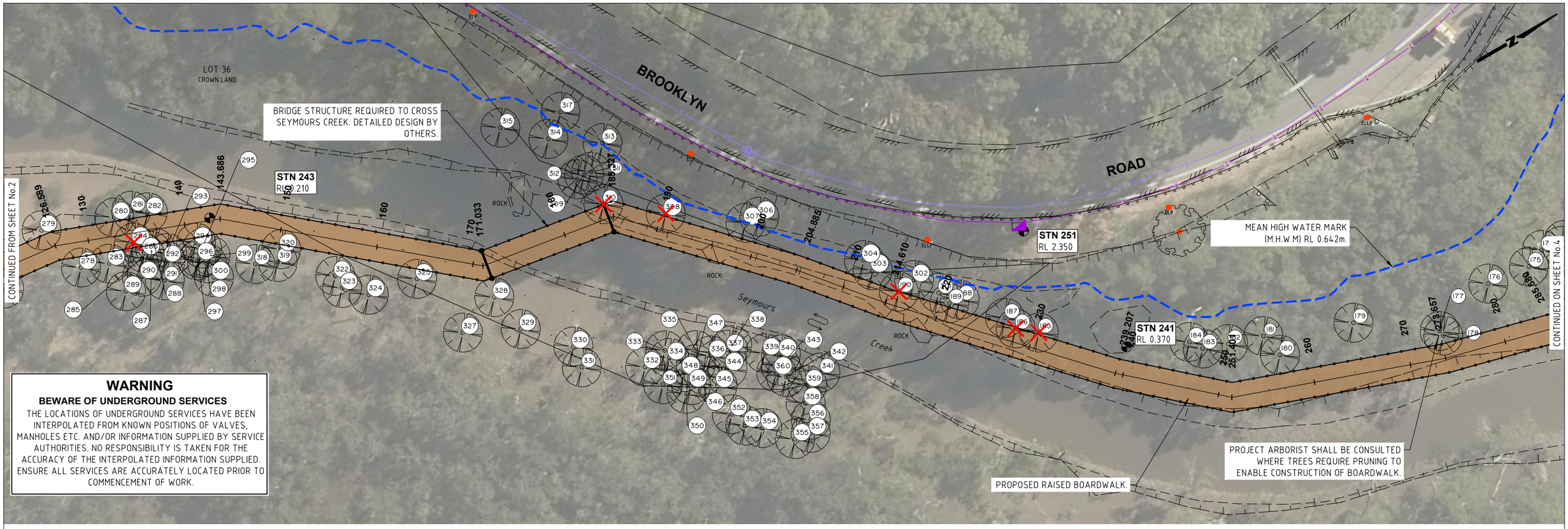
HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

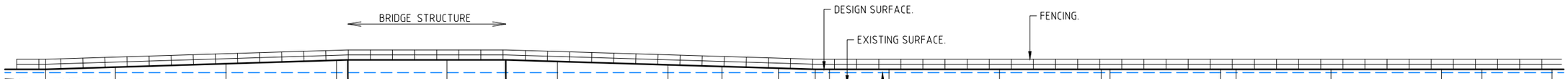
GENERAL WORKS & SERVICES PLAN
PLAN 1 OF 8

Project Number **100277**
Sheet **8** of **30**
Issue **2**
HSC Drawing Number **29.31**



PLAN

SCALE 1:200



Vertical Geometry Grade (%): 3.07% 27.35m; 0% 14.3m; -3% 28m; 0%

DATUM R.L.-14.000

CUT / FILL DEPTH TO EXISTING	-0.970	-1.223	-1.702	-1.939	-1.958	-2.616	-2.148	-1.998	-1.795	-1.648	-1.555	-1.418	-1.338	-1.226	-1.145	-1.167	-1.170	-1.195	-1.207	-1.197	-1.140	-1.198	-1.131			
CONTROL LINE FINISHED LEVEL	1.080	1.274	1.581	1.888	1.920	1.920	1.920	1.780	1.480	1.333	1.180	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080			
EXISTING SURFACE LEVEL	0.110	0.051	0.121	0.051	0.038	-0.696	-0.228	-0.218	-0.266	-0.315	-0.375	-0.338	-0.258	-0.146	-0.065	-0.087	-0.090	-0.115	-0.127	-0.117	-0.060	-0.118	-0.051			
CONTROL LINE CHAINAGE	143.686	150	160	170	171.033	180	185.327	190	200	204.885	210	213.327	214.61	220	230	239.207	240	250	251.401	260	270	273.657	280			

LONGITUDINAL SECTION - ALIGN CL1

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Drawn: S. COMISH — Drawing Checked — Signed:
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HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK SEYMOURS CREEK TO KANGAROO POINT

GENERAL WORKS & SERVICES PLAN PLAN 2 OF 8

Project Number: 100277
Sheet 9 of 30
Issue 2
HSC Drawing Number: 29.31

WARNING

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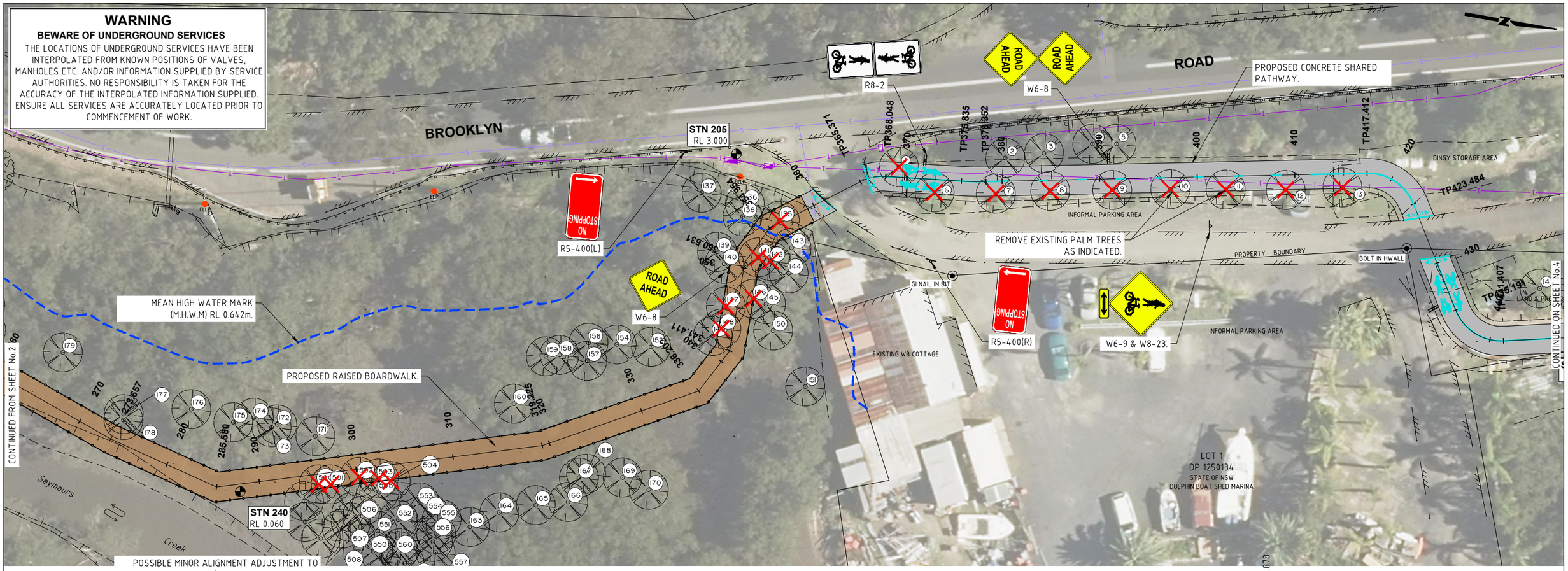
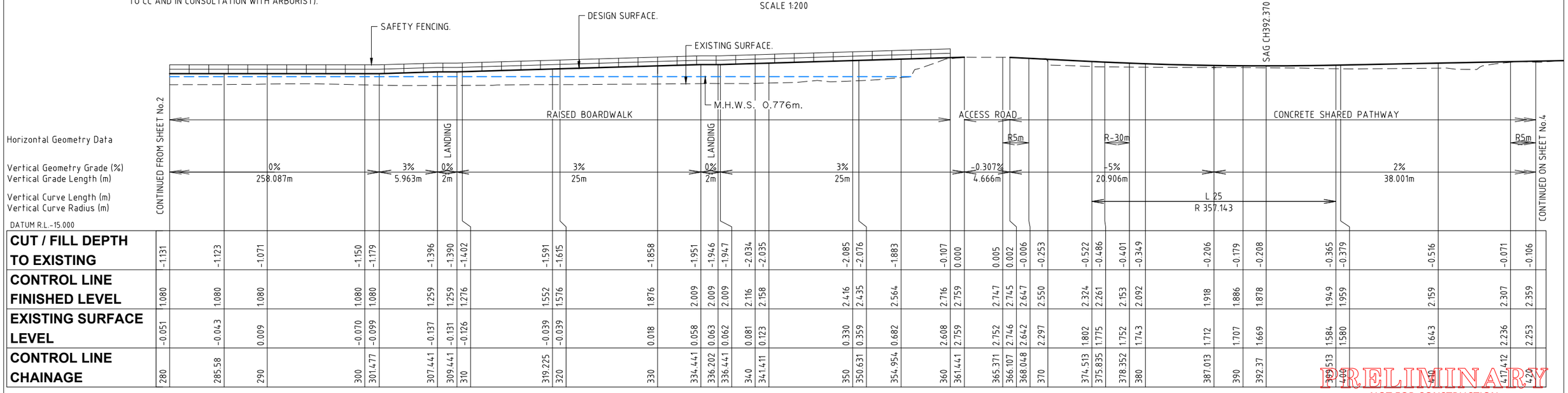


PLAN

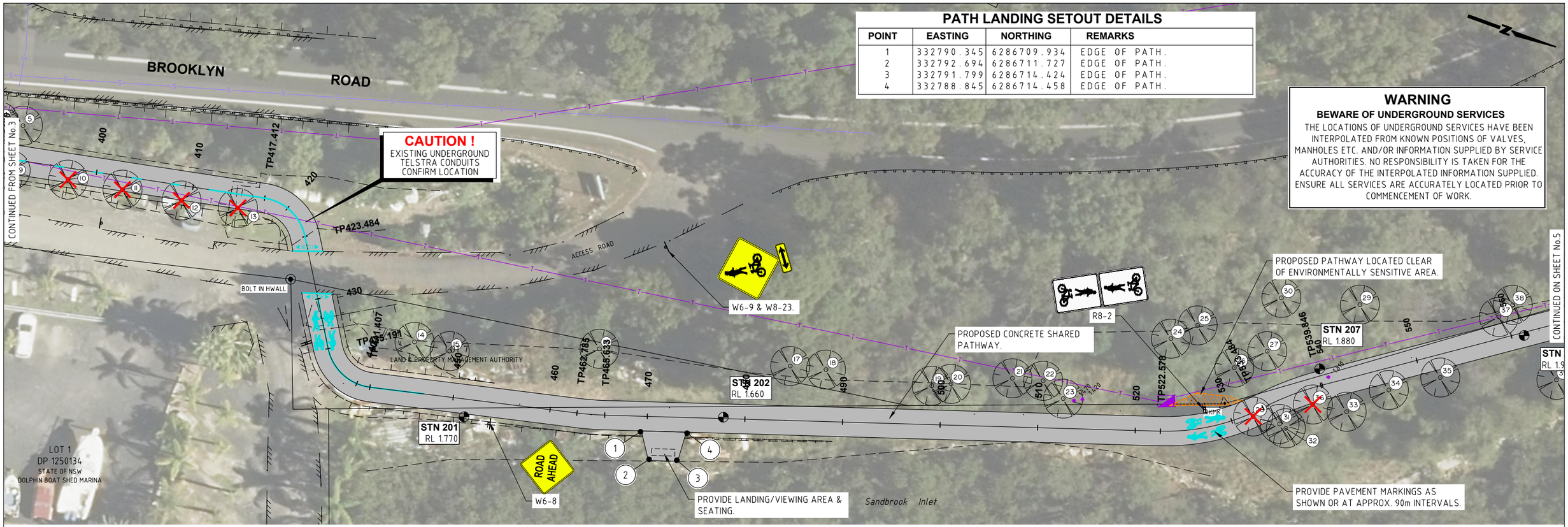
SCALE 1:200



| | | |

PATH LANDING SETOUT DETAILS

POINT	EASTING	NORTHING	REMARKS
1	332790.345	6286709.934	EDGE OF PATH.
2	332792.694	6286711.727	EDGE OF PATH.
3	332791.799	6286714.424	EDGE OF PATH.
4	332788.845	6286714.458	EDGE OF PATH.



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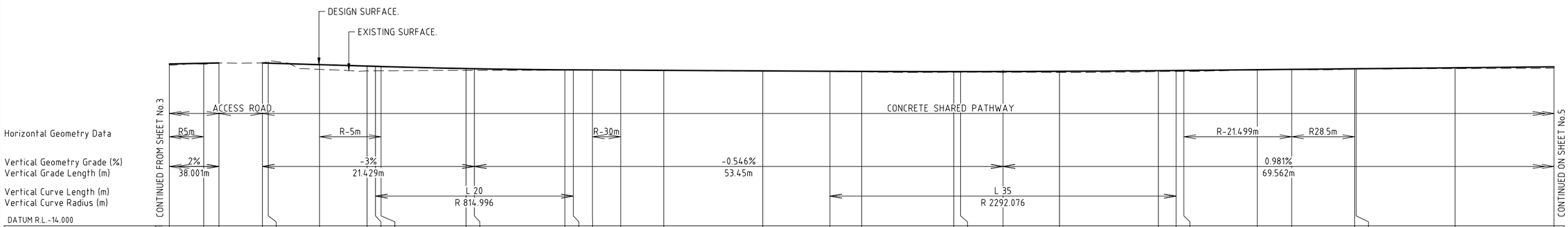

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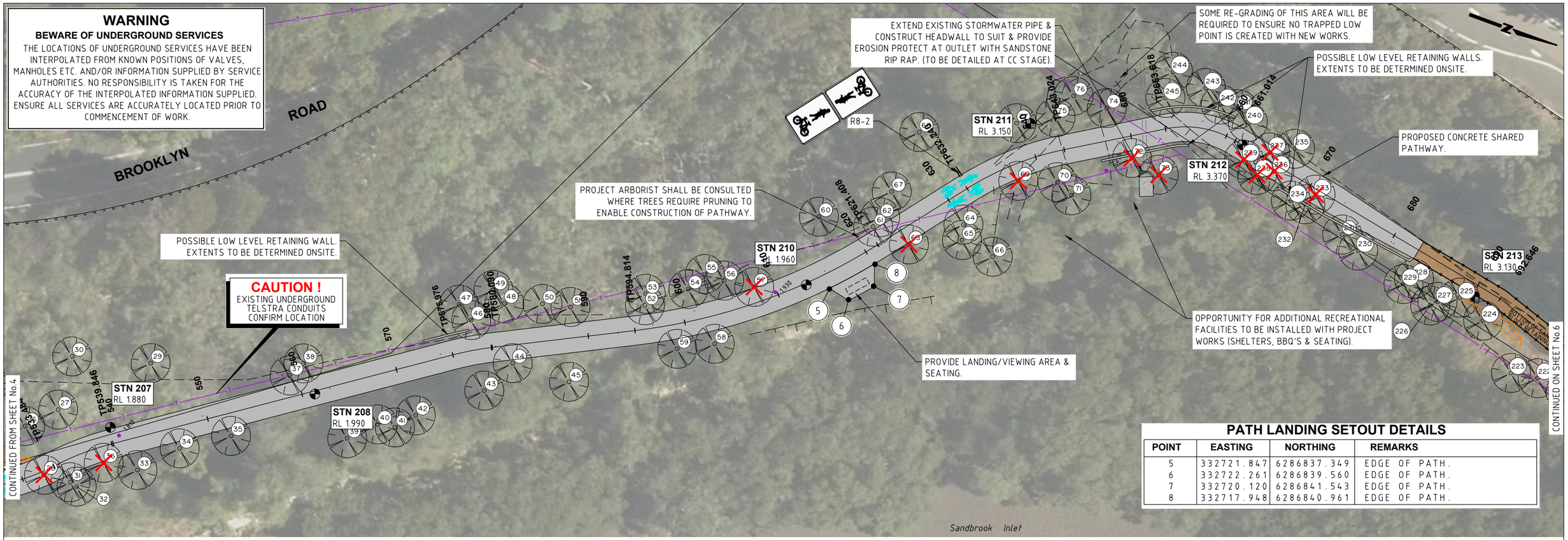
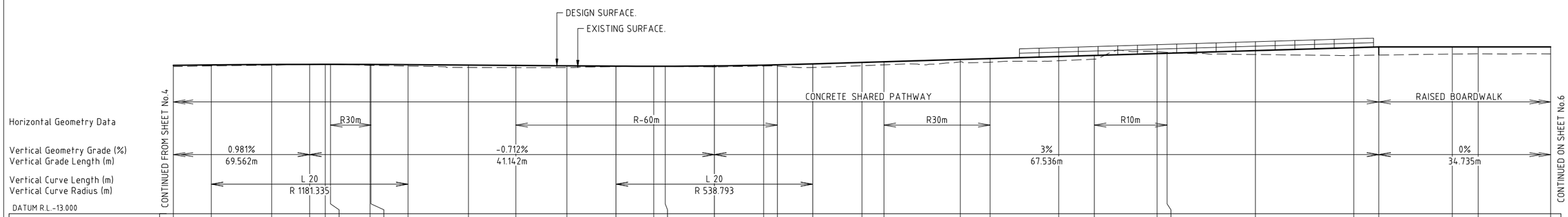


PATH LANDING SETOUT DETAILS

POINT	EASTING	NORTHING	REMARKS
5	332721.847	6286837.349	EDGE OF PATH.
6	332722.261	6286839.560	EDGE OF PATH.
7	332720.120	6286841.543	EDGE OF PATH.
8	332717.948	6286840.961	EDGE OF PATH.

PLAN

SCALE 1:200



CUT / FILL DEPTH TO EXISTING	-0.127	-0.103	-0.074	0.004	0.016	0.003	-0.096	-0.098	-0.143	-0.239	-0.224	-0.183	-0.041	-0.002	-0.012	-0.090	-0.096	-0.135	-0.363	-0.335	-0.309	-0.242	-0.378	-0.434	-0.380	0.182	0.097	-0.402	-0.783	-0.833	-0.731	-0.699	-0.709
CONTROL LINE FINISHED LEVEL	2.074	2.112	2.156	2.167	2.168	2.168	2.160	2.159	2.138	2.095	2.060	2.024	1.988	1.974	1.976	2.010	2.090	2.121	2.217	2.367	2.434	2.667	2.758	2.967	3.075	3.267	3.297	3.567	3.867	3.943	3.943	3.943	3.943
EXISTING SURFACE LEVEL	1.947	2.008	2.082	2.172	2.185	2.172	2.064	2.061	1.996	1.856	1.836	1.841	1.947	1.972	1.963	1.920	1.994	1.986	1.854	2.032	2.125	2.425	2.380	2.533	2.695	3.449	3.394	3.165	3.084	3.110	3.212	3.244	3.234
CONTROL LINE CHAINAGE	560	563.857	570	573.857	575.446	575.976	580	580.09	583.857	590	594.814	600	604.999	608.835	610	614.999	620	621.408	624.999	630	632.24	640	643.024	650	653.618	660	661.014	670	680	692.535	690	692.646	700

LONGITUDINAL SECTION - ALIGN CL1

SCALE 1:200 NATURAL

PRELIMINARY
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Hornsby Shire Council Design & Construction Branch

TELEPHONE: (02) 9847 6666
FACSIMILE: (02) 9847 6999

Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

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Surveyor: M. LAWTON — NA Field Book — NA Level Book — AHD Datum
Project Identifier\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg
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Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

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Bar Scales: 0 2 4 6 8 10m — SCALE 1:200 @ A1
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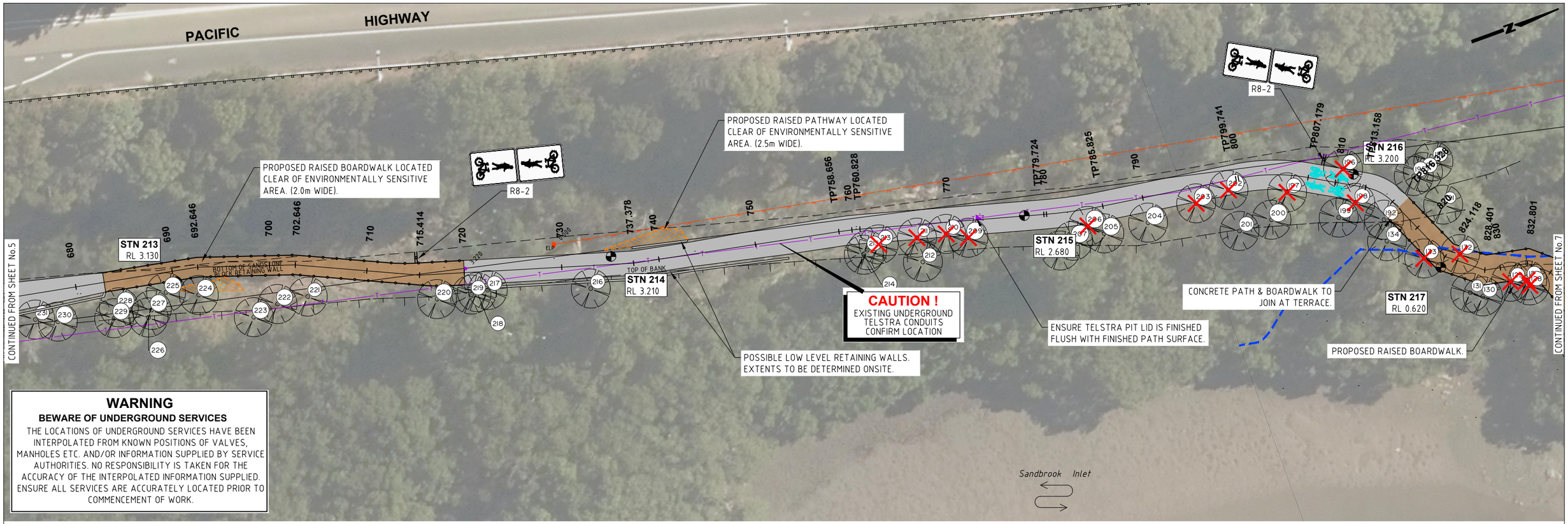
HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

GENERAL WORKS & SERVICES PLAN
PLAN 5 OF 8

Project Number: 100277
Sheet 12 of 30
Issue 2
HSC Drawing Number: 29.31



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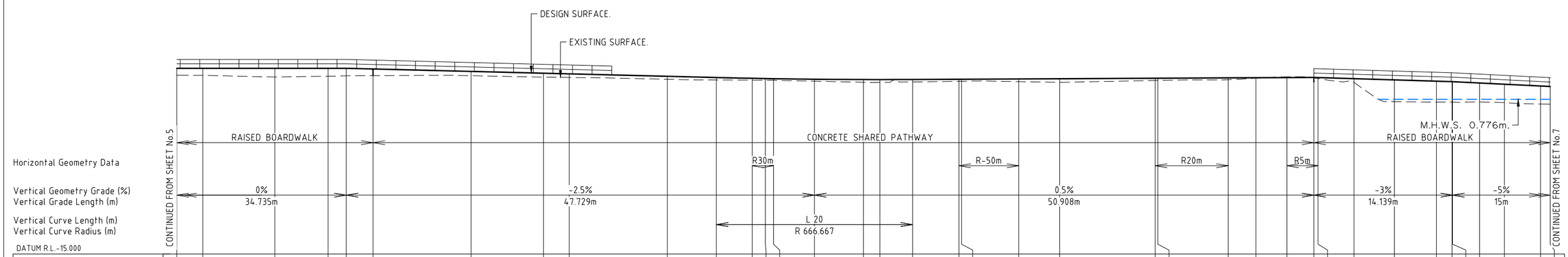
PLAN

SCALE 1:200



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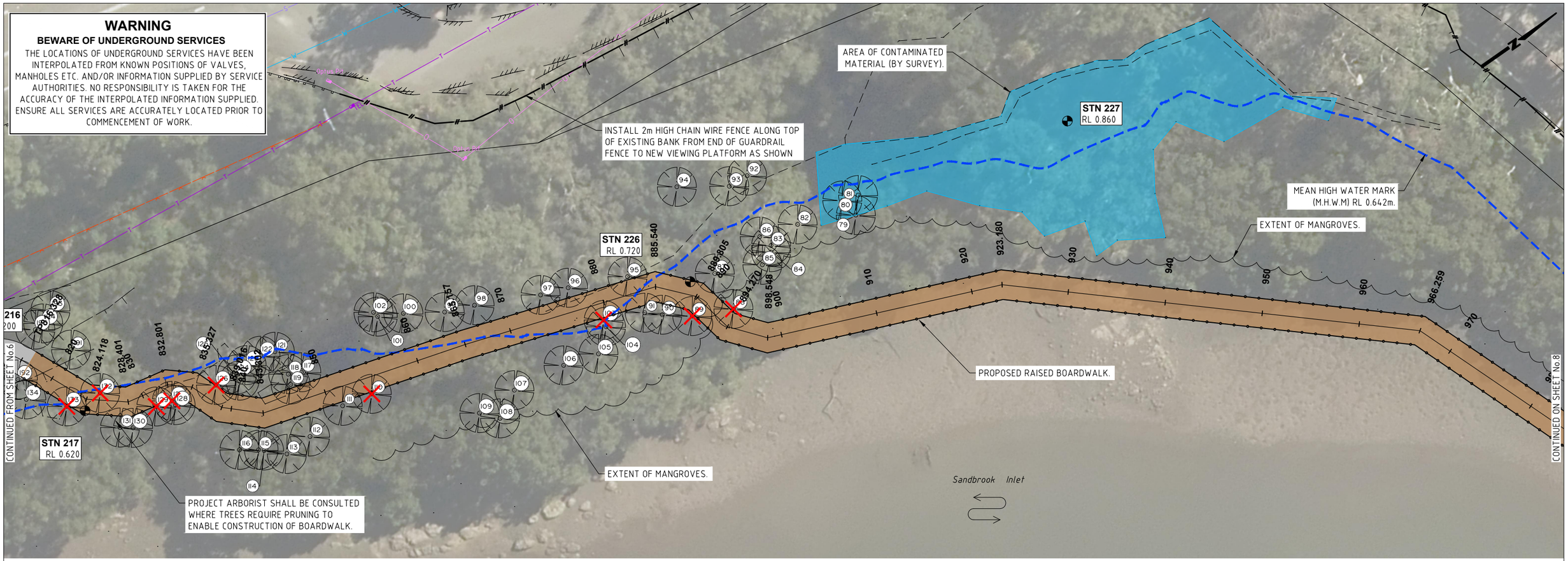

PLAN

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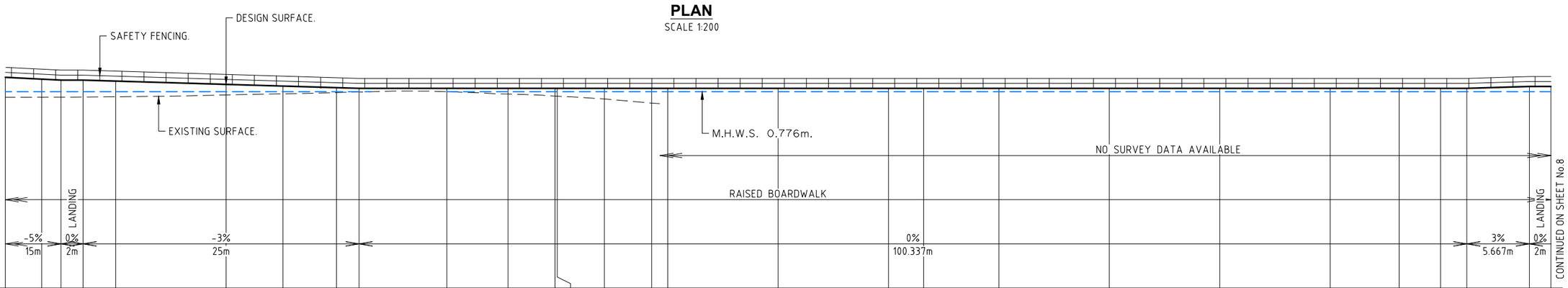

Vertical Geometry Grade (%): -5% | 0% | -3% | 0% | 3% | 0%

Vertical Grade Length (m): 15m | 2m | 25m | 100.337m | 5.667m | 2m

DATUM R.L.-17.000

CUT / FILL DEPTH TO EXISTING	-1.801	-1.638	-1.542	-1.535	-1.421	-0.958	-0.697	-0.443	-0.334	-0.304	-0.511	-0.698	-0.711	-0.965	-1.337																
CONTROL LINE FINISHED LEVEL	2.082	1.917	1.830	1.830	1.741	1.441	1.287	1.141	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.250	1.250			
EXISTING SURFACE LEVEL	0.281	0.280	0.288	0.295	0.320	0.483	0.589	0.698	0.746	0.776	0.569	0.382	0.369	0.115	-0.257																
CONTROL LINE CHAINAGE	840	843.302	845.046	847.046	850	860	865.157	870	872.046	880	885.54	889.805	890	894.27	898.548	900	910	920	923.18	930	940	950	960	966.259	970	972.383	979.05	980			

LONGITUDINAL SECTION - ALIGN CL1

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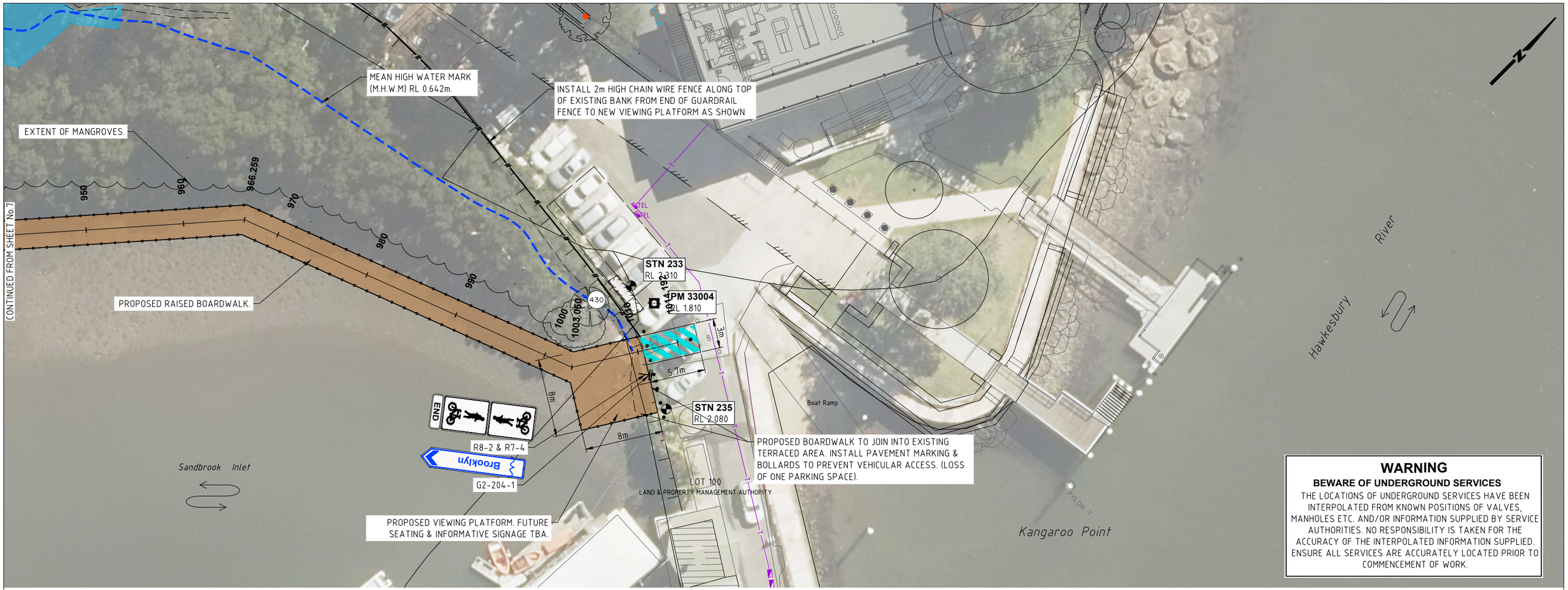
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

GENERAL WORKS & SERVICES PLAN
PLAN 7 OF 8

Project Number: 100277
Sheet 14 of 30
Issue 2
HSC Drawing Number: 29.31



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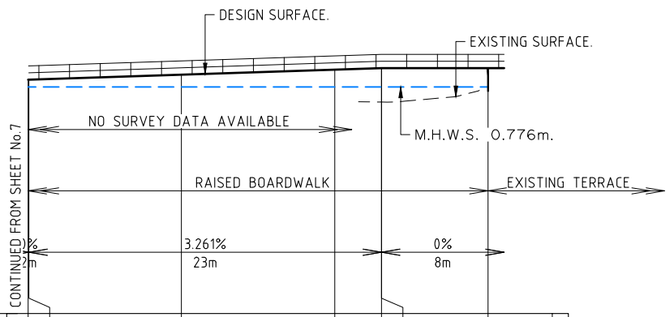
PLAN

SCALE 1:200



DATUM R.L.-15.000

CUT / FILL DEPTH TO EXISTING					-2.208	-2.208			
CONTROL LINE FINISHED LEVEL	1.250	1.250	1.574	1.901	2.000	2.000	2.000		
EXISTING SURFACE LEVEL					-0.208	-0.208			
CONTROL LINE CHAINAGE	980	980.05	990	1000	1003.05	1003.05	1010	1014.192	

LONGITUDINAL SECTION - ALIGN CL1

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Hornsby Shire Council Design & Construction Branch

TELEPHONE: (02) 9847 6666
FACSIMILE: (02) 9847 6999

Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH	Design Checked-Design Team Leader Signed:
Drawn: S. COMISH	Drawing Checked Signed:
Surveyor: M. LAWTON	NA Field Book / NA Level Book / AHD Datum
Project Identifier\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg	
TRIM Document Number: XXX	

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

Bar Scales: 0 2 4 6 8 10m
SCALE 1:200 @ A1
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

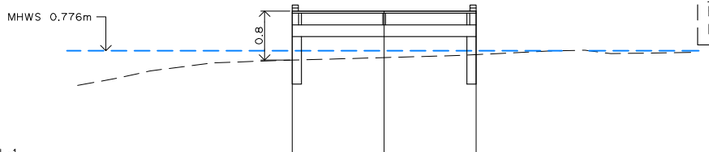
HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK SEYMOURS CREEK TO KANGAROO POINT

GENERAL WORKS & SERVICES PLAN PLAN 8 OF 8

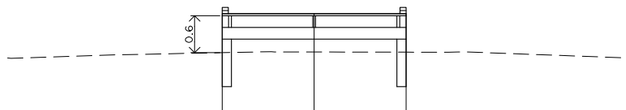
Project Number: **100277**
Sheet **15** of **30**
Issue **2**
HSC Drawing Number: **29.31**

NOTE:
BOARDWALK SHOWN ON CROSS SECTIONS IS INDICATIVE ONLY. ACTUAL STRUCTURE WILL VARY.



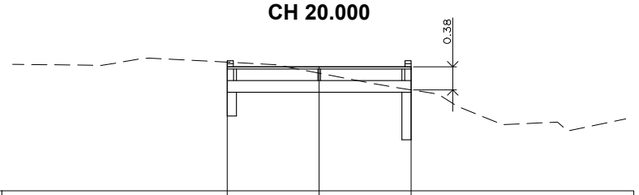
DESIGN LEVELS	1.422	1.422	1.422
EXISTING LEVELS	0.623	0.664	0.712
OFFSET	-1.500	0.000	1.500

CH 30.000



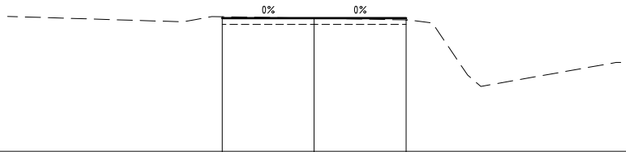
DESIGN LEVELS	1.722	1.722	1.722
EXISTING LEVELS	1.085	1.096	1.094
OFFSET	-1.500	0.000	1.500

CH 20.000



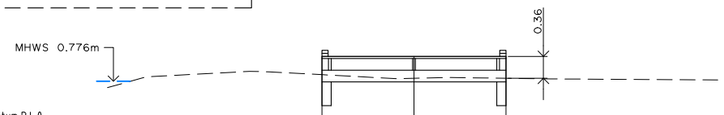
DESIGN LEVELS	2.022	2.022	2.022
EXISTING LEVELS	2.098	1.919	1.646
OFFSET	-1.500	0.000	1.500

CH 10.000



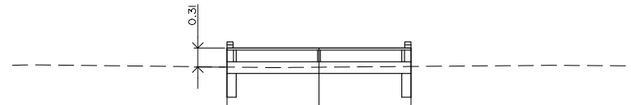
DESIGN LEVELS	2.172	2.172	2.172
EXISTING LEVELS	2.196	2.172	2.140
OFFSET	-1.500	0.000	1.500

CH 5.000



DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.782	0.724	0.723
OFFSET	-1.500	0.000	1.500

CH 70.000

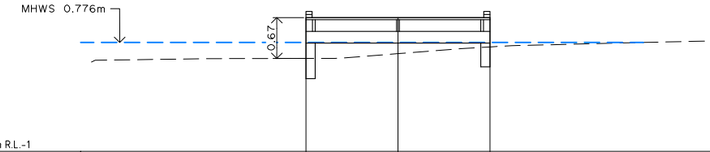


DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.769	0.767	0.779
OFFSET	-1.500	0.000	1.500

CH 60.000

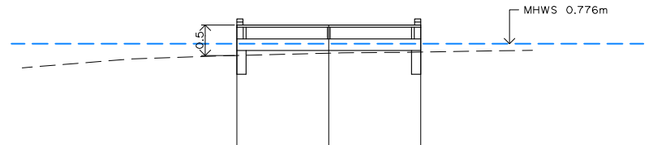
DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.548	0.528	0.531
OFFSET	-1.500	0.000	1.500

CH 50.000



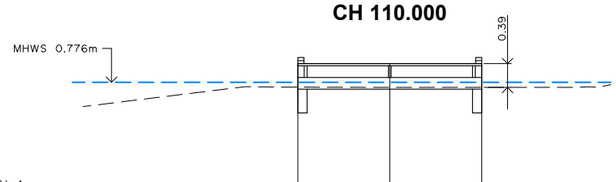
DESIGN LEVELS	1.182	1.182	1.182
EXISTING LEVELS	0.516	0.594	0.703
OFFSET	-1.500	0.000	1.500

CH 40.000



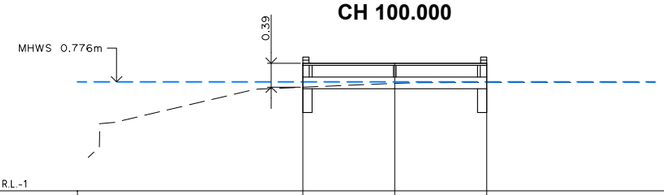
DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.584	0.622	0.640
OFFSET	-1.500	0.000	1.500

CH 110.000



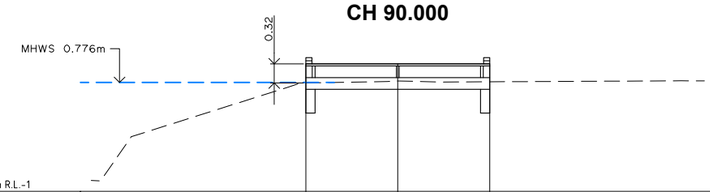
DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.697	0.693	0.693
OFFSET	-1.500	0.000	1.500

CH 100.000



DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.690	0.753	0.767
OFFSET	-1.500	0.000	1.500

CH 90.000



DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.767	0.800	0.787
OFFSET	-1.500	0.000	1.500

CH 80.000

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TRIM Document Number: XXX

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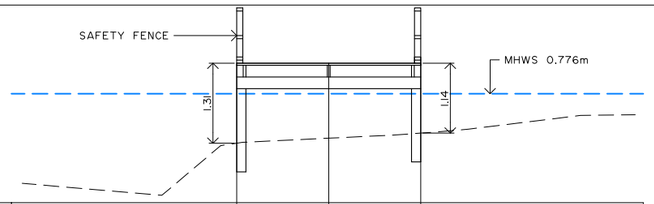
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH5.000 TO CH110.000

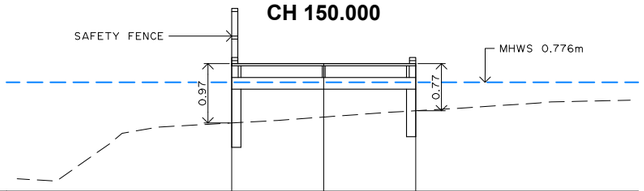
Project Number: 100277
Sheet 16 of 30
Issue 2
HSC Drawing Number: 29.31



Datum R.L.-1

DESIGN LEVELS	1.274	1.274	1.274
EXISTING LEVELS	-0.031	0.051	0.134
OFFSET	-1.500	0.000	1.500

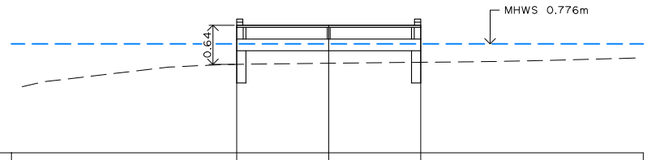
CH 150.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.113	0.210	0.312
OFFSET	-1.500	0.000	1.500

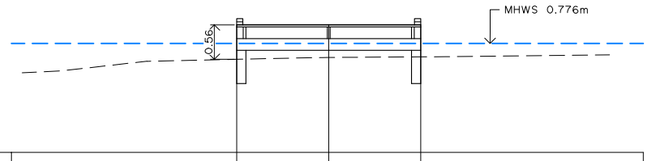
CH 140.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.442	0.460	0.476
OFFSET	-1.500	0.000	1.500

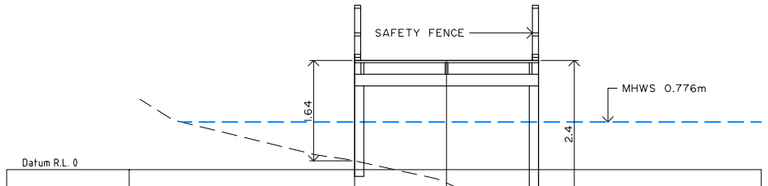
CH 130.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.518	0.548	0.558
OFFSET	-1.500	0.000	1.500

CH 120.000



Datum R.L. 0

DESIGN LEVELS	1.780	1.780	1.780
EXISTING LEVELS	0.143	-0.218	-0.617
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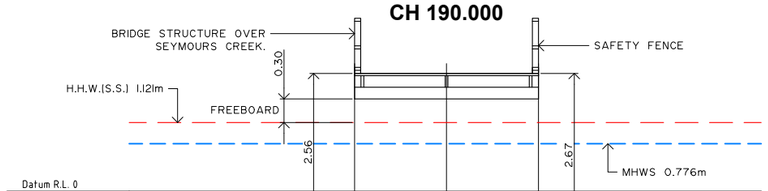
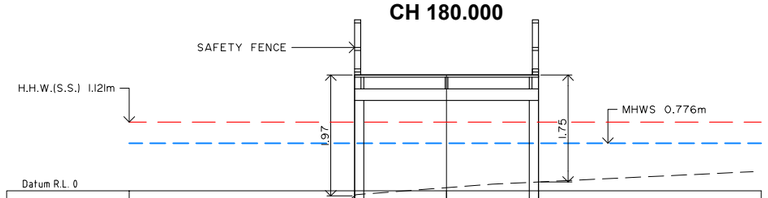
CH 190.000



Datum R.L. 0

DESIGN LEVELS	1.920	1.920	1.920
EXISTING LEVELS	-0.642	-0.696	-0.743
OFFSET	-1.500	0.000	1.500

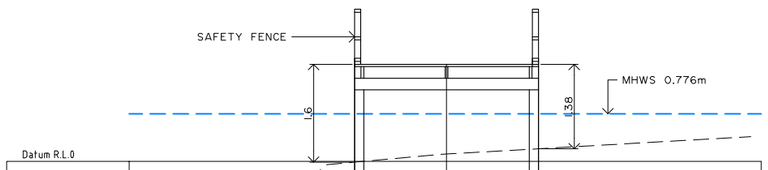
CH 180.000



Datum R.L. 0

DESIGN LEVELS	1.888	1.888	1.888
EXISTING LEVELS	-0.082	0.051	0.145
OFFSET	-1.500	0.000	1.500

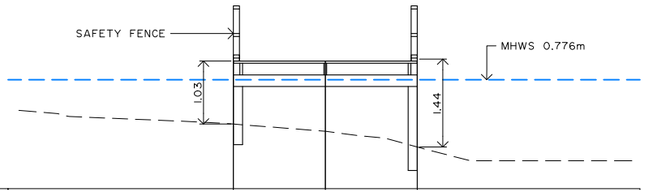
CH 170.000



Datum R.L.0

DESIGN LEVELS	1.581	1.581	1.581
EXISTING LEVELS	-0.012	0.121	0.206
OFFSET	-1.500	0.000	1.500

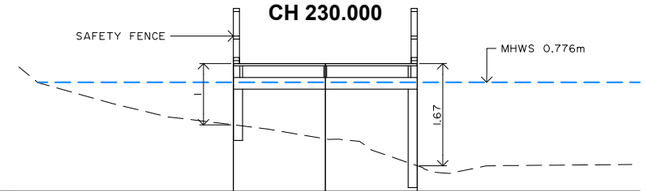
CH 160.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.053	-0.065	-0.321
OFFSET	-1.500	0.000	1.500

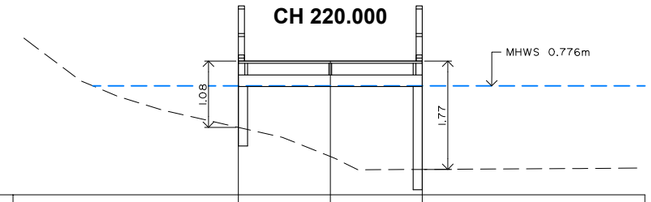
CH 230.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.083	-0.146	-0.585
OFFSET	-1.500	0.000	1.500

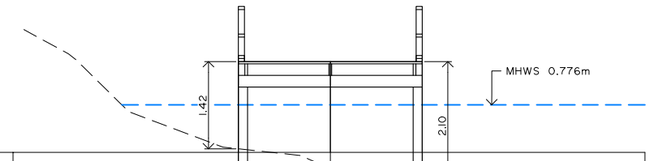
CH 220.000



Datum R.L.-1

DESIGN LEVELS	1.180	1.180	1.180
EXISTING LEVELS	0.100	-0.375	-0.586
OFFSET	-1.500	0.000	1.500

CH 210.000



Datum R.L. 0

DESIGN LEVELS	1.480	1.480	1.480
EXISTING LEVELS	0.058	-0.266	-0.615
OFFSET	-1.500	0.000	1.500

CH 200.000

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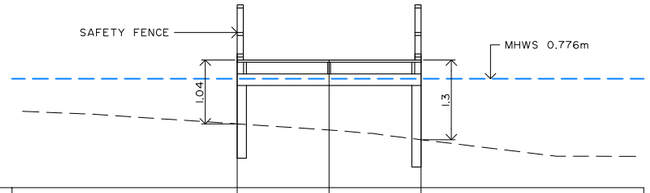
BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH120.000 TO CH230.000

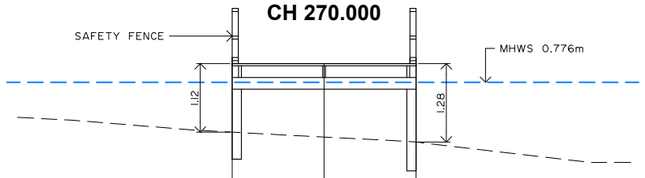
Project Number: 100277
Sheet 17 of 30
Issue 2
HSC Drawing Number: 29.31



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.040	-0.060	-0.218
OFFSET	-1.500	0.000	1.500

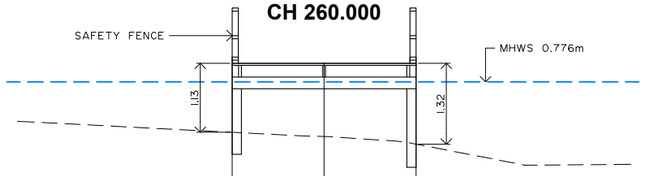
CH 270.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	-0.037	-0.117	-0.197
OFFSET	-1.500	0.000	1.500

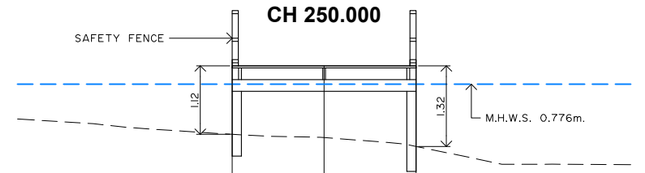
CH 260.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	-0.046	-0.115	-0.239
OFFSET	-1.500	0.000	1.500

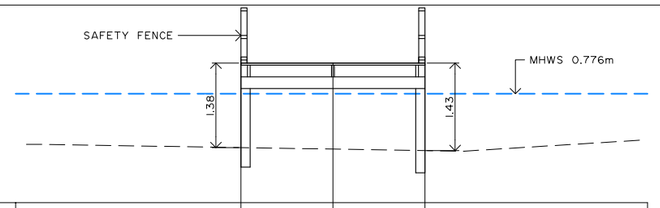
CH 250.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	-0.036	-0.090	-0.234
OFFSET	-1.500	0.000	1.500

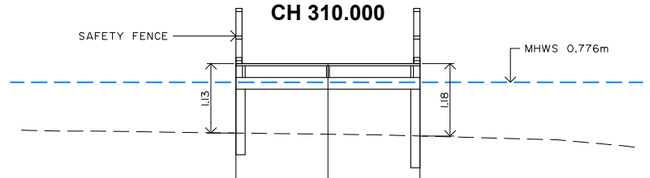
CH 240.000



Datum R.L.-1

DESIGN LEVELS	1.276	1.276	1.276
EXISTING LEVELS	-0.102	-0.126	-0.151
OFFSET	-1.500	0.000	1.500

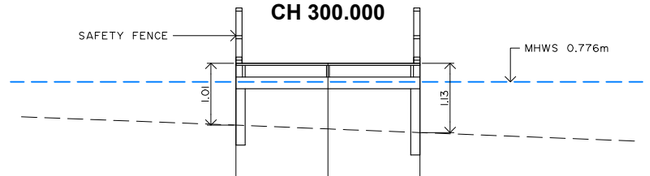
CH 310.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	-0.051	-0.070	-0.099
OFFSET	-1.500	0.000	1.500

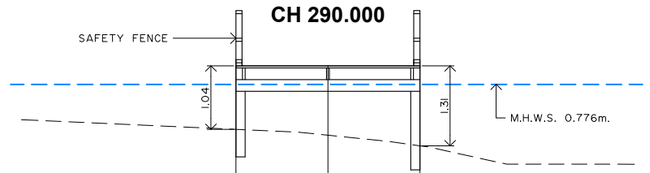
CH 300.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.071	0.009	-0.050
OFFSET	-1.500	0.000	1.500

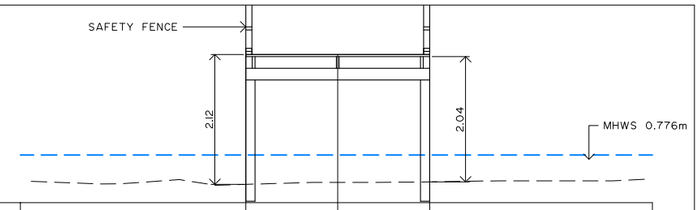
CH 290.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.045	-0.051	-0.224
OFFSET	-1.500	0.000	1.500

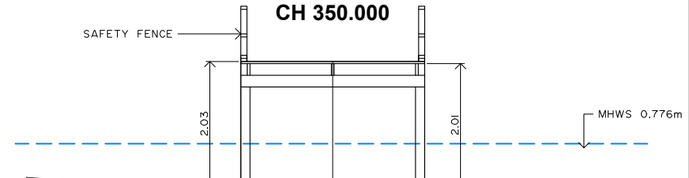
CH 280.000



Datum R.L.-0.00

DESIGN LEVELS	2.416	2.416	2.416
EXISTING LEVELS	0.298	0.330	0.339
OFFSET	-1.500	0.000	1.500

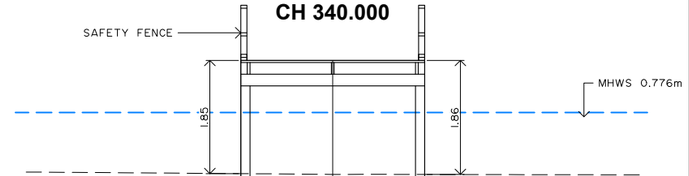
CH 350.000



Datum R.L.-0.0

DESIGN LEVELS	2.116	2.116	2.116
EXISTING LEVELS	0.087	0.081	0.071
OFFSET	-1.500	0.000	1.500

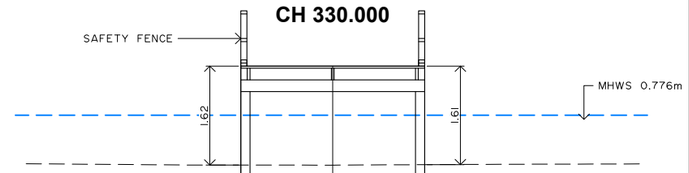
CH 340.000



Datum R.L. -0.5

DESIGN LEVELS	1.876	1.876	1.876
EXISTING LEVELS	0.031	0.018	0.017
OFFSET	-1.500	0.000	1.500

CH 330.000



Datum R.L.-0.5

DESIGN LEVELS	1.576	1.576	1.576
EXISTING LEVELS	-0.038	-0.039	-0.031
OFFSET	-1.500	0.000	1.500

CH 320.000

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Hornsby Shire Council
Design & Construction Branch
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FACSIMILE: (02) 9847 6999

Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH	Design Checked-Design Team Leader Signed:		
Drawn: S. COMISH	Drawing Checked Signed:		
Surveyor: M. LAWTON	NA Field Book	NA Level Book	AHD Datum
Project Identifier\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg			
TRIM Document Number: XXX			

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

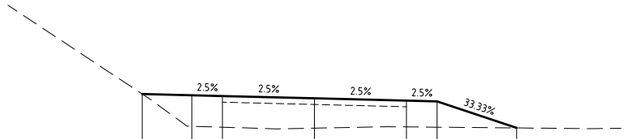
Bar Scales
0 1 2 3m
SCALE 1:50 @ A1
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH240.000 TO CH350.000

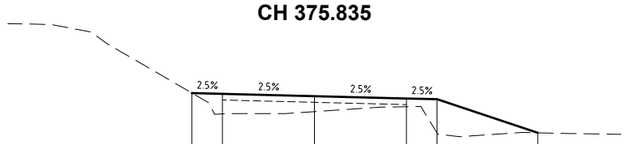
Project Number: 100277
Sheet 18 of 30
Issue 2
HSC Drawing Number: 29.31



Datum R.L.1

DESIGN LEVELS	2.331	2.311	2.298	2.261	2.223	2.211	1.778
EXISTING LEVELS	2.331	1.805	1.790	1.775	1.795	1.790	1.778
OFFSET	-2.809	-2.000	-1.500	0.000	1.500	2.000	3.297

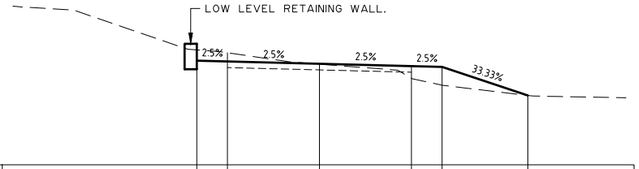
CH 375.835



Datum R.L.1

DESIGN LEVELS	2.600	2.587	2.550	2.512	2.500	1.952
EXISTING LEVELS	2.602	2.262	2.297	2.378	1.949	1.952
OFFSET	-2.000	-1.500	0.000	1.500	2.000	3.642

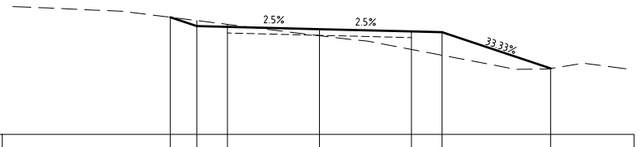
CH 370.000



Datum R.L.1

DESIGN LEVELS	2.697	2.685	2.647	2.610	2.597	2.131
EXISTING LEVELS	2.873	2.827	2.642	2.410	2.299	2.131
OFFSET	-2.000	-1.500	0.000	1.500	2.000	3.399

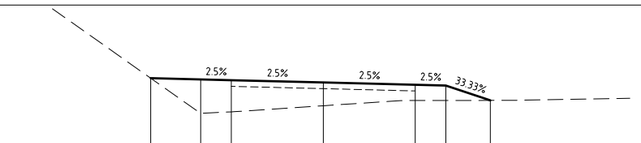
CH 368.048



Datum R.L.1

DESIGN LEVELS	2.909	2.765	2.753	2.716	2.678	2.665	2.075
EXISTING LEVELS	2.909	2.856	2.794	2.608	2.385	2.289	2.075
OFFSET	-2.432	-2.000	-1.500	0.000	1.500	2.000	3.772

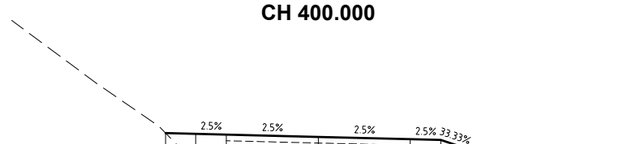
CH 360.000



Datum R.L.0

DESIGN LEVELS	2.029	2.009	1.996	1.959	1.921	1.909	1.667
EXISTING LEVELS	2.029	1.457	1.481	1.580	1.665	1.666	1.667
OFFSET	-2.814	-2.000	-1.500	0.000	1.500	2.000	2.726

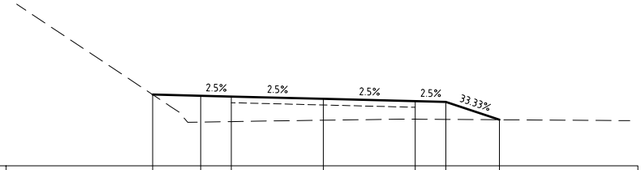
CH 400.000



Datum R.L.1

DESIGN LEVELS	1.948	1.936	1.923	1.886	1.848	1.836	1.709
EXISTING LEVELS	1.948	1.685	1.694	1.707	1.711	1.710	1.709
OFFSET	-2.489	-2.000	-1.500	0.000	1.500	2.000	2.381

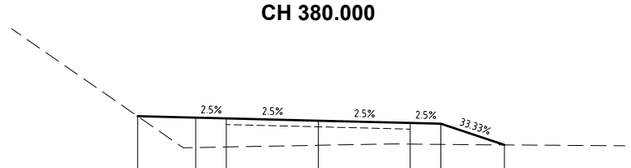
CH 390.000



Datum R.L.1

DESIGN LEVELS	2.161	2.142	2.130	2.092	2.055	2.042	1.751
EXISTING LEVELS	2.161	1.713	1.721	1.743	1.760	1.757	1.751
OFFSET	-2.783	-2.000	-1.500	0.000	1.500	2.000	2.873

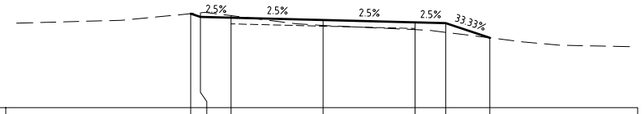
CH 380.000



Datum R.L.1

DESIGN LEVELS	2.226	2.203	2.190	2.153	2.115	2.103	1.758
EXISTING LEVELS	2.226	1.716	1.725	1.752	1.771	1.766	1.758
OFFSET	-2.9464	-2.000	-1.500	0.000	1.500	2.000	3.036

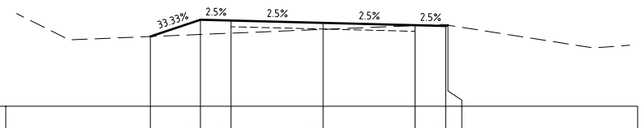
CH 378.352



Datum R.L.1

DESIGN LEVELS	2.532	2.479	2.466	2.429	2.391	2.379	2.139
EXISTING LEVELS	2.532	2.547	2.500	2.339	2.272	2.227	2.139
OFFSET	-2.159	-2.000	-1.500	0.000	1.500	2.000	2.719

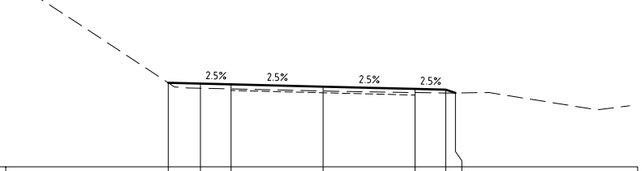
CH 423.484



Datum R.L.1

DESIGN LEVELS	2.137	2.409	2.396	2.359	2.321	2.309	2.321
EXISTING LEVELS	2.137	2.170	2.191	2.253	2.315	2.327	2.321
OFFSET	-2.817	-2.000	-1.500	0.000	1.500	2.000	2.037

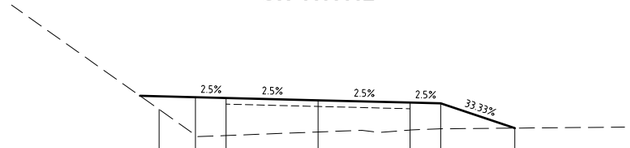
CH 420.000



Datum R.L.1

DESIGN LEVELS	2.370	2.357	2.345	2.307	2.270	2.257	2.204
EXISTING LEVELS	2.370	2.281	2.270	2.236	2.210	2.202	2.204
OFFSET	-2.526	-2.000	-1.500	0.000	1.500	2.000	2.160

CH 417.412



Datum R.L.1

DESIGN LEVELS	2.011	2.209	2.196	2.159	2.121	2.109	1.706
EXISTING LEVELS	2.011	1.592	1.585	1.643	1.674	1.694	1.706
OFFSET	-2.593	-2.000	-1.500	0.000	1.500	2.000	2.209

CH 410.000

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Hornsby Shire Council
Design & Construction Branch
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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH	Design Checked-Design Team Leader Signed:		
Drawn: S. COMISH	Drawing Checked Signed:		
Surveyor: M. LAWTON	NA Field Book	NA Level Book	AHD Datum
Project Identifier\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg			
TRIM Document Number: XXX			

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

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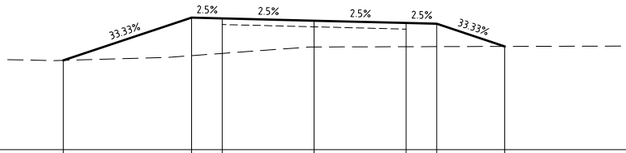
Bar Scales
0 1 2 3m
SCALE 1:50
@ A1
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH360.000 TO CH423.484

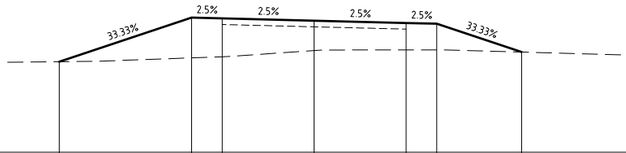
Project Number: 100277
Sheet 19 of 30
Issue 2
HSC Drawing Number: 29.31



Datum R.L.0

DESIGN LEVELS	1.455	2.153	2.140	2.103	2.065	2.053	1.683
EXISTING LEVELS	1.455	1.533	1.569	1.674	1.679	1.680	1.683
OFFSET	-4.092	-2.000	-1.500	0.000	1.500	2.000	3.109

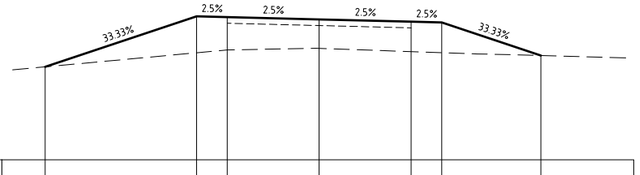
CH 441.407



Datum R.L.0

DESIGN LEVELS	1.476	2.195	2.182	2.145	2.107	2.095	1.633
EXISTING LEVELS	1.476	1.539	1.557	1.657	1.668	1.669	1.633
OFFSET	-4.157	-2.000	-1.500	0.000	1.500	2.000	3.384

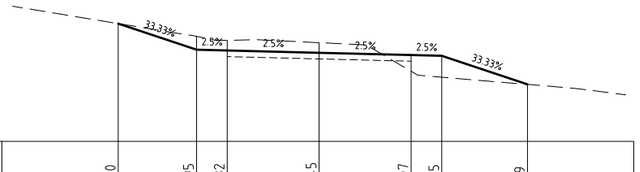
CH 440.000



Datum R.L.0

DESIGN LEVELS	1.516	2.339	2.327	2.289	2.252	2.239	1.700
EXISTING LEVELS	1.516	1.745	1.791	1.817	1.764	1.747	1.700
OFFSET	-4.469	-2.000	-1.500	0.000	1.500	2.000	3.616

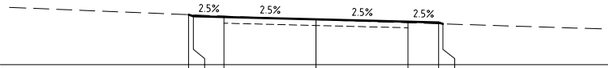
CH 435.191



Datum R.L.1

DESIGN LEVELS	2.920	2.495	2.482	2.445	2.407	2.395	1.929
EXISTING LEVELS	2.920	2.713	2.648	2.610	2.143	2.046	1.929
OFFSET	-3.277	-2.000	-1.500	0.000	1.500	2.000	3.398

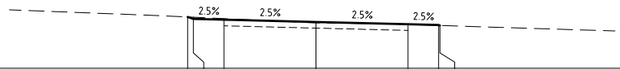
CH 430.000



Datum R.L.1

DESIGN LEVELS	1.815	1.789	1.776	1.739	1.701	1.689	1.665	
EXISTING LEVELS	1.815	1.812	1.792	1.732	1.683	1.667	1.665	
OFFSET	-2.079	-2.000	-1.500	0.000	1.500	2.000	2.071	

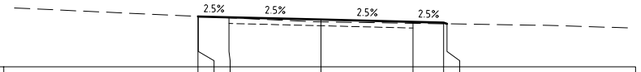
CH 465.633



Datum R.L.1

DESIGN LEVELS	1.836	1.804	1.792	1.754	1.717	1.704	1.697	
EXISTING LEVELS	1.836	1.831	1.808	1.741	1.713	1.698	1.697	
OFFSET	-2.094	-2.000	-1.500	0.000	1.500	2.000	2.022	

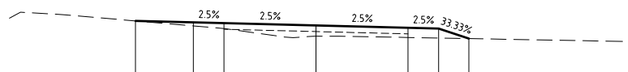
CH 462.785



Datum R.L.1

DESIGN LEVELS	1.822	1.820	1.807	1.770	1.732	1.720	1.701	
EXISTING LEVELS	1.822	1.822	1.799	1.733	1.710	1.702	1.701	
OFFSET	-2.007	-2.000	-1.500	0.000	1.500	2.000	2.056	

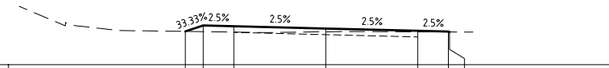
CH 460.000



Datum R.L.1

DESIGN LEVELS	1.970	1.946	1.934	1.896	1.859	1.846	1.682	
EXISTING LEVELS	1.970	1.889	1.845	1.720	1.700	1.691	1.682	
OFFSET	-2.943	-2.000	-1.500	0.000	1.500	2.000	2.494	

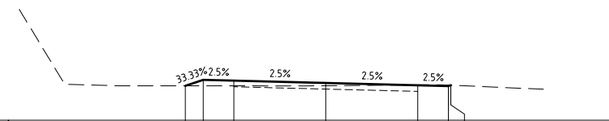
CH 450.000



Datum R.L.1

DESIGN LEVELS	1.542	1.639	1.627	1.589	1.552	1.539	1.533	
EXISTING LEVELS	1.542	1.538	1.531	1.536	1.535	1.533	1.533	
OFFSET	-2.291	-2.000	-1.500	0.000	1.500	2.000	2.019	

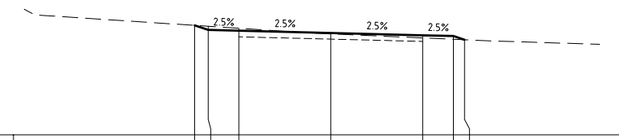
CH 500.000



Datum R.L.1

DESIGN LEVELS	1.561	1.658	1.646	1.608	1.571	1.558	1.571	
EXISTING LEVELS	1.561	1.561	1.560	1.563	1.576	1.573	1.571	
OFFSET	-2.292	-2.000	-1.500	0.000	1.500	2.000	2.039	

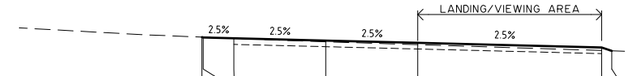
CH 490.000



Datum R.L.0

DESIGN LEVELS	1.784	1.710	1.698	1.660	1.623	1.610	1.550	
EXISTING LEVELS	1.784	1.770	1.737	1.646	1.580	1.558	1.550	
OFFSET	-2.222	-2.000	-1.500	0.000	1.500	2.000	2.181	

CH 480.000



Datum R.L.1

DESIGN LEVELS	1.771	1.765	1.752	1.715	1.677	1.602	1.548	
EXISTING LEVELS	1.771	1.771	1.750	1.695	1.648	1.553	1.548	
OFFSET	-2.019	-2.000	-1.500	0.000	1.500	4.500	4.684	

CH 470.000

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Design & Construction Branch
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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer	S. COMISH
Drawn	S. COMISH
Surveyor	M. LAWTON
Design Checked-Design Team Leader	Signed:
Drawing Checked	Signed:
Field Book	NA
Level Book	NA
Datum	AHD
Project Identifier\-\CAD File Name	H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg
TRIM Document Number	XXX

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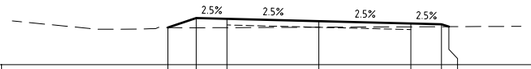
BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH430.000 TO CH500.000

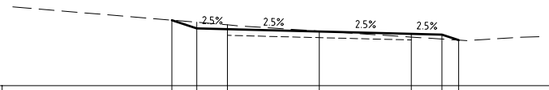
Project Number: 100277
Sheet 20 of 30
Issue 2
HSC Drawing Number: 29.31



Datum R.L.1

DESIGN LEVELS	1.605	1.759	1.747	1.709	1.672	1.659	1.619	
EXISTING LEVELS	1.605	1.601	1.604	1.610	1.617	1.619	1.619	
OFFSET	-2.463	-2.000	-1.500	0.000	1.500	2.000	2.120	

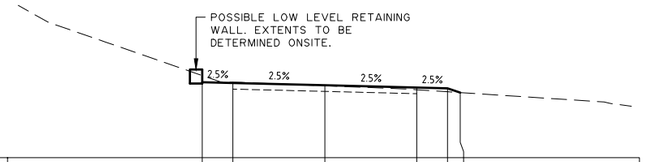
CH 522.578



Datum R.L.1

DESIGN LEVELS	2.068	1.933	1.920	1.883	1.845	1.833	1.742	
EXISTING LEVELS	2.068	2.034	1.992	1.890	1.792	1.760	1.742	
OFFSET	-2.405	-2.000	-1.500	0.000	1.500	2.000	2.271	

CH 540.000



Datum R.L.1

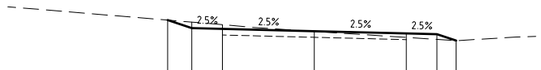
DESIGN LEVELS	2.230	2.218	2.180	2.143	2.130	2.061	
EXISTING LEVELS	2.339	2.229	2.172	2.107	2.075	2.061	
OFFSET	-2.000	-1.500	0.000	1.500	2.000	2.208	

CH 575.976

Datum R.L.1

DESIGN LEVELS	1.518	1.734	1.722	1.684	1.647	1.634	1.605	
EXISTING LEVELS	1.518	1.537	1.556	1.596	1.602	1.605	1.605	
OFFSET	-2.650	-2.000	-1.500	0.000	1.500	2.000	2.088	

CH 520.000



Datum R.L.1

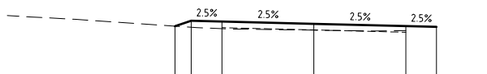
DESIGN LEVELS	2.062	1.931	1.919	1.881	1.844	1.831	1.727	
EXISTING LEVELS	2.062	2.030	1.988	1.877	1.780	1.748	1.727	
OFFSET	-2.393	-2.000	-1.500	0.000	1.500	2.000	2.312	

CH 539.846

Datum R.L.1

DESIGN LEVELS	2.251	2.216	2.204	2.166	2.129	2.116	1.923	
EXISTING LEVELS	2.251	2.243	2.202	2.082	1.987	1.957	1.923	
OFFSET	-2.105	-2.000	-1.500	0.000	1.500	2.000	2.579	

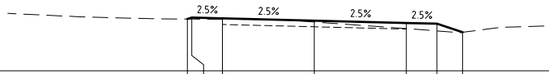
CH 570.000



Datum R.L.0

DESIGN LEVELS	1.576	1.664	1.652	1.614	1.577	1.564		
EXISTING LEVELS	1.576	1.557	1.535	1.511	1.504			
OFFSET	-2.265	-2.000	-1.500	0.000	1.500	2.000		

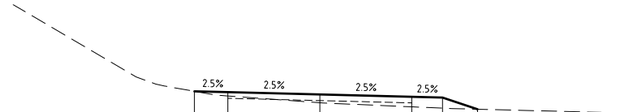
CH 510.000



Datum R.L.1

DESIGN LEVELS	1.845	1.868	1.855	1.818	1.780	1.768	1.629	
EXISTING LEVELS	1.845	1.844	1.842	1.796	1.689	1.651	1.629	
OFFSET	-2.070	-2.000	-1.500	0.000	1.500	2.000	2.417	

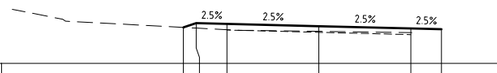
CH 533.484



Datum R.L.1

DESIGN LEVELS	2.133	2.120	2.082	2.045	2.032	1.841	
EXISTING LEVELS	2.133	2.057	1.947	1.880	1.859	1.841	
OFFSET	-2.056	-1.500	0.000	1.500	2.000	2.572	

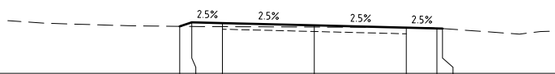
CH 560.000



Datum R.L.1

DESIGN LEVELS	1.587	1.657	1.644	1.607	1.569	1.557		
EXISTING LEVELS	1.587	1.576	1.549	1.523	1.502			
OFFSET	-2.210	-2.000	-1.500	0.000	1.500	2.000		

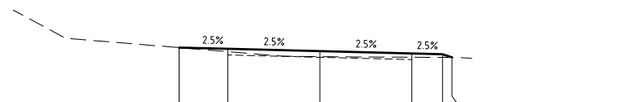
CH 508.356



Datum R.L.1

DESIGN LEVELS	1.768	1.833	1.821	1.783	1.746	1.733	1.731	
EXISTING LEVELS	1.768	1.766	1.762	1.756	1.750	1.738	1.731	
OFFSET	-2.197	-2.000	-1.500	0.000	1.500	2.000	2.090	

CH 530.000



Datum R.L.1

DESIGN LEVELS	2.039	2.020	1.982	1.945	1.932	1.880		
EXISTING LEVELS	2.039	1.974	1.892	1.884	1.881	1.880		
OFFSET	-2.295	-1.500	0.000	1.500	2.000	2.595		

CH 550.000

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Hornsby Shire Council
Design & Construction Branch
TELEPHONE: (02) 9847 6666
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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer	S. COMISH
Design Checked-Design Team Leader	Signed:
Drawn	S. COMISH
Drawing Checked	Signed:
Surveyor	M. LAWTON
Field Book	NA
Level Book	NA
Datum	AHD
Project Identifier\:\-\CAD File Name	H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg
TRIM Document Number	XXX

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

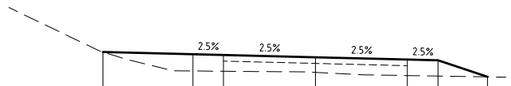
Bar Scales
0 1 2 3m
SCALE 1:50 @ A1
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH508.356 TO CH575.976

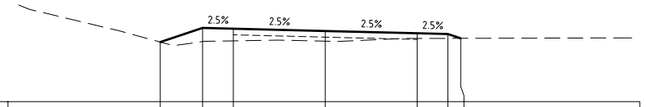
Project Number: 100277
Sheet 21 of 30
Issue 2
HSC Drawing Number: 29.31



Datum R.L.1

DESIGN LEVELS	2.169	2.132	2.120	2.082	2.045	2.032	1.763
EXISTING LEVELS	2.169	1.859	1.854	1.836	1.784	1.776	1.763
OFFSET	-3.466	-2.000	-1.500	0.000	1.500	2.000	2.808

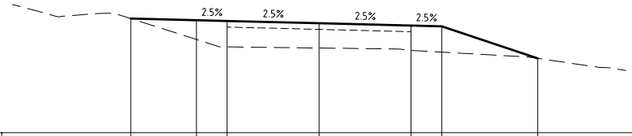
CH 594.814



Datum R.L.1

DESIGN LEVELS	1.972	2.202	2.190	2.152	2.115	2.102	2.033
EXISTING LEVELS	1.972	1.979	1.992	1.986	2.031	2.032	2.033
OFFSET	-2.690	-2.000	-1.500	0.000	1.500	2.000	2.209

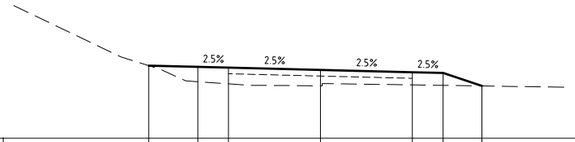
CH 621.408



Datum R.L.1

DESIGN LEVELS	2.861	2.834	2.821	2.784	2.746	2.734	2.211
EXISTING LEVELS	2.861	2.519	2.398	2.380	2.341	2.313	2.211
OFFSET	-3.071	-2.000	-1.500	0.000	1.500	2.000	3.568

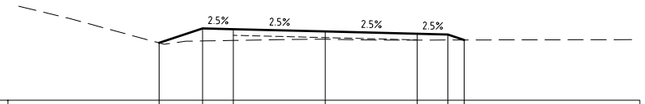
CH 643.024



Datum R.L.1

DESIGN LEVELS	2.184	2.164	2.152	2.114	2.077	2.064	1.853
EXISTING LEVELS	2.184	1.922	1.887	1.856	1.870	1.862	1.853
OFFSET	-2.801	-2.000	-1.500	0.000	1.500	2.000	2.633

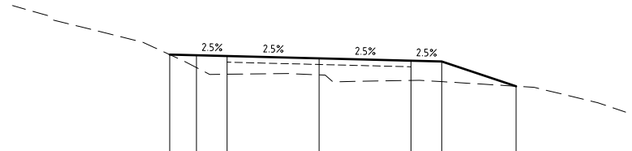
CH 590.000



Datum R.L.1

DESIGN LEVELS	1.935	2.171	2.159	2.121	2.084	2.071	1.982
EXISTING LEVELS	1.935	1.967	1.975	1.994	1.981	1.982	1.982
OFFSET	-2.710	-2.000	-1.500	0.000	1.500	2.000	2.267

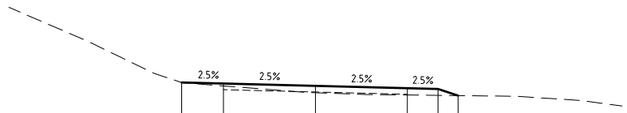
CH 620.000



Datum R.L.1

DESIGN LEVELS	2.755	2.744	2.731	2.694	2.656	2.644	2.239
EXISTING LEVELS	2.755	2.543	2.434	2.425	2.334	2.314	2.239
OFFSET	-2.435	-2.000	-1.500	0.000	1.500	2.000	3.214

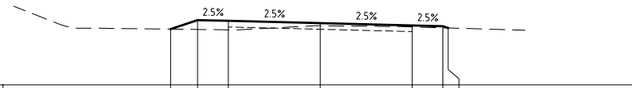
CH 640.000



Datum R.L.1

DESIGN LEVELS	2.227	2.211	2.173	2.136	2.123	2.014	
EXISTING LEVELS	2.227	2.172	2.061	2.024	2.018	2.014	
OFFSET	-2.182	-1.500	0.000	1.500	2.000	2.327	

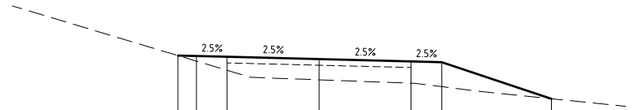
CH 580.090



Datum R.L.1

DESIGN LEVELS	1.908	2.056	2.043	2.006	1.968	1.956	1.927
EXISTING LEVELS	1.908	1.903	1.897	1.963	1.944	1.929	1.927
OFFSET	-2.442	-2.000	-1.500	0.000	1.500	2.000	2.086

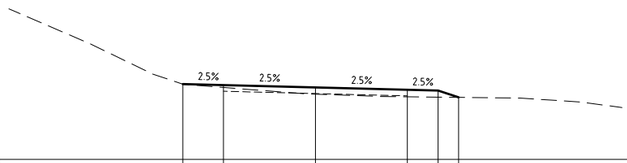
CH 610.000



Datum R.L.1

DESIGN LEVELS	2.521	2.513	2.500	2.463	2.425	2.413	1.816
EXISTING LEVELS	2.521	2.430	2.280	2.125	2.070	2.014	1.816
OFFSET	-2.302	-2.000	-1.500	0.000	1.500	2.000	3.790

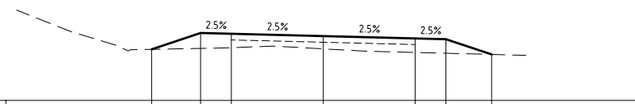
CH 632.240



Datum R.L.1

DESIGN LEVELS	2.227	2.211	2.174	2.136	2.124	2.012	
EXISTING LEVELS	2.227	2.174	2.064	2.021	2.015	2.012	
OFFSET	-2.163	-1.500	0.000	1.500	2.000	2.336	

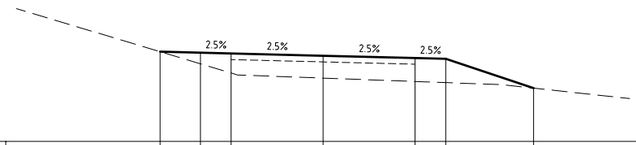
CH 580.000



Datum R.L.1

DESIGN LEVELS	1.832	2.098	2.086	2.048	2.011	1.998	1.749
EXISTING LEVELS	1.832	1.848	1.859	1.841	1.782	1.769	1.749
OFFSET	-2.798	-2.000	-1.500	0.000	1.500	2.000	2.748

CH 600.000



Datum R.L.1

DESIGN LEVELS	2.463	2.446	2.434	2.396	2.359	2.346	1.868
EXISTING LEVELS	2.463	2.265	2.115	2.032	1.977	1.959	1.868
OFFSET	-2.659	-2.000	-1.500	0.000	1.500	2.000	3.434

CH 630.000

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Hornsby Shire Council
Design & Construction Branch
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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH	Design Checked-Design Team Leader Signed:		
Drawn: S. COMISH	Drawing Checked Signed:		
Surveyor: M. LAWTON	NA Field Book	NA Level Book	AHD Datum
Project Identifier\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg			
TRIM Document Number: XXX			

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

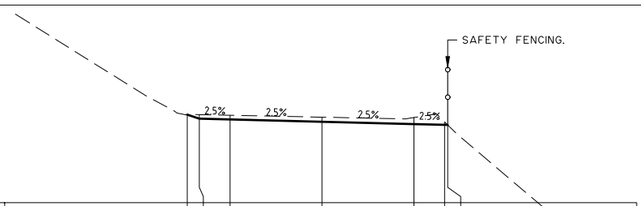
Bar Scales
0 1 2 3m
SCALE 1:50
@ A1
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH580.000 TO CH643.024

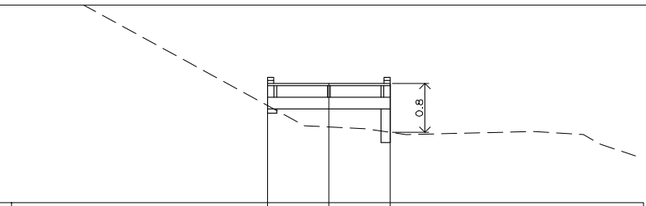
Project Number: 100277
Sheet 22 of 30
Issue 2
HSC Drawing Number: 29.31



Datum R.L.2

DESIGN LEVELS	3.435	3.369	3.356	3.319	3.281	3.269	3.267
EXISTING LEVELS	3.435	3.436	3.425	3.394	3.388	3.316	3.267
OFFSET	-2.198	-2.000	-1.500	0.000	1.500	2.000	2.049

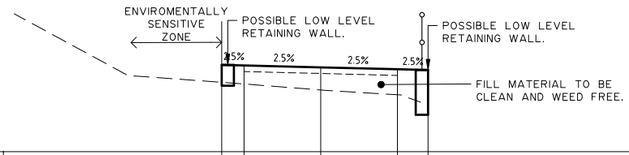
CH 661.014



Datum R.L.2

DESIGN LEVELS	3.943	3.943	3.943
EXISTING LEVELS	3.583	3.234	3.147
OFFSET	-1.000	0.000	1.000

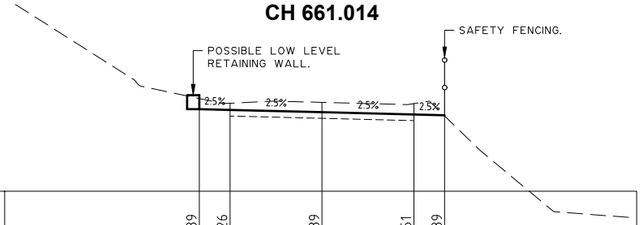
CH 700.000



Datum R.L.2

DESIGN LEVELS	3.425	3.412	3.375	3.343	3.331
EXISTING LEVELS	3.159	3.123	3.006	2.853	
OFFSET	-1.615	-1.250	0.000	1.250	1.750

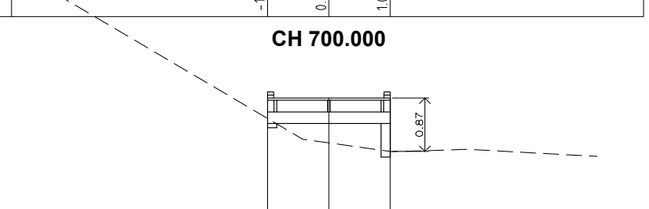
CH 740.000



Datum R.L.1

DESIGN LEVELS	3.339	3.326	3.289	3.251	3.239
EXISTING LEVELS	3.511	3.435	3.449	3.429	3.227
OFFSET	-2.000	-1.500	0.000	1.500	2.000

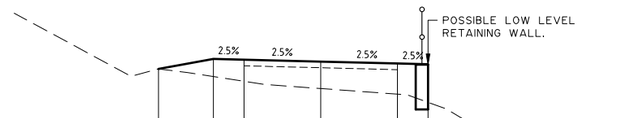
CH 660.000



Datum R.L.2

DESIGN LEVELS	3.943	3.943	3.943
EXISTING LEVELS	3.609	3.212	3.071
OFFSET	-1.000	0.000	1.000

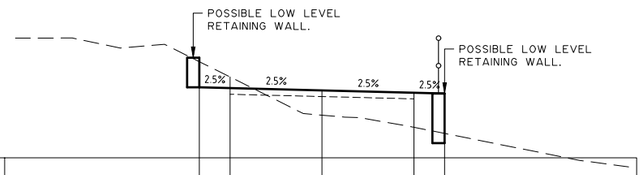
CH 690.000



Datum R.L.2

DESIGN LEVELS	3.505	3.668	3.656	3.625	3.593	3.581
EXISTING LEVELS	3.505	3.418	3.342	3.185	3.050	2.870
OFFSET	-2.645	-1.750	-1.250	0.000	1.250	1.750

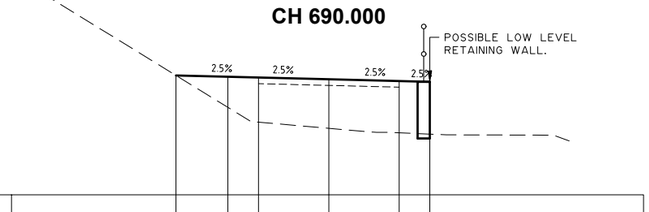
CH 730.000



Datum R.L.2

DESIGN LEVELS	3.149	3.136	3.099	3.061	3.049
EXISTING LEVELS	3.568	3.319	2.695	2.498	2.398
OFFSET	-2.000	-1.500	0.000	1.500	2.000

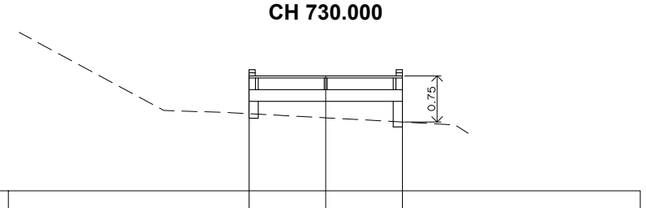
CH 653.618



Datum R.L.2

DESIGN LEVELS	3.946	3.925	3.913	3.884	3.855	3.843
EXISTING LEVELS	3.946	3.426	3.185	3.084	3.011	2.978
OFFSET	-2.493	-1.647	-1.147	0.000	1.147	1.647

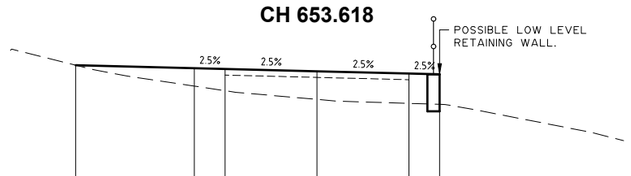
CH 680.000



Datum R.L.2

DESIGN LEVELS	3.875	3.875	3.875
EXISTING LEVELS	3.271	3.191	3.108
OFFSET	-1.250	0.000	1.250

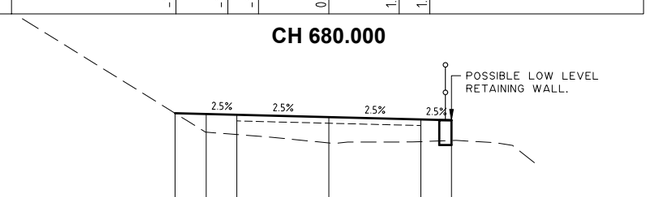
CH 720.000



Datum R.L.1

DESIGN LEVELS	3.089	3.041	3.029	2.991	2.954	2.941
EXISTING LEVELS	3.089	2.749	2.674	2.533	2.468	2.452
OFFSET	-3.936	-2.000	-1.500	0.000	1.500	2.000

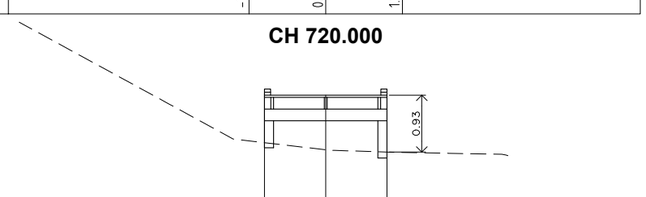
CH 650.000



Datum R.L.2

DESIGN LEVELS	3.649	3.636	3.624	3.586	3.549	3.536
EXISTING LEVELS	3.649	3.341	3.302	3.165	3.186	3.204
OFFSET	-2.508	-2.000	-1.500	0.000	1.500	2.000

CH 670.000



Datum R.L.2

DESIGN LEVELS	3.943	3.943	3.943
EXISTING LEVELS	3.169	3.054	3.017
OFFSET	-1.000	0.000	1.000

CH 710.000

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Design & Construction Branch
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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH	Design Checked-Design Team Leader Signed:		
Drawn: S. COMISH	Drawing Checked Signed:		
Surveyor: M. LAWTON	NA Field Book	NA Level Book	AHD Datum
Project Identifier\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg			
TRIM Document Number: XXX			

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

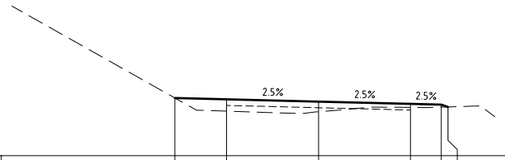
Bar Scales: 0 1 2 3m
SCALE 1:50 @ A1
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH650.000 TO CH740.000

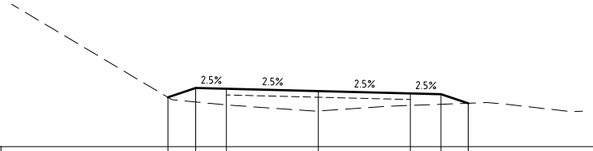
Project Number: 100277
Sheet 23 of 30
Issue 2
HSC Drawing Number: 29.31



Datum R.L.2

DESIGN LEVELS	2.940	2.919	2.882	2.844	2.832	2.795	
EXISTING LEVELS	2.940	2.726	2.716	2.787	2.791	2.795	
OFFSET	-2.341	-1.500	0.000	1.500	2.000	2.111	

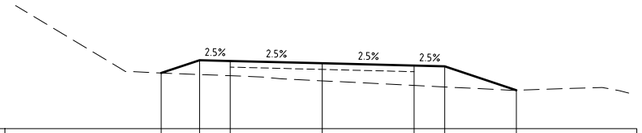
CH 760.828



Datum R.L.2

DESIGN LEVELS	2.805	2.956	2.943	2.906	2.868	2.856	2.708
EXISTING LEVELS	2.805	2.728	2.680	2.582	2.673	2.691	2.708
OFFSET	-2.454	-2.000	-1.500	0.000	1.500	2.000	2.445

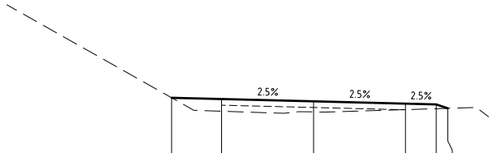
CH 785.825



Datum R.L.2

DESIGN LEVELS	2.907	3.116	3.103	3.066	3.028	3.016	2.627
EXISTING LEVELS	2.907	2.883	2.863	2.780	2.705	2.680	2.627
OFFSET	-2.626	-2.000	-1.500	0.000	1.500	2.000	3.166

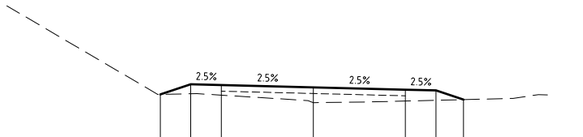
CH 807.179



Datum R.L.2

DESIGN LEVELS	2.953	2.932	2.895	2.857	2.845	2.782	
EXISTING LEVELS	2.953	2.734	2.723	2.760	2.776	2.782	
OFFSET	-2.315	-1.500	0.000	1.500	2.000	2.190	

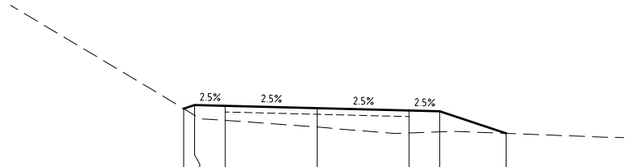
CH 760.000



Datum R.L.2

DESIGN LEVELS	2.747	2.912	2.900	2.862	2.825	2.812	2.662
EXISTING LEVELS	2.747	2.758	2.735	2.613	2.639	2.651	2.662
OFFSET	-2.495	-2.000	-1.500	0.000	1.500	2.000	2.450

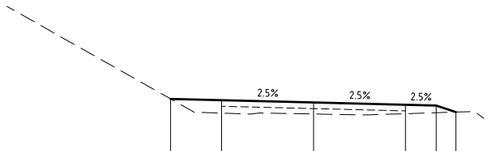
CH 780.000



Datum R.L.2

DESIGN LEVELS	3.003	3.062	3.050	3.012	2.975	2.962	2.601
EXISTING LEVELS	3.003	2.896	2.814	2.705	2.608	2.626	2.601
OFFSET	-2.177	-2.000	-1.500	0.000	1.500	2.000	3.082

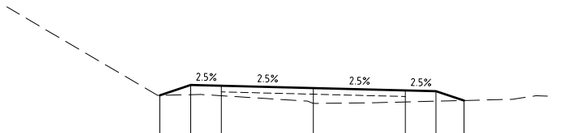
CH 800.000



Datum R.L.2

DESIGN LEVELS	2.977	2.957	2.919	2.882	2.869	2.762	
EXISTING LEVELS	2.977	2.746	2.731	2.736	2.752	2.762	
OFFSET	-2.331	-1.500	0.000	1.500	2.000	2.321	

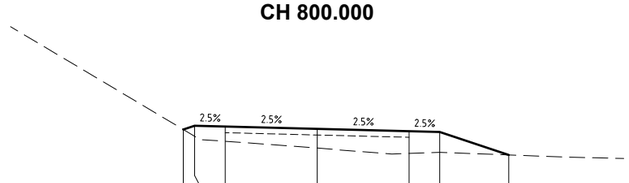
CH 758.656



Datum R.L.2

DESIGN LEVELS	2.742	2.910	2.898	2.860	2.823	2.810	2.657
EXISTING LEVELS	2.742	2.753	2.735	2.609	2.634	2.646	2.657
OFFSET	-2.505	-2.000	-1.500	0.000	1.500	2.000	2.458

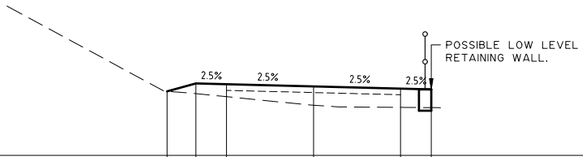
CH 779.724



Datum R.L.2

DESIGN LEVELS	2.999	3.060	3.048	3.010	2.973	2.960	2.585
EXISTING LEVELS	2.999	2.888	2.808	2.699	2.610	2.628	2.585
OFFSET	-2.183	-2.000	-1.500	0.000	1.500	2.000	3.125

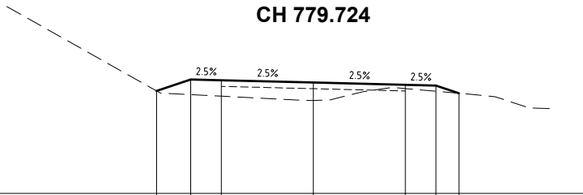
CH 799.741



Datum R.L.2

DESIGN LEVELS	3.045	3.177	3.164	3.125	3.089	3.077	
EXISTING LEVELS	3.045	3.015	2.965	2.818	2.783	2.779	
OFFSET	-2.390	-1.920	-1.420	0.000	1.420	1.920	

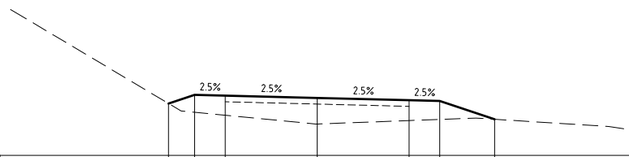
CH 750.000



Datum R.L.1

DESIGN LEVELS	2.671	2.857	2.845	2.807	2.770	2.757	2.633
EXISTING LEVELS	2.671	2.611	2.585	2.515	2.709	2.665	2.633
OFFSET	-2.558	-2.000	-1.500	0.000	1.500	2.000	2.375

CH 770.000



Datum R.L.2

DESIGN LEVELS	2.846	2.987	2.975	2.937	2.900	2.887	2.589
EXISTING LEVELS	2.846	2.703	2.654	2.511	2.568	2.587	2.589
OFFSET	-2.424	-2.000	-1.500	0.000	1.500	2.000	2.894

CH 790.000

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Hornsby Shire Council Design & Construction Branch

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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH — Design Checked-Design Team Leader — Signed:
Drawn: S. COMISH — Drawing Checked — Signed:
Surveyor: M. LAWTON — NA Field Book — NA Level Book — AHD Datum
Project Identifier\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg
TRIM Document Number: XXX

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

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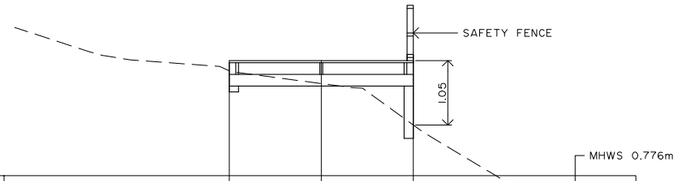
Bar Scales: 0 1 2 3m — SCALE 1:50 @ A1
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH750.000 TO CH807.179

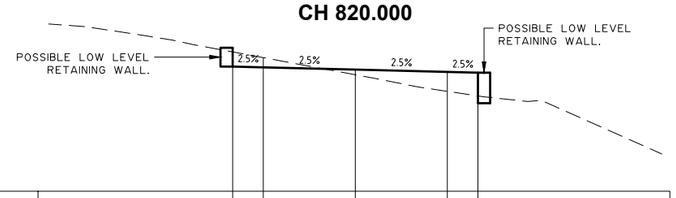
Project Number: 100277
Sheet 24 of 30
Issue 2
HSC Drawing Number: 29.31



Datum R.L.1

DESIGN LEVELS	2.876	2.876	2.876
EXISTING LEVELS	2.707	2.501	1.826
OFFSET	-1.500	0.000	1.500

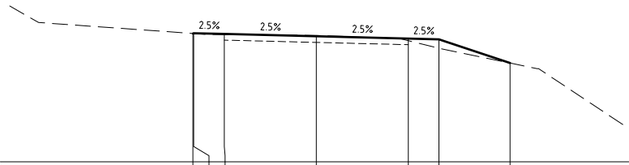
CH 820.000



Datum R.L.1

DESIGN LEVELS	3.033	3.021	2.983	2.946	2.933
EXISTING LEVELS	3.271	3.178	2.899	2.629	2.554
OFFSET	-2.000	-1.500	0.000	1.500	2.000

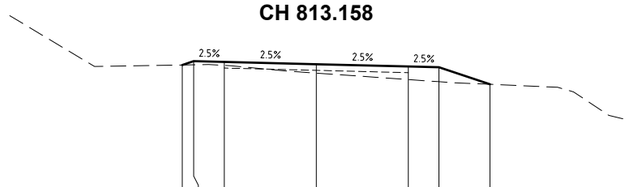
CH 816.328



Datum R.L.1

DESIGN LEVELS	3.092	3.097	3.084	3.047	3.009	2.997	2.610
EXISTING LEVELS	3.092	3.091	3.076	3.060	2.975	2.851	2.610
OFFSET	-2.013	-2.000	-1.500	0.000	1.500	2.000	3.160

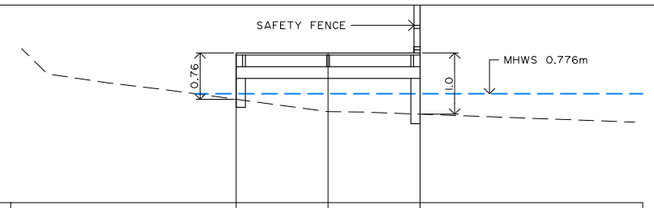
CH 813.158



Datum R.L.1

DESIGN LEVELS	3.061	3.123	3.111	3.073	3.036	3.023	2.746
EXISTING LEVELS	3.061	3.064	3.055	2.929	2.823	2.788	2.746
OFFSET	-2.187	-2.000	-1.500	0.000	1.500	2.000	2.832

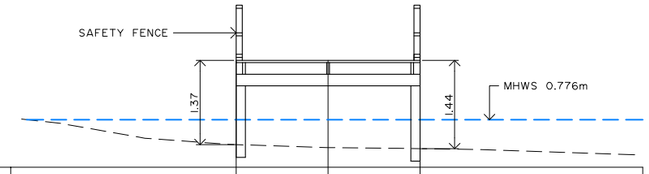
CH 810.000



Datum R.L.-1

DESIGN LEVELS	1.441	1.441	1.441
EXISTING LEVELS	0.685	0.483	0.443
OFFSET	-1.500	0.000	1.500

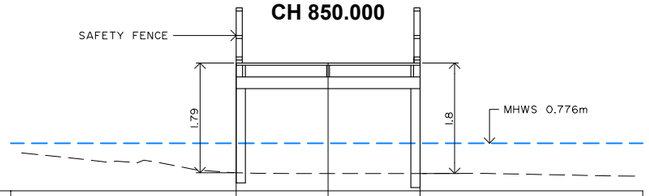
CH 860.000



Datum R.L.0

DESIGN LEVELS	1.741	1.741	1.741
EXISTING LEVELS	0.369	0.320	0.303
OFFSET	-1.500	0.000	1.500

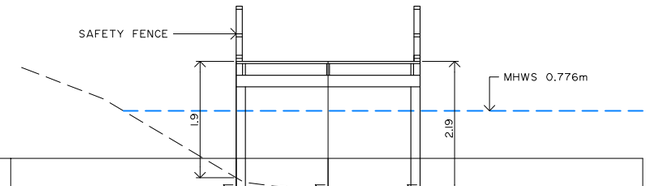
CH 850.000



Datum R.L.0

DESIGN LEVELS	2.082	2.082	2.082
EXISTING LEVELS	0.296	0.281	0.283
OFFSET	-1.500	0.000	1.500

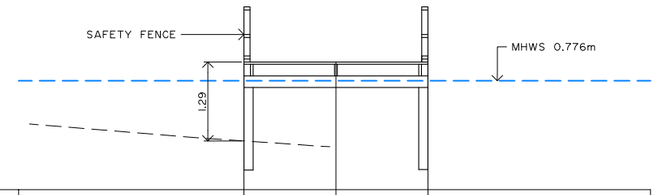
CH 840.000



Datum R.L.0

DESIGN LEVELS	2.581	2.581	2.581
EXISTING LEVELS	0.685	0.487	0.394
OFFSET	-1.500	0.000	1.500

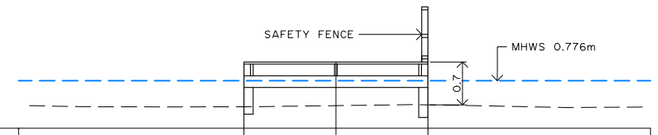
CH 830.000



Datum R.L.-1

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	-0.206		
OFFSET	-1.500	0.000	1.500

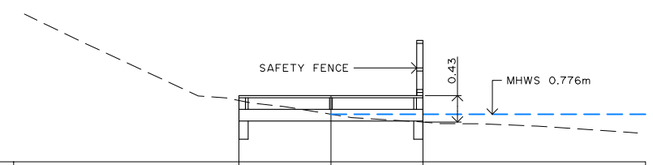
CH 900.000



Datum R.L.0

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	0.349	0.369	0.381
OFFSET	-1.500	0.000	1.500

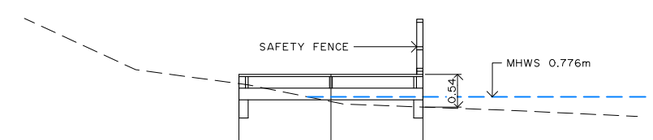
CH 890.000



Datum R.L.0

DESIGN LEVELS	1.080	1.080	1.080
EXISTING LEVELS	1.000	0.776	0.649
OFFSET	-1.500	0.000	1.500

CH 880.000



Datum R.L.0

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CH 870.000

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Hornsby Shire Council
Design & Construction Branch
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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer: S. COMISH	Design Checked-Design Team Leader — Signed:
Drawn: S. COMISH	Drawing Checked — Signed:
Surveyor: M. LAWTON	NA Field Book / NA Level Book / AHD Datum
Project Identifier\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg	
TRIM Document Number: XXX	

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

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Bar Scales: 0 1 2 3m — SCALE 1:50 @ A1

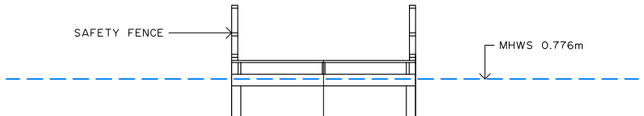
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH810.000 TO CH900.000

Project Number: 100277
Sheet 25 of 30
Issue 2
HSC Drawing Number: 29.31



Datum R.L.0

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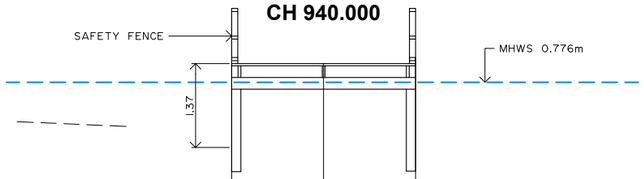
CH 940.000



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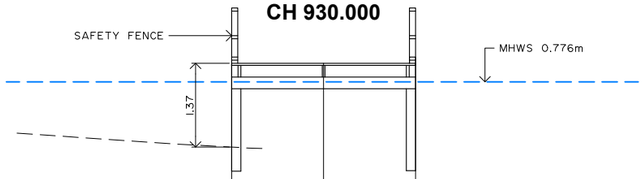
CH 930.000



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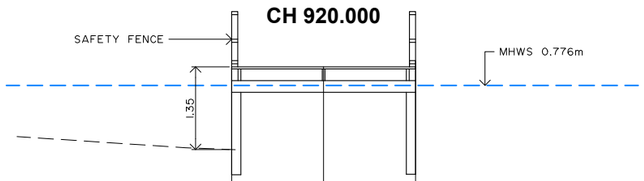
CH 920.000



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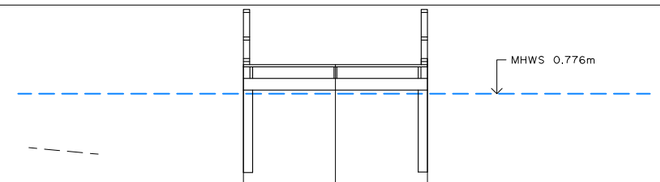
CH 910.000



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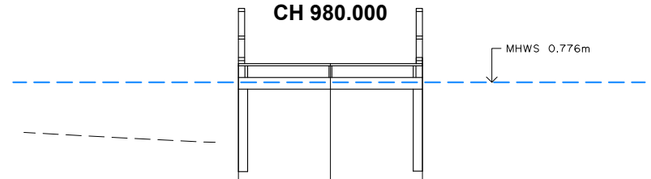
CH 980.000



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EXISTING LEVELS			
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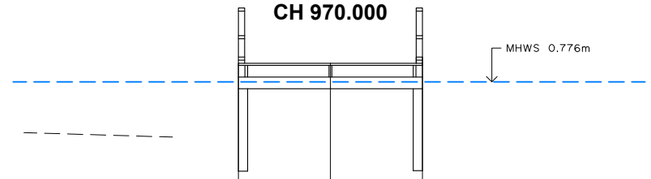
CH 970.000



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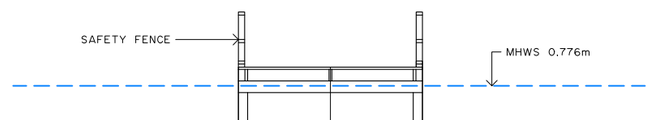
CH 960.000



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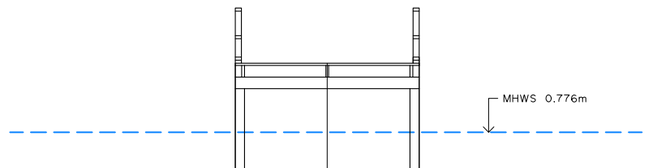
CH 950.000



Datum R.L.0

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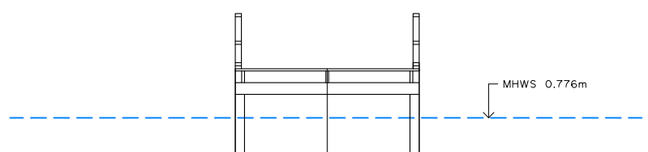
CH 1000.000



Datum R.L.0

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CH 990.000

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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer S. COMISH	Design Checked-Design Team Leader Signed:		
Drawn S. COMISH	Drawing Checked Signed:		
Surveyor M. LAWTON	NA Field Book	NA Level Book	AHD Datum
Project Identifier\-\CAD File Name H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg			
TRIM Document Number XXX			

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

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Bar Scales
0 1 2 3m
SCALE 1:50 @ A1
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

CL1 CROSS SECTIONS - CH910.000 TO CH1000.000

Project Number **100277**
Sheet **26** of **30**
Issue **2**
HSC Drawing Number **29.31**

SCHEDULE OF SURVEYED TREES

Tree No.	Species	Common Name	Height (m)	Spread (m)	Breast Dia	Base Dia	TPZ (m)	SRZ (m)	Age Class	Current Vigour	Current Form	Tree Origin	Hollow Bearing	Noted Defects	SULE Rating	Retention Value	General comments, notes and recommendations
1	*Archontophoenix alexandrae*	Alexandra Palm	6.0	4.0	0.23	0.40	3.00	1.20	Mature	Good	Average	Exotic	No		Long (>40 years)	Low	Twin trunked palm. Lower trunk 3m height. Growing adjoining retaining wall.
2	*Glochidion ferdinandi*	Cheese Tree	8.0	5.0	0.21	0.42	2.52	2.30	Mature	Good	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	
3	*Callistemon citrinus cv.*	Crimson Bottlebrush	10.0	6.0	0.24	0.38	2.88	2.20	Mature	Fair	Average	Native	No	Co-dominant Stems, Decay-Minor	Med(15-40 years)	Low	
4	Glochidion ferdinandi	Cheese Tree	8.0	4.0	0.15	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	
5	Acacia implexa	Hickory Wattle	12.0	8.0	0.32	0.40	3.84	2.25	Mature	Fair	Average	Endemic	No	Tip Dieback, Lean-Minor, Inclusions	Med (15-40 years)	Low	
6	Syagrus romanzoffiana	Queen Palm	8.5	5.0	0.24	0.29	3.50	1.15	Mature	Fair	Average	Exotic	No		Long (>40 years)	Low	
7	Syagrus romanzoffiana	Queen Palm	9.0	4.0	0.20	0.25	3.00	1.13	Mature	Fair	Average	Exotic	No		Long (>40 years)	Low	
8	Syagrus romanzoffiana	Queen Palm	6.0	5.0	0.20	0.25	3.50	1.13	Mature	Fair	Average	Exotic	No		Long (>40 years)	Low	
9	Syagrus romanzoffiana	Queen Palm	6.0	5.0	0.20	0.25	3.50	1.13	Mature	Fair	Average	Exotic	No	Major Wounding	Long (>40 years)	Nil / Remove	Major trunk wound from mechanical damage. Trapped with piece of wood for support.
10	Syagrus romanzoffiana	Queen Palm	5.0	5.0	0.23	0.30	3.50	1.15	Mature	Poor	Average	Exotic	No		Long (>40 years)	Low	
11	Syagrus romanzoffiana	Queen Palm	6.0	5.0	0.24	0.32	3.50	1.16	Mature	Poor	Average	Exotic	No		Long (>40 years)	Low	
12	Syagrus romanzoffiana	Queen Palm	5.5	5.0	0.23	0.34	3.50	1.17	Mature	Poor	Average	Exotic	No		Long (>40 years)	Low	
13	Syagrus romanzoffiana	Queen Palm	6.5	6.0	0.30	0.39	4.00	1.20	Mature	Good	Average	Exotic	No		Long (>40 years)	Low	
14	Angophora floribunda	Rough-barked Apple	9.0	5.0	0.16	0.19	2.00	1.65	Mature	Poor	Average	Endemic	No		Long (>40 years)	Moderate	
15	Leptospermum polygalifolium	Yellow Tea Tree	4.0	4.0	0.16	0.18	2.00	1.61	Mature	Good	Average	Endemic	No		Long (>40 years)	Moderate	
16	Angophora floribunda	Rough-barked Apple	9.5	4.0	0.15	0.19	2.00	1.65	Mature	Poor	Average	Endemic	No		Long (>40 years)	Moderate	
17	Pinus taeda	Loblolly Pine	18.0	9.0	0.59	0.69	7.08	2.83	Mature	Fair	Poor	Invasive	No		Long (>40 years)	Nil / Remove	
18	Allocasuarina littoralis	Black She-Oak	9.0	10.0	0.32	0.40	3.84	2.25	Mature	Good	Poor	Endemic	No	Lean-Major	Med (15-40 years)	Moderate	Major lean and butt sweep out of rock embankment.
19	Pinus taeda	Loblolly Pine	12.0	6.0	0.20	0.35	2.40	2.13	Mature	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	
20	Pinus taeda	Loblolly Pine	13.0	6.0	0.30	0.40	3.60	2.25	Mature	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	
21	Glochidion ferdinandi	Cheese Tree	11.0	7.0	0.22	0.25	2.64	1.85	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	
22	Pinus taeda	Loblolly Pine	14.0	6.0	0.32	0.42	3.84	2.30	Mature	Fair	Poor	Invasive	No	Co-dominant Stems	Long (>40 years)	Nil / Remove	
23	Pinus taeda	Loblolly Pine	12.0	6.0	0.25	0.32	3.00	2.05	Mature	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	
24	Pinus taeda	Loblolly Pine	19.0	10.0	0.45	0.62	5.40	2.71	Mature	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	
25	Pinus taeda	Loblolly Pine	19.0	8.0	0.32	0.40	3.84	2.25	Mature	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	
26	Pinus taeda	Loblolly Pine	13.0	6.0	0.30	0.36	3.60	2.15	Mature	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	
27	Pinus taeda	Loblolly Pine	13.0	6.0	0.30	0.38	3.60	2.20	Mature	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	
28	Angophora floribunda	Rough-barked Apple	20.0	14.0	0.60	0.70	7.20	2.85	Mature	Fair	Average	Endemic	No	Decay-Major, Tip Dieback	Long (>40 years)	High	
29	Angophora floribunda	Rough-barked Apple	18.0	12.0	0.49	0.55	5.88	2.57	Mature	Poor	Average	Endemic	No	Decay-Major, Tip Dieback	Long (>40 years)	Moderate	
30	Pinus taeda	Loblolly Pine	12.0	6.0	0.21	0.32	2.52	2.05	Mature	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	
31	Casuarina glauca	Swamp She-Oak	14.0	4.0	0.15	0.25	2.00	1.85	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	
32	Casuarina glauca	Swamp She-Oak	15.0	5.0	0.25	0.38	3.00	2.20	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	
33	Alphitonia excelsa	Red Ash	9.0	5.0	0.21	0.25	2.52	1.85	Mature	Fair	Average	Endemic	No	Very Asymmetric Form	Long (>40 years)	Moderate	Lean to north.
34	Casuarina glauca	Swamp She-Oak	15.0	4.0	0.25	0.35	3.00	2.13	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	Vine covered.
35	Alphitonia excelsa	Red Ash	9.0	6.0	0.19	0.30	2.28	2.00	Mature	Fair	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	
36	Casuarina glauca	Swamp She-Oak	15.0	5.0	0.23	0.32	2.76	2.05	Mature	Fair	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	Twin trunked tree. Very near path.
37	Pinus taeda	Loblolly Pine	13.0	5.0	0.22	0.32	2.64	2.00	Mature	Fair	Poor	Invasive	No	Very Asymmetric Form	Long (>40 years)	Nil / Remove	Asymmetric to east.
38	Alphitonia excelsa	Red Ash	11.0	8.0	0.23	0.32	2.76	2.05	Mature	Fair	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	
39	Casuarina glauca	Swamp She-Oak	15.0	5.0	0.18	0.28	2.16	1.94	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	
40	Casuarina glauca	Swamp She-Oak	15.0	6.0	0.25	0.35	3.00	2.13	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	
41	Casuarina glauca	Swamp She-Oak	14.0	4.0	0.20	0.30	2.40	2.00	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	
42	Casuarina glauca	Swamp She-Oak	14.0	7.0	0.22	0.30	2.64	2.00	Mature	Fair	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	Twin trunked from base.
43	Casuarina glauca	Swamp She-Oak	14.0	6.0	0.27	0.40	3.24	2.25	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Decay-Minor	Long (>40 years)	Moderate	Minor lean to north. Basal decay and wounding.
44	Eucalyptus punctata	Grey Gum	14.0	6.0	0.35	0.38	4.20	2.20	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Minor	Long (>40 years)	Moderate	Asymmetric and minor lean to north. Will be very close to path edge. Avoid any excavation.
45	Casuarina glauca	Swamp She-Oak	14.0	6.0	0.20	0.32	2.40	2.05	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Minor	Long (>40 years)	Moderate	Minor lean to north.
46	Angophora floribunda	Rough-barked Apple	14.0	3.0	0.17	0.20	2.04	1.68	Mature	Poor	Poor	Endemic	No	Tip Dieback, Epicormic Growth	Long (>40 years)	Low	
47	Angophora floribunda	Rough-barked Apple	14.0	8.0	0.20	0.25	2.40	1.85	Mature	Poor	Poor	Endemic	No	Tip Dieback, Epicormic Growth	Long (>40 years)	Low	Group of two trees very close together. Closest to pathway marked and measured.
48	Angophora floribunda	Rough-barked Apple	8.0	6.0	0.23	0.40	2.76	2.25	Mature	Fair	Poor	Endemic	No	Tip Dieback, Epicormic Growth	Long (>40 years)	Moderate	Two trunks from base. Asymmetric to south.
49	Angophora floribunda	Rough-barked Apple	8.0	4.0	0.15	0.20	2.00	1.68	Mature	Fair	Poor	Endemic	No	Tip Dieback, Epicormic Growth	Long (>40 years)	Low	Asymmetric to the east.
50	Acacia implexa	Hickory Wattle	10.0	6.0	0.18	0.21	2.16	1.72	Mature	Poor	Poor	Endemic	No	Tip Dieback, Lean-Major	Med (15-40 years)	Low	Asymmetric and major lean to north east.
51	Alphitonia excelsa	Red Ash	13.0	9.0	0.32	0.45	3.84	2.37	Mature	Good	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	High	Multitrunked from base. Otherwise good tree.
52	Ligustrum lucidum	Broadleaf Privet	13.0	5.0	0.30	0.45	3.60	2.37	Mature	Good	Average	Weed	No	Co-dominant Stems	Long (>40 years)	Nil / Remove	Weed within footprint. Remove.
53	Erythrina x sykesii	Coral Tree	12.0	5.0	0.25	0.40	3.00	2.25	Mature	Fair	Poor	Weed	No	Co-dominant Stems	Long (>40 years)	Nil / Remove	Weed within footprint. Multitrunked from base. Remove.
54	Erythrina x sykesii	Coral Tree	12.0	9.0	0.25	0.50	3.00	2.47	Mature	Fair	Poor	Weed	No	Co-dominant Stems	Long (>40 years)	Nil / Remove	Weed within footprint. Multi trunked from base. Remove.
55	Erythrina x sykesii	Coral Tree	13.0	10.0	0.40	0.60	4.80	2.67	Mature	Fair	Poor	Weed	No	Co-dominant Stems	Long (>40 years)	Nil / Remove	Weed within footprint. Multitrunked from base. Remove.
56	Ligustrum lucidum	Broadleaf Privet	13.0	5.0	0.30	0.40	3.60	2.25	Mature	Good	Average	Weed	No	Co-dominant Stems	Long (>40 years)	Nil / Remove	Weed within footprint. Remove.
57	Casuarina glauca	Swamp She-Oak	16.0	6.0	0.19	0.24	2.28	1.82	Mature	Good	Average	Endemic	No		Long (>40 years)	Moderate	Within path foot print. Try to work path to north and retain.
58	Casuarina glauca	Swamp She-Oak	14.0	7.0	0.25	0.40	3.00	2.25	Mature	Fair	Average	Endemic	No	Major Wounding, Deadwood-Minor	Long (>40 years)	Low	Multi trunked. Asymmetric to east.
59	*Phoenix canariensis*	Canary Island Date Palm	4.0	5.0	1.20	1.20	3.50	1.60	Mature	Fair	Poor	Weed	No	Co-dominant Stems	Long (>40 years)	Nil / Remove	Weed within footprint. Remove.
60	*Angophora floribunda*	Rough-barked Apple	15.0	14.0	1.10	1.10	13.20	3.44	Mature	Fair	Average	Endemic	No	Tip Dieback, Epicormic Growth	Long (>40 years)	High	
61	*Glochidion ferdinandi*	Cheese Tree	11.0	7.0	0.16	0.19	2.00	1.65	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	
62	*Eucalyptus punctata*	Grey Gum	14.0	6.0	0.30	0.35	3.60	2.13	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Minor	Long (>40 years)	Moderate	Will be very close to path edge. Avoid any excavation. Lean to east.
63	*Glochidion ferdinandi*	Cheese Tree	12.0	8.0	0.30	0.45	3.60	2.37	Mature	Good	Excellent	Endemic	No		Long (>40 years)	High	Close to path. Avoid excavation.
64	Glochidion ferdinandi	Cheese Tree	12.0	8.0	0.20	0.30	2.40	2.00	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	Close to path. Avoid excavation.
65	Casuarina glauca	Swamp She-Oak	14.0	5.0	0.19	0.28	2.28	1.94	Mature	Good	Average	Endemic	No		Long (>40 years)	Moderate	
66	Casuarina glauca	Swamp She-Oak	14.0	5.0	0.25	0.34	3.00	2.10	Mature	Good	Average	Endemic	No		Long (>40 years)	Moderate	
67	Alphitonia excelsa	Red Ash	12.0	8.0	0.30	0.40	3.60	2.25	Mature	Good	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	Multi trunked from base.
68	Angophora floribunda	Rough-barked Apple	17.0	15.0	1.10	1.10	13.20	3.44	Mature	Fair	Average	Endemic	Yes	Tip Dieback, Epicormic Growth	Long (>40 years)	High	Large tree upslope of path.
69	Callicoma serratifolia	Black Wattle	9.0	6.0	0.30	0.45	3.60	2.37	Mature	Fair	Average	Endemic	No	Tip Dieback, Epicormic Growth	Med (15-40 years)	Moderate	Multi trunked from base. Avoid excavation.
70	Callicoma serratifolia	Black Wattle	9.0	6.0	0.26	0.40	3.12	2.25	Mature	Fair	Average	Endemic	No	Tip Dieback, Epicormic Growth	Med (15-40 years)	Moderate	Multitrunked from base.
71	Casuarina glauca	Swamp She-Oak	15.0	7.0	0.30	0.40	3.60	2.25	Mature	Good	Average	Endemic	No	Very Asymmetric Form	Long (>40 years)	Moderate	
72	Casuarina glauca	Swamp She-Oak	15.0	7.0	0.40	0.40	4.80	2.25	Mature	Good	Average	Endemic	No	Major Wounding, Decay-Minor	Long (>40 years)	Moderate	
73	Angophora floribunda	Rough-barked Apple	10.0	8.0	0.20	0.26	2.40	1.88	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Major	Long (>40 years)	Moderate	Asymmetric and lean to north east.
74	Angophora floribunda	Rough-barked Apple	18.0	10.0	0.40	0.50	4.80	2.47	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Major	Long (>40 years)	Moderate	Major butt sweep to north. Corrected in upper canopy.
75	Glochidion ferdinandi	Cheese Tree	14.0	8.0	0.26	0.40	3.12	2.25	Mature	Fair	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	
76	*Melaleuca bracteata?*	Black Tea-Tree	12.0	10.0	0.18	0.30	2.16	2.00	Mature	Poor	Poor	Native	No	Very Asymmetric Form, Lean-Major	Med (15-40 years)	Low	Major butt sweep to east. Sparse foliage. Unable to access material for definitive identification.
77	*Alphitonia excelsa*	Red Ash	14.0	9.0	0.18	0.22	2.16	1.75	Mature	Fair	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	Multi-trunked from base. Good tree.
78	*Avicennia marina var. australasica*	Grey Mangrove	6.0	8.0	0.25	0.40	3.00	2.25	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Major	Long (>40 years)	High	Tree almost laying on ground to east. Potentially prune dead branches for access for boardwalk.
79	Avicennia marina var. australasica	Grey Mangrove	6.0	6.0	0.14	0.18	2.00	1.61	Mature	Fair	Average	Endemic	Yes	Lean-Major	Long (>40 years)	High	Asymmetric to south-east.
80	Avicennia marina var. australasica	Grey Mangrove	7.5	6.0	0.35	0.45	4.20	2.37	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Large broken and failed branch to east resting on ground could be pruned to facilitate access.
81	Avicennia marina var. australasica	Grey Mangrove	6.0	6.0	0.11	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No	Major Wounding	Long (>40 years)	High	
82	Avicennia marina var. australasica	Grey Mangrove	8.0	5.0	0.18	0.50	2.16	2.47	Mature	Fair	Average	Endemic	Yes	Deadwood-Major	Long (>40 years)	High	Major dead trunk to west could be removed without impact.
83	Avicennia marina var. australasica	Grey Mangrove	8.0	5.0	0.18	0.25	2.16	1.85	Mature	Fair	Average	Endemic	Yes	Deadwood-Major	Long (>40 years)	High	Dead trunk to west could be removed.
84	Avicennia marina var. australasica	Grey Mangrove	8.0	5.0	0.16	0.25	2.00	1.85	Mature	Fair	Average	Endemic	No	Deadwood-Minor, Lean-Minor	Long (>40 years)	High	
85	Avicennia marina var. australasica	Grey Mangrove	8.0	10.0	0.60	1.20	7.20	3.57	Mature	Fair	Average	Endemic	Yes	Deadwood-Minor, Lean-Major	Long (>40 years)	High	Potentially prune two branches to north for access for boardwalk. Major multi-trunked tree. 2x 60mm to north. Prune
86	Avicennia marina var. australasica	Grey Mangrove	6.0	7.0	0.18	0.28	2.16	1.94	Mature	Fair	Average	Endemic	No	Deadwood-Minor, Lean-Minor	Long (>40 years)	High	Asymmetric to east.
87	Avicennia marina var. australasica	Grey Mangrove	8.5	7.0	0.29	0.40	3.48	2.25	Mature	Fair	Average	Endemic	Yes	Deadwood-Minor	Long (>40 years)	High	
88	Avicennia marina var. australasica	Grey Mangrove	4.0	3.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Major trunk kink.
89	Avicennia marina var. australasica	Grey Mangrove	5.0	6.0	0.16	0.30	2.00	2.00	Mature	Fair	Average	Endemic	No	Asymmetric Form	Long (>40 years)	High	Asymmetric to east.
90	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.14	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No	Asymmetric Form, Lean-Minor"	Long (>40 years)	High	Asymmetric to north east.
91	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.12	0.22	2.00	1.75	Mature	Fair	Average	Endemic	No	Asymmetric Form, Lean-Minor"	Long (>40 years)	High	Asymmetric to north east.
92	Pittosporum undulatum	Sweet Pittosporum	10.0	8.0	0.35	0.48	4.20	2.43	Mature	Good	Excellent	Endemic	No	Asymmetric Form, Lean-Major	Long (>40 years)	High	Growing out of rocks. Potentially prune lower branches to east to provide clearance otherwise retain as a feature at pathway turning point. Prune
93	*Alphitonia excelsa*	Red Ash	11.0	8.0	0.30	0.40	3.60	2.25	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Major	Long (>40 years)	Moderate	Growing out of rocks.
94	*Ficus rubiginosa*	Port Jackson Fig	12.0	12.0	0.90	1.25	10.80	3.63	Mature	Good	Excellent	Endemic	No	Co-dominant Stems, Hangers"	Long (>40 years)	High	Growing out of rocks. Potential major feature and focal point along pathway. Consider path widening and seating looking east at this point.
95	Casuarina glauca	Swamp She-Oak	9.0	5.0	0.12	0.16	2.00	1.53	Mature	Good	Average	Endemic	No		Long (>40 years)	Moderate	Just 3m clearance between nearest mangrove and this tree. Attempt to retain.
96	Casuarina glauca	Swamp She-Oak	10.0	6.0	0.24	0.30	2.88	2.00	Mature	Good	Average	Endemic	No	Very Asymmetric Form	Long (>40 years)	Moderate	Prune lowest branches to east for clearance. Asymmetric to east. Prune 2 x 60mm. Prune
97	Casuarina glauca	Swamp She-Oak	11.0	6.0	0.25	0.30	3.00	2.00	Mature	Good	Average	Endemic	No	Very Asymmetric Form	Long (>40 years)	Moderate	Asymmetric to east.
98	Casuarina glauca	Swamp She-Oak	11.0	6.0	0.39	0.48	4.68	2.43	Mature	Good	Average	Endemic	No	Asymmetric Form, Deadwood-Major	Long (>40 years)	Moderate	Asymmetric to east.
99	Casuarina glauca	Swamp She-Oak	11.0	6.0	0.22	0.28	2.64	1.94	Mature	Good	Average	Endemic	No		Long (>40 years)	Moderate	
100	Angophora floribunda	Rough-barked Apple	7.0	8.0	0.30	0.34	3.60	2.10	Mature	Fair	Poor	Endemic	No	Asymmetric Form, Termites, Decay	Long (>40 years)	Low	
101	Angophora floribunda	Rough-barked Apple	8.0	8.0	0.11	0.25	2.00	1.85	Mature	Fair	Average	Endemic	No	Asymmetric Form, Termites	Long (>40 years)	Moderate	Asymmetric to south-east.
102	Angophora floribunda	Rough-barked Apple	8.0	8.0	0.11	0.15	2.00	1.49	Mature	Poor	Average	Endemic	No	Asymmetric Form, Termites	Long (>40 years)	Moderate	Asymmetric to south east.
103	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.10	0.14	2.00	1.45	Mature	Fair	Average	Endemic	No	Asymmetric Form, Lean-Major	Long (>40 years)	High	Asymmetric to east.
104	Avicennia marina var. australasica	Grey Mangrove	7.0	4.0	0.14	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No	Asymmetric Form, Lean-Major	Long (>40 years)	High	Asymmetric to east.
105	Avicennia marina var. australasica	Grey Mangrove	7.0	4.0	0.13	0.17	2.00	1.57	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Asymmetric to east.
106	Avicennia marina var. australasica	Grey Mangrove	8.0	7.0	0.30	0.30	3.60	2.00	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Asymmetric to east.
107	Avicennia marina var. australasica	Grey Mangrove	8.5	8.0	0.24	0.32	2.88	2.05	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Asymmetric to north.
108	Avicennia marina var. australasica	Grey Mangrove	8.5	10.0	0.56	1.10	6.72	3.44	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	Multi trunked from base. Asymmetric to east. Major tree with extensive habitat features.
109	Avicennia marina var. australasica	Grey Mangrove	7.0	7.0	0.17	0.30	2.04	2.00	Mature	Fair	Average	Endemic	Yes	Lean-Major, Very Asymmetric Form	Long (>40 years)	High	Asymmetric to south.
110	Avicennia marina var. australasica	Grey Mangrove	7.0	8.0	0.15	0.40	2.00	2.25	Mature	Fair	Average	Endemic	Yes	Lean-Major, Very Asymmetric Form	Long (>40 years)	High	
111	Avicennia marina var. australasica	Grey Mangrove	7.0	8.0	0.13	0.17	2.00	1.57	Mature	Fair	Average	Endemic	Yes	Lean-Major, Deadwood & Decay-Major	Long (>40 years)	High	Multi trunked from base.
112	Avicennia marina var. australasica	Grey Mangrove	8.0	6.0	0.20	0.30	2.40	2.00	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
113	Avicennia marina var. australasica	Grey Mangrove	9.0	6.0	0.43	0.60	5.16	2.67	Mature	Fair	Average	Endemic	Yes	Cavity, Decay-Minor	Long (>40 years)	High	Multitrunked from base.
114	Avicennia marina var. australasica	Grey Mangrove	7.0	6.0	0.20	0.30	2.40	2.00	Mature	Fair	Average	Endemic	Yes	Very Asymmetric Form, Lean-Major	Long (>40 years)	High	Asymmetric to east.

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Field Book	NA
Level Book	NA
Datum	AHD
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Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

Bar Scales
NOT TO SCALE
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HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

TREE SCHEDULE - SHEET 1 OF 4

Project Number: 100277
Sheet 27 of 30
Issue 2
HSC Drawing Number: 29.31

SCHEDULE OF SURVEYED TREES (CONT)

Tree No.	Species	Common Name	Height (m)	Spread (m)	Breast Dia	Base Dia	TPZ (m)	SRZ (m)	Age Class	Current Vigour	Current Form	Tree Origin	Hollow Bearing	Noted Defects	SULE Rating	Retention Value	General comments, notes and recommendations
114	Avicennia marina var. australasica	Grey Mangrove	7.0	6.0	0.20	0.30	2.40	2.00	Mature	Fair	Average	Endemic	Yes	Very Asymmetric Form, Lean-Major	Long (>40 years)	High	Asymmetric to east.
115	Avicennia marina var. australasica	Grey Mangrove	8.5	7.0	0.20	0.30	2.40	2.00	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	
116	Avicennia marina var. australasica	Grey Mangrove	2.0	7.0	0.20	0.30	2.40	2.00	Mature	Poor	Poor	Endemic	Yes	Cavity	Long (>40 years)	Moderate	Very poor form.
117	Avicennia marina var. australasica	Grey Mangrove	8.5	3.0	0.13	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Part of group between rocks and embankment on west of pathway.
118	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Part of group between rocks and embankment on west of pathway.
119	Avicennia marina var. australasica	Grey Mangrove	7.0	3.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Part of group between rocks and embankment on west of pathway.
120	Avicennia marina var. australasica	Grey Mangrove	9.0	3.0	0.15	0.19	2.00	1.65	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Part of group between rocks and embankment on west of pathway.
121	Avicennia marina var. australasica	Grey Mangrove	8.5	3.0	0.14	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Part of group between rocks and embankment on west of pathway.
122	Avicennia marina var. australasica	Grey Mangrove	8.5	3.0	0.14	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Part of group between rocks and embankment on west of pathway.
123	Avicennia marina var. australasica	Grey Mangrove	8.5	3.0	0.10	0.13	2.00	1.40	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Part of group between rocks and embankment on west of pathway.
124	Avicennia marina var. australasica	Grey Mangrove	8.5	2.0	0.12	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No	Lean-Minor	Long (>40 years)	High	Part of group between rocks and embankment on west of pathway.
125	Avicennia marina var. australasica	Grey Mangrove	6.0	5.0	0.15	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Major	Long (>40 years)	High	Part of group between rocks and embankment on west of pathway. Prune. Lowest branch to east for clearance. Prune 1x 50mm.Prune
126	Avicennia marina var. australasica	Grey Mangrove	9.0	3.0	0.14	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Part of group between rocks and embankment on west of pathway.
127	Avicennia marina var. australasica	Grey Mangrove	5.0	4.0	0.12	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No	Lean-Minor, Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east.
128	Avicennia marina var. australasica	Grey Mangrove	2.5	3.0	0.10	0.11	2.00	1.31	Mature	Fair	Average	Endemic	No	Lean-Major, Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east.
129	Avicennia marina var. australasica	Grey Mangrove	7.0	3.0	0.13	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
130	Avicennia marina var. australasica	Grey Mangrove	5.0	7.0	0.20	0.25	2.40	1.85	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Prune western lower branch to provide clearance to path. Prune 1 x 70mm. Prune
131	Avicennia marina var. australasica	Grey Mangrove	6.0	8.0	0.20	0.25	2.40	1.85	Mature	Fair	Average	Endemic	Yes	Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east.
132	Avicennia marina var. australasica	Grey Mangrove	7.0	3.0	0.11	0.14	2.00	1.45	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Probably in footprint of pathway.
133	Avicennia marina var. australasica	Grey Mangrove	6.0	6.0	0.10	0.12	2.00	1.36	Mature	Fair	Poor	Endemic	No	Very Asymmetric Form	Long (>40 years)	Moderate	Probably in footprint of pathway. Very asymmetric to east.
134	Casuarina glauca	Swamp She-Oak	16.0	9.0	0.47	0.55	5.64	2.57	Mature	Fair	Average	Endemic	No	Deadwood-Minor	Long (>40 years)	Moderate	
135	Glochidion ferdinandi	Cheese Tree	7.0	4.0	0.20	0.28	2.40	1.94	Semi-mature	Fair	Average	Endemic	No	Epicormic Growth	Long (>40 years)	Moderate	Topped for power line clearance.
136	Glochidion ferdinandi	Cheese Tree	8.0	6.0	0.30	0.38	3.60	2.20	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	Topped for power line clearance..
137	Glochidion ferdinandi	Cheese Tree	9.0	8.0	0.32	0.38	3.84	2.20	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	Topped for power line clearance..
138	Avicennia marina var. australasica	Grey Mangrove	9.0	5.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
139	Avicennia marina var. australasica	Grey Mangrove	9.0	6.0	0.16	0.25	2.00	1.85	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
140	Avicennia marina var. australasica	Grey Mangrove	6.0	4.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
141	Avicennia marina var. australasica	Grey Mangrove	9.0	5.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Probably need to be remove for path access.
142	Avicennia marina var. australasica	Grey Mangrove	9.0	3.0	0.15	0.25	2.00	1.85	Mature	Poor	Average	Endemic	No	Deadwood-Major, Decay-Major	Long (>40 years)	Moderate	
143	Avicennia marina var. australasica	Grey Mangrove	9.0	3.0	0.22	0.32	2.64	2.05	Mature	Fair	Average	Endemic	Yes	Decay-Major, Deadwood-Major	Long (>40 years)	High	
144	Avicennia marina var. australasica	Grey Mangrove	8.0	5.0	0.26	0.50	3.12	2.47	Mature	Fair	Average	Endemic	Yes	Deadwood-Major, Decay-Major	Long (>40 years)	High	Multi trunked from base.
145	Avicennia marina var. australasica	Grey Mangrove	9.0	5.0	0.36	0.60	4.32	2.67	Mature	Fair	Average	Endemic	Yes	Decay-Minor	Long (>40 years)	High	Should avoid and retain this tree.
146	Avicennia marina var. australasica	Grey Mangrove	9.0	8.0	0.20	0.20	2.40	1.68	Mature	Fair	Average	Endemic	No	Very Asymmetric Form	Long (>40 years)	High	Recommend removing this tree to open up path of travel and avoid more significant group to south. Very asymmetric to east.
147	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
148	Avicennia marina var. australasica	Grey Mangrove	9.0	3.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	
149	Avicennia marina var. australasica	Grey Mangrove	8.0	1.5	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
150	Avicennia marina var. australasica	Grey Mangrove	8.0	3.0	0.11	0.13	2.00	1.40	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
151	Avicennia marina var. australasica	Grey Mangrove	9.0	8.0	0.36	0.30	4.32	2.00	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	
152	*Avicennia marina var. australasica*	Grey Mangrove	5.0	2.0	0.10	0.10	2.00	1.26	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	High	Group of small saplings. Middle specimen tagged.
153	Avicennia marina var. australasica	Grey Mangrove	9.0	8.0	0.15	0.28	2.00	1.94	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
154	Avicennia marina var. australasica	Grey Mangrove	6.0	8.0	0.12	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No	Lean-Major, Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east.
155	Avicennia marina var. australasica	Grey Mangrove	1.0	6.0	0.10	0.10	2.00	1.26	Mature	Fair	Poor	Endemic	No	Lean-Major	Long (>40 years)	Moderate	Asymmetric and almost horizontal growth to east.
156	Avicennia marina var. australasica	Grey Mangrove	7.0	8.0	0.12	0.22	2.00	1.75	Mature	Fair	Average	Endemic	No	Lean-Major, Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east. Prune lowest eastern most branch where it conflicts with pathway. Prune 1 x 50mm.
157	Avicennia marina var. australasica	Grey Mangrove	8.0	5.0	0.10	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No	Lean-Minor, Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east.
158	Avicennia marina var. australasica	Grey Mangrove	7.0	9.0	0.10	0.22	2.00	1.75	Mature	Fair	Average	Endemic	No	Lean-Major, Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east. May need to prune eastern most stem from where it rests on mud surface.
159	Avicennia marina var. australasica	Grey Mangrove	6.0	9.0	0.14	0.22	2.00	1.75	Mature	Fair	Average	Endemic	No	Lean-Major, Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east. May need to prune eastern most end of branch. Prune 1 x 50mm. Prune
160	Avicennia marina var. australasica	Grey Mangrove	6.5	6.0	0.14	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
161	Avicennia marina var. australasica	Grey Mangrove	2.0	1.0	0.05	0.05	2.00	0.94	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Tight group of very young and small saplings. Will probably require removal.
162	Avicennia marina var. australasica	Grey Mangrove	5.0	1.5	0.05	0.05	2.00	0.94	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Tight group of very young and small saplings. Survey outer edge of grouping. Path should be positioned to avoid impacting this group.
163	Avicennia marina var. australasica	Grey Mangrove	6.0	5.0	0.11	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Major	Long (>40 years)	High	Asymmetric to south.
164	Avicennia marina var. australasica	Grey Mangrove	9.0	9.0	0.16	0.25	2.00	1.85	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
165	Avicennia marina var. australasica	Grey Mangrove	9.0	6.0	0.16	0.23	2.00	1.79	Mature	Fair	Average	Endemic	Yes	Major Wounding, Cavity	Long (>40 years)	High	
166	Avicennia marina var. australasica	Grey Mangrove	10.0	7.0	0.30	0.30	3.60	2.00	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
167	Avicennia marina var. australasica	Grey Mangrove	7.0	5.0	0.14	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No	Lean-Minor	Long (>40 years)	High	
168	Avicennia marina var. australasica	Grey Mangrove	9.0	6.0	0.20	0.22	2.40	1.75	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
169	Avicennia marina var. australasica	Grey Mangrove	8.0	7.0	0.22	0.22	2.64	1.75	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	
170	Avicennia marina var. australasica	Grey Mangrove	8.0	9.0	0.22	0.30	2.64	2.00	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	
171	Avicennia marina var. australasica	Grey Mangrove	8.0	7.0	0.12	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No	Lean-Major, Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east. Prune to provide access to east side. Prune 1 x 120mm Prune
172	Avicennia marina var. australasica	Grey Mangrove	7.0	7.0	0.20	0.28	2.40	1.94	Mature	Fair	Average	Endemic	No	Lean-Major, Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east. Prune to provide access to east side. Prune 1 x 120mm Prune
173	Avicennia marina var. australasica	Grey Mangrove	6.0	9.0	0.20	0.28	2.40	1.94	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Major	Long (>40 years)	High	Asymmetric to east. Prune to provide access to east side. Prune 1 x 190mm. Prune
174	Avicennia marina var. australasica	Grey Mangrove	5.0	7.0	0.12	0.40	2.00	2.25	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Major	Long (>40 years)	High	Asymmetric to east.
175	Avicennia marina var. australasica	Grey Mangrove	9.0	7.0	0.27	0.45	3.24	2.37	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Twin trunk.
176	Avicennia marina var. australasica	Grey Mangrove	9.0	7.0	0.18	0.30	2.16	2.00	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	
177	Avicennia marina var. australasica	Grey Mangrove	8.0	7.0	0.34	1.00	4.08	3.31	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Multi trunked from base.
178	Avicennia marina var. australasica	Grey Mangrove	5.0	7.0	0.10	0.25	2.00	1.85	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Major	Long (>40 years)	High	In pathway footprint. Remove to provide path access and protect other more significant trees.
179	Avicennia marina var. australasica	Grey Mangrove	9.0	7.0	0.29	0.50	3.48	2.47	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	
180	Avicennia marina var. australasica	Grey Mangrove	5.0	4.0	0.10	0.30	2.00	2.00	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
181	Avicennia marina var. australasica	Grey Mangrove	8.0	7.0	0.28	0.50	3.36	2.47	Mature	Fair	Average	Endemic	Yes	Deadwood-Major	Long (>40 years)	High	Prune major dead wood branch to east for pathway access.
182	Avicennia marina var. australasica	Grey Mangrove	9.0	8.0	0.28	0.40	3.36	2.25	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	Prune end of eastern lower branch. Prune 1 x 70mm. Prune
183	Avicennia marina var. australasica	Grey Mangrove	8.0	7.0	0.15	0.22	2.00	1.75	Mature	Fair	Average	Endemic	No	Lean-Major, Very Asymmetric Form	Long (>40 years)	High	Major but sweep to east.
184	Avicennia marina var. australasica	Grey Mangrove	8.0	7.0	0.15	0.22	2.00	1.75	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Major	Long (>40 years)	High	Asymmetric to east.
185	Avicennia marina var. australasica	Grey Mangrove	9.0	3.0	0.14	0.21	2.00	1.72	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	
186	Avicennia marina var. australasica	Grey Mangrove	10.0	6.0	0.22	0.30	2.64	2.00	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
187	Avicennia marina var. australasica	Grey Mangrove	8.0	3.0	0.11	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
188	Avicennia marina var. australasica	Grey Mangrove	8.0	3.0	0.10	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
189	Avicennia marina var. australasica	Grey Mangrove	4.0	2.0	0.05	0.05	2.00	0.94	Mature	Poor	Average	Endemic	No	Major Wounding	Long (>40 years)	Moderate	
190	Avicennia marina var. australasica	Grey Mangrove	8.0	4.0	0.15	0.25	2.00	1.85	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
191	Angophora floribunda	Rough-barked Apple	13.0	10.0	0.37	0.45	4.44	2.37	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
192	Glochidion ferdinandi	Cheese Tree	13.0	8.0	0.33	0.38	3.96	2.20	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
193	Glochidion ferdinandi	Cheese Tree	11.0	8.0	0.23	0.40	2.76	2.25	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
194	Pinus taeda	Loblolly Pine	19.0	8.0	0.41	0.55	4.92	2.57	Mature	Fair	Average	Invasive	No	Very Asymmetric Form	Long (>40 years)	Nil / Remove	Asymmetric to south west.
195	Pinus taeda	Loblolly Pine	19.0	8.0	0.31	0.42	3.72	2.30	Mature	Fair	Average	Invasive	No	Very Asymmetric Form	Long (>40 years)	Nil / Remove	Asymmetric to north east.
196	Pinus taeda	Loblolly Pine	17.0	8.0	0.40	0.50	4.80	2.47	Mature	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	
197	Pinus taeda	Loblolly Pine	16.0	8.0	0.40	0.50	4.80	2.47	Mature	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	
198	Glochidion ferdinandi	Cheese Tree	10.0	6.0	0.19	0.23	2.28	1.79	Mature	Fair	Average	Endemic	No	Inclusions	Long (>40 years)	Moderate	
199	Glochidion ferdinandi	Cheese Tree	10.0	6.0	0.23	0.23	2.76	1.79	Mature	Fair	Average	Endemic	No	Inclusions	Long (>40 years)	Moderate	
200	Allocasuarina littoralis	Black She-Oak	13.0	6.0	0.20	0.23	2.40	1.79	Mature	Good	Average	Endemic	No		Med (15-40 years)	Moderate	
201	Allocasuarina littoralis	Black She-Oak	11.0	6.0	0.22	0.27	2.64	1.91	Mature	Poor	Average	Endemic	No	Lean-Minor,Deadwood-Major	Med (15-40 years)	Low	
202	Allocasuarina littoralis	Black She-Oak	10.0	3.0	0.13	0.23	2.00	1.79	Semi-mature	Fair	Average	Endemic	No	Co-dominant Stems	Med (15-40 years)	Moderate	In footprint of pathway. Will require removal.
203	Allocasuarina littoralis	Black She-Oak	10.0	6.0	0.17	0.24	2.04	1.82	Mature	Poor	Average	Endemic	No	Deadwood-Minor, Tip Dieback	Med (15-40 years)	Moderate	In footprint of pathway will likely require removal.
204	Allocasuarina littoralis	Black She-Oak	13.0	6.0	0.25	0.35	3.00	2.13	Mature	Good	Average	Endemic	No		Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation.
205	Allocasuarina littoralis	Black She-Oak	12.0	6.0	0.19	0.25	2.28	1.85	Mature	Fair	Average	Endemic	No	Lean-Minor, Very Asymmetric Form	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. Asymmetric to east.
206	Allocasuarina littoralis	Black She-Oak	12.0	6.0	0.17	0.25	2.04	1.85	Mature	Fair	Average	Endemic	No		Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation.
207	Allocasuarina littoralis	Black She-Oak	12.0	3.0	0.16	0.23	2.00	1.79	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Minor	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. Asymmetric to north east.
208	Acacia elata	Mountain Cedar Wattle	16.0	8.0	0.60	0.80	7.20	3.01	Over-mature	Poor	Average	Endemic	No	Deadwood-Major, Pest/Disease	Med (15-40 years)	Low	Close to pathway. Minimise any excavation.
209	Allocasuarina littoralis	Black She-Oak	10.0	3.0	0.16	0.25	2.00	1.85	Mature	Poor	Average	Endemic	No	Asymmetric Form,Deadwood-Major	Med(15-40 years)	Low	Close to pathway. Minimise any excavation. Asymmetric to north east.
210	Acacia elata	Mountain Cedar Wattle	16.0	10.0	0.40	0.55	4.80	2.57	Over-mature	Fair	Average	Endemic	No	Deadwood, Dieback,Pest/Disease	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation.
211	Allocasuarina torulosa	Forest Oak	8.0	3.0	0.17	0.20	2.04	1.68	Semi-mature	Fair	Average	Endemic	No	Deadwood-Minor	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation.
212	Allocasuarina littoralis	Black She-Oak	11.0	8.0	0.30	0.40	3.60	2.25	Mature	Fair	Average	Endemic	No	Asymmetric Form, Deadwood-Minor	Med (15-40 years)	Moderate	Asymmetric to east.
213	Allocasuarina littoralis	Black She-Oak	12.0	3.0	0.18	0.25	2.16	1.85	Mature	Fair	Average	Endemic	No	Very Asymmetric Form, Lean-Minor	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. Asymmetric to north east.
214	Allocasuarina torulosa	Forest Oak	8.0	3.0	0.18	0.23	2.16	1.79	Mature	Poor	Average	Endemic	No	Asymmetric Form,Dieback, Deadwood	Med (15-40 years)	Low	Asymmetric to east.
215	Acacia elata	Mountain Cedar Wattle	14.0	6.0	0.35	0.50	4.20	2.47	Over-mature	Fair	Average	Endemic	No	Deadwood-Major, Pest/Disease	Med (15-40 years)	Low	Close to pathway. Minimise any excavation.
216	Acacia elata	Mountain Cedar Wattle	17.0	9.0	0.48	0.58	5.76	2.63	Mature	Good	Average	Endemic	No	Deadwood-Minor, Epicormic Growth	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation.
217	Acacia elata	Mountain Cedar Wattle	14.0	6.0	0.25	0.40	3.00	2.25	Mature	Good	Average	Endemic	No	Deadwood-Minor, Epicormic Growth	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation.
218	Acacia elata	Mountain Cedar Wattle	15.0	6.0	0.25	0.35	3.00	2.13	Mature	Good	Average	Endemic	No	Deadwood-Minor, Epicormic Growth	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation.
219	Acacia elata	Mountain Cedar Wattle	13.0	6.0	0.30	0.45	3.60	2.37	Mature	Good	Poor	Endemic	No	Deadwood-Minor, Epicormic Growth	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. A to east.
220	Acacia elata	Mountain Cedar Wattle	15.0	8.0	0.64	0.60	7.68	2.67	Mature	Good	Average	Endemic	No	Deadwood-Minor, Epicormic Growth	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation.
221	Allocasuarina littoralis	Black She-Oak	15.0	3.0	0.22	0.33	2.64	2.08	Over-mature	Poor	Average	Endemic	No	Asymmetric Form, Pest/Disease	Med (15-40 years)	Low	Close to pathway. Minimise any excavation. Asymmetric to east.
222	Allocasuarina littoralis	Black She-Oak	14.0	6.0	0.35	0.48	4.20	2.43	Mature	Fair	Average	Endemic	No	Asymmetric Form, Pest/Disease	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. Asymmetric to east.
223	Pinus taeda	Loblolly Pine	12.0	6.0	0.23	0.30	2.76	2.00	Mature	Poor	Average	Invasive	No	Deadwood-Major, Tip Dieback	Long (>40 years)	Nil / Remove	
224	Allocasuarina littoralis	Black She-Oak	14.0	8.0	0.23	0.35	2.76	2.13	Mature	Fair	Average	Endemic	No	Asymmetric Form, Deadwood-Minor	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. Asymmetric to east.
225	Allocasuarina littoralis	Black She-Oak	14.0	8.0	0.19	0.24	2.28	1.82	Mature	Fair	Poor	Endemic	No	Asymmetric Form, Deadwood-Minor	Med (15-40 years)	Low	Within footprint of pathway. Asymmetric to east. Pruned for powerlines clearance.
226	Allocasuarina littoralis	Black She-Oak	12.0	6.0	0.17	0.30	2.04	2.00	Mature	Fair	Average	Endemic	No	Asymmetric Form, Deadwood-Minor	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. Asymmetric to east.
227	Pinus taeda	Loblolly Pine	10.0	3.0	0.18	0.26	2.16	1.88	Senescent	Poor	Average	Invasive	No	Deadwood-Major, Tip Dieback	Long (>40 years)	Nil / Remove	
228	Acacia prominens	Gosford Wattle	13.0	8.0	0.20	0.33	2.40	2.08	Mature	Good	Poor	Endemic	No	Asymmetric Form, Major Wounding	Med (15-40 years)	High	Close to pathway. Minimise any excavation. Asymmetric to east.

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Surveyor: M. LAWTON — NA Field Book — NA Level Book — AHD Datum
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Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

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HORNSBY SHIRE COUNCIL
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BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

TREE SCHEDULE - SHEET 2 OF 4

Project Number: 100277
Sheet 28 of 30 — Issue 2
HSC Drawing Number: 29.31

SCHEDULE OF SURVEYED TREES (CONT)

Tree No.	Species	Common Name	Height (m)	Spread (m)	Breast Dia	Base Dia	TPZ (m)	SRZ (m)	Age Class	Current Vigour	Current Form	Tree Origin	Hollow Bearing	Noted Defects	SULE Rating	Retention Value	General comments, notes and recommendations
229	Angophora costata	Smooth-barked Apple	15.0	6.0	0.27	0.30	3.24	2.00	Mature	Fair	Average	Endemic	No	Deadwood-Minor	Long (>40 years)	Moderate	Close to pathway. Minimise any excavation.
230	Allocasuarina littoralis	Black She-Oak	11.0	5.0	0.15	0.23	2.00	1.79	Mature	Good	Average	Endemic	No	Asymmetric Form, Deadwood-Minor	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. Asymmetric to east.
231	Allocasuarina littoralis	Black She-Oak	11.0	5.0	0.38	0.50	4.56	2.47	Over-mature	Poor	Poor	Endemic	No	Dieback, Deadwood-Major,Tearouts	Med (15-40 years)	Nil / Remove	Close to pathway. Very poor specimen with top broken out. Should remove.
232	Allocasuarina littoralis	Black She-Oak	11.0	6.0	0.16	0.22	2.00	1.75	Mature	Good	Average	Endemic	No	Asymmetric Form, Deadwood-Minor	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. Asymmetric to east.
233	Pinus taeda	Loblolly Pine	12.0	4.0	0.24	0.32	2.88	2.05	Senescent	Poor	Average	Invasive	No	Deadwood-Major, Tip Dieback	Long (>40 years)	Nil / Remove	
234	Allocasuarina littoralis	Black She-Oak	11.0	6.0	0.15	0.23	2.00	1.79	Mature	Good	Average	Endemic	No	Asymmetric Form, Deadwood-Minor	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. Asymmetric to east.
235	Angophora floribunda	Rough-barked Apple	15.0	9.0	0.50	0.50	6.00	2.47	Mature	Fair	Average	Endemic	No	Epicormic growth, co-dominant stems	Long (>40 years)	Moderate	Pruned for powerlines clearance. Asymmetric to north east.
236	Glochidion ferdinandi	Cheese Tree	10.0	6.0	0.12	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	Within pathway footprint.
237	Allocasuarina littoralis	Black She-Oak	16.0	5.0	0.20	0.28	2.40	1.94	Mature	Fair	Average	Endemic	No	Deadwood-Minor	Med (15-40 years)	Moderate	Within pathway footprint. Will require removal.
238	Allocasuarina littoralis	Black She-Oak	12.0	6.0	0.25	0.30	3.00	2.00	Mature	Good	Average	Endemic	No	Very Asymmetric Form, Lean-Minor	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation. Asymmetric to north east.
239	Allocasuarina littoralis	Black She-Oak	13.0	6.0	0.24	0.34	2.88	2.10	Mature	Good	Average	Endemic	No	Deadwood-Minor	Med (15-40 years)	Moderate	Close to pathway. Minimise any excavation.
240	Glochidion ferdinandi	Cheese Tree	10.0	4.0	0.14	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	Within pathway footprint.
241	Angophora floribunda	Rough-barked Apple	16.0	9.0	0.30	0.40	3.60	2.25	Mature	Fair	Poor	Endemic	No	Epicormic Growth, Tip Dieback	Long (>40 years)	Moderate	Pruned for powerlines clearance. Asymmetric to north east.
242	Angophora floribunda	Rough-barked Apple	17.0	9.0	0.44	0.56	5.28	2.59	Mature	Fair	Poor	Endemic	No	Epicormic Growth, Tip Dieback	Long (>40 years)	Moderate	Pruned for powerlines clearance. Asymmetric to north east.
243	Angophora floribunda	Rough-barked Apple	13.0	9.0	0.40	0.50	4.80	2.47	Mature	Poor	Poor	Endemic	No	Epicormic Growth, Tip Dieback	Long (>40 years)	Low	Pruned for powerlines clearance. Asymmetric to north east.
244	Pinus taeda	Loblolly Pine	20.0	9.0	0.56	0.75	6.72	2.93	Senescent	Fair	Average	Invasive	No		Long (>40 years)	Nil / Remove	Pruned on one side for powerlines clearance.
245	Glochidion ferdinandi	Cheese Tree	12.0	6.0	0.15	0.17	2.00	1.57	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	Close to pathway. Minimise excavation.
246	Casuarina glauca	Swamp She-Oak	12.0	4.0	0.18	0.30	2.16	2.00	Semi-mature	Good	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	
247	Casuarina glauca	Swamp She-Oak	11.0	5.0	0.17	0.25	2.04	1.85	Semi-mature	Good	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	
248	Casuarina glauca	Swamp She-Oak	13.0	5.0	0.22	0.30	2.64	2.00	Semi-mature	Good	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	Moderate	
249	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.10	0.10	2.00	1.26	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Part of group near bridge and pathway entry.
250	Avicennia marina var. australasica	Grey Mangrove	7.5	4.0	0.16	0.18	2.00	1.61	Mature	Good	Average	Endemic	No		Long (>40 years)	High	
251	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.10	0.10	2.00	1.26	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
252	Aegiceras corniculatum	River Mangrove	1.5	3.0	0.10	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
253	Aegiceras corniculatum	River Mangrove	1.5	2.5	0.10	0.20	2.00	1.68	Mature	Good	Average	Endemic	No		Long (>40 years)	High	
254	Aegiceras corniculatum	River Mangrove	1.0	1.5	0.10	0.20	2.00	1.68	Mature	Good	Average	Endemic	No		Long (>40 years)	High	Within pathway footprint in order to protect gray mangrove to east. Very small tree.
255	Avicennia marina var. australasica	Grey Mangrove	7.5	4.0	0.20	0.20	2.40	1.68	Mature	Good	Average	Endemic	Yes	Deadwood-Major	Long (>40 years)	High	Prune lowest branches to west to provide pathway clearance. Prune 1 x 40mm and 1 x 70mm. Prune
256	Aegiceras corniculatum	River Mangrove	1.5	1.5	0.10	0.15	2.00	1.49	Mature	Good	Average	Endemic	No		Long (>40 years)	High	
257	Aegiceras corniculatum	River Mangrove	1.5	3.0	0.20	0.20	2.40	1.68	Mature	Good	Average	Endemic	No		Long (>40 years)	High	
258	Aegiceras corniculatum	River Mangrove	1.5	1.5	0.20	0.20	2.40	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
259	Aegiceras corniculatum	River Mangrove	1.5	1.0	0.20	0.20	2.40	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
260	Aegiceras corniculatum	River Mangrove	.0	2.0	0.20	0.20	2.40	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
261	Avicennia marina var. australasica	Grey Mangrove	5.0	4.0	0.30	1.00	3.60	3.31	Mature	Good	Average	Endemic	No	Very Asymmetric Form	Long (>40 years)	High	Minor tip prune lowest branches to west to provide pathway clearance. Asymmetric to west. Prune
262	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.10	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No	Very Asymmetric Form	Long (>40 years)	High	Asymmetric to east.
263	Aegiceras corniculatum	River Mangrove	2.5	3.0	0.20	0.20	2.40	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
264	Avicennia marina var. australasica	Grey Mangrove	6.0	5.0	0.26	0.50	3.12	2.47	Mature	Fair	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
265	Aegiceras corniculatum	River Mangrove	1.0	2.0	0.25	0.40	3.00	2.25	Mature	Poor	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
266	Aegiceras corniculatum	River Mangrove	1.0	1.0	0.15	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
267	Aegiceras corniculatum	River Mangrove	2.0	3.0	0.20	0.30	2.40	2.00	Mature	Fair	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
268	Aegiceras corniculatum	River Mangrove	1.5	2.0	0.15	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
269	Aegiceras corniculatum	River Mangrove	1.5	2.5	0.20	0.30	2.40	2.00	Mature	Fair	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
270	Aegiceras corniculatum	River Mangrove	1.5	2.0	0.20	0.30	2.40	2.00	Mature	Fair	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
271	Aegiceras corniculatum	River Mangrove	1.5	2.0	0.25	0.40	3.00	2.25	Mature	Fair	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
272	Aegiceras corniculatum	River Mangrove	2.0	4.0	0.25	0.40	3.00	2.25	Mature	Fair	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
273	Aegiceras corniculatum	River Mangrove	1.0	1.5	0.10	0.15	2.00	1.49	Semi-mature	Good	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
274	Avicennia marina var. australasica	Grey Mangrove	7.0	3.0	0.11	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
275	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.15	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
276	Avicennia marina var. australasica	Grey Mangrove	7.0	6.0	0.25	0.40	3.00	2.25	Mature	Fair	Average	Endemic	Yes		Long (>40 years)	High	
277	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.13	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Western most of a group of 3.
278	Avicennia marina var. australasica	Grey Mangrove	6.0	6.0	0.15	0.20	2.00	1.68	Mature	Fair	Average	Endemic	Yes	Tip Dieback, Major Wounding	Long (>40 years)	High	Asymmetric to south. Pruning one branch to south west for clearance. Prune 1 x 60mm. Prune
279	Aegiceras corniculatum	River Mangrove	1.5	1.5	0.10	0.12	2.00	1.36	Semi-mature	Good	Average	Endemic	No		Long (>40 years)	High	
280	Aegiceras corniculatum	River Mangrove	2.5	4.0	0.25	0.40	3.00	2.25	Mature	Good	Average	Endemic	No		Long (>40 years)	High	
281	Aegiceras corniculatum	River Mangrove	3.0	3.0	0.25	0.40	3.00	2.25	Mature	Good	Average	Endemic	No		Long (>40 years)	High	
282	Aegiceras corniculatum	River Mangrove	4.0	4.0	0.30	0.50	3.60	2.47	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
283	Avicennia marina var. australasica	Grey Mangrove	8.0	6.0	0.20	0.25	2.40	1.85	Mature	Fair	Average	Endemic	Yes	Tip Dieback, Major Wounding	Long (>40 years)	High	Numerous habitat features.
284	Avicennia marina var. australasica	Grey Mangrove	6.0	6.0	0.16	0.20	2.00	1.68	Mature	Poor	Average	Endemic	Yes	Tip Dieback, Deadwood-Major	Long (>40 years)	Low	Small tree in line of path. Remove - very poor condition.
285	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.12	0.18	2.00	1.61	Mature	Fair	Average	Endemic	Yes	Major Wounding &, deadwood	Long (>40 years)	High	Small tree in line of path. Retain if possible due to small hollows.
286	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.10	0.17	2.00	1.57	Mature	Fair	Average	Endemic	Yes	Major Wounding, Deadwood-Major	Long (>40 years)	High	Small tree in line of path. Will likely need to remove. Habitat features present.
287	Avicennia marina var. australasica	Grey Mangrove	4.0	2.0	0.10	0.10	2.00	1.26	Semi-mature	Fair	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	Very small tree. Potentially in line of path. May need to be removed
288	Avicennia marina var. australasica	Grey Mangrove	6.0	6.0	0.15	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No	Tip Dieback, Major Wounding	Long (>40 years)	High	Relatively small tree in line of path. May need to be removed.
289	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.13	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
290	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.13	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
291	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.14	0.17	2.00	1.57	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
292	Avicennia marina var. australasica	Grey Mangrove	6.0	2.0	0.11	0.15	2.00	1.49	Mature	Poor	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	
293	Avicennia marina var. australasica	Grey Mangrove	6.0	2.0	0.10	0.15	2.00	1.49	Mature	Poor	Average	Endemic	Yes	Deadwood-Major, Decay-Major	Long (>40 years)	High	
294	Avicennia marina var. australasica	Grey Mangrove	7.0	3.0	0.10	0.15	2.00	1.49	Mature	Fair	Average	Endemic	Yes	Major Wounding, Deadwood & Decay	Long (>40 years)	Moderate	
295	Avicennia marina var. australasica	Grey Mangrove	6.0	2.0	0.10	0.15	2.00	1.49	Mature	Poor	Average	Endemic	No	Deadwood-Major, Major Wounding	Long (>40 years)	Moderate	
296	Avicennia marina var. australasica	Grey Mangrove	7.0	3.0	0.10	0.15	2.00	1.49	Mature	Poor	Average	Endemic	Yes	Deadwood-Major, Decay & Wounding	Long (>40 years)	Low	Very poor condition.
297	Avicennia marina var. australasica	Grey Mangrove	7.0	3.0	0.12	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No	Major Wounding, Deadwood-Minor	Long (>40 years)	High	
298	Avicennia marina var. australasica	Grey Mangrove	6.0	6.0	0.15	0.18	2.00	1.61	Mature	Fair	Average	Endemic	Yes	Tip Dieback, Deadwood & Decay major	Long (>40 years)	High	Asymmetric to north.
299	Avicennia marina var. australasica	Grey Mangrove	6.5	4.0	0.11	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No	Deadwood-Major, Tip Dieback	Long (>40 years)	Moderate	
300	Avicennia marina var. australasica	Grey Mangrove	8.5	3.0	0.13	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No	Epicormic Growth, Deadwood-Major	Long (>40 years)	High	
301	Avicennia marina var. australasica	Grey Mangrove	9.0	4.0	0.12	0.16	2.00	1.53	Mature	Fair	Poor	Endemic	No	Very Asymmetric Form	Long (>40 years)	High	Major but sweep.
302	Avicennia marina var. australasica	Grey Mangrove	8.0	4.0	0.14	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
303	Avicennia marina var. australasica	Grey Mangrove	4.0	3.0	0.05	0.09	2.00	1.20	Mature	Good	Average	Endemic	No		Long (>40 years)	High	Very small tree. Potentially in line of pathway.
304	Casuarina glauca	Swamp She-Oak	9.0	5.0	0.17	0.22	2.04	1.75	Mature	Fair	Average	Endemic	No	Asymmetric Form, Co-dominant Stems	Long (>40 years)	Moderate	Asymmetric to east.
305	Casuarina glauca	Swamp She-Oak	4.0	4.0	0.15	0.21	2.00	1.72	Mature	Poor	Poor	Endemic	No	Very Asymmetric Form, Tip Dieback	Long (>40 years)	Low	Asymmetric to east.
306	Eucalyptus punctata	Grey Gum	10.0	8.0	0.32	0.40	3.84	2.25	Mature	Fair	Average	Endemic	No	Major Wounding, Branch Tearouts	Long (>40 years)	Moderate	Asymmetric to east.
307	Casuarina glauca	Swamp She-Oak	6.0	6.0	0.10	0.15	2.00	1.49	Mature	Fair	Poor	Endemic	No	Very Asymmetric Form, Lean-Minor	Long (>40 years)	Low	Asymmetric to east.
308	Avicennia marina var. australasica	Grey Mangrove	8.0	3.0	0.19	0.25	2.28	1.85	Mature	Fair	Average	Endemic	No	Tip Dieback	Long (>40 years)	High	Potentially in line of pathway. Retain and work around if possible.
309	Casuarina glauca	Swamp She-Oak	8.0	5.0	0.14	0.30	2.00	2.00	Mature	Fair	Average	Endemic	No	Co-dominant Stems, Lean-Minor	Long (>40 years)	Moderate	Multi trunked from base.
310	Avicennia marina var. australasica	Grey Mangrove	8.0	3.0	0.10	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
311	Avicennia marina var. australasica	Grey Mangrove	8.0	3.0	0.11	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Potentially in line of pathway, likely to require removal.
312	Avicennia marina var. australasica	Grey Mangrove	2.0	7.0	0.20	0.25	2.40	1.85	Mature	Fair	Poor	Endemic	No	Deadwood-Major, Decay-Major	Long (>40 years)	Low	Tree essentially lying on ground. Failed Casuarina through middle of tree. Very poor form. Extreme asymmetric from to north.
313	Casuarina glauca	Swamp She-Oak	10.0	3.0	0.17	0.30	2.04	2.00	Mature	Fair	Poor	Endemic	No	Deadwood-Major, Decay-Major	Long (>40 years)	Low	Failed stem to east laying horizontal to east on nearby Mangrove. Remaining stem on west at toe of bank could be retained.
314	Avicennia marina var. australasica	Grey Mangrove	2.5	2.0	0.05	0.10	2.00	1.26	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Very small tree.
315	Avicennia marina var. australasica	Grey Mangrove	7.0	7.0	0.11	0.17	2.00	1.57	Mature	Fair	Average	Endemic	No	Very Asymmetric Form	Long (>40 years)	High	Asymmetric to north east.
316	Avicennia marina var. australasica	Grey Mangrove	7.0	5.0	0.14	0.22	2.00	1.75	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
317	Angophora costata	Smooth-barked Apple	17.0	9.0	0.38	0.45	4.56	2.37	Mature	Good	Excellent	Endemic	No		Long (>40 years)	High	Growing in road bank.
318	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.05	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
319	Avicennia marina var. australasica	Grey Mangrove	7.0	4.0	0.22	0.50	2.64	2.47	Mature	Fair	Average	Endemic	Yes	Co-dominant Stems	Long (>40 years)	High	
320	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.05	0.11	2.00	1.31	Mature	Poor	Average	Endemic	No	Major Wounding, Asymmetric Form	Long (>40 years)	Moderate	Very poor vigour. Asymmetric to west.
321	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.07	0.13	2.00	1.40	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Pruning to achieve clearance. Prune 1 x 60mm. Prune
322	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.05	0.15	2.00	1.49	Mature	Poor	Average	Endemic	No	Major Wounding, Tip Dieback	Long (>40 years)	Moderate	
323	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.14	0.20	2.00	1.68	Mature	Poor	Average	Endemic	No	Co-dominant Stems, Tip Dieback	Long (>40 years)	Moderate	
324	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.10	0.20	2.00	1.68	Mature	Poor	Average	Endemic	No	Deadwood-Major, Tip Dieback	Long (>40 years)	Moderate	
325	Avicennia marina var. australasica	Grey Mangrove	6.0	5.0	0.20	0.35	2.40	2.13	Mature	Fair	Average	Endemic	No	Major Wounding, Tip Dieback	Long (>40 years)	High	
326	Avicennia marina var. australasica	Grey Mangrove	5.0	6.0	0.18	0.25	2.16	1.85	Mature	Fair	Poor	Endemic	Yes	Major Wounding, Asymmetric Form	Long (>40 years)	High	Asymmetric to west.
327	Avicennia marina var. australasica	Grey Mangrove	5.0	5.0	0.14	0.20	2.00	1.68	Mature	Fair	Average	Endemic	Yes	Tip Dieback, Deadwood-Major	Long (>40 years)	High	
328	Avicennia marina var. australasica	Grey Mangrove	6.0	2.0	0.15	0.20	2.00	1.68	Mature	Poor	Average	Endemic	No	Tip Dieback, Deadwood-Major	Long (>40 years)	Moderate	
329	Avicennia marina var. australasica	Grey Mangrove	2.0	2.0	0.05	0.10	2.00	1.26	Semi-mature	Poor	Average	Endemic	No		Long (>40 years)	Moderate	
330	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.20	0.28	2.40	1.94	Mature	Poor	Average	Endemic	Yes	Deadwood-Major, Decay-Major	Long (>40 years)	Moderate	Extensive deadwood and decay. Poor vigour.
331	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.12	0.15	2.00	1.49	Mature	Poor	Average	Endemic	No	Deadwood-Major, Decay-Major	Long (>40 years)	Moderate	
332	Avicennia marina var. australasica	Grey Mangrove	4.0	2.0	0.05	0.10	2.00	1.26	Mature	Poor	Average	Endemic	No	Deadwood-Major, Decay-Major	Long (>40 years)	Moderate	
333	Avicennia marina var. australasica	Grey Mangrove	3.0	3.0	0.15	0.22	2.00	1.75	Mature	Poor	Average	Endemic	No	Deadwood-Major, Decay-Major	Long (>40 years)	Moderate	
334	Avicennia marina var. australasica	Grey Mangrove	4.0	2.0	0.15	0.20	2.00	1.68	Mature	Poor	Average	Endemic	No	Deadwood-Major, Decay-Major	Long (>40 years)	Moderate	
335	Avicennia marina var. australasica	Grey Mangrove	6.0	4.0	0.18	0.21	2.16	1.72	Mature	Poor	Average	Endemic	No	Major deadwood, decay & wounding	Long (>40 years)	Moderate	
336	Avicennia marina var. australasica	Grey Mangrove	4.5	3.0	0.06	0.11	2.00	1.31	Mature	Poor	Average	Endemic	No	Major deadwood, decay & wounding	Long (>40 years)	Moderate	Asymmetric to north.
337	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.10	0.16	2.00	1.53	Mature	Poor	Average	Endemic	No	Major deadwood, decay & wounding	Long (>40 years)	Moderate	Asymmetric to north.
338	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.05	0.10	2.00	1.26	Mature	Poor	Poor	Endemic	No	Major deadwood and Decay	Long (>40 years)	Low	Very poor tree. Asymmetric to west.
339	Avicennia marina var. australasica	Grey Mangrove	2.0	2.0	0.06	0.11	2.00	1.31	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	
340	Avicennia marina var. australasica	Grey Mangrove	4.0	2.0	0.10	0.11	2.00	1.31	Mature	Poor	Poor	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Low	Very poor condition.
341	Avicennia marina var. australasica	Grey Mangrove	3.0	2.0	0.06	0.12	2.00	1.36	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	
342	Avicennia marina var. australasica	Grey Mangrove	3.0	2.0	0.10	0.13	2.00	1.40	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	
343	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.15	0.15	2.00	1.49	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	

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2	ISSUED FOR EIS APPROVAL	M. DRAKE		
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PO BOX 37, HORNSBY NSW 1630

BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

TREE SCHEDULE - SHEET 3 OF 4

Project Number: 100277
Sheet 29 of 30
Issue 2
HSC Drawing Number: 29.31

SCHEDULE OF SURVEYED TREES (CONT)

Tree No.	Species	Common Name	Height (m)	Spread (m)	Breast Dia	Base Dia	TPZ (m)	SRZ (m)	Age Class	Current Vigour	Current Form	Tree Origin	Hollow Bearing	Noted Defects	SULE Rating	Retention Value	General comments, notes and recommendations
344	Avicennia marina var. australasica	Grey Mangrove	4.0	2.0	0.10	0.11	2.00	1.31	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	Group of 3 small trees. Middle specimen tagged.
345	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.07	0.12	2.00	1.36	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	
346	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.06	0.11	2.00	1.31	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	
347	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.10	0.16	2.00	1.53	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	
348	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.05	0.11	2.00	1.31	Mature	Poor	Poor	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Low	Asymmetric to west
349	Avicennia marina var. australasica	Grey Mangrove	5.0	4.0	0.10	0.16	2.00	1.53	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	
350	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	High	
351	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.11	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	High	
352	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.16	0.20	2.00	1.68	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	Asymmetric to west.
353	Avicennia marina var. australasica	Grey Mangrove	5.0	7.0	0.35	1.00	4.20	3.31	Mature	Fair	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	High	Very old remnant stump regrowth, spreading trunks."
354	Avicennia marina var. australasica	Grey Mangrove	6.0	4.0	0.10	0.20	2.00	1.68	Mature	Poor	Average	Endemic	No	Major deadwood, decay & tip dieback	Long (>40 years)	Moderate	Asymmetric to north.
355	Avicennia marina var. australasica	Grey Mangrove	8.0	3.0	0.15	0.25	2.00	1.85	Mature	Fair	Average	Endemic	Yes	Major deadwood, decay & tip dieback	Long (>40 years)	High	
356	Avicennia marina var. australasica	Grey Mangrove	6.0	4.0	0.16	0.20	2.00	1.68	Mature	Fair	Average	Endemic	Yes	Major deadwood, decay & tip dieback	Long (>40 years)	High	
357	Aegiceras corniculatum	River Mangrove	2.5	3.0	0.20	0.50	2.40	2.47	Mature	Poor	Average	Endemic	No		Long (>40 years)	Moderate	
358	Aegiceras corniculatum	River Mangrove	2.0	2.0	0.15	0.30	2.00	2.00	Mature	Poor	Average	Endemic	No		Long (>40 years)	Moderate	
359	Aegiceras corniculatum	River Mangrove	1.5	2.0	0.15	0.30	2.00	2.00	Mature	Fair	Poor	Endemic	No		Long (>40 years)	Moderate	
360	Aegiceras corniculatum	River Mangrove	1.5	2.0	0.10	0.10	2.00	1.26	Mature	Poor	Average	Endemic	No		Long (>40 years)	Moderate	
360	Aegiceras corniculatum	River Mangrove	1.5	2.0	0.10	0.10	2.00	1.26	Mature	Poor	Average	Endemic	No		Long (>40 years)	Moderate	
361	Avicennia marina var. australasica	Grey Mangrove	6.0	4.0	0.12	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
362	Avicennia marina var. australasica	Grey Mangrove	4.0	6.0	0.12	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No	Lean-major very asymmetric form	Long (>40 years)	High	Likely to need pruning of 70mm diam trunk leaning towards path alignment. Prune
363	Avicennia marina var. australasica	Grey Mangrove	5.0	5.0	0.15	0.18	2.00	1.61	Mature	Good	Average	Endemic	No		Long (>40 years)	High	
364	Avicennia marina var. australasica	Grey Mangrove	6.0	6.0	0.14	0.17	2.00	1.57	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
365	Avicennia marina var. australasica	Grey Mangrove	6.0	4.0	0.21	0.50	2.52	2.47	Mature	Fair	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	High	Tri-trunked specimen from ground. Some very minor pruning may be required if boardwalk entry located in vicinity. 4 x <40mm Prune
366	Avicennia marina var. australasica	Grey Mangrove	5.0	4.0	0.11	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No	Deadwood-Minor	Long (>40 years)	High	
367	Avicennia marina var. australasica	Grey Mangrove	6.0	2.0	0.14	0.22	2.00	1.75	Mature	Poor	Average	Endemic	No	Deadwood-major co-dominant stems	Long (>40 years)	Moderate	Very sparse canopy.
368	Avicennia marina var. australasica	Grey Mangrove	6.0	4.0	0.10	0.15	2.00	1.49	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	High	
369	Avicennia marina var. australasica	Grey Mangrove	4.0	4.0	0.10	0.15	2.00	1.49	Semi-mature	Poor	Average	Endemic	No	Deadwood-minor	Long (>40 years)	Moderate	Two small specimens close together, similar in condition. Relatively poor specimens, hence moderate rating."
370	Avicennia marina var. australasica	Grey Mangrove	3.0	2.0	0.10	0.25	2.00	1.85	Semi-mature	Poor	Average	Endemic	No	Deadwood-minor Tip Dieback	Long (>40 years)	Moderate	Relatively poor specimen hence Moderate rating.
371	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.11	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
372	Avicennia marina var. australasica	Grey Mangrove	6.0	4.0	0.05	0.11	2.00	1.31	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	High	Small group of two amongst larger River Mangrove.
373	Aegiceras corniculatum	River Mangrove	2.5	4.0	0.25	0.35	3.00	2.13	Mature	Fair	Average	Endemic	No	Co-dominant Stems	Long (>40 years)	High	Relatively large specimen for River Mangrove.
374	Avicennia marina var. australasica	Grey Mangrove	3.0	2.0	0.05	0.10	2.00	1.26	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
375	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.05	0.10	2.00	1.26	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
376	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.10	0.16	2.00	1.53	Mature	Good	Average	Endemic	No		Long (>40 years)	High	Closely spaced group of two.
377	Avicennia marina var. australasica	Grey Mangrove	4.5	4.0	0.11	0.06	2.00	1.02	Mature	Poor	Average	Endemic	No	Deadwood major Wounding	Long (>40 years)	Moderate	Poor specimen. Extensive deadwood hence moderate rating.
378	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.05	0.08	2.00	1.15	Mature	Fair	Average	Endemic	No	Deadwood-Major tip dieback	Long (>40 years)	Moderate	Poor specimen. Extensive deadwood hence moderate rating.
379	Avicennia marina var. australasica	Grey Mangrove	3.0	1.5	0.03	0.05	2.00	0.94	Mature	Fair	Average	Endemic	No	Deadwood-Minor	Long (>40 years)	High	
380	Avicennia marina var. australasica	Grey Mangrove	3.0	1.5	0.03	0.05	2.00	0.94	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	High	
381	Avicennia marina var. australasica	Grey Mangrove	6.0	4.0	0.27	0.60	3.24	2.67	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Three closely spaced trunks spreading out from base.
382	Aegiceras corniculatum	River Mangrove	2.5	2.0	0.15	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
383	Avicennia marina var. australasica	Grey Mangrove	4.0	1.5	0.03	0.05	2.00	0.94	Semi-mature	Fair	Average	Endemic	No	Deadwood-minor	Long (>40 years)	High	
384	Avicennia marina var. australasica	Grey Mangrove	6.0	4.0	0.14	0.15	2.00	1.49	Mature	Fair	Average	Endemic	Yes	Deadwood-minor major wounding	Long (>40 years)	High	
385	Avicennia marina var. australasica	Grey Mangrove	5.5	4.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No	Deadwood-minor	Long (>40 years)	High	
386	Avicennia marina var. australasica	Grey Mangrove	5.0	1.0	0.07	0.10	2.00	1.26	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
387	Avicennia marina var. australasica	Grey Mangrove	5.0	1.5	0.10	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
388	Avicennia marina var. australasica	Grey Mangrove	4.5	2.0	0.08	0.10	2.00	1.26	Semi-mature	Fair	Average	Endemic	No	Major wounding decay-minor	Long (>40 years)	High	
389	Avicennia marina var. australasica	Grey Mangrove	5.0	1.5	0.05	0.10	2.00	1.26	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	High	
390	Avicennia marina var. australasica	Grey Mangrove	2.0	1.5	0.05	0.08	2.00	1.15	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	High	
391	Avicennia marina var. australasica	Grey Mangrove	5.5	5.0	0.10	0.11	2.00	1.31	Semi-mature	Fair	Average	Endemic	No	Deadwood-minor	Long (>40 years)	High	Group of two closely spaced.
392	Avicennia marina var. australasica	Grey Mangrove	5.0	4.0	0.12	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
393	Avicennia marina var. australasica	Grey Mangrove	4.5	4.0	0.10	0.11	2.00	1.31	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	High	Grouping of three within 1m of each other, amonst River Mangrove specimen.
394	Aegiceras corniculatum	River Mangrove	2.5	5.0	0.40	0.50	4.80	2.47	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
395	Avicennia marina var. australasica	Grey Mangrove	2.0	3.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Group of two closely spaced.
396	Avicennia marina var. australasica	Grey Mangrove	4.5	4.0	0.16	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No	Major wounding	Long (>40 years)	High	Group of two closely spaced.
397	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.07	0.10	2.00	1.26	Mature	Fair	Average	Endemic	No	Major wounding	Long (>40 years)	High	Group of three closely spaced.
398	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.10	0.15	2.00	1.49	Mature	Fair	Average	Endemic	Yes	Major wounding	Long (>40 years)	High	Group of three closely spaced.
399	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.11	0.16	2.00	1.53	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Group of three closely spaced.
400	Avicennia marina var. australasica	Grey Mangrove	5.0	2.0	0.05	0.07	2.00	1.08	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Group of four closely spaced.
401	Aegiceras corniculatum	River Mangrove	2.5	5.0	0.40	0.50	4.80	2.47	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
402	Avicennia marina var. australasica	Grey Mangrove	4.0	3.0	0.12	0.15	2.00	1.49	Mature	Fair	Average	Endemic	No	Deadwood-minor	Long (>40 years)	High	Group of three amongst River Mangrove specimen.
403	Avicennia marina var. australasica	Grey Mangrove	4.0	3.0	0.10	0.13	2.00	1.40	Mature	Poor	Average	Endemic	No	Deadwood-major	Long (>40 years)	Moderate	Very sparse canopy.
404	Avicennia marina var. australasica	Grey Mangrove	4.0	3.0	0.14	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
405	Avicennia marina var. australasica	Grey Mangrove	3.0	1.0	0.04	0.09	2.00	1.20	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	High	
406	Avicennia marina var. australasica	Grey Mangrove	2.5	3.0	0.08	0.10	2.00	1.26	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
407	Avicennia marina var. australasica	Grey Mangrove	6.0	3.0	0.11	0.12	2.00	1.36	Mature	Good	Average	Endemic	No		Long (>40 years)	High	
408	Avicennia marina var. australasica	Grey Mangrove	4.0	3.0	0.11	0.40	2.00	2.25	Mature	Fair	Average	Endemic	Yes	Very asymmetric form major wounding	Long (>40 years)	High	
409	Avicennia marina var. australasica	Grey Mangrove	4.0	5.0	0.18	0.20	2.16	1.68	Mature	Fair	Average	Endemic	No	Deadwood-major	Long (>40 years)	High	
410	Avicennia marina var. australasica	Grey Mangrove	4.0	3.0	0.10	0.14	2.00	1.45	Mature	Fair	Average	Endemic	No	Very asymmetric form	Long (>40 years)	High	
411	Avicennia marina var. australasica	Grey Mangrove	3.0	3.0	0.10	0.11	2.00	1.31	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
412	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.14	0.22	2.00	1.75	Mature	Fair	Average	Endemic	Yes	Deadwood-major	Long (>40 years)	High	Group of two close together.
413	Avicennia marina var. australasica	Grey Mangrove	3.5	3.0	0.17	0.25	2.04	1.85	Mature	Fair	Average	Endemic	No	Deadwood-minor major wounding	Long (>40 years)	High	
414	Avicennia marina var. australasica	Grey Mangrove	2.0	2.0	0.10	0.10	2.00	1.26	Semi-mature	Fair	Average	Endemic	No		Long (>40 years)	High	
415	Avicennia marina var. australasica	Grey Mangrove	5.5	4.0	0.15	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No	Deadwood-major decay-minor	Long (>40 years)	High	Group of five close together.
416	Avicennia marina var. australasica	Grey Mangrove	5.0	3.0	0.10	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	Group of four close together.
417	Avicennia marina var. australasica	Grey Mangrove	4.0	3.0	0.10	0.12	2.00	1.36	Mature	Poor	Average	Endemic	No	Deadwood-major	Long (>40 years)	High	Very sparse canopy.
418	Avicennia marina var. australasica	Grey Mangrove	5.5	4.0	0.12	0.14	2.00	1.45	Mature	Fair	Average	Endemic	No	Very asymmetric form lean-minor	Long (>40 years)	High	
419	Avicennia marina var. australasica	Grey Mangrove	4.0	3.0	0.14	0.17	2.00	1.57	Mature	Fair	Average	Endemic	No	Lean-minor very asymmetric form	Long (>40 years)	High	
420	Avicennia marina var. australasica	Grey Mangrove	2.0	2.0	0.05	0.10	2.00	1.26	Semi-mature	Fair	Average	Endemic	No	Very asymmetric form lean-minor	Long (>40 years)	High	
421	Avicennia marina var. australasica	Grey Mangrove	2.5	2.0	0.10	0.11	2.00	1.31	Semi-mature	Good	Average	Endemic	No	Lean-minor very asymmetric form	Long (>40 years)	High	
422	Avicennia marina var. australasica	Grey Mangrove	4.0	4.0	0.14	0.25	2.00	1.85	Mature	Good	Average	Endemic	Yes	Deadwood-major	Long (>40 years)	High	
423	Aegiceras corniculatum	River Mangrove	2.0	5.0	0.40	0.60	4.80	2.67	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
424	Avicennia marina var. australasica	Grey Mangrove	4.0	3.0	0.11	0.12	2.00	1.36	Mature	Fair	Average	Endemic	No	Lean-minor deadwood-minor	Long (>40 years)	High	Relatively sparse canopy. If this specimen is removed it will provide ample space for boardwalk.
425	Aegiceras corniculatum	River Mangrove	2.0	3.0	0.15	0.20	2.00	1.68	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
426	Avicennia marina var. australasica	Grey Mangrove	4.0	5.0	0.15	0.20	2.00	1.68	Mature	Fair	Average	Endemic	Yes	Major wounding deadwood-major	Long (>40 years)	High	Sparse canopy. Very multitrunked from base.
427	Avicennia marina var. australasica	Grey Mangrove	7.0	3.0	0.20	0.45	2.40	2.37	Mature	Fair	Average	Endemic	No	Co-dominant stems	Long (>40 years)	High	Multi-trunked from base.
428	Avicennia marina var. australasica	Grey Mangrove	7.0	3.0	0.14	0.22	2.00	1.75	Mature	Fair	Average	Endemic	No		Long (>40 years)	High	
429	Casuarina glauca	Swamp She-Oak	9.0	3.0	0.15	0.19	2.00	1.65	Mature	Fair	Average	Endemic	No		Long (>40 years)	Moderate	
430	Avicennia marina var. australasica	Grey Mangrove	5.0	6.0	0.16	0.18	2.00	1.61	Mature	Fair	Average	Endemic	No	Very asymmetric form	Long (>40 years)	High	Asymmetric to south. Some selective pruning acceptable if required for boardwalk clearances. Possible pruning of 3 x 60mm branches. Prune

NOTES:

1. TREES SHOWN ON THESE DRAWINGS NUMBERED FROM 500 & ABOVE HAVE NOT BEEN INCLUDED IN ARBORISTS REPORT.

2. ARBORISTS REPORT RECOMMENDS THE GENERAL REMOVAL OF PINUS TAEDA (LOBLOLLY PINE) WEEDS WITHIN THE PROJECT AREA TO IMPROVE THE OVERALL ENVIRONMENTAL OUTCOMES. THESE TREES ARE LISTED IN THIS TREE SCHEDULE. FOR THEIR REMOVAL CONSULT PROJECT ARBORIST.

PRELIMINARY
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Design Checked-Design Team Leader
Signed:
Drawn: S. COMISH
Drawing Checked
Signed:
Surveyor: M. LAWTON — NA Field Book, NA Level Book, AHD Datum
Project Identifier\-\CAD File Name: H:\\\Brooklyn Rd Bwalk_TR_12012\Design\Concept Design 2021.dwg
TRIM Document Number: XXX

Issue	Description	Name	Initial	Date
2	ISSUED FOR EIS APPROVAL	M. DRAKE		
1	ISSUED FOR INFORMATION ONLY	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

Bar Scales: NOT TO SCALE
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
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BROOKLYN SHARED PATH & BOARDWALK
SEYMOURS CREEK TO KANGAROO POINT

TREE SCHEDULE - SHEET 4 OF 4

Project Number: 100277
Sheet 30 of 30
Issue 2
HSC Drawing Number: 29.31