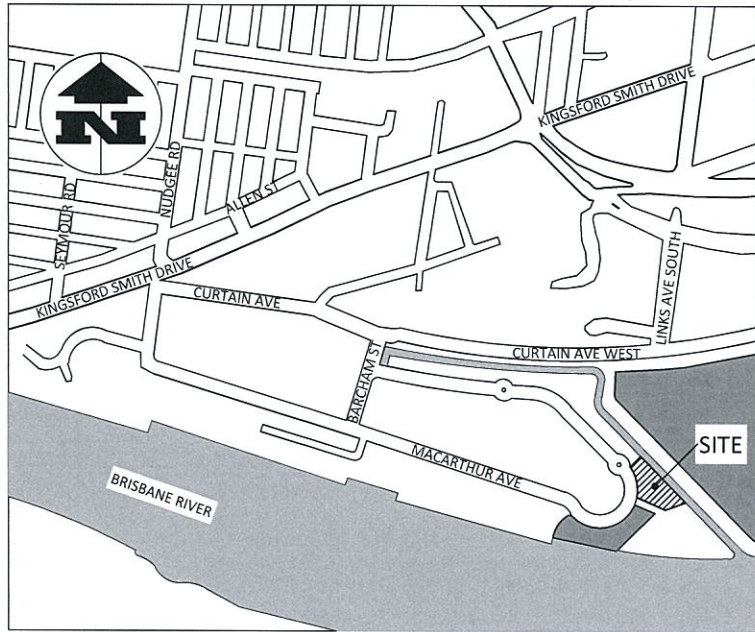




LOCALITY MAP
STREET ADDRESS: MACARTHUR AVENUE, NORTHSORE LOT 8 PRECINCT, HAMILTON, QLD
N.T.S

DRAWING INDEX

C000	DRAWING LIST AND LOCALITY PLAN
C001	CONTROL LINE SETOUT
C010	EARTHWORKS LAYOUT, NOTES AND DETAILS
C020	EROSION & SEDIMENT CONTROL LAYOUT, NOTES AND DETAILS
C030	FOOTPATH LAYOUT
C031	TREE REMOVAL TRIM AND TIDAL PLAN
C040	FOOTPATH LONGITUDINAL AND TYPICAL CROSS SECTIONS
C041	FOOTPATH CROSS SECTIONS SHEET 1
C042	FOOTPATH CROSS SECTIONS SHEET 2
C043	FOOTPATH CROSS SECTIONS SHEET 3

BCC STANDARD DRAWING LIST

ROADWORKS	
CONCRETE FOOTPATH	
UMS 232	CONCRETE FOOTPATH FULL WIDTH
UMS 252	BIKEPATH PAVEMENT JOINTS
LANDSCAPE	
TREE ROOT PROTECTION	
UMS 522	CRITICAL ROOT ZONE
UMS 523	ROOT DEFLECTOR INSTALLATION ADJACENT TO EXISTING ROAD AND STRUCTURES
UMS 525	ROOT PROTECTION ADJACENT TO CONCRETE BIKEPATHS
UMS 526	PROVISION FOR TREE ROOTS UNDER CONCRETE FOOTPATHS/BIKE PATHS
STREET TREE PROTECTION	
UMS 531	GUIDELINES FOR GANTRY TREATMENTS AT TREE LOCATIONS
PARKS	
BOLLARDS, FENCING AND RETAINING WALLS	
UMS 722	BOLLARD - ANGLED TOP HARDWOOD AND DOME-TOPPED
ROADS PATHS AND STEPS	
UMS 743	PATHS AND PAVEMENT AREAS - CONCRETE AND EXPOSED AGGREGATE

NORTHSORE HAMILTON MANGROVE WALK

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

-2 JUN 2014

MEDQ

STANDARD NOTES

1. GENERAL

- 1.1. NO WORK IS TO COMMENCE ON SITE UNTIL APPROVAL TO PROCEED HAS BEEN GIVEN BY THE SUPERINTENDENT.
- 1.2. THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND STANDARD DRAWINGS LISTED. THE SUPERINTENDENT WILL ON REQUEST RESOLVE ANY POINT OF CONFLICT. DIMENSIONS ARE NOT TO BE SCALED.
- 1.3. WHERE A JUNCTION IS TO BE MADE TO EXISTING CONSTRUCTION THE CONTRACTOR SHALL CONFIRM THE LOCATION AND LEVEL OF THIS CONSTRUCTION PRIOR TO COMMENCING WORK ON ANY CRITICAL SECTION. THE SUPERINTENDENT MAY VARY LEVELS AND GRADIENTS OF NEW WORKS TO ACHIEVE A SATISFACTORY CONNECTION. ALL CONSTRUCTION WORK SHALL COMPLY WITH THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT (CURRENT VERSION). CONTACT YOUR NEAREST OFFICE OF THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. Ph: 1300 369 915
- 1.4. THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICAL MEASURES TO PREVENT OR REDUCE HARM TO THE ENVIRONMENT AS SET OUT IN THE ENVIRONMENTAL PROTECTION ACT (CURRENT VERSION).
- 1.5. THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICAL MEASURES TO PREVENT OR REDUCE HARM TO THE ENVIRONMENT AS SET OUT IN THE ENVIRONMENTAL PROTECTION ACT (CURRENT VERSION).

2. SERVICES NOTES

- 2.1. LOCATION & PROTECTION
THE LOCATION OF SERVICES SHOWN ON THESE PLANS HAS BEEN APPROXIMATED FROM KNOWN POSITIONS OF VALVES, INSPECTION/ACCESS CHAMBERS, ETC AND INFORMATION SUPPLIED BY SERVICES AUTHORITIES. DETAILS OF SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SUPPLIED.
THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL SERVICES WITH THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK AND PROVIDING ALL NECESSARY MEASURES TO PROTECT ALL SERVICES DURING THE COURSE OF THE WORK.
- 2.2. AUTHORITY SERVICES CONFLICTS
SERVICE RELOCATIONS ARE SHOWN WHERE KNOWN. THE CONTRACTOR IS TO LOCATE, AND IF NECESSARY LEVEL, ALL SERVICES IN THE AREA OF THE WORKS PRIOR TO CONSTRUCTION. THE SUPERINTENDENT IS TO BE ADVISED IMMEDIATELY OF ANY UNIDENTIFIED CONFLICTS.
- 2.3. TELECOMMUNICATION CABLE
NO WORK IS TO BE CARRIED OUT WITHIN 3.0m OF CABLE IN URBAN AREAS AND 10.0m IN RURAL AREAS, WITHOUT FIRST CONSULTING THE RELEVANT AUTHORITY. THE CONTRACTOR IS TO MANUALLY EXPOSE AND PROTECT THE SERVICE WHEN EXCAVATING, OR WORKING, CLOSER TO TELECOMMUNICATION PLANT THAN THE ABOVE DISTANCES.

3. TRAFFIC CONTROL

- 3.1. TRAFFIC CONTROL IS TO BE IN ACCORDANCE WITH THE QUEENSLAND TRANSPORT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CURRENT ISSUE). IF REQUESTED BY THE SUPERINTENDENT THE CONTRACTOR IS REQUIRED TO PROVIDE FOR APPROVAL TRAFFIC MANAGEMENT PLANS DETAILING THE TRAFFIC MOVEMENTS TO BE PROVIDED, THEIR STAGING, AND THE SIGNAGE ADOPTED IN EACH STAGE.

ENVIRONMENTAL NOTES

1. VEGETATION PROTECTION

- 1.1. TREES LOCATED ALONG THE FOOTPATH SHOULD BE, WHERE POSSIBLE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- 1.2. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD, GIRDLES SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED & ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTIONS & REMAIN UNTIL COMPLETION.
- 1.3. WHERE POSSIBLE, TREE ROOTS SHOULD BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHOULD BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT COUNCIL ARBORIST FOR FURTHER ADVICE.
- 1.4. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY COUNCIL'S METROPOLITAN TREE SERVICES.

2. SOIL

- 2.1. TOPSOIL & SUBSOIL SHOULD BE STOCKPILED SEPARATELY.
- 2.2. CARE SHOULD BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

3. REHABILITATION

- 3.1. PREDISTURBANCE SOIL PROFILES & COMPACTION LEVELS ARE TO BE REINSTATED.
- 3.2. PREDISTURBANCE VEGETATION PATTERNS SHOULD BE RESTORED. FOR FURTHER INFORMATION CONTACT THE LOCAL COUNCIL.

NOTE

ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

CONTRACTOR SHALL COORDINATE WITH ELECTRICAL, COMMUNICATIONS, FIRE, HYDRAULIC SERVICES AND LANDSCAPE CONSULTANT'S DRAWINGS FOR LOCATIONS OF PROPOSED OR RETAINED SERVICES. NO PAVING OR KERB IS TO BE PLACED UNTIL ALL SERVICES UNDER HAVE BEEN PLACED AND TESTED.

SURVEY CONTROL

PSM: 77618
(LOCATED: UNKNOWN)
RL: 4.114 AHD

R.P. DESCRIPTION

LOT 100 - 112 on SP 224971
PARISH OF TOOMBUL

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REV.	DATE	AMENDMENT / ISSUE	DWN	DES	CHK	APP
C	10.03.14	FOR CONSTRUCTION/TIDAL WORKS	LD	BBE	NR	NR
B	08.11.13	FOR APPROVAL	LD	BBE	NR	NR
A	30.09.13	PRELIMINARY ISSUE	KA	KA	BBE	NR

ASSOCIATED CONSULTANTS

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RPEQ
DATE: 10/03/14

CHECKED

M. Kogis
DATE: 10/03/14

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CONSULT AUSTRALIA
Member Firm

CLIENT
ECONOMIC
DEVELOPMENT
QUEENSLAND (EDQ)

PROJECT
MANGROVE WALK
NORTHSORE HAMILTON

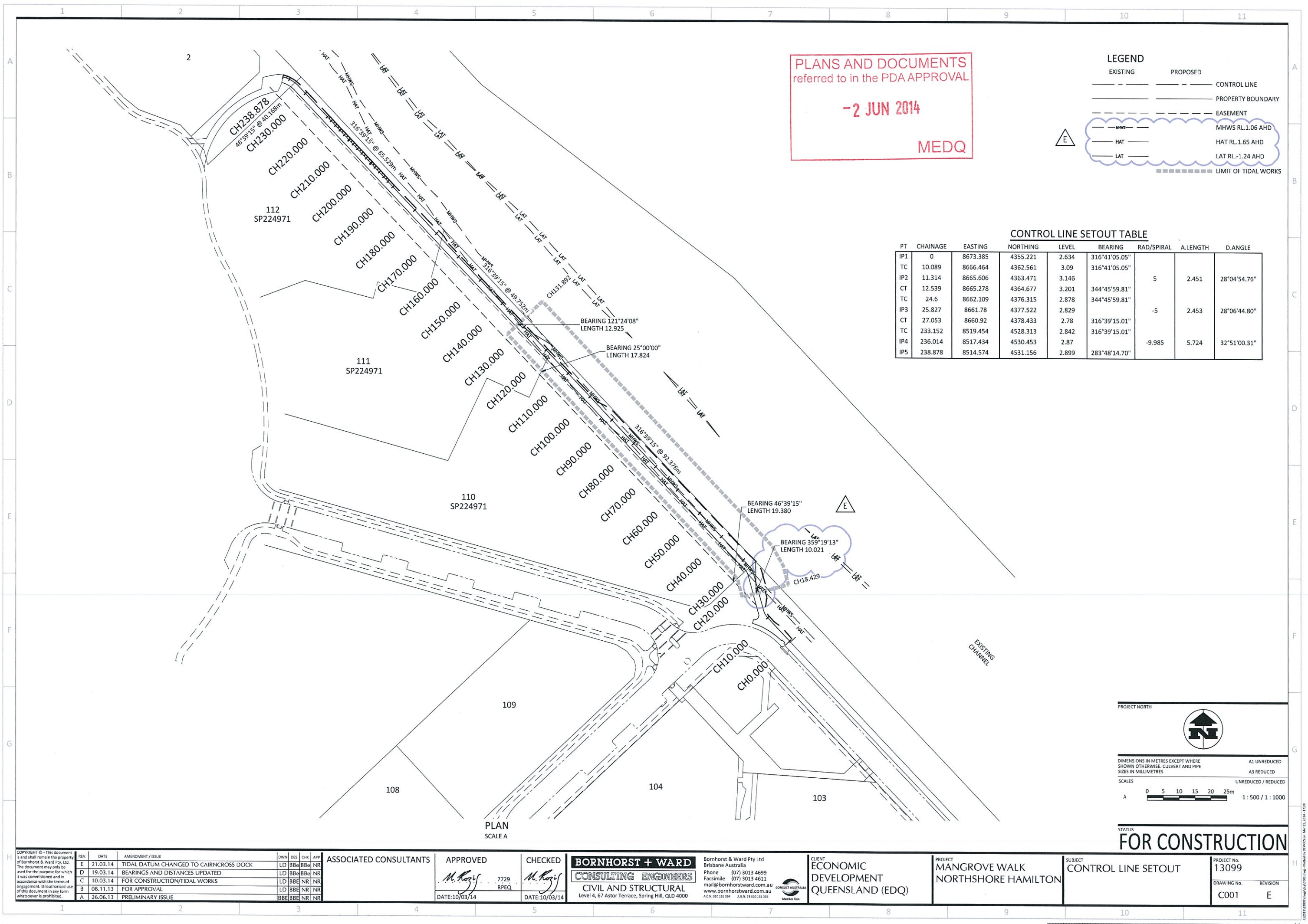
SUBJECT
DRAWING LIST AND
LOCALITY PLAN

STATUS

FOR CONSTRUCTION

PROJECT No.
13099

DRAWING No. C000
REVISION C



PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

-2 JUN 2014

MEDQ

LEGEND

EXISTING PROPOSED

CONTROL LINE

PROPERTY BOUNDARY

EASEMENT

MHWS RL.1.06 AHD

HAT RL.1.65 AHD

LAT RL.-1.24 AHD

LIMIT OF TIDAL WORKS

CONTROL LINE SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH	D.ANGLE
IP1	0	8673.385	4355.221	2.634	316°41'05.05"			
TC	10.089	8666.464	4362.561	3.09	316°41'05.05"			
IP2	11.314	8665.606	4363.471	3.146		5	2.451	28°04'54.76"
CT	12.539	8665.278	4364.677	3.201	344°45'59.81"			
TC	24.6	8662.109	4376.315	2.878	344°45'59.81"			
IP3	25.827	8661.78	4377.522	2.829		-5	2.453	28°06'44.80"
CT	27.053	8660.92	4378.433	2.78	316°39'15.01"			
TC	233.152	8519.454	4528.313	2.842	316°39'15.01"			
IP4	236.014	8517.434	4530.453	2.87		-9.985	5.724	32°51'00.31"
IP5	238.878	8514.574	4531.156	2.899	283°48'14.70"			

PROJECT NORTH

DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CULVERT AND PIPE SIZES IN MILLIMETRES

A1 UNREDUCED
A3 REDUCED

UNREDUCED / REDUCED

0 5 10 15 20 25m

1 : 500 / 1 : 1000

STATUS

FOR CONSTRUCTION

PROJECT No. 13099

DRAWING No. C001

REVISION E

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REV.	DATE	AMENDMENT / ISSUE	DWN	DES	CHK	APP
E	21.03.14	TIDAL DATUM CHANGED TO CAIRNCROSS DOCK	LD	BB	BB	NR
D	19.03.14	BEARINGS AND DISTANCES UPDATED	LD	BB	BB	NR
C	10.03.14	FOR CONSTRUCTION/TIDAL WORKS	LD	BB	BB	NR
B	08.11.13	FOR APPROVAL	LD	BB	BB	NR
A	26.06.13	PRELIMINARY ISSUE	BB	BB	BB	NR

ASSOCIATED CONSULTANTS

APPROVED

DATE:10/03/14

CHECKED

DATE:10/03/14

BORNHORST + WARD

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CLIENT

ECONOMIC DEVELOPMENT QUEENSLAND (EDQ)

PROJECT

MANGROVE WALK NORTHSHORE HAMILTON

SUBJECT

CONTROL LINE SETOUT

EARTHWORKS PERFORMANCE NOTES

- THESE NOTES ARE TO BE READ IN CONJUNCTION WITH AS3798 (2007) - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS, MRTS04 - MAIN ROADS SPECIFICATION FOR GENERAL EARTHWORKS AND THE BUILDING EARTHWORKS SPECIFICATION PROVIDED FOR THIS PROJECT.
- FILL MATERIAL GENERALLY IS TO BE INORGANIC, NON-PERISHABLE CLEAN FILL MATERIAL WITH NO CONTAMINANTS.
(SULPHUR CONTENT: DO NOT PROVIDE FILLING WITH SULPHUR CONTENT EXCEEDING 0.5% WITHIN 500 MM OF CEMENT BOUND ELEMENTS (FOR EXAMPLE CONCRETE STRUCTURES OR MASONRY) UNLESS SUCH ELEMENTS ARE PROTECTED BY IMPERMEABLE MEMBRANES OR EQUIVALENT MEANS).
- STRUCTURAL FILL SHALL EXCLUDE MATERIALS SUCH AS;
 - ORGANIC SOILS;
 - MATERIALS CONTAMINATED THROUGH PAST SITE USAGE;
 - MATERIALS WHICH CONTAIN SUBSTANCES WHICH CAN BE DISSOLVED OR LEACHED OUT, OR WHICH UNDERGO VOLUME CHANGE OR LOSS OF STRENGTH WHEN DISTURBED AND EXPOSED TO MOISTURE;
 - SILTS OR SILT-LIKE MATERIALS;
 - CLAY MATERIALS OR MATERIALS CONTAINING TRACES OF CLAY
 - FILL CONTAINING WOOD, METAL, PLASTIC, BOULDERS OR OTHER DELETERIOUS MATERIAL.
- ALL FILL IMPORTED ONTO THE SITE IS TO BE FROM SUITABLE SOURCES AS APPROVED BY THE SUPERVISING GEOTECHNICAL ENGINEER AND SUPERINTENDENT.
- FILL RESULTING FROM SPOIL RECOVERED FROM SITE EXCAVATIONS; OR BORROW MATERIAL FROM DESIGNATED BORROW PITS IS TO BE CONFIRMED BY THE GEOTECHNICAL ENGINEER ON ITS SUITABILITY AS FILL MATERIAL.
- FILL TYPES
IMPORTED SELECT FILL: GRANULAR MATERIAL COMPLYING WITH MAIN ROADS SPECIFICATION FOR EARTHWORKS MRTS04 AND THE FOLLOWING:
 - a. MAXIMUM PARTICLE SIZE: 75 MM.
 - b. PROPORTION PASSING 0.075 MM SIEVE: 25% MAXIMUM.
 - c. PLASTICITY INDEX: 2%, 12%.
 - d. WEIGHTED PLASTICITY <140 (WPI)
 - e. MINIMUM CBR 15
 - f. SHRINK-SWELL INDEX ISS = 1%.
- COMPACTION - ALL FILL MATERIAL PLACED UNDER STRUCTURES AND PAVEMENTS ARE TO BE COMPACTED IN ACCORDANCE WITH AS3798 AND THE "BUILDING EARTHWORKS SPECIFICATION" PROVIDED FOR THIS PROJECT. NOTWITHSTANDING THE ABOVE;
 - COMPACT ALL MATERIAL TO A MINIMUM 98% STANDARD COMPACTION WITH A MOISTURE CONTENT WITHIN +/-5% OMC.
 - FILL IS TO BE COMPACTED IN LAYERS NOT EXCEEDING 250mm IN DEPTH.
 - PLACEMENT AND COMPACTION OF STRUCTURAL FILL MATERIAL UNDER BUILDING ZONES IS TO ENSURE A MINIMUM BEARING CAPACITY OF 100 kPa UNDER ALL FOOTINGS AND GROUND BEAMS.

EARTHWORKS NOTES

- NOTWITHSTANDING THE LIMITS OF CUTTING & FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT AT THE PRE-START MEETING, ALTERATIONS TO THE EARTHWORKS MAY BE INSTRUCTED BY THE SUPERINTENDENT DURING CONSTRUCTION. FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY THE WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.
- REFER TO THE SPECIFICATION FOR COMPACTION DETAILS. ALL FILL MATERIALS WILL BE PLACED IN ACCORDANCE WITH THE APPROVED SPECIFICATION.
- EXCAVATED MATERIAL NOT REQUIRED FOR ROADWORKS OR NOMINATED SITE FILLING SHALL BE LOCATED ON SITE AS DIRECTED BY THE SUPERINTENDENT.
- ALL SITE PREPARATION SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3798-2007, "GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMENTS".
- WHERE UNSUITABLE MATERIAL IN AREAS TO BE FILLED IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE SPECIFICATION.
- LEVEL 1 INSPECTION & TESTING IS TO BE IMPLEMENTED ON THE SITE IN ACCORDANCE WITH AS 3798-2007 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMENTS". THE INSPECTION & TESTING AUTHORITY IS TO PROVIDE A COMPLIANCE CERTIFICATE & REPORT SETTING OUT THE INSPECTIONS, SAMPLING & TESTING CARRIED OUT DURING THE BULK EARTHWORKS.
- THE TOTAL COST OF THE GEOTECHNICAL INSPECTION & TESTING AUTHORITY (GITA) FOR THE LEVEL 1 INSPECTION & TESTING IS TO BE INCLUDED IN THE LUMP SUM OF THE TENDER. THE GITA IS TO MAINTAIN DAILY SITE RECORD SHEETS AS SET OUT IN AS 3798-2007.
- UNLESS NOTED OTHERWISE THE FREQUENCY OF TESTING IS TO BE IN ACCORDANCE WITH TABLE 8.1 OF AS 3798-2007.
- THE CONTRACTOR IS TO COMPLY WITH ALL REGULATIONS CONCERNING WORK HOURS, WARNING SIGNS, FENCING OR SECURITY & EMISSIONS FROM THE SITE INCLUDING DUST, WATER, SILT, NOISE & SMOKE.
- FILL BATTER SLOPES ARE TO BE OVERFILLED & TRIMMED BACK TO PROFILE. THE EARTHWORKS FOR RETAINING WALLS IN FILL IS TO BE OVERFILLED & CUT BACK TO SUIT THE RETAINING WALL & CONSTRUCTION METHODS.
- ALL VEHICLES EXITING FROM THE SITE WILL DO SO VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP. VEHICLES WILL BE CLEANED & TREATED AS TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS. REFER EROSION & SEDIMENT DRAWINGS FOR FURTHER DETAILS OF EROSION & SEDIMENT CONTROLS.

ALL THICKNESS / DEPTH OF BLINDING LAYER / SELECT FILL AND SLABS ARE INDICATIVE ONLY. CONTRACTOR TO CONFIRM / CHECK THESE THICKNESS / DEPTH WITH STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCY FOUND BETWEEN THICKNESSES / DEPTH TO BE REFERRED TO SUPERINTENDENT FOR CLARIFICATION.

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

-2 JUN 2014

MEDQ

LEGEND

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KERB AND CHANNEL

KERB ONLY

PROPERTY BOUNDARY

EASEMENT

STORMWATER DRAINAGE

OPEN CHANNEL

BATTER

RETAINING WALL

CONTOURS

SEWER

WATER

TELSTRA

UNDER GROUND POWER

FOOTPATH

TREE

TREE TO BE REMOVED

TREE TO BE TRIMMED

CUT

FILL

MHWS RL.1.06 AHD

HAT RL.1.65 AHD

LAT RL.1.24 AHD

LIMIT OF TIDAL WORKS

NOTE:
TIDAL LEVELS SOURCED FROM QUEENSLAND TIDE TABLES 2014, MARITIME SAFETY QUEENSLAND, FOR CAIRNCROSS DOCK. LEVELS TO AHD.

PROJECT NORTH



DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CULVERT AND PIPE SIZES IN MILLIMETRES

SCALES
A 0 5 10 15 20 25m
1:500 / 1:1000

STATUS
FOR CONSTRUCTION

REV	DATE	AMENDMENT / ISSUE	DWN	DES	CHK	APP
E	21.03.14	TIDAL DATUM CHANGED TO CAIRNCROSS DOCK	LD	BBe	BBe	NR
D	19.03.14	TIDAL LEVELS SOURCE REFERENCE UPDATED	LD	BBe	BBe	NR
C	10.03.14	FOR CONSTRUCTION/TIDAL WORKS	LD	BBe	NR	NR
B	08.11.13	FOR APPROVAL	LD	BBe	NR	NR
A	26.06.13	PRELIMINARY ISSUE	BBe	BBe	NR	NR

ASSOCIATED CONSULTANTS

APPROVED

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7729 RPEQ
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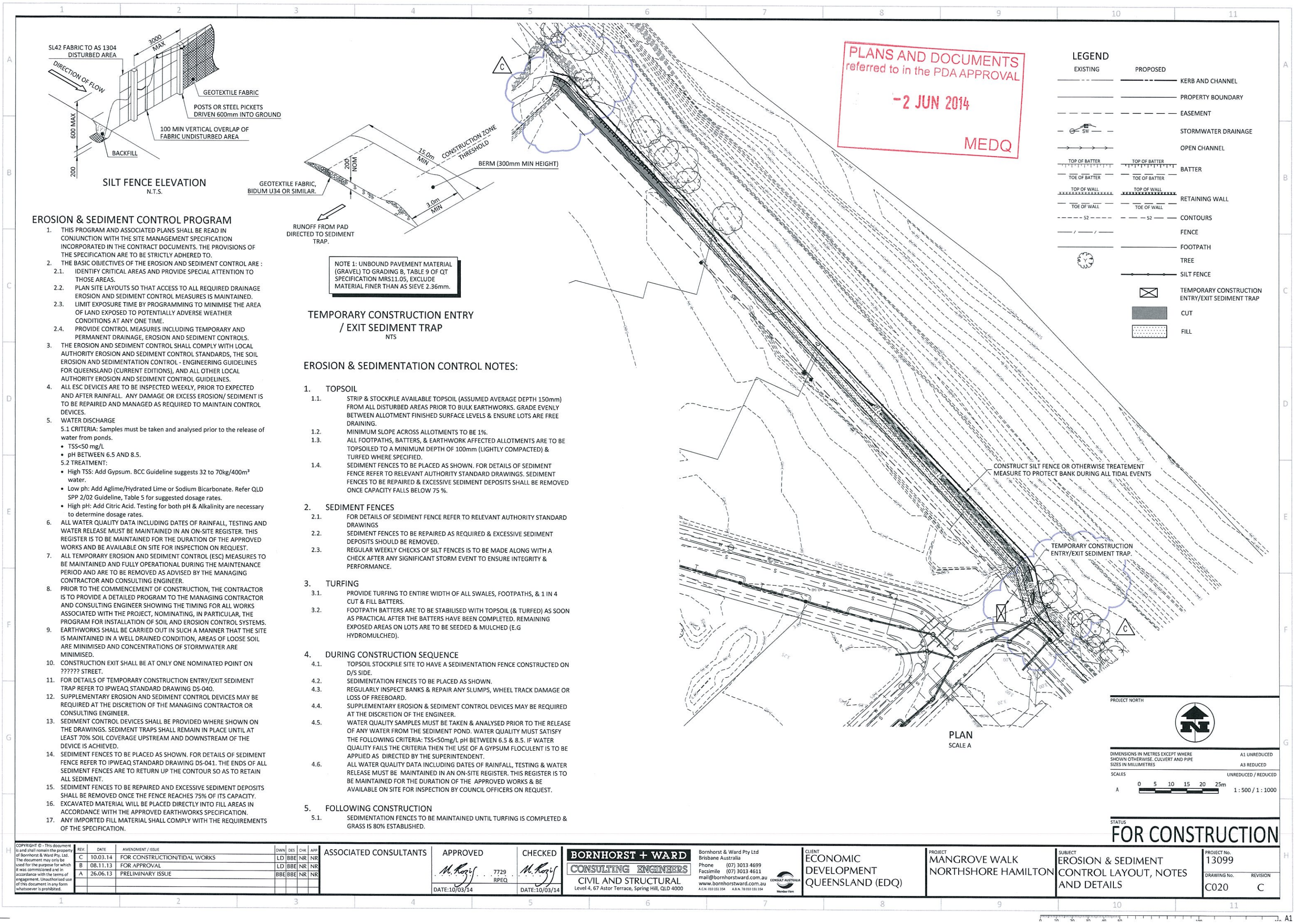
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CLIENT
ECONOMIC DEVELOPMENT QUEENSLAND (EDQ)

PROJECT
MANGROVE WALK NORTHSHORE HAMILTON

SUBJECT
EARTHWORKS LAYOUT, NOTES AND DETAILS

PROJECT No.
13099
DRAWING No.
C010
REVISION
E



1. SERVICE CONDITIONS AND PAVEMENT DESIGN
- 1.1 PAVEMENT THICKNESSES SHOWN ON THESE DRAWINGS ARE PRELIMINARY. THE SUPERINTENDENT WILL NOMINATE FINAL PAVEMENT THICKNESSES FOLLOWING DETAILED SUBGRADE EVALUATION AS NOMINATED IN THE SPECIFICATIONS.
2. MATERIALS
- 2.1 ALL CONCRETE AND REINFORCING IS TO BE IN ACCORDANCE WITH THE SAA CONCRETE STRUCTURES CODE AS 3600.
- 2.2 FLEXURAL STRENGTH AT 90 DAYS TO BE A MINIMUM OF 10% COMPRESSIVE STRENGTH.
- 2.3 MAXIMUM AGGREGATE SIZE TO BE 20mm.
3. CONSTRUCTION
- 3.1 ALL FABRIC LAPS ARE TO BE AS SHOWN BELOW AND WIRED TOGETHER AT 1000mm CENTRES.

- 3.2 BAR LAPS ARE TO BE SHOWN BELOW UNLESS NOTED OTHERWISE.

BAR	HORIZONTAL LAP	VERTICAL LAP
N12	500	500
N16	600	600

- 3.3 CONDUITS, PIPES, ETC MUST NOT BE PLACED IN COVER CONCRETE.
- 3.4 ALL REINFORCEMENT IS TO BE SUPPORTED ON CHAIRS OR HANGERS. FABRIC IS TO BE SUPPORTED AT 800mm CENTRES BOTH WAYS
- 3.5 ALL CONCRETE TO BE MECHANICALLY VIBRATED DURING PLACING.
- 3.6 INSPECTION. ALL REINFORCEMENT IS TO BE ACCURATELY POSITIONED, ADEQUATELY SUPPORTED, AND THEN INSPECTED BY THE ENGINEER BEFORE ANY CONCRETE IS PLACED.
- 3.7 CURING. AFTER POURING AND UNTIL FINAL TROWEL ALL EXPOSED SURFACES ARE TO BE SPRAYED WITH ALIPHATIC ALCOHOL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. FINAL CURING COMPOUND 'MULTICURE AC90', SUPPLIED BY LYNDON AGENCIES.
- 3.8 PAVEMENT EDGE THICKENING IS TO BE PROVIDED AT THE JOINS TO ALL FLEXIBLE PAVEMENTS.
- 3.9 ISOLATED JOINTS ARE TO BE PROVIDED AROUND ALL PENETRATIONS IN THE SLAB AND SLAB EDGES ABUTTING RIGID STRUCTURES I.E. KERBS, ACCESS CHAMBERS, ETC.
4. SIDE DRAINS & CONDUITS
- 4.1 SUB-SURFACE PAVEMENT DRAINS ARE TO BE PROVIDED BENEATH ALL KERB AND KERB AND CHANNEL UNLESS NOTED OTHERWISE. SUB-SURFACE DRAINS ARE TO BE SLEEVED IN A GEOTEXTILE SOCK.
- 4.2 THE CONTRACTOR IS TO CONFIRM THE LOCATION OF SERVICE CONDUITS WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION.

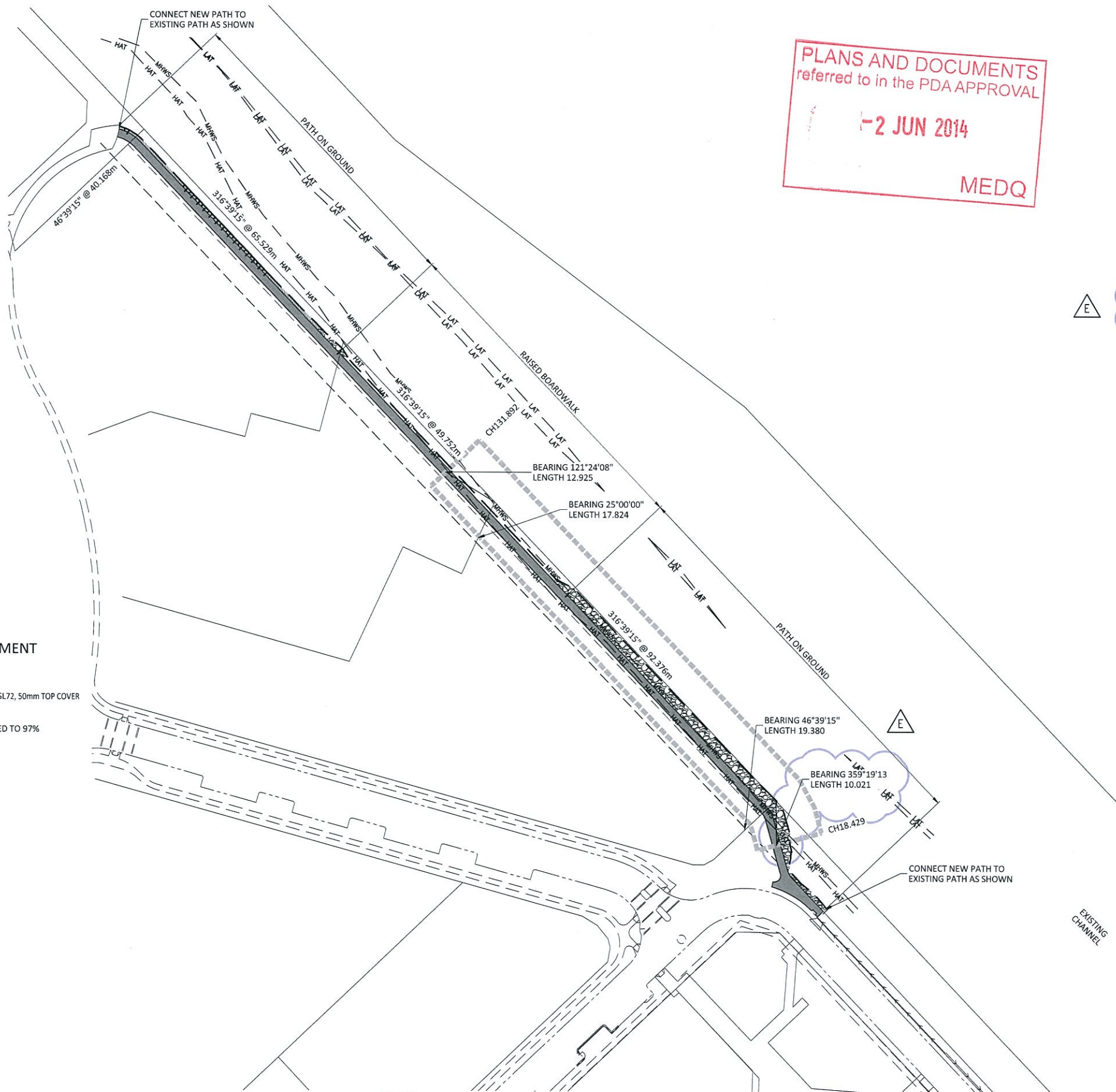
BAR	HORIZONTAL LAP	VERTICAL LAP
N12	500	500
N16	600	600

160mm N32 CONCRETE, SL72, 50mm TOP COVER

PROVISIONAL SUBGRADE LEVEL

SUB-BASE COMPACTED TO 97% MODIFIED M.D.D.

SUBGRADE



EXISTING	PROPOSED	
_____	_____	CONTROL LINE
_____	_____	PROPERTY BOUNDARY
_____	_____	EASEMENT
TOP OF BATTER	TOP OF BATTER	BATTER
TOE OF BATTER	TOE OF BATTER	FOOTPATH
		TREE
		1.8m WIDE PATH
		STONE PITCHING
		BATTER 1:4
_____ MHWS _____		MHWS RL.1.06 AHD
_____ HAT _____		HAT RL.1.65 AHD
_____ LAT _____		LAT RL.1.24 AHD
		LIMIT OF TIDAL WORKS

NOTE:
TIDAL LEVELS SOURCED FROM QUEENSLAND TIDE
TABLES 2014, MARITIME SAFETY QUEENSLAND, FOR
CAIRNCROSS DOCK. LEVELS TO AHD.

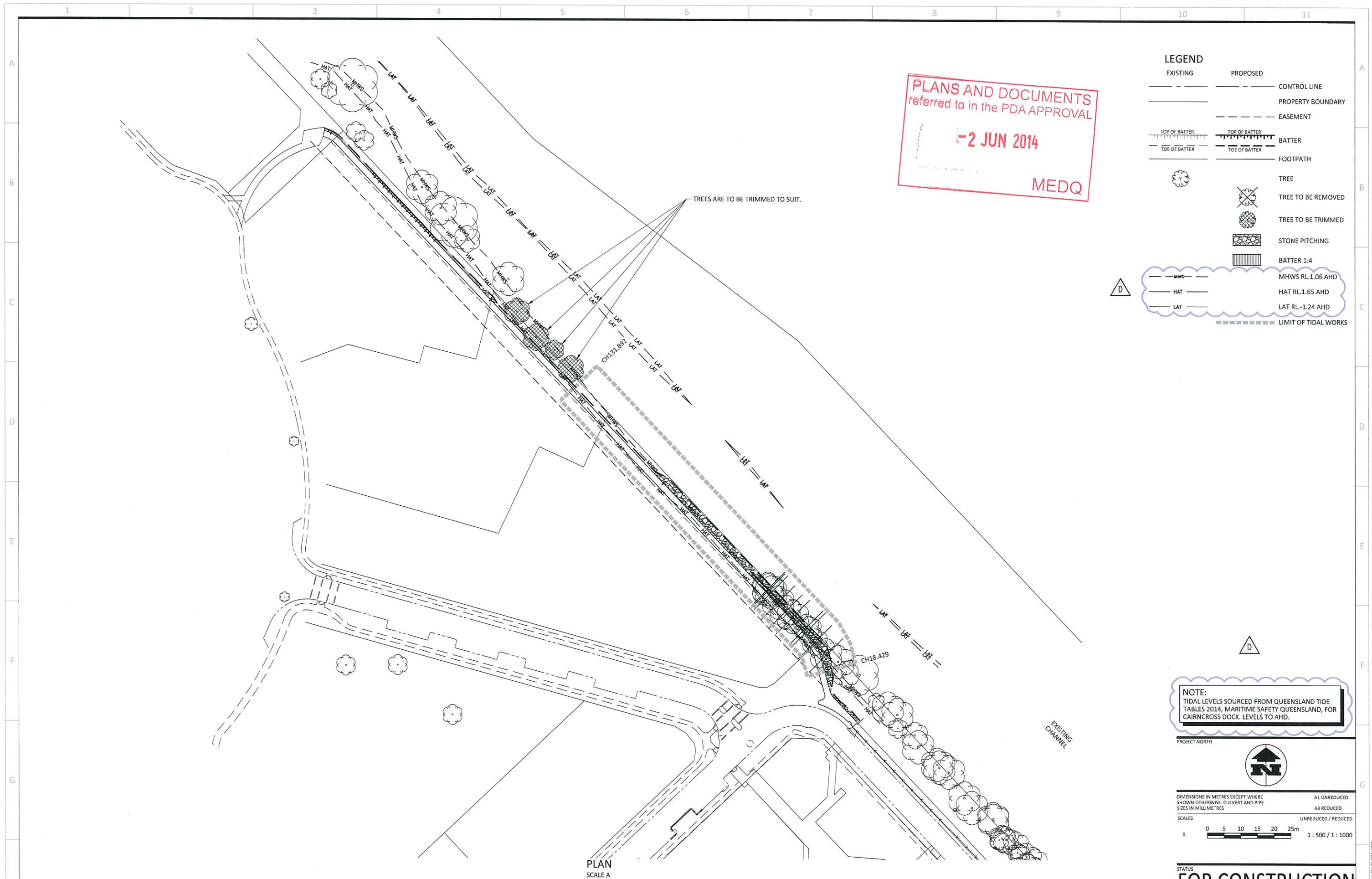


DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CULVERT AND PIPE SIZES IN MILLIMETRES	A1 UNREDUCED A3 REDUCED
--	----------------------------

SCALES UNREDUCED / REDUCED
 0 5 10 15 20 25m
 A 1: 500 / 1: 1000

STATUS
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DATE							AMENDMENT / ISSUE							DWN							DES							CHK							APP							ASSOCIATED CONSULTANTS														APPROVED														CHECKED														BORNHORST + WARD CONSULTING ENGINEERS CIVIL AND STRUCTURAL Level 4, 67 Astor Terrace, Spring Hill, QLD 4000 A.C.N. 010 151 354 A.B.N. 78 030 151 354 www.bornhorstward.com.au CONSULT AUSTRALIA Member Firm														Bornhorst & Ward Pty Ltd Brisbane Australia Phone (07) 3013 4699 Facsimile (07) 3013 4611 mail@bornhorstward.com.au www.bornhorstward.com.au														CLIENT ECONOMIC DEVELOPMENT QUEENSLAND (EDQ)														PROJECT MANGROVE WALK NORTHSHORE HAMILTON														SUBJECT FOOTPATH LAYOUT														PROJECT No. 13099														DRAWING No. REVISION C030 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LEGEND

EXISTING	PROPOSED	
---	---	CONTROL LINE
---	---	PROPERTY BOUNDARY
---	---	EASEMENT
TOP OF BATTER	TOP OF BATTER	BATTER
TOE OF BATTER	TOE OF BATTER	FOOTPATH
		TREE
		TREE TO BE REMOVED
		TREE TO BE TRIMMED
		STONE PITCHING
		BATTER 1:4
---	---	MHWS RL.1.06 AHD
---	---	HAT RL.1.65 AHD
---	---	LAT RL.-1.24 AHD
---	---	LIMIT OF TIDAL WORKS

NOTE:
TIDAL LEVELS SOURCED FROM QUEENSLAND TIDE TABLES 2014, MARITIME SAFETY QUEENSLAND, FOR CAIRNCROSS DOCK. LEVELS TO AHD.

PROJECT NORTH

DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CULVERT AND PIPE SIZES IN MILLIMETRES

SCALES: UNREDUCED / REDUCED

A 0 5 10 15 20 25m 1:500 / 1:1000

FOR CONSTRUCTION

REV.	DATE	AMENDMENT / ISSUE	DWN	DES	CHK	APP
D	21.03.14	TIDAL DATUM CHANGED TO CAIRNCROSS DOCK	LD	BBe	BBe	NR
C	19.03.14	TIDAL LEVELS SOURCE REFERENCE UPDATED	LD	BBe	BBe	NR
B	10.03.14	FOR CONSTRUCTION/TIDAL WORKS	LD	BBe	NR	NR
A	08.11.13	FOR APPROVAL	LD	BBe	NR	NR

ASSOCIATED CONSULTANTS

APPROVED: *M. Rogis* 7729 RPEQ DATE: 10/03/14

CHECKED: *M. Rogis* DATE: 10/03/14

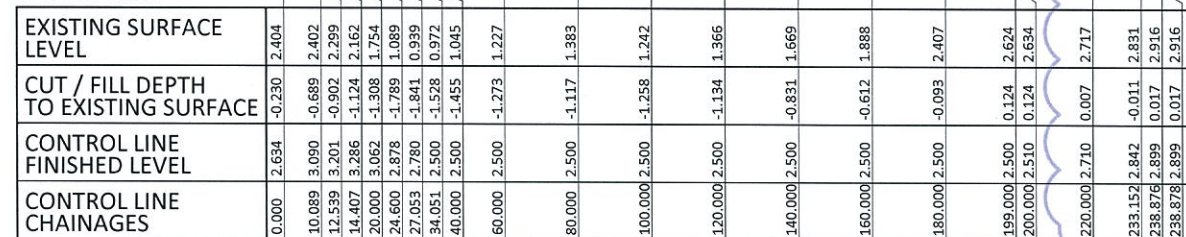
BORNHORST + WARD
CONSULTING ENGINEERS
CIVIL AND STRUCTURAL
Level 4, 67 Astor Terrace, Spring Hill, QLD 4000
Phone (07) 3013 4699
Facsimile (07) 3013 4611
mail@bornhorstward.com.au
www.bornhorstward.com.au
ACN: 650 350 391 A.B.N. 78 650 350 394

CLIENT: ECONOMIC DEVELOPMENT QUEENSLAND (EDQ)

PROJECT: MANGROVE WALK NORTHSORE HAMILTON

SUBJECT: TREE REMOVAL/ TRIM AND TIDAL PLAN

PROJECT No. 13099
DRAWING No. C031
REVISION D



SCALE A (HOR)
B (VERT)



SCALE: B



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REV.	DATE	AMENDMENT / ISSUE	DWN	DES	CHK	APP
C	10.03.14	FOR CONSTRUCTION/TIDAL WORKS	LD	BBE	NR	NR
B	08.11.13	FOR APPROVAL	LD	BBE	NR	NR
A	26.06.13	PRELIMINARY ISSUE	BBE	BBE	NR	NR

ASSOCIATED CONSULTANTS

APPROVED

M. Rozis 7729
RPEQ
DATE: 10/03/14

CHECKED

M. Rozis
DATE: 10/03/14

BORNHORST + WARD
CONSULTING ENGINEERS
CIVIL AND STRUCTURAL
Level 4, 67 Astor Terrace, Spring Hill, QLD 4000

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mail@bornhorstward.com.au
www.bornhorstward.com.au
A.C.N. 010 151 354 A.B.N. 78 010 151 354

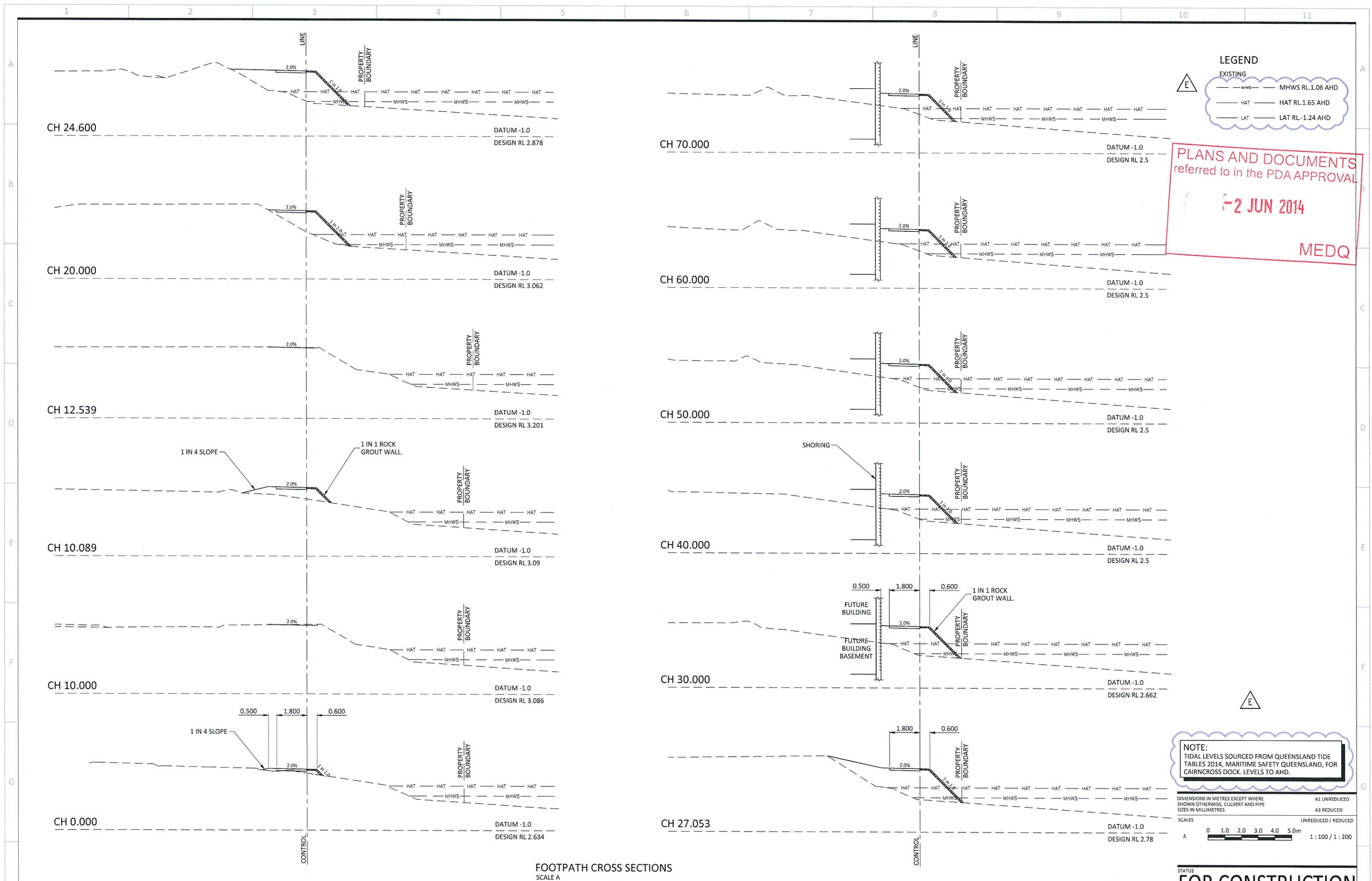


CLIENT
ECONOMIC
DEVELOPMENT
QUEENSLAND (EDQ)

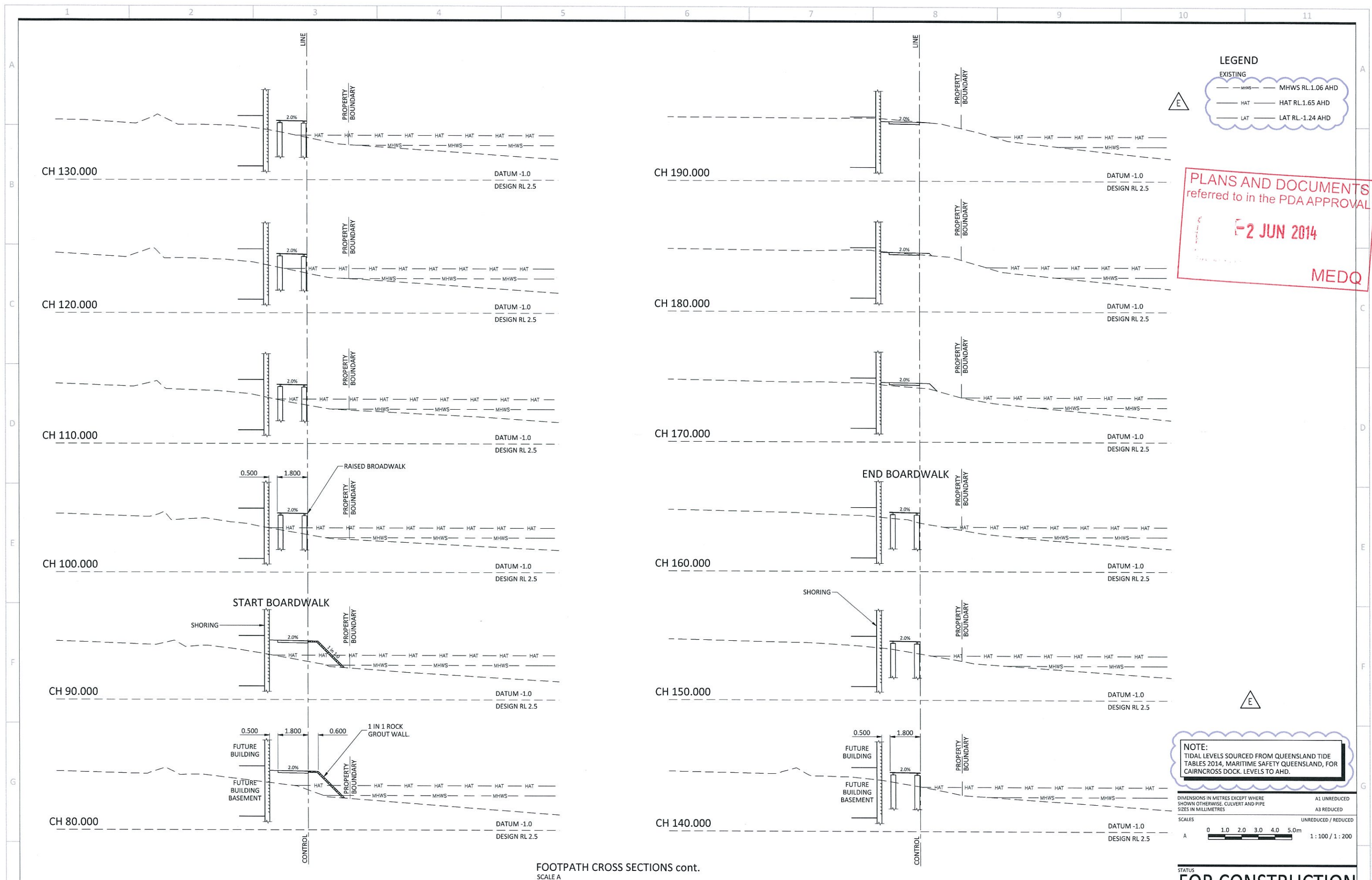
PROJECT
MANGROVE WALK
NORTHSHORE HAMILTON

SUBJECT
FOOTPATH LONGITUDINAL
AND TYPICAL CROSS
SECTIONS

PROJECT No. 13099	
DRAWING No. C040	REVISION C



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	D	21.03.14	TIDAL DATUM CHANGED TO CAIRNCROSS DOCK	LD	BBe	BBe	NR										
	E	19.03.14	TIDAL LEVELS SOURCE REFERENCE UPDATED	LD	BBe	BBe	NR										
	C	10.03.14	FOR CONSTRUCTION/TIDAL WORKS	LD	BBe	NR	NR										
	B	08.11.13	FOR APPROVAL	LD	BBe	NR	NR										
	A	26.06.13	PRELIMINARY ISSUE	BBe	BBe	NR	NR										



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	E	21.03.14	TIDAL DATUM CHANGED TO CAIRCROSS DOCK	LD	BBe	BBe	NR								
	D	19.03.14	TIDAL LEVELS SOURCE REFERENCE UPDATED	LD	BBe	BBe	NR								
	C	10.03.14	FOR CONSTRUCTION/TIDAL WORKS	LD	BBe	NR	NR								
	B	08.11.13	FOR APPROVAL	LD	BBe	NR	NR								
	A	26.06.13	PRELIMINARY ISSUE	BBe	BBe	NR	NR								

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

-2 JUN 2014

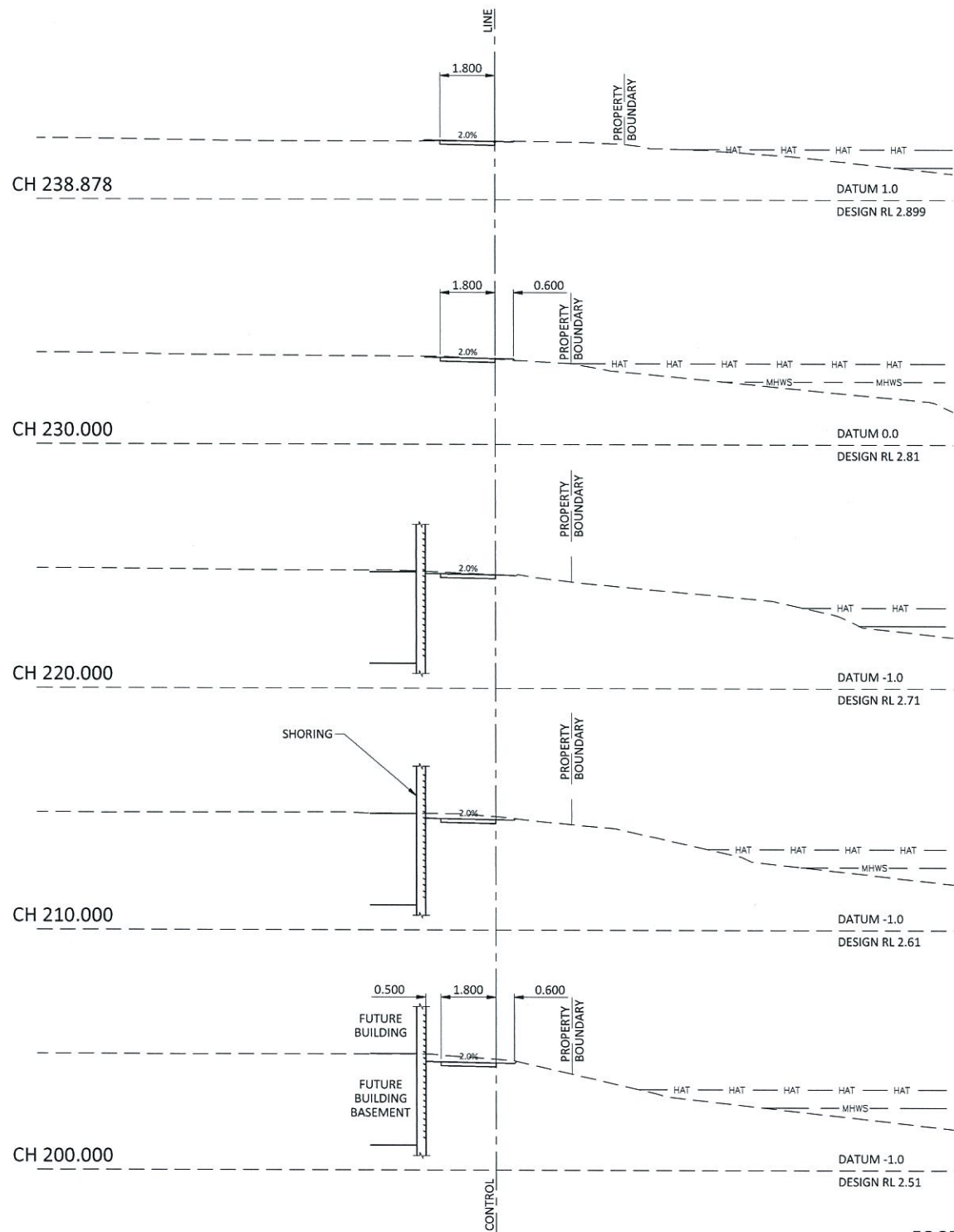
MEDQ

LEGEND

EXISTING



— MHWS — MHWS RL.1.06 AHD
— HAT — HAT RL.1.65 AHD
— LAT — LAT RL.-1.24 AHD



FOOTPATH CROSS SECTIONS cont.

SCALE A

NOTE:
TIDAL LEVELS SOURCED FROM QUEENSLAND TIDE
TABLES 2014, MARITIME SAFETY QUEENSLAND, FOR
CAIRNCROSS DOCK. LEVELS TO AHD.

DIMENSIONS IN METRES EXCEPT WHERE
SHOWN OTHERWISE. CULVERT AND PIPE
SIZES IN MILLIMETRES

SCALES UNREDUCED / REDUCED

A 0 1.0 2.0 3.0 4.0 5.0m 1:100 / 1:200

STATUS

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