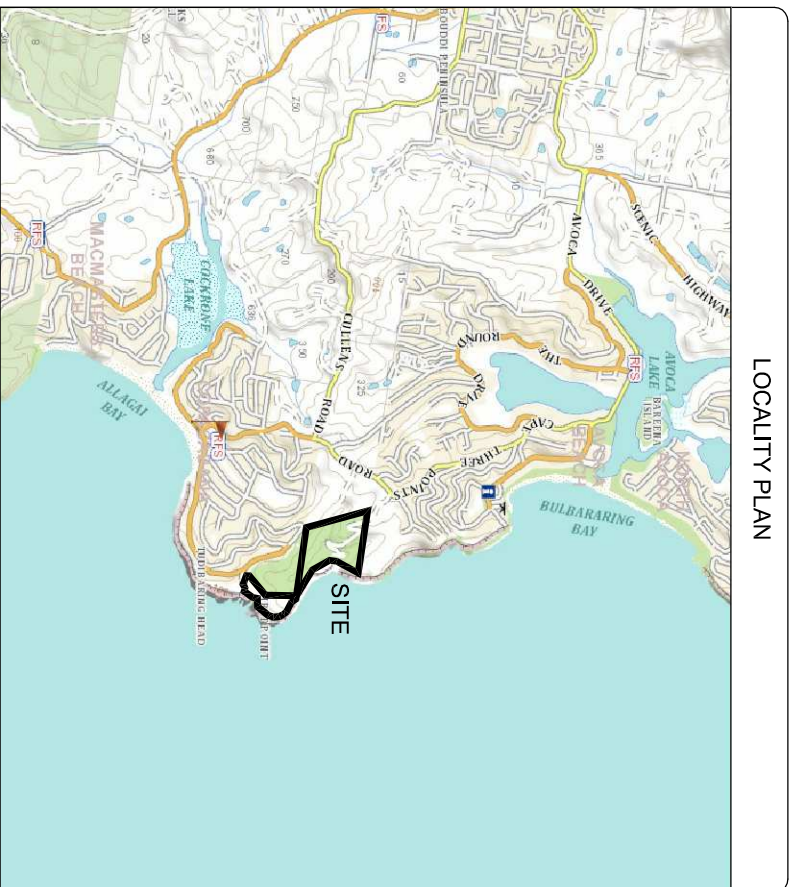




**PROPOSED WINNEY BAY CLIFFTOP WALK,
5 LANDS COASTAL WALKWAY - STAGE 5,
CAPTAIN COOK LOOKOUT - WINNEY BAY**
AT
COPACABANA, NSW
FOR
GOSFORD CITY COUNCIL
A3 SERIES - PAVEMENT PLANS, SECTIONS AND DETAILS

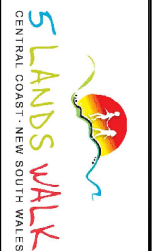


LOCALITY PLAN		DRAWING LIST	
A3.01	COVER SHEET	A3.01	COVER SHEET
A3.02	STRUCTURAL NOTES	A3.02	STRUCTURAL NOTES
A3.03	DETAIL PAVEMENT PLAN SHEET 1	A3.03	DETAIL PAVEMENT PLAN SHEET 1
A3.04	DETAIL PAVEMENT PLAN SHEET 2	A3.04	DETAIL PAVEMENT PLAN SHEET 2
A3.05	DETAIL PAVEMENT PLAN SHEET 3	A3.05	DETAIL PAVEMENT PLAN SHEET 3
A3.06	DETAIL PAVEMENT PLAN SHEET 4	A3.06	DETAIL PAVEMENT PLAN SHEET 4
A3.07	DESIGN LONG SECTION MCO1/SHEET 1	A3.07	DESIGN LONG SECTION MCO1/SHEET 1
A3.08	DESIGN LONG SECTION MCO1/SHEET 2	A3.08	DESIGN LONG SECTION MCO1/SHEET 2
A3.09	PAVEMENT DETAILS SHEET 1	A3.09	PAVEMENT DETAILS SHEET 1
A3.10	PAVEMENT DETAILS SHEET 2	A3.10	PAVEMENT DETAILS SHEET 2
A3.11	PAVEMENT DETAILS SHEET 3	A3.11	PAVEMENT DETAILS SHEET 3
A3.12	PAVEMENT DETAILS SHEET 4	A3.12	PAVEMENT DETAILS SHEET 4
A3.13	AS1428 DETAILS	A3.13	AS1428 DETAILS



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REVISION	DESCRIPTION	DATE	REVISION	DESCRIPTION	DATE
A	PRELIMINARY ISSUE TO QUANTITY SURVEYOR	05.08.15			
B	RE-ISSUE TO QUANTITY SURVEYOR	24.08.15			
C	90% ISSUE	29.08.15			
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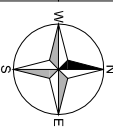


ADDRESS
 WINNEY BAY RESERVE
 COPACABANA N.S.W.
PROJECT
 5 LANDS COASTAL WALKWAY - STAGE 5
 CAPTAIN COOK LOOKOUT TO WINNEY BAY

DRAWING TITLE
 COVER SHEET
 ANTHONY JOHN GRIFFITHS
 MIE AUST OPENG 2342830

SCALE		DATE		JOB NUMBER		SHEET	
BRAIN	1:100	DATE	2014/04/02	JOB NUMBER	2014/04/02	REV	A3.01
DESIGNED	JSGW	CHECKED					D
DATE							

**CONCEPT PLANS
NOT FOR CONSTRUCTION**



CONCRETE (C)

- C01. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3880, AS 1379 & AS 3810 CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- C02. ALL CEMENT TO BE TYPE SL. SHRINKAGE LIMITED CEMENT IN ACCORDANCE WITH ASSR72, EXCEPT THAT THE MAXIMUM SHRINKAGE OF CEMENT IN THE MORTAR TEST SAMPLE IN MICROSTRAIN.
- | ELEMENT | STRENGTH GRADE | SUPLY | MAXIMUM AGGREG. | MINIMUM CEMENT |
|----------|----------------|-------|-----------------|----------------|
| (Mpa) | (Mpa) | (mm) | (mm) | (kg/cum) |
| SLABS | M40 | 80 | 20 | 250 |
| FOOTINGS | M40 | 80 | 20 | 250 |
- PROJECT ASSESSMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379 CLAUSE B7.
- C03. ALL CONCRETE IN SLABS AND BEAMS TO BE PROPORTIONED TO MEET THE SPECIFIED STRENGTHS TO BE SUBMITTED & APPROVAL OBTAINED PRIOR TO POURING ANY CONCRETE.
- C. SHRINKAGE TESTS SHALL BE CARRIED OUT BY AN APPROVED DATA REGISTERED LABORATORY IN ACCORDANCE WITH AS 1012 PART 13. TESTS SHALL BE CONDUCTED ON THE FIRST BATCH OF CONCRETE USED IN SUSPENDED SLABS AND SUBSEQUENTLY AT THE RATE OF ONE TEST EVERY ADDITIONAL 100m³ OF CONCRETE SUPPLIED. THREE SPECIMENS SHALL BE TAKEN FOR EACH TEST AND THE SHRINKAGE SHALL BE THE AVERAGE OF THE THREE RESULTS OF TESTING SHALL BE BORNE BY THE CONTRACTOR AS SHALL ANY ADDITIONAL TESTS REQUIRED IF THE CONCRETE FAILS TO MEET THE SPECIFIED SHRINKAGE LIMITS.
- C04. NO ADMIXTURES OTHER THAN LOW RANGE WRA SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITINGS.
- C05. CLEAR CONCRETE COVER TO ALL REINFORCEMENT SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE. COVER MAY BE NEEDED TO BE INCREASED FOR FIRE RATING.
- | EXPOSURE CLASSIFICATION | MINIMUM CAST IN PLACE | CAST IN PLACE | CAST IN PLACE |
|-------------------------|-----------------------|---------------|---------------|
| CLASS | AS | GROUND | NOT EXPOSED |
| A1 (INTERNAL) | 20 | 40mm | 20mm |
| A2 (EXTERNAL) | 20 | 60mm | 40mm |
| B1 (EXTERNAL) | 32 | 60mm | 40mm |
| B2 (EXTERNAL) | 40 | 60mm | 40mm |
| C2 | 50 | 60mm | - |
- NOTE: WHERE CONCRETE IS POURED ON A VAPOURPROOF MEMBRANE 0.2mm MINIMUM THICKNESS, THE COVER TO CONCRETE CAST AGAINST GROUND MAY BE REDUCED BY 10mm.

REINFORCEMENT (R)

- R01. REINFORCEMENT SYMBOLS:
- N DENOTES GRADE 500 N BARS TO AS 4671
- R DENOTES GRADE 250 R HOT ROLLED PLAIN BARS TO AS 4671
- L DENOTES GRADE 500 L HARD-DRAWN WIRE
- W REINFORCING FABRIC TO AS 4671
- W DENOTES GRADE 450 W HARD-DRAWN PLAIN WIRE TO AS 4671
- TM DENOTES GRADE 500 TRENCH MESH TO AS 4671
- NUMBER OF BARS IN GROUP
- BAR GRADE AND TYPE
- 17N20-250
- NOMINAL BAR SIZE N mm
- SPACING IN mm
- THE FIGURES FOLLOWING THE FABRIC SYMBOLS R, SL, L, TM IS THE REFERENCE NUMBER TO AS 4671.
- R02. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- R03. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITINGS BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS 3880 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR, AS PER THE TABLE BELOW:
- | BAR SIZE | SPLICE LENGTHS (mm) |
|--|---------------------|
| LESS THAN 300 CONCRETE BELOW BAR OR VERTICAL BAR | 25MPa |
| 300 | 300 |
| N12 | 400 |
| N16 | 500 |
| N20 | 750 |
| N24 | 1000 |
| N28 | 1350 |
| N32 | 1650 |
| N36 | 2000 |
- MORE THAN 300 CONCRETE BELOW BAR
- | BAR SIZE | 25MPa | 32MPa |
|----------|-------|-------|
| N12 | 400 | 400 |
| N16 | 650 | 600 |
| N20 | 900 | 850 |
| N24 | 1150 | 1050 |
| N28 | 1450 | 1350 |
| N32 | 1800 | 1650 |
| N36 | 2200 | 2000 |
- BOTTOM BAR LAPPED @ SUPPORTS AND TOP BAR LAPPED AT MID SPAN.
- R04. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.
- R05. FABRIC SHALL BE LAPPED 2 TRANSVERSE WIRES PL US 25mm. ROUNDED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF THE WIRE.
- R06. WHERE TRANSVERSE THE BARS ARE NOT SHOWN PROVIDE N12-400 SPLICED WHERE NECESSARY AND LAP WITH MAIN BARS 400mm UNLESS NOTED.
- R07. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OR 1 BAR DIAMETER.
- R08. ALL REINFORCEMENT SHALL BE FINAL Y SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS. PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH HWAYS AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND, AS FORMWORK PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC TIPPED STEEL CHAIRS SHALL NOT BE USED ON EXPOSED FACES IN EXPOSURE CLASSIFICATION BY B2 AND C ONLY PLASTIC OR PLASTIC OR CONCRETE CHAIRS.
- R09. AT A SIMPLE OR END SUPPORT OF A SLAB ON A MASONRY WALL, ALL BOTTOM SLAB REINFORCEMENT SHALL EXTEND OVER THE MASONRY WALL BY A LENGTH 75mm FOR N12 BARS & 90mm FOR N16 BARS. IF THIS CANNOT BE ACHIEVED DUE TO COVER REQUIREMENT S THEN THE BARS SHALL BE CAGED. OVER HANG THE LAST WELDED CROSS ROD SHALL BE LOCATED OVER THE WALL AND 50mm MINIMUM BEYOND THE FACE OF THE WALL.
- R10. SITE BENDING OF REINFORCEMENT SHALL BE AVOIDED IF POSSIBLE. WHERE SITE BENDING IS UNAVOIDABLE IT SHALL BE CARRIED OUT COLD, WITHOUT THE APPLICATION OF HEAT, AND IN ACCORDANCE WITH THE PRACTICE NOTE RPN1 OF THE STEEL REINFORCEMENT INSTITUTE OF AUSTRALIA.
- R11. THE STRUCTURAL ENGINEER SHALL BE GIVEN 24 HOURS NOTICE FOR REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL HAS BEEN OBTAINED FROM THE STRUCTURAL ENGINEER.

STRUCTURAL STEEL (SS)

- S01. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 AND AS 1564 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- S02. UNLESS NOTED OTHERWISE ALL MATERIAL SHALL BE:
- GRADE 250 HOT ROLLED PLATES COMPLYING WITH AS 3678.
 - GRADE 250 HOT ROLLED FLATS.
 - GRADE 300PLUS UB, UC, PFC, ANGLES, AND TEE.
 - GRADE 300 WB, WC COMPLYING WITH AS 3679.2.
 - GRADE C350 RHS, CHS COMPLYING WITH AS 1163.
- S03. THREE (3) COPIES OF WORKSHOP FABRICATION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AT LEAST 7 DAYS PRIOR TO COMMENCEMENT OF FABRICATION AND PERMISSION TO USE OBTAINED PRIOR TO FABRICATION. PERMISSION TO USE OBTAINED FROM THE ENGINEER SHALL BE IN WRITING. THE FULL DIMENSIONS, FIT AND COMPLIANCE WITH ARCHITECTURAL AND ENGINEERING DRAWINGS.
- S04. BOLTS:-
- 4.6S - COMMERCIAL BOLTS OF GRADE 4.8 TO AS 1111, SNUG TIGHTENED.
 - 8.8S - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252, SNUG TIGHTENED.
 - 8.8T8 - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 FULLY TENSIONED TO AS 4100 AS BEARING JOINT.
 - 8.8T7 - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 FULLY TENSIONED TO AS 4100 AS A FRICTION JOINT WITH FACING SURFACES LEFT UNCOATED.
- ALL BOLTS SHALL BE WAZENED 6.8S UNLESS NOTED. NO CONCRETE SHALL BE GALVANISED. TB AND TB BOLTS TO BE INSTALLED USING APPROVED LOAD INDICATING WASHERS, OR BY TURN OF NUT CONTROL OF TENSIONING.
- S05. WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1564.1. ALL WELD SHALL BE 6 MM CFW SP CATEGORY UNO. CFW SHALL BE SP CATEGORY UNO. INSPECTION SHALL BE CARRIED OUT TO AS 1564.1. ALL GPSP WELDS SHALL BE 100% VISUALLY SCANNED. BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS TO AS 1564.
- S06. ALL DETAILS, GAUGE LINES ETC. WHERE NOT SPECIFICALLY SHOWN ARE TO BE IN ACCORDANCE WITH ALSO DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL AND ALSO STANDARDIZED STRUCTURAL CONNECTIONS. PLATES TO BE 10mm THICK. EX-STANDARD SQUARE EDGE FLATS UNO.
- S07. STEELWORK TO BE CONCRETE ENCASED SHALL BE WRAPPED WITH F4 STEELWIRE FABRIC AND SHALL HAVE 50mm MINIMUM CONCRETE COVER TO THE STRUCTURAL STEEL.
- S08. PROVIDE SEAL PLATES TO ALL HOLLOW SECTIONS, PROVIDE VENT HOLES TO HOLLOW MEMBERS & DRAIN HOLES TO ALL MEMBERS TO BE HOT DIP GALVANISED.
- S09. IT IS THE BUILDERS RESPONSIBILITY TO ENSURE THAT STEELWORK IS SECURELY TEMPORARILY BRACED AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.
- S10. STRUCTURAL STEELWORK SHALL HAVE THE FOLLOWING SURFACE TREATMENT IN ACCORDANCE WITH THE SPECIFICATION.
- | ELEMENT | SURFACE CLEANING | PROTECTIVE COATING |
|----------|------------------|----------------------------------|
| EXTERNAL | MECHANICAL | HOT DIPPED GALV. + 2 COAT EPOXY. |
- S11. THE BUILDER SHALL PROVIDE ALL CLEARTS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND NUMBER TO STEEL WHETHER OR NOT DETAILED ON THE DRAWINGS.
- S12. THE FABRICATION AND ERECTION OF THE STRUCTURAL STEELWORK SHALL BE SUPERVISED BY A QUALIFIED PERSON EXPERIENCED IN SUCH SUPERVISION, IN ORDER TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN ARE MET, ALL BEAMS AND RAFTERS SHALL BE FABRICATED AND ERECTED WITH NATURAL CAMBER UP.
- S13. REFERENCE SHOULD BE MADE TO AS 2317 FOR APPROPRIATE COATING SYSTEMS FOR ALL EXTERNAL APPLICATIONS. COATING OF EXTERNAL LINTELS SHALL BE IN ACCORDANCE WITH B.C.A. AND AS 3700.

STRUCTURAL STAINLESS STEEL (SSS)

- SS1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 AND AS 1564 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- SS2. UNLESS NOTED OTHERWISE ALL STAINLESS STEEL SHALL BE COMPLYING WITH AS/NZS 4673 OF A GRADE SUITABLE FOR USE IN MARINE SPLASH ZONE CONDITIONS.
- SS3. THREE(3) COPIES OF WORKSHOP FABRICATION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AT LEAST 7 DAYS PRIOR TO COMMENCEMENT OF FABRICATION AND PERMISSION TO USE OBTAINED PRIOR TO FABRICATION. PERMISSION TO USE DOES NOT RELIEVE THE BUILDER OF THE FULL RESPONSIBILITY FOR DIMENSIONS, FIT AND COMPLIANCE WITH ARCHITECTURAL AND ENGINEERING DRAWINGS.
- SS4. BOLTS:-
- ALL BOLTS SHALL BE M16 GRADE 304S UNLESS NOTED OTHERWISE. ALL BOLTS, NUTS & WASHERS TO BE STAINLESS STEEL. (GRADE 304) TO ISO 3506. SNUG TIGHTENED WITH NYLON LOCK NUTS. STAINLESS STEEL TO BE SEPARATED FROM OTHER METALS WITH NEOPRENE WASHERS.
- SS5. WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1564.1. AND AS 1564.6 WELDING CONSUMABLES SHALL BE SUITABLE FOR STAINLESS STEEL OR ALUMINIUM UNO. ALL WELDS SHALL BE 3mm C.F.W. SP CATEGORY UNO. CFW SHALL BE SP CATEGORY UNO. INSPECTION SHALL BE CARRIED OUT TO AS 1564.1. AND AS 1564.6 ALL GPSP WELDS SHALL BE 100% VISUALLY SCANNED. BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS TO AS 1564.
- SS6. ALL DETAILS, GAUGE LINES ETC. WHERE NOT SPECIFICALLY SHOWN ARE TO BE IN ACCORDANCE WITH ALSO DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL AND ALSO STANDARDIZED STRUCTURAL CONNECTIONS. PLATES TO BE 6mm THICK. EX-STANDARD SQUARE EDGE FLATS UNO.
- SS7. PROVIDE SEAL PLATES TO ALL HOLLOW SECTIONS.
- SS8. IT IS THE BUILDERS RESPONSIBILITY TO ENSURE THAT STEELWORK IS SECURELY TEMPORARILY BRACED AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.
- SS9. THE BUILDER SHALL PROVIDE ALL CLEARTS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND TIMBER TO STEEL. WHETHER OR NOT DETAILED ON THE DRAWINGS.
- SS10. THE FABRICATION AND ERECTION OF THE STRUCTURAL STEELWORK SHALL BE UNDERTAKEN BY A QUALIFIED PERSON EXPERIENCED IN SUCH SUPERVISION, IN ORDER TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN ARE MET, ALL BEAMS AND RAFTERS SHALL BE FABRICATED AND ERECTED WITH NATURAL CAMBER UP.

FORMWORK (FW)

- FW1. THE DESIGN, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK AND FASTENWORK IS THE RESPONSIBILITY OF THE BUILDER.
- FW2. DESIGN AND CONSTRUCTION AND STRIPPING TIMES SHALL COMPLY WITH AS 3810 AND AS 3800 UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- FW3. DURING CONSTRUCTION, SUPPORT PROPPING SHALL BE PROVIDED WHERE LOADS FROM STACKED MATERIALS, FORMWORK AND OTHER SUPPORTED SLABS IMPOSE LOADS IN A SLAB OR BEAM WHICH EXCEED THE DESIGN LOAD FOR STRENGTH OR SERVICEABILITY AS PER TABLE 1. THE MAXIMUM PERMISSIBLE DEFLECTION AS PER TABLE 2. THESE LOADS SHALL NOT EXCEED THE DESIGN SUPERIMPOSED LOADS SET OUT IN THE GENERAL NOTES.
- FW4. IN MULTI STOREY CONSTRUCTION PROPPING SHALL BE PROVIDED AT LEAST 3 LEVELS BELOW THE FLOOR BEING CAST. PROP REMOVAL IS TO BE PROGRAMMED TO AVOID DISTRESS TO PREVIOUSLY CAST FLOORS. RE-SHOERING OR BACK-PROPPING IS SUBJECT TO THE APPROVAL OF THE PROJECT DESIGN ENGINEER.
- FW5. THE FORMWORK SHALL BE DESIGNED TO RELY ON NO WITHSTAND OR SUPPORT FROM THE PERMANENT STRUCTURE UNLESS PRIOR APPROVAL FROM THE PROJECT DESIGN ENGINEER.
- FW6. FORMWORK SHALL BE DESIGNED TO ACCOMMODATE MOVEMENTS AND LOAD RE DISTRIBUTION DUE TO POST-TENSIONING.
- FW6. WHERE NECESSARY SPECIAL REQUIREMENTS FOR SEQUENCE OF CONCRETE PLACEMENT AND STRIPPING ARE SET OUT ON DRAWINGS.
- FW7. DESIGN INFORMATION CONCERNING THE FOUNDATION FORMWORK SHALL BE DETERMINED FROM THE CONDITIONS EXISTING ON SITE AT THE TIME OF CONSTRUCTION, REFER ALSO TO THE GEOTECHNICAL REPORT WHERE AVAILABLE.
- FW8. UNLESS NOTED OTHERWISE PROVIDE UPWARD CAMBER TO FORMWORK OF CANTILEVERS OF L120. WHERE IT IS THE SHORTEST PROJECTION BEYOND COLUMN OR WALL FACE. AND TO FORMWORK OF SLABS WHERE NOTED ON PLAN. MAINTAIN THE SLAB AND BEAM DEPTHS SHOWN.

CHEMICALLY ANCHORED REINFORCEMENT

- CA1. WHERE SHOWN ON THE DRAWINGS REINFORCEMENT BARS SHALL BE CHEMICALLY ANCHORED INTO EXISTING CONCRETE AS DESCRIBED BELOW.
- CA2. PERCUSSION DRILL (CORING NOT PERMITTED) A HOLE TO THE CORRECT DIAMETER AND DEPTH FOR THE PARTICULAR SIZE REINFORCING BARS AS TABULATED BELOW, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- | BAR SIZE (Y OR N) | HOLE DIA (mm) | HOLE DEPTH (mm) |
|-------------------|---------------|-----------------|
| 12 | 18 | 120 |
| 16 | 22 | 150 |
| 20 | 28 | 250 |
| 24 | 32 | 280 |
- CA3. THOROUGHLY CLEAN THE HOLE USING A ROUND WIRE BRUSH AND BLOW OUT ALL DUST.
- CA4. ENSURE HOLE IS CLEAN AND DRY AND INSERT SUFFICIENT HLTY 150 RESIN INTO THE BASE OF THE HOLE TO ENSURE THAT WHEN THE BAR IS INSTALLED RESIN APPEARS AT THE FACE OF THE HOLE.
- CA5. IMMEDIATELY INSERT THE REINFORCING BAR INTO THE HOLE BY ROTATING SLOWLY TO FULLY COAT THE BAR WITH RESIN AND PUSH FULLY INTO THE HOLE.
- CA6. ENSURE BARS IS NOT DISTURBED WHILE RESIN IS CURING. (APPROX. 2 HOURS).
- CA7. DRILLING CONTRACTOR IS TO OBTAIN WRITTEN AUTHORIZATION FROM ADJOINING PROPERTY OWNERS BEFORE CARRYING OUT PLACEMENT OF PILING ANCHORS.

DESIGN SPECIFICATION:

- REINFORCEMENT:
- BAR - N30 GRADE
- BAR - R20 GRADE
- MESH - S1500 GRADE - LOW DUCTILITY 3
- 'C' COVER:
- 'B' COVER:
- TOP - 45mm
- SIDE - 45mm
- BTM - 65mm
- BTM - 65mm
- DAMP PROOF MEMBRANE:
- 0.2mm POLYETHYLENE FILM CONTINUOUSLY BRANDED 'AS2870 CONCRETE UNDERLAY, 0.2mm - HIGH IMPACT RESISTANCE'
- SITE CLASSIFICATION: AS 3800
- S - ADD SURFACIE / OCEAN FRONT
- REFER GEO TECHNICAL REPORT
- B1 DOWELAS PARTNERS REF: 04/01/00 DATED APRIL 2015
- EXPOSURE CLASSIFICATION: AS 3800
- B2 - COASTAL FC - N40MPa (B2) PATHWAYS
- C - TIDAL/SPLASH ZONE FC = S50MPa (C2)
- LOADING: AS 1170.1
- SHARED PATHWAYS/ STAIRS: 3kPa
- TRAFFICABLE PATHWAY: 8kPa

DESIGN REFERENCE STANDARDS:

- AS 3800 - CONCRETE STRUCTURES
- AS 4100 - STEEL STRUCTURES
- AS 1170 - STRUCTURAL DESIGN ACTIONS
- AS 1170 - CONCRETE TESTING
- AS 1289 - SOIL TESTING
- AS 1478 - CONCRETE MANUFACTURE
- AS 1478 - CONCRETE ADMIXTURES
- AS/NZS 4671 - HOT DIP GALVANIZING (ZINC) COATINGS
- AS/NZS 4689 - STRUCTURAL STEEL WELDING
- AS 1564 - STAINLESS STEEL STRUCTURES
- AS2312 - GUIDE TO THE PROTECTION OF IRON & STEEL AGAINST CORROSION
- AS3910 - FORMWORK FOR CONCRETE
- AS2166 - WALKING TRACKS
- AS1428 - DESIGN FOR ACCESS AND MOBILITY
- AS2980 - OFF STREET CAR PARKING

CONCEPT PLANS NOT FOR CONSTRUCTION

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FOR

RGH CONSULTING GROUP
Multiphasic Engineering

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Phone: 02 4922 2416

FOR

GOSFORD CITY COUNCIL
CENTRAL COAST - NEW SOUTH WALES

5 LANDS WALK
CENTRAL COAST - NEW SOUTH WALES

ADDRESS

WINNEY BAY RESERVE
COPACABANA N.S.W.

PROJECT

5 LANDS COASTAL WALKWAY - STAGE 5
CAPTAIN COOK LOOKOUT TO WINNEY BAY

DRAWING TITLE

STRUCTURAL NOTES

ANTHONY JOHN GRIFFITHS
MIE AUST OPENING 2342930

SCALE

1:100

DATE

20/10/2012

JOB NUMBER

20140402

DATE

20/10/2012

SCALE

1:100

DATE

20/10/2012

JOB NUMBER

20140402

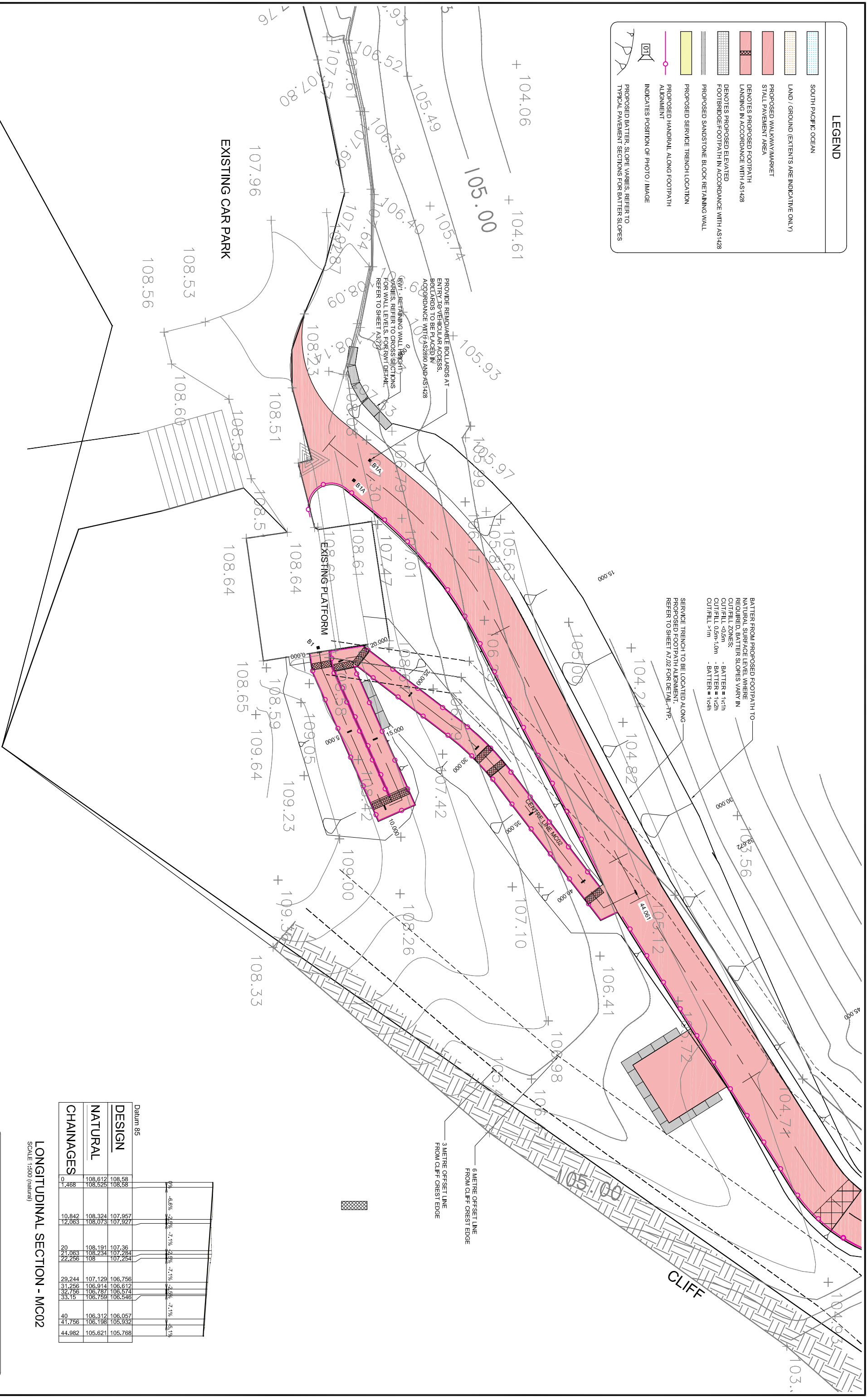
DATE

20/10/2012

COMPASS

N
S
E
W

LEGEND	
	SOUTH PACIFIC OCEAN
	LAND / GROUND (EXTENTS ARE INDICATIVE ONLY)
	PROPOSED WALKWAY/MARKET STALL PAVEMENT AREA
	PROPOSED PROPOSED FOOTPATH LANDING IN ACCORDANCE WITH AS1428
	PROPOSED PROPOSED ELEVATED FOOTBRIDGE/FOOTPATH IN ACCORDANCE WITH AS1428
	PROPOSED SANDSTONE BLOCK RETAINING WALL
	PROPOSED SERVICE TRENCH LOCATION
	PROPOSED HANDRAIL ALONG FOOTPATH ALIGNMENT
	INDICATES POSITION OF PHOTO / IMAGE
	PROPOSED BATTER SLOPE VARIES REFER TO TYPICAL PAVEMENT SECTIONS FOR BATTER SLOPES



DETAIL WALKWAY PLAN - MC02

SCALE 1:100

LONGITUDINAL SECTION - MC02			
SCALE 1:500 (natural)			
Datum 85			
DESIGN	108.612	107.957	-0.68%
NATURAL	108.525	107.927	-0.68%
CHAINAGES	10.842	107.957	-0.68%
	12.063	107.927	-0.68%
	20	107.36	-0.68%
	21.063	107.284	-0.68%
	22.256	107.254	-0.68%
	29.244	106.756	-1.71%
	31.256	106.612	-1.51%
	32.756	106.574	-1.51%
	33.15	106.546	-1.51%
	40	106.057	-4.51%
	41.756	105.932	-1.13%
	44.982	105.768	-1.58%

CONCEPT PLANS
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 Village Centre, Newcastle NSW

 Ph: 02 492 2416

GOSFORD CITY COUNCIL

5 LANDS WALK

 CENTRAL COAST - NEW SOUTH WALES

ADDRESS: WINNEY BAY RESERVE
 COPACABANA N.S.W.

 PROJECT: 5 LANDS COASTAL WALKWAY - STAGE 5
 CAPTAIN COOK LOOKOUT TO WINNEY BAY

DRAWING TITLE: DETAIL PAVEMENT PLAN
 SHEET 1

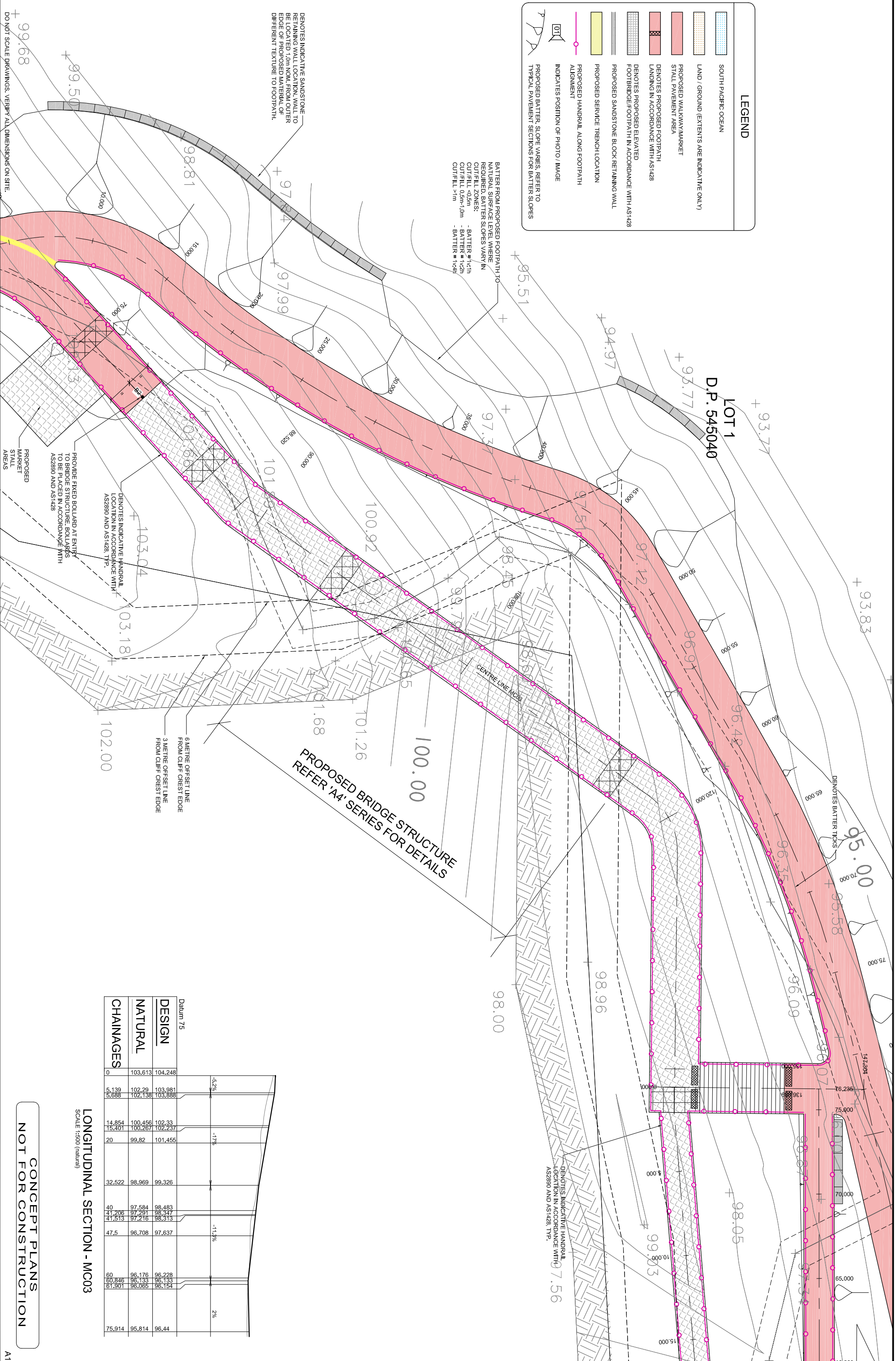
ANTHONY JOHN GRIFFITHS
 MIE AUST OPENING 2342830

SCALE	DATE	JOB NUMBER
1:100	JANUARY 2015	20140492

SHEET: A3.03
 REV: D

LEGEND

- SOUTH PACIFIC OCEAN
- LAND / GROUND (EXTENTS ARE INDICATIVE ONLY)
- PROPOSED WALKWAY/MARKET
- STALL PAVEMENT AREA
- DENOTES PROPOSED FOOTPATH
- DENOTES PROPOSED ELEVATED FOOTBRIDGE/FOOTPATH IN ACCORDANCE WITH AS1428
- PROPOSED SANDSTONE BLOCK RETAINING WALL
- PROPOSED SERVICE TRENCH LOCATION
- PROPOSED HANDRAIL ALONG FOOTPATH
- ALIGNMENT
- INDICATES POSITION OF PHOTO / IMAGE
- PROPOSED BATTER SLOPE VARIES, REFER TO TYPICAL PAVEMENT SECTIONS FOR BATTER SLOPES



DENOTES INDICATIVE SANDSTONE RETAINING WALL LOCATION. WALL TO BE LOCATED 1.0m NOM. FROM OUTER EDGE OF PROPOSED MATERIAL OF DIFFERENT TEXTURE TO FOOTPATH.

BATTER FROM PROPOSED FOOTPATH TO NATURAL SURFACE LEVEL WHERE REQUIRED. BATTER SLOPES VARY IN CUT/FILL ZONES:
 - BATTER #1=1:1H CUT/FILL <0.5m
 - BATTER #2=1:2H CUT/FILL 0.5m-1.0m
 - BATTER #3=1:4H CUT/FILL >1m

DENOTES INDICATIVE HANDRAIL LOCATION IN ACCORDANCE WITH AS2880 AND AS1428. TYP.

6 METRE OFFSET LINE FROM CLIFF CREST EDGE
 3 METRE OFFSET LINE FROM CLIFF CREST EDGE

PROVIDE FIXED BOLLARD AT ENTRY TO BRIDGE STRUCTURE. BOLLARDS TO BE PLACED IN ACCORDANCE WITH AS2880 AND AS1428

PROPOSED MARKET STALL AREAS

LONGITUDINAL SECTION - MC03
SCALE 1:500 (natural)

CHAINAGES	Datum 75	
	DESIGN	NATURAL
0	103.613	104.248
5.139	102.29	103.981
5.688	102.138	103.888
14.854	100.456	102.33
15.401	100.267	102.237
20	99.82	101.455
32.522	98.969	99.326
40	97.584	98.483
41.206	97.216	98.313
41.513	97.216	98.313
47.5	96.708	97.637
60	96.176	96.228
60.846	96.133	96.133
61.901	96.065	96.154
75.914	95.814	96.44

**CONCEPT PLANS
NOT FOR CONSTRUCTION**

REVISION	DESCRIPTION	DATE	REVISION	DESCRIPTION	DATE
A	PRELIMINARY ISSUE TO QUANTITY SURVEYOR	05.08.15			
B	RE-ISSUE TO QUANTITY SURVEYOR	24.06.15			
C	90% ISSUE	29.06.15			
D	COUNCIL APPROVAL	19.08.15			

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 Multidisciplinary Engineering
 Central Coast Office: Suite 35, The Avenue, Murrumbidgee NSW 2220
 Phone: 4340 1911 Fax: 4340 1944
 Newcastle Office: Shop 113, The Junction, Village Centre, Newcastle NSW
 Phone: 492 2415

GOSFORD CITY COUNCIL
 CENTRAL COAST - NEW SOUTH WALES

5 LANDS WALK
 CENTRAL COAST - NEW SOUTH WALES

**WINNEY BAY RESERVE
COPACABANA N.S.W.**

**PROJECT
5 LANDS COASTAL WALKWAY - STAGE 5
CAPTAIN COOK LOOKOUT TO WINNEY BAY**

**DRAWING TITLE
DETAIL PAVEMENT PLAN
SHEET 2**

**ANTHONY JOHN GRIFFITHS
M/E AUST OPENING 2342830**

SCALE 1:100
DATE JANUARY 2015
JOB NUMBER 20140402

**SHEET
A3.04
D**

DATE 2014/04/02

SCALE 1:500 (natural)

LONGITUDINAL SECTION - MC03

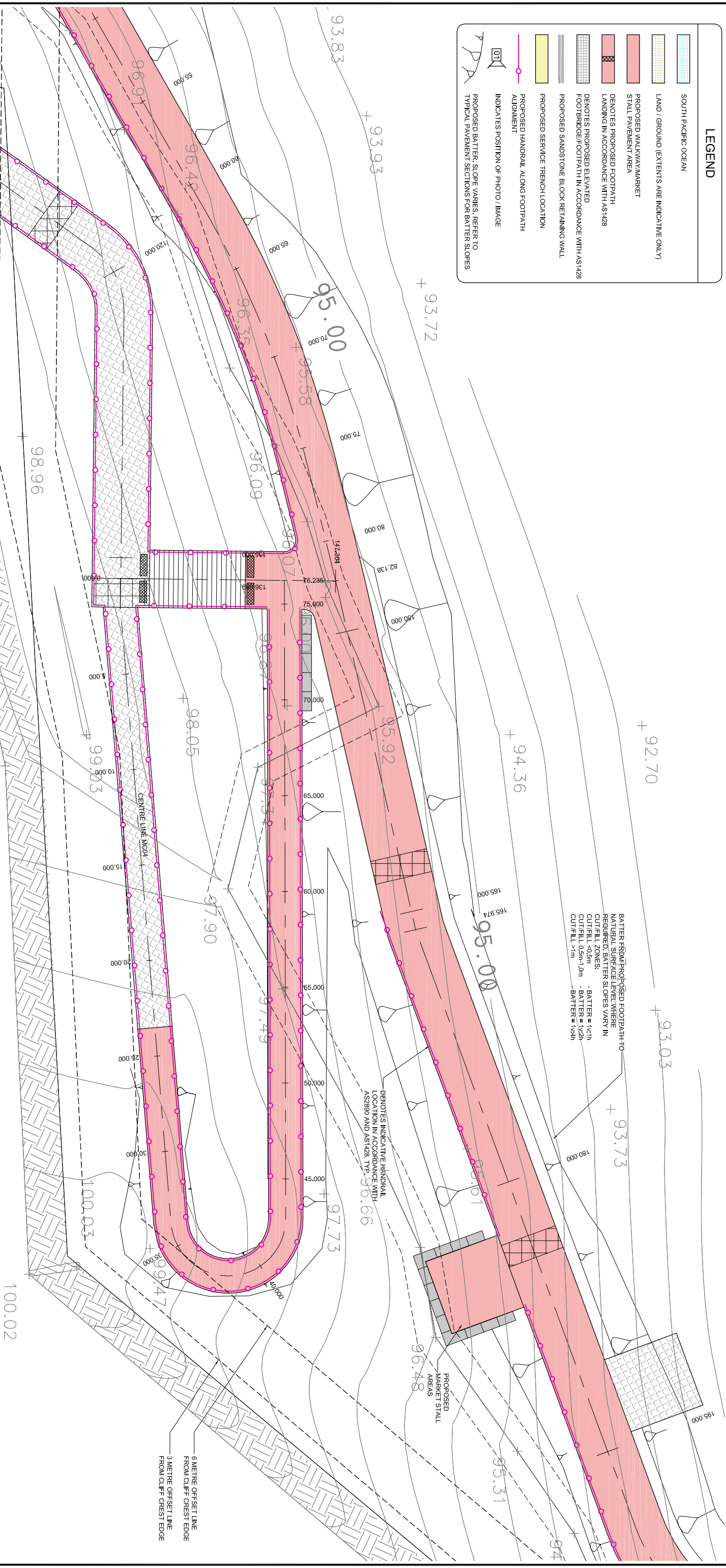
LEGEND

	SOUTH PACIFIC OCEAN
	LAND / GROUND EXTENTS ARE INDICATIVE ONLY
	PROPOSED WALKWAY/MARKET
	STALL PAVEMENT AREA
	DENOTES PROPOSED FOOTPATH
	LANDING IN ACCORDANCE WITH AS1428
	DENOTES PROPOSED ELEVATED FOOTBRIDGE/FOOTPATH IN ACCORDANCE WITH AS1428
	PROPOSED SANDSTONE BLOCK RETAINING WALL
	PROPOSED SERVICE TRENCH LOCATION
	PROPOSED HANDRAIL ALONG FOOTPATH ALIGNMENT
	INDICATES POSITION OF PHOTO / IMAGE
	PROPOSED BATTER. SLOPE VARIES. REFER TO TYPICAL PAVEMENT SECTIONS FOR BATTER SLOPES

BATTER FROM PROPOSED FOOTPATH TO NATURAL SURFACE LEVEL WHERE REQUIRED. BATTER SLOPES VARY IN CUT/FILL ZONES:
 - BATTER = 1:1H
 - BATTER = 1:2H
 - BATTER = 1:3H
 CUT/FILL = 1m
 CUT/FILL = 2m

DENOTES INDICATIVE HANDRAIL LOCATION IN ACCORDANCE WITH AS2880 AND AS1428. TYP.

6 METRE OFFSET LINE FROM CLIFF CREST EDGE
 3 METRE OFFSET LINE FROM CLIFF CREST EDGE



Datum 76

DESIGN	100.392	99.466	98.777	98.465	97.464	96.726
NATURAL	98.327	98.43	98.337	98.235	98.117	96.594
CHAINAGES	0	1.49	20	33.754	42.939	60
	74.734	76.235				

0% -5% -2.5%

LONGITUDINAL SECTION - MC04
SCALE 1:500 (natural)

CONCEPT PLANS
NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE
A	PRELIMINARY ISSUE TO QUANTITY SURVEYOR	05.08.15
B	RE-ISSUE TO QUANTITY SURVEYOR	24.08.15
C	90% ISSUE	29.08.15
D	COUNCIL APPROVAL	18.08.15

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 Central Coast Office: Suite 35, The Avenue, Pittwater NSW 2250
 M: 02 4340 1911 Fax: 02 4340 1944
 Newcastle Office: Shop 113, The Junction Village Centre, Merens Street, Newcastle NSW 2291
 M: 02 492 2416

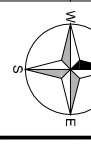
GOSFORD CITY COUNCIL
 CENTRAL SPORT

5 LANDS WALK
 CENTRAL COAST - NEW SOUTH WALES

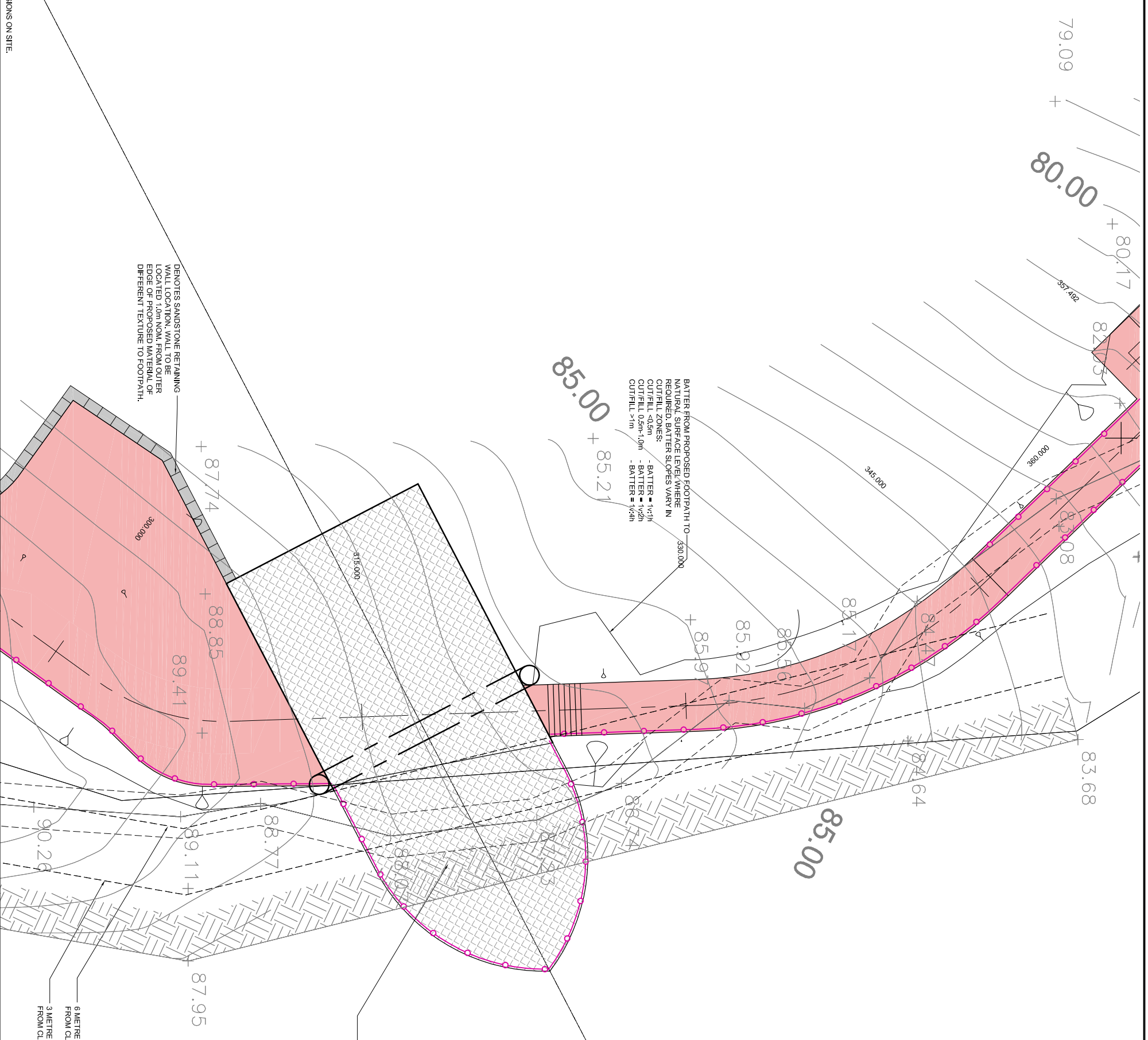
ADDRESS: WINNEY BAY RESERVE COPACABANA N.S.W.
 PROJECT: 5 LANDS COASTAL WALKWAY - STAGE 5 CAPTAIN COOK LOOKOUT TO WINNEY BAY

DRAWING TITLE: **DETAIL PAVEMENT PLAN SHEET 3**

ANTHONY JOHN GRIFFITHS
 MIE AUST OPENING 2342830
 SCALE: 1:100
 DATE: JANUARY 2015
 SHEET: **A3.05**
 JOB NUMBER: 20140492
 SHEET: **D**



LEGEND	
	SOUTH PACIFIC OCEAN
	LAND / GROUND (EXTENTS ARE INDICATIVE ONLY)
	PROPOSED WALKWAY/MARKET STALL PAVEMENT AREA
	DENOTES PROPOSED FOOTPATH LANDING IN ACCORDANCE WITH AS1428
	DENOTES PROPOSED ELEVATED FOOTBRIDGE/FOOTPATH IN ACCORDANCE WITH AS1428
	PROPOSED SANDSTONE BLOCK RETAINING WALL
	PROPOSED SERVICE TRENCH LOCATION
	PROPOSED HANDRAIL ALONG FOOTPATH ALIGNMENT
	INDICATES POSITION OF PHOTO / IMAGE
	PROPOSED BATTER. SLOPE VARIES. REFER TO TYPICAL PAVEMENT SECTIONS FOR BATTER SLOPES



DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE.

REVISION	DESCRIPTION	DATE	REVISION	DESCRIPTION	DATE
A	PRELIMINARY ISSUE TO QUANTITY SURVEYOR	05.08.15			
B	RE-ISSUE TO QUANTITY SURVEYOR	24.08.15			
C	90% ISSUE	29.06.15			
D	COUNCIL APPROVAL	19.08.15			

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 Postal Address: PO Box 1180, Gosford NSW 2250
 Central Coast Office: Suite 35, The Avenue, 140 Princes Highway, Gosford NSW 2250
 Phone: 02 4340 1911 Fax: 02 4340 1944
 Newcastle Office: Shop 113, The Junction Village Centre, Newcastle Street, The Junction NSW 2291
 Phone: 02 492 2419

GOSFORD CITY COUNCIL
 CENTRAL SPORT

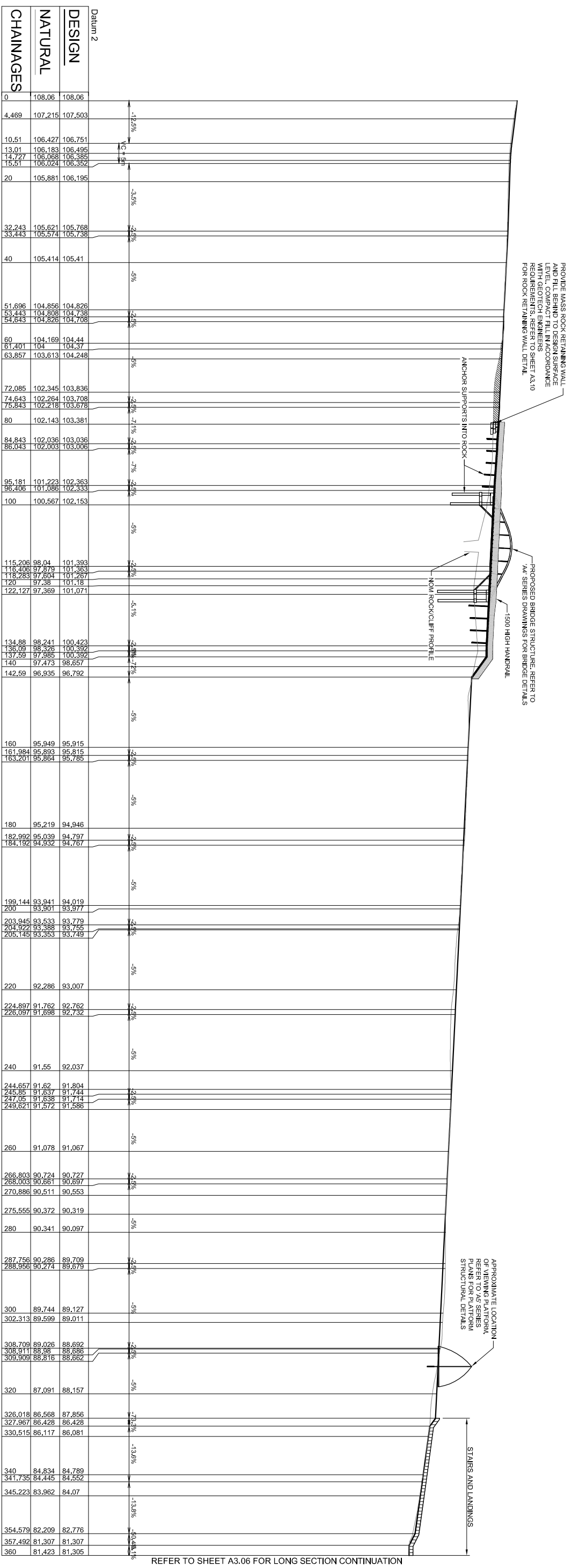
5 LANDS WALK
 CENTRAL COAST - NEW SOUTH WALES

ADDRESS: WINNEY BAY RESERVE
 COPACABANA N.S.W.
 PROJECT: 5 LANDS COASTAL WALKWAY - STAGE 5
 CAPTAIN COOK LOOKOUT TO WINNEY BAY

DRAWING TITLE: DETAIL PAVEMENT PLAN
 SHEET 4
 ANTHONY JOHN GRIFFITHS
 MIE AUST OPENING 2342830

SCALE: 1:100
 DRAWN: JSG/W
 DESIGNED: CF
 CHECKED: AJS
 DATE: JANUARY 2015
 JOB NUMBER: 20140492
 SHEET: A3.06
 REV: D

CONCEPT PLANS
 NOT FOR CONSTRUCTION



LONGITUDINAL SECTION - MC01 (CONTINUED)

SCALE 1:500 (natural)

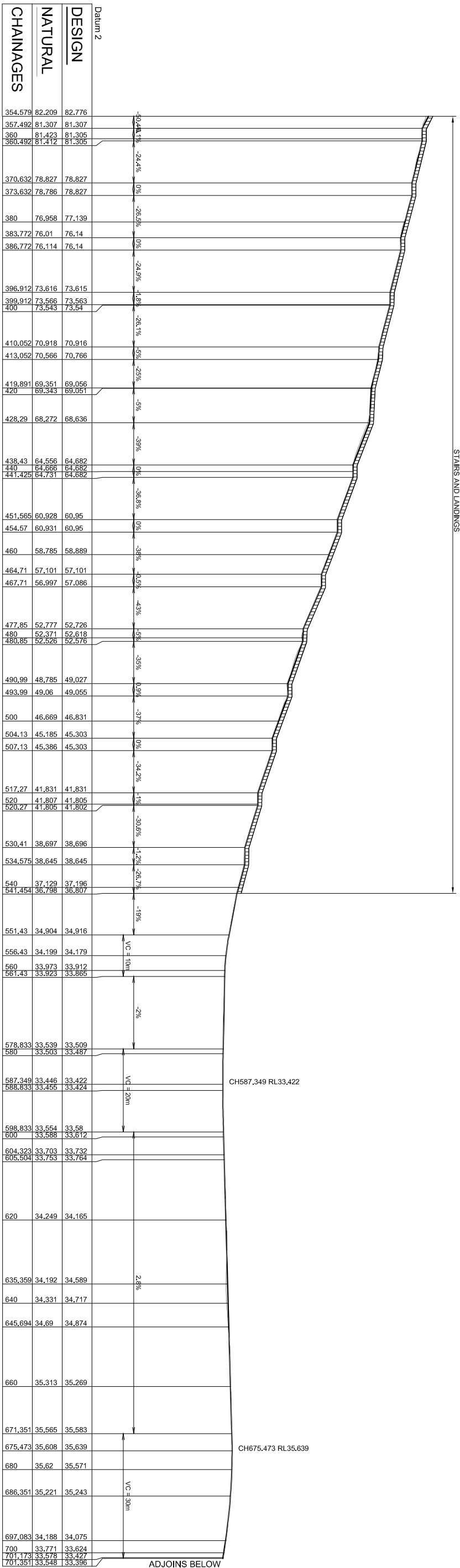
DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE.

CONCEPT PLANS
NOT FOR CONSTRUCTION

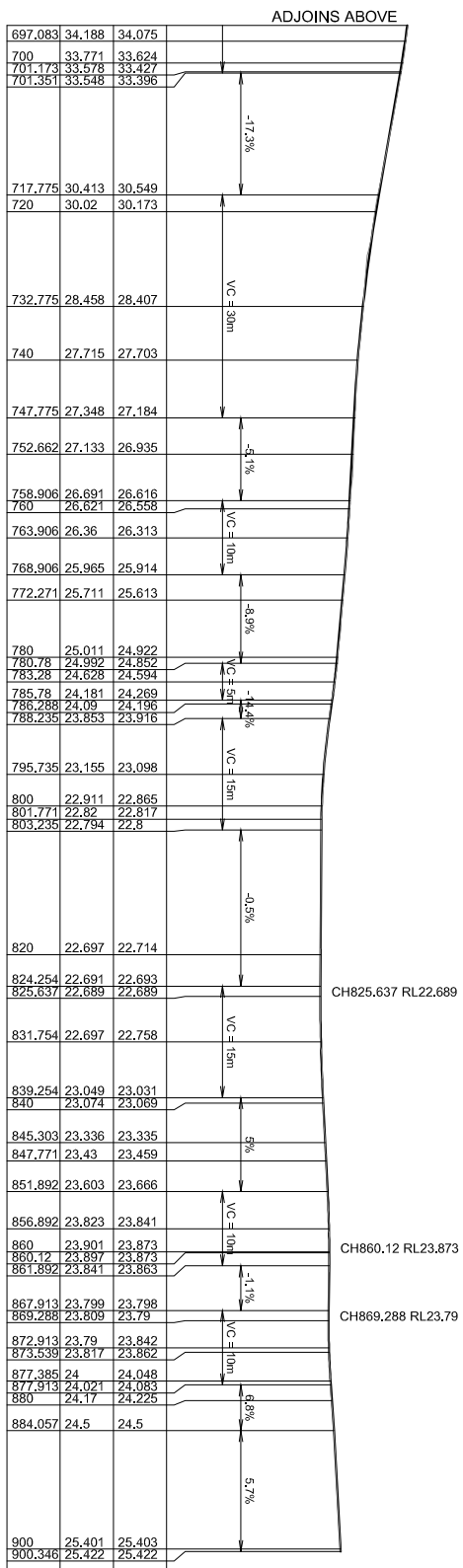
A1

REVISION	DESCRIPTION	DATE	REVISION	DESCRIPTION	DATE
A	PRELIMINARY ISSUE TO QUANTITY SURVEYOR	05.08.15			
B	RE-ISSUE TO QUANTITY SURVEYOR	24.08.15			
C	90% ISSUE COUNCIL APPROVAL	29.08.15			
D		19.08.15			

<p>RGH CONSULTING GROUP Multidisciplinary Engineering</p>	<p>Postal Address: PO Box 1180, Gosford NSW 2250 Central Coast Office: Suite 35, The Avenue, 140 Princes Highway, Gosford NSW 2250 Ph: 02 4340 1911 Fax: 02 4340 1544</p> <p>Marrickville Office: Shop 111, The Junction The Junction NSW 2201 Ph: 02 492 2416</p>	FOR	<p>GOSFORD CITY COUNCIL CENTRAL SPORT</p>	<p>5 LANDS WALK CENTRAL COAST - NEW SOUTH WALES</p>	ADDRESS	<p>WINNEY BAY RESERVE COPACABANA N.S.W.</p>	DRAWING TITLE	<p>DESIGN LONG SECTION MC01 - SHEET 1</p>	SCALE	1:500	SHEET	A3.07
PROJECT	5 LANDS COASTAL WALKWAY - STAGE 5 CAPTAIN COOK LOOKOUT TO WINNEY BAY	ANTHONY JOHN GRIFFITHS MIE AUST OPENING 2342830	DATE	JANUARY 2015	DATE	2014/04/02	JOB NUMBER	2014/04/02	DATE	2014/04/02	JOB NUMBER	2014/04/02



LONGITUDINAL SECTION - MC01 (CONTINUED)
SCALE 1:500 (natural)

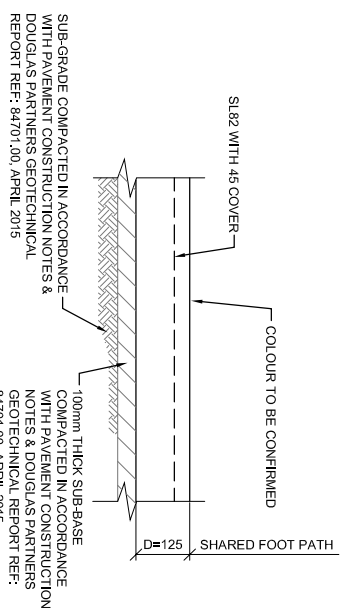


CONCEPT PLANS
NOT FOR CONSTRUCTION

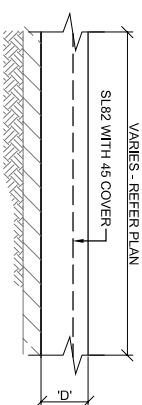
REVISION	DESCRIPTION	DATE	REVISION	DESCRIPTION	DATE
A	PRELIMINARY ISSUE TO QUANTITY SURVEYOR	05.08.15			
B	RE-ISSUE TO QUANTITY SURVEYOR	24.06.15			
C	90% ISSUE	29.06.15			
D	COUNCIL APPROVAL	19.08.15			

<p>RGH CONSULTING GROUP Multidisciplinary Engineering</p>	<p>Project Address: PO Box 1180, Gosford NSW 2250 Central Coast Office: Suite 35, The Avenue, 1st Floor, Gosford NSW 2250 Ph: 02 4340 1911 Fax: 02 4340 1544 Murrumbidgee Office: Shop 111, The Junction Valley Centre, Murrumbidgee NSW 2517 Ph: 02 492 2416</p>	<p>FOR CENTRAL COAST - NEW SOUTH WALES</p>	<p>ADDRESS WINNEY BAY RESERVE COPACABANA N.S.W.</p>	<p>DRAWING TITLE DESIGN LONG SECTION MC01 - SHEET 2</p>	<p>SCALE 1:500 DATE JANUARY 2015 JOB NUMBER 20140492</p>	<p>SHEET A3.08 D</p>
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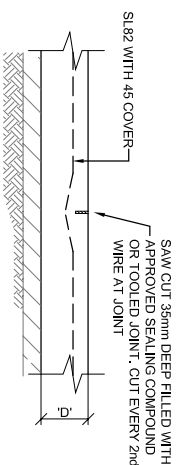
<p>DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE.</p>	<p>ANTHONY JOHN GRIFFITHS MIE AUST OPENING 2342830</p>	<p>PROJECT 5 LANDS COASTAL WALKWAY - STAGE 5 CAPTAIN COOK LOOKOUT TO WINNEY BAY</p>
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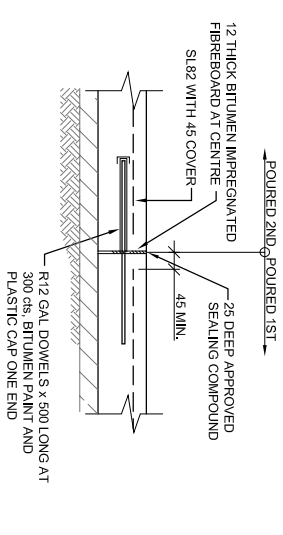
SHARED / FOOTPATH SLAB
SCALE 1:20



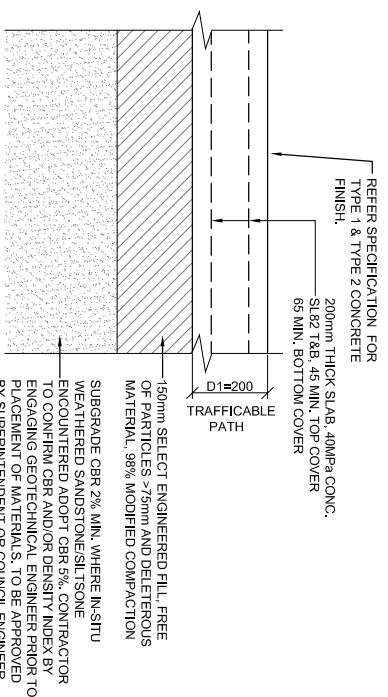
SHARED / FOOTPATH DETAIL
SCALE 1:20



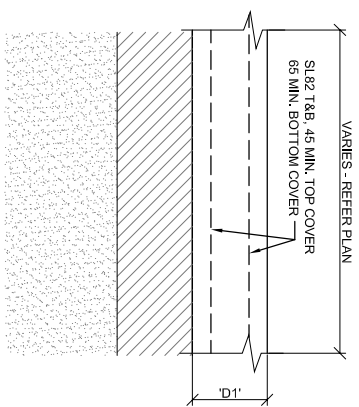
SHARED / FOOTPATH TOOL JOINT (TJ)
SCALE 1:20



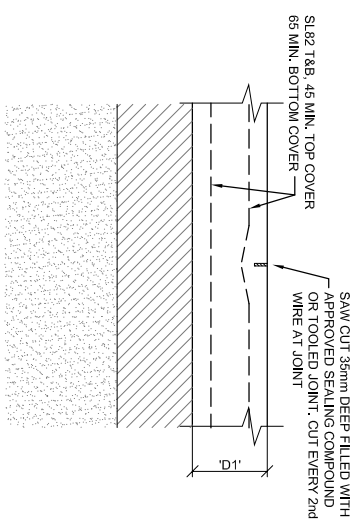
SHARED / FOOTPATH EXPANSION JOINT (EJ)
SCALE 1:20



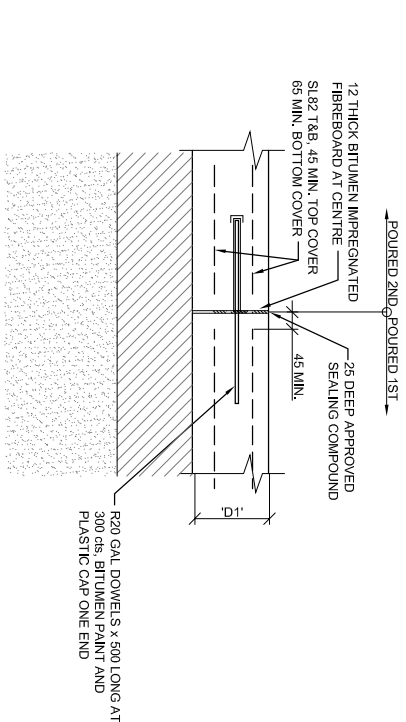
TRAFFICABLE PATH SLAB
SCALE 1:20



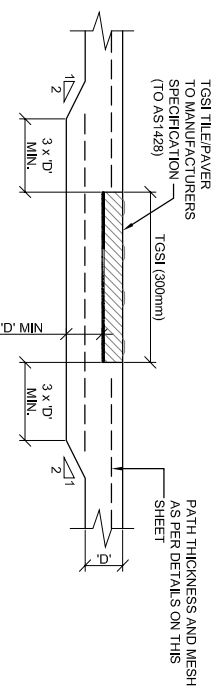
TRAFFICABLE PATH DETAIL
SCALE 1:20



TRAFFICABLE PATH TOOL JOINT (TJ)
SCALE 1:20

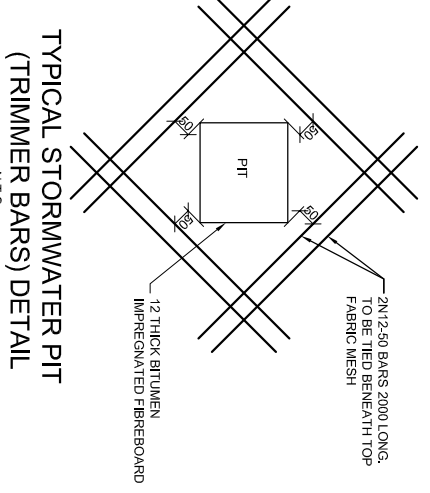


TRAFFICABLE PATH EXPANSION JOINT (EJ)
SCALE 1:20

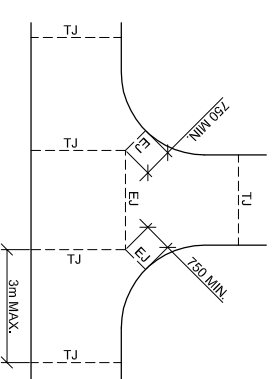


TACTILE GROUND SURFACE INDICATOR (TGS1) PATH INSERT
SCALE 1:20

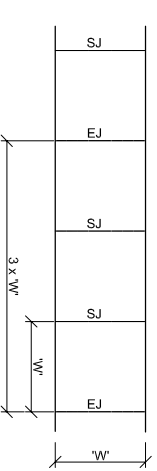
PROVIDE AT ALL RAMP AND STAIR LANDINGS IN ACCORDANCE WITH TYPICAL STAIR SECTION ON SHEET A3.12 AND RAMP SECTION ON SHEET A3.11



TYPICAL STORMWATER PIT (TRIMMER BARS) DETAIL
N.T.S.



TYPICAL PATH JOINTING DETAIL AT INTERSECTIONS
N.T.S.



TYPICAL SHARED PATH JOINTING DETAIL
N.T.S.

CONCEPT PLANS
NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE	REVISION	DESCRIPTION	DATE
A	PRELIMINARY ISSUE TO QUANTITY SURVEYOR	05.08.15			
B	RE-ISSUE TO QUANTITY SURVEYOR	24.08.15			
C	90% ISSUE	29.08.15			
D	COUNCIL APPROVAL	19.08.15			

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Multidisciplinary Engineering

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Marricourt Office: Shop 113, The Junction Village Centre, Merimbah Street, The Junction NSW 2291
Phone: 02 4392 2416

GOSFORD CITY COUNCIL
CENTRAL COAST SPORT

5 LANDS WALK
CENTRAL COAST - NEW SOUTH WALES

ADDRESS: WINNEY BAY RESERVE
COPACABANA N.S.W.

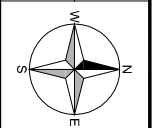
PROJECT: 5 LANDS COASTAL WALKWAY - STAGE 5
CAPTAIN COOK LOOKOUT TO WINNEY BAY

DRAWING TITLE: PAVEMENT DETAILS SHEET 1

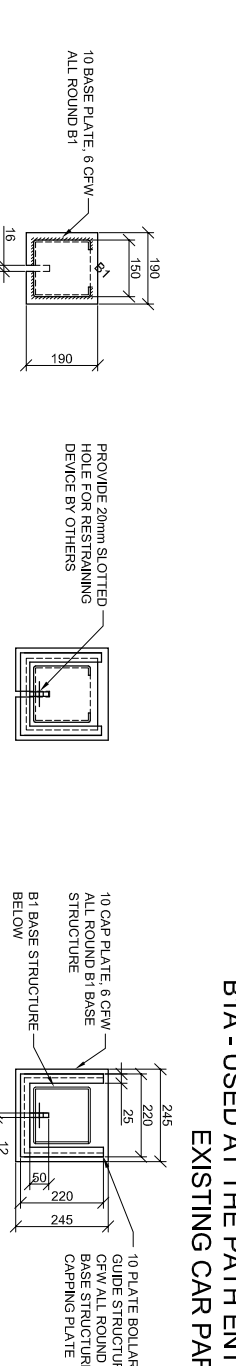
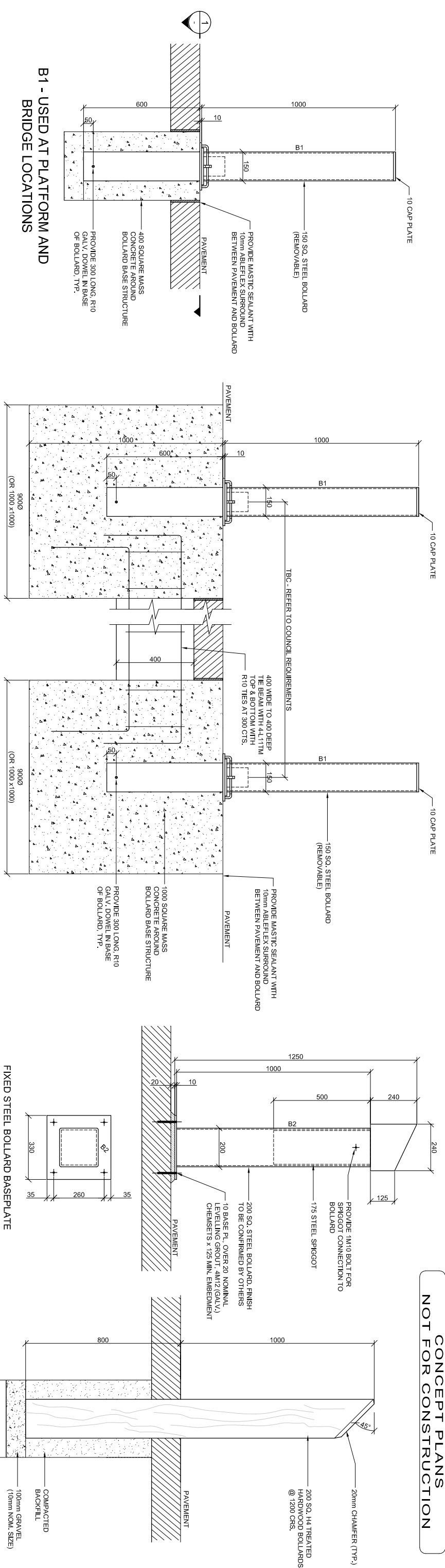
ANTHONY JOHN GRIFFITHS
MIE AUST OPENG 2342830

SCALE	1:10	N.T.S.	SHEET
DRAWN	JSGW		A3.09
DESIGNED	CF		
CHECKED	AJS		
DATE	JANUARY 2015		
JOB NUMBER	20140492		D

DATE: 2014/04/92



**CONCEPT PLANS
NOT FOR CONSTRUCTION**



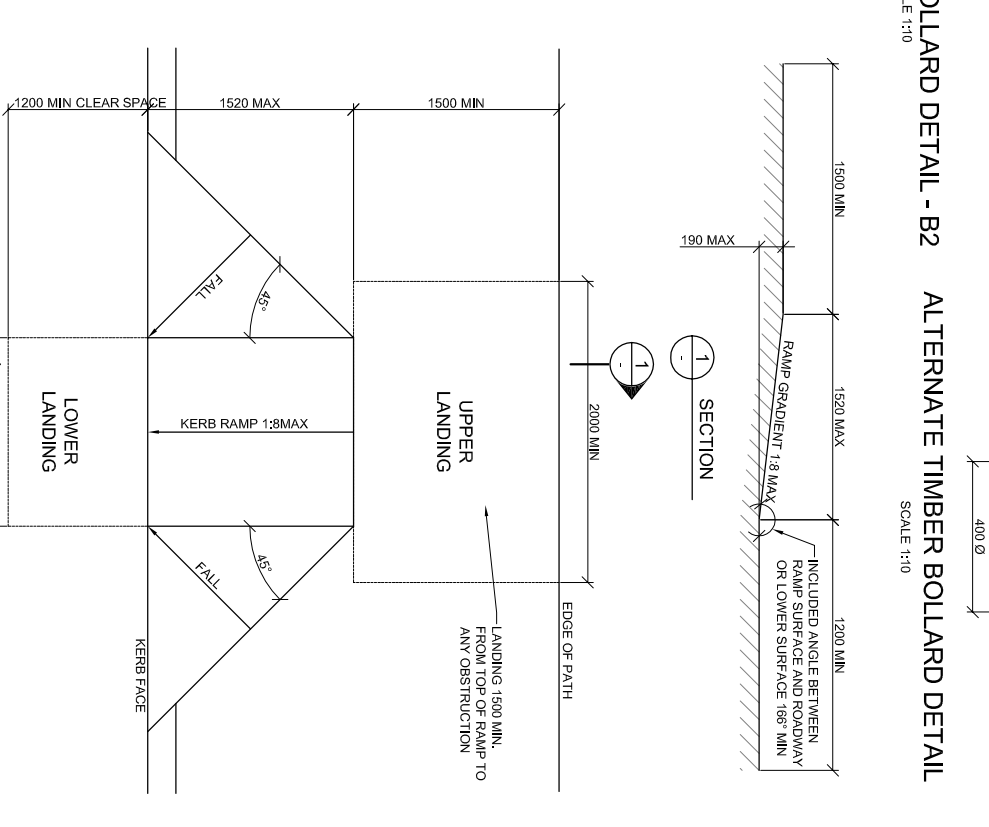
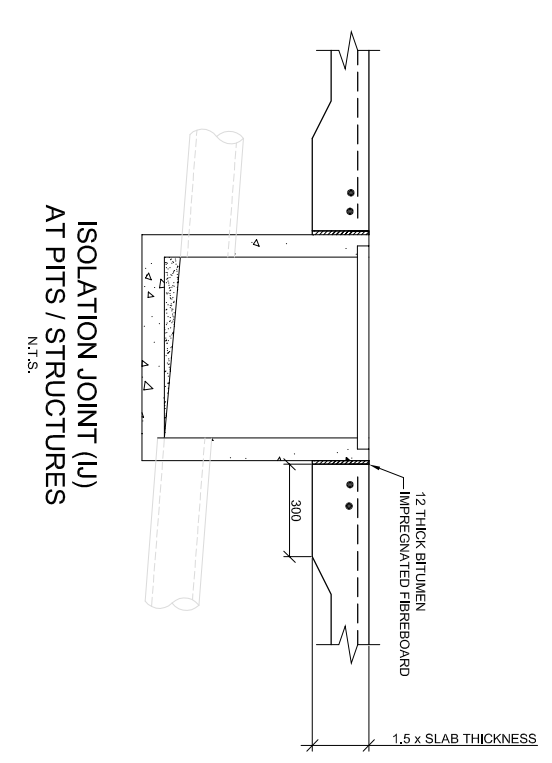
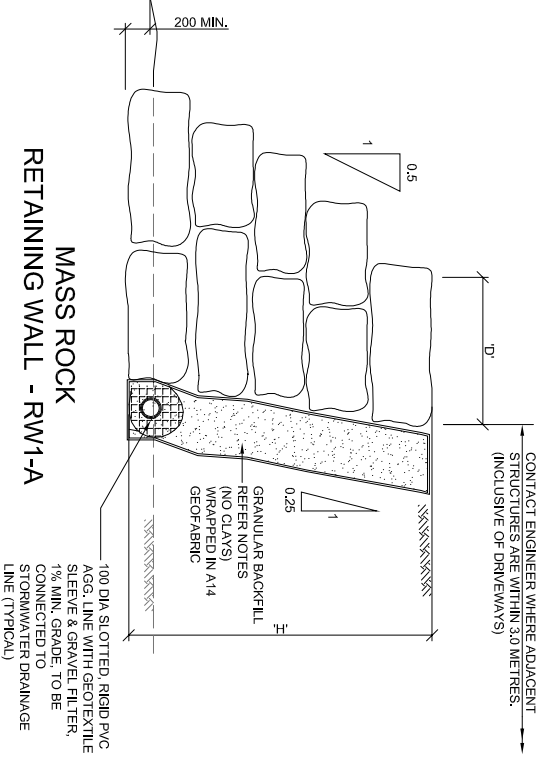
ROCK WALL NOTES (RW)

REMOVABLE STEEL BOLLARD DETAIL - B1
SCALE 1:10

1. DENSITY OF STONE TO BE MINIMUM 1800 Kg/m³
2. BEARING CAPACITY OF GROUND AT BASE OF WALL TO MINIMUM OF 300 kPa.
3. PROVIDE DRAINAGE AT REAR OF WALL IN STRICT ACCORDANCE WITH THE DETAILS SHOWN.
4. MORTAR SHALL BE MIXED IN THE PROPORTIONS: 1:1:8 PARTS LOADMENT: HYDRATED LIME, FINES AND AGGREGATE.
5. A CONTINUOUS 100mm DIA. SUBSOIL DRAIN SHALL BE INSTALLED AT THE REAR OF THE WALL.
6. BACKFILL TO BE GRANULAR FREE DRAINING AND BE IN MEDIUM DENSITY TO DENSE CONDITION.
7. MIN STONE SIZE TO BE 0.5 TONNE IN WEIGHT OR 0.28 CUBIC METRES.
8. STONES TO BE PACKED AT FRONT FACE WITH MORTAR AS REQUIRED TO PREVENT ROLLING OF STONES.

MASS ROCK RETAINING WALL SCHEDULE

WALL HEIGHT H	D	B
1000	500	1000
2000	500	1500



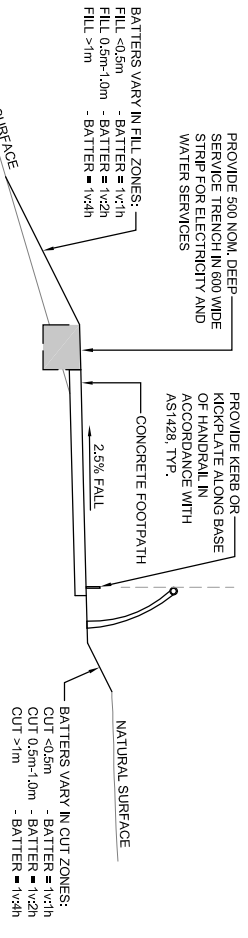
REVISION	DESCRIPTION	DATE	REVISION	DESCRIPTION	DATE
A	PRELIMINARY ISSUE TO QUANTITY SURVEYOR	05.08.15			
B	RE-ISSUE TO QUANTITY SURVEYOR	24.08.15			
C	90% ISSUE QUANTITY SURVEYOR	29.06.15			
D	COUNCIL APPROVAL	19.08.15			

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE.

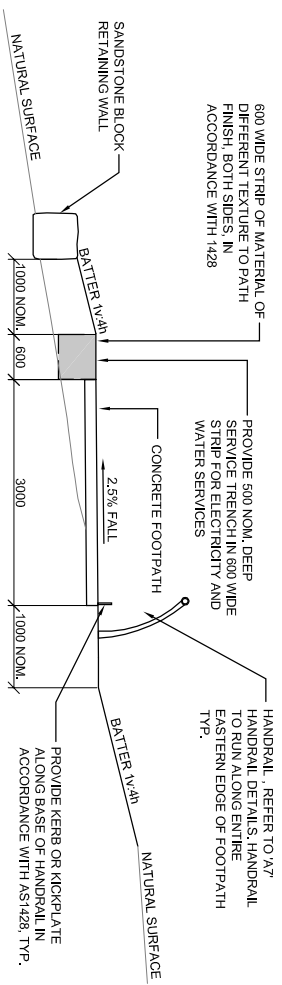
FOR

POSTAL ADDRESS: PO Box 1180, Gosford NSW 2250
GENERAL OFFICE: Suite 35, The Avenue, Gosford NSW 2250
PH: 02 4340 1544
FAX: 02 4340 1544
AMMENDMENT OFFICE: Shop 113, The Junction, Village Centre, Merimbah NSW 2231
PH: 02 4362 2416

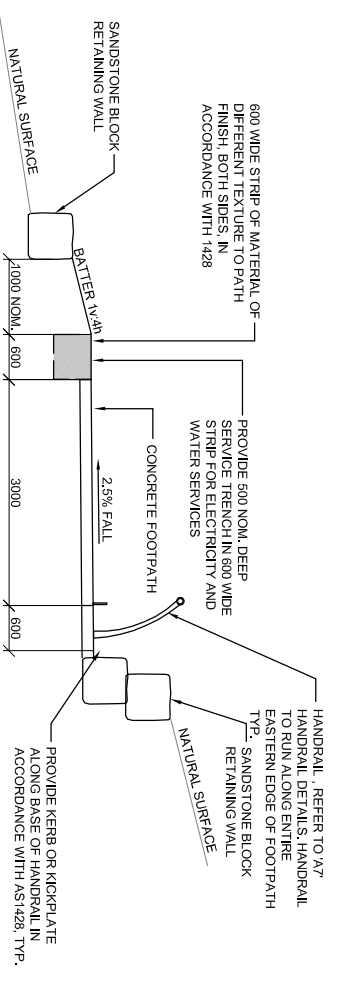
ADDRESS	WINNEY BAY RESERVE COPACABANA N.S.W.
PROJECT	5 LANDS COASTAL WALKWAY - STAGE 5 CAPTAIN COOK LOOKOUT TO WINNEY BAY
DRAWING TITLE	PAVEMENT DETAILS SHEET 2
DRAWN	ASJ
CHECKED	ASJ
DATE	JANUARY 2015
JOB NUMBER	20140492
DATE	
SCALE	A3.10
REVISION	D



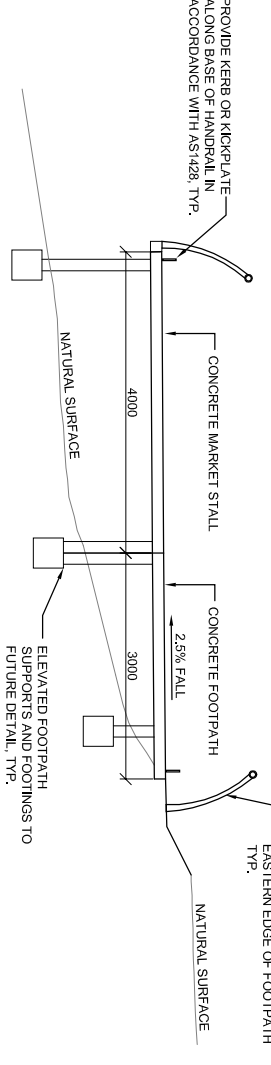
FOOTPATH - TYPICAL SECTION IN CUT/FILL ZONES
SCALE 1:100



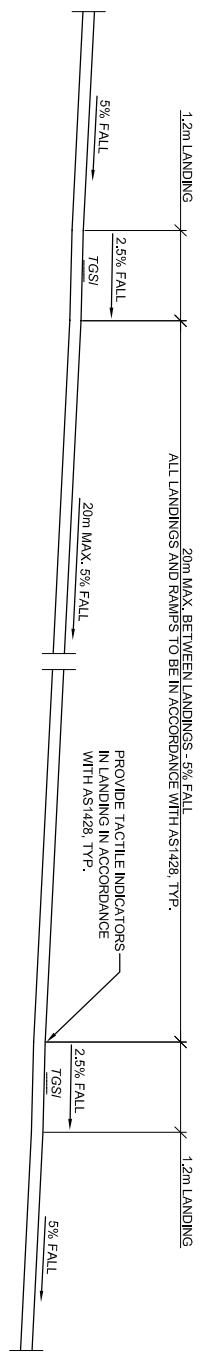
FOOTPATH - TYPICAL SECTION WHERE RETAINING (LOW SIDE)
SCALE 1:100



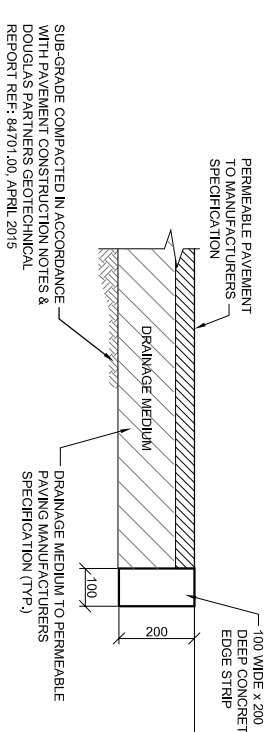
FOOTPATH - TYPICAL SECTION WHERE RETAINING (HIGH SIDE)
SCALE 1:100



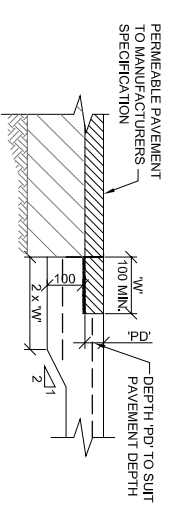
TYPICAL SECTION WHERE FOOTPATH/MARKET STALL SUSPENDED
SCALE 1:100



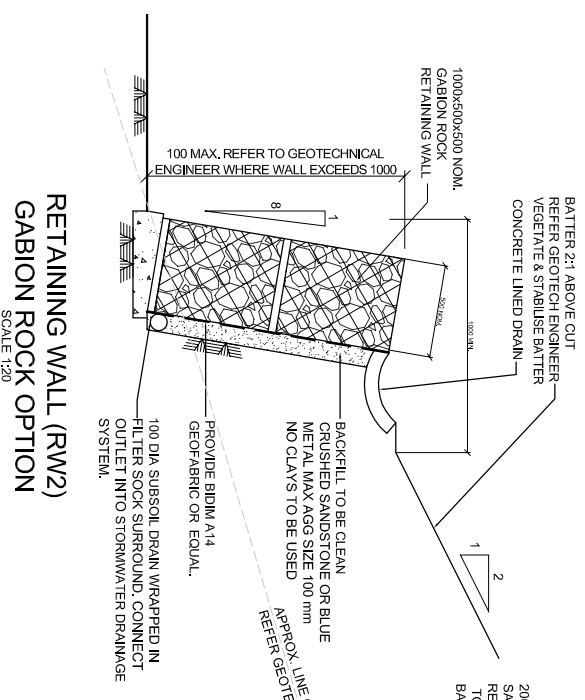
TYPICAL LANDING DETAILS
SCALE 1:100



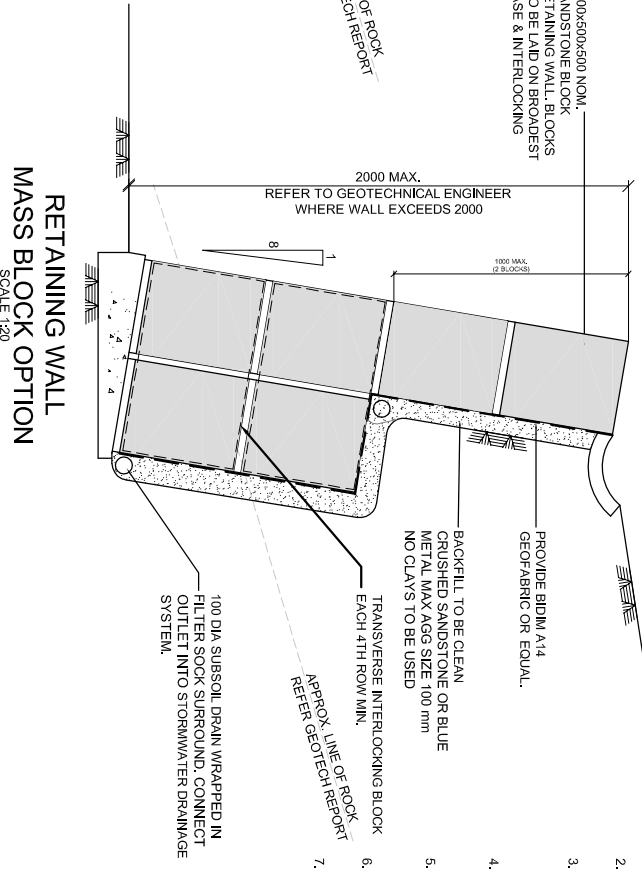
PERMEABLE PAVEMENT
EDGE DETAIL (OPTIONAL)
SCALE 1:20



ISOLATION JOINT (IJ)
AT PAVING INTERFACE
SCALE 1:20



RETAINING WALL (RW2)
GABION ROCK OPTION
SCALE 1:20



RETAINING WALL
MASS BLOCK OPTION
SCALE 1:20

- ROCK WALL NOTES
- NOTE:
1. DENSITY OF STONE TO BE MINIMUM 1800 kg/m³
 2. BEARING CAPACITY OF GROUND AT BASE OF WALL TO BE A MINIMUM OF 600 kPa.
 3. MORTAR SHALL BE MIXED IN PORTLAND CEMENT: HYDRATED LIME: FINES AND AGGREGATE.
 4. A CONTINUOUS 100mm DIA SUBSOIL DRAIN SHALL BE INSTALLED AT THE REAR OF EACH 4TH ROW MIN.
 5. BACKFILL TO BE GRANULAR FREE DRAINING AND BE IN MEDIMUM DENSE TO DENSE CONDITION.
 6. MIN STONE SIZE TO BE 0.9 TONNE IN WEIGHT OR 0.5 CUBIC METRES.
 7. STONES TO BE Laid ON BROADEST BASE INTERLOCKING AT FRONT FACE TO BE PACKED WITH MORTAR AS REQUIRED TO PREVENT ROLLING OF STONES.

CONCEPT PLANS
NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE	REVISION	DESCRIPTION	DATE
A	PRELIMINARY ISSUE TO QUANTITY SURVEYOR	05.08.15			
B	RE-ISSUE TO QUANTITY SURVEYOR	24.08.15			
C	90% ISSUE	29.08.15			
D	COUNCIL APPROVAL	19.08.15			

FOR

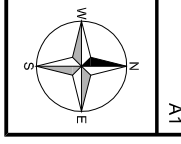
ADDRESS
WINNEY BAY RESERVE
COPACABANA N.S.W.

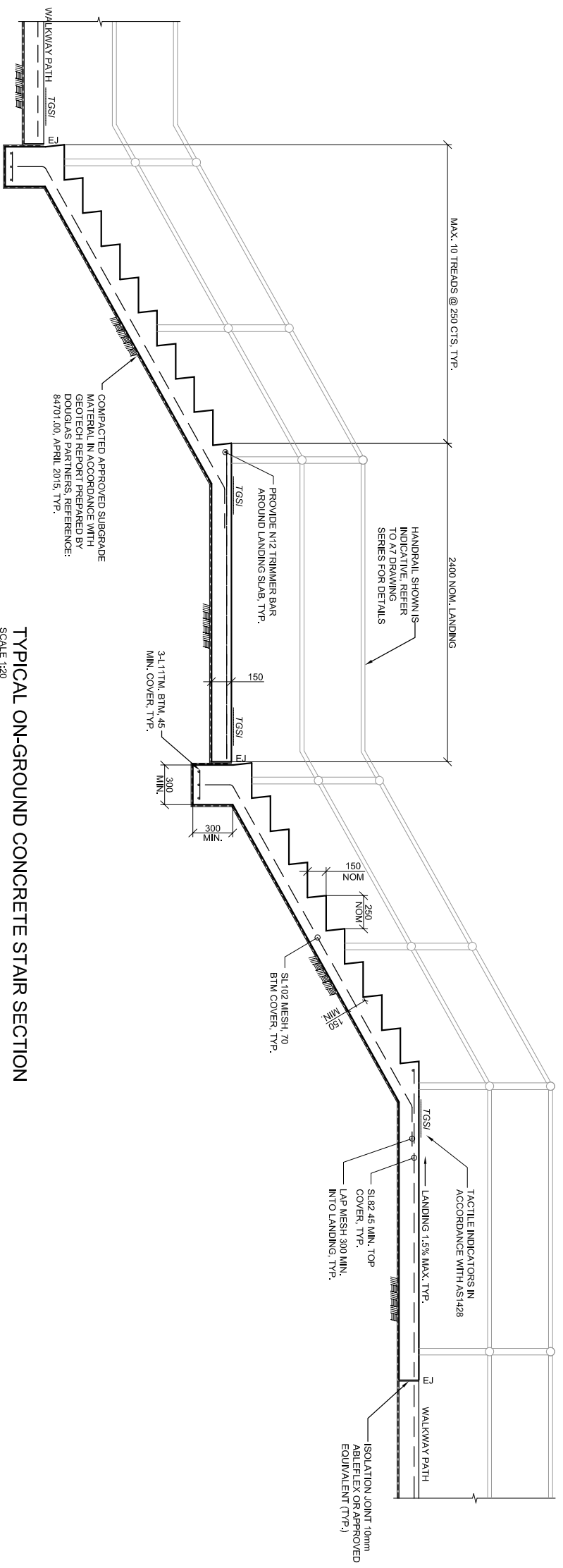
PROJECT
5 LANDS COASTAL WALKWAY - STAGE 5
CAPTAIN COOK LOOKOUT TO WINNEY BAY

DRAWING TITLE
PAVEMENT DETAILS
SHEET 3

ANTHONY JOHN GRIFFITHS
MIE AUST CPENG 2342830

SCALE	DATE	BY	CHKD	REV
AS 3.11	JANUARY 2015			D





TYPICAL ON-GROUND CONCRETE STAIR SECTION

- SCALE: 1:20
- NOTES:
1. MAXIMUM NUMBER OF STEPS PER FLIGHT = 10 STEPS.
 2. MINIMUM NUMBER OF STEPS PER FLIGHT = 2 STEPS.
 3. HAND RAILING SHALL BE PROVIDED WHERE THERE ARE MORE THAN 4 RISERS IN ON FLIGHT. PROVIDE ON ONE SIDE ONLY.
 4. HANDRAILING TO BE HOT DIPPED GALVANISED.

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE.

REVISION	DESCRIPTION	DATE	REVISION	DESCRIPTION	DATE
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B	90% ISSUE	29.08.15			
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RGH CONSULTING GROUP
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The Junction NSW 2291
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FOR

GOSFORD CITY COUNCIL
CENTRAL SPORT

5 LANDS WALK
CENTRAL COAST - NEW SOUTH WALES

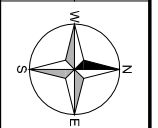
ADDRESS: WINNEY BAY RESERVE
COPACABANA N.S.W.

PROJECT: 5 LANDS COASTAL WALKWAY - STAGE 5
CAPTAIN COOK LOOKOUT TO WINNEY BAY

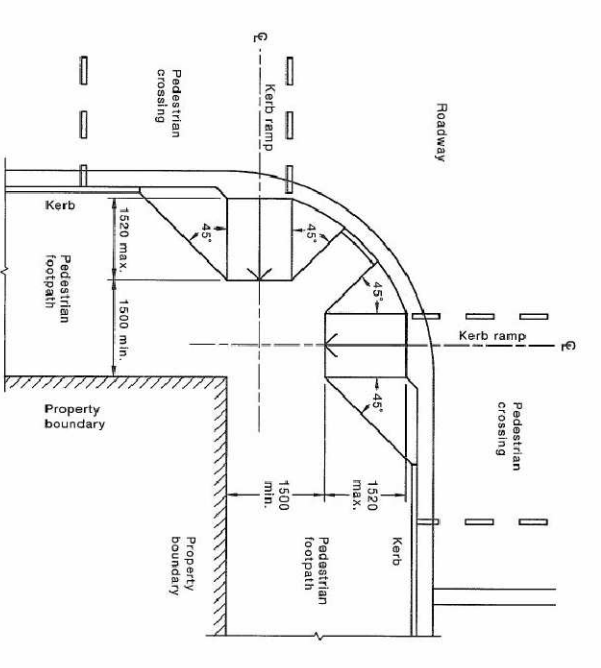
DRAWING TITLE: PAVEMENT DETAILS
SHEET 4

ANTHONY JOHN GRIFFITHS
ME AUST OPENING 2342830

SCALE	1:10	1:20	SHEET
DRAWN	JSGW		A3.12
DESIGNED	CF		
CHECKED	AMG		
DATE	JANUARY 2015		REV
JOB NUMBER	20140492		C



CONCEPT PLANS
NOT FOR CONSTRUCTION



- NOTES:**
- 1 Centre-line of kerb ramps and pedestrian refuges shall align across the road or vehicular driveway within the building/property allotment.
 - 2 Top and bottom of kerb ramps shall be aligned at 90° to path of travel.
 - 3 Top and bottom of kerb ramps shall have a sharp gradient transition.
 - 4 For requirements for tactile ground surface indicators see AS 1428.4.1.
 - 5 For requirements for pedestrian lights and push-button assemblies see AS 1742.14.

FIGURE 23 (in part) ALIGNMENT OF KERB RAMP

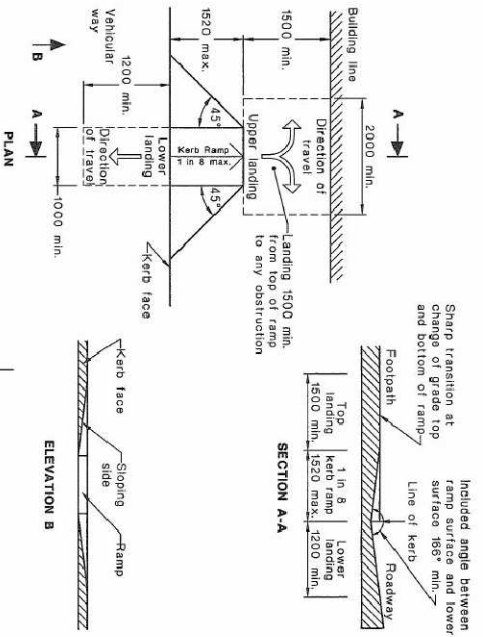


FIGURE 24(A) INSERTED KERB RAMP

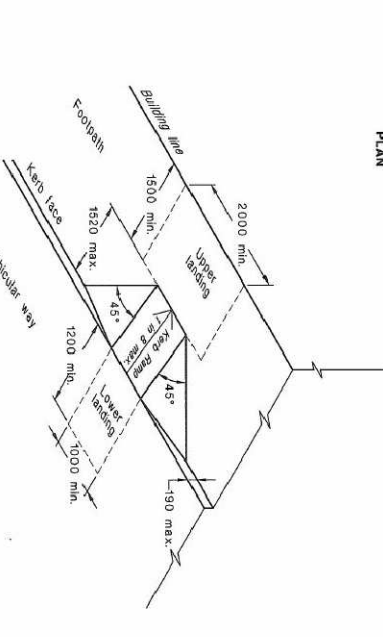


FIGURE 26(B) STAIRWAY LOCATION AND HANDRAIL EXTENSIONS AT END OF STAIRWAY OTHER THAN AT LINE OF BOUNDARY

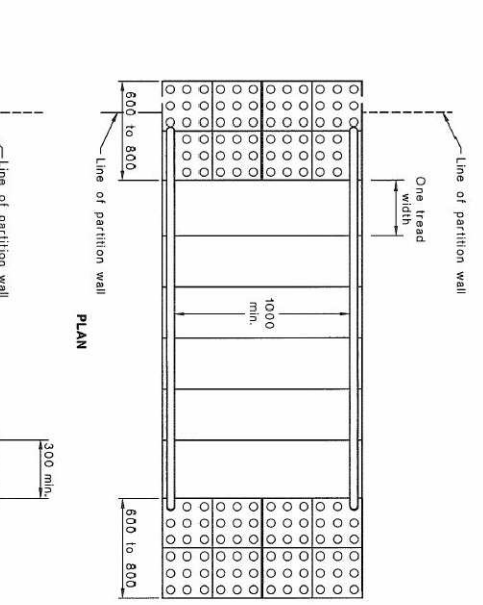


FIGURE 27.1 DESIGN AND ARRANGEMENT OF TGSIS FOR INSTALLATION DETAIL

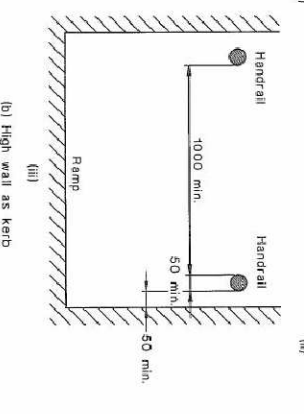
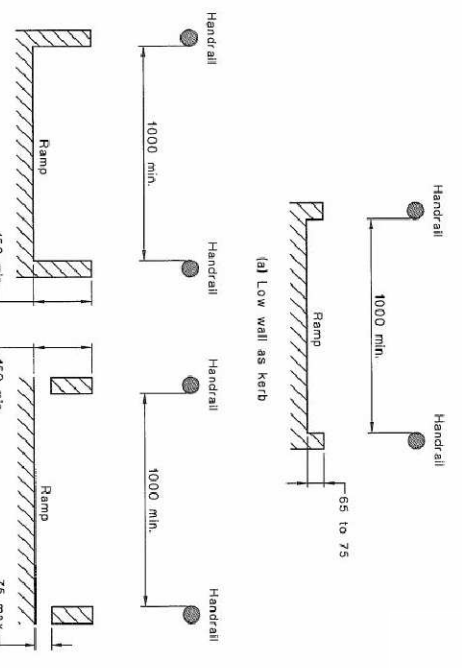


FIGURE A1 (in part) TYPES OF KERBS

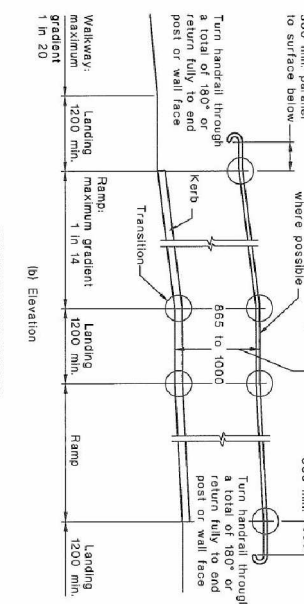
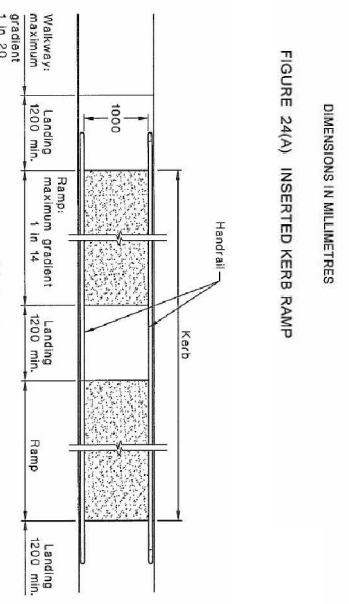


FIGURE 14 RAMP HANDRAILS

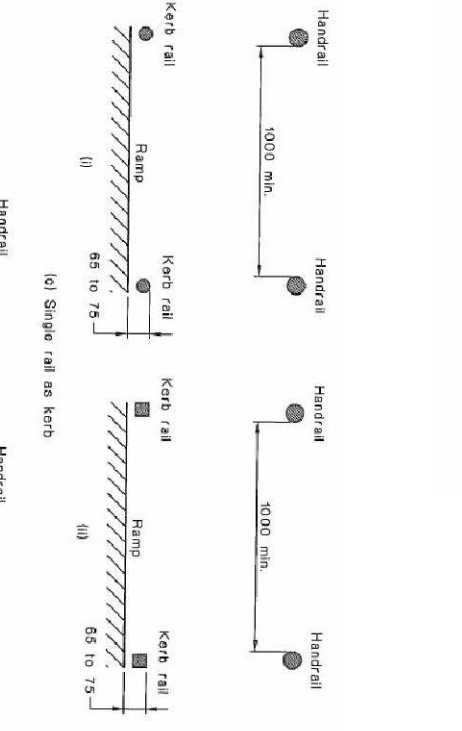


FIGURE 19 SECTION SHOWING LOCATION OF KERB OR KERB RAIL IN RELATION TO HANDRAIL WITH VERTICAL SUPPORT

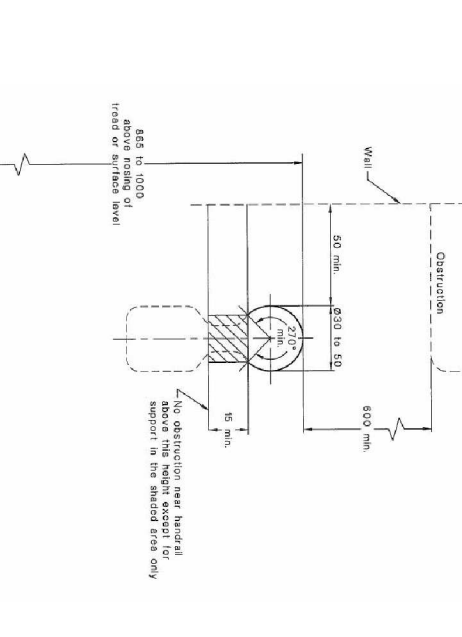


FIGURE 28 (in part) HANDRAILS

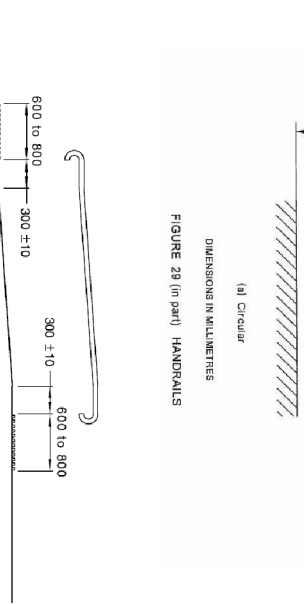


FIGURE 23(B) WARNING INDICATORS—RAMPS

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<p style="text-align: center;">CONCEPT PLANS NOT FOR CONSTRUCTION</p>		<p style="text-align: center;">AS1428 DETAILS</p>	
<p>DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE.</p>		<p>THIS SHEET IS FOR INFORMATION ONLY. ALL DETAILS ARE TO BE READ IN CONJUNCTION WITH THE ENTIRE STANDARD AS 1428 - 2009 & ALL OTHER RELEVANT STANDARDS.</p>	
<p>FOR</p>		<p>ADDRESS</p>	
<p>RGH CONSULTING GROUP</p>		<p>WINNEY BAY RESERVE COPACABANA N.S.W.</p>	
<p>GOSEFORD CITY COUNCIL</p>		<p>PROJECT</p>	
<p>5 LANDS WALK</p>		<p>5 LANDS COASTAL WALKWAY - STAGE 5 CAPTAIN COOK LOOKOUT TO WINNEY BAY</p>	
<p>POSTAL ADDRESS: PO BOX 1180, GOSFORD NSW 2250 CENTRAL COAST OFFICE: SUITE 35, THE AVENUE, MARRAS NSW 2250 PHONE: 02 4340 1911 FAX: 02 4340 1544 MARRAS OFFICE: SUITE 111, THE JUNCTION VALLEY CENTRE, MARRAS NSW 2250 PHONE: 02 4342 2416</p>		<p>DRAWING TITLE</p>	
<p>AS1428 DETAILS</p>		<p>ANTHONY JOHN GRIFFITHS MIE AUST OPENING 2342830</p>	
<p>SCALE</p>		<p>SHEET</p>	
<p>BROWN JGWV</p>		<p>A3.13</p>	
<p>DESIGNED CF</p>		<p>CHECKED AJS</p>	
<p>DATE JANUARY 2015</p>		<p>REV</p>	
<p>DATE 20/10/2012</p>		<p>D</p>	
<p>JOB NUMBER</p>		<p>DATE</p>	
<p>20140402</p>		<p>DATE</p>	
<p>DATE</p>		<p>DATE</p>	
<p>DATE</p>		<p>DATE</p>	

