

SYDNEY INTERNATIONAL CONVENTION,
EXHIBITION AND ENTERTAINMENT PRECINCT
(SICEEP)
DARLING SQUARE
NORTH PLOT AND THE SQUARE
DEVELOPMENT APPLICATION



LOCALITY PLAN
N.T.S.

DARLING HARBOUR LIVE

REFERENCE MAP

NOTES:

1. DO NOT SCALE FROM DRAWINGS. USE WRITTEN DIMENSIONS ONLY.

2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

3. ALL COORDINATES TO MGA. ALL LEVELS TO AHD.

4. ALL DIMENSIONS, COORDINATES AND LEVELS TO BE VERIFIED ON SITE BEFORE PROCEEDING WITH WORK. HYDER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.

5. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS AND DRAWINGS.

6. THIS DRAWING CONTAINS COLOUR AND MUST ONLY BE PRINTED OR COPIED IN COLOUR.

REV	DESCRIPTION	DATE
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

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PROJECT

**SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE**

DRAWING TITLE

**TITLE SHEET AND
LOCALITY PLAN**

STATUS

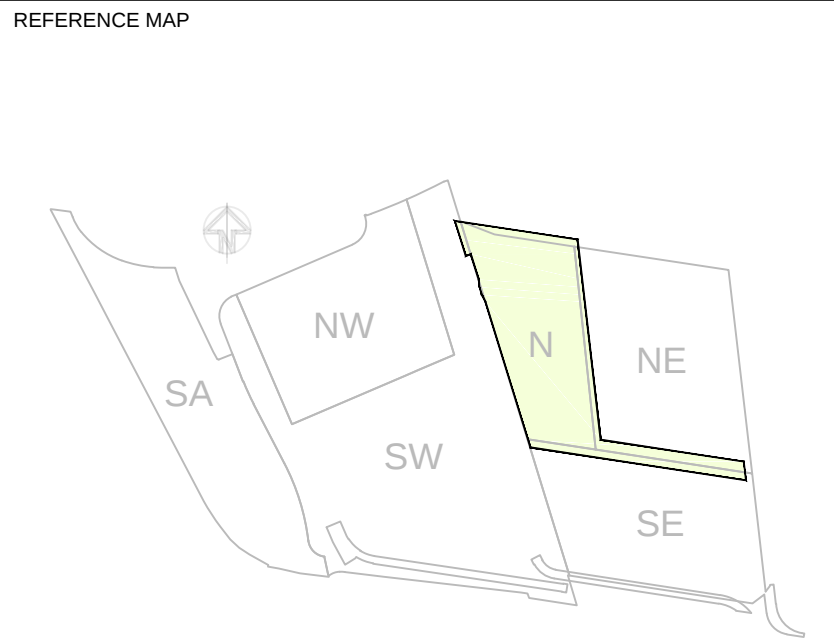
DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
-	LC	-	MBK	MBK

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	PD-CI-5001	02

GENERAL	
PD-CI-5001	TITLE SHEET AND LOCALITY PLAN
PD-CI-5002	DRAWING LIST
PD-CI-5005	GENERAL NOTES SHEET 1
PD-CI-5006	GENERAL NOTES SHEET 2
PD-CI-5011	GENERAL ARRANGEMENT PLAN
PD-CI-5021	SURVEY AND EXISTING SERVICES PLAN (DBYD)
PD-CI-5022	SURVEY AND EXISTING SERVICES PLAN (ROBERT BIRD GROUP)
PD-CI-5101	DEMOLITION AND SITE CLEARANCE PLAN
PD-CI-5151	BULK EARTHWORKS PLAN
SEDIMENT AND EROSION CONTROL	
PD-CI-5201	SEDIMENT AND EROSION CONTROL PLAN
PD-CI-5221	SEDIMENT AND EROSION CONTROL DETAILS
CIVIL WORKS AND STORMWATER DRAINAGE	
PD-CI-5301	CIVIL WORKS AND STORMWATER PLAN
SERVICES	
PD-CI-5901	COMBINED SERVICES PLAN (DBYD)
PD-CI-5902	COMBINED SERVICES PLAN (ROBERT BIRD GROUP)

DARLING HARBOUR LIVE



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PROJECT

SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE



DRAWING TITLE

DRAWING LIST

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
-	LC	-	MBK	MBK
PROJECT NUMBER	DRAWING NUMBER			REV
AA004399	PD-CI-5002			02

REFER DRAWING PD-CI-5005 FOR BEGINNING OF NOTES

CONCRETE WORKS NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 1379 AND AS/NZ 3600 AND OTHER APPLICABLE AUSTRALIAN STANDARDS (EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS).
2. BEAM DEPTHS. ARE WRITTEN FIRST AND INCLUDES SLAB THICKNESS, BEAMS AND SLABS ARE TO BE CAST TOGETHER (MONOLITHIC) U.N.O.
3. ELEMENTS. SIZES OF CONCRETE ELEMENTS ARE EXCLUSIVE OF THICKNESS OF APPLIED FINISHES.
4. ENGINEER'S APPROVAL REQUIRED. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
5. CONSTRUCTION JOINT LOCATIONS. CONSTRUCTION JOINTS SHALL BE FULLY FORMED AS DETAILED ON THE DRAWINGS AND ONLY BE USED WHERE SHOWN ON THE DRAWINGS OR SPECIFICALLY APPROVED BY THE ENGINEER.
6. EXPOSED EDGES. ALL EXPOSED EDGE CORNERS OF CONCRETE COLUMNS AND SLABS / BEAMS SHALL HAVE 15 mm CHAMFER U.N.O.
7. CAMBER TO SUSPENDED SLABS. SHALL BE POSITIVE UPWARD CAMBER OF 3mm OVER 1000mm SPAN U.N.O. BEAMS SHALL BE CAMBERED AS SHOWN ON DRAWINGS. NO CAMBER IS REQUIRED TO POST-TENSIONED BEAMS AND SLABS U.N.O.
8. QUALITY. CONCRETE MAXIMUM AGGREGATE SIZE SHALL BE 20mm AND QUALITY SHALL BE AS FOLLOWING TABLE:

ELEMENT	F'c (MPa)
PILE / SHORING WALL	40
COLUMN	50
WALLS	50
BASE SLAB	50
ROOF SLAB	50

NOTE: SHRINKAGE AT 56 DAYS SHALL NOT EXCEED 650 MICROSTRAN.
- ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS & PITS	32	80	20
RETAINING WALLS	32	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL

- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
9. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY HYDER CONSULTING.
10. CONCRETE CLASS AND COLOUR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CONCRETE CLASS AND COLOUR REQUIREMENTS.
11. CEMENT GRADE. ALL CEMENT IS TO BE SHRINKAGE LIMITED (SL) CEMENT OR GENERAL BLENDED (GB) CEMENT OR TYPE SULPHATE-RESISTING CEMENT (SR) AS REQUIRED, COMPLYING WITH AS 3972 U.N.O. ON THE DRAWINGS.

CEMENT TYPE:
60% SL CEMENT
33% FLY ASH
7% AMORPHOUS SILICA
MINIMUM CEMENT CONTENT = 370kg/m³
MAXIMUM WATER : CEMENT RATIO = 0.45
- CONCRETE SUPPLIER MUST PROVIDE CONCRETE MIX CERTIFICATE PRIOR TO CONSTRUCTION COMMENCING.
12. 'D' DURABLE CONCRETE. WHERE THE LETTER 'D' APPEARS BESIDE A CONCRETE ELEMENT, THIS SYMBOLISES SPECIAL DURABLE CONCRETE WHERE THE ELEMENT HAS AT LEAST ONE FACE EXPOSED TO THE WEATHER OR POSSIBLE CORROSIVE ATTACK. (THIS CONCRETE REQUIRES A SPECIAL TOLERANCE FOR THE COVERS OF -0mm +10mm). SPECIAL PRECAUTIONS ARE REQUIRED TO IMPROVE THE LONG TERM PERFORMANCE OF THESE FACES OF CONCRETE. IN PARTICULAR, NO METAL INSERTS, METAL BAR CHAIRS OR METAL FORM SPACES OF ANY KIND ARE TO BE PLACED IN THE COVER ZONE WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER. TAKE SPECIAL CARE TO AVOID SCRAP TIE WIRE OR OTHER MATERIAL BEING PRESENT. ANY OFF-CUTS, SCRAP OR FOREIGN MATERIAL SHALL BE REMOVED BEFORE POUR BEGINS. REFER DRAWINGS FOR LOCATIONS.
13. MAXIMUM SLUMP ALLOWANCE. CONCRETE SLUMP SHALL BE 80mm IN COMPLIANCE WITH AS 1379 U.N.O. ON THE DRAWINGS.
14. CONCRETE POUR GUIDELINES. FREE DROPPING OF CONCRETE FROM HEIGHTS GREATER THAN 1000mm IS NOT PERMITTED UNLESS METHOD APPROVED BY THE ENGINEER.

CONCRETE WORKS NOTES CONTINUED

15. MAXIMUM LIFT OF POUR AT ONE TIME FOR CONCRETE ELEMENTS SHALL BE 3000mm UNLESS METHOD OF PLACEMENT HAS BEEN APPROVED BY THE ENGINEER.
16. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED IN THE FORM TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION OF THE CONCRETE.
17. FORMWORK SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN ACCORDANCE WITH AS 3610 AND AS 3600.
18. SURFACES RECEIVING GROUT AND CONSTRUCTION JOINTS SHALL BE LEFT ROUGH AND FREE OF LAITANCE.
19. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S. SPECIFICATION R83.
20. CURING PERIOD. CONCRETE MUST BE CURED BY AN APPROVED METHOD IN ACCORDANCE WITH THE SPECIFICATION FOR SEVEN (7) DAYS AFTER POURING. CURING COMPOUNDS WHERE APPROVED MUST COMPLY WITH AS 3799.
21. PROPERTIES. THE PROPERTIES OF THE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AS/NZS 4671, REINFORCEMENT CLASSIFICATION.

SHAPE D – DEFORMED. R – ROUND.

STRENGTH GRADE 250,300,500 (LOWER CHARACTERISTICS VALUE OF YIELD STRESS).

DUCTILITY CLASS L – LOW. N – NORMAL

SIZE OR DIAMETER OF BAR N12, N16, N20, N24, N28, N32, N36.
22. DUCTILITY CLASS.

N NORMAL DUCTILITY CLASS: HOT ROLLED DEFORMED BARS OR MESH TO AS/NZ 4671 WITH f_y = 500MPa

R NORMAL DUCTILITY CLASS 250N PLAIN ROUND BAR TO AS/NZS 4671 WITH f_y = 250MPa.

SL DENOTES COLD-DRAWN WIRE REINFORCING FABRIC TO AS 4671. THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 4671

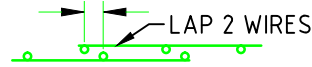
L LOW DUCTILITY CLASS 500L REINFORCING MESH OR BAR TO AS/NZS 4671 WITH f_y = 500MPa.

LOW DUCTILITY CLASS L REINFORCEMENT IS NOT TO BE USED OTHER THAN WHERE SHOWN ON DRAWINGS. THE NUMBER FOLLOWING THE BAR SYMBOL IS THE NOMINAL BAR DIAMETER IN MILLIMETRES (REFER CLAUSE C19 ABOVE).

NUMBER OF BARS IN GROUP $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ BAR GRADE AND TYPE T20-T250

NOMINAL BAR SIZE IN mm $\frac{1}{4}$ L SPACING IN mm
23. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

25mm MINIMUM


24. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
25. REINFORCEMENT MINIMUM COVER TABLE.

MINIMUM CONCRETE COVER	
ELEMENT	COVER
PILE / SHORING WALL	75mm
BASE SLAB	65mm
ROOF SLAB	65mm
COLUMN	65mm
WALL	65mm
26. SPLICES IN REINFORCEMENT. SHALL ONLY BE MADE IN THE POSITIONS SHOWN OR AS OTHERWISE APPROVED BY THE ENGINEER. MINIMUM LAP FOR ALL FABRICS SHALL BE THE SPACING OF TWO TRANSVERSE WIRES PLUS 25mm. GRADE 500N BARS SHALL BE LAPPED IN ACCORDANCE WITH THE TENSION DEVELOPMENT REFER TO STANDARD LAP LENGTH/SPLICE SCHEDULE ON DRAWINGS. TABLES IN REINFORCEMENT SECTION R08.
27. WELDING NOT PERMITTED. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
28. REINFORCEMENT SUPPORT. DURING CONCRETE PLACEMENT ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED AND HELD IN ITS CORRECT POSITION BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS AT 1000mm MAXIMUM CENTRES. THE CHAIR MATERIAL WITHIN THE COVER ZONE SHALL SUIT THE EXPOSURE CONDITIONS.
29. REINFORCEMENT LENGTHS. REINFORCEMENT LENGTHS INDICATED ARE IN MILLIMETRES (mm). TURN DOWNS AND CRANKS ARE NOT INCLUDED IN THE DIMENSION. THE CONTRACTOR SHALL CHECK ALL LENGTHS BEFORE ORDERING.
30. ALTERNATE BAR PLACEMENT. BARS SHOWN STAGGERED ON PLAN SHALL BE PLACED ALTERNATELY.
31. BAR DISTRIBUTION. BARS SHALL BE EVENLY DISTRIBUTED OVER THE WIDTH OF THE STRIP INDICATED ON THE DRAWINGS U.N.O.

CONCRETE WORKS NOTES CONTINUED

32. EMBEDMENTS. ALL EMBEDMENTS SHALL BE HOT DIPPED GALVANISED (H.D.G) U.N.O.
33. CONCRETE BOND SEPARATION. CONCRETE SHALL BE SEPARATED FROM SUPPORTING MASONRY BY TWO LAYERS OF MALTHOID (OR AN APPROVED EQUIVALENT). VERTICAL JOINTS IN CONCRETE EXCEPT FOR CONSTRUCTION JOINTS (CJ'S) SHALL BE KEPT FREE OF ADJOINING SURFACES BY 10mm THICKNESS OF ABLEFLEX (OR APPROVED EQUIVALENT) U.N.O. ON DRAWINGS. ALL NON-LOADBEARING WALLS SHALL BE KEPT CLEAR OF THE UNDERSIDE OF THE SLABS AND BEAMS BY 20MM (MINIMUM) (U.N.O.) ON THE DRAWINGS. ENSURE THE REQUIRED FIRE PROTECTION BARRIER TREATMENT IS INSTALLED TO THESE AREAS.
34. CONCRETE SHRINKAGE. SHRINKAGE OF CONCRETE SHALL NOT EXCEED 650 MICROSTRAN AT 56 DAYS. SUBMIT SAMPLES OF SHRINKAGE TESTS WITH (MIX DESIGN) FOR APPROVAL PRIOR TO COMMENCEMENT OF CONCRETE WORKS.

STRUCTURAL INSPECTIONS

1. STRUCTURAL INSPECTIONS ARE REQUIRED FOR STRUCTURES WHERE NOTED ON PLANS OR REQUIRED BY COUNCIL.
2. 48 HOURS NOTICE IS REQUIRED BY HYDER CONSULTING FOR ALL INSPECTIONS.

RAINGARDEN NOTES

1. THE UNDERDRAIN FOR THE BIORETENTION SYSTEM SHALL BE SLOTTED PVC PIPE TO THE REQUIREMENTS OF AS2439 PART 1 ACCORDING TO THE FOLLOWING:
 - MINIMUM SPACING FOR SYSTEMS IS 1.5m AS SHOWN ON DRAWINGS.
 - THE MINIMUM CLEAR OPENING FOR SLOTS SHOULD BE 1500mm²/m WITH THE MAXIMUM SLOT WIDTH OF 15mm.
 - ALL PIPE JUNCTIONS AND CONNECTIONS TO THE OVERFLOW PIT SHALL BE SEALED TO PREVENT SOIL ENTERING THE PIPE NETWORK.
 - FILTER CLOTH WRAPPINGS OR SOCKS ARE NOT PERMITTED AROUND SLOTTED UNDERDRAINS.
 - AN INSPECTION WELL SHALL BE PROVIDED BY EXTENDING THE UNDERDRAIN VERTICALLY BEYOND THE SURFACE OF THE BIORETENTION SYSTEM BY A MINIMUM OF 50mm. ALL VERTICAL SECTIONS OF THE UNDERDRAIN SHALL NOT BE PERFORATED AND SHALL BE CAPPED WITH SECURED SCREWS TO REDUCE THE RISK OF VANDALISM. USE 45 DEGREE ELBOWS RATHER THAN 90 DEGREE ELBOWS TO FACILITATE ENTRY OF MAINTENANCE EQUIPMENT.
2. UNDERDRAINS SHALL BE LAID IN A MINIMUM OF 150mm DRAINAGE LAYER COMPRISED OF FINE GRAVEL (2-51mm, WITH <2% FINES AND HYDRAULIC CONDUCTIVITY OF 4000 mm/hr. THE DRAINAGE LAYER DEPTH MUST ENSURE AT LEAST 50mm COVER OVER THE UNDERDRAIN. BRIDGING CRITERIA SHALL BE APPLIED TO AVOID MIGRATION OF THE TRANSITION LAYER INTO THE DRAINAGE LAYER. D_g (DRAINAGE LAYER) ≤ 5 X D₉₅ (TRANSITION LAYER).
3. WHERE INDICATED ON THE DESIGN DRAWINGS, A TRANSITION LAYER SHALL BE INCLUDED. THE TRANSITION LAYER MATERIAL SHALL BE CLEAN, WELL GRADED SAND MATERIAL (TYPICALLY 1mm) CONTAINING <2% FINES. THE PARTICLE SIZE DISTRIBUTION OF THE SAND SHALL BE ASSESSED TO MEET BRIDGING CRITERIA THAT THE SMALLEST 15% OF THE SAND PARTICLES BRIDGE WITH THE LARGEST 15% OF THE FILTER MEDIA. D₉₅ (TRANSITION LAYER) ≤ 5 X D₈₅ (FILTER MEDIA).
4. BIORETENTION FILTER MEDIA SHALL COMPLY WITH THE FOLLOWING:
 - HAVE A MINIMUM HYDRAULIC CONDUCTIVITY OF 200mm/hr. THIS SHOULD BE MEASURED ACCORDING TO ASTM F1815-06. STANDARD TEST METHODS FOR SATURATED HYDRAULIC CONDUCTIVITY, WATER RETENTION, POROSITY AND BULK DENSITY OF PUTTING GREEN AND SPORTS TURF ROOT ZONES METHOD. HAVE TOTAL CLAY AND SILT MIX LESS THAN 3% (W/W) TO REDUCE THE LIKELIHOOD OF STRUCTURAL COLLAPSE OF SUCH SOILS.
 - THE FILTER MEDIA SHALL BE WELL GRADED LOAMY SAND WITHOUT GAP IN THE PARTICLE SIZE GRADING AND THE COMPOSITION SHALL NOT BE DOMINATED BY A SMALL PARTICLE SIZE RANGE. THE FOLLOWING IS A GUIDE FOR THE FILTER MEDIA PARTICLE SIZE DISTRIBUTION:

CLAY & SILT	<3%	(<0.05mm)
VERY FINE SAND	5-30%	(0.05-0.15mm)
FINE SAND	10-30%	(0.15-0.25mm)
MEDIUM TO COARSE SAND	40-60%	(0.25-1.0mm)
COARSE SAND	7-10%	(1.0-2.0mm)
FINE GRAVEL	<3%	(2.0-3.4mm)
 - FILTER MEDIA SHALL BE TESTED (ACCORDING TO AS4419-2003) TO COMPLY WITH THE FOLLOWING:
 - TOTAL NITROGEN (TN) CONTENT < 1000mg/kg
 - ORTHOPHOSPHATE (PO4) CONTENT < 80mg/kg
 - ORGANIC MATTER AT LEAST 3% (W/W)
 - PH 5.5-7.5 (PH IS IN WATER)
 - ELECTRICAL CONDUCTIVITY (EC) < 12 dS/m
 - DISPERSIBILITY
5. AN ALTERNATIVE OPTION FOR BIORETENTION FILTER MEDIA IS AN ENGINEERED FILTER MEDIA. THIS IS A WASHED, WELL-GRADED SAND WITH APPROPRIATE HYDRAULIC CONDUCTIVITY (SUCH AS MATERIALS USED FOR CONSTRUCTION OF GOLF GREENS). THE TOP 100mm OF THE FILTER MEDIA SHALL THEN BE AMELIORATED WITH APPROPRIATE ORGANIC MATTER, FERTILISER AND TRACE ELEMENTS AS SHOWN BELOW:

CONSTITUENT	QUANTITY (kg/100m² FILTER AREA)
GRANULATED POULTRY MANURE FINES	50
SUPERPHOSPHATE	2
MAGNESIUM SULPHATE	3
POTASSIUM SULPHATE	2
TRACE ELEMENT MIX	1
FERTILISER NPK (16,4,14)	4
LIME	20
6. POTENTIAL FILTER MEDIA SHALL BE ASSESSED BY A HORTICULTURALIST TO ENSURE THAT THEY ARE CAPABLE OF SUPPORTING A HEALTHY VEGETATION COMMUNITY.
7. THE BIORETENTION FILTER MEDIA SHALL BE TESTED TO DEMONSTRATE COMPLIANCE WITH THE ABOVE-MENTIONED REQUIREMENTS AT THE FOLLOWING FREQUENCIES:
 - FOR BIORETENTION SYSTEMS <500m², ONE SAMPLE PER 500m³ OF FILTER MEDIA.
 - FOR BIORETENTION SYSTEMS >500m², ONE SAMPLE PER 500m³ OF FILTER MEDIA FOR THE HYDRAULIC CONDUCTIVITY TEST PLUS ONE SAMPLE PER 2000m³ OF FILTER MEDIA FOR ALL OTHER REQUIRED TESTS.
8. TESTING SHALL BE UNDERTAKEN ON THE ACTUAL MATERIAL TO BE DELIVERED TO THE SITE. THE SUPPLIER AND CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THE FILTER MEDIA MEETS THE SPECIFICATIONS AND THE CORRECT MATERIAL IS DELIVERED TO THE SITE PRIOR TO INSTALLATION. THE SUPPLIER SHALL ARRANGE FOR THE FILTER MEDIA TO BE TESTED BY A CERTIFIED SOIL LABORATORY IN ACCORDANCE WITH THE ABOVE SPECIFICATIONS. ON THE BASIS OF THE TESTING, THE SOIL LABORATORY AND SUPPLIER SHALL CERTIFY THAT THE MATERIAL MEETS THESE SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COPY OF THE SUPPLIER'S CERTIFICATION, TEST RESULTS AND SUPPLY DOCKET TO THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) FOR REVIEW AND APPROVAL.

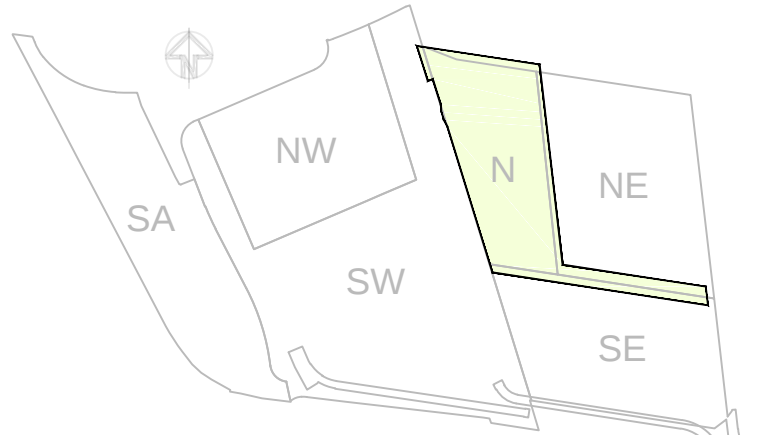
RAINGARDEN NOTES (CONTINUED)

9. AN IN-SITU MEASUREMENT OF HYDRAULIC CONDUCTIVITY SHALL BE UNDERTAKEN FOLLOWING COMPLETING THE CONSTRUCTION OF THE BIORETENTION SYSTEM AND PRIOR TO HANDOVER OF THE SYSTEM. THIS TESTING SHALL BE ACCORDING TO PRACTICE NOTE 1: IN-SITU MEASUREMENT OF HYDRAULIC CONDUCTIVITY (HATT AND LE COUSTUMER, APRIL 2008), WHICH CAN BE FOUND IN HTTP://WWW.MONASH.EDU.AU/FAWB/PUBLICATIONS.
10. THE FILTER MEDIA SHALL BE LIGHTLY COMPACTED DURING INSTALLATION TO PREVENT MIGRATION OF FINE PARTICLES. A SINGLE PASS OF COMPACTING MACHINERY (VIBRATING PLATE FOR SMALL SYSTEMS AND DRUM LAWN ROLLER FOR LARGER SYSTEMS) SHALL BE USED. NO HEAVY COMPACTION OR MULTI-PASS SHALL BE MADE.
11. FILTER MEDIA SHALL BE INSTALLED IN TWO LIFTS FOR DEPTHS OF OVER 500mm.
12. TO ENSURE BIORETENTION SYSTEMS ARE NOT DAMAGED DURING THE DEVELOPMENT PHASE OF THE PROJECT, CONSTRUCTION OF THE BIORETENTION SYSTEMS SHALL BE DELAYED UNTIL 85% OF THE BUILDING PHASE (CONSTRUCTION OF CIVIL WORKS, SERVICES, ROADS AND BUILDINGS) ARE COMPLETED. ALTERNATIVELY, THE CIVIL WORKS FOR BIORETENTION SYSTEMS CAN BE UNDERTAKEN ACCORDING TO THE DESIGN SPECIFICATIONS WHILE TEMPORARY PROTECTIVE MEASURES INSTALLED TO PREVENT CLOGGING OF THE FILTER MEDIA DURING THE BUILDING PHASE. THESE BUILDING PHASE PROTECTION MEASURES SHALL INVOLVE THE FOLLOWING:
 - INSTALLING SEDIMENT FENCES AROUND THE PERIMETER OF THE FILTER MEDIA AND THE TOP OF THE BATTER TO PREVENT SEDIMENT FROM BEING CARRIED INTO THE SYSTEM BY OVERLAND FLOW. THE FENCES WOULD CLEARLY SHOW THAT CONSTRUCTION TRAFFIC SHOULD NOT ENTER THE SYSTEM.
 - PARTIALLY PLACING FILTER MEDIA (THICKNESS LESS 75mm) WITH SURFACE COVERED WITH FILTER CLOTH AND LAYING A 75mm THICK SACRIFICIAL FILTER MEDIA OVER TOP TO PROTECT THE BIORETENTION SYSTEM DURING THE CONSTRUCTION AND BUILDING PHASES. DURING THE BUILDING PHASE, THE EXTENDED DETENTION WILL ACT AS A SHALLOW SEDIMENT BASIN.
 - WHEN THE BUILDING PHASE IS 85% COMPLETE, THESE TEMPORARY MEASURES AND ACCUMULATED SEDIMENT CAN BE REMOVED AND THE BIORETENTION SYSTEM CAN BE PLANTED AND ESTABLISHED ACCORDING TO THE LANDSCAPE DESIGN AND SPECIFICATIONS.
13. THE CONSTRUCTION OF THE BIORETENTION SYSTEMS SHALL COMPLY WITH THE FOLLOWING STEPS AND HOLD POINTS:

CONSTRUCTION STEP	HOLD POINT	SUBMISSION DETAILS	RELEASE OF HOLD POINT
BULK EARTHWORKS AND HYDRAULIC STRUCTURES. THIS INCLUDES: - SITE PREPARATION - INSTALLING OVERFLOW PIT AND OUTLET PIPE - UNDERTAKE BULK EARTHWORKS - TRIMMING AND PROFILING	INSPECTION AND SIGN OFF TO CONFIRM COMPLIANCE WITH DESIGN AND TOLERANCES.	AS-CONSTRUCTED SURVEY OF THE SYSTEM AT THIS STAGE INCLUDING HYDRAULIC STRUCTURES.	THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) SHALL INSPECT THE SYSTEM, REVIEW THE AS-CONSTRUCTED SURVEY AND TAKE PHOTOS. IF THE CONSTRUCTED SYSTEM CONFORMS TO THE DESIGN AND SPECIFICATIONS, A SIGN-OFF FORM SHALL BE COMPLETED WITH AS-CONSTRUCTED SURVEY AND PHOTOS AS ATTACHMENTS.
LINER AND UNDER-DRAINAGE. THIS INCLUDES INSTALLING: - UNDERDRAINS - CLEANOUTS	INSPECTION AND SIGN OFF TO CONFIRM COMPLIANCE WITH DESIGN AND TOLERANCES.	SITE INSPECTION	THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) SHALL INSPECT THE SYSTEM AND TAKE PHOTOS. IF THE CONSTRUCTED SYSTEM CONFORMS TO THE DESIGN AND SPECIFICATIONS, A SIGN-OFF FORM SHALL BE COMPLETED WITH PHOTOS AS ATTACHMENTS.
SOURCE MATERIALS FOR BIORETENTION SYSTEM. THIS INCLUDES MATERIALS FOR: - DRAINAGE LAYER - TRANSITION LAYER - FILTER MEDIA	CERTIFICATION AND SIGN OFF OF MATERIALS TO CONFIRM COMPLIANCE WITH TESTING REQUIREMENTS	SUPPLIER CERTIFICATION (THROUGH CERTIFIED SOIL LABORATORY) THAT MATERIALS COMPLY WITH TESTING REQUIREMENTS. TEST RESULTS AND SUPPLY DOCKET	THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) SHALL REVIEW THE SUBMITTED DOCUMENTATION AND IF THE MATERIALS CONFORM TO THE TESTING SPECIFICATIONS, A SIGN-OFF FORM SHALL BE COMPLETED WITH THE SUBMITTED DOCUMENTATION AS ATTACHMENTS.
CONSTRUCTION OF DRAINAGE LAYER, TRANSITION LAYER AND FILTER MEDIA	INSPECTION TO ENSURE BIORETENTION SYSTEM LAYERS ARE CONSTRUCTED TO DESIGN SPECIFICATIONS	SITE INSPECTION	THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) SHALL INSPECT THE SYSTEM AND TAKE PHOTOS. NO STOP TO CONSTRUCTION IS NEEDED
FINAL INSPECTION AND SIGN OFF	INSPECTION AND SIGN OFF TO CONFIRM COMPLIANCE WITH DESIGN AND TOLERANCES	AS-CONSTRUCTED SURVEY OF THE SYSTEM SURFACE AND SURROUNDING BUNDS.	THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) SHALL INSPECT THE SYSTEM, REVIEW THE AS-CONSTRUCTED SURVEY AND TAKE PHOTOS. IF THE CONSTRUCTED SYSTEM CONFORMS TO THE DESIGN AND SPECIFICATIONS, A SIGN-OFF FORM SHALL BE COMPLETED WITH AS-CONSTRUCTED SURVEY AND PHOTOS AS ATTACHMENTS.

DARLING HARBOUR LIVE

REFERENCE MAP



NOTES:

1. DO NOT SCALE FROM DRAWINGS. USE WRITTEN DIMENSIONS ONLY.

2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

3. ALL COORDINATES TO MGA. ALL LEVELS TO AHD.

4. ALL DIMENSIONS, COORDINATES AND LEVELS TO BE VERIFIED ON SITE BEFORE PROCEEDING WITH WORK. HYDER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.

5. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS AND DRAWINGS.

6. THIS DRAWING CONTAINS COLOUR AND MUST ONLY BE PRINTED OR COPIED IN COLOUR.

REV	DESCRIPTION	DATE
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

CLIENT



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KENGO KUMA & ASSOCIATES

ARCHITECT
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PROJECT

SICEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE

DRAWING TITLE

GENERAL NOTES
SHEET 2

STATUS

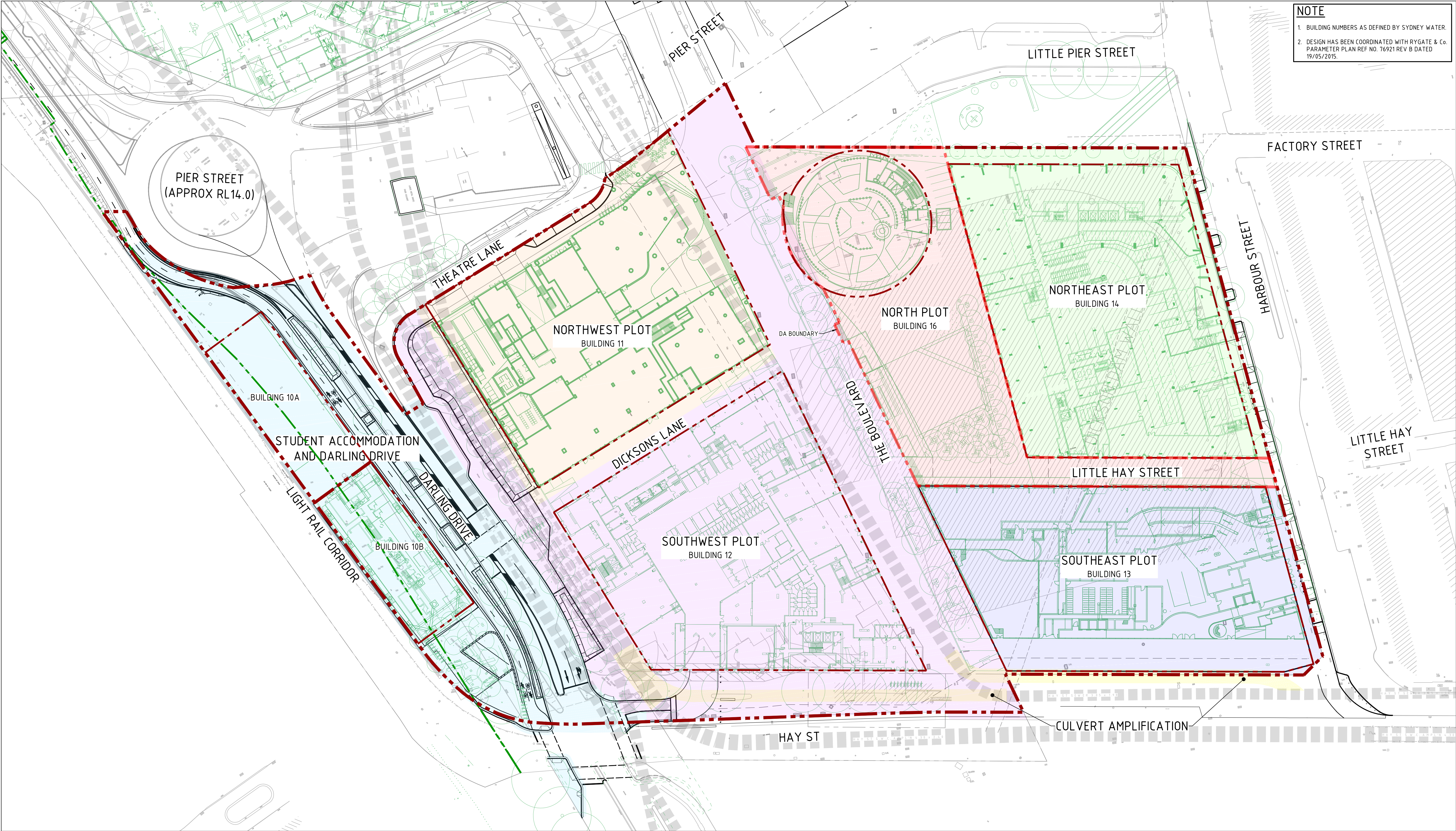
DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
-	LC	-	MBK	MBK

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	PD-CI-5006	02

Date Plotted: 12 Jun 2015 - 09:02AM File Name: F:\AA004399\IE-CAD\IC-Civil\ID-Final\B-PDA\IF-North Plot And Public Domain (PD-CI-5001 - PD-CI-5999)\PD-CI-5006-GeneralNotesSheet2.dwg

Original Sheet Size A1 - 841 x 594mm



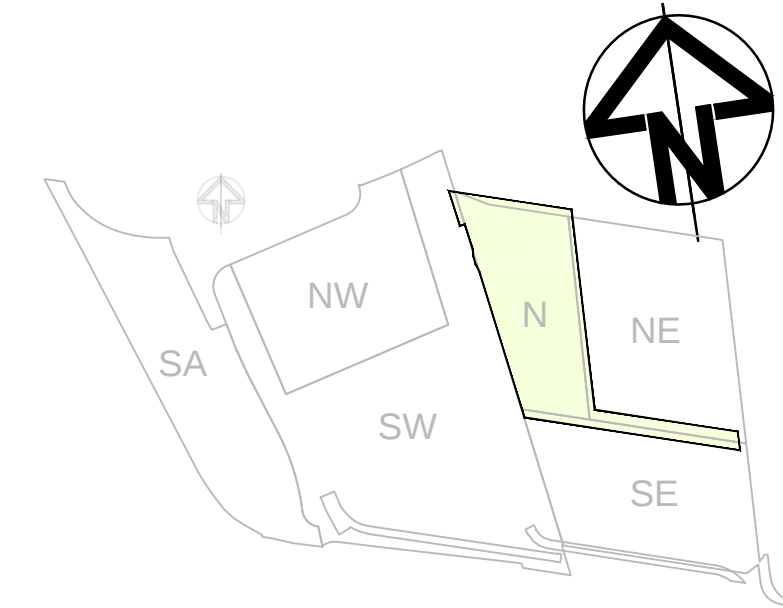
NOTE

1. BUILDING NUMBERS AS DEFINED BY SYDNEY WATER.

2. DESIGN HAS BEEN COORDINATED WITH RYGATE & Co. PARAMETER PLAN REF NO. 76921 REV B DATED 19/05/2015.

DARLING HARBOUR LIVE

REFERENCE MAP



NOTES:

1. DO NOT SCALE FROM DRAWINGS. USE WRITTEN DIMENSIONS ONLY.

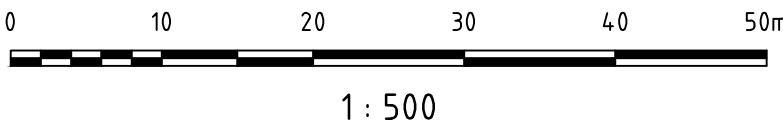
2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

3. ALL COORDINATES TO MGA. ALL LEVELS TO AHD.

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REV	DESCRIPTION	DATE
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

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PROJECT

**SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE**

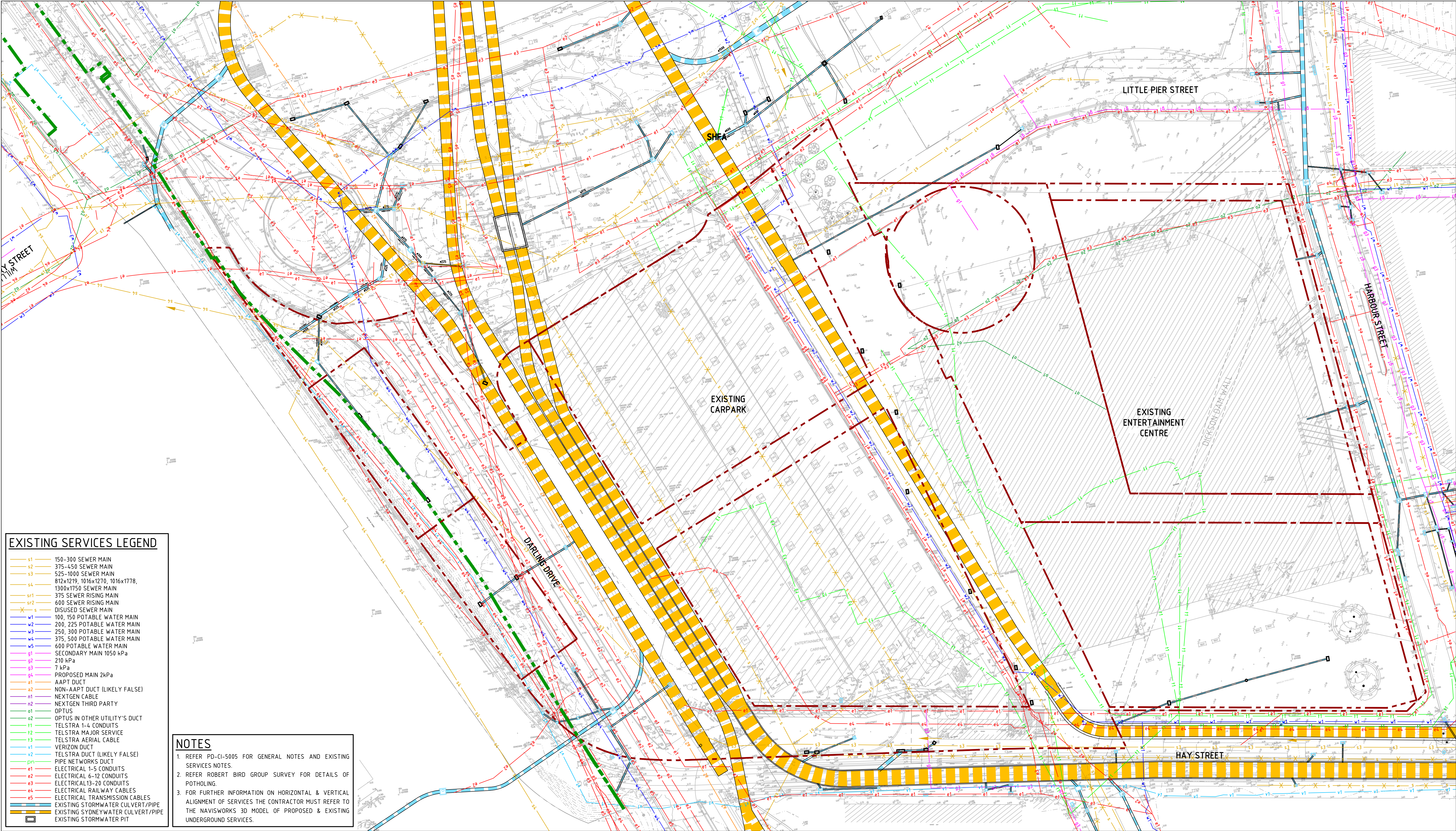
DRAWING TITLE

**GENERAL ARRANGEMENT
PLAN**

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1 : 500	LC	-	MBK	MBK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5011	02		



EXISTING SERVICES LEGEND

s1

s2

s3

s4

sr1

sr2

w1

w2

w3

w4

w5

g1

g2

g3

g4

n1

n2

o1

o2

t1

t2

t3

v1

v2

pr1

e1

e2

e3

e4

e5

150-300 SEWER MAIN

375-450 SEWER MAIN

525-1000 SEWER MAIN

812x1219, 1016x1270, 1016x1778, 1300x1750 SEWER MAIN

375 SEWER RISING MAIN

600 SEWER RISING MAIN

DISUSED SEWER MAIN

100, 150 POTABLE WATER MAIN

200, 225 POTABLE WATER MAIN

250, 300 POTABLE WATER MAIN

375, 500 POTABLE WATER MAIN

600 POTABLE WATER MAIN

SECONDARY MAIN 1050 kPa

210 kPa

7 kPa

PROPOSED MAIN 2kPa

AAPT DUCT

NON-AAPT DUCT (LIKELY FALSE)

NEXTGEN CABLE

NEXTGEN THIRD PARTY

OPTUS

OPTUS IN OTHER UTILITY'S DUCT

TELSTRA 1-4 CONDUITS

TELSTRA MAJOR SERVICE

TELSTRA AERIAL CABLE

VERIZON DUCT

TELSTRA DUCT (LIKELY FALSE)

PIPE NETWORKS DUCT

ELECTRICAL 1-5 CONDUITS

ELECTRICAL 6-12 CONDUITS

ELECTRICAL 13-20 CONDUITS

ELECTRICAL RAILWAY CABLES

ELECTRICAL TRANSMISSION CABLES

EXISTING STORMWATER CULVERT/PIPE

EXISTING SYDNEYWATER CULVERT/PIPE

EXISTING STORMWATER PIT

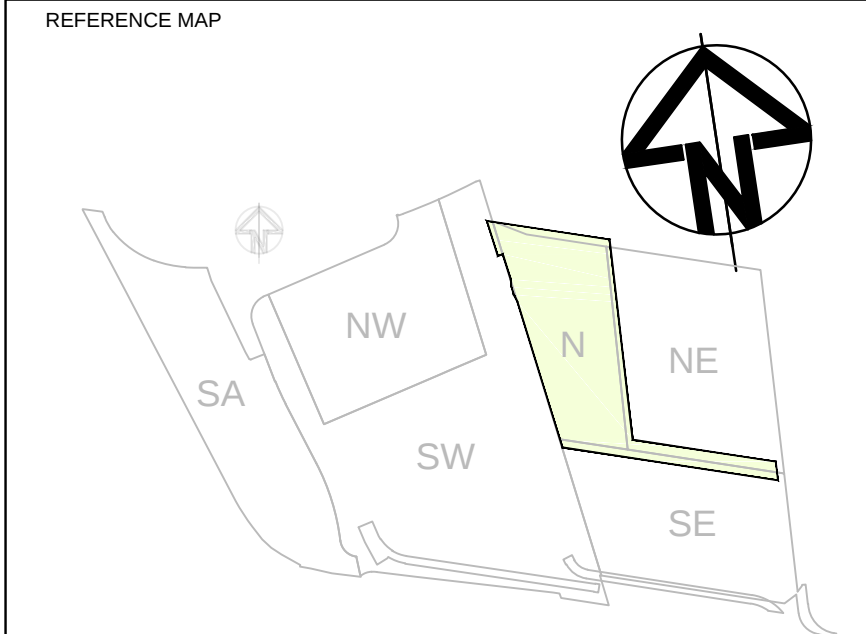
NOTES

1. REFER PD-CI-5005 FOR GENERAL NOTES AND EXISTING SERVICES NOTES.

2. REFER ROBERT BIRD GROUP SURVEY FOR DETAILS OF POTHOLING.

3. FOR FURTHER INFORMATION ON HORIZONTAL & VERTICAL ALIGNMENT OF SERVICES THE CONTRACTOR MUST REFER TO THE NAVISWORKS 3D MODEL OF PROPOSED & EXISTING UNDERGROUND SERVICES.

DARLING HARBOUR LIVE



NOTES:

1. DO NOT SCALE FROM DRAWINGS. USE WRITTEN DIMENSIONS ONLY.

2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

3. ALL COORDINATES TO MGA. ALL LEVELS TO AHD.

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01020304050m

1 : 500

REV	DESCRIPTION	DATE
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

CLIENT

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PROJECT

SICEEP - DARLING HARBOUR

DARLING SQUARE

NORTH PLOT AND THE SQUARE

DRAWING TITLE

SURVEY AND EXISTING SERVICES PLAN (DBYD)

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1

DRAWN

DESIGNED

REVIEWED

APPROVED

1 : 500

LC

-

MBK

MBK

PROJECT NUMBER

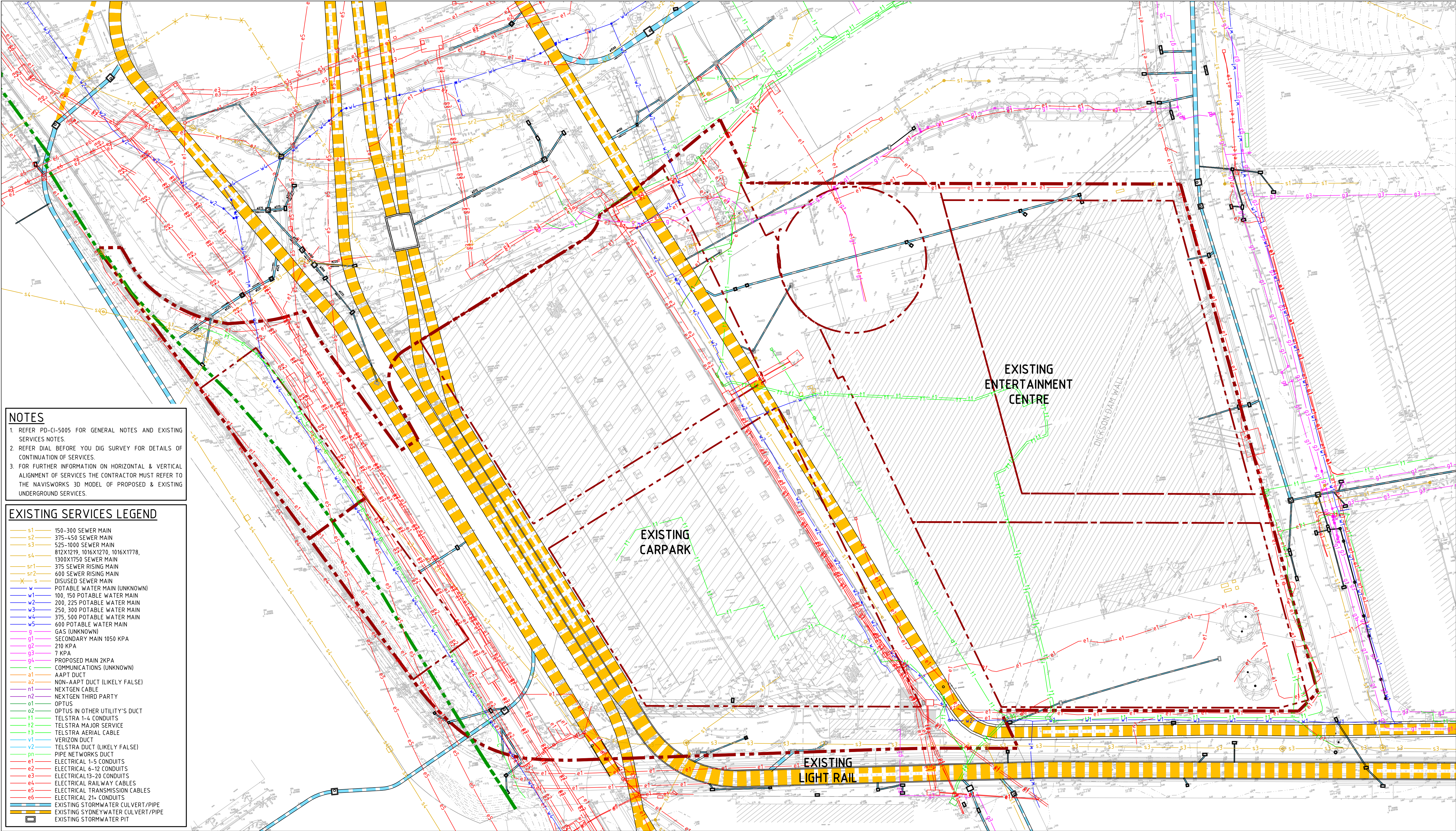
DRAWING NUMBER

REV

AA004399

PD-CI-5021

02



NOTES

1. REFER PD-CI-5005 FOR GENERAL NOTES AND EXISTING SERVICES NOTES.

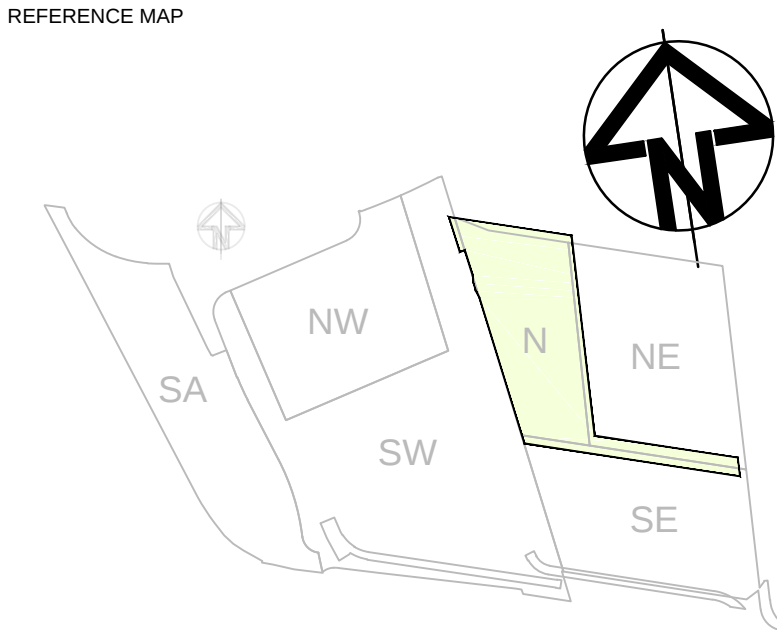
2. REFER DIAL BEFORE YOU DIG SURVEY FOR DETAILS OF CONTINUATION OF SERVICES.

3. FOR FURTHER INFORMATION ON HORIZONTAL & VERTICAL ALIGNMENT OF SERVICES THE CONTRACTOR MUST REFER TO THE NAVISWORKS 3D MODEL OF PROPOSED & EXISTING UNDERGROUND SERVICES.

EXISTING SERVICES LEGEND

s1	150-300 SEWER MAIN
s2	375-450 SEWER MAIN
s3	525-1000 SEWER MAIN
s4	812X1219, 1016X1219, 1016X1778, 1300X1750 SEWER MAIN
sr1	375 SEWER RISING MAIN
sr2	600 SEWER RISING MAIN
s	DISUSED SEWER MAIN
w	POTABLE WATER MAIN (UNKNOWN)
w1	100, 150 POTABLE WATER MAIN
w2	200, 225 POTABLE WATER MAIN
w3	250, 300 POTABLE WATER MAIN
w4	375, 500 POTABLE WATER MAIN
w5	600 POTABLE WATER MAIN
g	GAS (UNKNOWN)
g1	SECONDARY MAIN 1050 KPA
g2	210 KPA
g3	7 KPA
g4	PROPOSED MAIN 2KPA
c	COMMUNICATIONS (UNKNOWN)
a1	AAPT DUCT
a2	NON-AAPT DUCT (LIKELY FALSE)
n1	NEXTGEN CABLE
n2	NEXTGEN THIRD PARTY
o1	OPTUS
o2	OPTUS IN OTHER UTILITY'S DUCT
t1	TELSTRA 1-4 CONDUITS
t2	TELSTRA MAJOR SERVICE
t3	TELSTRA AERIAL CABLE
v1	VERIZON DUCT
v2	TELSTRA DUCT (LIKELY FALSE)
pn	PIPE NETWORKS DUCT
e1	ELECTRICAL 1-5 CONDUITS
e2	ELECTRICAL 6-12 CONDUITS
e3	ELECTRICAL 13-20 CONDUITS
e4	ELECTRICAL RAILWAY CABLES
e5	ELECTRICAL TRANSMISSION CABLES
e6	ELECTRICAL 21+ CONDUITS
sw	EXISTING STORMWATER CULVERT/PIPE
sp	EXISTING SYDNEY WATER CULVERT/PIPE
pit	EXISTING STORMWATER PIT

DARLING HARBOUR LIVE



NOTES:

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0 10 20 30 40 50m

1 : 500

REV	DESCRIPTION	DATE
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

CLIENT

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KENGO KUMA & ASSOCIATES

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PROJECT

**SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE**

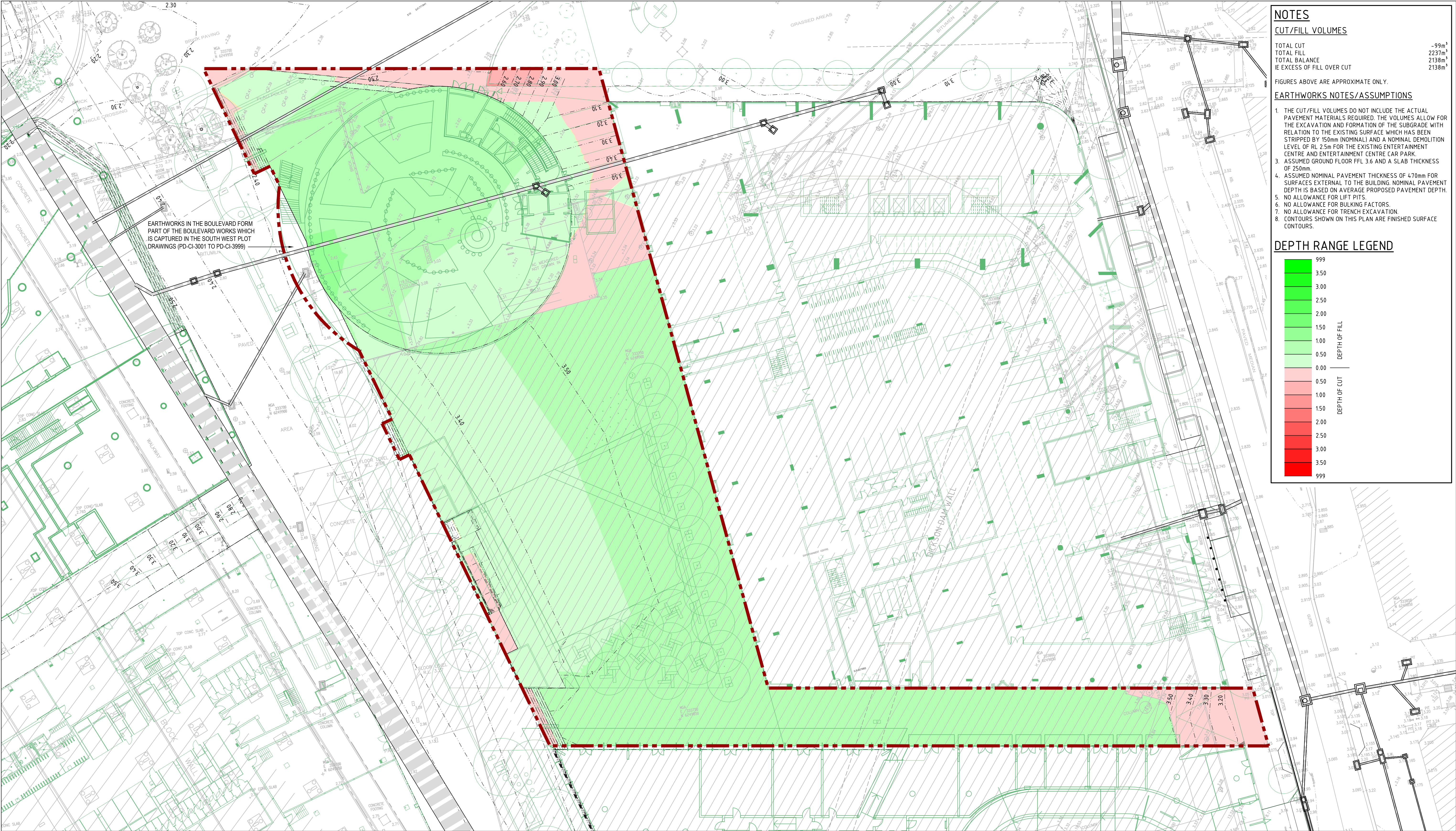
DRAWING TITLE

**SURVEY AND EXISTING
SERVICES PLAN
(ROBERT BIRD GROUP)**

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1 : 500	LC	-	MBK	MBK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5022	02		



NOTES

CUT/FILL VOLUMES

TOTAL CUT	-99m ³
TOTAL FILL	2237m ³
TOTAL BALANCE	2138m ³
IE EXCESS OF FILL OVER CUT	

FIGURES ABOVE ARE APPROXIMATE ONLY.

EARTHWORKS NOTES/ASSUMPTIONS

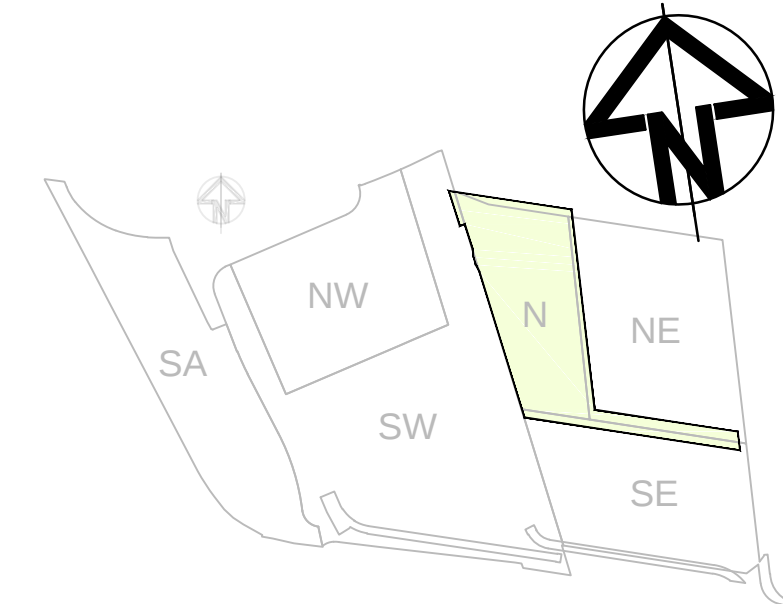
- THE CUT/FILL VOLUMES DO NOT INCLUDE THE ACTUAL PAVEMENT MATERIALS REQUIRED. THE VOLUMES ALLOW FOR THE EXCAVATION AND FORMATION OF THE SUBGRADE WITH RELATION TO THE EXISTING SURFACE WHICH HAS BEEN STRIPPED BY 150mm (NOMINAL) AND A NOMINAL DEMOLITION LEVEL OF RL 2.5m FOR THE EXISTING ENTERTAINMENT CENTRE AND ENTERTAINMENT CENTRE CAR PARK.
- ASSUMED GROUND FLOOR FFL 3.6 AND A SLAB THICKNESS OF 250mm.
- ASSUMED NOMINAL PAVEMENT THICKNESS OF 470mm FOR SURFACES EXTERNAL TO THE BUILDING. NOMINAL PAVEMENT DEPTH IS BASED ON AVERAGE PROPOSED PAVEMENT DEPTH.
- NO ALLOWANCE FOR LIFT PITS.
- NO ALLOWANCE FOR BULKING FACTORS.
- NO ALLOWANCE FOR TRENCH EXCAVATION.
- CONTOURS SHOWN ON THIS PLAN ARE FINISHED SURFACE CONTOURS.

DEPTH RANGE LEGEND

999	DEPTH OF FILL	999	DEPTH OF CUT
3.50			
3.00			
2.50			
2.00			
1.50			
1.00			
0.50			
0.00			
0.50			
1.00			
1.50			
2.00			
2.50			
3.00			
3.50			
999			

DARLING HARBOUR LIVE

REFERENCE MAP



NOTES:

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0 5 10 15 20 25m

1 : 250

REV	DESCRIPTION	DATE
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	ORIGINAL UPLOAD INVALID AND REPLACED	05/06/2015

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PROJECT

**SICEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE**

DRAWING TITLE

**BULK EARTHWORKS
PLAN**

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1 : 250	LC	LC	KM	MBK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5151	02		