WALKER ST OFFSET CROWN REMOVED
WALKER STREET LEVELS LOWERED
WALKER STREET CARRIAGEWAY WIDENED
ISSUED FOR CONSTRUCTION
COVER SLAB ADDED OVER GAS MAIN

## DRAWING LIST

<u>N</u>0.

Description

Intersections
C155 Intersec
C156 Intersec
C157 Intersec
C158 Intersec Stormwater
C165 Stormw
C167 Stormw
C171 Stormw
C175 Stormw
C176 Stormw C113 C116 C119 C123 C124 C139 C143a C143a C143b C143c C147 C147 Drg N C100 C102 Sedimentation And Erosion Control
C240 Sedimentation And Erosion Control Notes
C241 Sedimentation And Erosion Control Plan Pavement
C198 Pavement Layout Plan
C201 Pavement Layout Plan
C204 Pavement Layout Plan Signage and Linemarking
C183 Signage And Linemarking Layout
C186 Signage And Linemarking Layout
C189 Signage And Linemarking Layout Roadworks And Stormwater Drainage Plan —
Roadworks And Stormwater Drainage Plan —
Roadworks And Stormwater Drainage Plan —
Roadworks Longitudinal Sections — Sheet 1
Roadworks Longitudinal Sections — Sheet 2
Timbrol Avenue Cross Sections — Sheet 14
Roadworks Cross Sections — Sheet 1
Roadworks Cross Sections — Sheet 2
Roadworks Cross Sections — Sheet 3
Roadworks Details — Sheet 1
Roadworks Details — Sheet 2 Intersection Intersection Intersection Intersection Stormwater Drainage Longitudinal Sections — Sheet Stormwater Drainage Longitudinal Sections — Sheet Stormwater Drainage Longitudinal Sections — Sheet Stormwater Details Pit and Subsoil Drain and Misce Stormwater Details Pit Schedule — Walker Street Cover sheet Typical Road Cross Sections Plan And Kerb Return I SheetSheet 1 1 1  $1 \quad 1 \quad 1 \quad 1$ Nina Gray Walker St. Walker St. Walker St. **4 2 4** And Walker St Timbrol Ave. Peake St. Gauthorpe St.

8

**GENERAL** 

STATE SURVEY MARK:- 1 SSM 112931 E323017.983 N6255374.664

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER/SUPERINTENDENT.

YINIMUM 98% MODIFIED DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.

ASPHALTIC CONCRETE SHALL CONFORM TO THE SPECIFICATION AND RELEVANT AUSTRALIAN & RTA STANDARDS.

ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLE SAND OR AN APPROVED GRANULAR MATERIAL AND COMPACTED TO MINIMUM MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.

LANDSCAPED AREAS:	UNDER ROADS AND CARPARKS:	UNDER BUILDING SLABS ON GROUND:	LOCATION
95%	98%	98%	STANDARD DRY DENSITY (AS 1289 5.1.1.)

PROOF ROLLING SHALL BE IN ACCORDANCE WITH AS3798 CLAUSE 5.4. PROOF ROLLIN SHALL BE BY A SMOOTH STEEL DRUM ROLLER WITHOUT VIBRATION HAVING A MINIMUM APPLIED LOAD INTENSITY OF 4 TONNES PER M.WIDTH OF THE DRUM BEING CONSIDERED OR OTHER ROLLING DEVICE AS APPROVED BY THE SUPERINTENDENT.

## KERBING NOTES

- ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 20MPa
- $\overline{\omega}$ EXPANSION JOINTS (EJ) TO BE FORMED FROM 10MM COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT 12M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
- 3ROOMED FINISHED TO ALL RAMPED AND VEHICULAR CROSSINGS, ALL OTHER )R DISH DRAINS TO BE STEEL FLOAT FINISHED, U.N.O RERBING €

EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

# **GENERAL NOTES**

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED SV1

ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.

ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE BUILDING CODE OF AUSTRALIA AS AMENDED AND THE APPROPRIATE AND CURRENT AUSTRALIAN STANDARDS.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE CIVIL DRAWINGS.
ALL DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED ON SITE BY
BUILDER PRIOR TO CONSTRUCTION OR FABRICATION.

SITEWORKS NOTES

STATE SURVEY MARK:- CNR WALKER AND GAUTHORPE STREET ORIGIN OF LEVELS: MGA (Map Grid Australia)
DATUM OF LEVELS: AHD (Australian Height Datum)

MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.

COMPACT SUBGRADE UNDER PAVEMENTS TO MINIMUM 98% STANDARD

MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.

COMPACT GRANULAR BASECOURSE UNDER PAVEMENT TO MINIMUM 98% MODIFIED

MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.

ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.

And Details

.ED WITH 1 98%

## BULK EARTHWORKS

ALL BULK EARTHWORKS SETOUT FROM CO-ORDINATES U.N.O COMPACT IMPORTED FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LANDSCAPED AREAS:	UNDER ROADS AND CARPARKS:	UNDER BUILDING SLABS ON GROUND:	LOCATION
95%	98%	98%	STANDARD DRY DENSITY (AS 1289 5.1.1.)

ROLLING

- ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 75mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.

- VEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES XCEPT FOR INTEGRAL KERBS WHERE WEAKENED PLANE JOINTS ARE TO MATCH "HE JOINT LOCATIONS IN SLABS.
- IN THE REPLACEMENT OF KERBS:
  EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm FROM LIP
  OF GUTTER. UPON COMPLETION OF NEW KERBS, NEW BASECOURSE
  AND SURFACE IS TO BE LAID 900mm WIDE.

SERVICES

SV2

SV3

STORMWATER DRAINAGE NOTES

STORMWATER DESIGN CRITERIA:

(A) AVERAGE RECURRENCE INTERVAL:

1:00 YEARS FOR ROOF DRAINAGE TO FIRST EXTERNAL PIT

1:20 YEARS FOR PAVED AND LANDSCAPED AREAS

(B) RAINFALL INTENSITIES:

TIME OF CONCENTRATION: 5 MINUTES

1:00 YEARS=

1:20 YEARS:

C100= 1.0

ROOF AREAS:

C100= 1.0

GRATES AND COVERS SHALL CONFORM WITH AS 3996-1992

CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL OF THE ENGINEER.

ALL PITS DEEPER THAN 1.2m SHALL HAVE STEP IRONS ATTACHED.

ALL GRATES TO BE GALVANISED CLASS 'D' WELDLOCK TYPE GRATE OR EQUIVALENT 'U.N.O'. 'CYCLE SAFE' ALL DRAINAGE LINES SHALL BE LAID IN A HS3 TYPE TRENCH.

DR12

INSTALL SUBSOIL DRAINAGE PIPES TO ALL INLET STORMWATER PIPES AT EACH PIT FOR A DISTANCE OF 3m UPSTREAM OR AS SHOWN ON THESE DRAWINGS.

LOCATION OF PITS AND PIPES FOR BUILDING DRAINAGE CONNECTIONS TO BE CONFIRMED ON SITE PRIOR TO DRAINAGE CONSTRUCTION.

ALL PITS DEEPER THAN 6m SHALL HAVE A HEAVY DUTY WELDLOCK LANDING 4m FROM THE TOP.

## JOINTING NOTES

- PEDESTRIAN PAVEMENT JOINTING

  J1 ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS (U.N.O):

  J2 BUTT JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF
  CURVES AND ELSEWHERE AT MAX 6.0m CENTRES.
- WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX 1.5 x WIDTH OF THE PAVEMENT. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT JOINTS

PEDESTRIAN PAVEMENT JOINTS AS FOLLOWS <u>\_WPJ</u> \_WPJ\_ WPJ 6.0m MAX WP.J 1.5 × W

THE LOCATIONS OF SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITY'S OWN USE AND MAY NOT NECESSARILY BE BE UPDATED OR ACCURATE.

THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.

ON THESE DRAWINGS SHOW MORE THAN THE PRESENCE OR ABSENCE OF SERVICES, AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

V4 THE CONTRACTOR SHALL:

(A) CONDUCT A SERVICES SEARCH WITH ALL UTILITY SERVICES AUTHORITIES TO DETERMINE PLAN LOCATIONS OF ANY SERVICES IN THE VICINITY OF THE WORK.

(B) UNDERTAKE HAND EXCAVATION TO DETERMINE THE EXACT POSITION OF SERVICE WITHIN THE LIMIT OF THE WORKS SHOWN ON PLAN.

(C) ARRANGE RELOCATION OR ADJUSTMENT OF SERVICE TO THE APPROVAL OF THE RELEVANT AUTHORITY.

ROOF AREAS:

Coo = 1.0

ROADS AND PAVED AREAS:

Coo = 0.9

LANDSCAPED AREAS:

PIPES 375-600 DIA AND LARGER TO BE REINFORCED CONCRETE CLASS "3"

PIPES 675 AND LARGER TO BE REINFORCED CONCRETE CLASS "2"

APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O.

PIPES UP TO 300 DIA SHALL BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS.

ROUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED SUBJECT TO APPROVAL.

PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL.

ROLLARGERS, CONNECTIONS AND JUNCTIONS TO BE PRECAST FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED UPVC SEWER GRADE PIPE IS TO BE USED.

JMBER OF BARS IN GROUP

FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL: THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.

25 MIN

NOTE:
THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE CANADA BAY COUNCIL CONSTRUCTION SPECIFICATION.
IN ALL CASES, THE CONSTRUCTION SPECIFICATION WILL TAKE PRECEDENCE OVER THESE NOTES.

CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

EXISTING +18.48

3

SURFACE LEVEL CONTOUR KERB LINE

BATTER

RETAINING WALL

LEGEND

CONCRETE QUALITY
ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

CATION	AS 3600 F.C MPA AT 28 DAYS	SPECIFIED SLUMP
RVICE PITS, OTPATHS & RBS	20	80
DIAN INFILLS	32	80
ORMWATER PITS	40	80
DECHUBE DVIN	7.0	80

STORMWATER DRAINAGE LINE
TELECOM LINE
GAS LINE
WATER MAIN
SEWER LINE
ELECTRICAL LINE
RISING MAIN
SEWER MANHOLE

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL - PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

O PP

POWER POLE

EASEMENT

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Ĭ,

NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED WRITING BY HYDER CONSULTING. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.

ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.

PROPOSED BE 8.35 P22.20

FINISHED BULK EARTHWORKS LEVEL FINISHED PAVEMENT LEVEL PROPOSED CONTOUR

BOUNDARY TO BE EXTINGUISHED

TREE TO BE REMOVED

TREE TO REMAIN

**—** 22.

K&G

6

KERB ONLY

KERB AND GUTTER

1. Do not scale off this drawing. Use dimensions & architectural drawings only
2. Drawings to be read in conjunction with specification.
3. Levels are indicative only and are to be checked
prior to commencement of any works
4. Authorities mains and/or existing services are to be located and checked
prior to commencement of any works
5. The information on this drawing is to be used for Walker Street works only.
Refer to Hyder Consulting Drawings for internal site infrastructure works.

FLUSH KERB

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.T.A. SPECIFICATION R83.

REINFORCEMENT SYMBOLS:

N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304 BAR GRADE AND TYPE

DISH DRAIN

 $\overrightarrow{\mathbb{B}}$ 

2B

 $\overrightarrow{\triangleright}$ 

NOMINAL BAR SIZE IN mm 17 N 20 250 SPACING IN mm

20\1

STORMWATER PIT REFERENCE NUMBER

3B

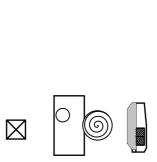
 $_{\mathsf{A}}^{\mathsf{B}}$ 

2 A

RAILWAY LIN

STORMWATER PIT WITH GRATE AND LINE

LAP TWO WIRES



KERB INLET PIT

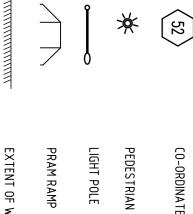
GROSS POLLUTANT TRAP (CDS UNIT) JUNCTION PIT WITH INFILL

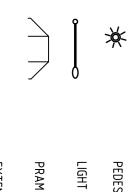
STORMWATER LINE WITH CAP CONCRETE HEADWALL SEWER PIT

 $\bigcirc$ 

. . . . O FP **⊙** ≅ GRASS CATCH DRAIN SUBSOIL DRAINAGE LINE (100 DIA) FLUSHING POINT INTERMEDIATE RISER GRATED DRAIN

PROPOSED BATTER





•		$\rightarrow$	j	*
	EXTENT OF W	PRAM RAMP	LIGHT POLE	PEDESTRIAN

DATE DRAWN
12/12/07
PROJECT NUMBER
3191

C100-V7

7

EXTENT OF WORKS	PRAM RAMP	LIGHT POLE	PEDESTRIAN LIGHT POLE	CO-ORDINATE SETOUT POINT	

SITE 1A – RHOD	PROJECT WA'	1.	<u>Billbergia D</u>
SITE 1A – 40 WALKER STREET RHODES NSW 2138	THODES STAGE 1A	BILLBERGIA GROUP  LEVEL 3, No.1 BAY DRIVE, MEADOWBANK NSW 2114  TELEPHONE (02) 8878 6900 FACSIMILE (02) 9808 5989	Billbergia Developments Pty Ltd

RHODES STAGE 1A
SITE 1A - 40 WALKER STREET
RHODES NSW 2138
DRAWING TITLE
COVER SHEET
CIVIL WORKS