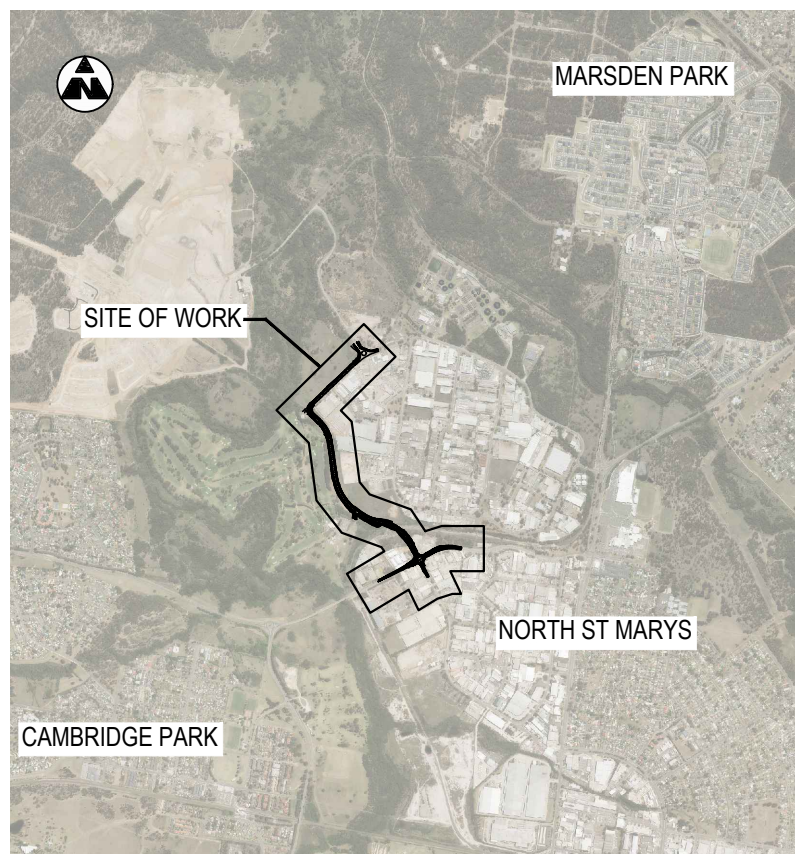


PENRITH CITY COUNCIL LINKS ROAD EXTENSION

UPGRADE THE EXISTING LINKS ROAD AND EXTENSION TO CHRISTIE STREET
LINKS ROAD CH 0 TO CH 1400
DUNHEVED PRECINCT TO CHRISTIE STREET, ST MARYS

CIVIL DESIGN DEVELOPMENT APPLICATION APPROVAL



LOCALITY PLAN
NOT TO SCALE

CODE	NAME
GE	GENERAL
RD	ROAD ALIGNMENT AND DETAIL
SM	STORMWATER MANAGEMENT
EV	SEDIMENT AND EROSION CONTROL
PV	PAVEMENT
PW	PROPERTY ADJUSTMENT WORKS
UT	UTILITIES

NOT FOR CONSTRUCTION

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150mm ON A3 SIZE ORIGINAL



DOCUMENT NUMBER / NAME PS111235-GE-DRG-00001		LINEAR REFERENCING 0000177.0070.A1 : 0000177.0090, C1.0.666		PLOT DATE / TIME 22 November 2018 - 11:19:59 AM		PLOT BY Thrower,		CLIENT 		PENRITH CITY COUNCIL (PCC) LINKS ROAD LINKS ROAD EXTENSION FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET	
PREPARED BY 		DESIGNED SIGNED NAME JACINTA HALIM TITLE CIVIL ENGINEER DATE 22.11.18		REVIEWED SIGNED NAME ALISTAIR KELLY TITLE CIVIL ENGINEER DATE 22.11.18		VERIFIED SIGNED NAME JAMES WALLIS TITLE PROJECT MANAGER DATE 22.11.18		RMS PROJECT MANAGER NAME TBC TITLE TBC VALIDATION AND ACCEPTANCE OF THESE DRAWINGS AND THE DESIGN SHOWN THEREON IS TO BE CARRIED OUT UNDER SEPARATE PROCESS		RMS PROJECT No. TBC	
Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com		RMS REGISTRATION No. TBC		PREPARED FOR TBC		DESIGN PROJECT No. PS111235		PART A3		ISSUE STATUS DEVELOPMENT APPLICATION	
						EDMS No.		SHEET No. GE-00001		ISSUE 1	

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 150mm ON A3 SIZE ORIGINAL

GENERAL			
SHEET No.	TITLE		
PS111235-GE-DRG-00001	GENERAL	DRAWING COVER SHEET	1 OF 1
PS111235-GE-DRG-00005	GENERAL	DRAWING INDEX	1 OF 2
PS111235-GE-DRG-00006	GENERAL	DRAWING INDEX	2 OF 2
PS111235-GE-DRG-00010	GENERAL	GENERAL NOTES	1 OF 1
ROAD ALIGNMENT			
SHEET No.	TITLE		
PS111235-RD-DRG-00021	ROAD ALIGNMENT AND DETAIL	TYPICAL CROSS SECTIONS	1 OF 1
PS111235-RD-DRG-00101	ROAD ALIGNMENT AND DETAIL	GENERAL ARRANGEMENT PLAN	1 OF 8
PS111235-RD-DRG-00102	ROAD ALIGNMENT AND DETAIL	GENERAL ARRANGEMENT PLAN	2 OF 8
PS111235-RD-DRG-00103	ROAD ALIGNMENT AND DETAIL	GENERAL ARRANGEMENT PLAN	3 OF 8
PS111235-RD-DRG-00104	ROAD ALIGNMENT AND DETAIL	GENERAL ARRANGEMENT PLAN	4 OF 8
PS111235-RD-DRG-00105	ROAD ALIGNMENT AND DETAIL	GENERAL ARRANGEMENT PLAN	5 OF 8
PS111235-RD-DRG-00106	ROAD ALIGNMENT AND DETAIL	GENERAL ARRANGEMENT PLAN	6 OF 8
PS111235-RD-DRG-00107	ROAD ALIGNMENT AND DETAIL	GENERAL ARRANGEMENT PLAN	7 OF 8
PS111235-RD-DRG-00108	ROAD ALIGNMENT AND DETAIL	GENERAL ARRANGEMENT PLAN	8 OF 8
PS111235-RD-DRG-00201	ROAD ALIGNMENT AND DETAIL	LONGITUDINAL SECTION MC10	1 OF 6
PS111235-RD-DRG-00202	ROAD ALIGNMENT AND DETAIL	LONGITUDINAL SECTION MC10	2 OF 6
PS111235-RD-DRG-00203	ROAD ALIGNMENT AND DETAIL	LONGITUDINAL SECTION MC10	3 OF 6
PS111235-RD-DRG-00204	ROAD ALIGNMENT AND DETAIL	LONGITUDINAL SECTION MC10	4 OF 6
PS111235-RD-DRG-00205	ROAD ALIGNMENT AND DETAIL	LONGITUDINAL SECTION MC10	5 OF 6
PS111235-RD-DRG-00206	ROAD ALIGNMENT AND DETAIL	LONGITUDINAL SECTION MC10	6 OF 6
PS111235-RD-DRG-00211	ROAD ALIGNMENT AND DETAIL	LONGITUDINAL SECTION MC20	1 OF 2
PS111235-RD-DRG-00212	ROAD ALIGNMENT AND DETAIL	LONGITUDINAL SECTION MC20	2 OF 2
PS111235-RD-DRG-00221	ROAD ALIGNMENT AND DETAIL	LONGITUDINAL SECTION MCA1	1 OF 1

PAVEMENT			
SHEET No.	TITLE		
PS111235-RD-DRG-00021	PAVEMENT	PAVEMENT PROFILES	1 OF 1
PS111235-RD-DRG-00022	PAVEMENT	PAVEMENT DETAILS	1 OF 1
PS111235-PV-DRG-00101	PAVEMENT	GENERAL ARRANGEMENT PLAN	1 OF 8
PS111235-PV-DRG-00102	PAVEMENT	GENERAL ARRANGEMENT PLAN	2 OF 8
PS111235-PV-DRG-00103	PAVEMENT	GENERAL ARRANGEMENT PLAN	3 OF 8
PS111235-PV-DRG-00104	PAVEMENT	GENERAL ARRANGEMENT PLAN	4 OF 8
PS111235-PV-DRG-00105	PAVEMENT	GENERAL ARRANGEMENT PLAN	5 OF 8
PS111235-PV-DRG-00106	PAVEMENT	GENERAL ARRANGEMENT PLAN	6 OF 8
PS111235-PV-DRG-00107	PAVEMENT	GENERAL ARRANGEMENT PLAN	7 OF 8
PS111235-PV-DRG-00108	PAVEMENT	GENERAL ARRANGEMENT PLAN	8 OF 8
STORMWATER MANAGEMENT			
SHEET No.	TITLE		
PS111235-SM-DRG-00101	STORMWATER MANAGEMENT	GENERAL ARRANGEMENT PLAN	1 OF 8
PS111235-SM-DRG-00102	STORMWATER MANAGEMENT	GENERAL ARRANGEMENT PLAN	2 OF 8
PS111235-SM-DRG-00103	STORMWATER MANAGEMENT	GENERAL ARRANGEMENT PLAN	3 OF 8
PS111235-SM-DRG-00104	STORMWATER MANAGEMENT	GENERAL ARRANGEMENT PLAN	4 OF 8
PS111235-SM-DRG-00105	STORMWATER MANAGEMENT	GENERAL ARRANGEMENT PLAN	5 OF 8
PS111235-SM-DRG-00106	STORMWATER MANAGEMENT	GENERAL ARRANGEMENT PLAN	6 OF 8
PS111235-SM-DRG-00107	STORMWATER MANAGEMENT	GENERAL ARRANGEMENT PLAN	7 OF 8
PS111235-SM-DRG-00108	STORMWATER MANAGEMENT	GENERAL ARRANGEMENT PLAN	8 OF 8

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DOCUMENT NUMBER / NAME PS111235-GE-DRG-00005		DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING		PLOT DATE / TIME 22 November 2018 - 8:54:45 AM	PLOT BY Thrower, Ryan	CLIENT 	PENRITH CITY COUNCIL (PCC) LINKS ROAD LINKS ROAD EXTENSION FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET GENERAL DRAWING INDEX SHEET No. 1 OF 2		A3							
EXTERNAL REFERENCE FILES	REV 1	DATE 22.11.18	AMENDMENT / REVISION DESCRIPTION ISSUE FOR DEVELOPMENT APPLICATION APPROVAL	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY 		TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MNGR PROJECT MNGR	NAME RYAN THROWER CLAUDIO BIDART JACINTA HALIM ANURAG RAJPUL ALISTAIR KELLY JAMES WALLIS	DATE 22.11.18 22.11.18 22.11.18 22.11.18 22.11.18 22.11.18	PREPARED FOR TBC	RMS REGISTRATION No. TBC	ISSUE STATUS DEVELOPMENT APPLICATION	EDMS No.	SHEET No. GE-00005	ISSUE 1
				CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM A.H.D.	Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com											

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 150mm ON A3 SIZE ORIGINAL



PROPERTY WORKS			
SHEET No.	TITLE		
PS11235-PW-DRG-00011	PROPERTY WORKS	SCHEDULE AND KEY PLAN	1 OF 1
PS11235-PW-DRG-00101	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - L1/DP1132380	1 OF 1
PS11235-PW-DRG-00102	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - 1037/DP1149525	1 OF 1
PS11235-PW-DRG-00103	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - L1/DP31908	1 OF 1
PS11235-PW-DRG-00104	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - PUBLIC ROAD	1 OF 1
PS11235-PW-DRG-00105	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - L7/DP31908	1 OF 1
PS11235-PW-DRG-00106	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - L2/DP701087	1 OF 1
PS11235-PW-DRG-00107	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - L136/DP31912	1 OF 1
PS11235-PW-DRG-00108	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - L137/DP31911	1 OF 1
PS11235-PW-DRG-00109	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - L99/DP1005237	1 OF 1
PS11235-PW-DRG-00110	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - 15/DP800766	1 OF 1
PS11235-PW-DRG-00111	PROPERTY WORKS	GENERAL ARRANGEMENT PLAN - L4/DP701087	1 OF 1

UTILITIES			
SHEET No.	TITLE		
PS11235-UT-DRG-00101	UTILITIES	GENERAL ARRANGEMENT PLAN	1 OF 8
PS11235-UT-DRG-00102	UTILITIES	GENERAL ARRANGEMENT PLAN	2 OF 8
PS11235-UT-DRG-00103	UTILITIES	GENERAL ARRANGEMENT PLAN	3 OF 8
PS11235-UT-DRG-00104	UTILITIES	GENERAL ARRANGEMENT PLAN	4 OF 8
PS11235-UT-DRG-00105	UTILITIES	GENERAL ARRANGEMENT PLAN	5 OF 8
PS11235-UT-DRG-00106	UTILITIES	GENERAL ARRANGEMENT PLAN	6 OF 8
PS11235-UT-DRG-00107	UTILITIES	GENERAL ARRANGEMENT PLAN	7 OF 8
PS11235-UT-DRG-00108	UTILITIES	GENERAL ARRANGEMENT PLAN	8 OF 8

ENVIRONMENT - SEDIMENT AND EROSION CONTROL			
SHEET No.	TITLE		
PS11235-EV-DRG-00021	SEDIMENT AND EROSION CONTROL	TYPICAL DETAILS	1 OF 1
PS11235-EV-DRG-00101	SEDIMENT AND EROSION CONTROL	GENERAL ARRANGEMENT PLAN	1 OF 8
PS11235-EV-DRG-00102	SEDIMENT AND EROSION CONTROL	GENERAL ARRANGEMENT PLAN	2 OF 8
PS11235-EV-DRG-00103	SEDIMENT AND EROSION CONTROL	GENERAL ARRANGEMENT PLAN	3 OF 8
PS11235-EV-DRG-00104	SEDIMENT AND EROSION CONTROL	GENERAL ARRANGEMENT PLAN	4 OF 8
PS11235-EV-DRG-00105	SEDIMENT AND EROSION CONTROL	GENERAL ARRANGEMENT PLAN	5 OF 8
PS11235-EV-DRG-00106	SEDIMENT AND EROSION CONTROL	GENERAL ARRANGEMENT PLAN	6 OF 8
PS11235-EV-DRG-00107	SEDIMENT AND EROSION CONTROL	GENERAL ARRANGEMENT PLAN	7 OF 8
PS11235-EV-DRG-00108	SEDIMENT AND EROSION CONTROL	GENERAL ARRANGEMENT PLAN	8 OF 8

TRAFFIC SIGNALS			
SHEET No.	TITLE		
18079_VV0000	TRAFFIC SIGNALS	AT CHRISTIE STREET, LEE HOLME ROAD AND LINKS ROAD	1 OF 1

NOT FOR CONSTRUCTION

DOCUMENT NUMBER / NAME PS11235-GE-DRG-00006		DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING		PLOT DATE / TIME 22 November 2018 - 8:54:52 AM	PLOT BY Thrower, Ryan	CLIENT 	PENRITH CITY COUNCIL (PCC) LINKS ROAD LINKS ROAD EXTENSION FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET GENERAL DRAWING INDEX SHEET No. 2 OF 2	A3								
EXTERNAL REFERENCE FILES	REV 1	DATE 22.11.18	AMENDMENT / REVISION DESCRIPTION ISSUE FOR DEVELOPMENT APPLICATION APPROVAL	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY 	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MNGR PROJECT MNGR	NAME RYAN THROWER CLAUDIO BIDART JACINTA HALIM ANURAG RAJPUL ALISTAIR KELLY JAMES WALLIS	DATE 22.11.18 22.11.18 22.11.18 22.11.18 22.11.18 22.11.18	PREPARED FOR TBC	RMS REGISTRATION No. TBC	ISSUE STATUS DEVELOPMENT APPLICATION	EDMS No.	SHEET No. GE-00006	ISSUE 1	
				CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM A.H.D.	Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com											

GENERAL NOTES

- G1. ALL DIMENSIONS ARE SHOWN IN METRES UNLESS SPECIFIED OTHERWISE.
- G2. LEVELS ARE IN METRES REFERENCED TO AUSTRALIAN HEIGHT DATUM (A.H.D.).
- G3. CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA (M.G.A.).
- G4. THE DESIGN IN THESE DRAWINGS ARE BASED ON AERIAL AND GROUND TOPOGRAPHICAL SURVEY AND CADASTRAL INFORMATION RECEIVED BY OTHERS AND SHOULD BE CONSIDERED LIMITED IN COMPLETENESS, IT SHOULD BE TREATED AS INDICATIVE ONLY. ALL SURVEY AND CADASTRAL INFORMATION REQUIRES VERIFICATION BY THE CONTRACTOR PRIOR TO COMMENCING ANY WORK.
- G5. NO SURVEY, CADASTRAL OR BOUNDARY LIMITS SHOULD BE SCALED FROM THESE DRAWINGS.
- G6. DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED BY THE PRINCIPAL. WHERE THERE IS A DISCREPANCY, THIS SHALL BE RESOLVED BY THE PRINCIPAL. NOTES ON SPECIFIC DOCUMENTS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES.
- G7. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING DRAWINGS.
- G8. ALL WORKS TO BE IN ACCORDANCE WITH PENRITH CITY COUNCIL DESIGN GUIDELINES FOR ENGINEERING WORKS FOR SUBDIVISIONS AND DEVELOPMENTS, CONSTRUCTION SPECIFICATION FOR CIVIL WORKS, UNLESS NOTED OTHERWISE.

PAVEMENT AND CONCRETE

- PV1. REFER TO PAVEMENT DRAWINGS FOR PAVEMENT PLANS AND DETAILS.
- PV2. ALL CONCRETE WORKS TO BE IN ACCORDANCE WITH PENRITH CITY COUNCIL ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS.
- PV3. PROPOSED FOOTPATHS TO BE IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARD DRAWING SD1001.

PAVEMENT MARKINGS AND SIGNPOSTING

- PS1. LINE MARKING AND SIGNPOSTING SHALL BE IN ACCORDANCE WITH THE DESIGN DRAWINGS, THE RELEVANT RMS GUIDES AND STANDARDS.
- PS2. ALL SIGNS SHALL BE CLEAR OF VEGETATION AND OBSTRUCTIONS.
- PS3. EXISTING PAVEMENT MARKS CONFLICTING WITH PROPOSED LINE MARKING ARE TO BE REMOVED.
- PS4. ALL EXISTING LINEMARKING (RRPMs) AFFECTED BY THE NEW WORKS AND NOT OTHERWISE CONFLICTING WITH THE PROPOSED LINE MARKING ARE TO BE REINSTATED.
- PS5. DELINEATION PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 1742 - "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 1 - 15" AND RELEVANT ROADS AND MARITIME SPECIFICATIONS, GUIDELINES AND TECHNICAL DIRECTIONS.
- PS6. LINEMARKING AT SIGNALISED INTERSECTION TO BE AS PER TRAFFIC CONTROL SIGNALS PLAN. (TS DESIGN PACKAGE).

DRAINAGE GENERAL

- DG1. THE DOCUMENTED DRAINAGE SYSTEM IS DETAILED ONLY FOR THE PERMANENT ROAD CONFIGURATION UNLESS SPECIFIED OTHERWISE. TEMPORARY DRAINAGE DESIGN NOT CONDUCTED AS PART OF DEVELOPMENT APPLICATION.
- DG2. ANY PERMITS FOR DIVERSION WORKS REQUIRED DURING CONSTRUCTION SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION WORKS COMMENCING.
- DG3. UNSUITABLE FOUNDING MATERIAL FOR PIPES AND STRUCTURES SHALL BE TREATED IN ACCORDANCE WITH PENRITH CITY COUNCIL'S ENGINEERING CONSTRUCTION SPECIFICATION.

SEDIMENT AND EROSION CONTROL GENERAL

- SE1. THE CONTRACTOR IS TO PROVIDE MEASURES AS REQUIRED TO SUIT STAGING, WORK METHODS AND REQUIREMENTS OF PENRITH CITY COUNCIL AND THE 'BLUEBOOK' (NSW DEPT HOUSING-MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION). THE CONTRACTOR IS ALSO TO PROVIDE AND MAINTAIN EFFECTIVE DUST CONTROL MEASURES TO THE ABOVE AUTHORITIES' SATISFACTION.
- SE2. THE WORKS ARE TO BE UNDERTAKEN WITH SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH PENRITH CITY COUNCIL REQUIREMENTS.
- SE3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL REQUIRED SEDIMENT AND EROSION CONTROL MEASURES AND FOR THE MAINTENANCE AND ONGOING OPERATION OF ALL CONTROL MEASURES. ALL CONTROL FEATURES ARE TO BE REGULARLY INSPECTED TO ENSURE CORRECT OPERATION.
- SE4. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CARRIED OUT FOR THE FULL DURATION OF THE WORKS BY THE CONTRACTOR.
- SE5. NO WORKS TO BE UNDERTAKEN OUTSIDE OF ACQUISITION BOUNDARY. ANY SEDIMENT FENCES OR STRAW BALES SHOWN OUTSIDE THE BOUNDARY IS FOR CLARITY PURPOSES ONLY.

SUBSOIL GENERAL

- SB1. SUBSURFACE DRAINAGE NOT UNDERTAKEN AS PART OF DEVELOPMENT APPLICATION. IT IS THE INTENT TO DESIGN THESE IN ACCORDANCE WITH PENRITH CITY COUNCIL ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS DURING CONSTRUCTION DESIGN.

UTILITIES

- U1. UTILITIES SHOWN ON THESE DRAWINGS HAVE NOT BEEN VERIFIED AND SHOULD BE TREATED AS INDICATIVE ONLY, NOTING THAT SOME UTILITIES MAY NOT BE SHOWN. LOCATING THE SERVICES AND CONTACTING THE RELEVANT SERVICE AUTHORITIES FOR EXACT LOCATIONS, DIAMETER/SIZE AND TYPE PRIOR TO COMMENCEMENT OF WORKS IS THE CONTRACTORS RESPONSIBILITY.
- U2. LOCATION AND LEVEL OF ALL EXISTING SERVICES CROSSING PROPOSED DRAINAGE MUST BE CONFIRMED PRIOR TO CONSTRUCTION.
- U3. IN ORDER TO AVOID DAMAGE TO THE SERVICES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATING THE WORKS ADJACENT TO ANY SERVICES WITH THE RELEVANT UTILITY AUTHORITY IN ACCORDANCE WITH THE AUTHORITY REQUIREMENTS. REFER TO RMS G7 SPECIFICATION.
- U4. UTILITY DRAWINGS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH THE UTILITY SERVICES STRATEGY REPORT.
- U5. ABANDONED UTILITIES DUE TO SERVICE RELOCATION ARE ASSUMED TO BE GROUT FILLED AND NOT COMPLETELY REMOVED BY THE UTILITY INSTALLATION CONTRACTOR.
- U6. EACH DRAWING IN THE UTILITY SET SHOULD NOT BE READ IN ISOLATION FROM THE OTHER SERVICE DRAWINGS IN THE SET.
- U7. ALL NECESSARY AUTHORITIES SHOULD BE CONTACTED DURING DETAILED DESIGN TO VERIFY THE SIZE, TYPE, LOCATION AND LEVEL OF EXISTING UTILITIES.

UTILITY DATA ORIGINS:

- U8. WSP HAVE COMPILED A 3D MODEL OF THE EXISTING UTILITIES DATA SUPPLIED FROM THE CLIENT. WHERE Z VALUES WERE NOT PRESENT OR THERE WERE INCONSISTENCIES IN THE SURVEY, STANDARD VALUES FROM THE STREETS OPENING CONFERENCE GUIDELINES WERE ASSUMED.

THE MODEL APPROACH AS FOLLOWS:

- U9. SURVEY DATA PROVIDED HAS BEEN INPUT IN THE MODEL AND UTILITY STRINGS WERE "PIPED" TO SHOW SIZE.
- U10. INFORMATION MISSING FROM THE SURVEY THAT WAS PRESENT ON THE DBYD PLANS WAS INPUT INTO THE MODEL AS QUALITY LEVEL D INFORMATION.
- U11. ALL ASSETS WERE GIVEN STRING AND ID NAMES.
- U12. A VISUAL REVIEW OF EXISTING UTILITIES WAS CONDUCTED TO IDENTIFY CLASHES WITH CONCEPT ROAD DESIGN AND EARTHWORKS. THESE UTILITIES WERE IDENTIFIED AS BEING IMPACTED AND HAVE BEEN LABELLED ON THE COMBINED UTILITY PLANS WITH THEIR PROPOSED TREATMENT.

LIGHTING

- L1. LINKS ROAD LIGHTING HAS BEEN DESIGNED TO V3 CATEGORY.
- L2. SHARED PATH LIGHTING HAS BEEN DESIGNED TO P4 CATEGORY.
- L3. LUMINAIRE TO BE SYLVANIA ROADSTER WITH WATTAGE RANGING FROM 250W-400W. POLE MOUNTED LUMINAIRE TO HAVE IP66 RATING, RANGE HEIGHT 11.5m AND REACHING ARM 4.5m.
- L4. MAINTENANCE FACTOR HAS BEEN DESIGNED IN ACCORDANCE WITH AS1158.1.1.

TRAFFIC SIGNALS

- TS1. TRAFFIC SIGNALS PLAN SHOW THE ULTIMATE CONFIGURATION OF THE INTERSECTION UPGRADE, i.e FOOTPATHS.

ABBREVIATIONS

AC	DENSE GRADED ASPHALT
AHD	AUSTRALIAN HEIGHT DATUM
CBR	CALIFORNIA BEARING RATIO
DBYD	DIAL BEFORE YOU DIG
DGB	DENSE GRANULAR BASE
DGS	DENSE GRANULAR SUBBASE
MGA	MAP GRID OF AUSTRALIA
RMS	ROADS AND MARITIME SERVICES
SMZ	SELECTED MATERIAL ZONE
UNO	UNLESS NOTED OTHERWISE

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150mm ON A3 SIZE ORIGINAL

NOT FOR CONSTRUCTION

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EXTERNAL REFERENCE FILES	REV 1	DATE 22.11.18	AMENDMENT / REVISION DESCRIPTION ISSUE FOR DEVELOPMENT APPLICATION APPROVAL	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY 		TITLE	NAME	DATE
									DRAWN	RYAN THROWER	22.11.18
									DRG CHECK	CLAUDIO BIDART	22.11.18
									DESIGN	JACINTA HALIM	22.11.18
									DESIGN CHECK	ANURAG RAJPUL	22.11.18
									DESIGN MNGR	ALISTAIR KELLY	22.11.18
									PROJECT MNGR	JAMES WALLIS	22.11.18
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM A.H.D.		Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com		PREPARED FOR TBC		RMS REGISTRATION No. TBC	EDMS No.	SHEET No. GE-00010	ISSUE 1