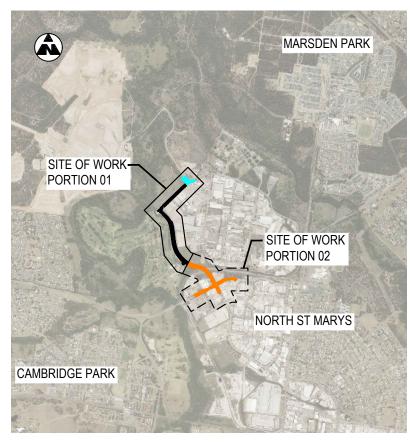
PENRITH CITY COUNCIL

LINKS ROAD EXTENSION

UPGRADE THE EXISTING LINKS ROAD AND EXTENSION TO CHRISTIE STREET DUNHEVED PRECINCT TO CHRISTIE STREET, ST MARYS LINKS ROAD CH 0 TO CH 1020 - PORTIÓN 01

CIVIL DESIGN **DEVELOPMENT APPLICATION APPROVAL**



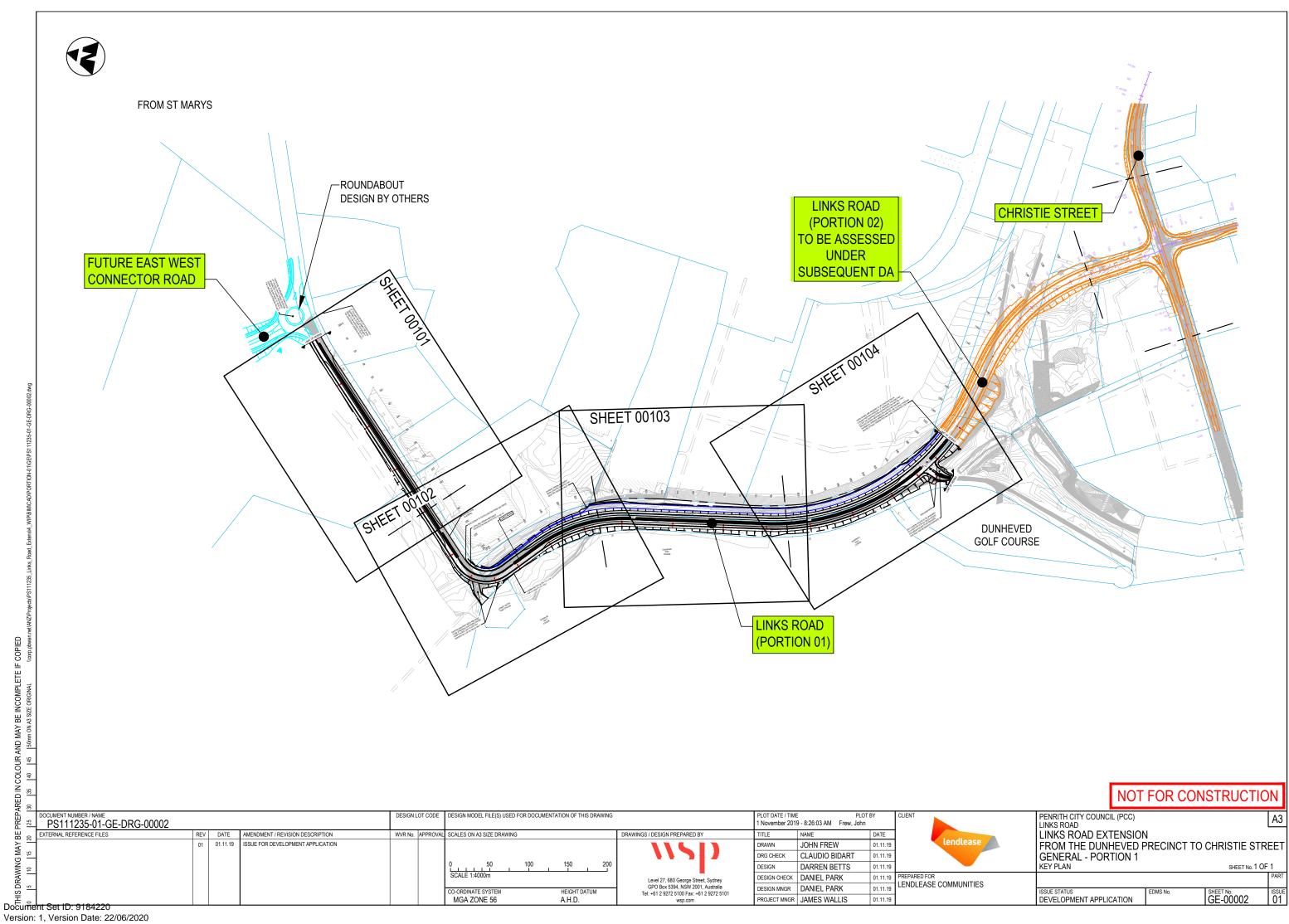
LOCALITY PLAN

PART INDEX

	17111111027					
CODE	NAME					
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EV SEDIMENT AND EROSION CONTROL						
PV	PAVEMENT					
PW PROPERTY ADJUSTMENT WORKS						
RD	ROAD ALIGNMENT AND DETAIL					
RF	ROAD FURNITURE, SIGNAGE AND LINEMARKING					
SM	STORMWATER MANAGEMENT					
UT	UTILITIES					

NOT FOR CONSTRUCTION

PENRITH CITY COUNCIL (PCC) PS111235-01-GE-DRG-00001 0000177,0070,A1:0000177,0090, C1,0.666 November 2019 - 8:25:44 AM Frew, John DESIGNED REVIEWED VERIFIED LINKS ROAD EXTENSION FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET DESIGN PROJ SIGNED NAME DANIEL PARK NAME DARREN BETTS VALIDATION AND ACCEPTANCE OF THESE JAMES WALLIS DRAWINGS AND THE DESIGN SHOWN TITLE SENIOR ENGINEER LENDLEASE COMMUNITIES SENIOR DESIGNER PROJECT MANAGER THEREON IS TO BE CARRIED OUT UNDER SHEET No. GE-00001 01 11 19 01 11 19 01 11 19 DEVELOPMENT APPLICATION Doeument Set ID: 9184220



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PREP,	DOCUMENT NUMBER / NAME PS111235-01-GE-DRG-00005				DESIG	N LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS D	DRAWING		PLOT DATE / To 1 November 2	ME PL0 019 - 8:26:14 AM Frew, Joh	OT BY n	CLIENT	PENRITH CITY COUNCIL (PCC) LINKS ROAD			А3
B 8	EXTERNAL REFERENCE FILES	REV		AMENDMENT / REVISION DESCRIPTION	WVR N	. APPROVA	AL SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		LINKS ROAD EXTENSIO			
G MAY	1	01	01.11.19	ISSUE FOR DEVELOPMENT APPLICATION					1151)	DRAWN DRG CHECK	JOHN FREW CLAUDIO BIDART	01.11.19 01.11.19	lendlease	FROM THE DUNHEVED GENERAL - PORTION 1	PRECINCT TO CHR	ISTIE STR	(EET
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DRAV	1								Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia		C DANIEL PARK	01.11.19	PREPARED FOR LENDLEASE COMMUNITIES				PART
HIS	The Sat ID: 0184220						CO-ORDINATE SYSTEM HEIGHT DATU MGA ZONE 56 A.H.D.	ГИМ	Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com		DANIEL PARK R JAMES WALLIS	01.11.19		ISSUE STATUS DEVELOPMENT APPLICATION	EDMS No. SHEET GE-	No. 00005	ISSUE 01

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PREP/ 25	DOCUMENT NUMBER / NAME PS111235-01-GE-DRG-00006			DESIGN L	OT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING		PLOT DATE / TIM 1 November 201	E PLOT BY 9 - 8:26:25 AM Frew, John	CLIEN'		PENRITH CITY COUNCIL (PCC) LINKS ROAD	A3
H S	EXTERNAL REFERENCE FILES REV	V DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME DATE			LINKS ROAD EXTENSION	
` ∀	01	01.11.19	ISSUE FOR DEVELOPMENT APPLICATION				11611	DRAWN	JOHN FREW 01.11.1	19	lendlease	FROM THE DUNHEVED PRECINCT TO	CHRISTIE STREET
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≱ −	1					1	Level 27, 680 George Street, Sydney	DESIGN CHECK	DANIEL PARK 01.11.1	19 PREPA	ARED FOR		PART
رة ت	4					CO-ORDINATE SYSTEM HEIGHT DATUM	GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101	DESIGN MNGR	DANIEL PARK 01.11.1	19 LENL	DLEASE COMMUNITIES	ISSUE STATUS EDMS No.	SHEET No. ISSUE
Ï						MGA ZONE 56 A.H.D.	WSD.COM	PROJECT MNGR	JAMES WALLIS 01.11.1	19		DEVELOPMENT APPLICATION	SHEET No. ISSUE 01

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PS111235-01-UT-DRG-00104	UTILITIES - PORTION 1	GENERAL ARRANGEMENT PLAN	4 OF 4

NOT FOR CONSTRUCTION

PLOT DATE / TIME PLOT BY 1 November 2019 - 8:26:36 AM Frew, John PENRITH CITY COUNCIL (PCC) LINKS ROAD LINKS ROAD EXTENSION DESIGN LOT CODE DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PS111235-01-GE-DRG-00007
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 DATE
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 01.11.19
 ISSUE FOR DEVELOPMENT APPLICATION
 WVR No. | APPROVAL | SCALES ON A3 SIZE DRAWING DRAWINGS / DESIGN PREPARED BY EXTERNAL REFERENCE FILES FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET
GENERAL - PORTION 1 DRAWN JOHN FREW DRG CHECK CLAUDIO BIDART 01.11.19 DESIGN DARREN BETTS DRAWING INDEX SHEET No. 3 OF 3 01.11.19 DESIGN CHECK DANIEL PARK Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com LENDLEASE COMMUNITIES DESIGN MNGR DANIEL PARK 01.11.19 SHEET No. GE-00007 DEVELOPMENT APPLICATION MGA ZONE 56 PROJECT MNGR JAMES WALLIS 01.11.19

Document Set ID: 9184220

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.

EARTHWORKS

- E1. EARTHWORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS
- E2. EARTHWORKS SHALL BE SET OUT USING DESIGN MODEL

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

GENERAL PAVEMENT NOTES

- GP1. ALL DIMENSIONS SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.
- GP2. ALL PAVEMENT AND SUBSURFACE DRAINAGE CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PENRITH CITY COUNCIL SPECIFICATION FOR THE WORKS TOGETHER WITH THE REQUIREMENTS OF ALL RELEVANT CODES OF PRACTICE REFEREED TO THEREIN AND THE REQUIREMENTS OF ALL STATUTORY AUTHORITIES WHERE APPLICABLE.
- GP3. FOOTPATH PROFILE TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCILS' STANDARD DRAWINGS AND SPECIFICATIONS
- THE CONTRACTOR IS RESPONSIBLE TO CONFIRM EXACT LOCATION OF ALL EXISTING AND RELOCATED UTILITIES. THE CONTRACTOR SHALL CARRY OUT WORKS IN A MANNER TO AVOID ANY DAMAGE TO EXISTING UTILITIES.

PAVEMENT PROFILE NOTES

- PP1. FOR PAVEMENT LOCATIONS REFER TO PLAN DRAWINGS PS111235-01-PV-DRG-00101 TO PS111235-01-PV-DRG-00104.
- PP2. PAVEMENT DESIGNS ARE BASED ON THE SUBGRADE SUPPORT CONDITIONS NOTED. THESE REQUIREMENTS REFLECT MINIMUM EARTHWORKS SUPPORT ASSUMED FOR DESIGN PURPOSES ONLY. FOR EARTHWORKS REQUIREMENTS REFER TO PENRITH CITY COUNCIL ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH PENRITH CITY COUNCIL ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS

- PP3. NOT ALL INTERLAYER TREATMENTS ARE SHOWN ON THE DRAWINGS REFER TO THE RELEVANT PENRITH CITY COUNCIL SPECIFICATION FOR DETAILS
- PP4. THE APPLICATIONS OF A LOW CUTTER SEAL IS AS FOLLOWS:
 - AGGREGATE SPREAD RATE FOR 7mm AGGREGATE IS BETWEEN 200 230 m²/m³.
 - A MAXIMUM OF 2% CUTTER OIL MAY BE USED
 - USE 1% ADHESION AGENT
 - DOUBLE THE AMOUNT OF ROLLING FOR A SPRAYED SEAL
 - TO BE PLACED IN ACCORDANCE WITH PENRITH CITY COUNCIL SPECIFICATION
- PP5. LOW CUTTER SEAL MAY BE SUBSTITUTED WITH A BITUMEN EMULSION SEAL.
- PP6. PRIME AND LOW CUTTER SEAL SPRAY/SPREAD RATES HAVE BEEN PROVIDED AS A GUIDE ONLY AND SHOULD BE DESIGNED BY THE ASPHALT SUB-CONTRACTOR TO THE SITE CONDITIONS AT THE TIME
- PP7. ALLOWABLE ASPHALT THICKNESS DURING PAVEMENT LIFTS SHALL BE IN ACCORDANCE WITH PENRITH CITY COUNCIL SPECIFICATION.
- PP8. ONCE EXISTING WEARING COURSE HAS BEEN REMOVED THE SURFACE SHALL BE INSPECTED BY THE PRINCIPAL. THE FOLLOWING TREATMENT IS ANTICIPATED:
 - EXISTING CRACKING SHALL BE SEALED.
 - AREAS OF EXISTING PAVEMENT REQUIRING HEAVY PATCHING (IF ANY) SHALL BE IDENTIFIED AND AGREED WITH THE PRINCIPAL.
 - APPLY TACK COAT PRIOR TO ASPHALT OVERLAY.
 - TREATMENTS SPECIFIED ABOVE ARE IN ACCORDANCE WITH PENRITH CITY COUNCIL
- PP9. UNBOUND GRANULAR PAVEMENT LAYER BASE (DGB20) AND SUBBASE (DGS20) SHALL BE IN ACCORDANCE WITH THE PENRITH CITY COUNCIL SPECIFICATION.
- PP10.INFERRED GROUND CONDITIONS ALONG THE PORTION 1 ALIGNMENT ARE PRESENTED IN THE GEOTECHNICAL INTERPRETATIVE REPORT (PS111235-111235-GEO-REP-GIR Rev001). INFERRED GROUND CONDITIONS ALONG THE PORTION 1 ALIGNMENT ARE BASED ON CURRENTLY AVAILABLE GEOTECHNICAL INFORMATION. THE CONTRACTOR IS RESPONSIBLE TO CARRY OUT ADDITIONAL CBR AND PITESTS ON ALL FOUNDATIONS TO ESTABLISH THE SUBGRADE CBR AND PITO ENSURE ADEQUACY OF THE PAVEMENT DESIGN WITH RESPECT TO ACTUAL SITE CONDITIONS.

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

MGA ZONE 56

- DG1. THE DOCUMENTED DRAINAGE SYSTEM IS DETAILED ONLY FOR THE PERMANENT ROAD CONFIGURATION UNLESS SPECIFIED OTHERWISE. TEMPORARY DRAINAGE DESIGN SHALL BE CONSTRUCTED AS NEEDED BY THE CONTRACTOR'S CONSTRUCTION STAGING METHODOLOGY.
- 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
- DG4. DRAINAGE SCHEDULE AND LONG SECTIONS SHOW PIPE LENGTHS DERIVED FROM PIT CENTRE POINT TO PIT CENTRE POINT
- DG5. ALL DRAINAGE PIPES SHALL BE MINIMUM CLASS 3 FOR LONGITUDINAL PIPES AND CLASS 2 FOR TRANSVERSE PIPES UNLESS NOTED OTHERWISE.

- DG6. WHERE PRECAST PITS AND OR HEADWALLS ARE USED WITH AGREEMENT WITH PENRITH CITY COUNCIL THE CONNECTION DETAILS SHALL BE AGREED WITH PENRITH CITY COUNCIL REPRESENTATIVE.
- DG7. UNSUITABLE FOUNDING MATERIAL FOR PIPES AND STRUCTURES SHALL BE REMOVED AND IMPROVED IN ACCORDANCE WITH PENRITH CITY COUNCIL ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS.
- DG8. STEEL GRATES AND FRAMES ARE TO COMPLY WITH PENRITH CITY COUNCIL'S SPECIFICATION
- DG9. ALL REINFORCEMENT SHALL COMPLY WITH AS 4671 GRADE D500L AND D500N
- DG10. PITS MORE THAN 1.2m DEEP TO BE PROVIDED WITH STEP IRONS.
- DG11. SAG PITS ARE TO BE PROVIDED WITH CENTRED 2.4m INTERNAL LINTEL SIZE
- DG12 DO NOT OBTAIN DIMENSIONS BY SCALING FROM DRAWINGS
- DG13. DURING CONSTRUCTION, PROVIDE TEMPORARY BRACING/SUPPORT AS REQUIRED TO KEEP WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- DG14, PIPE INSTALLATION IS TO USE A TYPE HS3 SUPPORT AS PER RMS MODEL DRAWING R0240-01 U.N.O.
- DG15. EXISTING STORMWATER PIPES THAT ARE TO BE DECOMMISSIONED ARE TO BE REMOVED WHERE PRACTICAL OR ELSE GROUT-FILLED WITH FLOWABLE GROUT WITH THE APPROVAL OF THE
- DG16. ALL GALVANISING TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD 2312 AND 4680.
- DG17. GEOTEXTILES TO CONFORM WITH RMS STANDARDS R63.
- DG18. ALL PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL, DESIGN GUIDELINES FOR ENGINEERING WORKS FOR SUBDIVISIONS AND DEVELOPMENTS.

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.

DEVELOPMENT APPLICATION

NOT FOR CONSTRUCTION

DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PENRITH CITY COUNCIL (PCC) А3 November 2019 - 8:26:44 AM Frew, John PS111235-01-GE-DRG-00010 XTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING DRAWINGS / DESIGN PREPARED BY LINKS ROAD EXTENSION NAME SSUE FOR DEVELOPMENT APPLICATION DRAWN JOHN FREW 01.11.19 FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET DRG CHECK CLAUDIO BIDART 01.11.19 **GENERAL - PORTION 1** SHEET No. 1 OF 2 DESIGN DARREN BETTS GENERAL NOTES 01.11.19 DESIGN CHECK DANIEL PARK 01.11.19 LENDLEASE COMMUNITIES GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 DESIGN MNGR DANIEL PARK 01.11.19 GE-<u>00010</u>

PROJECT MNGR JAMES WALLIS

01.11.19

SUBSURFACE DRAINAGE NOTES

- SS1. GEOTEXTILE TYPE FOR SUBSURFACE TRENCH DRAINS SHALL BE IN ACCORDANCE WITH RMS SPECIFICATION R63: APPLICATION G3 STRENGTH CLASS A. GEOTEXTILE LAPS SHALL BE IN ACCORDANCE WITH RMS MODEL DRAWING MD.R33.A06.
- SS2. ALL SUBSURFACE DRAINAGE TRENCH DRAINS SHALL BE INSTALLED WITH A MINIMUM LONGITUDINAL
- SS3. GRADE F20 AGGREGATE TRENCH DRAIN BACKFILL MAY BE REPLACED BY NO FINES CONCRETE BACKFILL WHERE REQUIRED. NO FINES CONCRETE MAY NOT BE REPLACED BY AGGREGATE
- SS4. FOR STANDARD SUBSURFACE DRAINAGE PRECAST HEADWALL OUTLET REFER TO RMS MODEL DRAWING MD.R33.A04.01.
- SS5. WHERE THE OUTLET OF THE TRENCH OR INTERFACE DRAIN IS AT A STORMWATER PIT THE HEIGHT OF THE PIPE INVERT ABOVE THE BASE OF THE TRENCH MUST TAPER FROM 100mm TO ZERO WITHIN 5m OF THE OUTLET.
- SS6. SUBSURFACE DRAIN DEPTH MAY BE MODIFIED, SUBJECT TO APPROVAL BY PENRITH CITY COUNCIL ENGINEER OR THE ACCREDITED CERTIFIER.
- SS6. SUBSURFACE DRAIN CROSSING UNDER PAVEMENT MUST BE NON-PERFORATED PIPE AND MUST BE BACKFILLED WITH SELECTED MATERIAL COMPACTED TO 102% OR IF COMPACTION IS NOT ACHIEVABLE THEN BACKFILL WITH SAND CEMENT MIX.

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.
- 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
- 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.

KERB AND GUTTER NOTES

- KG1. ANY EXISTING KERBS DAMAGED AS PART OF THE EXCAVATIONS WORKS SHALL BE REPAIRED TO THE SATISFACTION OF THE PRINCIPALS REPRESENTATIVE.
- KG2. KERB DETAILS ARE AS PER PENRITH CITY COUNCIL STANDARDS. WHERE TYPE OF KERB REFERENCED IS NOT INCLUDED IN THE PENRITH CITY COUNCIL STANDARDS, REFER TO RMS
- KG3. THE KERB SCHEDULE DOES NOT INCLUDE ITEMS SUCH AS PRAM RAMPS AND DRIVEWAYS. LOCATIONS CAN BE IDENTIFIED ON THE ROAD AND PAVEMENT PLAN DRAWINGS.
- KG4. THE CONTRACTOR SHALL ALLOW PROVISION FOR KERB TRANSITIONS BETWEEN KERB TYPES AS PER THE PENRITH CITY COUNCIL SPECIFICATION.

ABBREVIATIONS

MGA ZONE 56

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

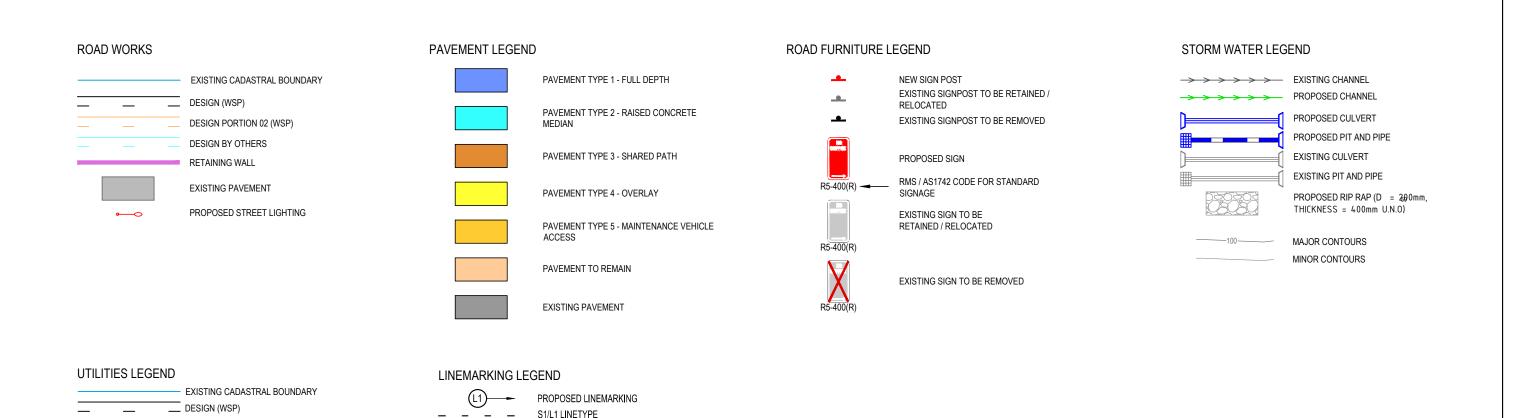
NOT FOR CONSTRUCTION

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PROJECT MNGR JAMES WALLIS

01.11.19

BE INCOMPLETE IF COP



UTILITIES LEGEND - EXISTING - - E ----- ELECTRICAL CONDUIT ENDEAVOUR ENERGY ELECTRICAL OVERHEAD WIRE ENDEAVOUR **ENERGY** SEWER MAIN SYDNEY WATER — — — W — WATER MAIN SYDNEY WATER
— — G — GAS MAIN JEMENA — — OPT — OPTUS OPTIC FIBRE

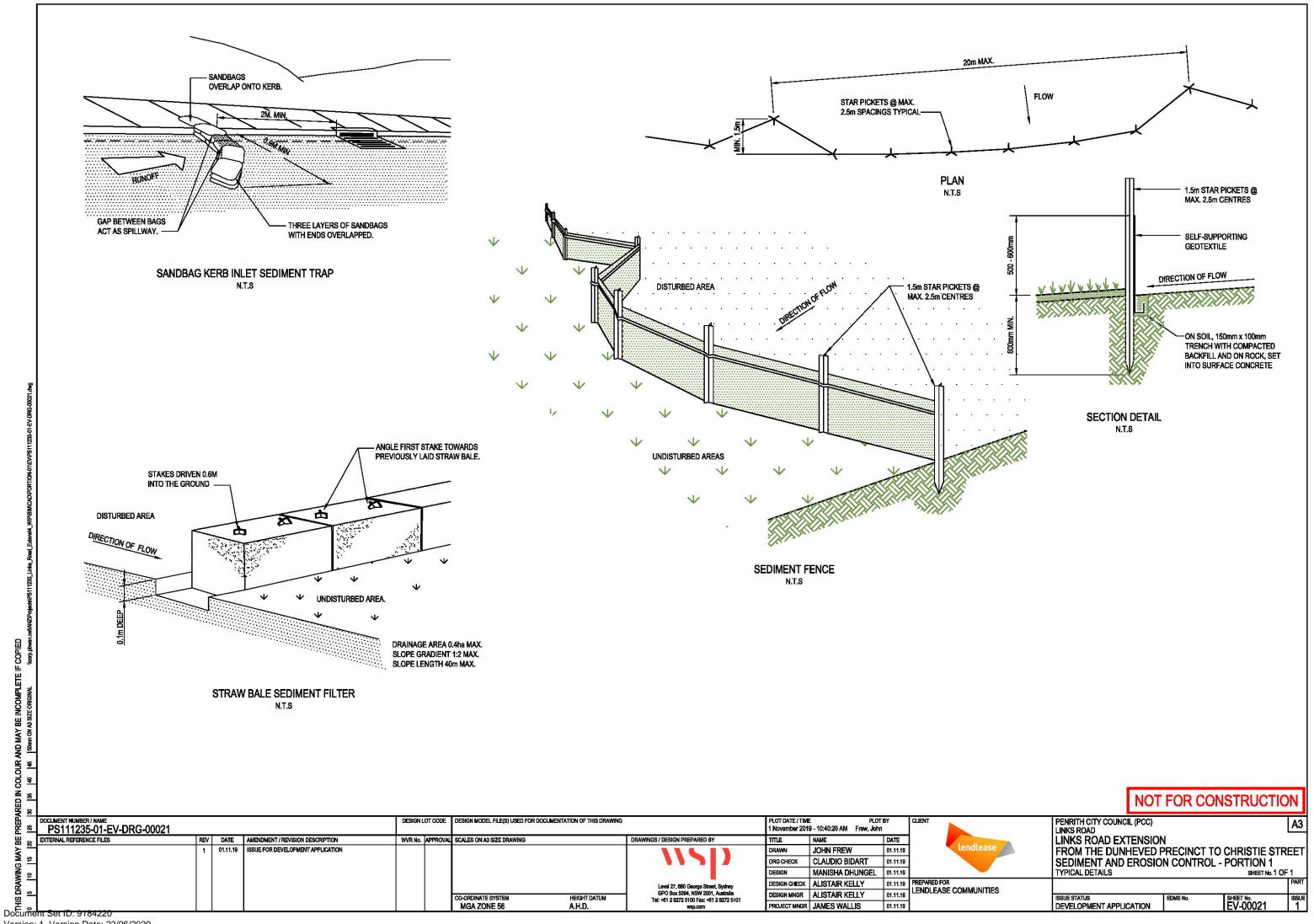
— — T — TELSTRA COMMUNICATION CONDUIT UTILITIES LEGEND - EXISTING TO BE RELOCATED - - E ----- ELECTRICAL CONDUIT TO BE RELOCATED - ELECTRICAL OVERHEAD WIRE TO BE RELOCATED S — SEWER MAIN TO BE RELOCATED — — — W — WATER MAIN TO BE RELOCATED ——— — G ——— GAS MAIN TO BE RELOCATED — — — OPT — OPTUS OPTIC FIBRE TO BE RELOCATED — — T — TELSTRA COMMUNICATION CONDUIT TO BE RELOCATED UTILITIES LEGEND - EXISTING TO BE PROTECTED - ELECTRICAL CONDUIT TO BE PROTECTED - ELECTRICAL OVERHEAD WIRE TO BE PROTECTED SEWER MAIN TO BE PROTECTED — — — W — WATER MAIN TO BE PROTECTED — — G — GAS MAIN TO BE PROTECTED — — OPT — OPTUS OPTIC FIBRE TO BE PROTECTED. TELSTRA COMMUNICATION CONDUIT TO BE PROTECTED

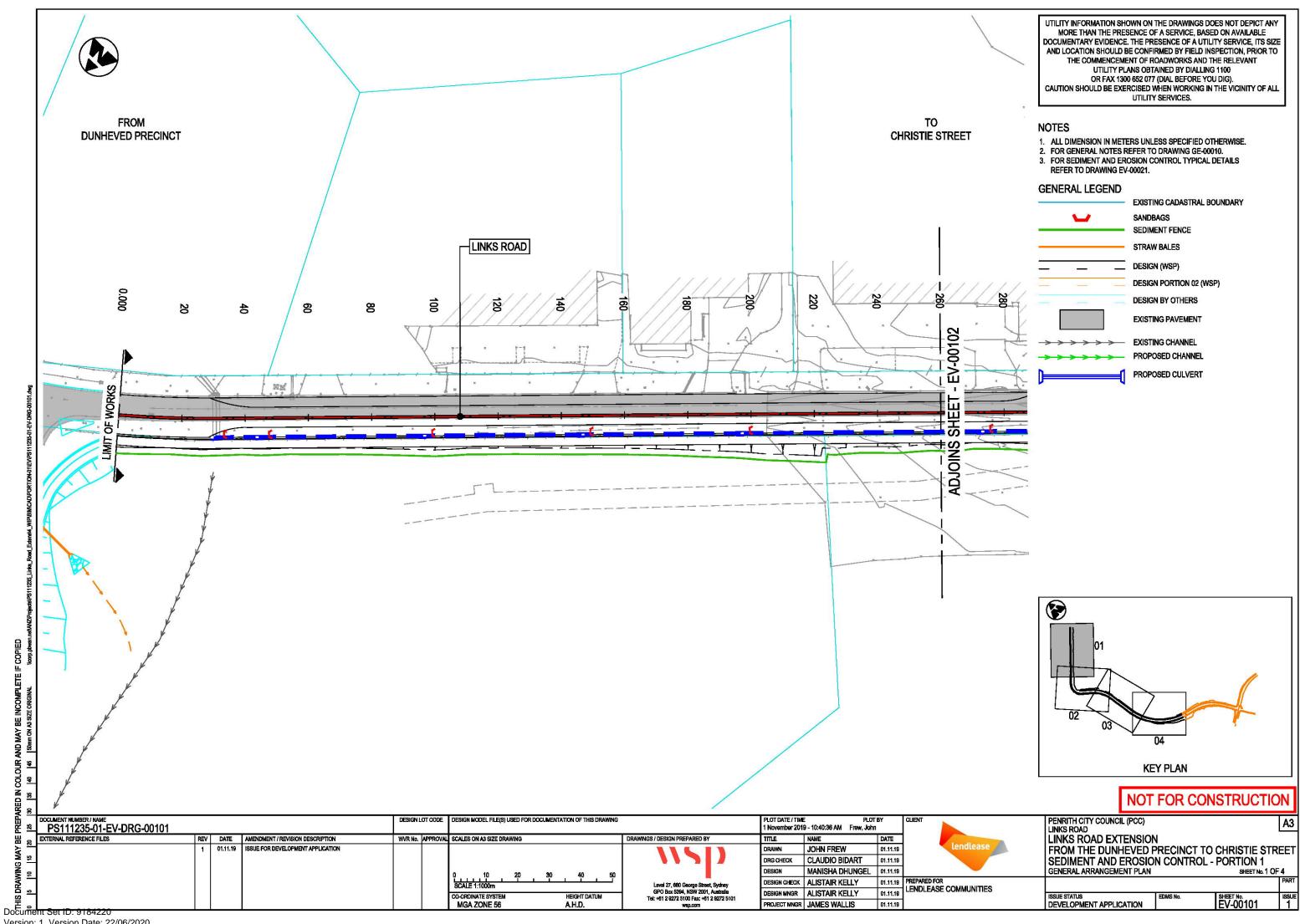
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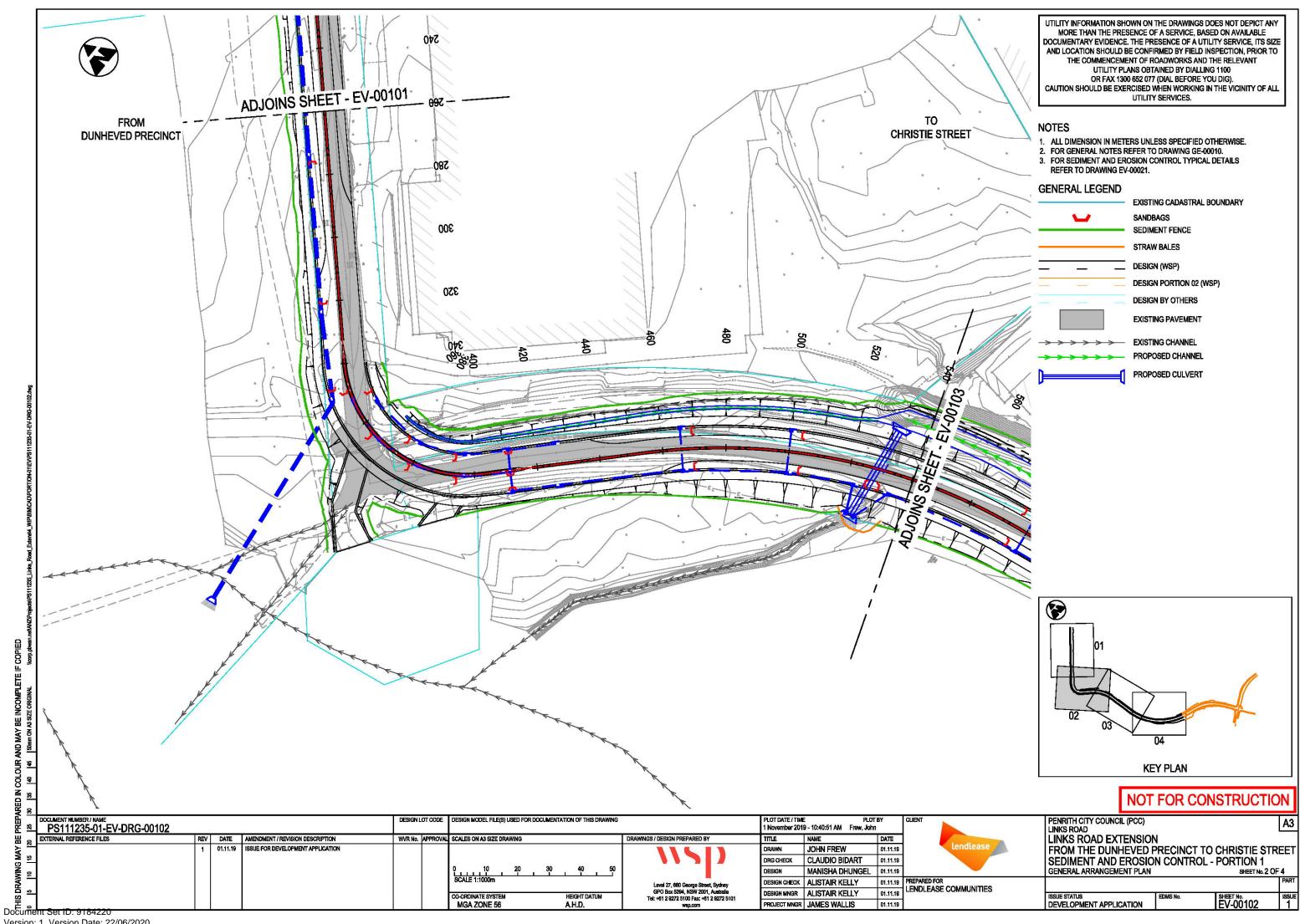
DESIGN BY OTHERS

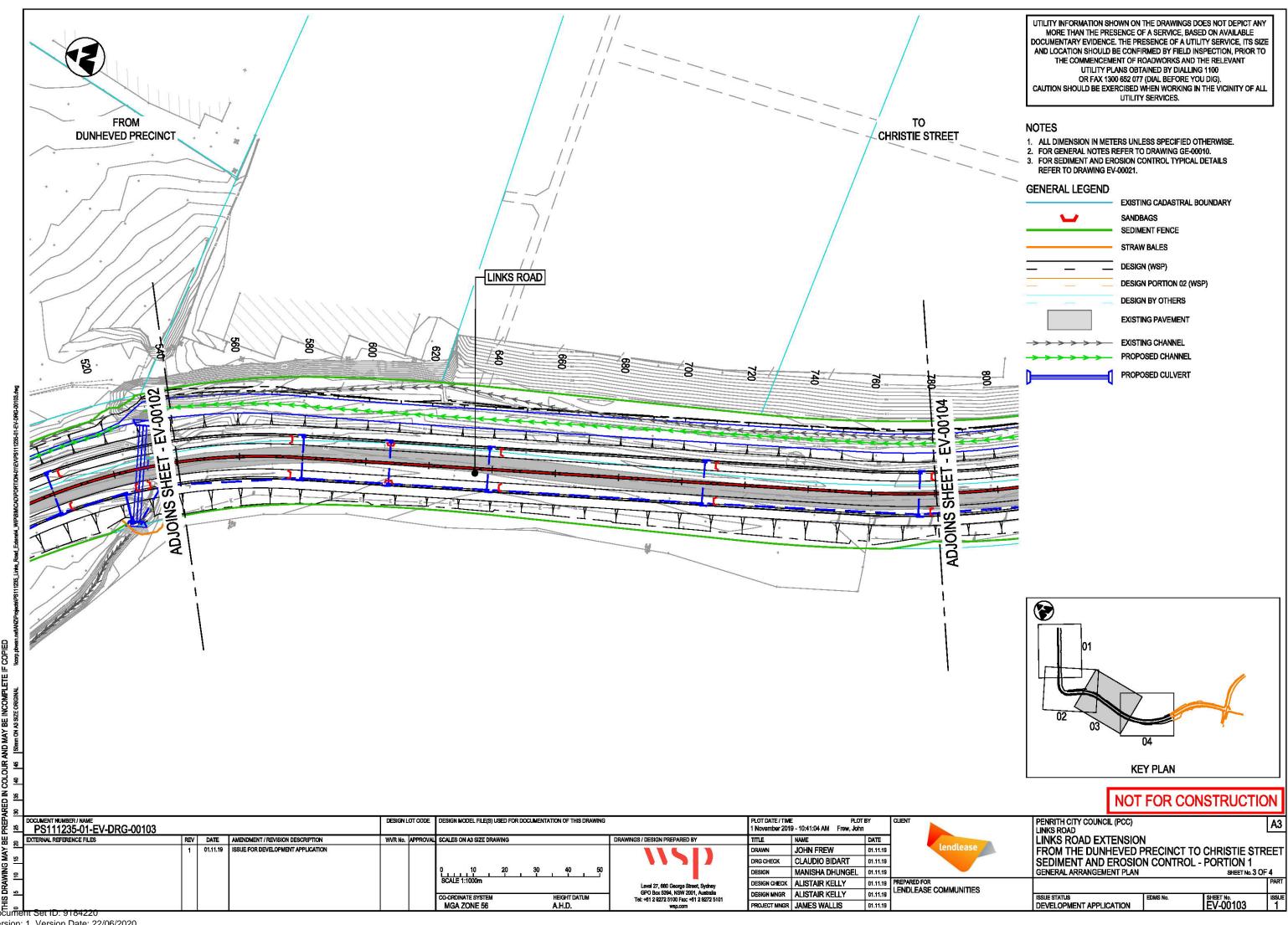
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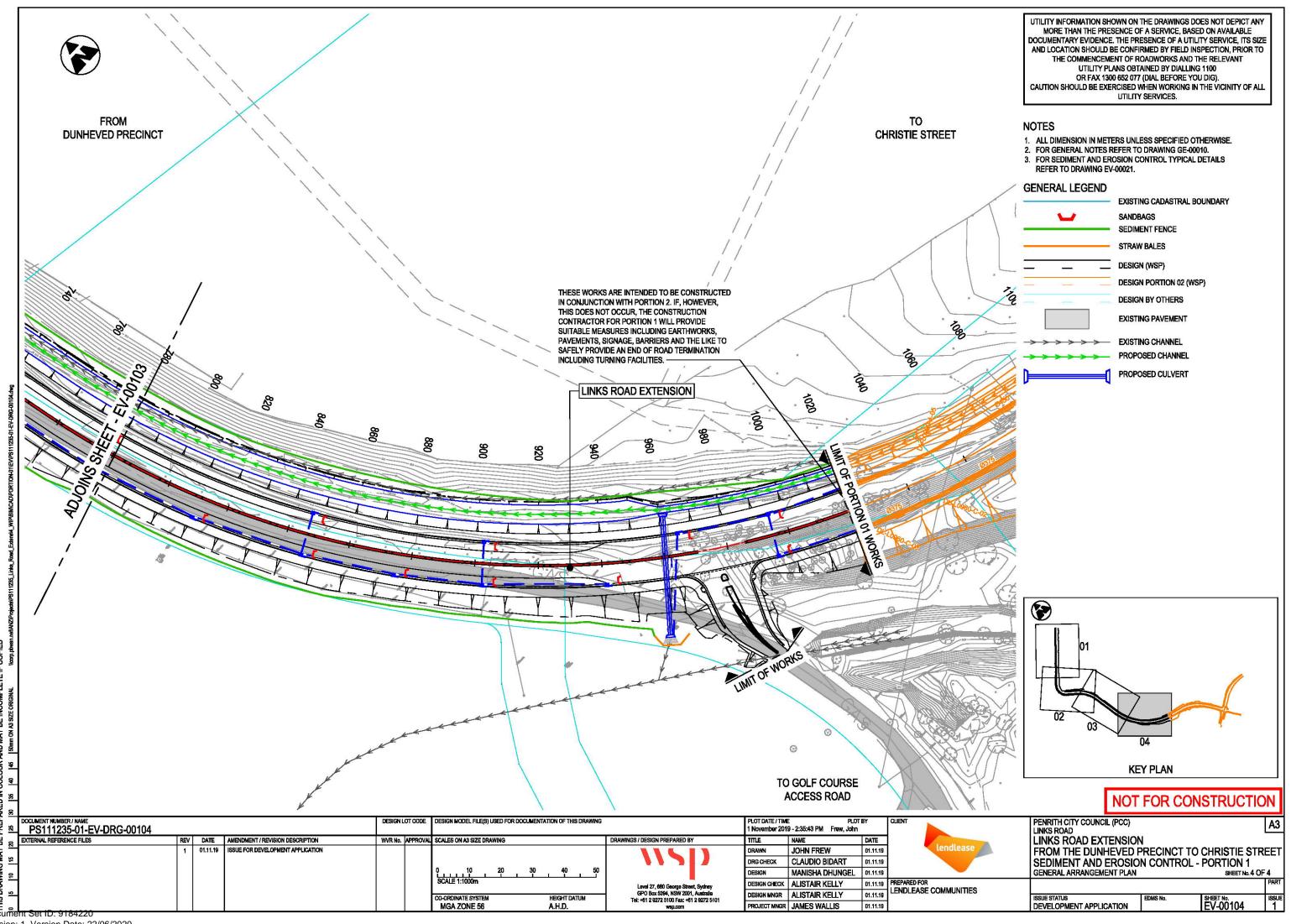
DESIGN LOT CODE DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PLOT DATE / TIME PENRITH CITY COUNCIL (PCC) PS111235-01-GE-DRG-00021 November 2019 - 8:27:01 AM Frew, John LINKS ROAD EXTENSION EXTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION WVR No. | APPROVAL | SCALES ON A3 SIZE DRAWING DRAWINGS / DESIGN PREPARED BY NAME ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW DRAWN 01.11.19 FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET DRG CHECK CLAUDIO BIDART 01.11.19 **GENERAL - PORTION 1** DARREN BETTS SHEET No. 1 OF 1 DESIGN LEGEND 01.11.19 DESIGN CHECK DANIEL PARK Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com LENDLEASE COMMUNITIES DESIGN MNGR DANIEL PARK 01.11.19 GE-00021 DEVELOPMENT APPLICATION MGA ZONE 56 PROJECT MNGR JAMES WALLIS 01.11.19 Document Set ID: 9184220











KERB SC	CHEDULE								
TAC	CONTROL LINE	STATION		LENGTH	TR/	ANSITION	TVDE	COMMENTO	
TAG	CONTROL LINE	START	FINISH	LENGTH	START	FINISH	TYPE	COMMENTS	
KG-01	MC10 0.00 361.81		365.90	TIE IN TO EAST WEST CONNECTOR ROAD DESIGN	DRIVEWAY LAYBACK	SA	REFER TO PENRITH CITY COUNCIL STANDARD DRAWING SD1004 FOR INDUSTRIAL VEHICULAR CROSSOVER DETAILS. SOUTHBOUND EXISTING KERB AND GUTTER TO BE RETAINED.		
KG-02	MC10	399.67	1020.00	668.25	TIE INTO EXISTING KERB	NIL	SA	CONTINUATION OF KERB INTO INTERSECTION UPGRADE	
KG-03	MK15	0.00	34.60	34.60	SA	DRIVEWAY LAYBACK	SA	REFER TO PENRITH CITY COUNCIL STANDARD DRAWING SD1004 FOR INDUSTRIAL VEHICULAR CROSSOVER DETAILS.	
KG-04	MK16	0.00	40.00	40.00	SA	NIL	SA	REFER TO PENRITH CITY COUNCIL STANDARD DRAWING SD1004 FOR INDUSTRIAL VEHICULAR CROSSOVER DETAILS.	
KG-05	MC10	990.54	1020.00	62.45	NIL	NIL	SA	CONTINUATION OF KERB INTO INTERSECTION UPGRADE	
MK-01	MT20	0.00	150.63	150.63	NIL	NIL	SF	MEDIAN ISLAND	
MK-02	MX11	0.00	23.50	23.50	NIL	NIL	SF	MEDIAN ISLAND	
MK-03	MX10	0.00	7.40	7.40	NIL	NIL	SF	MEDIAN ISLAND	

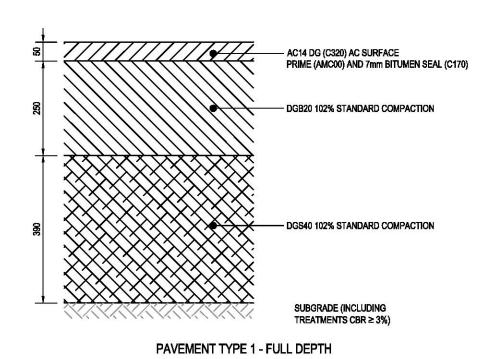
NOTE:

1. SCHEDULES ARE TO BE READ IN CONJUNCTION WITH THE PAVEMENT DRAWINGS PV-00101 TO PV-00104.

NOT FOR CONSTRUCTION

PENRITH CITY COUNCIL (PCC)
LINKS ROAD
LINKS ROAD EXTENSION
FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET
PAVEMENT - PORTION 1
KEPR SCHEDULES PLOT DATE / TIME PLOT BY 1 November 2019 - 9:23:18 AM Frew, John DOCUMENT NUMBER! NAME PS111235-01-PV-DRG-00011 EXTERNAL REFERENCE FILES DESIGN LOT CODE DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING
 REV
 DATE
 AMENDMENT / REVISION DESCRIPTION

 D1
 01.11.19
 ISSUE FOR DEVELOPMENT APPLICATION
 WVR No. APPROVAL SCALES ON A3 SIZE DRAWING DRAWINGS / DESIGN PREPARED BY JOHN FREW 01.11.19 DRG CHECK CLAUDIO BIDART 01.11.19 DESIGN STEPHEN HULKA 01.11.19 KERB SCHEDULES SHEET No. 1 OF 1 01.11.19 PREPARED FOR LENDLEASE COMMUNITIES DESIGN CHECK TANMAY VAIDYA Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com DESIGN MINGR DANIEL PARK 01.11.19 CO-ORDINATE SYSTEM MGA ZONE 56 HEIGHT DATUM A.H.D. ISSUE STATUS
DEVELOPMENT APPLICATION SHEET No. PV-00011 PROJECT MNGR JAMES WALLIS 01.11.19 Document Set ID: 9184220



SCALE 1:10

N25 CONCRETE WITH CONTINUOUS LAPPED
REINFORCEING MESH (SL72) PLACED CENTRALLY

DGS20 OR 5MPa CONCRETE (DEBONDING
TREATMENT REQUIRED IF CONCRETE USED)
SUBGRADE (INCLUDING
TREATMENTS CBR ≥ 3%)

SL72 MESH PLACED CENTRALLY N32 CONCRETE WITH CONTINUOUS LAPPED REINFORCING MESH (SL72), BROOM FINISH. PROVIDE EXPANSION JOINTS EVERY 6m AND SAWCUT JOINTS EVERY 3m. GRAVEL SUBBASE DGS20 102% STANDARD COMPACTION SUBGRADE (INCLUDING TREATMENTS CBR ≥ 3%)

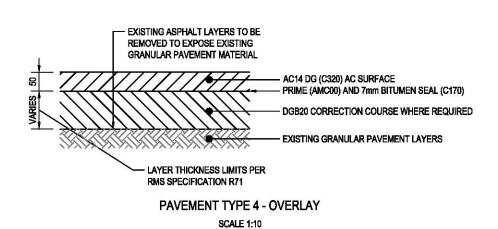
PAVEMENT TYPE 2 - RAISED CONCRETE
MEDIAN/TRAFFIC ISLAND AND CONCRETE INFILL

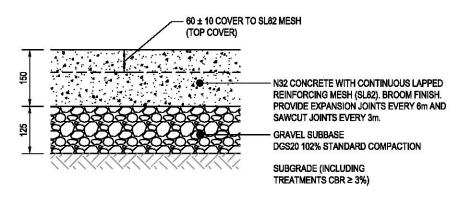
SCALE 1:10

PAVEMENT TYPE 3 - SHARED PATH

SCALE 1:10







PAVEMENT TYPE 5 - MAINTENANCE VEHICLE ACCESS SCALE 1:10

SCALE 1:10

NOTES

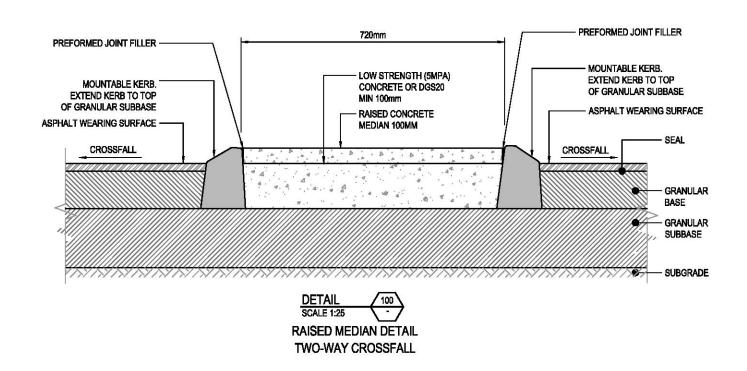
1. FOR GENERAL NOTES REFER TO SHEET GE-00010.

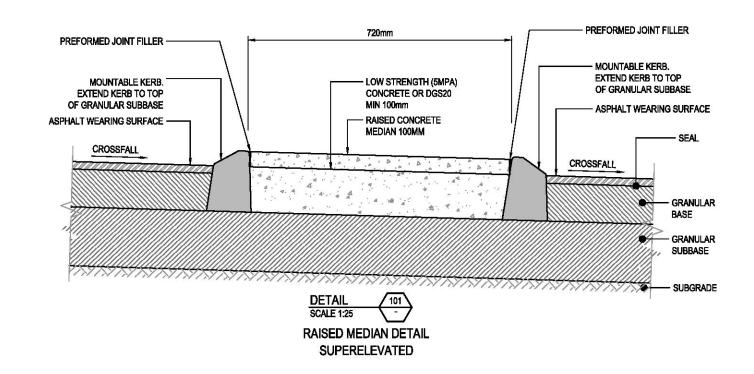
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PLOT DATE / TIME PLOT 1 November 2019 - 9:23:24 AM Frew, John DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PENRITH CITY COUNCIL (PCC) PS111235-01-PV-DRG-00021 LINKS ROAD EXTENSION EXTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING DRAWINGS / DESIGN PREPARED BY ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET CLAUDIO BIDART PAVEMENT - PORTION 1 DRG CHECK 01.11.19 PAVEMENT PROFILE STEPHEN HULKA 01.11.19 SHEET No. 1 OF 1 DESIGN CHECK TANMAY VAIDYA 01.11.19 LENDLEASE COMMUNITIES DESIGN MNGR DANIEL PARK 01.11.19 SHEET No. PV-00021 DEVELOPMENT APPLICATION MGA ZONE 56 A.H.D. PROJECT MNGR JAMES WALLIS 01.11.19

Version: 1, Version Date: 22/06/2020

Document Set ID: 9184220



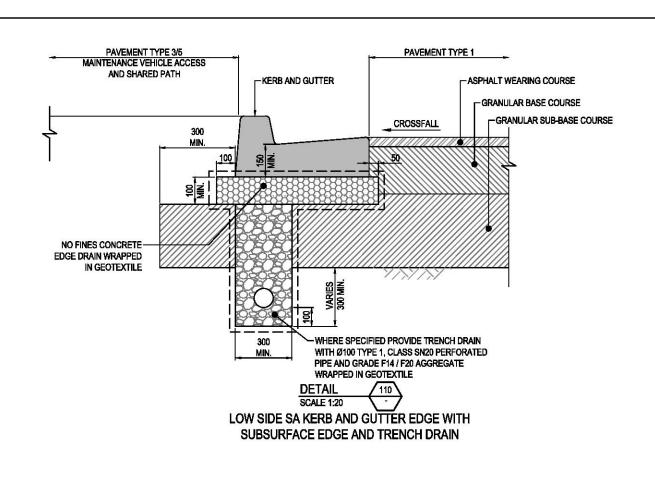


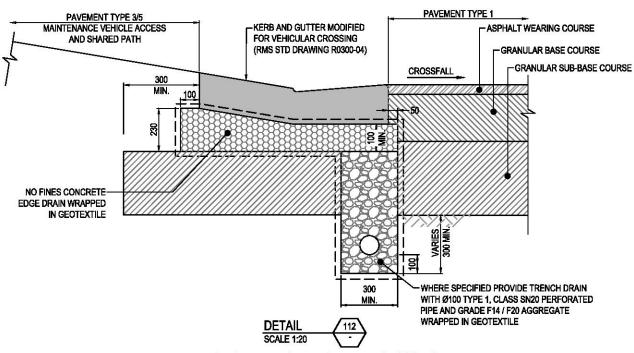
NOTES

- 1. FOR GENERAL NOTES REFER TO SHEET GE-00010.
- 2. ALL DIMENSION IN METERS UNLESS SPECIFIED OTHERWISE.

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PLOT DATE / TIME PLOT 1 November 2019 - 9:23:31 AM Frew, John DESIGN LOT CODE DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PENRITH CITY COUNCIL (PCC) PS111235-01-PV-DRG-00022 LINKS ROAD EXTENSION EXTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING DRAWINGS / DESIGN PREPARED BY ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET CLAUDIO BIDART PAVEMENT - PORTION 1 DRG CHECK 01.11.19 0.75 1.0 STEPHEN HULKA PAVEMENT DETAILS DESIGN 01.11.19 SHEET No. 1 OF 1 DESIGN CHECK TANMAY VAIDYA 01.11.19 Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com LENDLEASE COMMUNITIES DESIGN MINGR DANIEL PARK 01.11.19 SHEET №. PV-00022 DEVELOPMENT APPLICATION MGA ZONE 56 A.H.D. PROJECT MNGR JAMES WALLIS 01.11.19 Document Set ID: 9184220





HIGH SIDE VEHICULAR CHANNEL CROSSING SA KERB AND GUTTER EDGE WITH SUBSURFACE EDGE AND TRENCH DRAIN

PAVEMENT TYPE 3/5 MAINTENANCE VEHICLE PAVEMENT TYPE 1 ACCESS KERB AND GUTTER - ASPHALT WEARING COURSE AND SHARED PATH -GRANULAR BASE COURSE -GRANULAR SUB-BASE COURSE CROSSFALL 300 NO FINES CONCRETE-EDGE DRAIN WRAPPED IN GEOTEXTILE 300 WHERE SPECIFIED PROVIDE TRENCH DRAIN WITH Ø100 TYPE 1, CLASS SN20 PERFORATED PIPE AND GRADE F14 / F20 AGGREGATE WRAPPED IN GEOTEXTILE DETAIL **SCALE 1:20** HIGH SIDE SA KERB AND GUTTER EDGE WITH

SUBSURFACE EDGE AND TRENCH DRAIN

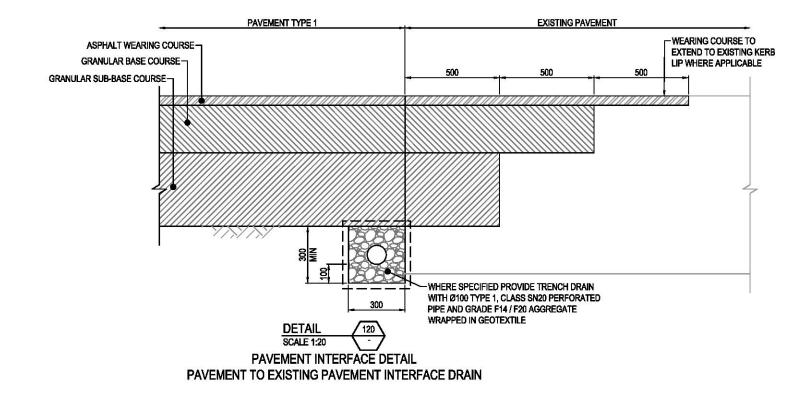
NOTES

- 1. FOR GENERAL NOTES REFER TO SHEET GE-00010.
- 2. ALL DIMENSION IN METERS UNLESS SPECIFIED OTHERWISE.

A3

NOT FOR CONSTRUCTION

PLOT DATE / TIME PLOT 1 November 2019 - 9:23:38 AM Frew, John PENRITH CITY COUNCIL (PCC) DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PS111235-01-PV-DRG-00031 LINKS ROAD EXTENSION XTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET 01.11.19 CLAUDIO BIDART PAVEMENT - PORTION 1 DRG CHECK 01.11.19 PAVEMENT EDGE DETAILS SIGN STEPHEN HULKA 01.11.19 SHEET No. 1 OF 2 DESIGN CHECK **TANMAY VAIDYA** 01.11.19 Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com LENDLEASE COMMUNITIES DESIGN MINGR DANIEL PARK 01.11.19 SHEET No. PV-00031 DEVELOPMENT APPLICATION MGA ZONE 56 A.H.D. PROJECT MNGR JAMES WALLIS 01.11.19 Document Set ID: 9184220



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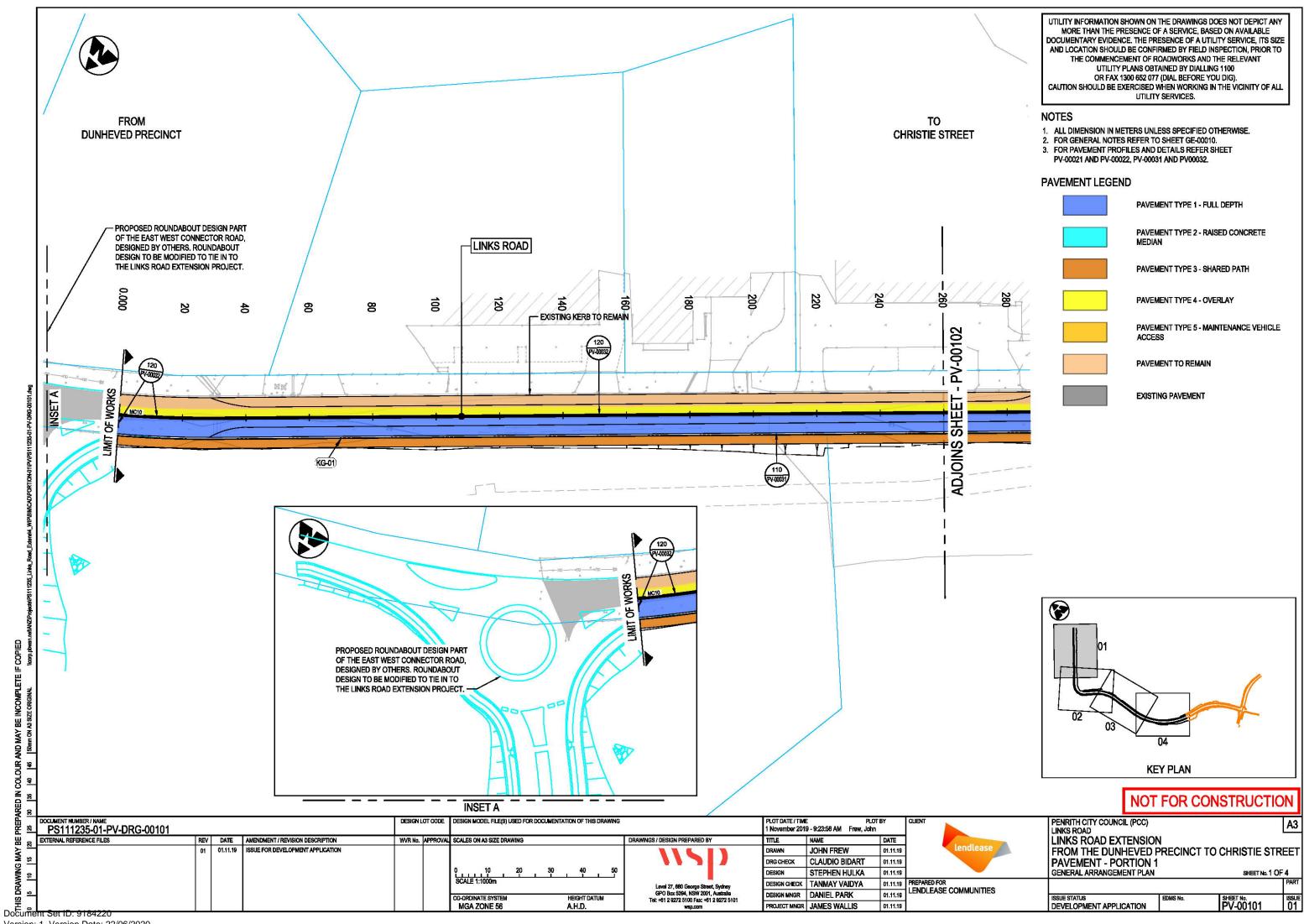
- 1. FOR GENERAL NOTES REFER TO SHEET GE-00010.
- 2. ALL DIMENSION IN METERS UNLESS SPECIFIED OTHERWISE.

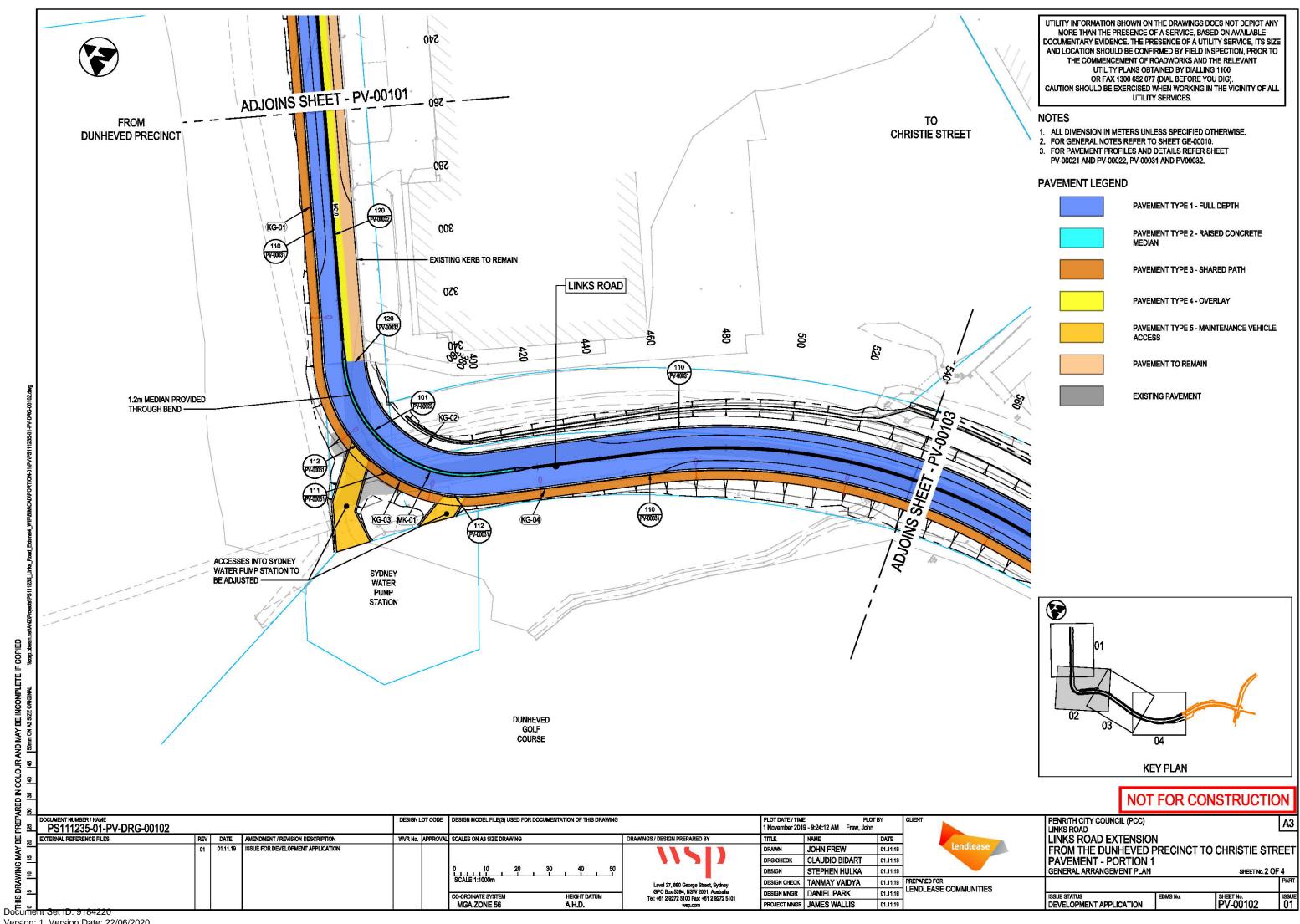
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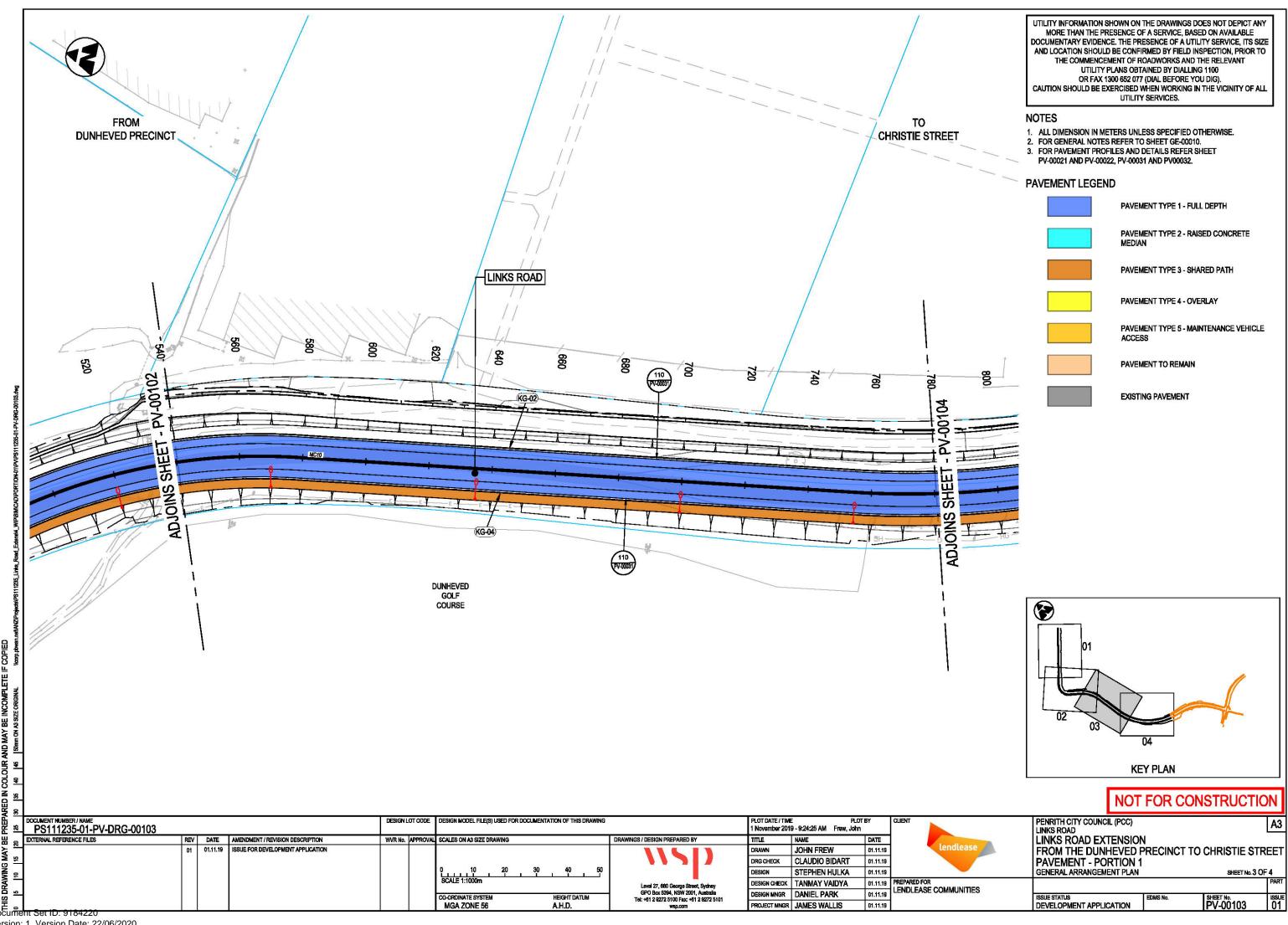
PENRITH CITY COUNCIL (PCC) LINKS ROAD PLOT DATE / TIME PLOT BY 1 November 2019 - 9:23:44 AM Frew, John DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PS111235-01-PV-DRG-00032 LINKS ROAD EXTENSION EXTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET PAVEMENT - PORTION 1 01.11.19 ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW CLAUDIO BIDART DRG CHECK 01.11.19 SHEET No. 2 OF 2 STEPHEN HULKA PAVEMENT EDGE DETAILS ESIGN 01.11.19 PREPARED FOR LENDLEASE COMMUNITIES DESIGN CHECK TANMAY VAIDYA 01.11.19 Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wep.com DESIGN MINGR DANIEL PARK 01.11.19 SHEET No. PV-00032 A.H.D. PROJECT MNGR JAMES WALLIS DEVELOPMENT APPLICATION MGA ZONE 56 01.11.19

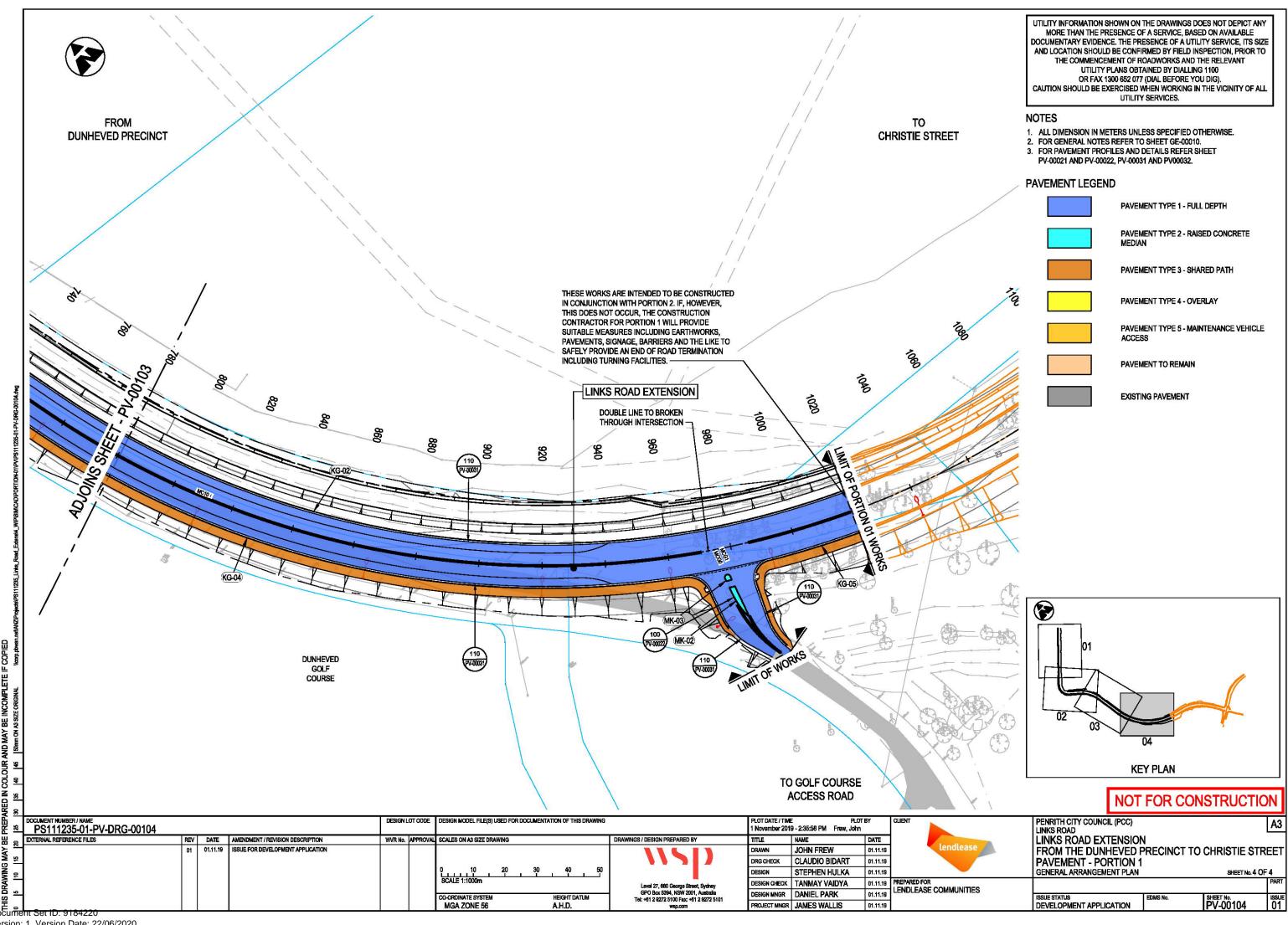
Version: 1, Version Date: 22/06/2020

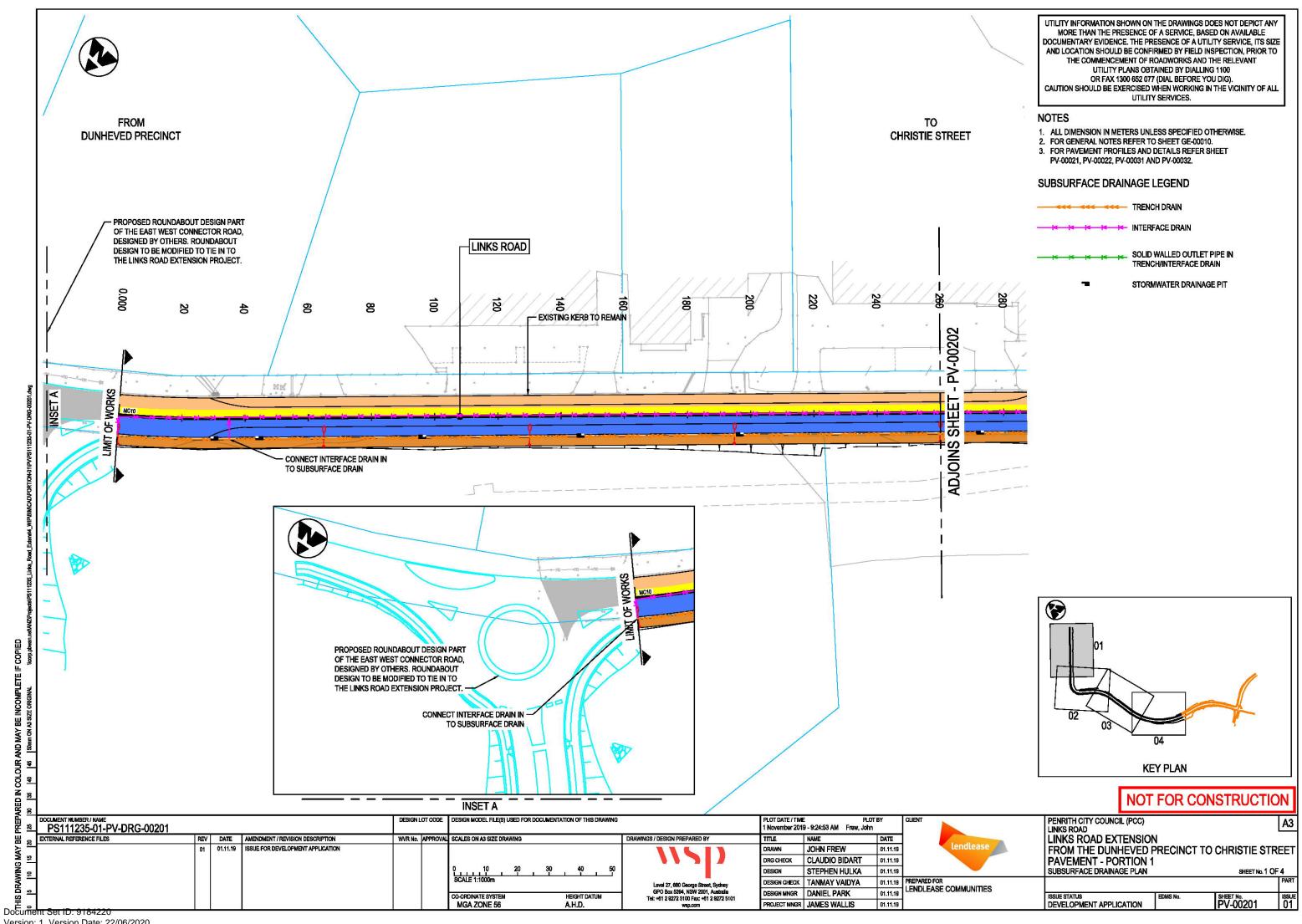
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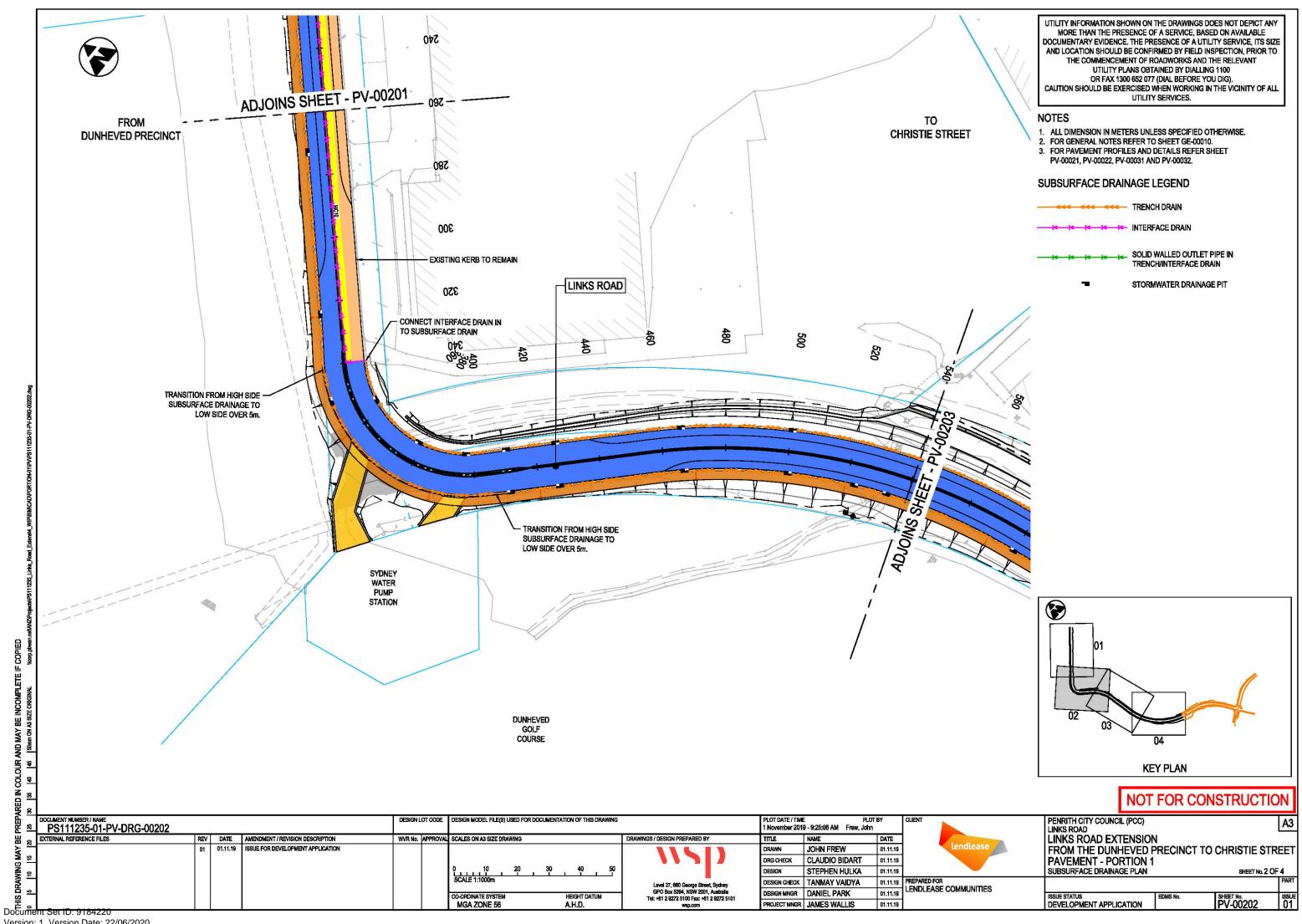


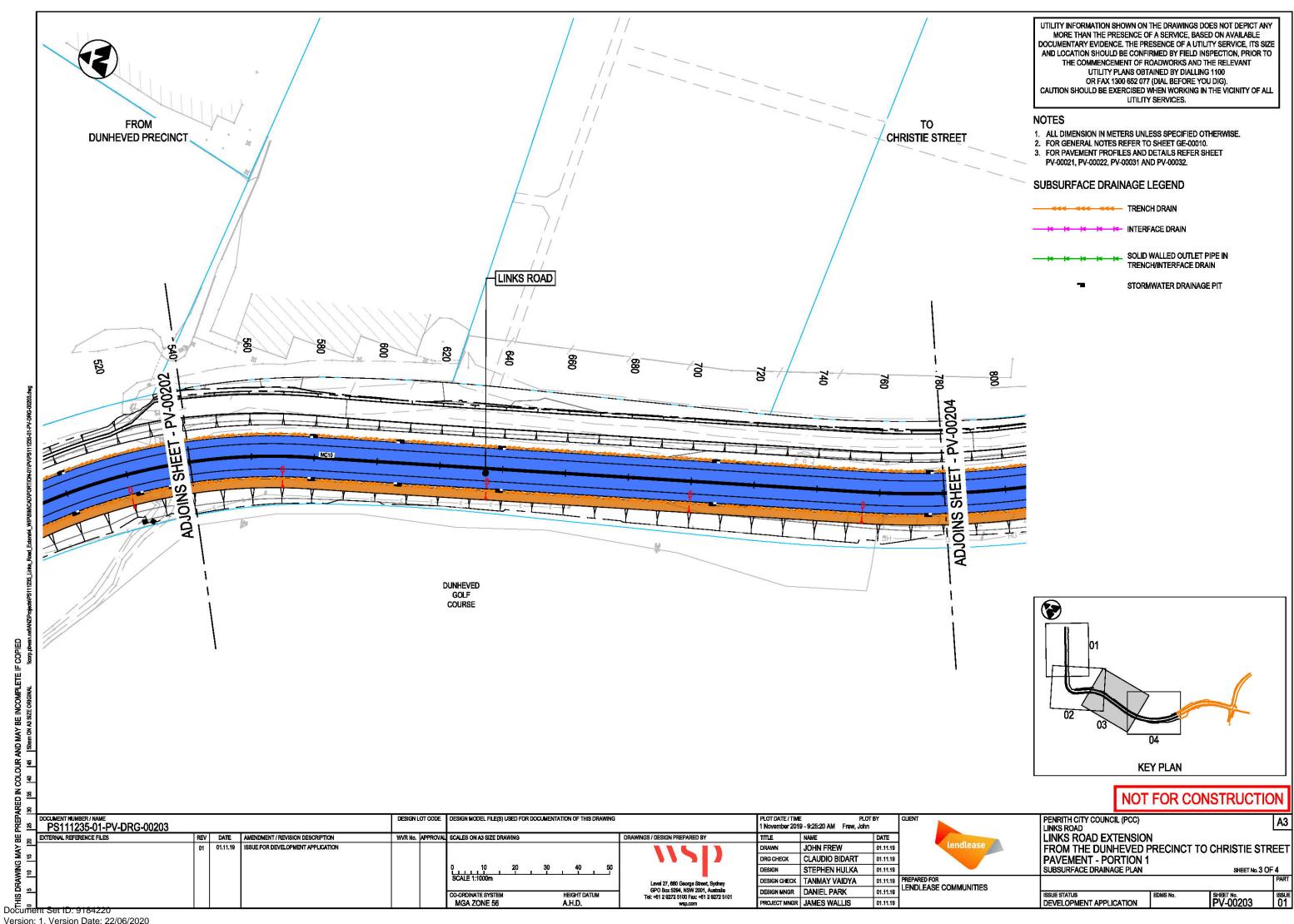


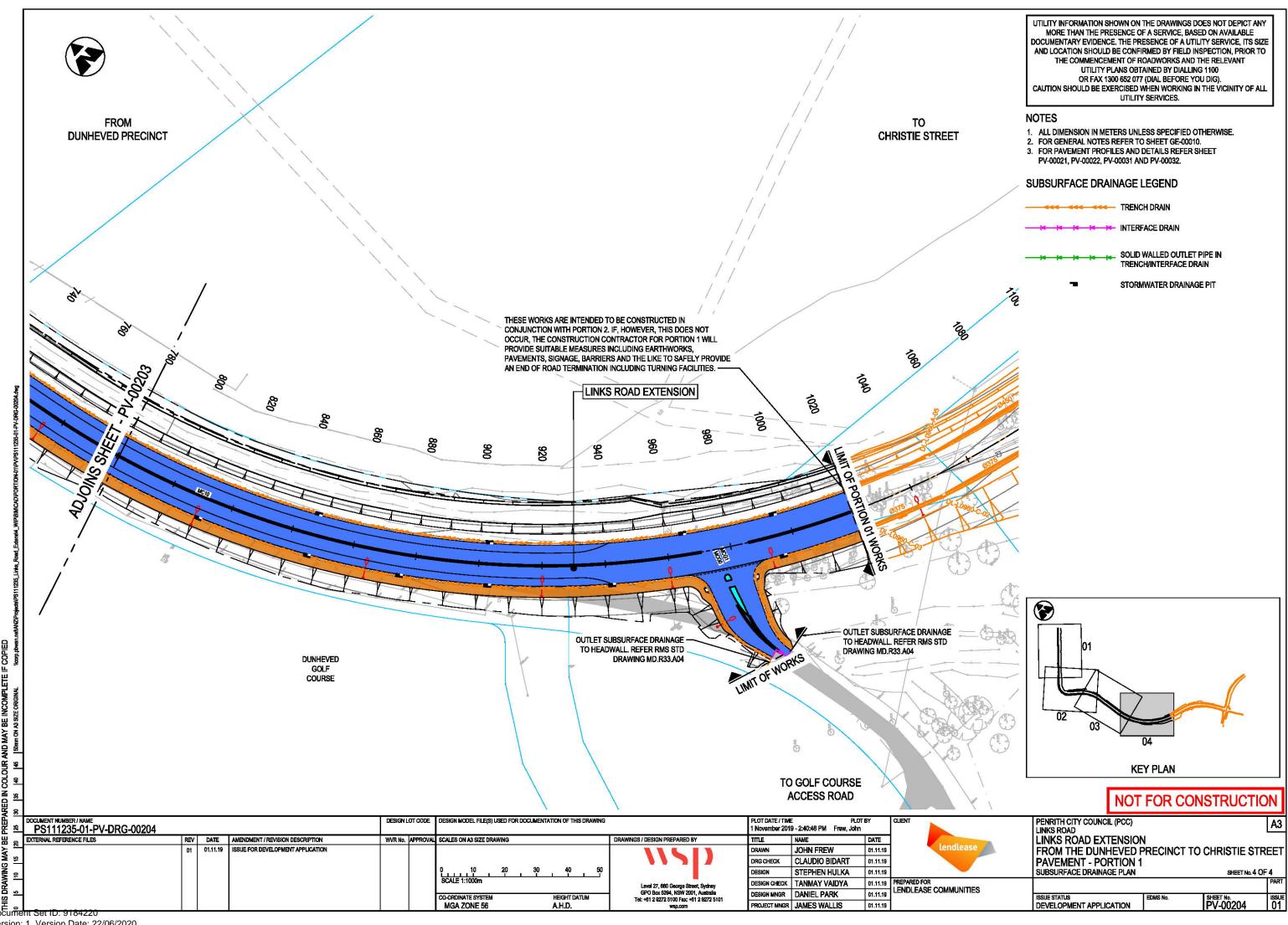


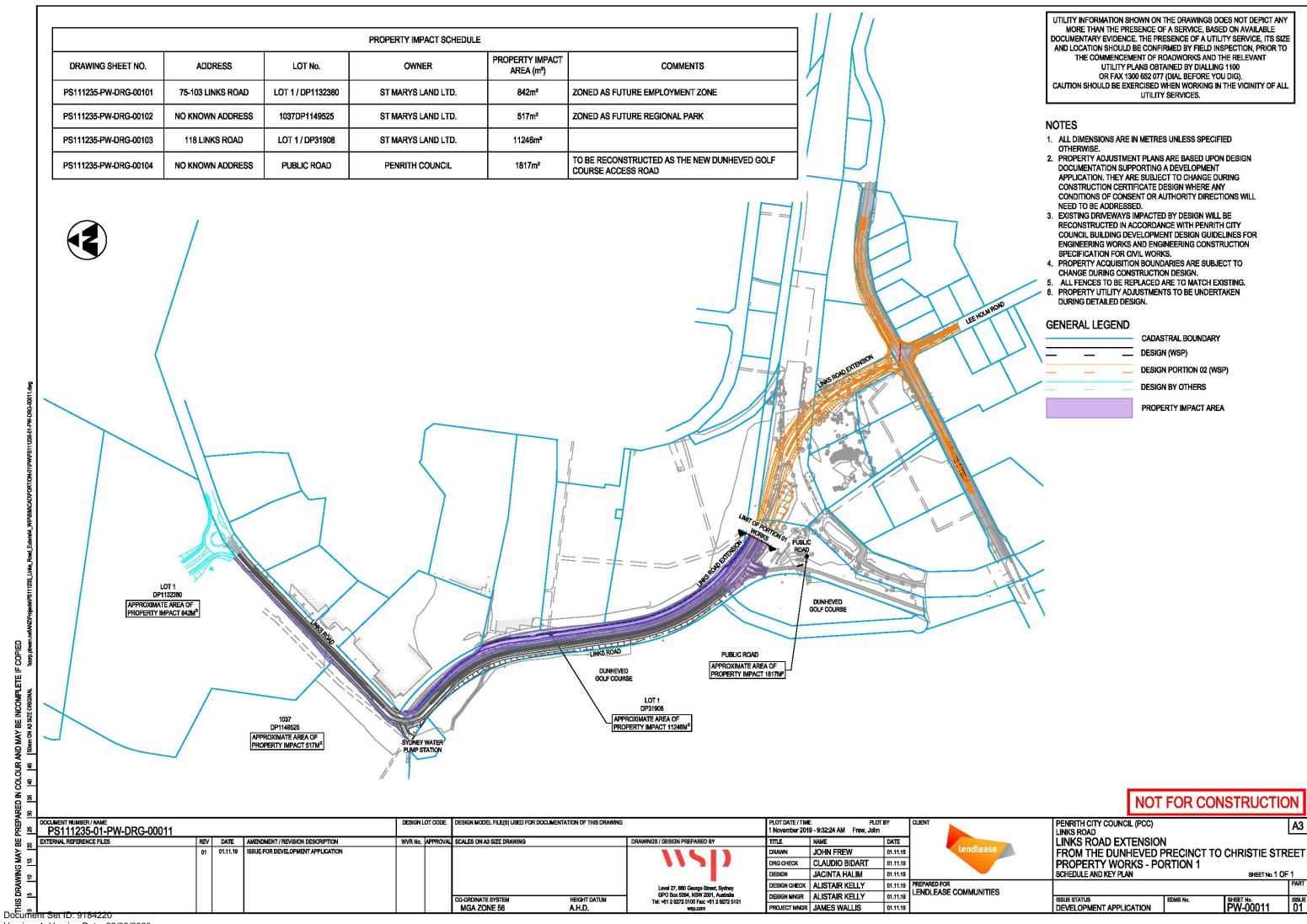


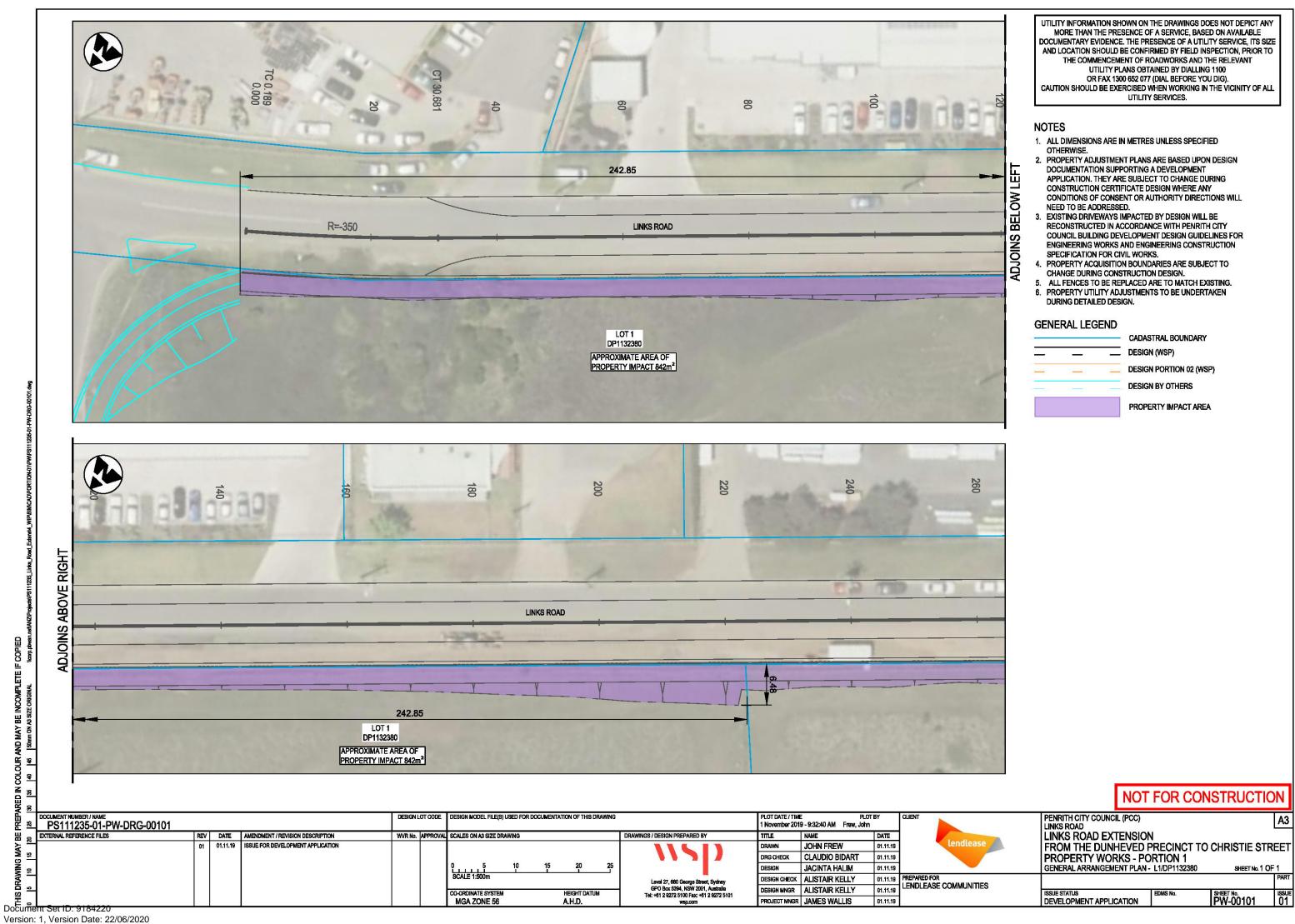


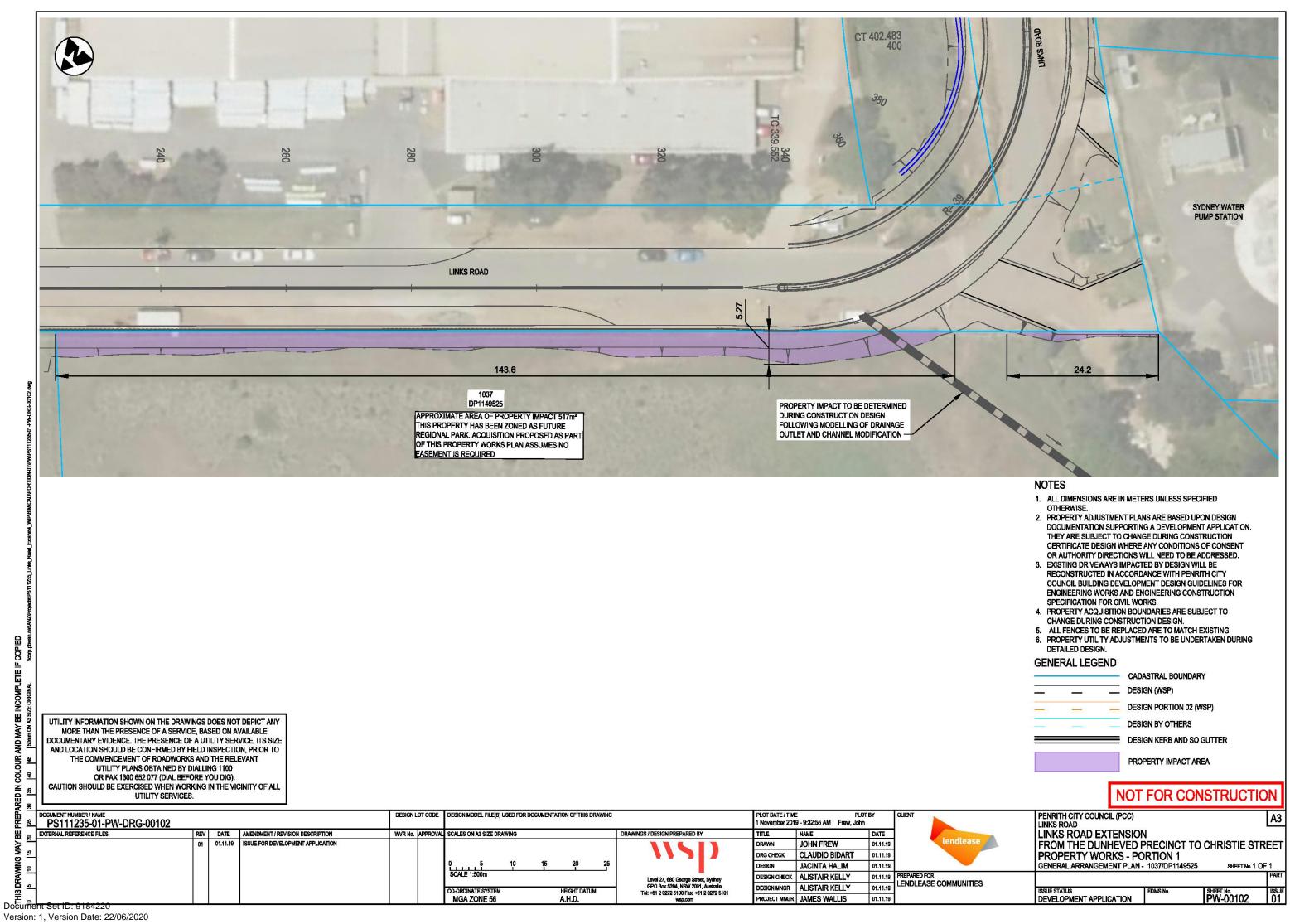


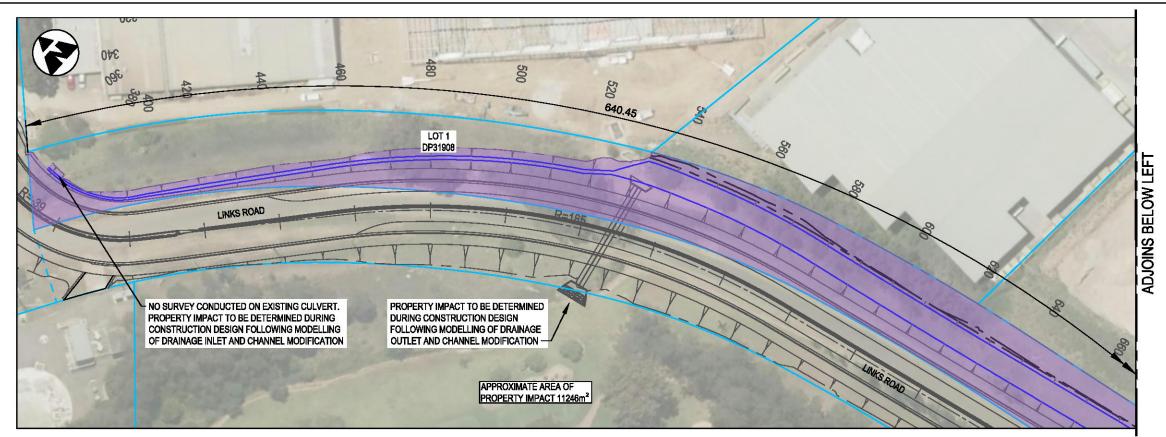












DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING

UTILITY INFORMATION SHOWN ON THE DRAWINGS DOES NOT DEPICT ANY MORE THAN THE PRESENCE OF A SERVICE, BASED ON AVAILABLE DOCUMENTARY EVIDENCE. THE PRESENCE OF A UTILITY SERVICE, ITS SIZE AND LOCATION SHOULD BE CONFIRMED BY FIELD INSPECTION, PRIOR TO THE COMMENCEMENT OF ROADWORKS AND THE RELEVANT UTILITY PLANS OBTAINED BY DIALLING 1100 OR FAX 1300 652 077 (DIAL BEFORE YOU DIG). CAUTION SHOULD BE EXERCISED WHEN WORKING IN THE VICINITY OF ALL UTILITY SERVICES.

NOTES

- 1. ALL DIMENSIONS ARE IN METRES UNLESS SPECIFIED
- 2. PROPERTY ADJUSTMENT PLANS ARE BASED UPON DESIGN DOCUMENTATION SUPPORTING A DEVELOPMENT APPLICATION. THEY ARE SUBJECT TO CHANGE DURING CONSTRUCTION CERTIFICATE DESIGN WHERE ANY CONDITIONS OF CONSENT OR AUTHORITY DIRECTIONS WILL NEED TO BE ADDRESSED.
- 3. EXISTING DRIVEWAYS IMPACTED BY DESIGN WILL BE RECONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL BUILDING DEVELOPMENT DESIGN GUIDELINES FOR **ENGINEERING WORKS AND ENGINEERING CONSTRUCTION** SPECIFICATION FOR CIVIL WORKS.
- 4. PROPERTY ACQUISITION BOUNDARIES ARE SUBJECT TO CHANGE DURING CONSTRUCTION DESIGN.
- ALL FENCES TO BE REPLACED ARE TO MATCH EXISTING.
 PROPERTY UTILITY ADJUSTMENTS TO BE UNDERTAKEN DURING DETAILED DESIGN.

GENERAL LEGEND

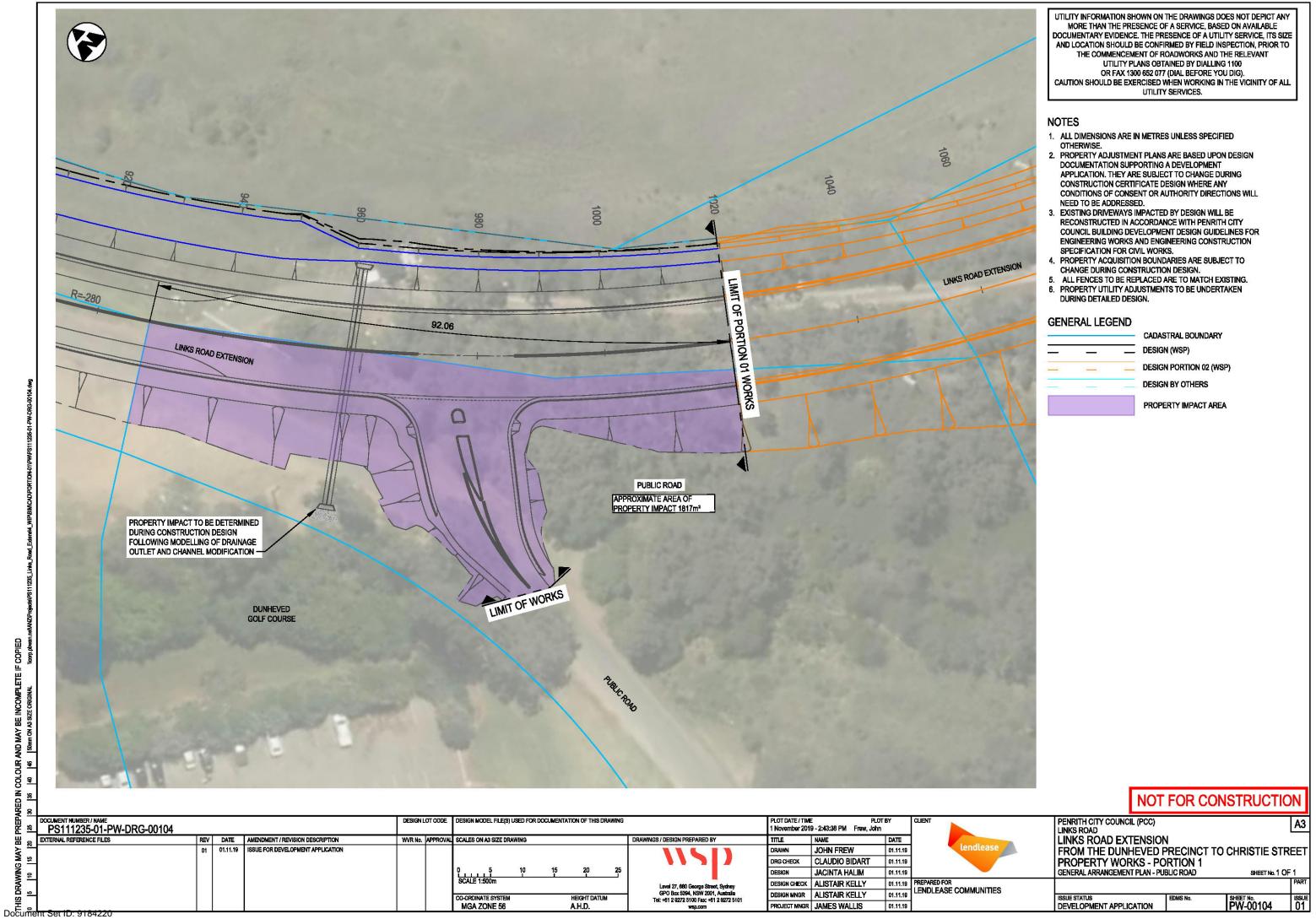


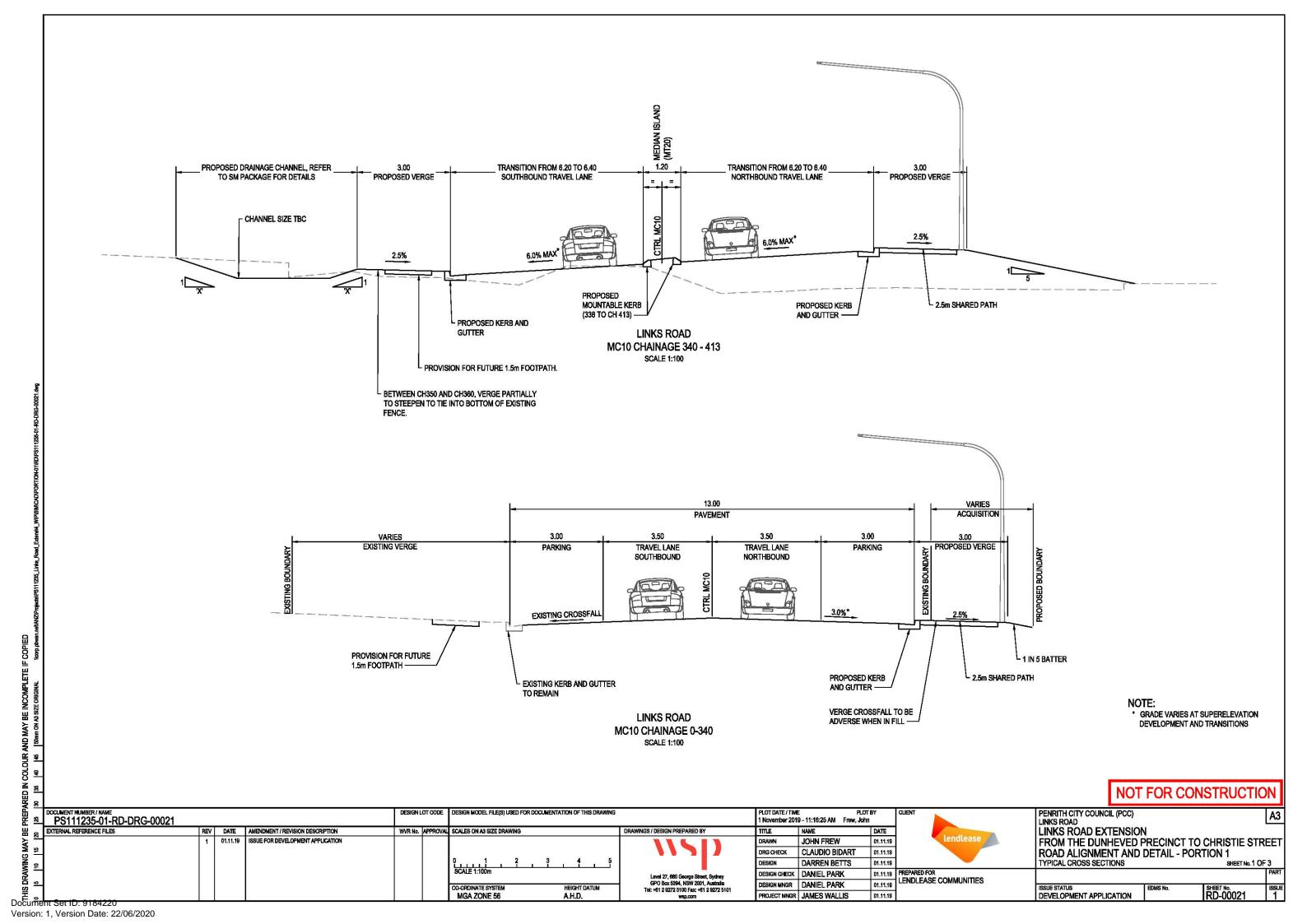


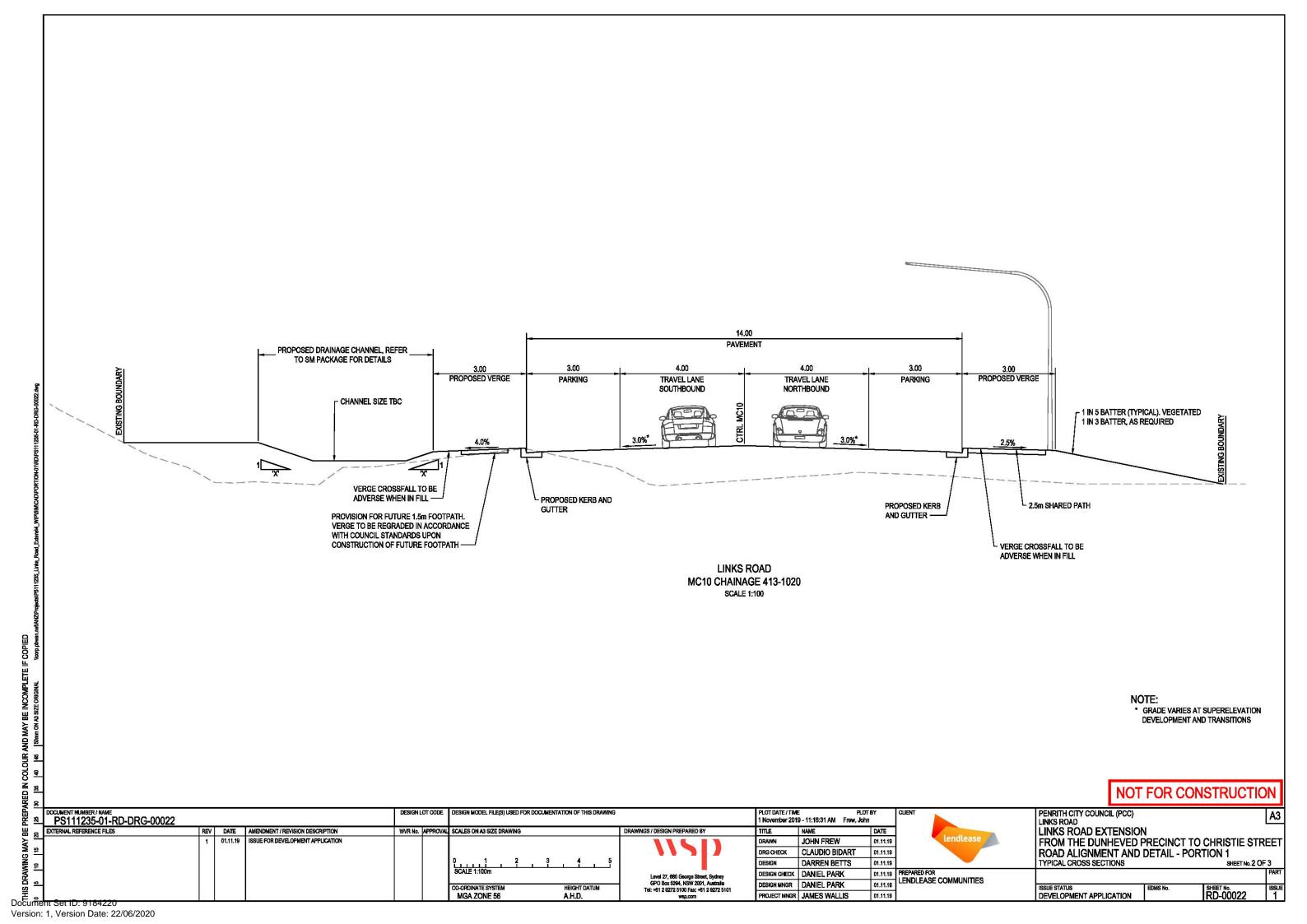
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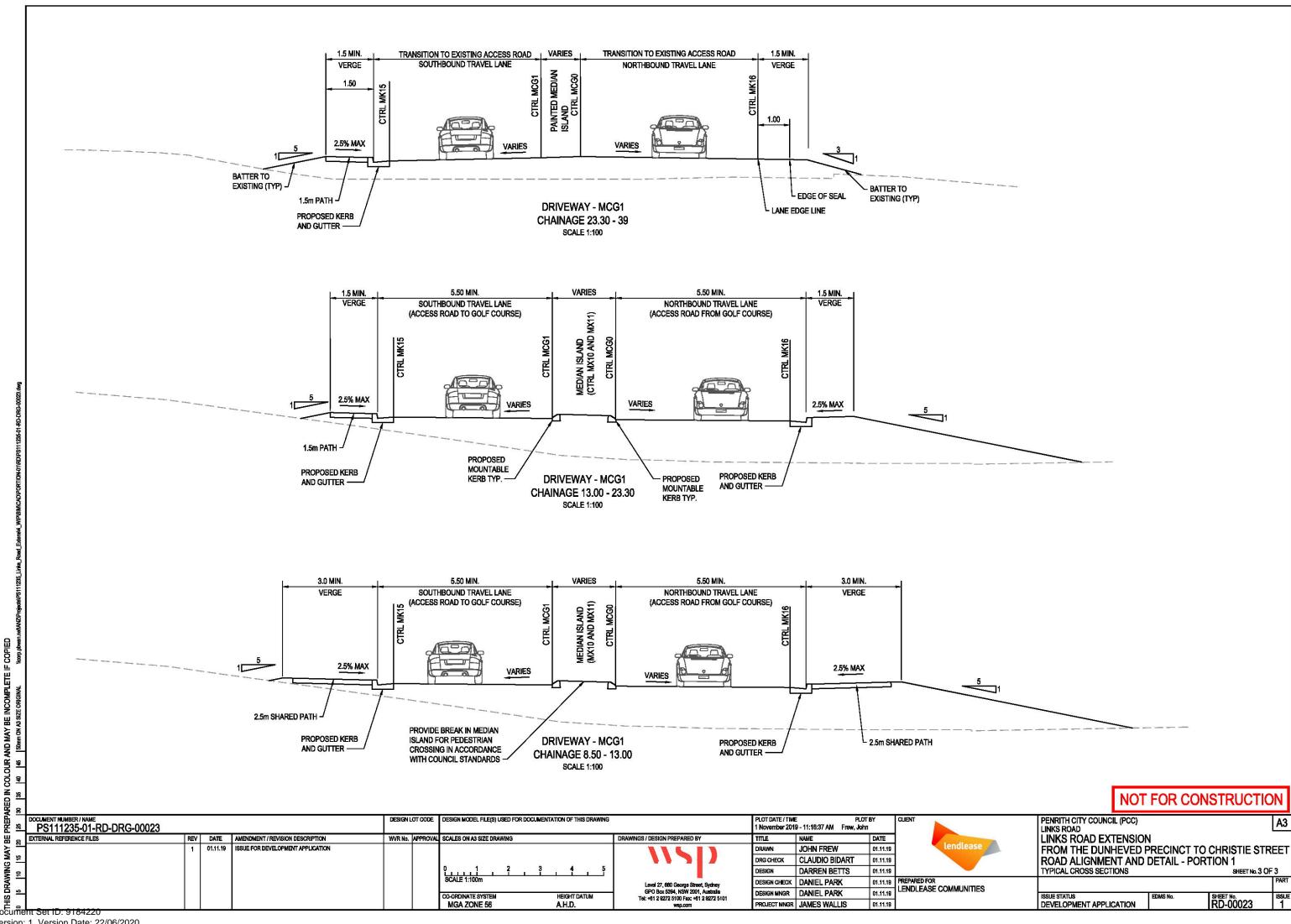
PENRITH CITY COUNCIL (PCC)

PLOT DATE / TIME PLOT BY 1 November 2019 - 9:33:08 AM Frew, John PS111235-01-PW-DRG-00103 LINKS ROAD EXTENSION XTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET 01.11.19 CLAUDIO BIDART **PROPERTY WORKS - PORTION 1** DRG CHECK 01.11.19 JACINTA HALIM GENERAL ARRANGEMENT PLAN - L1/DP31908 SHEET No. 1 OF 1 01.11.19 ESIGN CHECK ALISTAIR KELLY 01.11.19 ENDLEASE COMMUNITIES ESIGN MNGR ALISTAIR KELLY 01.11.19 SHEET No. PW-00103 DEVELOPMENT APPLICATION MGA ZONE 56 A.H.D. PROJECT MNGR JAMES WALLIS 01.11.19 Document Set ID: 9184220









CONTROL LINE MC10 - LINKS ROAD

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	292929.694	6264629.581	20.085	231°15′15.57"	LINE		0.189
TC	0.189	292929.546	6264629.462	20.085	231°15'15.57"	ARC	-350.000	30.492
СТ	30.681	292906.625	6264609.368	20.052	226°15'45.99"	LINE		308.872
TC	339.552	292683.460	6264395.829	21.170	226°15'45.99"	ARC	-38.800	62.931
СТ	402.483	292683.658	6264339.573	20.354	133°20'00.00"	LINE		52.421
TC	454.904	292721.788	6264303.599	20.582	133°20'00.00"	ARC	185.000	123.322
СТ	578.226	292777.814	6264196.294	20.790	171°31'37.00"	LINE		176.363
TC	754.589	292803.800	6264021.856	21.421	171°31'37.00"	ARC	-280.000	326.168
СТ	1080.757	293009.296	6263792.381	23.166	104°47'01.92"	LINE		48.683
TC	1129.440	293056.367	6263779.959	23.426	104°47'01.92"	ARC	220.000	178.507
СТ	1307.947	293193.152	6263672.981	23.772	151°16'23.92"	LINE		94.786
Е	1402.733	293238.709	6263589.861	23.536	151°16'23.92"			

CONTROL LINE MCG0 - GOLF COURSE ACCESS ROAD

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	292913.501	6263838.545	22.593	202°03'11.09"	LINE		17.539
TC	17.539	292906.916	6263822.289	21.998	202°03'11.09"	ARC	-40.000	21.265
Е	38.804	292904.419	6263801.423	20.411	171°35'37.88"			

CONTROL LINE MCG1 - GOLF COURSE ACCESS ROAD

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	292915.162	6263837.318	22.599	202°03'11.09"	LINE		23.149
TC	23.149	292906.470	6263815.863	21.382	202°03'11.09"	ARC	-30.000	15.948
Е	39.097	292904.598	6263800.213	20.409	171°35'37.88"			

CONTROL LINE MD10 - DRIVEWAY

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	292665.118	6264374.077	21.135	248°29'40.74"	LINE		13.450
TC	13.450	292652.604	6264369.147	20.734	248°29'40.74"	ARC	-20.000	7.737
СТ	21.187	292646.126	6264365.005	20.283	226°19'45.27"	LINE		10.654
Е	31.842	292638.419	6264357.649	20.172	226°19'45.27"			

CONTROL LINE MD20 - DRIVEWAY

	PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
	S	0.000	292672.692	6264341.980	20.745	262°47'16.80"	LINE		9.059
[Е	9.059	292663.705	6264340.843	20.395	262°47'16.80"			

CONTROL LINE MK15 - KERB

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	292923.621	6263823.540	22.488	208°10'00.00"	ARC	-6.000	9.958
СТ	9.958	292915.041	6263821.355	22.225	208°10'00.00"	LINE		11.881
TC	21.839	292909.433	6263810.881	20.844	208°10'00.00"	ARC	-20.000	12.735
E	34.574	292907.275	6263798.548	20.312	171°41'02.76"			

CONTROL LINE MK16 - KERB

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	292901.685	6263801.545	20.368	346°11'52.53"	LINE		7.941
TC	7.941	292899.791	6263809.256	20.595	346°11'52.53"	ARC	20.000	12.516
СТ	20.456	292900.677	6263821.537	21.669	22°03'11.09"	LINE		9.301
TC	29.757	292904.169	6263830.157	22.256	22°03'11.09"	ARC	-8.000	10.247
E	40.004	292901.752	6263839.407	22.346	308°39'51.13"			

CONTROL LINE MT20 - MEDIAN ISLAND

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	292690.520	6264332.274	20.310	313°20'00.00"	LINE		10.000
TC	10.000	292683.247	6264339.136	20.390	313°20'00.00"	ARC	39.400	63.904
СТ	73.904	292683.045	6264396.262	21.206	46°15'45.99"	LINE		0.500
TC	74.404	292683.407	6264396.608	21.204	46°15'45.99"	ARC	0.600	1.885
СТ	76.289	292684.236	6264395.741	21.151	226°15'45.99"	LINE		0.500
TC	76.789	292683.875	6264395.395	21.134	226°15'45.99"	ARC	-38.200	61.958
СТ	138.746	292684.070	6264340.009	20.328	133°20'00.00"	LINE		10.000
TC	148.746	292691.344	6264333.147	20.328	133°20'00.00"	ARC	0.600	1.885
Е	150.631	292690.520	6264332.274	20.310	313°20'00.00"			

CONTROL LINE MX10 - MEDIAN ISLAND

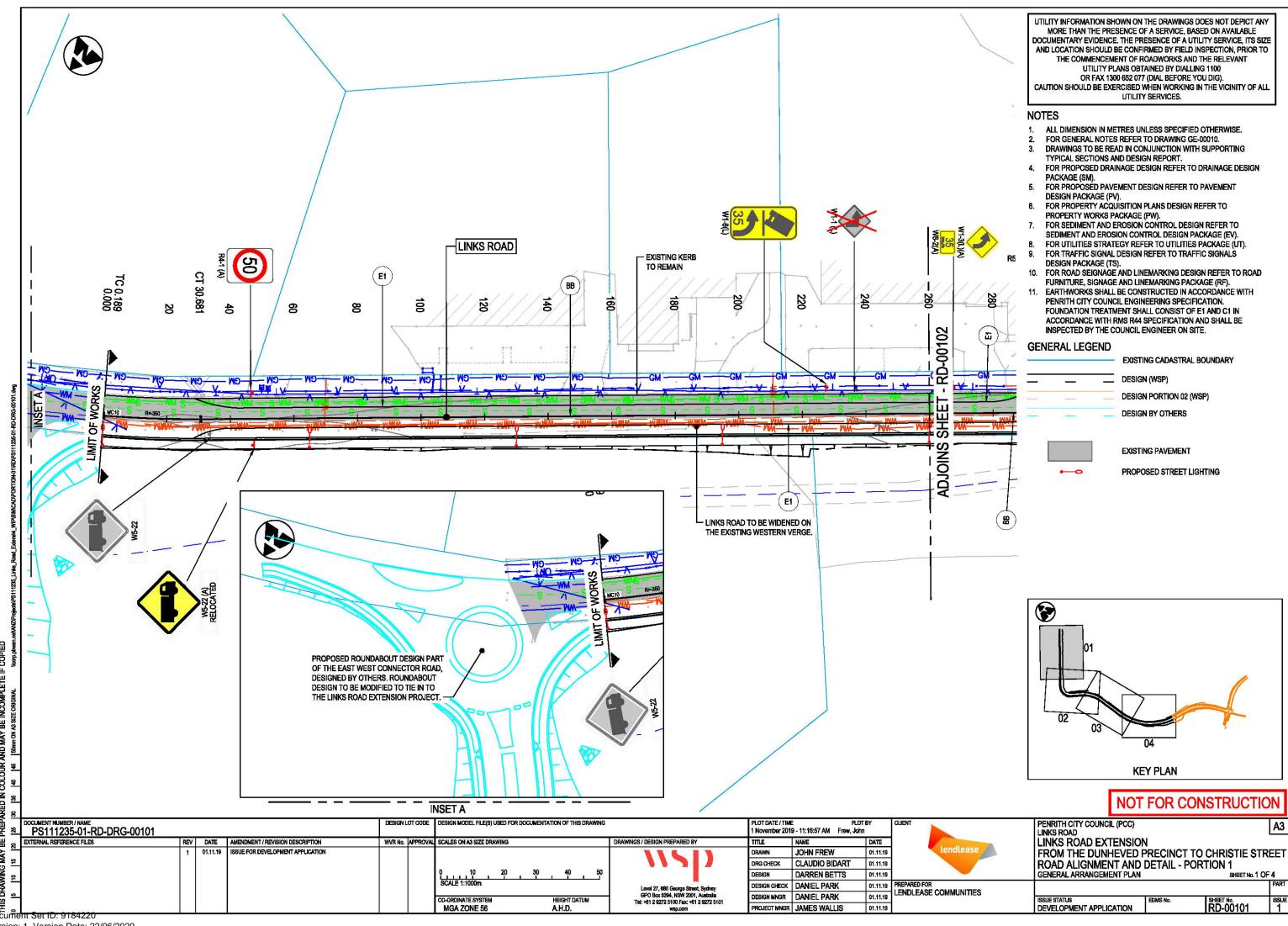
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0.000	292911.632	6263828.606	22.332	202°03'11.09"	LINE		1.058
1.058	292911.235	6263827.626	22.304	202°03'11.09"	ARC	0.300	0.527
1.585	292910.795	6263827.486	22.292	302°39'37.86"	LINE		1.424
3.009	292909.596	6263828.254	22.287	302°39'37.87"	ARC	0.300	0.416
3.425	292909.480	6263828.619	22.295	22°03'11.09"	LINE		0.796
4.220	292909.779	6263829.357	22.318	22°03'11.09"	ARC	1.000	3.142
7.362	292911.632	6263828.606	22.332	202°03'11.09"			
	0.000 1.058 1.585 3.009 3.425 4.220	0.000 292911.632 1.058 292911.235 1.585 292910.795 3.009 292909.596 3.425 292909.480 4.220 292909.779	0.000 292911.632 6263828.606 1.058 292911.235 6263827.626 1.585 292910.795 6263827.486 3.009 292909.596 6263828.254 3.425 292909.480 6263828.619 4.220 292909.779 6263829.357	0.000 292911.632 6263828.606 22.332 1.058 292911.235 6263827.626 22.304 1.585 292910.795 6263827.486 22.292 3.009 292909.596 6263828.254 22.287 3.425 292909.480 6263828.619 22.295 4.220 292909.779 6263829.357 22.318	0.000 292911.632 6263828.606 22.332 202°03'11.09" 1.058 292911.235 6263827.626 22.304 202°03'11.09" 1.585 292910.795 6263827.486 22.292 302°39'37.86" 3.009 292909.596 6263828.254 22.287 302°39'37.87" 3.425 292909.480 6263828.619 22.295 22°03'11.09" 4.220 292909.779 6263829.357 22.318 22°03'11.09"	0.000 292911.632 6263828.606 22.332 202°03'11.09" LINE 1.058 292911.235 6263827.626 22.304 202°03'11.09" ARC 1.585 292910.795 6263827.486 22.292 302°39'37.86" LINE 3.009 292909.596 6263828.254 22.287 302°39'37.87" ARC 3.425 292909.480 6263828.619 22.295 22°03'11.09" LINE 4.220 292909.779 6263829.357 22.318 22°03'11.09" ARC	0.000 292911.632 6263828.606 22.332 202°03'11.09" LINE 1.058 292911.235 6263827.626 22.304 202°03'11.09" ARC 0.300 1.585 292910.795 6263827.486 22.292 302°39'37.86" LINE 3.009 292909.596 6263828.254 22.287 302°39'37.87" ARC 0.300 3.425 292909.480 6263828.619 22.295 22°03'11.09" LINE 4.220 292909.779 6263829.357 22.318 22°03'11.09" ARC 1.000

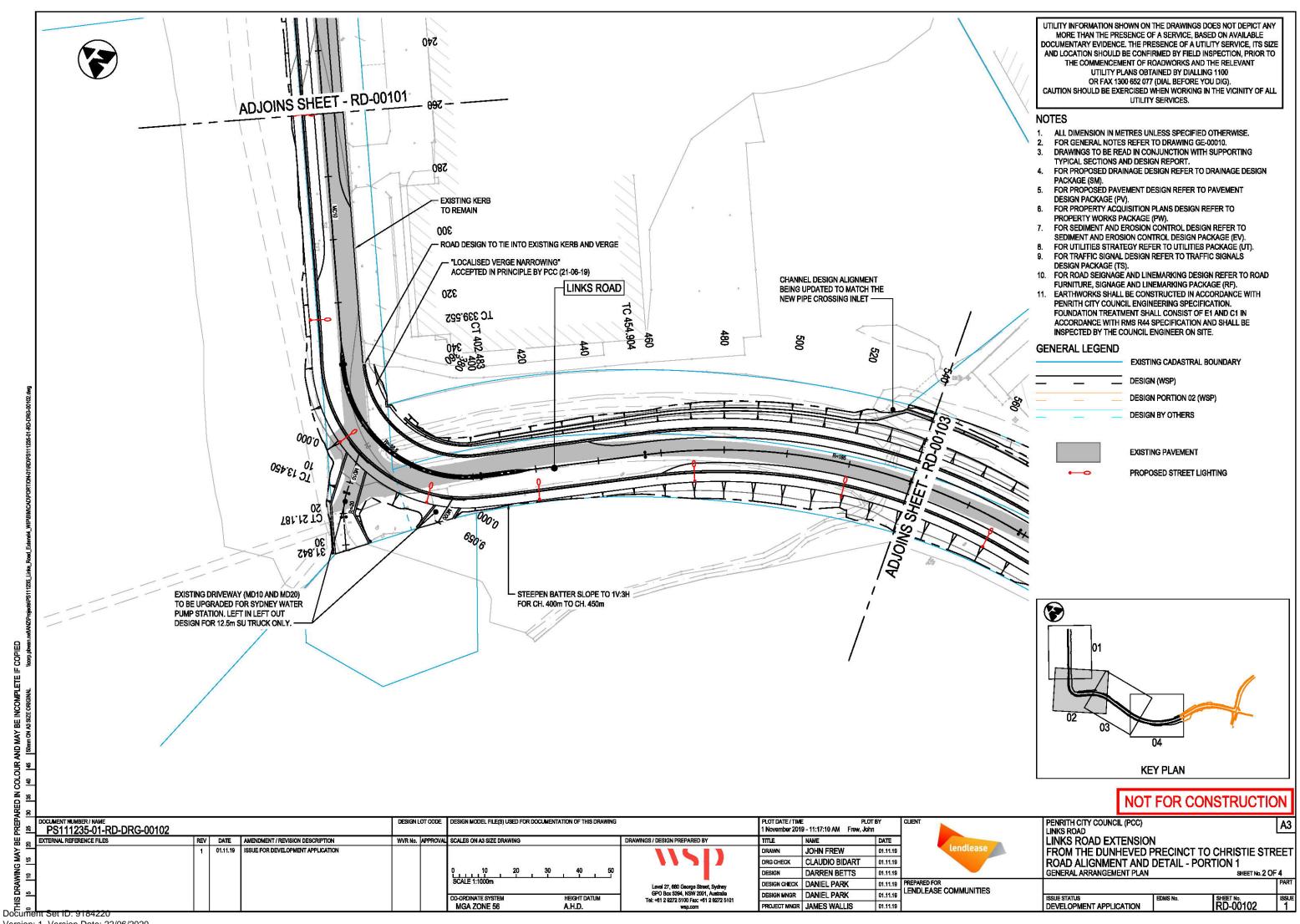
CONTROL LINE MX11 - MEDIAN ISLAND

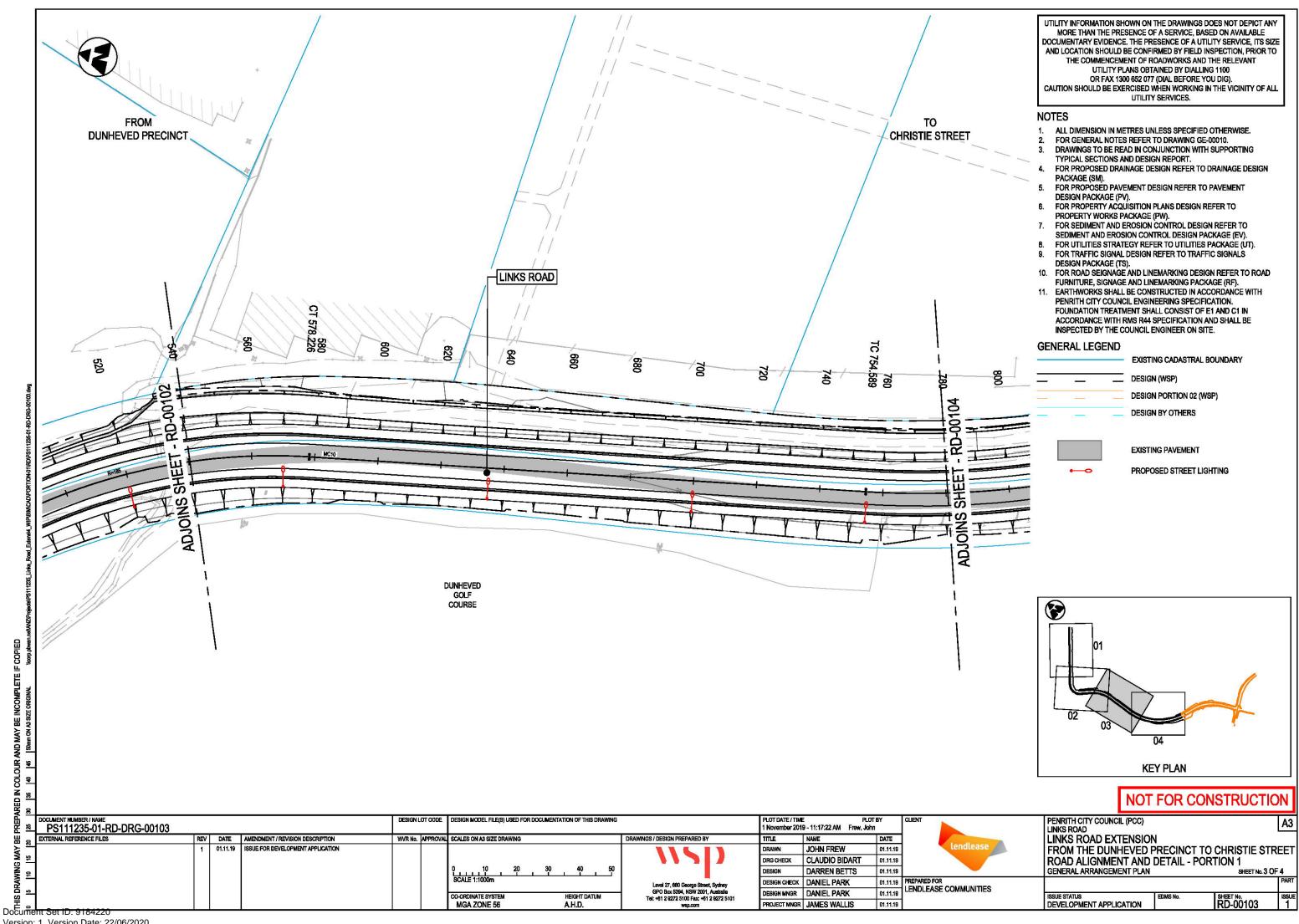
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	292910.242	6263825.174	22.232	202°03'11.09"	LINE		9.897
TC	9.897	292906.526	6263816.001	21.399	202°03'11.09"	ARC	0.300	0.841
CC	10.738	292905.948	6263816.128	21.404	2°40'11.46"	ARC	25.000	8.458
СТ	19.196	292907.750	6263824.350	22.134	22°03'11.09"	LINE		1.962
TC	21.157	292908.487	6263826.168	22.217	22°03'11.09"	ARC	0.300	0.527
CT	21.684	292908.927	6263826.308	22.232	122°39'37.86"	LINE		1.424
TC	23.108	292910.126	6263825.539	22.240	122°39'37.87"	ARC	0.300	0.416
Е	23.524	292910.242	6263825.174	22.232	202°03'11.09"			-

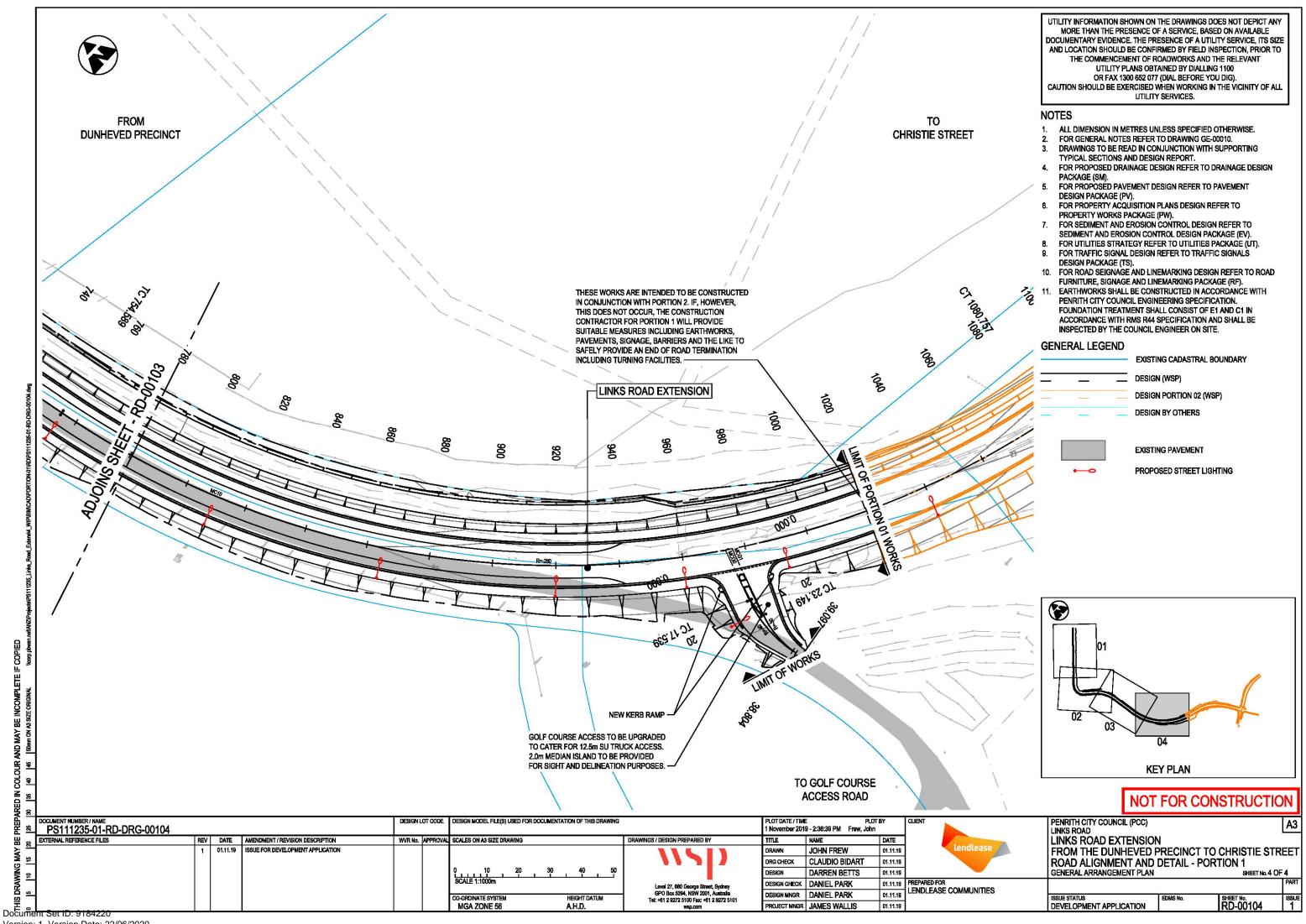
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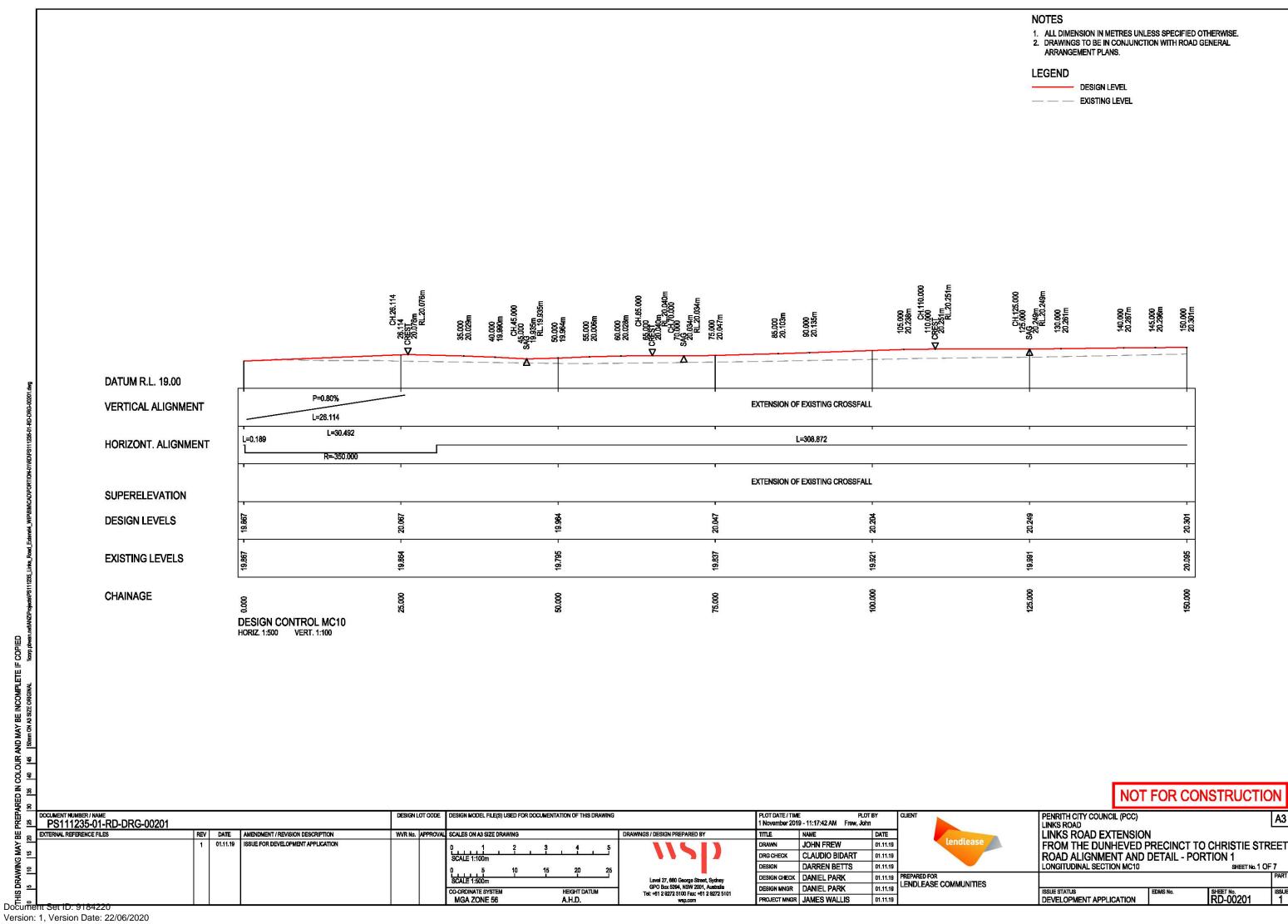
PENRITH CITY COUNCIL (PCC) LINKS ROAD PLOT DATE / TIME PLOT BY 1 November 2019 - 11:16:44 AM Frew, John DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PS111235-01-RD-DRG-00041
EXTERNAL REFERENCE FILES LINKS ROAD EXTENSION
FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET
ROAD ALIGNMENT AND DETAIL - PORTION 1
ALIGNMENT CONTROL SETOUT SCHEDULES
SHEET No. 1 OF 1 REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW 01.11.19 DRG CHECK CLAUDIO BIDART 01.11.19 DARREN BETTS 01.11.19 ESIGN PREPARED FOR LENDLEASE COMMUNITIES DESIGN CHECK | DANIEL PARK 01.11.19 Level 27, 680 George Street, Sydney GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com DESIGN MINGR DANIEL PARK 01.11.19 HEIGHT DATUM A.H.D. ISSUE STATUS
DEVELOPMENT APPLICATION SHEET No. RD-00041 MGA ZONE 56 PROJECT MNGR JAMES WALLIS 01.11.19

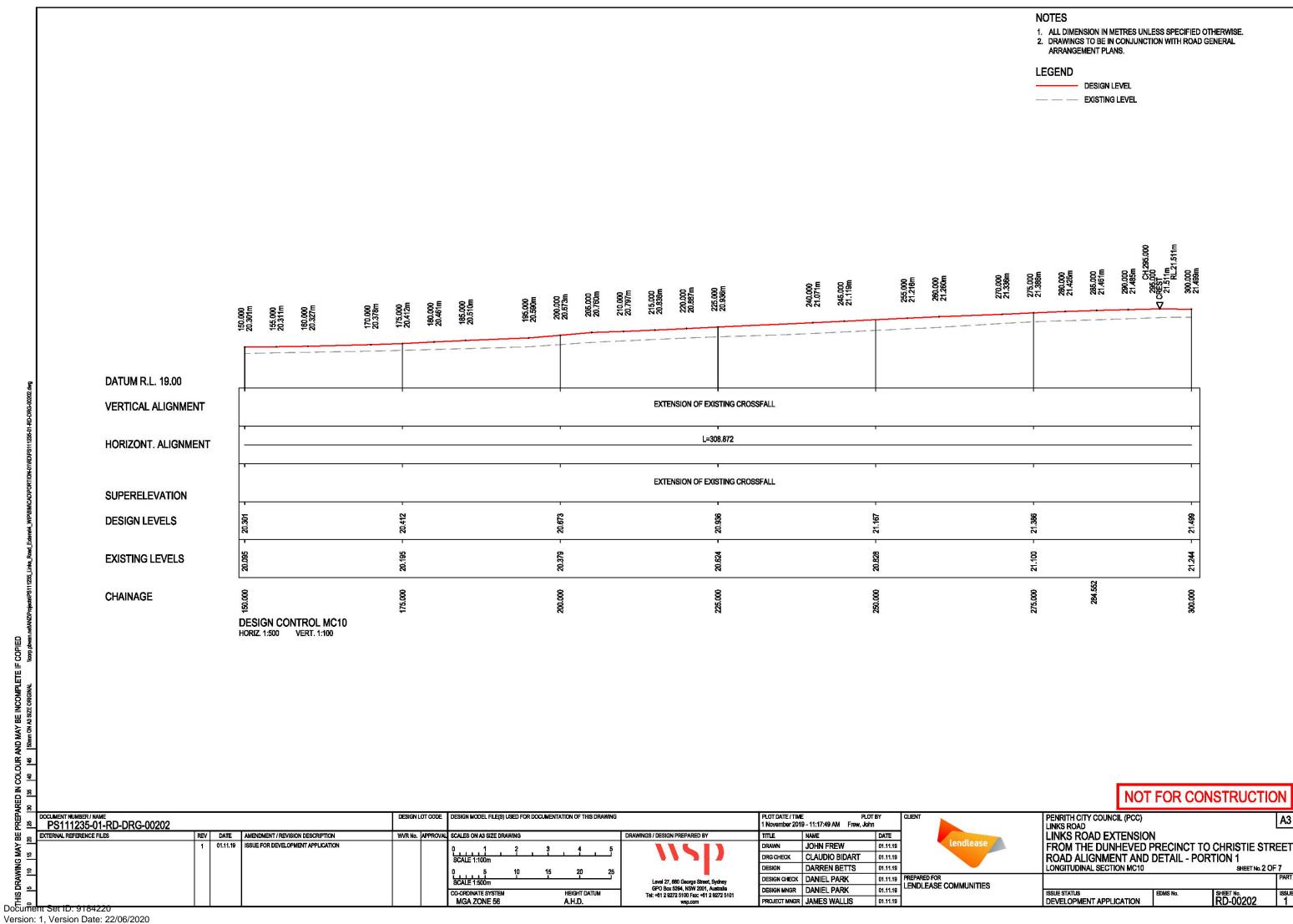


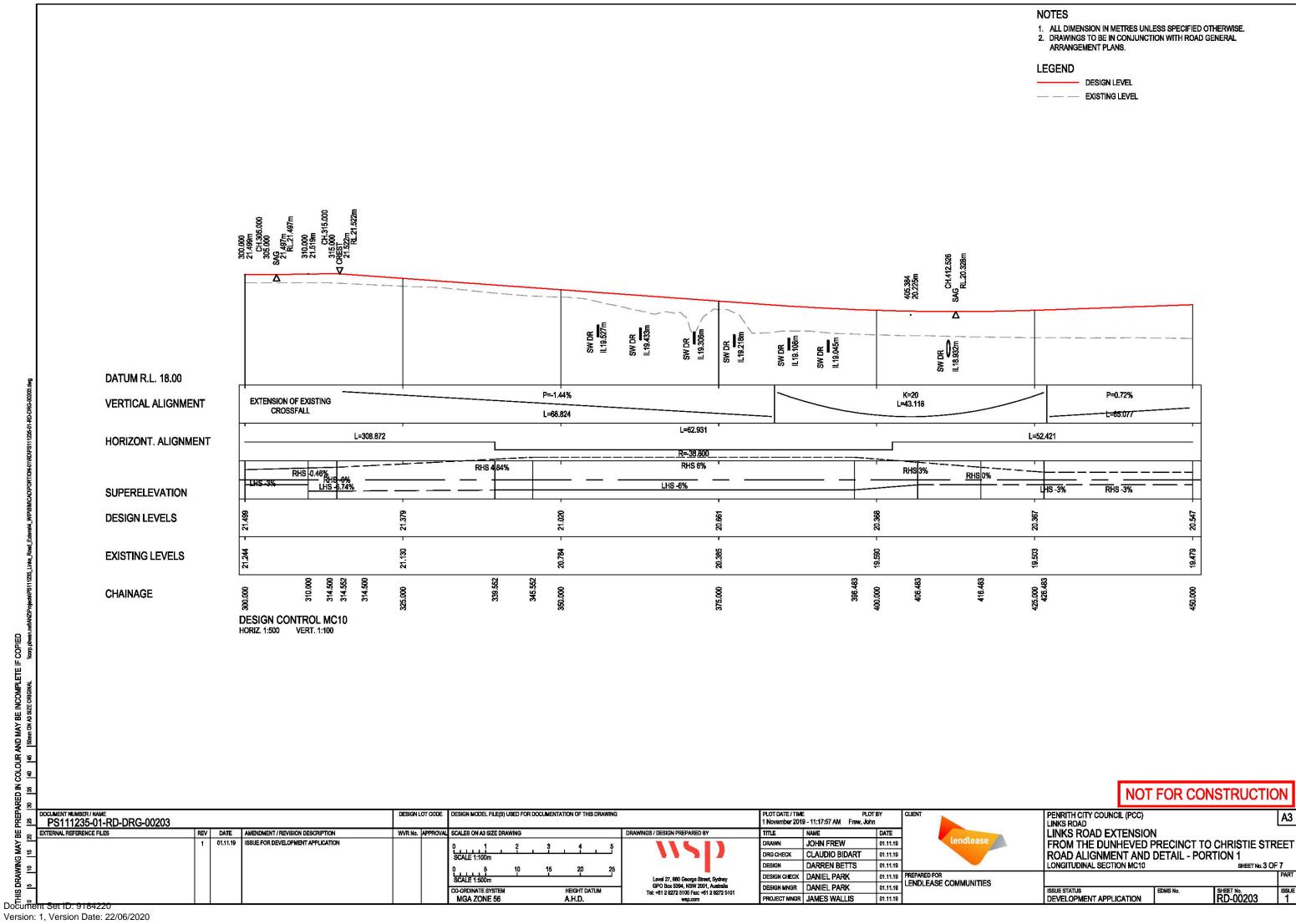


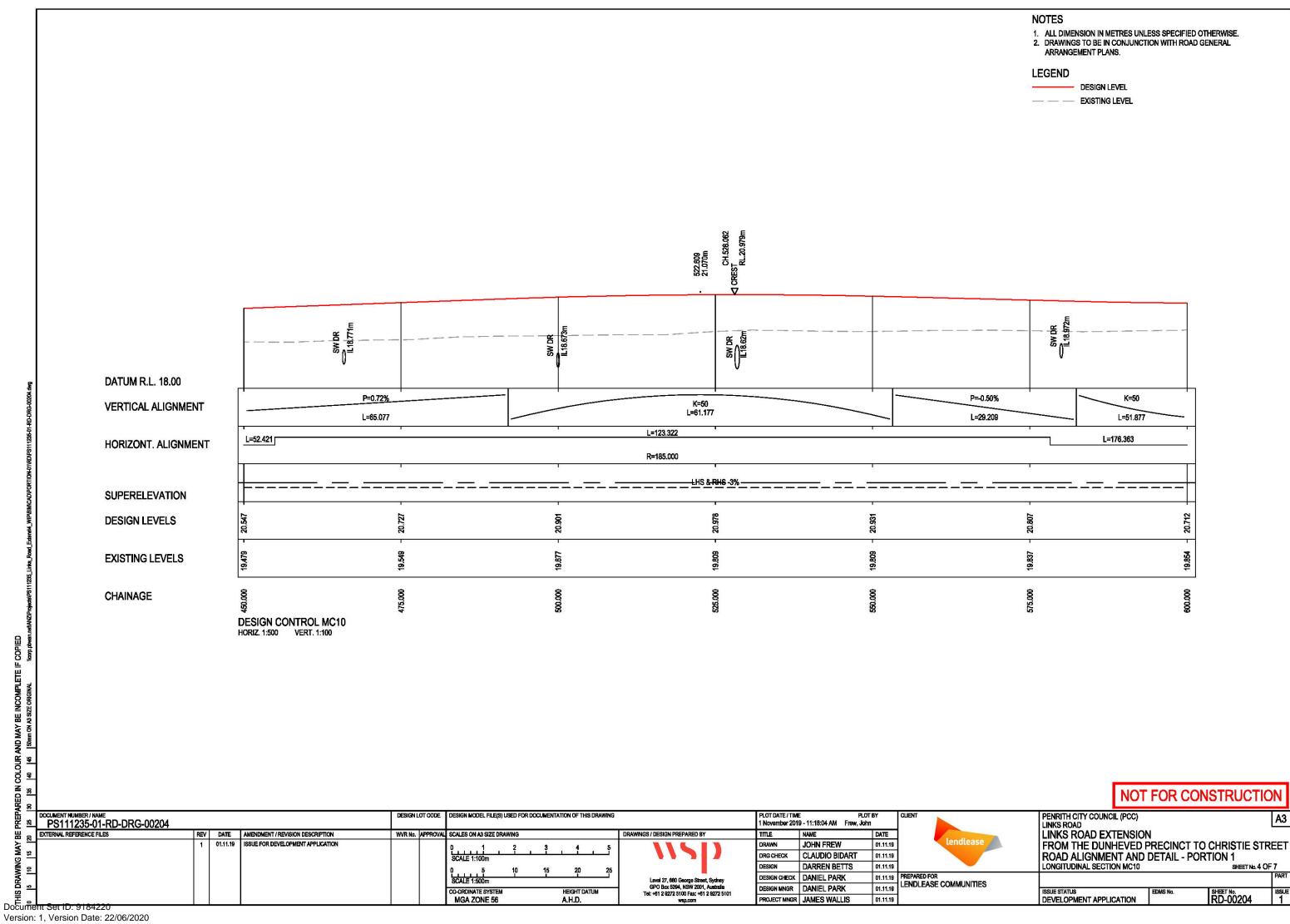


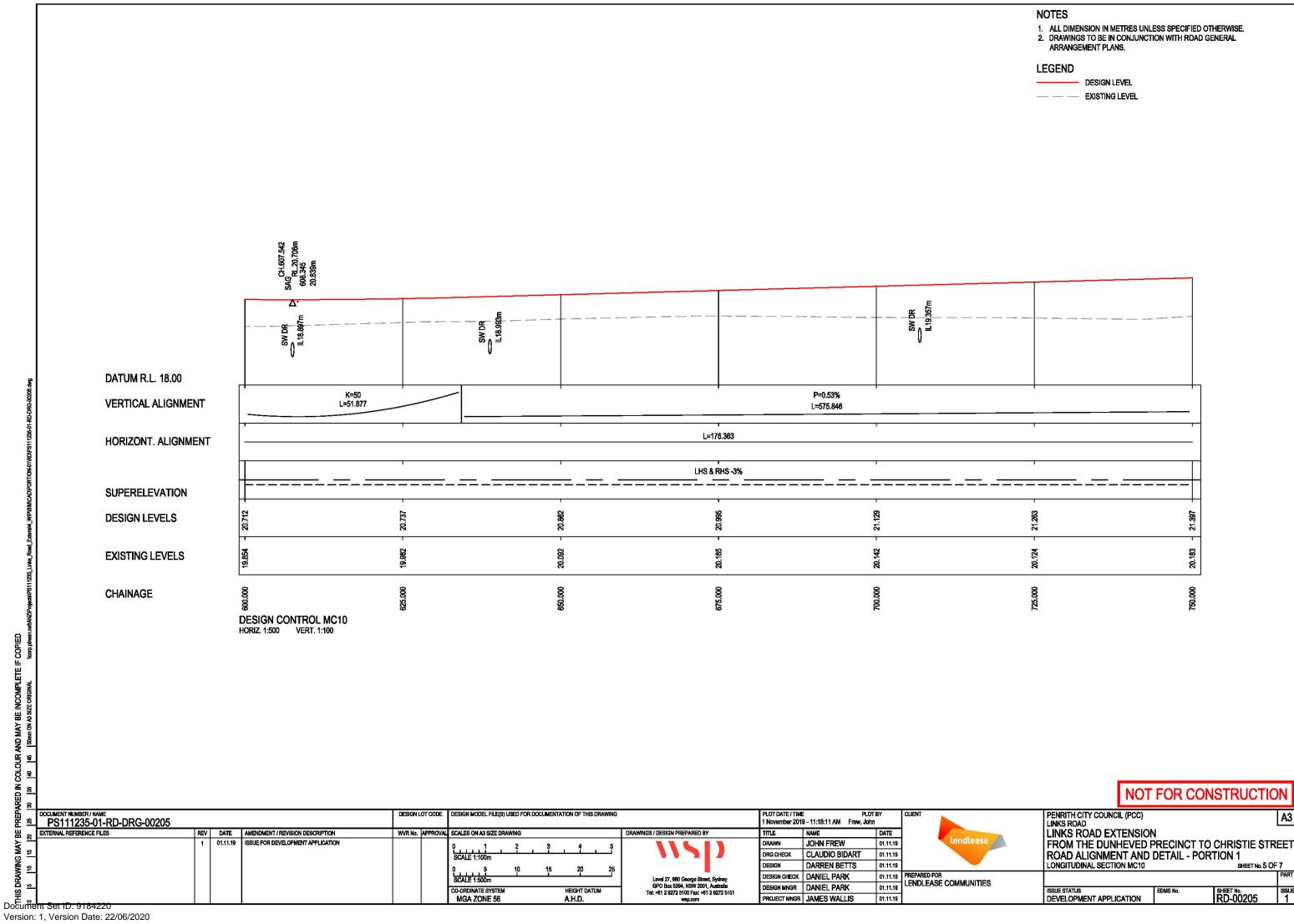






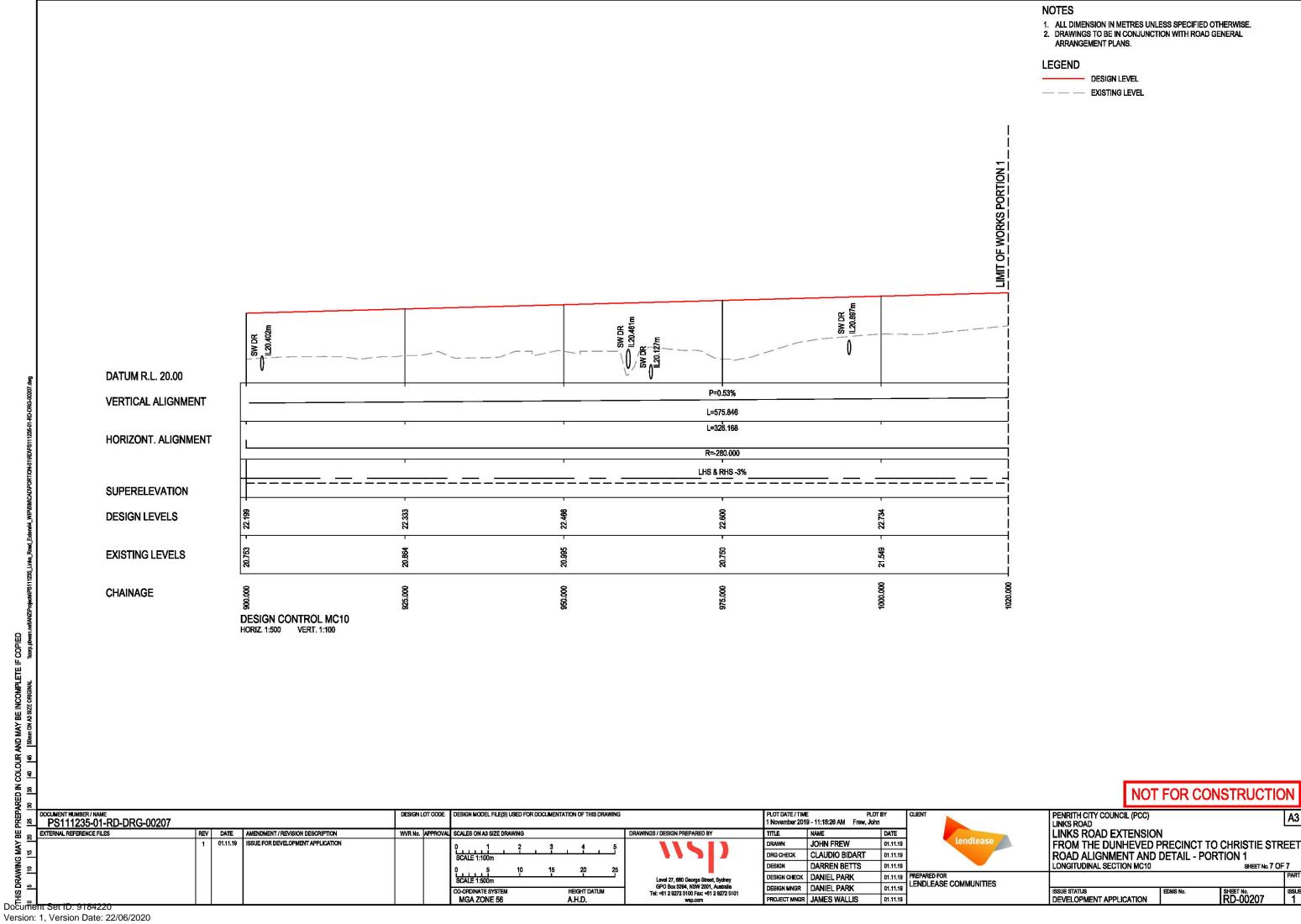






 ALL DIMENSION IN METRES UNLESS SPECIFIED OTHERWISE.
 DRAWINGS TO BE IN CONJUNCTION WITH ROAD GENERAL ARRANGEMENT PLANS. **LEGEND** - - EXISTING LEVEL **DATUM R.L. 19.00** P=0.53% **VERTICAL ALIGNMENT** L=575.846 L=326.168 L=176.363 HORIZONT. ALIGNMENT **SUPERELEVATION** 21.530 21.664 DESIGN LEVELS **EXISTING LEVELS** CHAINAGE **DESIGN CONTROL MC10** HORIZ. 1:500 VERT. 1:100 NOT FOR CONSTRUCTION PENRITH CITY COUNCIL (PCC) LINKS ROAD PLOT DATE / TIME PLOT BY 1 November 2019 - 11:18:18 AM Frew, John DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PS111235-01-RD-DRG-00206 LINKS ROAD EXTENSION REV DATE AMENDMENT / REVISION DESCRIPTION DRAWINGS / DESIGN PREPARED BY FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET ROAD ALIGNMENT AND DETAIL - PORTION 1 LONGITUDINAL SECTION MC10 SHEET No. 6 OF 7 01.11.19 ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW CLAUDIO BIDART DRG CHECK 01.11.19 DARREN BETTS 01.11.19 PREPARED FOR LENDLEASE COMMUNITIES SCALE 1:500m DESIGN CHECK DANIEL PARK 01.11.19 DESIGN MINGR DANIEL PARK 01.11.19 CO-ORDINATE SYSTEM SHEET No. RD-00206 A.H.D. PROJECT MNGR JAMES WALLIS DEVELOPMENT APPLICATION MGA ZONE 56 01.11.19

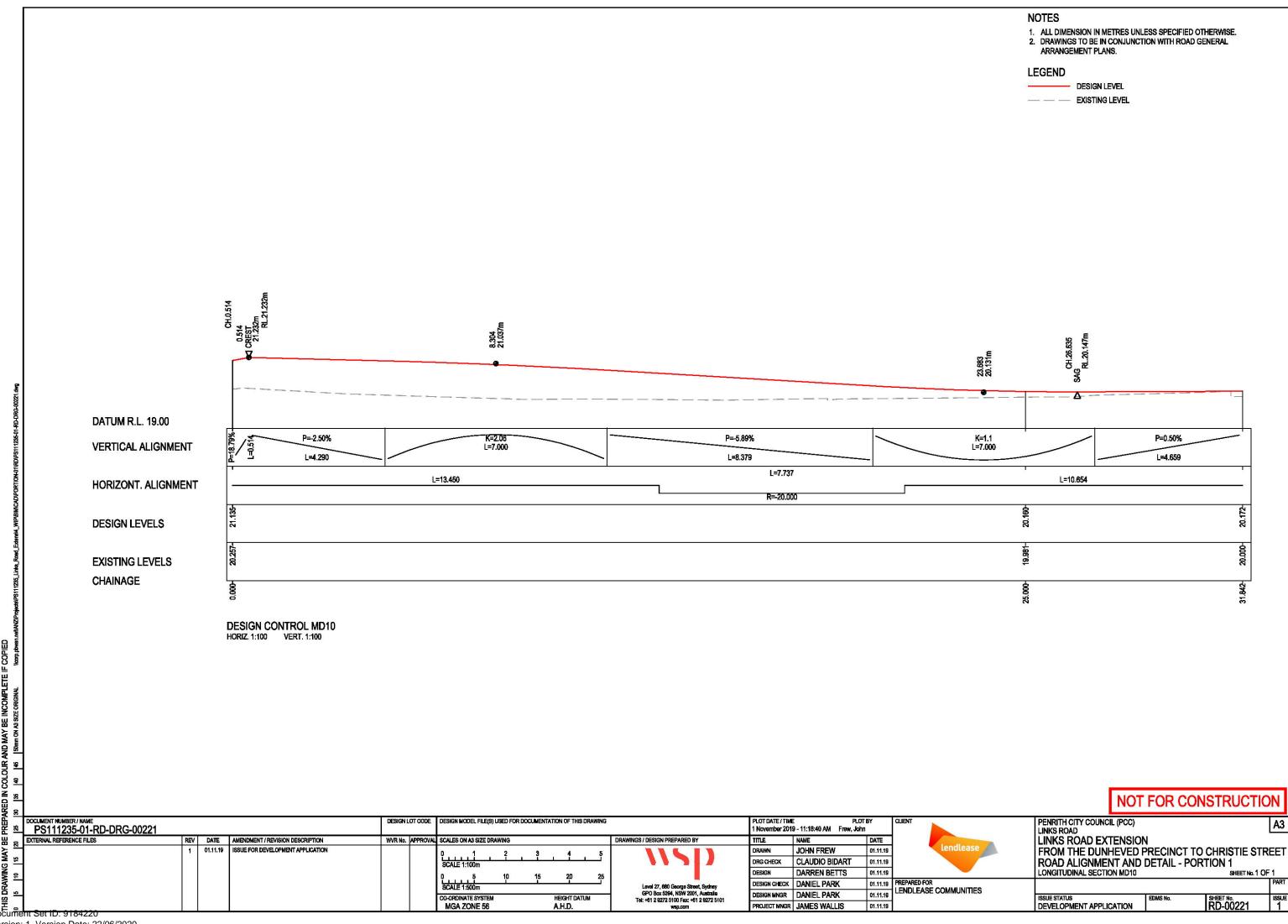
Version: 1, Version Date: 22/06/2020



 ALL DIMENSION IN METRES UNLESS SPECIFIED OTHERWISE.
 DRAWINGS TO BE IN CONJUNCTION WITH ROAD GENERAL ARRANGEMENT PLANS. **LEGEND** DESIGN LEVEL — — EXISTING LEVEL INTERSECTION ROAD MC10 TIE IN WITH EXISTING **DATUM R.L. 20.00** K=1.32 L=15.000 **VERTICAL ALIGNMENT** L=15.948 HORIZONT. ALIGNMENT R=-30.000 **DESIGN LEVELS EXISTING LEVELS** CHAINAGE **DESIGN CONTROL MCG1** HORIZ. 1:500 VERT. 1:100 NOT FOR CONSTRUCTION PENRITH CITY COUNCIL (PCC) LINKS ROAD PLOT DATE / TIME PLOT BY 1 November 2019 - 11:18:33 AM Frew, John DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PS111235-01-RD-DRG-00211 LINKS ROAD EXTENSION EXTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET ROAD ALIGNMENT AND DETAIL - PORTION 1 ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW 01.11.19 CLAUDIO BIDART DRG CHECK 01.11.19 DARREN BETTS LONGITUDINAL SECTION MCG1 SHEET No. 1 OF 1 ESIGN 01.11.19 PREPARED FOR LENDLEASE COMMUNITIES SCALE 1:500m DESIGN CHECK DANIEL PARK 01.11.19 DESIGN MINGR DANIEL PARK 01.11.19 HEIGHT DATUM A.H.D. CO-ORDINATE SYSTE SHEET No. RD-00211 DEVELOPMENT APPLICATION PROJECT MNGR JAMES WALLIS MGA ZONE 56 01.11.19

Version: 1, Version Date: 22/06/2020

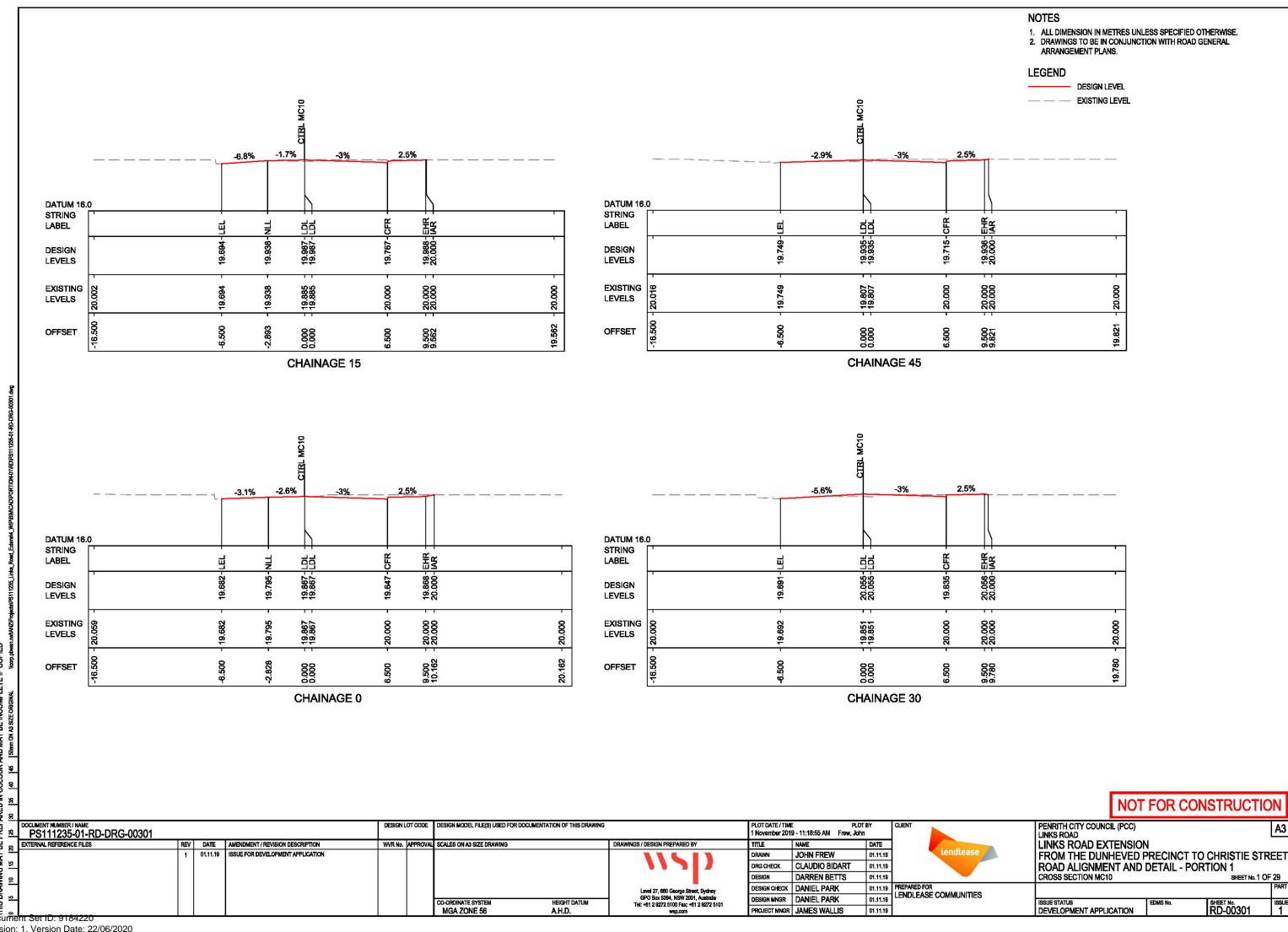
Document Set ID: 9184220

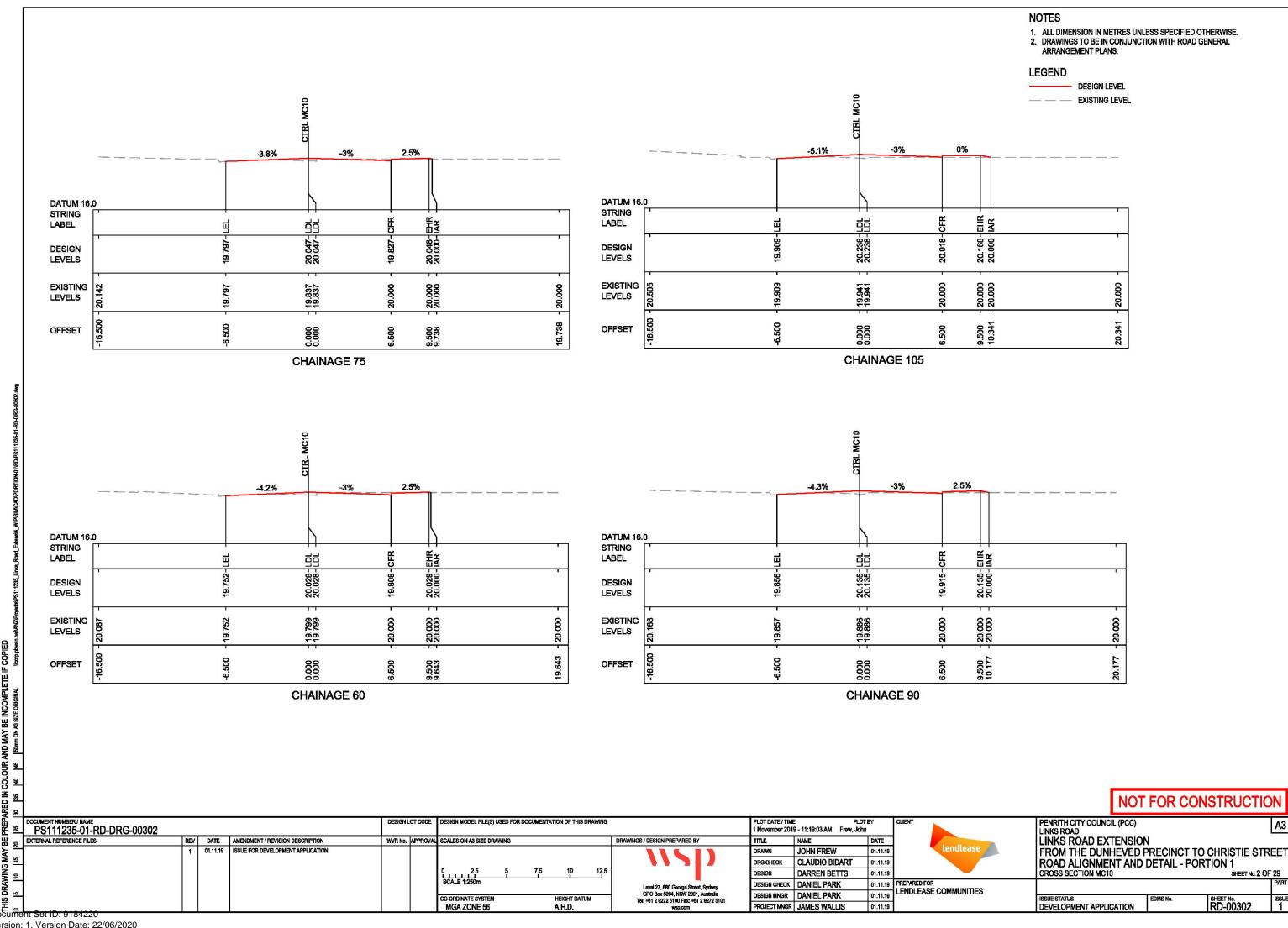


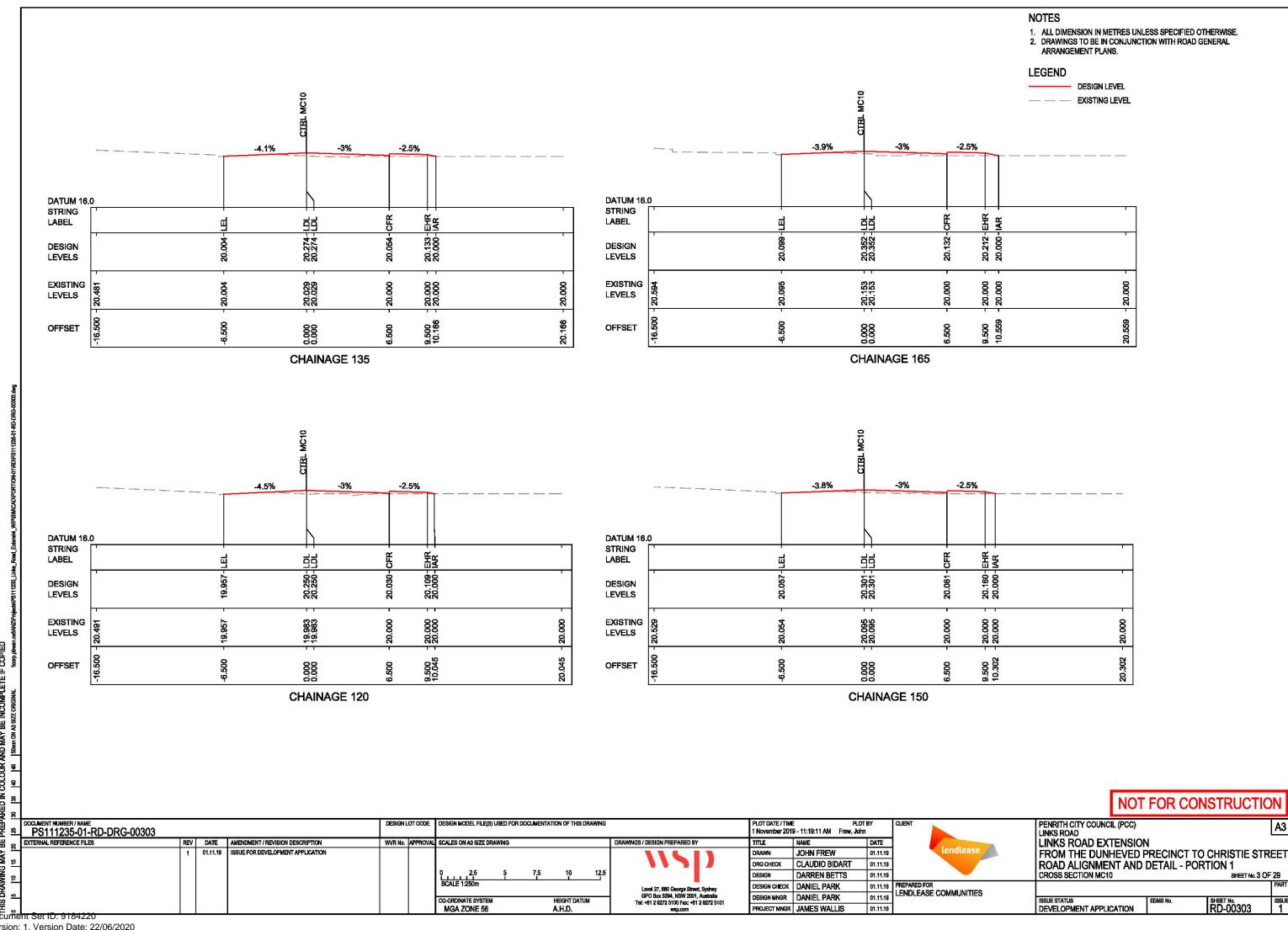
 ALL DIMENSION IN METRES UNLESS SPECIFIED OTHERWISE.
 DRAWINGS TO BE IN CONJUNCTION WITH ROAD GENERAL ARRANGEMENT PLANS. **LEGEND** DESIGN LEVEL — — EXISTING LEVEL **DATUM R.L. 20.00** K=0.38 L=2.000 **VERTICAL ALIGNMENT** L=2.764 L=9.059 HORIZONT. ALIGNMENT **DESIGN LEVELS EXISTING LEVELS** CHAINAGE **DESIGN CONTROL MD20** HORIZ. 1:100 VERT. 1:100

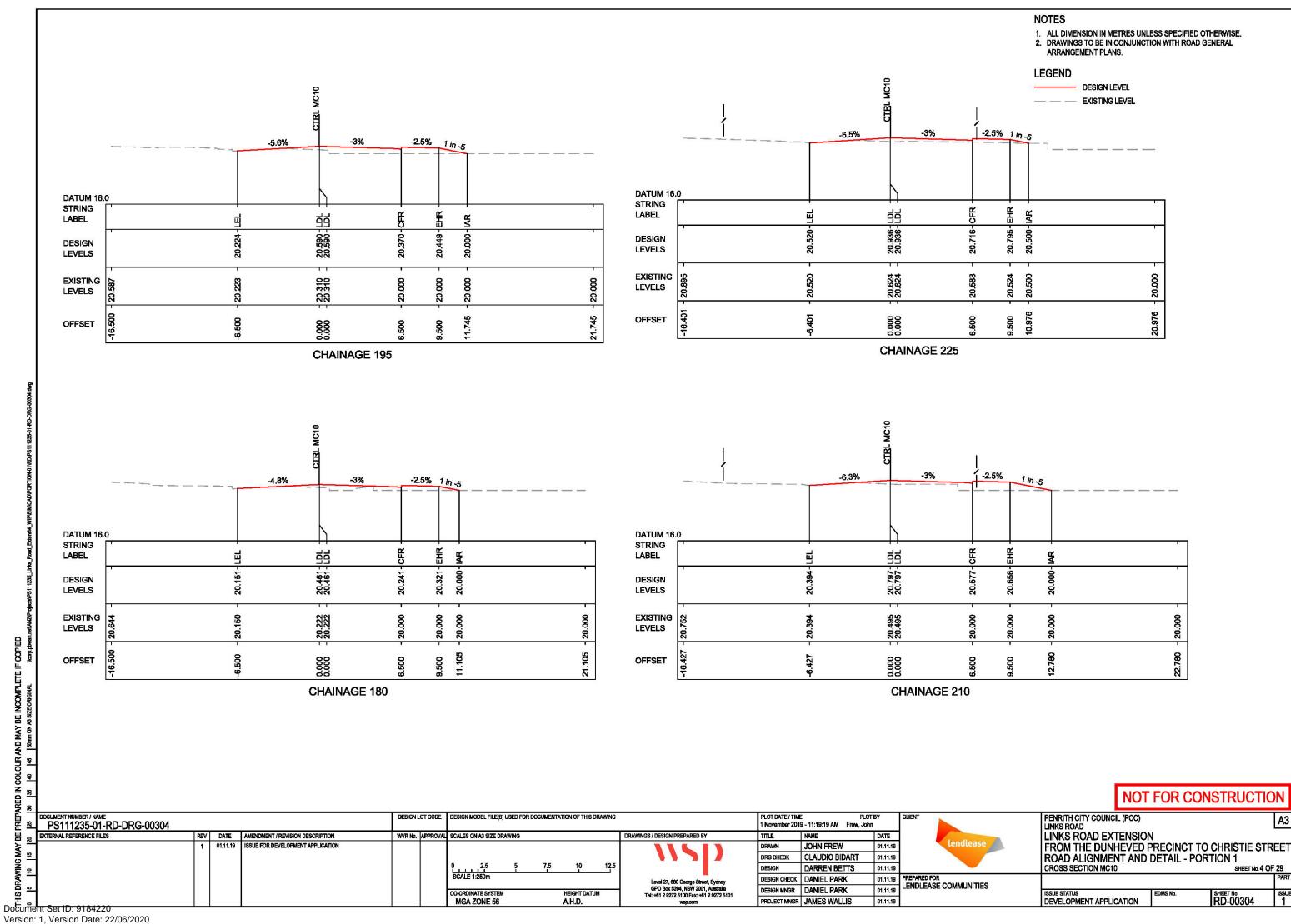
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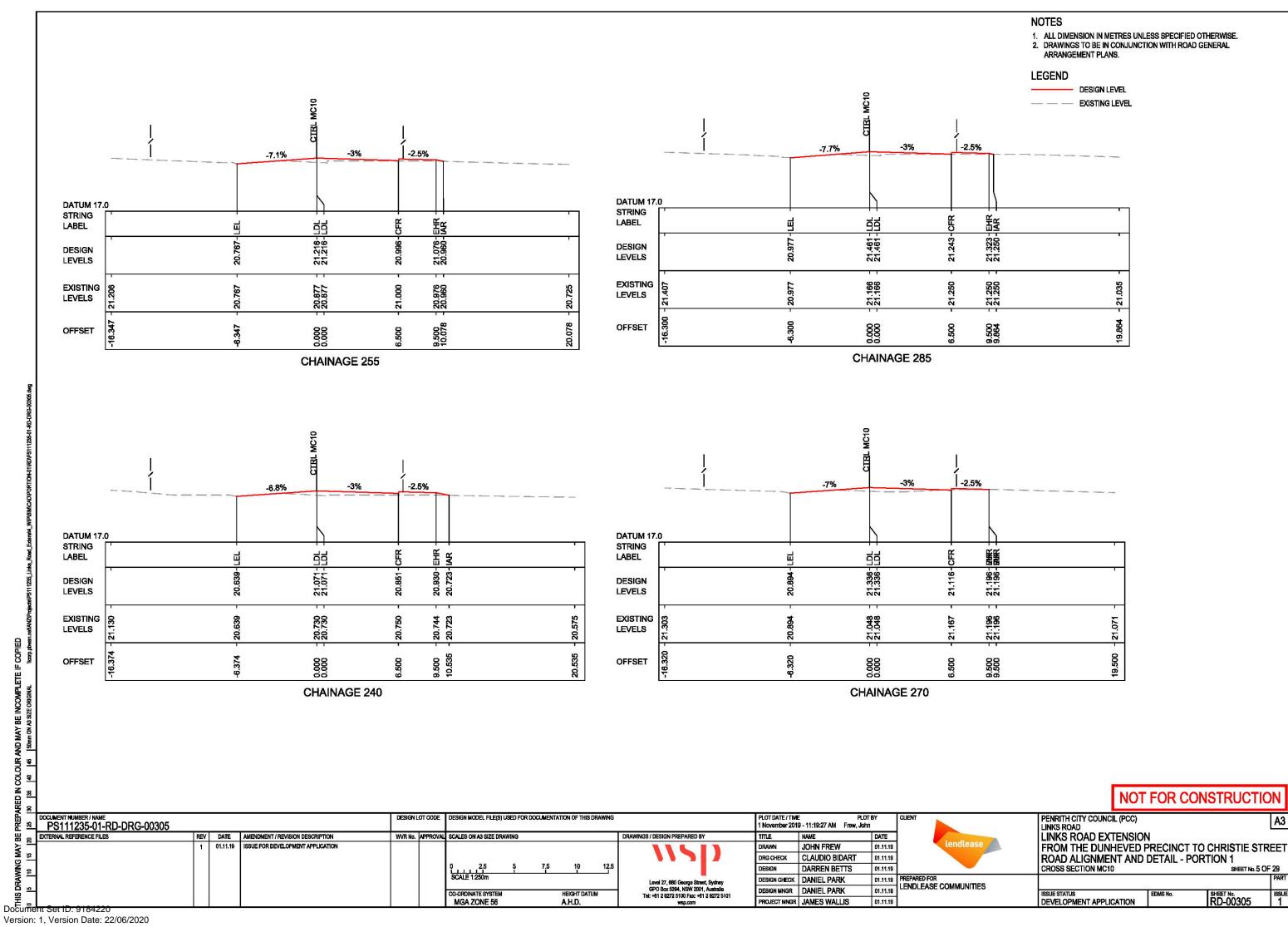
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EXTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION LINKS ROAD EXTENSION DRAWINGS / DESIGN PREPARED BY FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET ROAD ALIGNMENT AND DETAIL - PORTION 1 ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW 01.11.19 DRG CHECK CLAUDIO BIDART 01.11.19 DARREN BETTS 01.11.19 LONGITUDINAL SECTION MD20 ESIGN PREPARED FOR LENDLEASE COMMUNITIES SCALE 1:100m DESIGN CHECK DANIEL PARK 01.11.19 DESIGN MINGR DANIEL PARK 01.11.19 HEIGHT DATUM A.H.D. ISSUE STATUS
DEVELOPMENT APPLICATION CO-ORDINATE SYSTEM SHEET No. RD-00231 MGA ZONE 56 PROJECT MNGR JAMES WALLIS 01.11.19

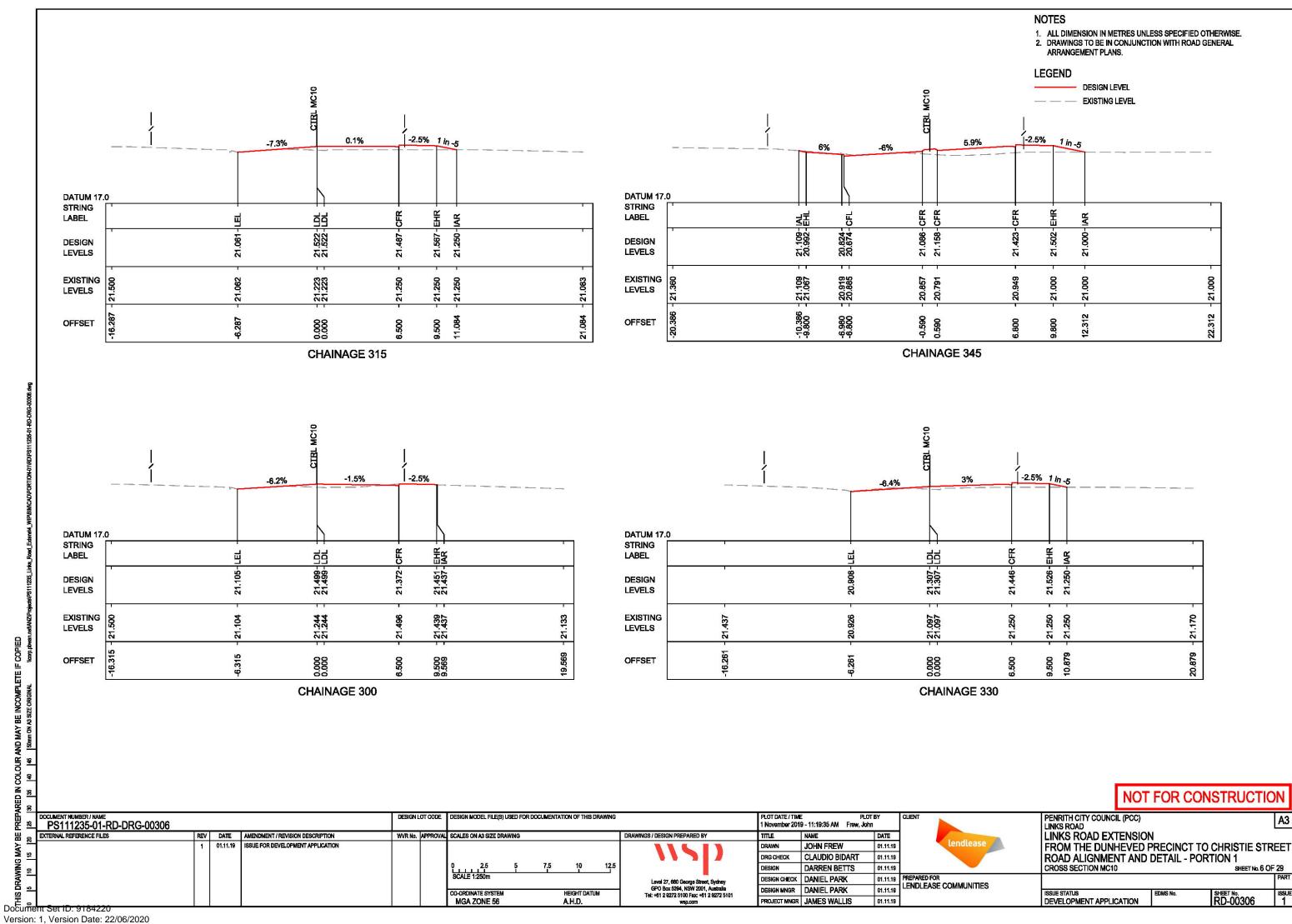


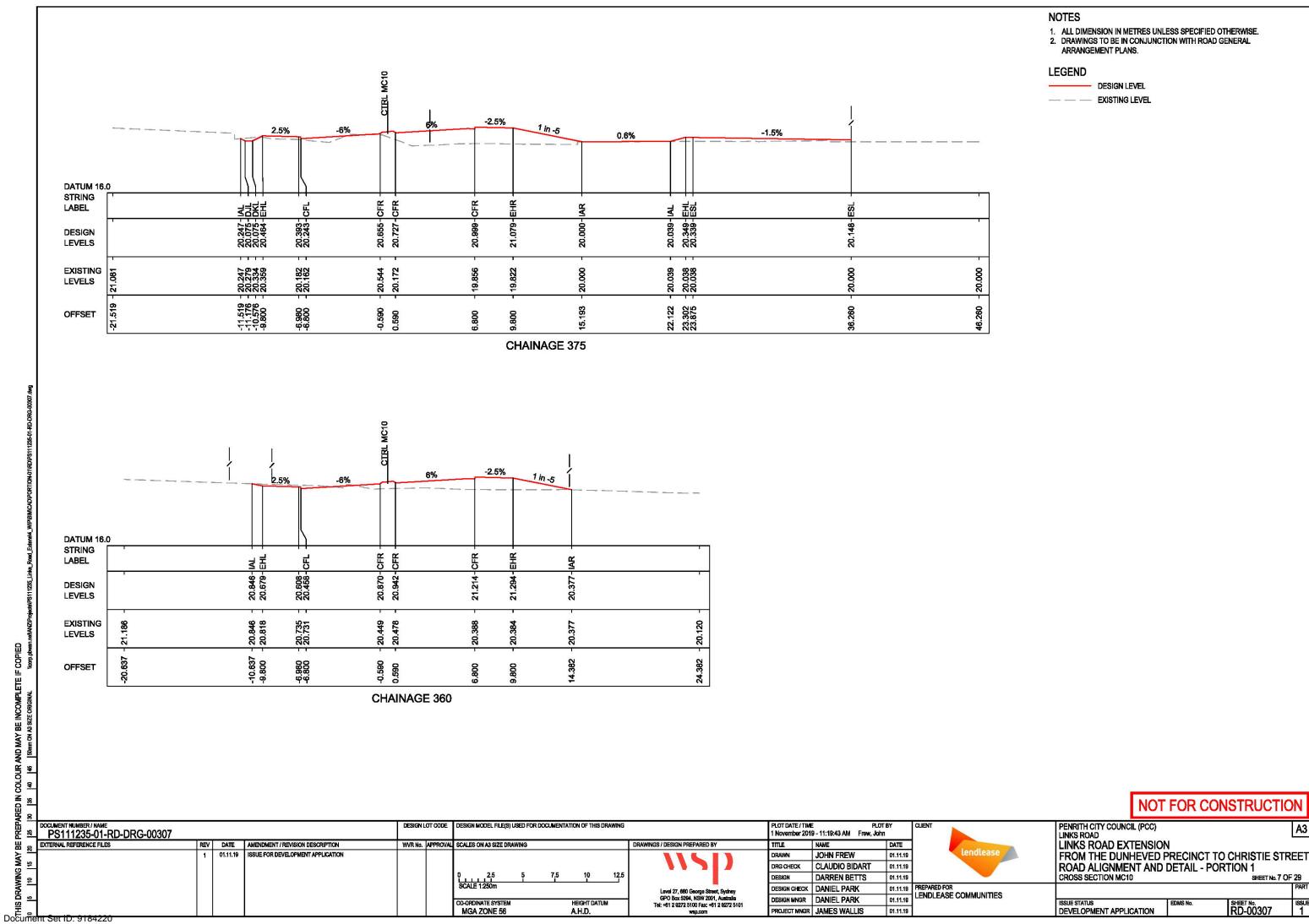


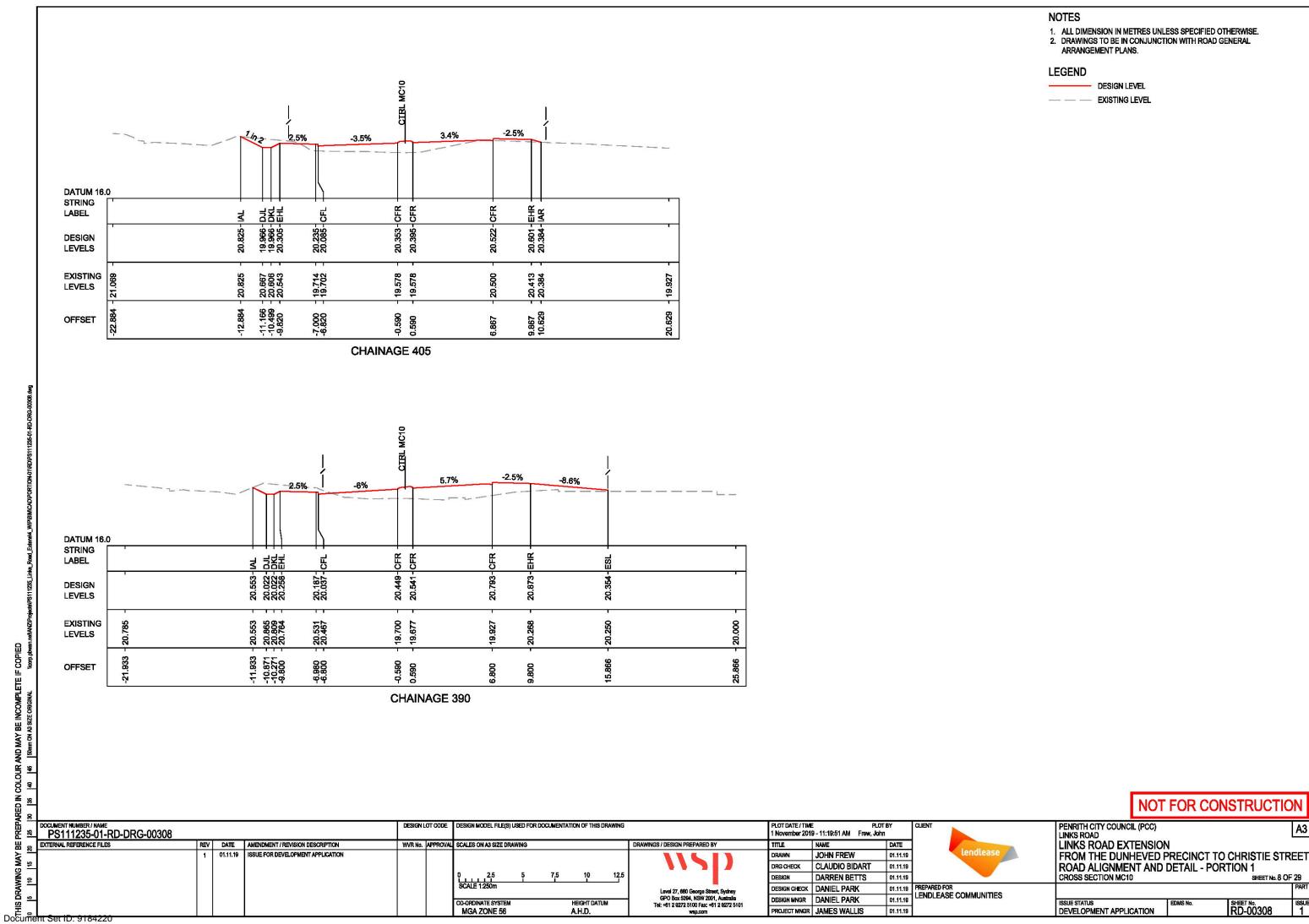


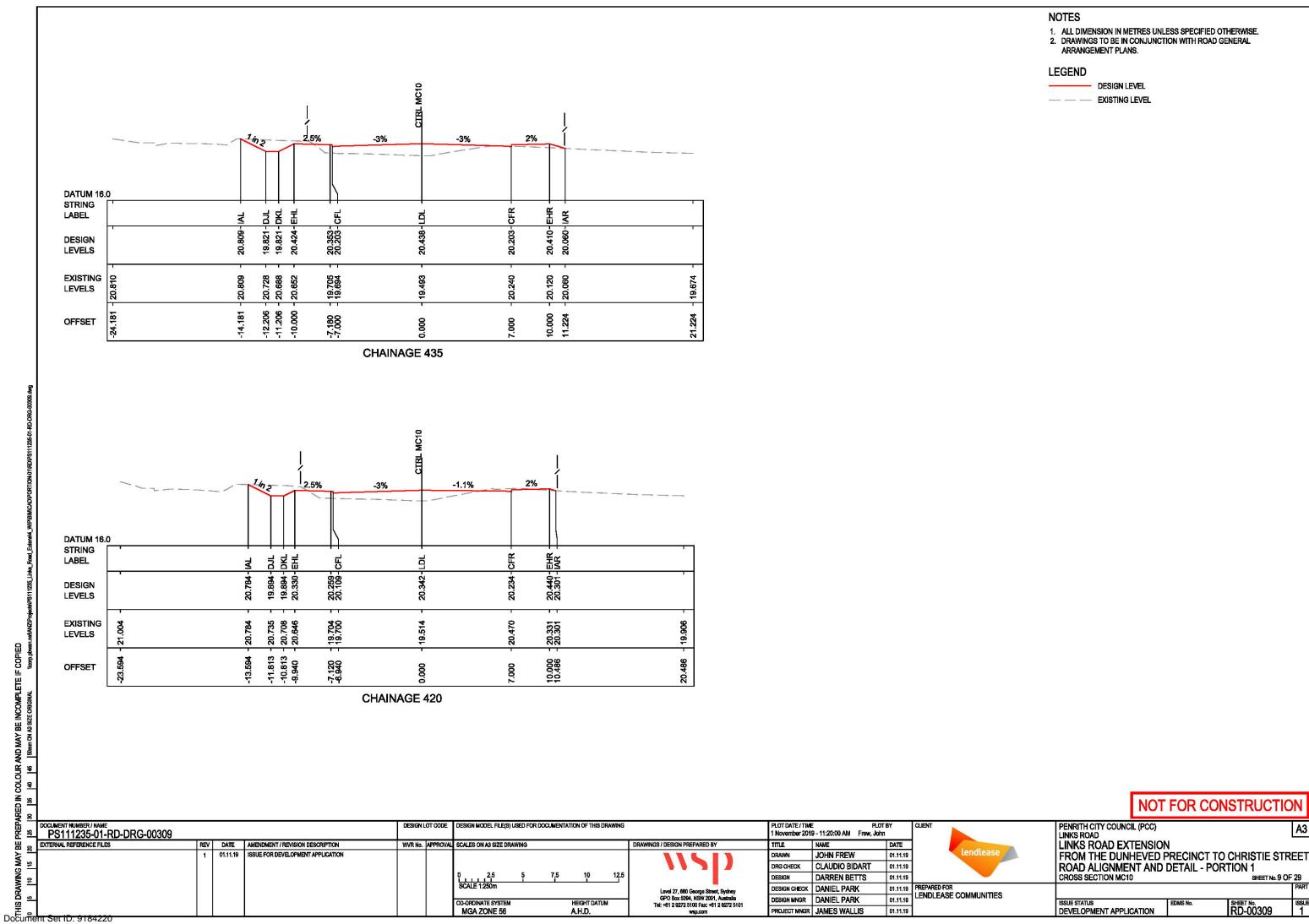


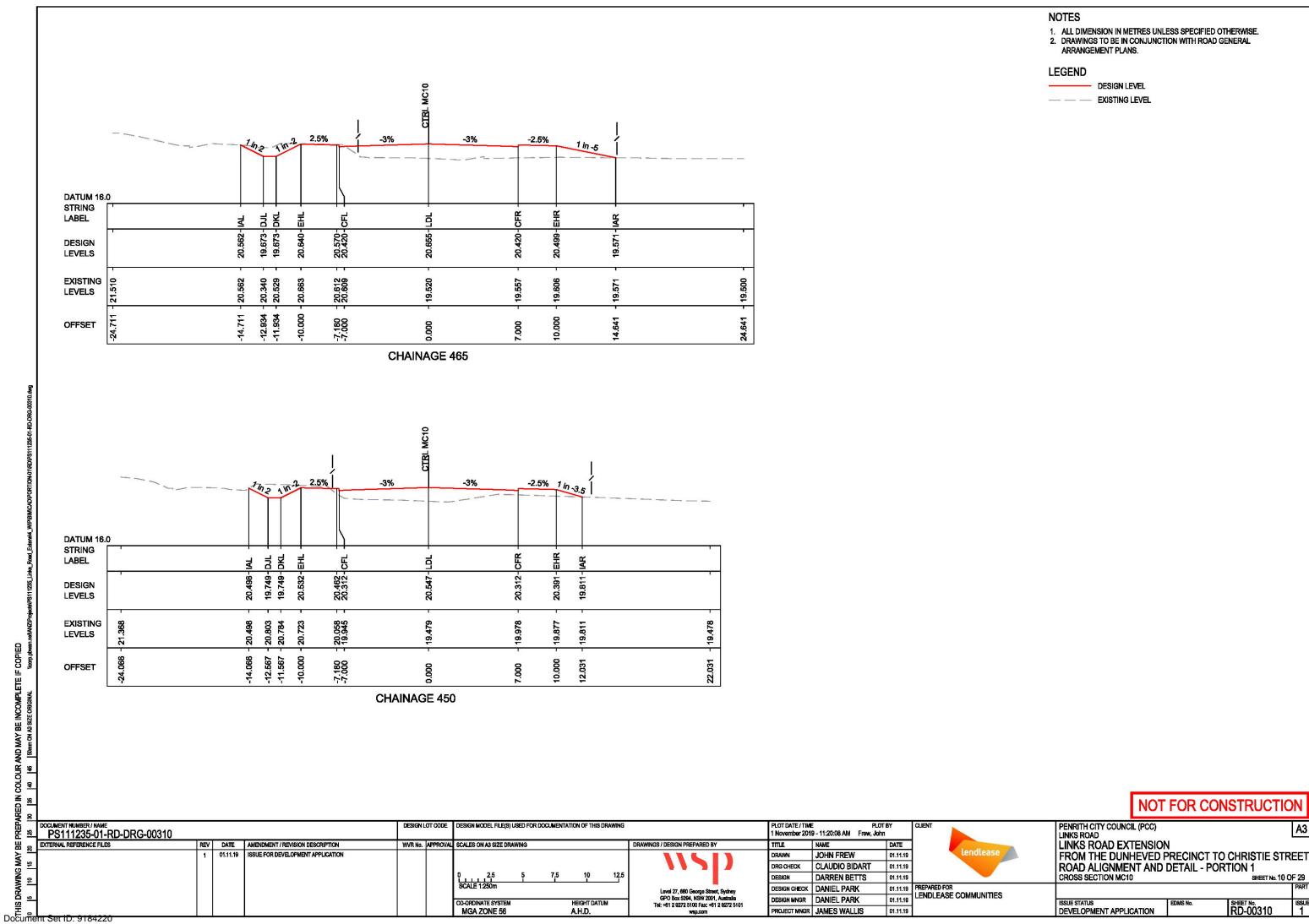


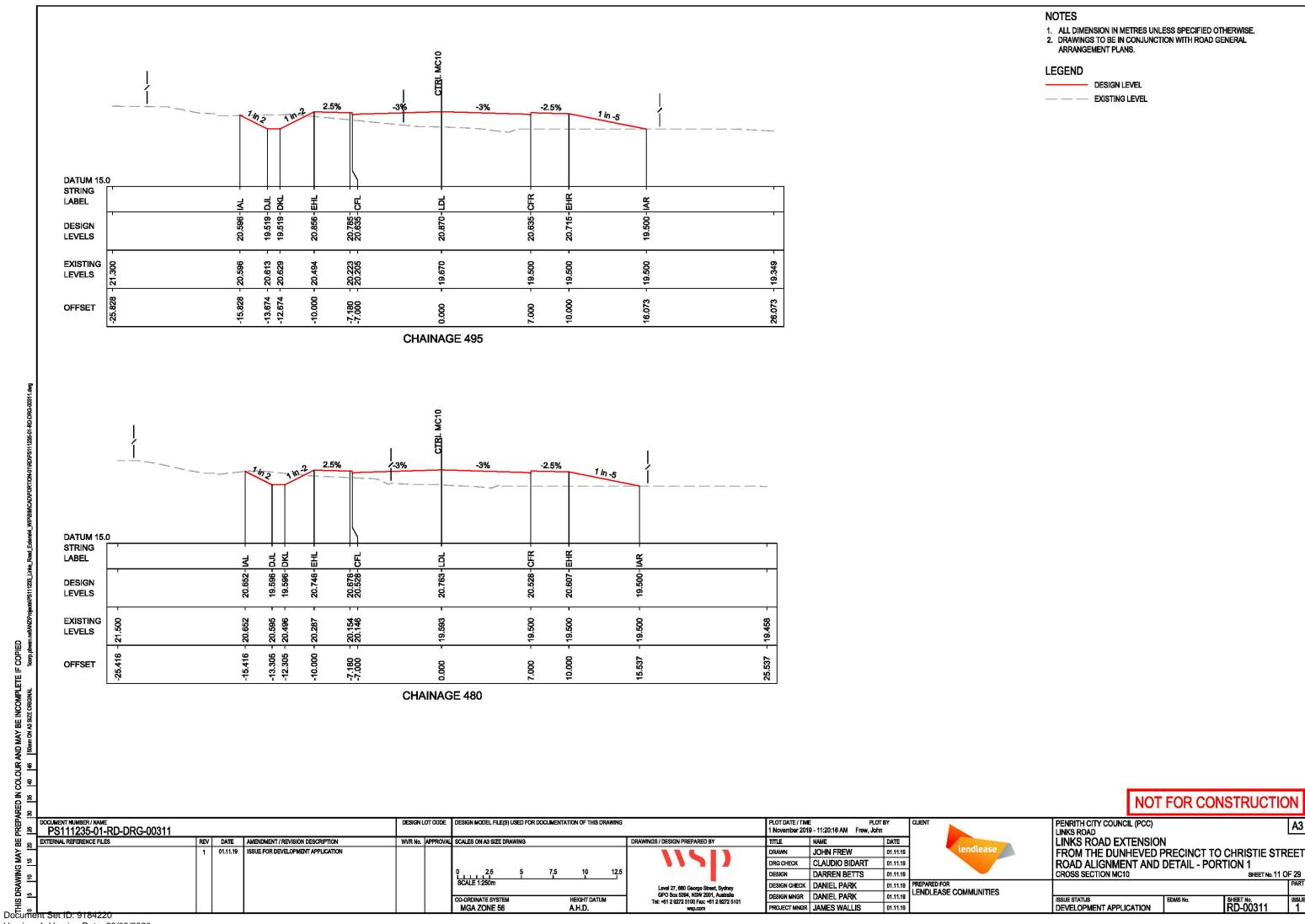


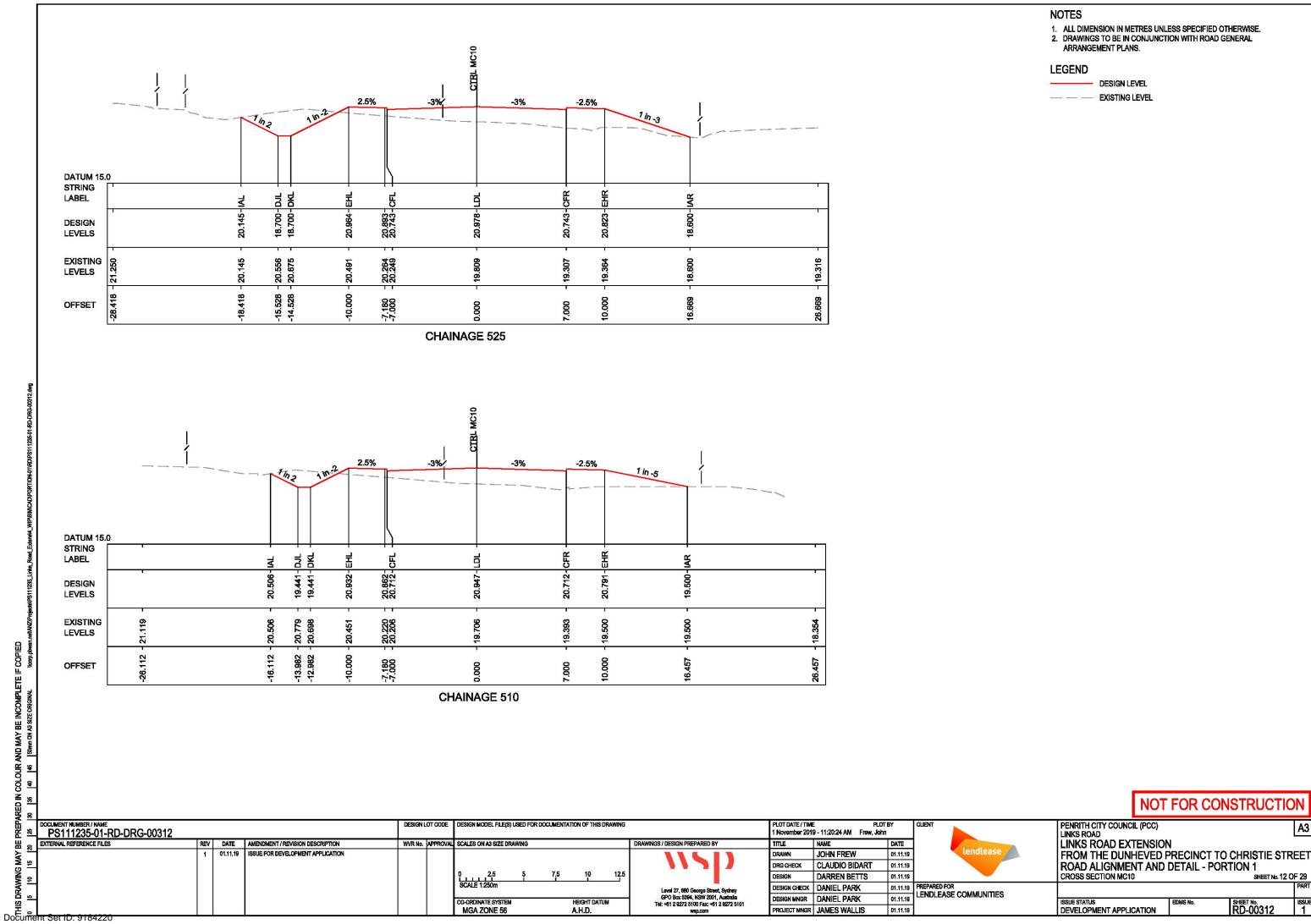


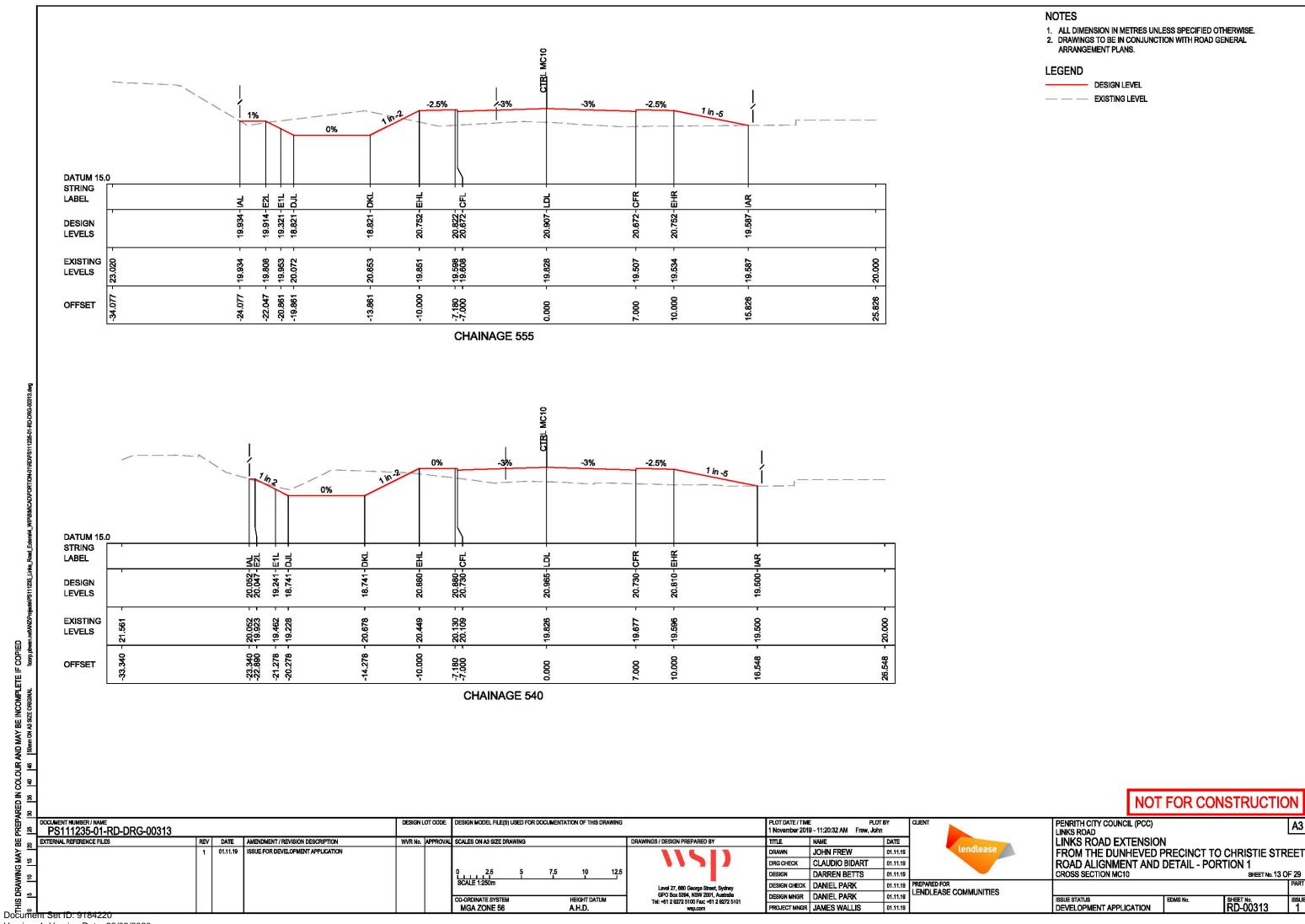


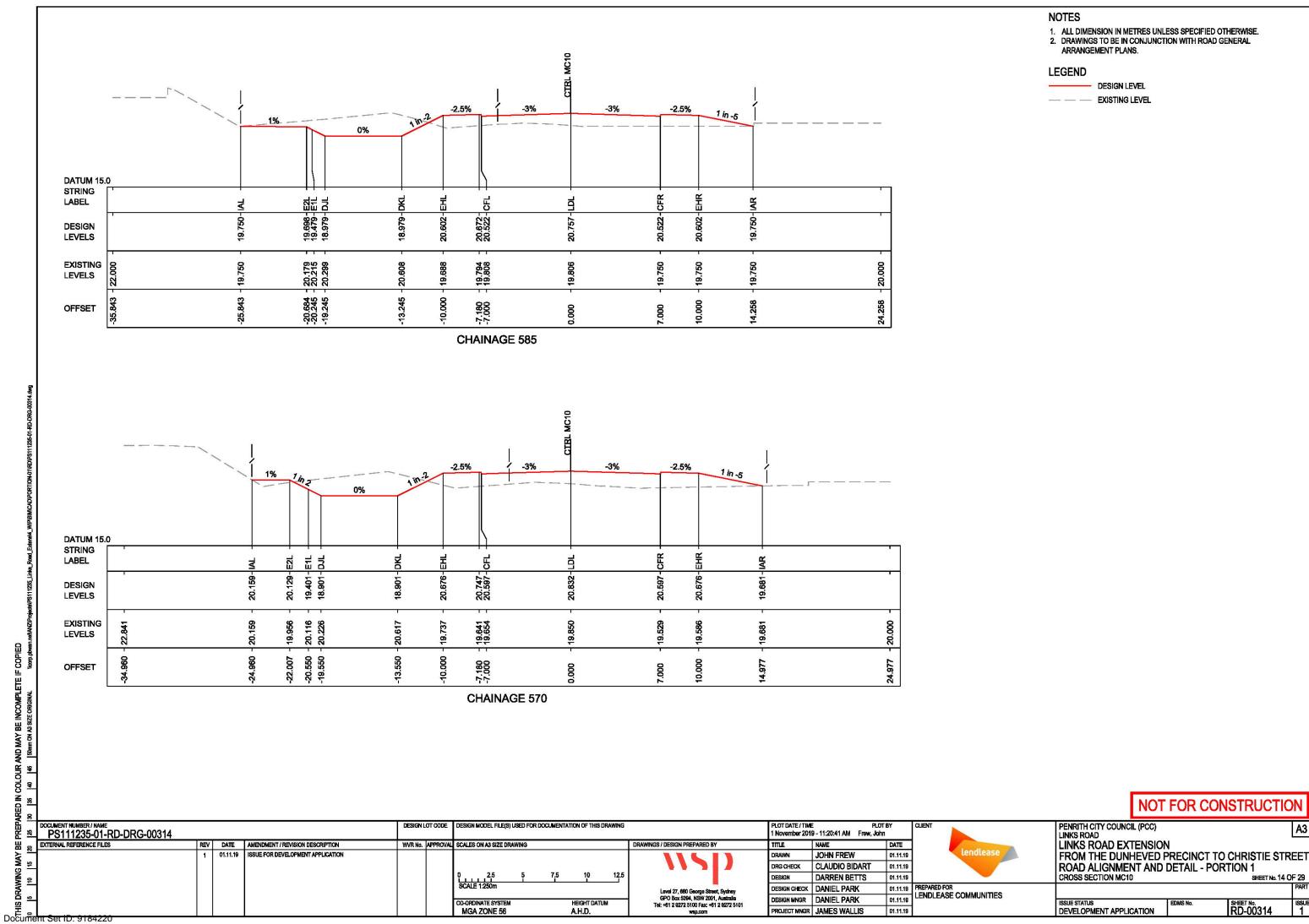


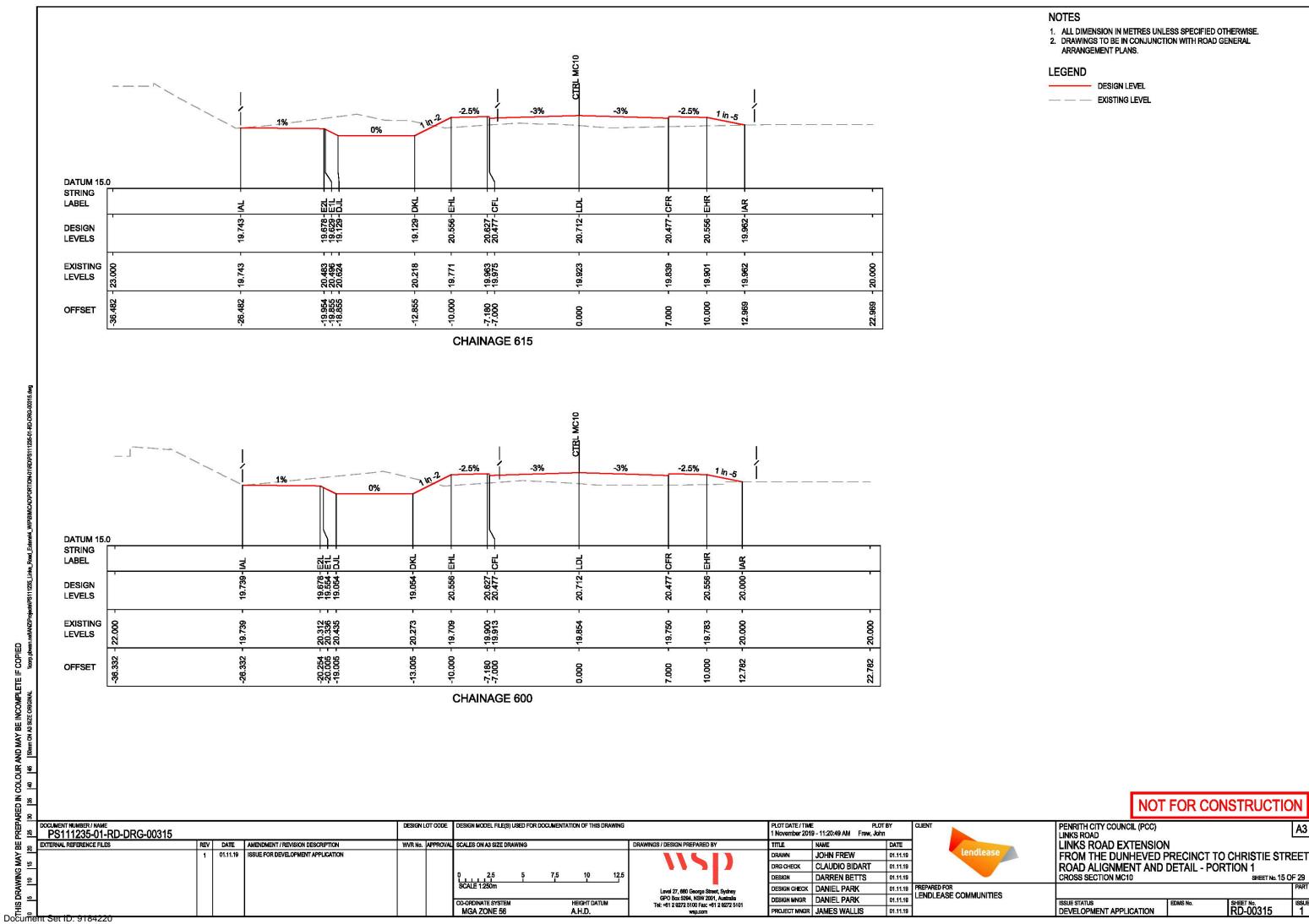


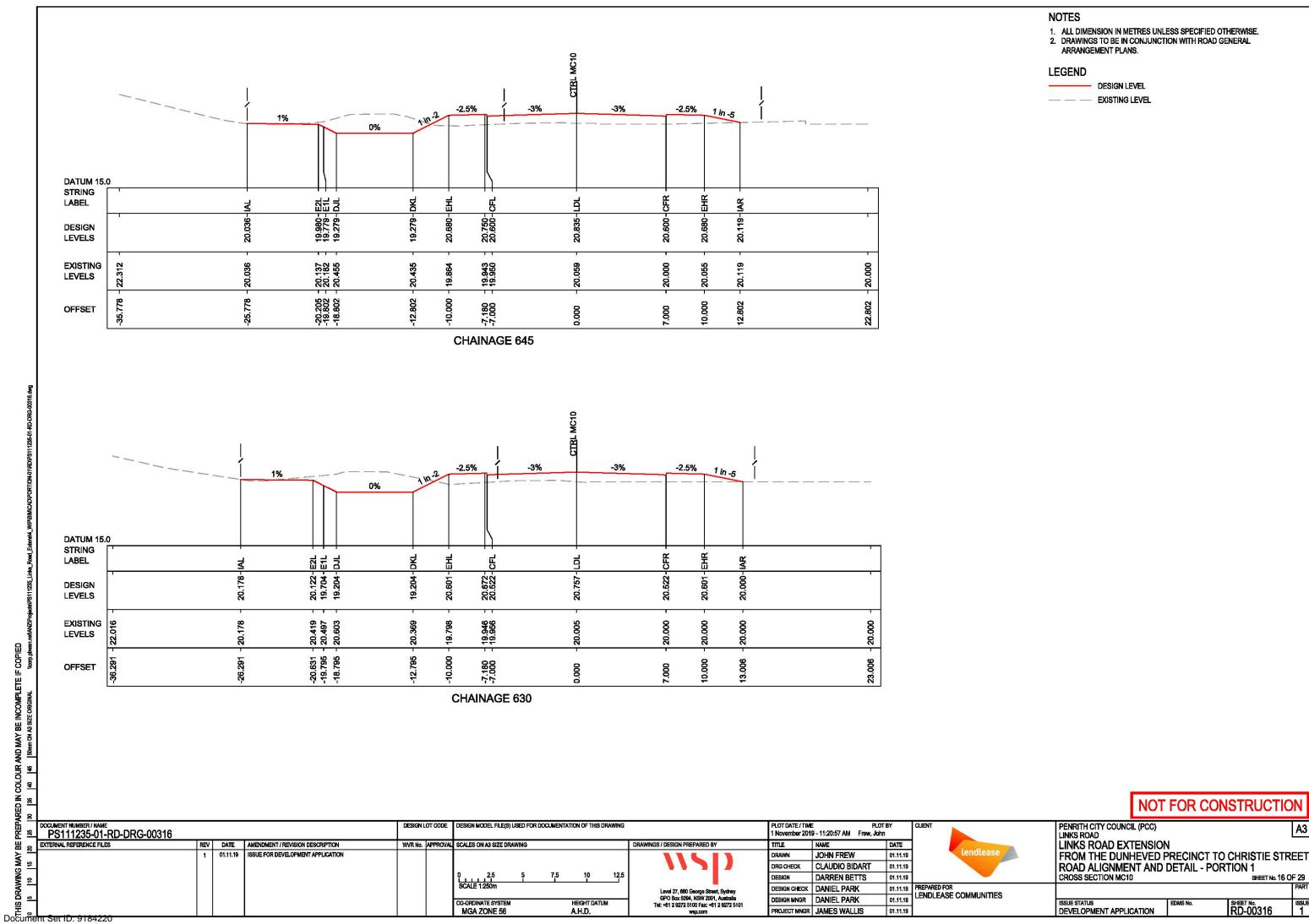


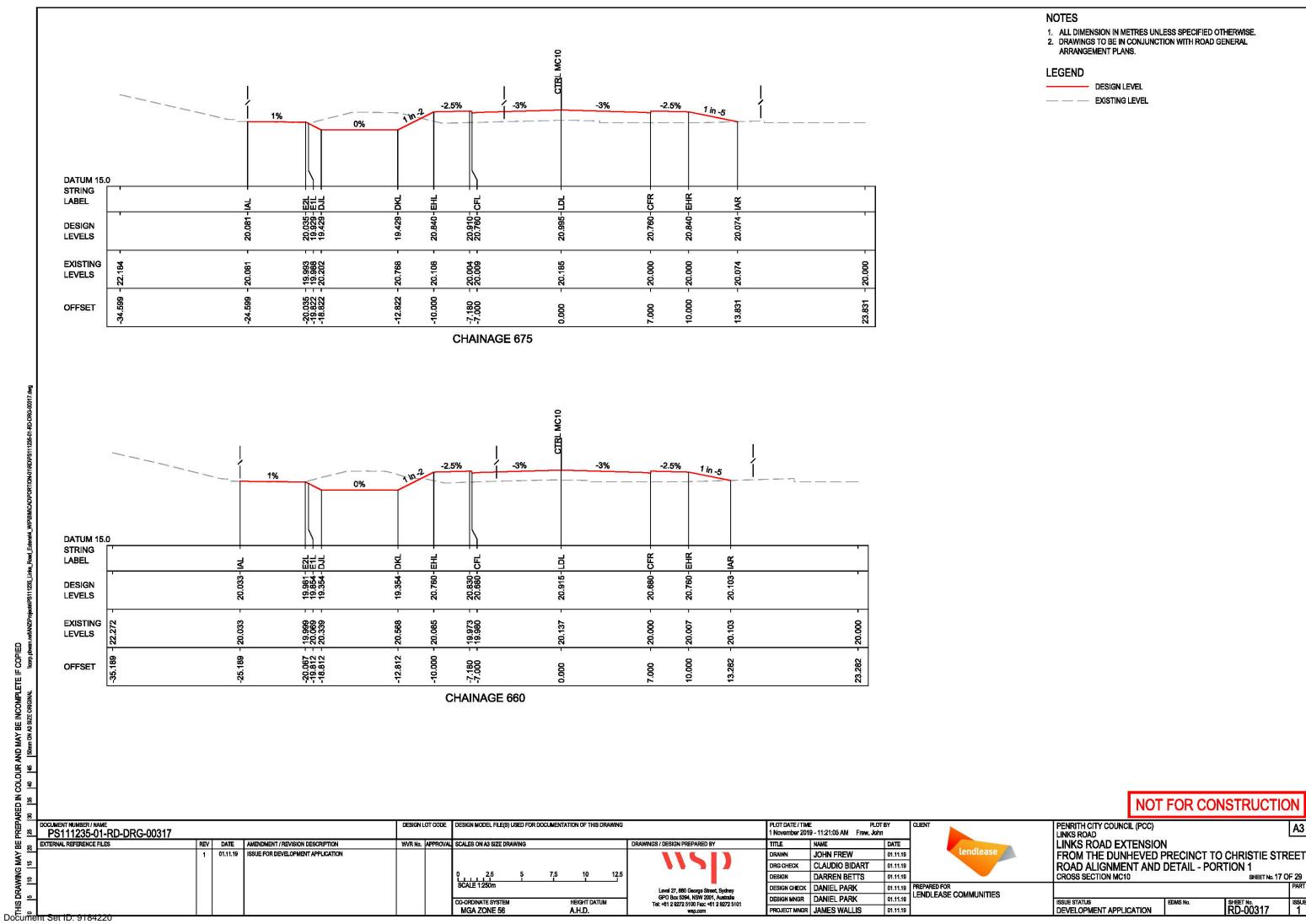




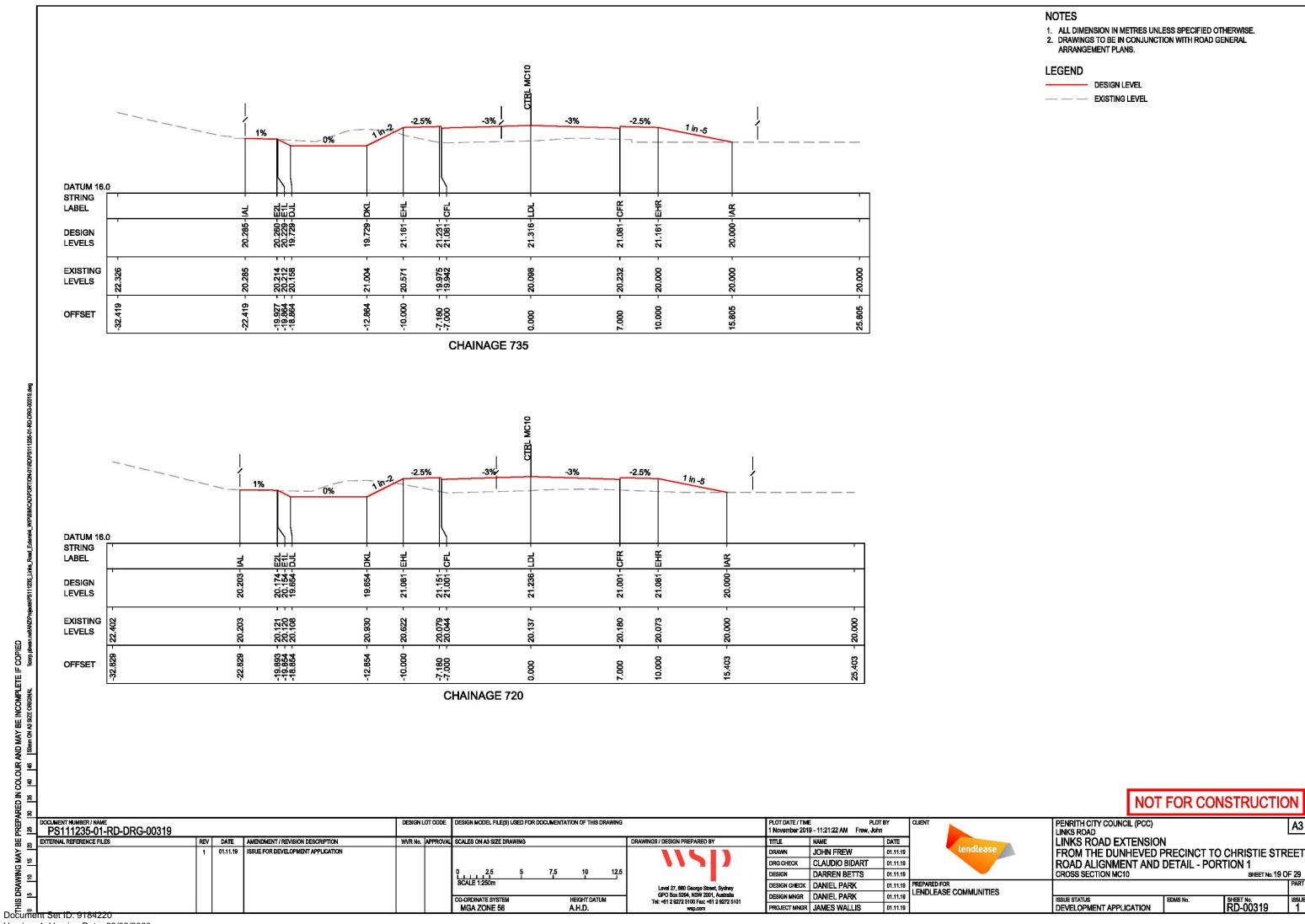


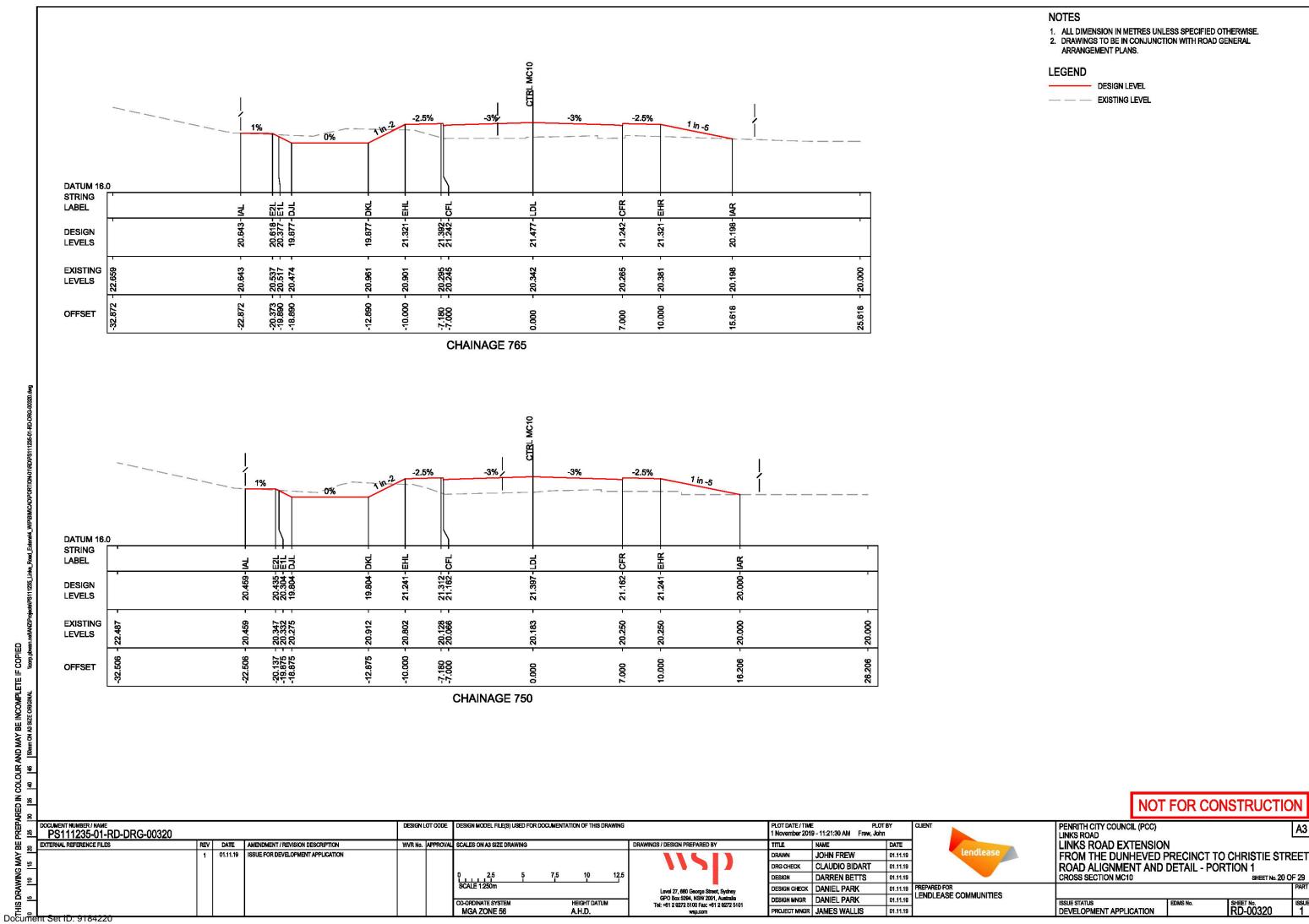


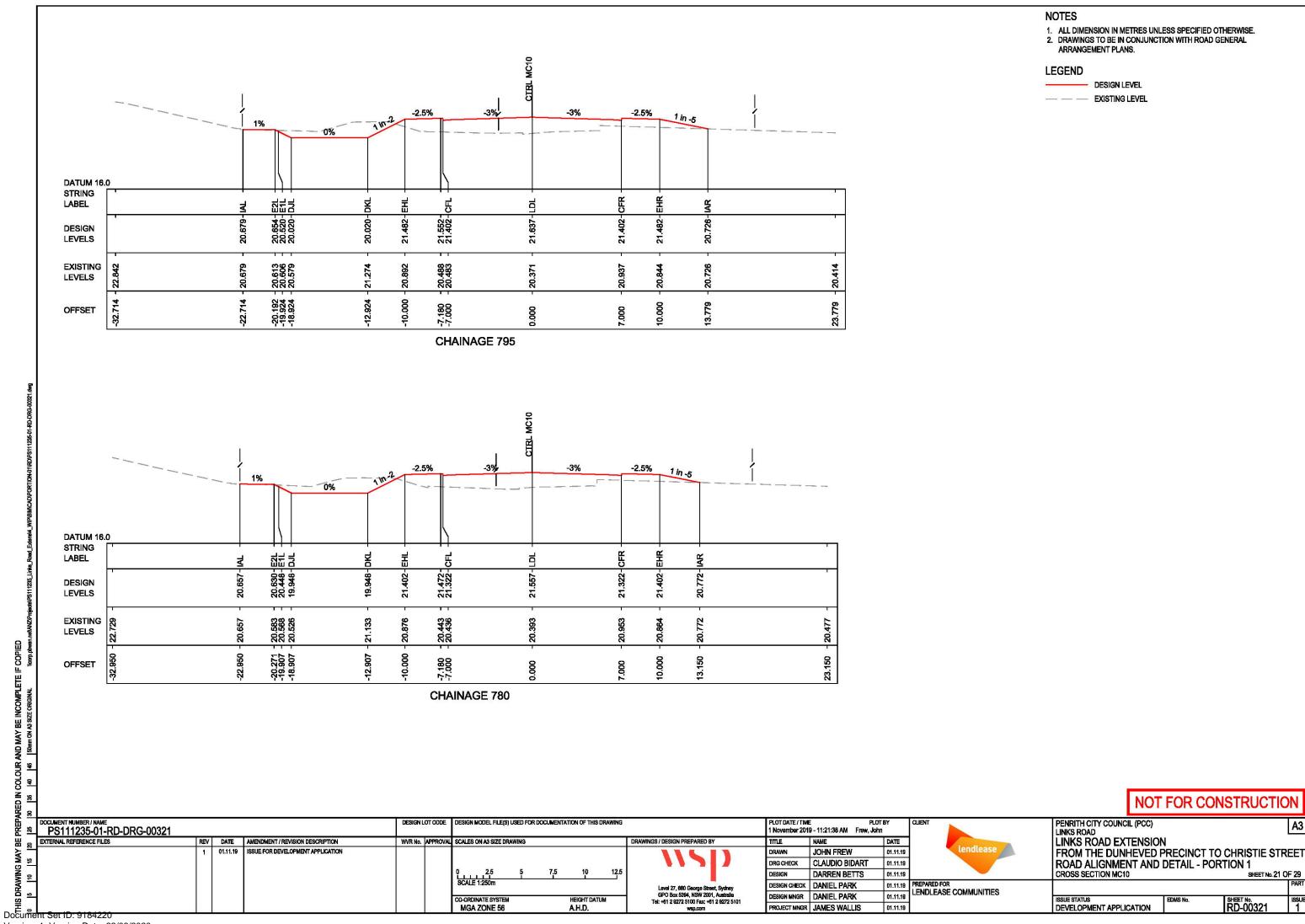


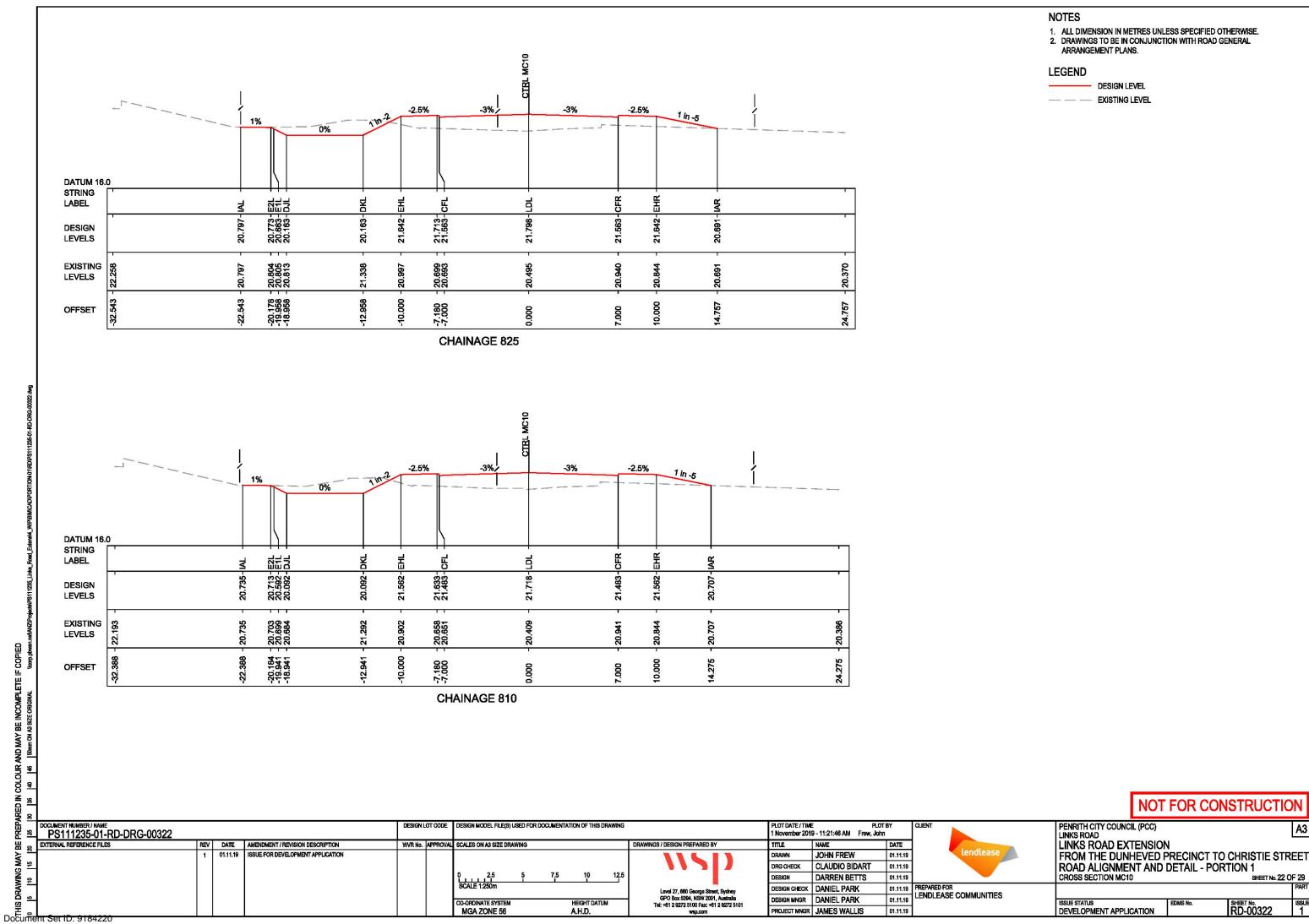


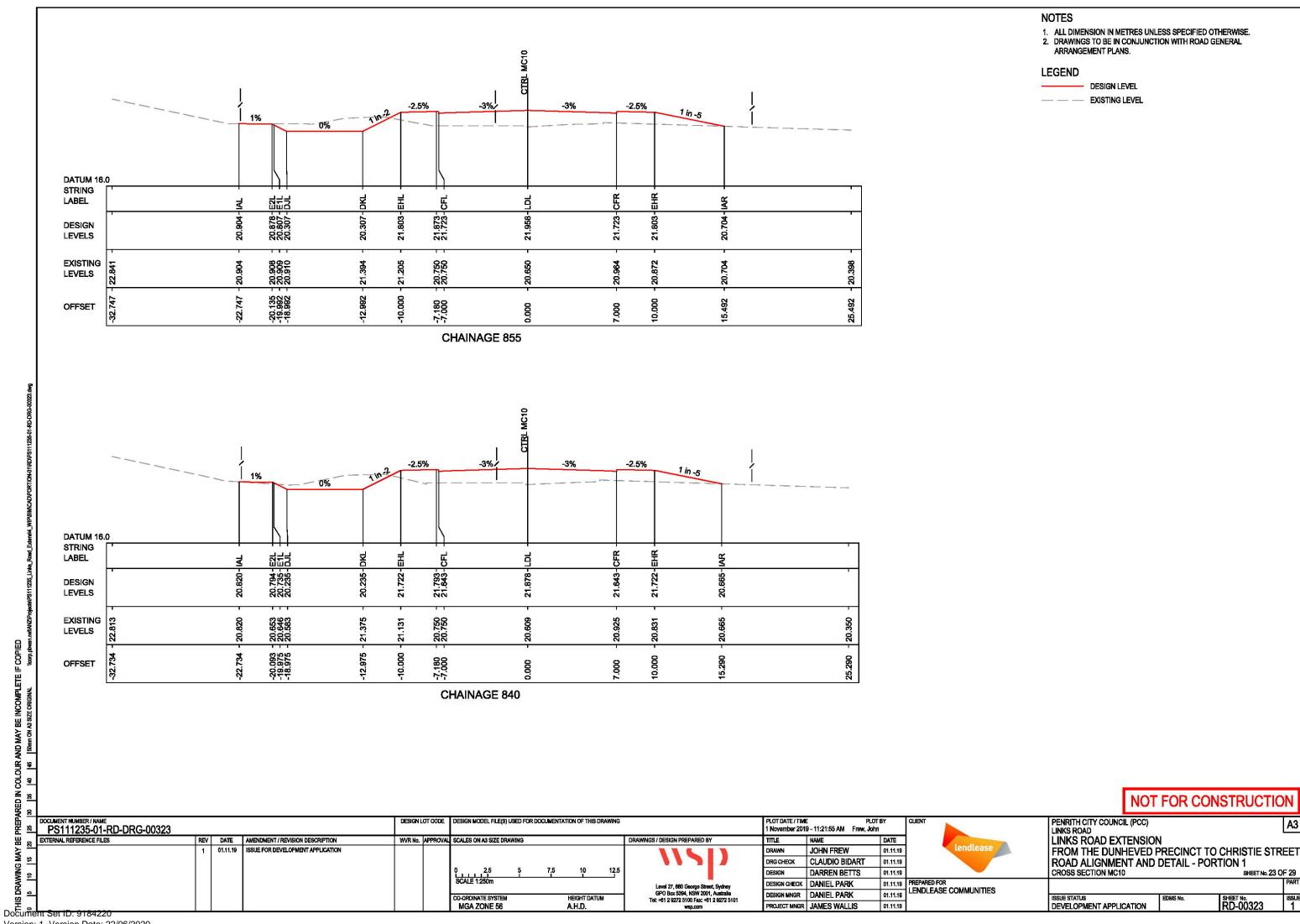
ALL DIMENSION IN METRES UNLESS SPECIFIED OTHERWISE. DRAWINGS TO BE IN CONJUNCTION WITH ROAD GENERAL ARRANGEMENT PLANS. **LEGEND** — — EXISTING LEVEL -2.5% -3% -2.5% 1 in -5 0% **DATUM 16.0** STRING 20.152-E2L 20.079-E1L 19.579-DJL LABEL 20.921 DESIGN **LEVELS EXISTING** 20.000 19.974 19.977 LEVELS ន្តន្តន OFFSET **CHAINAGE 705** -2.5% -2.5% 1 in -5 1% 0% **DATUM 16.0** STRING LABEL DESIGN LEVELS 20.093 20.089 20.074 **EXISTING** LEVELS OFFSET **CHAINAGE 690** NOT FOR CONSTRUCTION PLOT DATE / TIME PLOT BY 1 November 2019 - 11:21:13 AM Frew, John DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PENRITH CITY COUNCIL (PCC) PS111235-01-RD-DRG-00318 LINKS ROAD EXTENSION EXTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET ROAD ALIGNMENT AND DETAIL - PORTION 1 ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW CLAUDIO BIDART DRG CHECK 01.11.19 DARREN BETTS CROSS SECTION MC10 01.11.19 PREPARED FOR LENDLEASE COMMUNITIES DESIGN CHECK DANIEL PARK 01.11.19 DESIGN MINGR DANIEL PARK 01.11.19 SHEET No. RD-00318 DEVELOPMENT APPLICATION MGA ZONE 56 A.H.D. PROJECT MNGR JAMES WALLIS 01.11.19 Document Set ID: 9184220

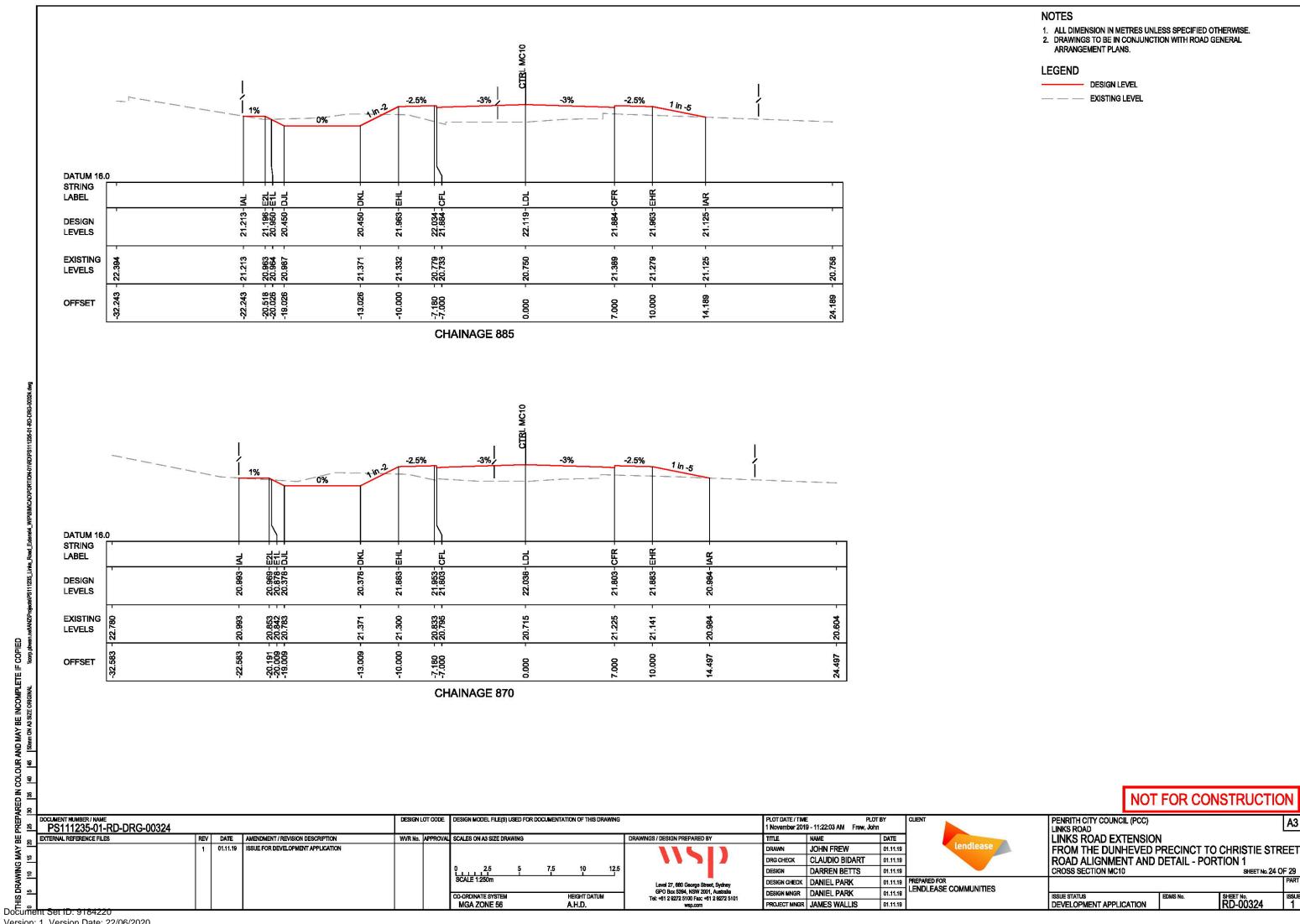


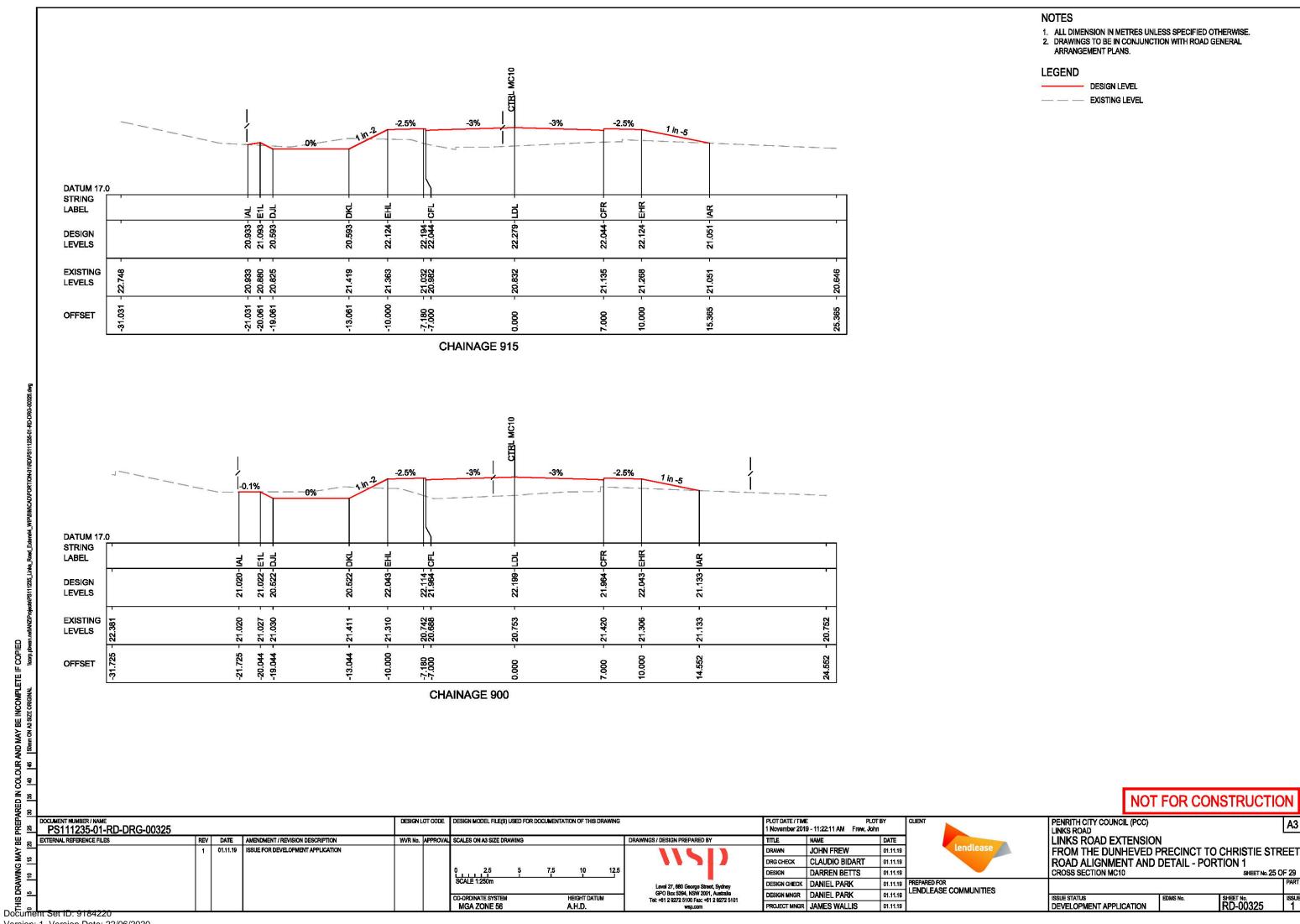


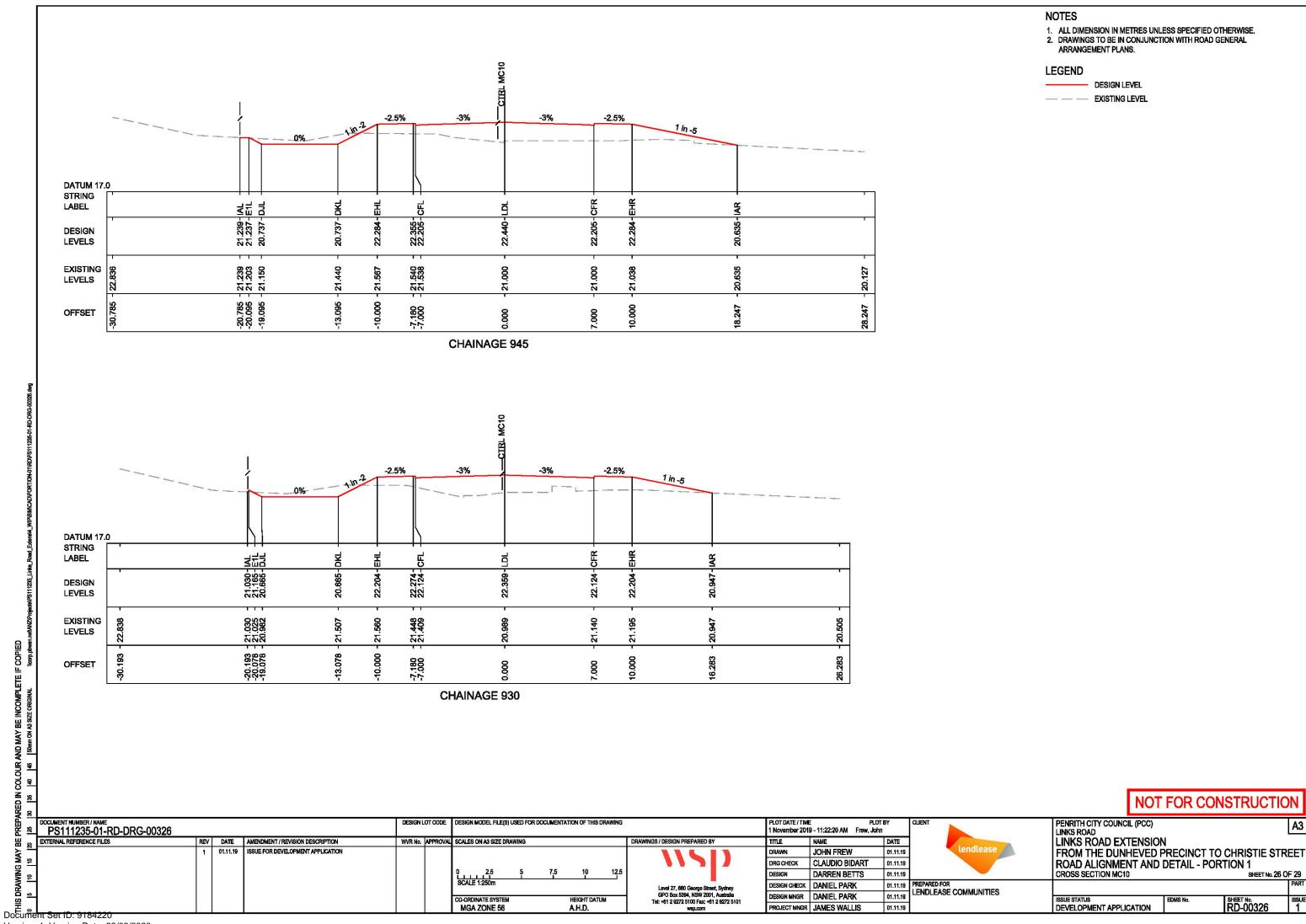


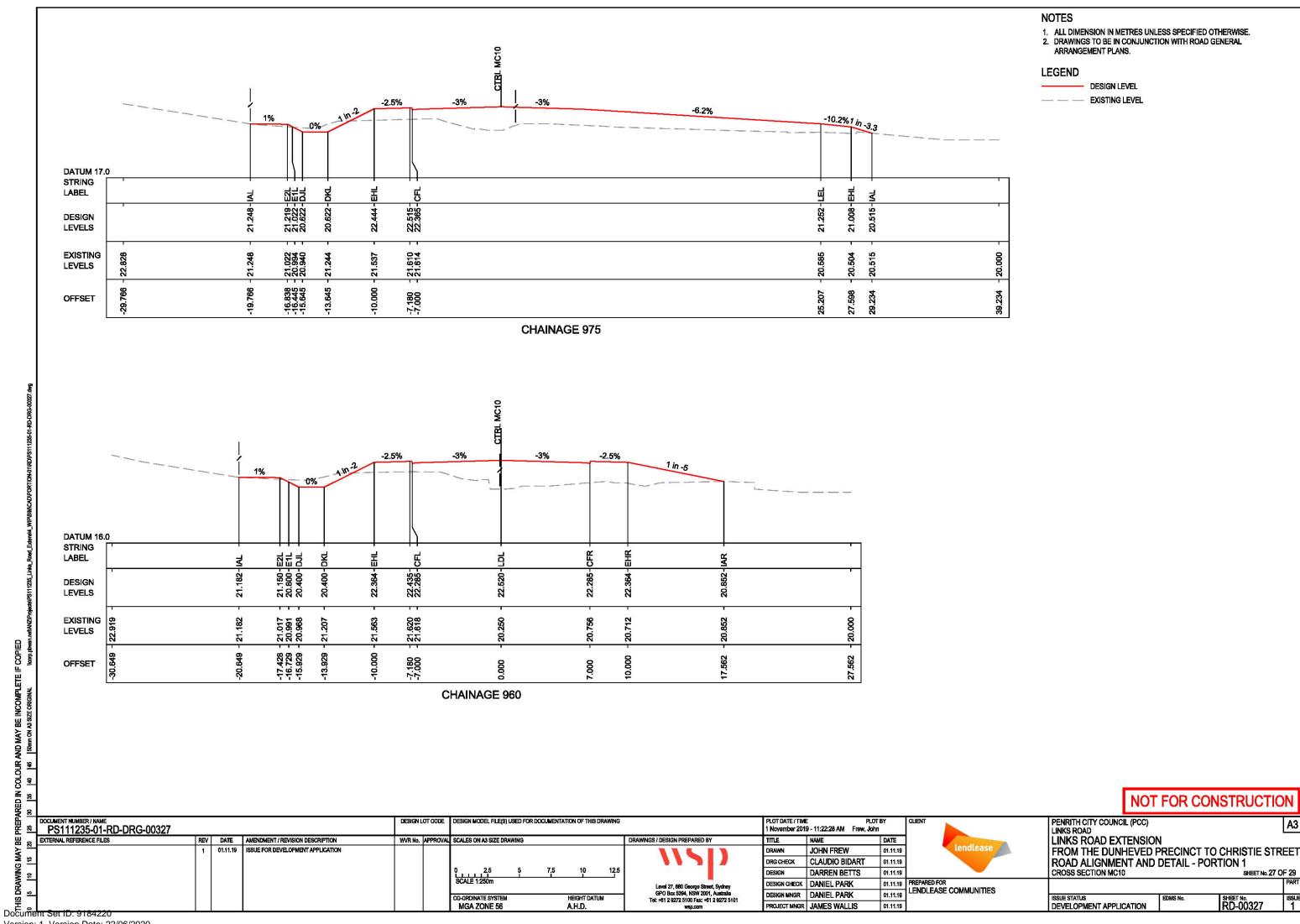


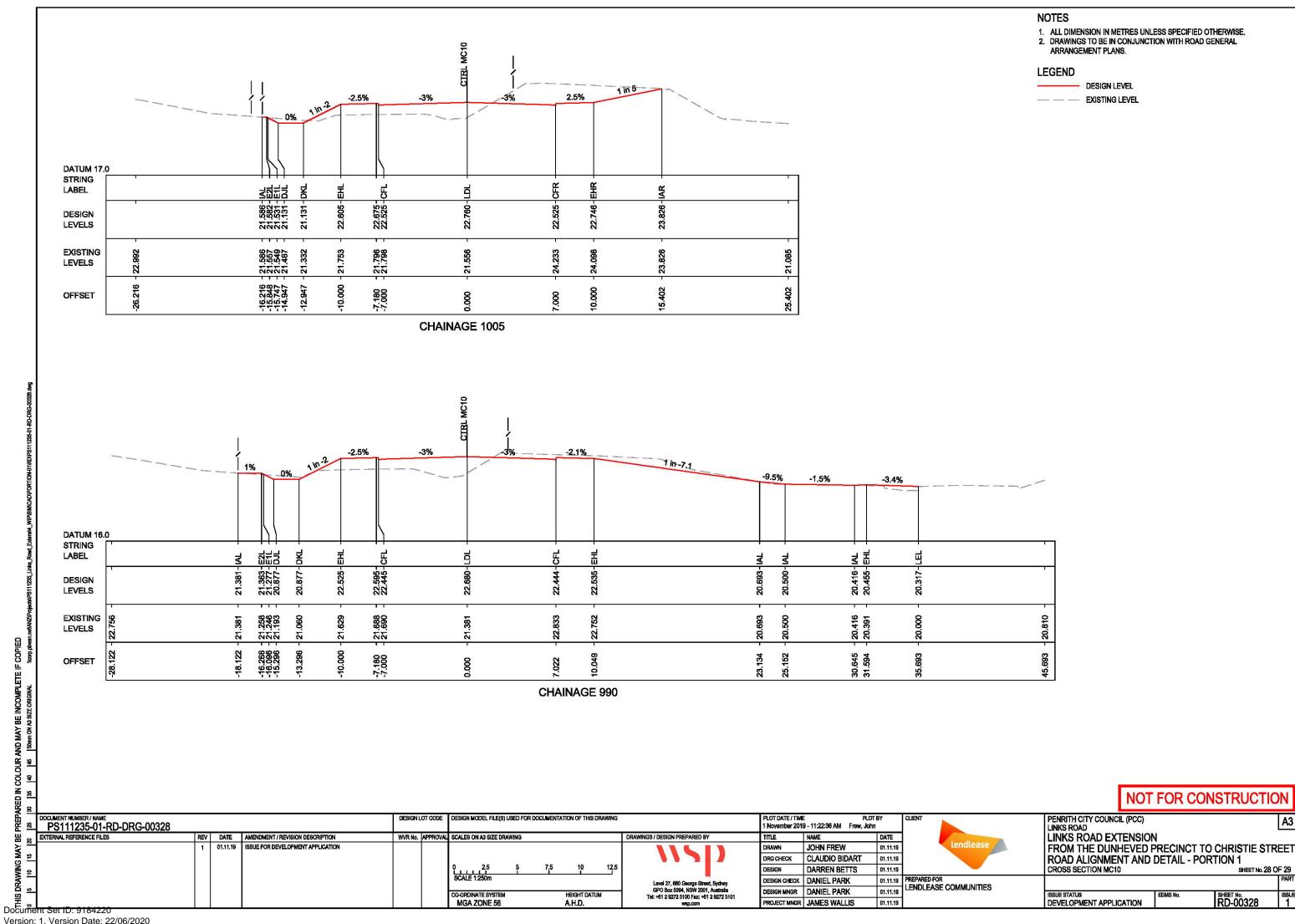










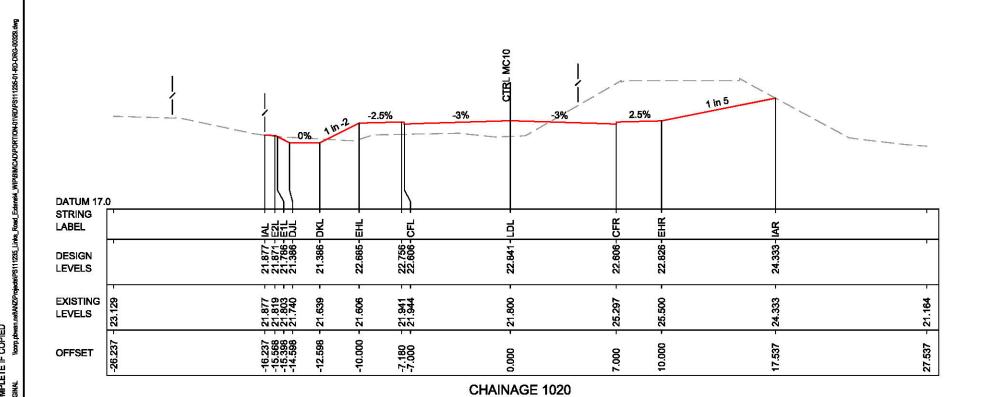


- ALL DIMENSION IN METRES UNLESS SPECIFIED OTHERWISE.
 DRAWINGS TO BE IN CONJUNCTION WITH ROAD GENERAL ARRANGEMENT PLANS.

LEGEND

DESIGN LEVEL

— — EXISTING LEVEL

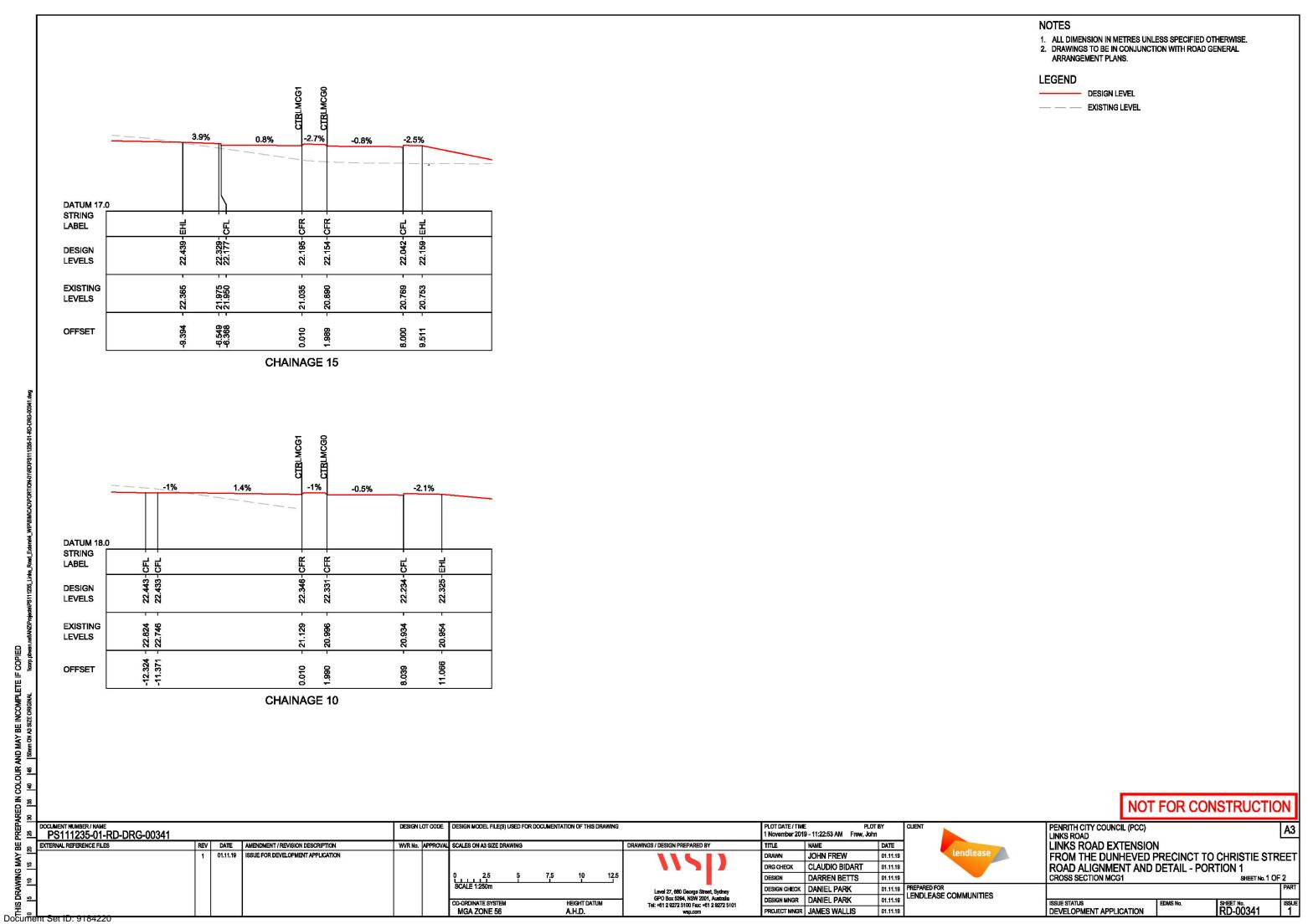


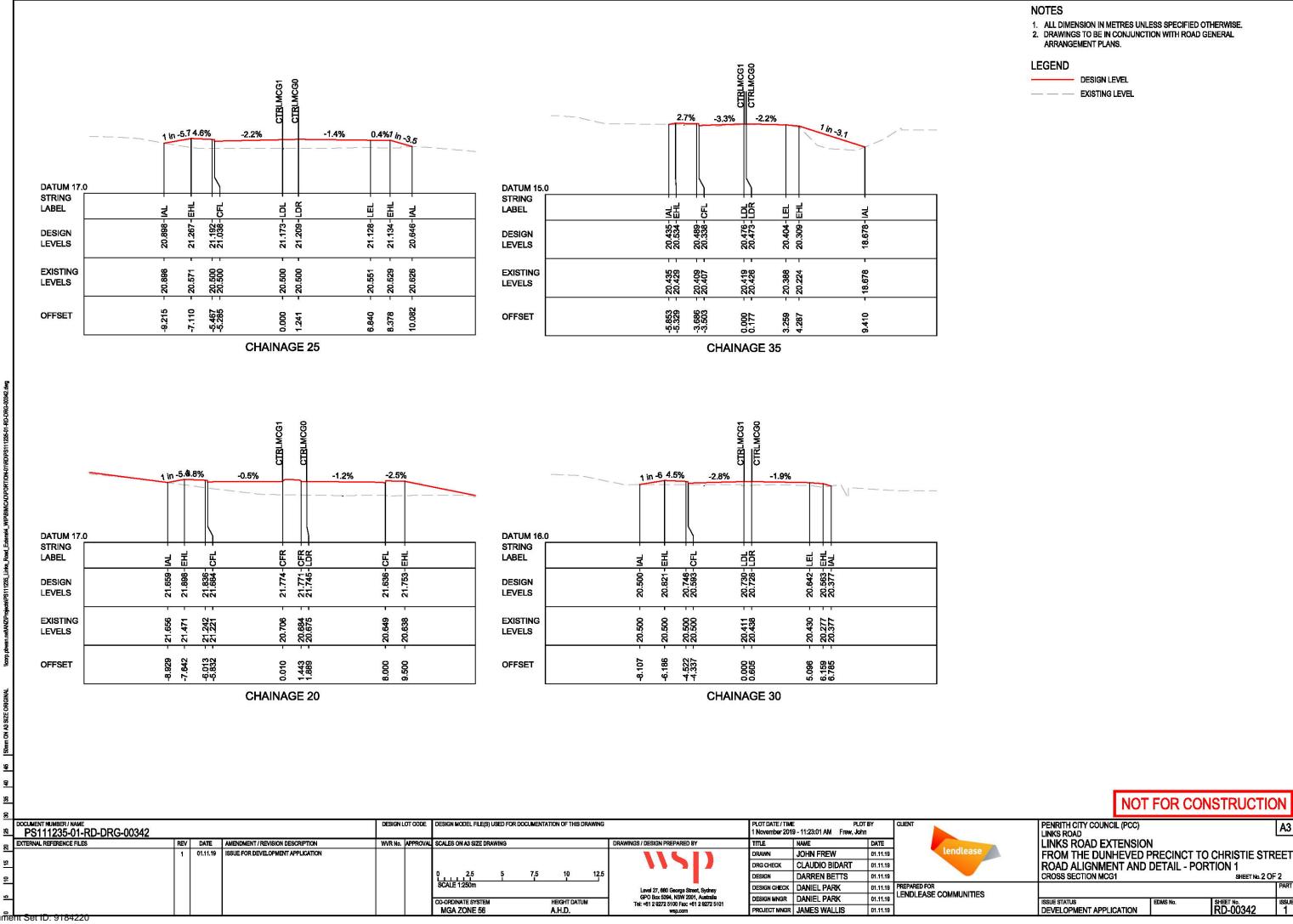
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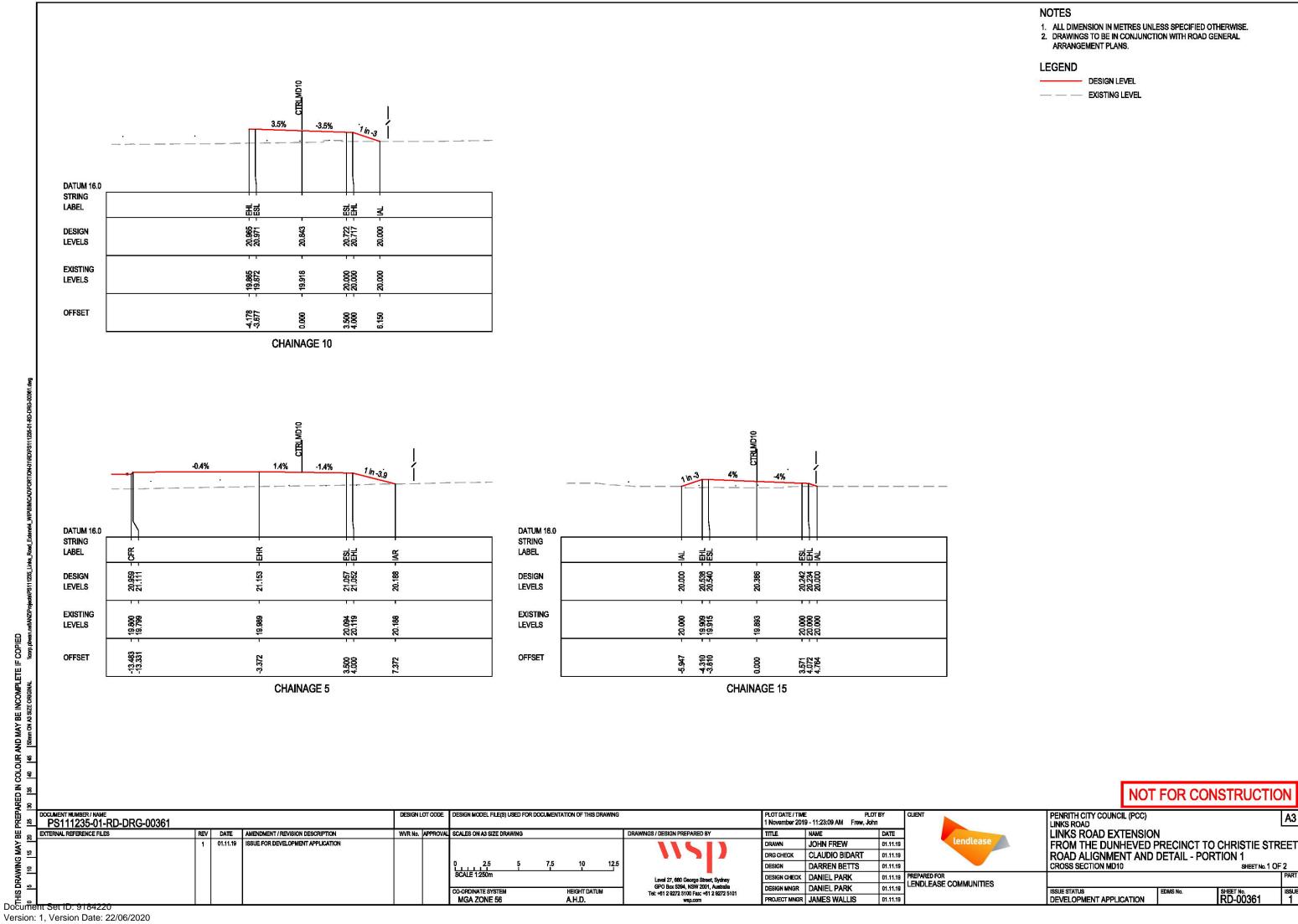
PENRITH CITY COUNCIL (PCC) LINKS ROAD PLOT DATE / TIME PLOT BY 1 November 2019 - 11:22:45 AM Frew, John DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PS111235-01-RD-DRG-00329 LINKS ROAD EXTENSION EXTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET ROAD ALIGNMENT AND DETAIL - PORTION 1 ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW DRG CHECK CLAUDIO BIDART 01.11.19 DARREN BETTS CROSS SECTION MC10 SHEET No. 29 OF 29 ESIGN 01.11.19 PREPARED FOR LENDLEASE COMMUNITIES DESIGN CHECK DANIEL PARK 01.11.19 DESIGN MINGR DANIEL PARK 01.11.19 HEIGHT DATUM A.H.D. SHEET No. RD-00329 DEVELOPMENT APPLICATION PROJECT MNGR JAMES WALLIS MGA ZONE 56 01.11.19

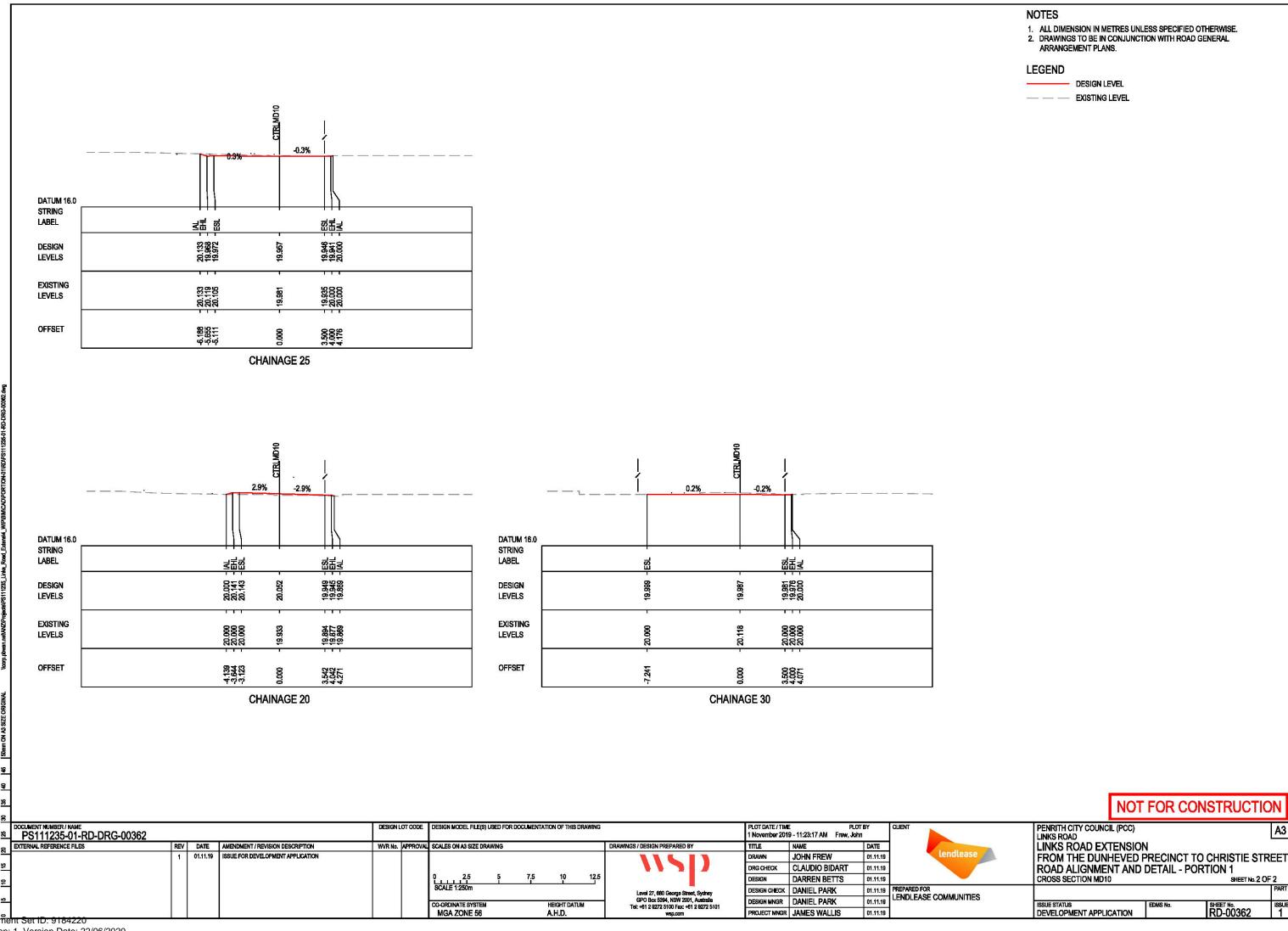
Version: 1, Version Date: 22/06/2020

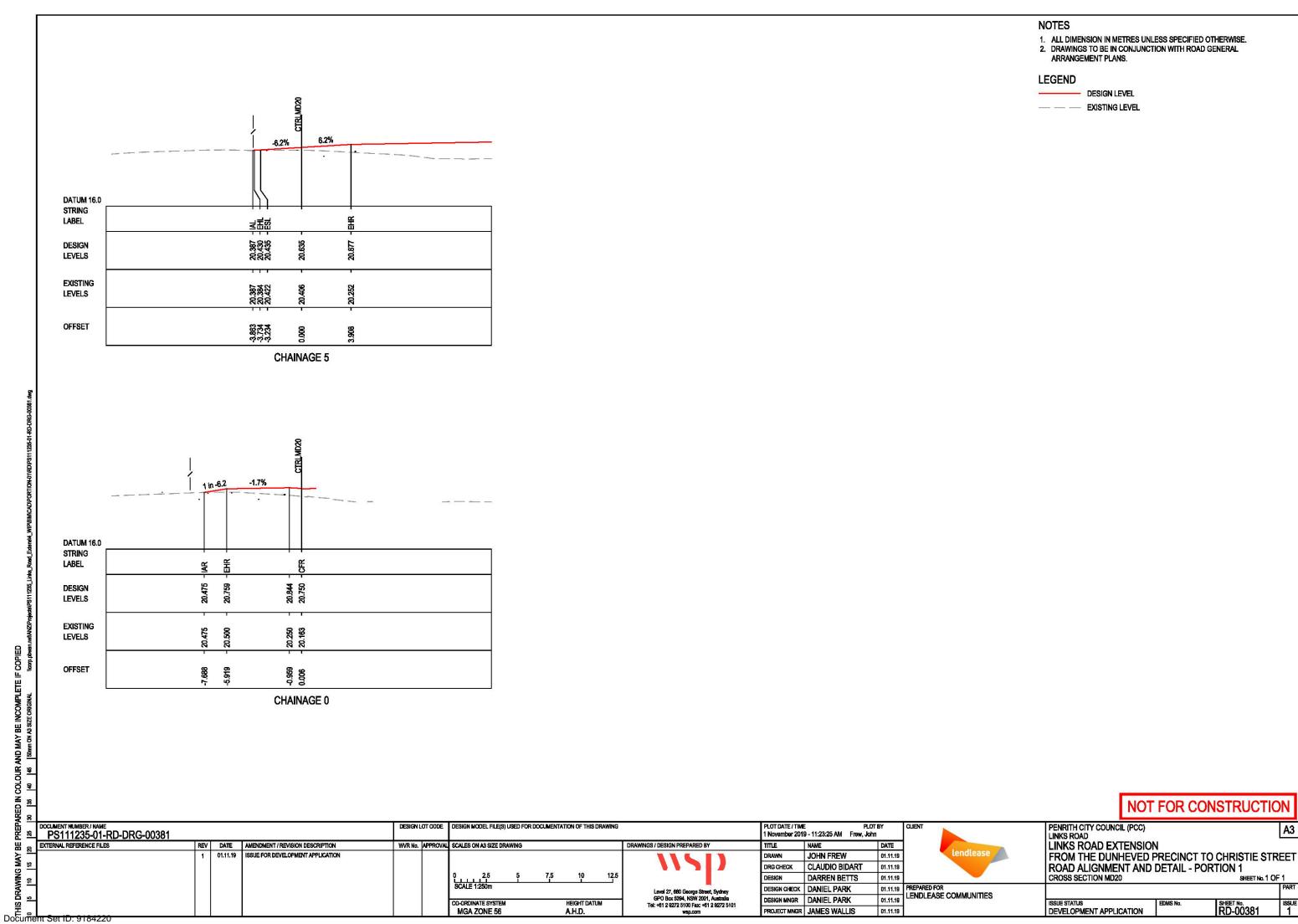
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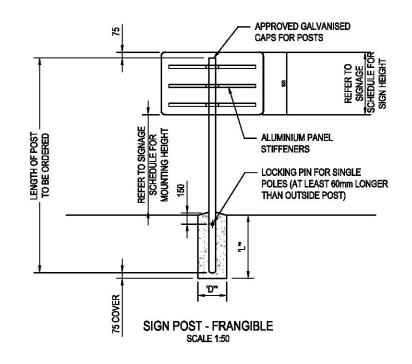


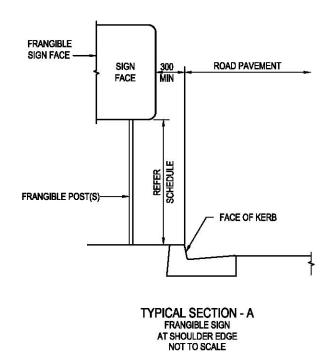


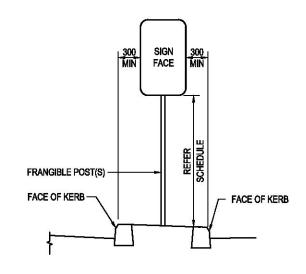


SIGN CODE	NEW/ REMOVE/ RETAIN/ RELOCATE	DESCRIPTION	CONTROL LINE	CHAINAGE	DIRECTION	LOCATION	HEIGHT (mm)	WIDTH (mm)	AREA (m2)	MOUNTING HEIGHT (m)	"POST BORE SIZE"	NO. OF POSTS	POST SPACING (mm)	COMMENTS
W5-22	RELOCATE	TRUCKS (CROSSING OR ENTERING)	MC10	35	SB	LHS	-		-		÷	84	-	RELOCATE SIGN FACE TO NEW SIGN POST LOCATION
R4-1(A)	NEW	50KM/HR	MC10	45	NB	LHS	800	600	0.48	2.5	90XL	1		
W5-22(A)	RELOCATE	TRUCKS (CROSSING OR ENTERING)	MC10	45	SB	LHS		•	-	2.5	90XL	1	E	ALL DIMENSIONS ARE AS EXISTING. USE RELOCATED SIGN FACE
W1-8(L)	NEW	TILTING TRUCK LEFT	MC10	220	SB	LHS	3000	1500	4.50	2.5	90XL	2	900	
W1-1(L)	REMOVE	LEFT TURN	MC10	240	NB	LHS	•	•						
W1-3(L)(A)	NEW	LEFT CURVE	MC10		5456	1114	600	600		123-23	200			
W8-2(A)	NEW	35KM/HR ADVISORY SPEED LIMIT	MC10	265	NB	LHS	300	600	0.54	2.5	90XL	*1	-	
R5-400(R)(A)	NEW	NO STOPPING RIGHT	MC10	290	NB	LHS	450	225	0.10	2.5	90XL	1	-	
R5-400(L)(A)	NEW	NO STOPPING LEFT	MC10	315	SB	LHS	450	225	0.10	2.5	90XL	1		
R2-14(L)(A)	NEW	LEFT TURN ONLY	MC10	360	SB	MEDIAN	600	450	0.27	2.5	90XL	1	-	
<u> </u>	REMOVE	UNKNOWN	MC10	370	NB	LHS		-	N <u>u</u> N		2	5	-	UNIDENTIFIABLE SIGN FACE
D4-6(A)	NEW	CHEVRON	MC10	340	SB	LHS	750	600	0.45	0.5	90XL	1	*	
D4-6(A)	NEW	CHEVRON	MC10	350	SB	LHS	750	600	0.45	0.5	90XL	11	-	
D4-6(A)	NEW	CHEVRON	Meto	330	36	LIIJ	750	600	0.10	5.0	JULE	<u> </u>		
D4-6(A)	 	CHEVRON	MC10	360	SB	LHS	750	600	0.90	0.5	90XL	1	2	SIGNS TO BE MOUNTED WITH AN OFFSET ON THE POST TO ALLOW SIGN FACE DIRECTIONS TO BE MET
×1.5	NEW		-					+						
D4-6(A)	NEW	CHEVRON	MC10	370	SB	LHS	750	600	0.90	0.5	90XL	٠Ĩ	l e	SIGNS TO BE MOUNTED WITH AN OFFSET ON THE POST TO ALLOW SIGN FACE DIRECTIONS TO BE NET
D4-6(A)	NEW	CHEVRON					750	600				7		·
D4-6(A)	NEW	CHEVRON	MC10	380	SB	LHS	750	600	0.90	0.5	90XL	1	-	SIGNS TO BE MOUNTED WITH AN OFFSET ON THE POST TO ALLOW SIGN FACE DIRECTIONS TO BE MET
D4-6(A)	NEW	CHEVRON	19 V 10-00-00-00-00	accentron	N No Marin	Socialista	750	600	Sec. 11(2)	00000	boolvesti			MLI
D4-6(A)	NEW	CHEVRON	MC10	390	SB	LHS	750	600	0.45	0.5	90XL	£ 1	~	
D4-6(A)	NEW	CHEVRON	MC10	400	SB	LHS	750	600	0.45	0.5	90XL	1	18	
D4-1-1	REMOVE	UNIDIRECTIONAL HAZARD MARKER	MC10	375	SB	LHS	1.57	-	1871		-	2.5.	-	
CUSTOM	RETAIN	DUNHEVED GOLF CLUB	MC10	380	SB	LHS		•	4.50	Fi-		i.e.		
CUSTOM	RETAIN	SYDNEY WATER VEGETATION REGENERATION SCHEME	MC10	405	SB	LHS		•	-		-			
CUSTOM	RELOCATE	SYDNEY WATER RECYCLED WATER SITE	MC10	420	SB	LHS	-	-	-		ī	y-	-	RELOCATE SIGN FACE TO NEW SIGN POST LOCATION
CUSTOM	RELOCATE	SYDNEY WATER RECYCLED WATER SITE	MC10	420	SB	LHS	(*)	-	-	1.5	90XL	2	60% OF SIGN FACE WIDTH	ALL DIMENSIONS ARE AS EXISTING. USE RELOCATED SIGN FACE
R5-400(L)(A)	NEW	NO STOPPING LEFT	MC10	440	NB	LHS	450	225	0.10	2.5	90XL	Ĭ	-	
W1-1(R)	REMOVE	RIGHT TURN	MC10	440	SB	MEDIAN			-	2	2	X2	<u> </u>	
W2-207-2(A)	NEW	WARNING DRIVEWAYS ON CURVE	MC10	440	SB	LHS	775	550	0.43	2.5	90XL	1) [
R5-400(R)(A)	NEW	NO STOPPING RIGHT	MC10	460	SB	LHS	450	225	0.10	2.5	90XL	11	Ē	
W1-3(L)(A)	NEW	LEFT CURVE	MC10			1112	600	600		2.5				
W8-2(A)	NEW	35KM/HR ADVISORY SPEED LIMIT	MC10	480	NB	LHS	300	600	0.54	2.5	90XL	1	-	
W1-8(R)	NEW	TILTING TRUCK RIGHT	MC10	520	NB	LHS	3000	1500	4.50	2.5	90XL	2	900	
CUSTOM	RETAIN	SYDNEY WATER RECYCLED WATER SITE	MC10	815	NB	LHS	393	-		2.5	90XL	2	60% OF SIGN FACE WIDTH	ALL DIMENSIONS ARE AS EXISTING. USE RELOCATED SIGN FACE
W2-9(A)	NEW	CURVED ROAD SIDE ROAD JUNCTION	MC10	900	NB	LHS	600	600	0.36	2.5	90XL	1	4	
R4-1(A)	NEW	50 KM/HR	MC10	920	NB	LHS	600	450	0.27	2.5	90XL	1	=	
R5-400(R)(A)	NEW	NO STOPPING RIGHT	MC10	940	SB	LHS	450	225	0.10	2.5	90XL	1) <u>P</u> 18	
R5-400(L)(A)	NEW	NO STOPPING LEFT	MC10	940	NB	LHS	450	225	0.10	2.5	90XL	1		
R1-2(A)	NEW	GIVE WAY	MC10	965	EB	LHS	750	0	0.28	2.5	90XL	1	-	LOCATED ON GOLF COURSE ACCESS ROAD
R5-400(R)(A)	NEW	NO STOPPING RIGHT	MC10	1000	NB	LHS	450	225	0.10	2.5	90XL	1	-	
W5-18	REMOVE	ROAD ENDS	MC10	980	WB	LHS		 	-			-		LOCATED ON GOLF COURSE ACCESS ROAD
R4-1	REMOVE	60 KM/HR	MC10	985	EB	LHS		 	-		<u> </u>	-		LOCATED ON GOLF COURSE ACCESS ROAD
W2-14(R)(A)	NEW	T INTERSECTION CURVE APPROACH RIGHT	MC10	990	EB	LHS	600	600	0.36	2.5	90XL	1	<u>-</u>	Ellipsi participsi delegati del altra participsi della proprio della pro
W2-14(K)(A)	17000000		TO THE PERSON NAMED IN COLUMN	1000000		NO. 100 (NO. 1	600	-	2000000	100000	NO PROPERTY.	1		LOCATED ON GOLF COURSE ACCESS ROAD
NOTE:	NEW	50 KM/HR F-00031.	MC10	1020	SB	LHS	600	450	0.27	2.5	90XL	1	-	NOT FOR CONSTRU
DOCUMENT NUMBER / NAI	ме 1-RF-DRG-00011		DESIGN L	OT CODE DESIGN I	MODEL FILE(S) USED FOR (OCUMENTATION OF TI	HIS DRAWING			PLOT DATE 1 Novembe	E/TIME PI er 2019 - 11:33:46 AM Frew, J	LOT BY CLIENT		PENRITH CITY COUNCIL (PCC) LINKS ROAD
EXTERNAL REFERENCE FI		REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL SCALES	ON A3 SIZE DRAWING		DRA	WINGS / DESIGN PR	REPARED BY	TITLE	NAME	DATE	lov love	LINKS ROAD EXTENSION
		1 01.11.19 ISSUE FOR DEVELOPMENT APPLICATION		0 SCALE	10 20 1:1000m	30 40	50	11	Sp	DRAWN DRG CHEC DESIGN DESIGN CHECKER	JOHN FREW K CLAUDIO BIDART HUGH ROWLAND ECK DANIEL PARK	01.11.19 01.11.19 01.11.19 01.11.19 PREPARED	lendlease	FROM THE DUNHEVED PRECINCT TO CHRIS' ROAD FURNITURE SIGNAGE AND LINEMARKI PORTION 1 - SIGN SCHEDULE SH
					NATE SYSTEM	HEIGHT D	MITTAC	GPO Box 539	George Street, Sydney 4, NSW 2001, Australia	DESIGN MA		01.11.19 LENDLE	ASE COMMUNITIES	ISSUE STATUS EDMS No. SHEET No.
					ZONE 56	A.H.D.	A. Om	Tel: +61 2 9272 5	5100 Fax: +61 2 9272 ! wsp.com	101	WINGR JAMES WALLIS	01.11.19		ISSUE STATUS DEVELOPMENT APPLICATION SHEET NO. RF-000

Document Set ID: 9184220 Version: 1, Version Date: 22/06/2020



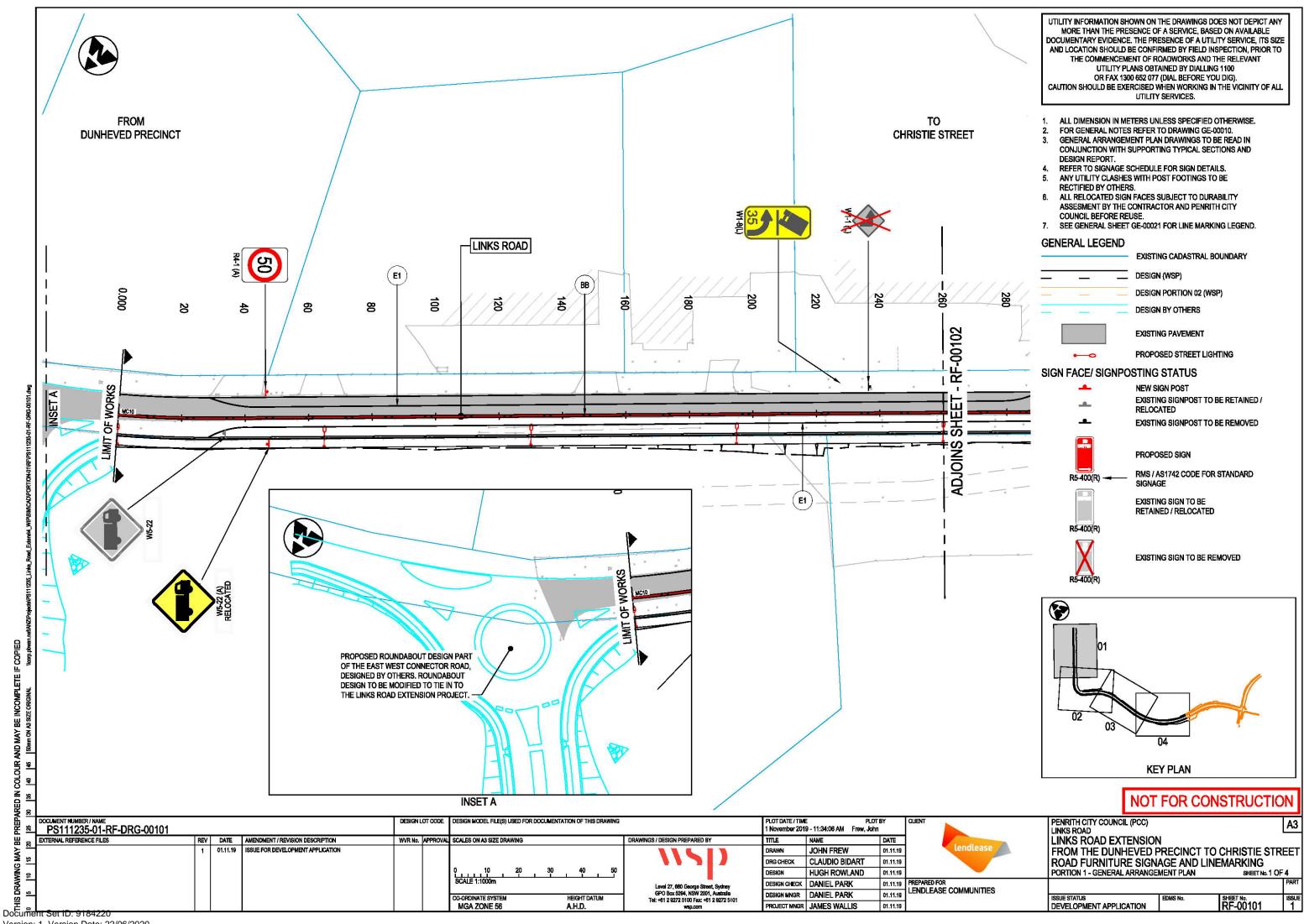


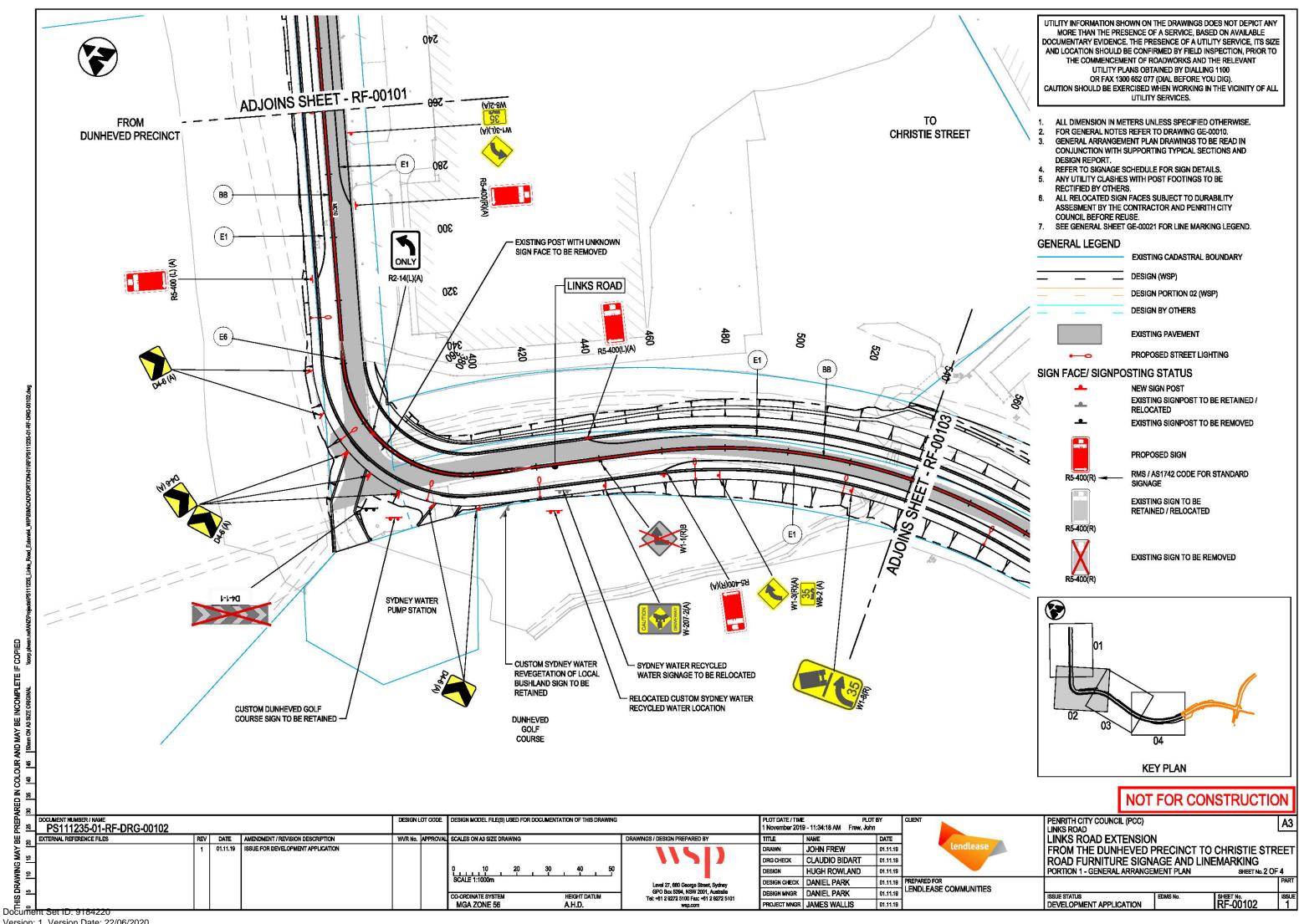


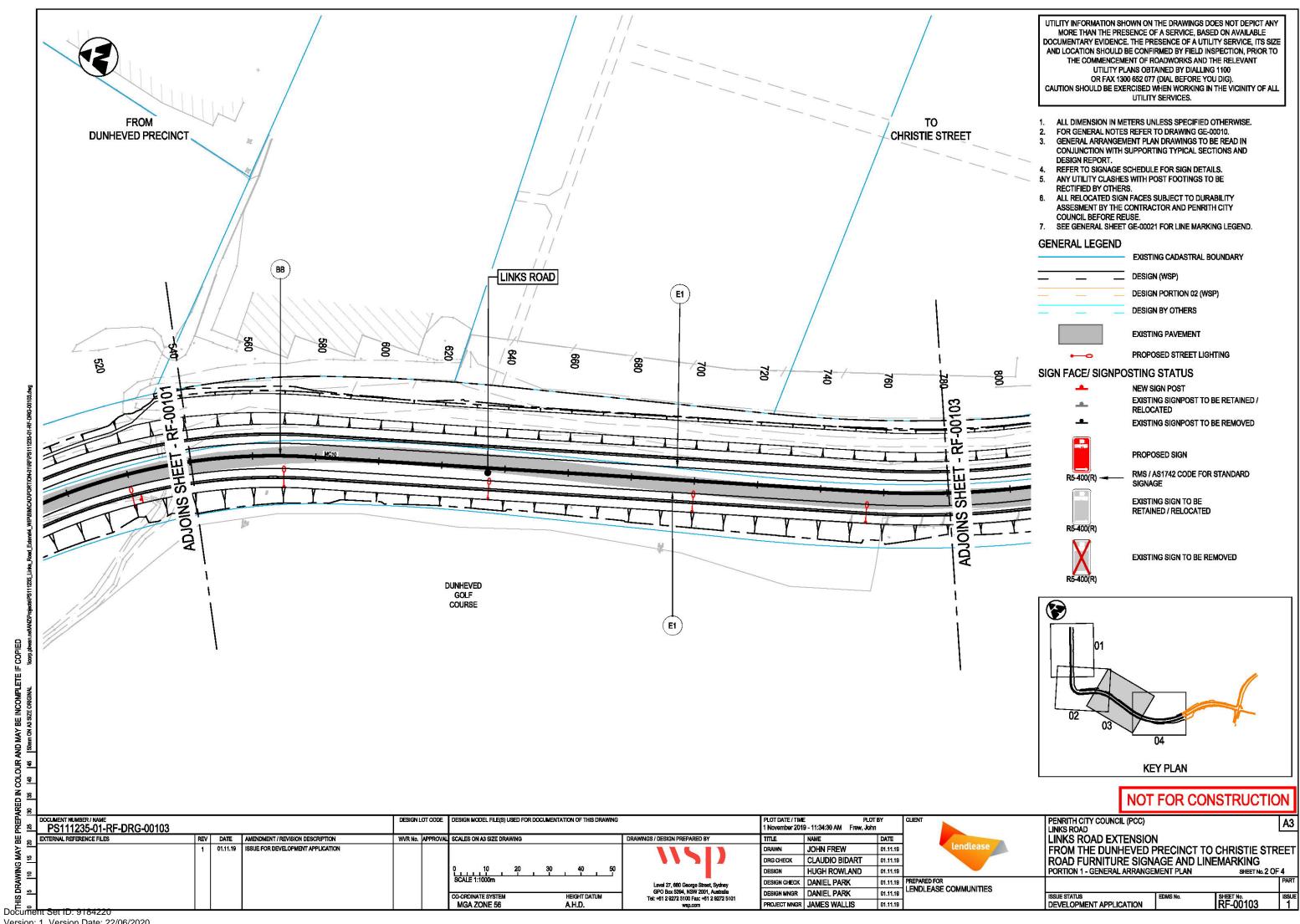
TYPICAL SECTION - B FRANGIBLE SION TRAFFICABLE RAISED MEDIAN / TRAFFIC ISLAND NOT TO SCALE

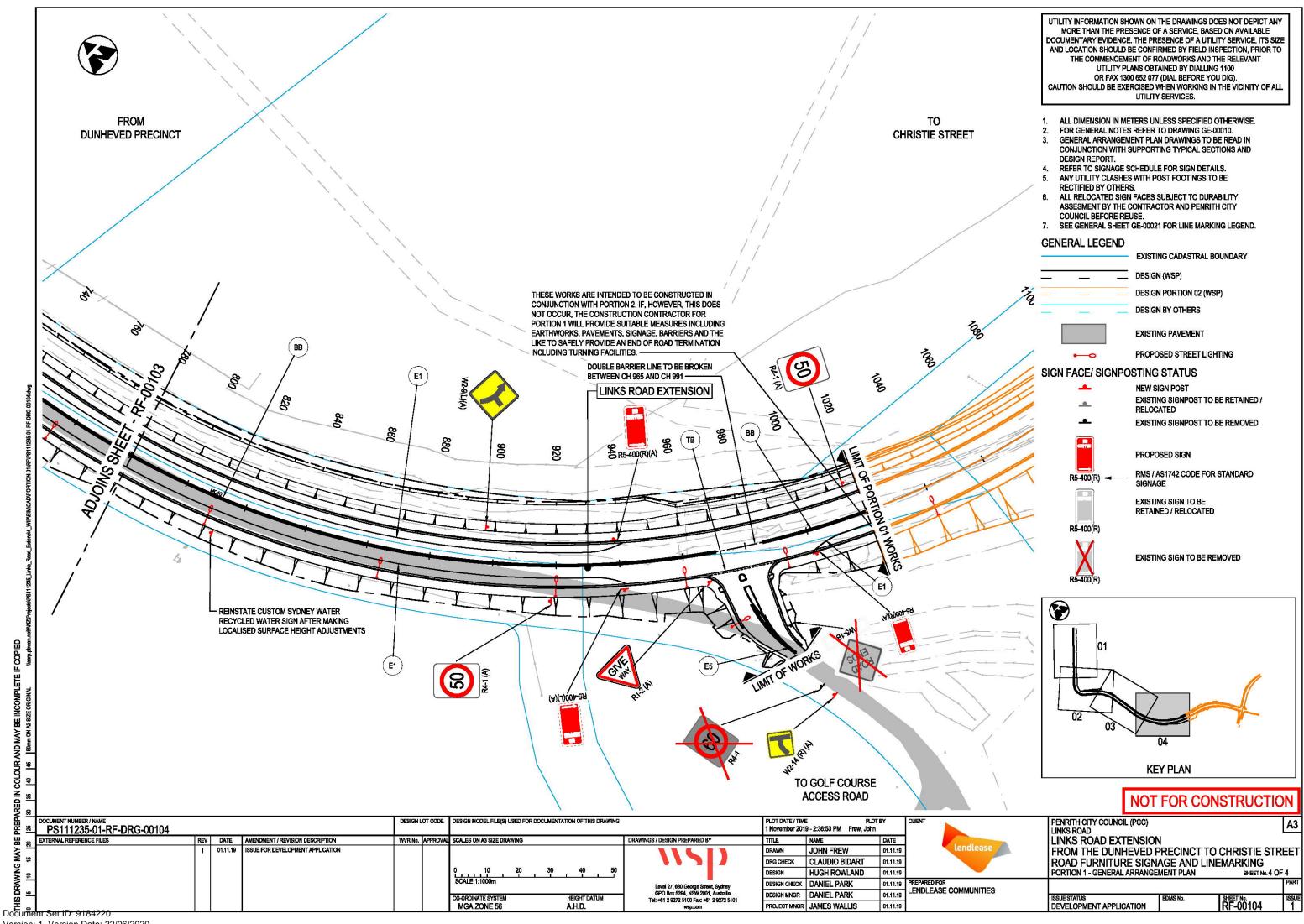
		POST SPECIFICATIONS			F001	INGS
CHS	POST DIMENSIONS	PIPE GRADE	WALL THICKNESS	GRADE	"D" (mm)	"L" (mm)
0.10	90NB	XL	3.2	C350L 0	250	630

ARED II	8												NO	T FOR CC	NSTRUCTION	NC
PREP/		ENT NUMBER / NAME 1111235-01-RF-DRG-00031				DESIGN LO	CODE DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING		PLOT DATE / TIM 1 November 201	IE PLO1 19 - 11:33:53 AM Frew, Joh		CLIENT	PENRITH CITY COUNCIL (PCC) LINKS ROAD			А3
出	EXTERN	AL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	PROVAL SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		LINKS ROAD EXTENSION	ON		
₹			1	01.11.19	ISSUE FOR DEVELOPMENT APPLICATION			11211	DRAWN	JOHN FREW	01.11.19	lendlease	FROM THE DUNHEVED	PRECINCT T	O CHRISTIE STR	REET
≥	5							11711	DRG CHECK	CLAUDIO BIDART	01.11.19		ROAD FURNITURE SIG			
ĭ ĕ	-						0 10 20 30 40 50		DESIGN	HUGH ROWLAND	01.11.19	_	PORTION 1 - DETAILS		SHEET No. 1 O)F1
₹	7						SCALE 1:1000m	Level 27, 680 George Street, Sydney	DESIGN CHECK	DANIEL PARK		PREPARED FOR				PART
占	a						GO OPPONINTE OVOTEN	GPO Box 5394, NSW 2001, Australia	DESIGN MNGR	DANIEL PARK	01.11.19	LENDLEASE COMMUNITIES	IONIE CTATIO	Leonari	I OUTT U	100115
₽	_ [CO-ORDINATE SYSTEM HEIGHT DATUM MGA ZONE 56 A.H.D.	Tel: +61 2 9272 5100 Fax: +61 2 9272 5101		JAMES WALLIS	01.11.19	1	ISSUE STATUS DEVELOPMENT APPLICATION	EDMS No.	SHEET No. RF-00031	ISSUE 1
Docur	nent Set	r iD: 9184220					■ ************************************	* 1000 * 100 W 19			1,000,000,000	•		•	1 23001	









LONGITUDINAL PIT AND PIPE SCHEDULE

PIT NAME	COVER (m)	PIT TYPE	DRAWING REFERENCE	EASTING	NORTHING	SETOUT RL (mAHD)	PIT DEPTH** (m)	UPSTREAM INVERT (mAHD)	DOWNSTREAM INVERT (mAHD)	PIPE LENGTH (m)	PIPE SIZE (mm)	PIPE CLASS	PIPE TYPE	DURABILITY CLASS	DS PIT
DL-L0340-A-01	0.870	SO1 (EXISTING)		292911.921	6264603.797	19.692	1.549	18.200	18.060	13.693	(2x)900Wx600H (EXISTING)	RCBC (EXISTING)	NORMAL	CLASS B1	DL-L0340-A-02
DL-L0340-A-02	0.912	KERB INLET PIT (#)	PCC SD2001	292902.408	6264613.637	19.871	2.152	17.719	17.648	14.224	1200.000	RCP 3	NORMAL	CLASS B1	DL-L0340-A-03
DL-L0340-A-03	0.910	KERB INLET PIT SAG^	PCC SD2001	292892.131	6264603.803	19.755	2.107	17.648	17.396	50.507	1200.000	RCP 3	NORMAL	CLASS B1	DL-L0340-A-04
DL-L0340-A-04	1.400	KERB INLET PIT*	PCC SD2001	292855.640	6264568.885	19.993	2.597	17.396	17.146	50.044	1200.000	RCP 3	NORMAL	CLASS B1	DL-L0340-A-05
DL-L0340-A-05	1.772	KERB INLET PIT*	PCC SD2001	292819.482	6264534.287	20.117	2.971	17.146	16.894	50.383	1200.000	RCP 3	NORMAL	CLASS B1	DL-L0340-A-06
DL-L0340-A-06	2.339	KERB INLET PIT*	PCC SD2001	292783.079	6264499.455	20.425	3.532	16.894	16.513	76.067	1200.000	RCP 3	NORMAL	CLASS B1	DL-L0340-A-07
DL-L0340-A-07	3.467	KERB INLET PIT*	PCC SD2001	292728.120	6264446.866	21.176	4.663	16.513	16.251	52.410	1200.000	RCP 3	NORMAL	CLASS B1	DL-L0340-A-08
DL-L0340-A-08	4.044	KERB INLET PIT*	PCC SD2001	292690.253	6264410.633	21.502	5.250	16.251	16.113	27.739	1200.000	RCP 3	NORMAL	CLASS B1	DL-L0340-A-09
DL-L0340-A-09	4.753	KERB INLET PIT*	PCC SD2001	292671.265	6264390.411	21.391	5.278	16.113	15.751	72.319	1200.000	RCP 3	NORMAL	CLASS B1	DL-L0340-A-10
DL-L0340-A-10		HW-1200	RMS R0210-03	292599.608	6264380.648	15.751	1.200	-	-		-			CLASS B1	-
DL-L0540-A-01	1.100	KERB INLET PIT	PCC SD2001	292884.085	6263854.768	22.224	1.511	20.713	20.511	39.443	375.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-02
DL-L0540-A-02	1.152	KERB INLET PIT	PCC SD2001	292857.334	6263883.752	22.018	1.648	20.370	20.230	28.005	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-03
DL-L0540-A-03	1.146	KERB INLET PIT	PCC SD2001	292840.890	6263906.421	21.871	1.642	20.230	20.081	29.804	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-04
DL-L0540-A-04	1.148	KERB INLET PIT	PCC SD2001	292825.910	6263932.186	21.715	1.646	20.070	19.888	36.283	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-05
DL-L0540-A-05	1.140	KERB INLET PIT	PCC SD2001	292811.406	6263965.444	21.526	1.637	19.888	19.705	36.604	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-06
DL-L0540-A-06	1.132	KERB INLET PIT	PCC SD2001	292801.151	6264000.582	21.334	1.643	19.691	19.348	68.538	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-07
DL-L0540-A-07	1.132	KERB INLET PIT	PCC SD2001	292790.316	6264068.258	20.970	1.645	19.325	18.985	68.019	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-08
DL-L0540-A-08	1.192	KERB INLET PIT	PCC SD2001	292780.294	6264135.535	20.606	1.646	18.960	18.807	31.145	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-09
DL-L0540-A-09	1.254	KERB INLET PIT SAG^	PCC SD2001	292775.705	6264166.340	20.511	1.704	18.807	18.724	27.542	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-10
DL-L0540-A-10	1.408	KERB INLET PIT	PCC SD2001	292771.647	6264193.582	20.586	1.862	18.724	18.592	44.173	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-11
DL-L0540-A-11	1.987	KERB INLET PIT	PCC SD2001	292760.197	6264236.245	20.781	2.189	18.592	18.552	13.294	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-12
DL-L0540-A-12	-	HW-450	RMS R0210-01	292747.537	6264240.299	18.552	0.450	-	-	(-)	1.	6 	•	CLASS B1	-
DL-L0540-B-01	1.142	KERB INLET PIT	PCC SD2001	292867.347	6263892.046	22.017	1.582	20,435	20.370	13.002	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-02
DL-L0540-C-01	1.142	KERB INLET PIT	PCC SD2001	292837.587	6263937.905	21.717	1.582	20.135	20.070	13.003	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-04
DL-L0540-D-01	1.142	KERB INLET PIT	PCC SD2001	292813.998	6264002.710	21.338	1.582	19.756	19.691	13.021	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-06
DL-L0540-E-01	1.142	KERB INLET PIT	PCC SD2001	292803.218	6264069.881	20.972	1.582	19.390	19.325	13.004	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-07
DL-L0540-F-01	1.142	KERB INLET PIT SAG^	PCC SD2001	292788.563	6264168.256	20.511	1.582	18.929	18.864	13.000	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-09
DL-L0540-G-01	1.142	KERB INLET PIT	PCC SD2001	292784.505	6264195.497	20.586	1.582	19.005	18.940	13.000	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-10
DL-L0540-H-01	1.548	KERB INLET PIT	PCC SD2001	292755.983	6264272.492	20.706	1.988	18.718	18.653	13.000	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-09
DL-L0540-I-01	1.210	KERB INLET PIT	PCC SD2001	292734.275	6264300.292	20.466	1.650	18.816	18.751	13.001	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-08
DL-L0540-J-01	0.720	KERB INLET PIT	PCC SD2001	292680.177	6264380.034	20.557	1.462	19.095	19.037	19.305	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-02
DL-L0540-J-02	0.549	KERB INLET PIT	PCC SD2001	292678.547	6264360.798	20.221	1.184	19.037	18.994	14.535	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-03
DL-L0540-J-03	0.576	KERB INLET PIT SAG ⁴	PCC SD2001	292684.771	6264347.664	20.018	1.025	18.994	18.952	13.763	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-04
DL-L0540-J-04	0.671	KERB INLET PIT	PCC SD2001	292694.590	6264338.020	20.138	1.186	18.952	18.932	6.974	525.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-05

NOTES

- ALL PITS TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL, "DESIGN GUIDELINES FOR ENGINEERING WORKS FOR SUBDIVISIONS AND DEVELOPMENTS" (PCC, DESIGN GUIDELINES)

 - ALL HEADWALLS (HW) AND NON-COUNCIL PITS REFER TO RMS STANDARD DRAWINGS R0200 STORMWATER SERIES
- KERB INLET PIT REFER DETAILS FROM PCC, DESIGN GUIDELINES, APPENDIX 11, STANDARD DRAWINGS, SD2001
- A KERB INLET PIT SAG REFER DETAILS FROM PCC, DESIGN GUIDELINES, APPENDIX 11, STANDARD DRAWINGS, SD2001; AND
- SECTION 3.7.2 SAG INLETS TO BE CONSTRUCTED WITH MINIMUM 2.4M INTERNAL LINTEL SIZE
- SF REFER GULLY PIT TYPE SF DETAILS FOR MEDIAN FROM RMS STANDARD DRAWINGS R0220-09, R0220-11, R0220-12, R0220-13
- * PITS DEPER THAN 2000mm TO INVERT SHALL BE STRUCTURALLY DESIGNED.
- ** IN ACCORDANCE WITH PCC, DESIGN GUIDELINES, SECTION 3.8.1 REINFORCED CONCRETE REQUIRED FOR PIT DEPTH >1.5m (NOTE 10); AND APPROVED STEP IRONS REQUIRED FOR PIT DEPTHS >1.2m, (NOTE 5).

 (#) SPECIAL PIT REQUIRED TO ALLOW CONNECTION FROM EXISTING (2X)900WX600H RCBC INLET AND 1200mm PIPE OUTLET.

NOT FOR CONSTRUCTION PENRITH CITY COLINCIL (PCC)

MENT NUMBER / NAME S111235-01-SM-DRG-00011				DESIGNI	LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING		PLOT DATE / TIM 1 November 201	E PLOT BY 19 - 11:46:36 AM Frew. John	<i>'</i>	CLIENT	PENRITH CITY COUNCIL (PCC) LINKS ROAD			A
NAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVA	IVAL SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE		DATE		LINKS ROAD EXTENSION	J		
	1	01.11.19	ISSUE FOR DEVELOPMENT APPLICATION				11611	DRAWN	JOHN FREW	01.11.19		FROM THE DUNHEVED P		CHRISTIE STF	₹EF
				Í			1171	DRG CHECK	CLAUDIO BIDART 0	01.11.19		STORMWATER MANAGE	MENT - PORT	TON 1	
				Í				DESIGN	TOTAL COLLEGE	01.11.19		SCHEDULES	18 1880 - 1800 -	SHEET No. 1 OF	F3
				Í			Level 27, 680 George Street, Sydney	DESIGN CHECK	MANISHA DHUNGEL	01.11.19	PREPARED FOR LENDLEASE COMMUNITIES				PAI
				ĺ		CO-ORDINATE SYSTEM HEIGHT DATUM	GPO Box 5394, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101	DESIGN MNGR	ALIŞTAIR KELLY	01.11.19	LENDLEASE COMMUNITIES	ISSUE STATUS	EDMS No.	SHEET No.	ISS
						MGA ZONE 56 A.H.D.	wsp.com	PROJECT MNGR	JAMES WALLIS	11.11.19		DEVELOPMENT APPLICATION		SM-00011	1

Version: 1, Version Date: 22/06/2020

LONGITUDINAL PIT AND PIPE SCHEDULE

PIT NAME	COVER (m)	PIT TYPE	DRAWING REFERENCE	EASTING	NORTHING	SETOUT RL (mAHD)	PIT DEPTH** (m)	UPSTREAM INVERT (mAHD)	DOWNSTREAM INVERT (mAHD)	PIPE LENGTH (m)	PIPE SIZE (mm)	PIPE CLASS	PIPE TYPE	DURABILITY CLASS	DS PIT
DL-L0540-J-05	0.863	SF	RMS R0220-09, R0220-11, R0220-12, R0220-13	292689.680	6264333.067	20.312	1.380	18.932	18.914	5.900	525.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-06
DL-L0540-J-06	0.790	KERB INLET PIT*	PCC SD2001	292685.611	6264328.794	20.430	1.516	18.914	18.867	15.643	525.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-07
DL-L0540-J-07	0.796	KERB INLET PIT SAG ^A	PCC SD2001	292696.989	6264318.060	20.185	1.318	18.867	18.751	38.639	525.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-08
DL-L0540-J-08	1.191	KERB INLET PIT	PCC SD2001	292724.874	6264291.312	20.467	1.716	18.751	18.653	32.723	525.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-09
DL-L0540-J-09	1.536	KERB INLET PIT	PCC SD2001	292745.011	6264265.518	20.705	2.061	18.644	18.580	21.370	525.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-10
DL-L0540-J-10	1.640	KERB INLET PIT	PCC SD2001	292755.465	6264246.880	20.781	2.201	18.580	18.552	9.417	525.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-11
DL-L0540-J-11	-	HW-450	RMS R0210-01	292746.937	6264242.885	18.552	0.525	=		=	Ē		=	CLASS B1	5
DL-L0540-K-01	1.131	SF	RMS R0220-09, R0220-11, R0220-12, R0220-13	292675.608	6264386.499	21.032	1.450	19.581	19.378	15.258	375.000	RCP 3	NORMAL	CLASS B1	DL-L0540-K-02
DL-L0540-K-02	1.131	SF	RMS R0220-09, R0220-11, R0220-12, R0220-13	292671.101	6264371.922	20.815	1.452	19.363	19.161	15.083	375.000	RCP 3	NORMAL	CLASS B1	DL-L0540-K-03
DL-L0540-K-03	1.131	SF	RMS R0220-09, R0220-11, R0220-12, R0220-13	292672.422	6264356.897	20.601	1.452	19.148	19.004	15.045	375.000	RCP 3	NORMAL	CLASS B1	DL-L0540-K-04
DL-L0540-K-04	1.037	SF	RMS R0220-09, R0220-11, R0220-12, R0220-13	292679.268	6264343.499	20.447	1.470	18.976	18.932	14.739	375.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-05
DL-L0540-L-01	0.796	KERB INLET PIT	PCC SD2001	292705.346	6264328.033	20.180	1.184	18.996	18.952	14.678	375.000	RCP 3	NORMAL	CLASS B1	DL-L0540-J-04
DL-L0540-M-01	1.142	KERB INLET PIT	PCC SD2001	292793.182	6264137.247	20.607	1.582	19.025	18.960	13.002	450.000	RCP 3	NORMAL	CLASS B1	DL-L0540-A-08
DL-L0960-A-01	1.135	KERB INLET PIT	PCC SD2001	293115.118	6263762.441	23.553	1.512	22.042	21.917	24.806	375.000	RCP 3	NORMAL	CLASS B1	DL-L0960-A-02
DL-L0960-A-02	1.135	KERB INLET PIT	PCC SD2001	293093.083	6263773.834	23.424	1.512	21.913	21.792	24.074	375.000	RCP 3	NORMAL	CLASS B1	DL-L0960-A-03
DL-L0960-A-03	1.135	KERB INLET PIT	PCC SD2001	293070.632	6263782.522	23.299	1.512	21.787	21.663	24.364	375.000	RCP 3	NORMAL	CLASS B1	DL-L0960-A-04
DL-L0960-A-04	1.144	KERB INLET PIT	PCC SD2001	293047.174	6263789.108	23.171	1.649	21.522	21.163	69.782	450.000	RCP 3	NORMAL	CLASS B1	DL-L0960-A-05
DL-L0960-A-05	1.144	KERB INLET PIT	PCC SD2001	292980.216	6263808.757	22.793	1.649	21.144	20.882	51.320	450.000	RCP 3	NORMAL	CLASS B1	DL-L0960-A-06
DL-L0960-A-06	1.159	KERB INLET PIT	PCC SD2001	292934.469	6263832.015	22.512	1.647	20.864	20.718	29.290	450.000	RCP 3	NORMAL	CLASS B1	DL-L0960-B-01
DL-L0960-B-01	1.669	KERB INLET PIT	PCC SD2001	292910.595	6263848.983	22.351	2.192	20.159	20.000	31.865	450.000	RCP 3	NORMAL	CLASS B1	DL-L0960-B-02
DL-L0960-B-02	()=.)	HW-450	RMS R0210-01	292886.367	6263828.282	20.000	0.450	-	-1	(1■,	-		•)	CLASS B1	
DL-L0960-C-01	1.135	KERB INLET PIT	PCC SD2001	293012.588	6263784.790	22.998	1.512	21.486	21.279	39.426	375.000	RCP 3	NORMAL	CLASS B1	DL-L0960-C-02
DL-L0960-C-02	1.103	KERB INLET PIT	PCC SD2001	292975.043	6263796.824	22.791	1.582	21.209	21.176	26.740	375.000	RCP 3	NORMAL	CLASS B1	DL-L0960-C-03
DL-L0960-C-03	0.995	KERB INLET PIT	PCC SD2001	292950.677	6263807.838	22.651	1.475	21.176	21.144	26.752	375.000	RCP 3	NORMAL	CLASS B1	DL-L0960-E-01
DL-L0960-D-01	1.142	KERB INLET PIT	PCC SD2001	293043.437	6263776.649	23.169	1.582	21.587	21.522	13.007	450.000	RCP 3	NORMAL	CLASS B1	DL-L0960-A-04
DL-L0960-E-01	1.142	KERB INLET PIT	PCC SD2001	292927.434	6263821.083	22.511	1.582	20.929	20.864	13.001	450.000	RCP 3	NORMAL	CLASS B1	DL-L0960-A-06

- ALL PITS TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL, "DESIGN GUIDELINES FOR ENGINEERING WORKS FOR SUBDIVISIONS AND DEVELOPMENTS" (PCC, DESIGN GUIDELINES)

 - ALL HEADWALLS (HW) AND NON-COUNCIL PITS REFER TO RMS STANDARD DRAWINGS R0200 STORMWATER SERIES
- KERB INLET PIT REFER DETAILS FROM PCC, DESIGN GUIDELINES, APPENDIX 11, STANDARD DRAWINGS, SD2001
- A KERB INLET PIT SAG REFER DETAILS FROM PCC, DESIGN GUIDELINES, APPENDIX 11, STANDARD DRAWINGS, SD2001; AND SECTION 3.7.2 - SAG INLETS TO BE CONSTRUCTED WITH MINIMUM 2.4M INTERNAL LINTEL SIZE
- SF REFER GULLY PIT TYPE SF DETAILS FOR MEDIAN FROM RMS STANDARD DRAWINGS R0220-09, R0220-11, R0220-12, R0220-13
- * PITS DEPER THAN 2000mm TO INVERT SHALL BE STRUCTURALLY DESIGNED.
- ** IN ACCORDANCE WITH PCC, DESIGN GUIDELINES, SECTION 3.8.1 REINFORCED CONCRETE REQUIRED FOR PIT DEPTH >1.5m (NOTE 10); AND APPROVED STEP IRONS REQUIRED FOR PIT DEPTHS >1.2m, (NOTE 5).

 (#) SPECIAL PIT REQUIRED TO ALLOW CONNECTION FROM EXISTING (2X)900WX600H RCBC INLET AND 1200mm PIPE OUTLET.

NOT FOR CONSTRUCTION

8															
8	DOCUMENT NUMBER / NAME PS111235-01-SM-DRG-00012			DESIGN	LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING		PLOT DATE / TIM 1 November 20	NE PLOT B 19 - 11:46:43 AM Frew, John			PENRITH CITY COUNCIL (PCC) LINKS ROAD	pi.		A3
9 8	EXTERNAL REFERENCE FILES R	EV DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		LINKS ROAD EXTENSION	l		
<u> </u>		1 01.11.	9 ISSUE FOR DEVELOPMENT APPLICATION				11211	DRAWN	JOHN FREW	01.11.19	lendlease	FROM THE DUNHEVED F	RECINCT TO	CHRISTIE STR	(EET
<u> </u>	1						1171	DRG CHECK	CLAUDIO BIDART	01.11.19		STORMWATER MANAGE			
								DESIGN	TO THE EDITION OF	01.11.19		SCHEDULES		SHEET No. 2 OF	F3
<u> </u>	1						Level 27, 680 George Street, Sydney	DESIGN CHECK	MANISHA DHUNGEL	01.11.19	PREPARED FOR				PART
<u> </u>						CO-ORDINATE SYSTEM HEIGHT DATUM	GPO Box 5394, NSW 2001, Australia	DESIGN MNGR	ALIŞTAIR KELLY	01.11.19	LENDLEASE COMMUNITIES	ISSUE STATUS	EDMS No.	SHEET No.	ISSUE
						MGA ZONE 56 A.H.D.	Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com	PROJECT MNGR	JAMES WALLIS	01.11.19		DEVELOPMENT APPLICATION		SHEET No. SM-00012	1

Document Set ID: 9184220

CROSS DRAINAGE HEADWALL AND PIPE SCHEDULE

PIT NAME	COVER (M)	PIT TYPE	DRAWING REFERENCE	EASTING	NORTHING	SETOUT RL (MAHD)	UPSTREAM INVERT (MAHD)	DOWNSTREAM INVERT (MAHD)	PIPE LENGTH (M)	PIPE SIZE (Mm)	PIPE CLASS	PIPE TYPE	DURABILITY CLASS	DS PIT
540-A	1.100	HW-CS2_1050-U	RMS R0210-06	292783.320	6264246.729	18.698	18.698	18.552	36.355	(2x)1050	RCP 2	NORMAL	CLASS B1	540-B
540-B		HW-CS2_1050	RMS R0210-06	292747.336	6264241.547	18.552	•		= 2			:=	CLASS B1	
960-A	1.100	HW-CS2_600-U	RMS R0210-05	292917.237	6263862.069	20.852	20.852	20.000	45.555	(2x)600	RCP 2	NORMAL	CLASS B1	960-B
960-B	(.en)	HW-CS2_600	RMS R0210-05	292885.790	6263829.109	20.000	-	=		(=	=		CLASS B1	•

WATER QUALITY SWALE SCHEDULE

LABEL	FROM (MC10)	OFFSET (MC10)	TO (MC10)	LENGTH (m)	LINING	DESCRIPTION	DRAWING REFERENCE
OD-540-A	368.144	12.430	524.541	152.433	GRASS	BIORETENTION SWALE - SIDE SLOPES 1 IN 2 BASE WIDTH 0.6 MIN DEPTH 0.3	PS111235-01-SM-DRG-00102
OD-540-B	959.772	23.960	528.687	414.430	GRASS	BIORETENTION SWALE - SIDE SLOPES 1 IN 2 BASE WIDTH 6 MIN DEPTH 0.5	PS111235-01-SM-DRG-00102
OD-960-A	1153.649	23.086	959.772	188.276	GRASS	BIORETENTION SWALE - SIDE SLOPES 1 IN 2 BASE WIDTH 2 MIN DEPTH 0.4	PS111235-01-SM-DRG-00104

SCOUR PROTECTION SCHEDULE - CIVIL CULVERTS

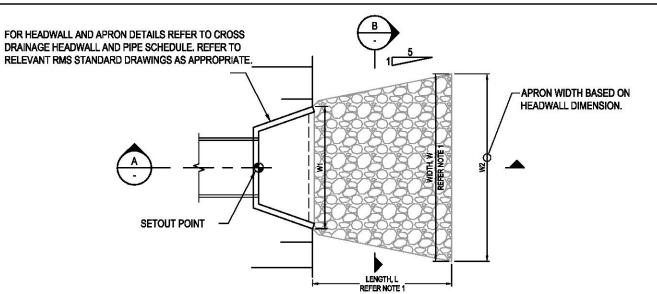
PIT NO.	SCOUR TAG	REFERENCE	TYPE	D50 (M)	APRON THICKNESS, 2xD50 (m)	APRON LENGTH, L (m)	APRON START WIDTH W1 (m)	APRON END WIDTH W2 (m)	REMARKS
DL-L0340-A-10	RR-L0340-A-10	PS111235-01-SM-DRG-00102	RIP RAP APRON	0.10	0.20	3.60	5.20	6.64	
DL-L0540-B	RR-L0540-B	PS111235-01-SM-DRG-00102	RIP RAP APRON	0.40	0.80	6.30	6.89	9.41	
DL-L0540-J-11	RR-L0540-J-11	PS111235-01-SM-DRG-00102	RIP RAP APRON	0.40	0.80	6.30	6.89	9.41	
DL-L0540-A-12	RR-L0540-A-12	PS111235-01-SM-DRG-00102	RIP RAP APRON	0.40	0.80	6.30	6.89	9.41	
DL-L0960-B	RR-L0960-B	PS111235-01-SM-DRG-00104	RIP RAP APRON	0.35	0.70	3.60	3.70	5.14	
DL-L0960-B-02	RR-L0960-B-02	PS111235-01-SM-DRG-00104	RIP RAP APRON	0.35	0.70	3.60	3.70	5.14	

- FOR TYPICAL DETAILS OF WATER QUALITY BIO-RETENTION SWALE, REFER TO DRAWING PS111235-01-SM-DRG-00021.
 FOR TYPICAL DETAILS OF SCOUR PROTECTION, REFER TO DRAWING PS111235-01-SM-DRG-00021.

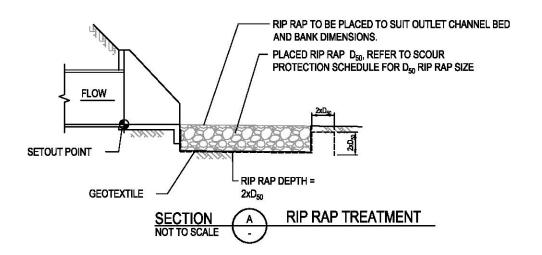
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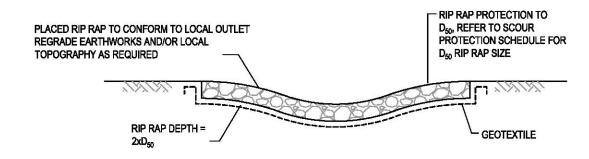
63					20.	NAME OF THE PARTY		63730			92				
83	DOCUMENT NUMBER / NAME PS111235-01-SM-DRG-00013				DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAW!	NG	PLOT DATE / TIM 1 November 20	ME PLOT I 19 - 11:46:49 AM Frew, John			PENRITH CITY COUNCIL (PCC) LINKS ROAD		N. Carlotte	А3
8	EXTERNAL REFERENCE FILES	(EV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No. APPROV	AL SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LINKS ROAD EXTENSION			
	1	1 1	01.11.19	ISSUE FOR DEVELOPMENT APPLICATION			11611	DRAWN	JOHN FREW	01.11.19	lendlease	FROM THE DUNHEVED PR	RECINCT TO CH	RISTIE STRF	EET
5	4						1171	DRG CHECK	CLAUDIO BIDART	01.11.19		STORMWATER MANAGEM	IENT - PORTION	11	
₽							1	DESIGN	Telle DELED I DI 10	01.11.19		SCHEDULES		SHEET No. 3 OF 3	3
_	1						Level 27, 680 George Street, Sydney	DESIGN CHECK	MANISHA DHUNGEL	01.11.19	PREPARED FOR			7	PART
10						CO-ORDINATE SYSTEM HEIGHT DATUM	GPO Box 5394, NSW 2001, Australia	DESIGN MNGR	ALISTAIR KELLY	01.11.19	LENDLEASE COMMUNITIES	ISSUE STATUS ET	DMS No. SHE	ET N-	ISSUE
						MGA ZONE 56 A.H.D.	Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com	PROJECT MNGF	JAMES WALLIS	01.11.19		DEVELOPMENT APPLICATION	ISN SNO.	≆™. <i>I</i> I-00013	1

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PLAN OF RIP RAP APRON NOT TO SCALE







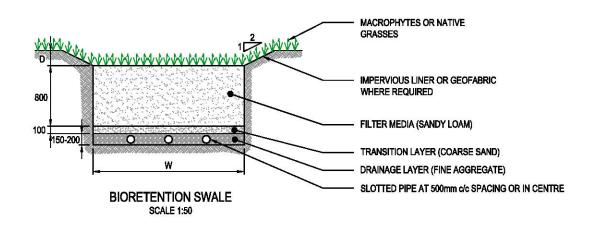
SCOUR PROTECTION NOTES

- . REFER TO DRAINAGE GENERAL ARRANGEMENT DRAWINGS PS111235-01-SM-DRG-00101 TO 00104 AND SCHEDULES ON DRAWING PS111235-01-SM-DRG-00013 FOR SCOUR PROTECTION DIMENSIONS.
- 2. RIP RAP (SCOUR ROCK) CRITERIA TO APPLY TO ALL RIP RAP INSTALLATIONS.
- 3. RIP RAP SHALL CONSIST OF CLEAN, HARD, DURABLE ROCK. THE RIP RAP SHALL BE PLACED IN SUCH A MANNER THAT INDIVIDUAL ROCKS ARE INTERLOCKING, SMALLER ROCK INTERFILL SHALL BE PLACED IN VOIDS AS REQUIRED TO PROVIDE A HARD DURABLE SURFACE.
- GEOTEXTILE SHALL BE IN ACCORDANCE WITH PC SPECIFICATION R63 AND THE MANUFACTURER SPECIFICATIONS
- ROCK FOR RIP RAP SHALL HAVE A MINIMUM SPECIFIC GRAVITY OF 2.4, A MINIMUM POINT LOAD STRENGTH INDEX (ISSO) OF 1MPa AND WET STRENGTH VARIATION OF NO MORE THAN 35%.
- 6. THE GRADATION OF ROCK USED FOR RIP RAP SHALL BE:

ROCK GRADATION
D ₅₀ = VARIES
D ₁₅ = 0.75 D ₅₀
D ₈₅ = 1.5 D ₅₀
D ₁₀₀ = 2.0 D ₅₀

ACTUAL D_{50} SHALL BE WITHIN 10% OF THE SPECIFIED NOMINAL DIAMETER. D^85/D^15 SHALL FALL BETWEEN THE RANGE OF 1.5 MIN AND 2.5 MAX.

- . RIP RAP SHALL BE PLACED IN A MANNER THAT PREVENTS DAMAGE TO THE GEOTEXTILE.
- PROPOSED BIO-RETENTION AND PLANT SELECTION TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH PCC, WSUD TECHNICAL GUIDELINES



LOCATION	SWALE WIDTH (W)	SWALE DEPTH (D)	GRADE (S)
CH 370 - 540	0.6m	0.3m	0.50%
CH 530 - 960	6.0m	0.5m	0.50%
CH 960 - 1200	2.0m	0.4m	0.50%

WATER QUALITY SWALE NOTES

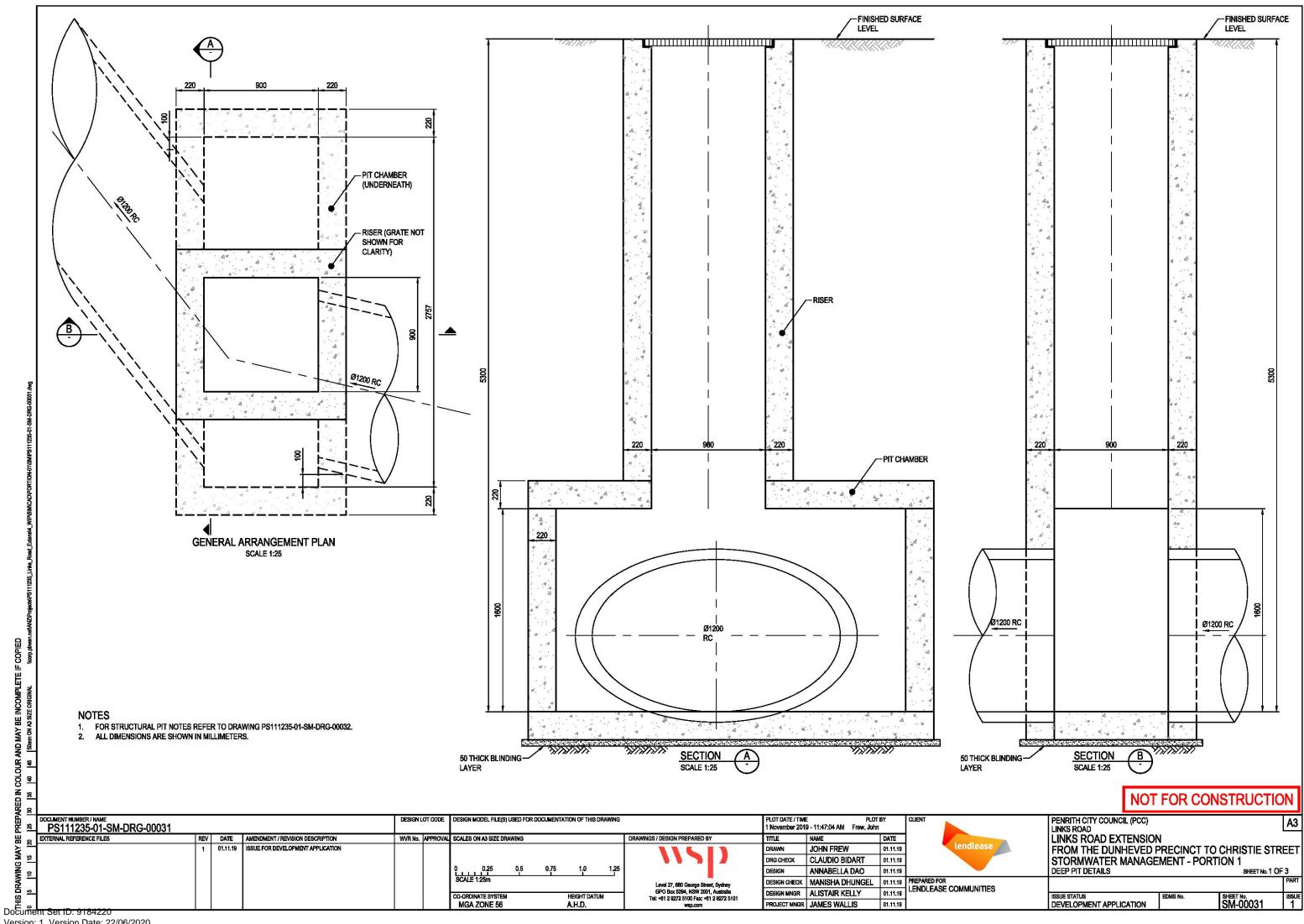
 PROPOSED BIO-RETENTION AND PLANT SELECTION TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH PENRITH CITY COUNCIL, WSUD TECHNICAL GUIDELINES

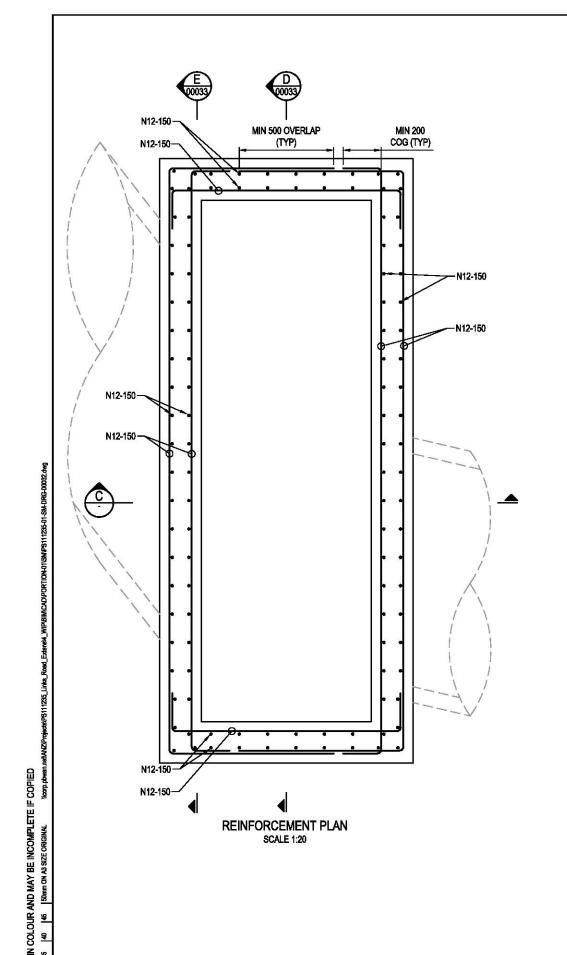
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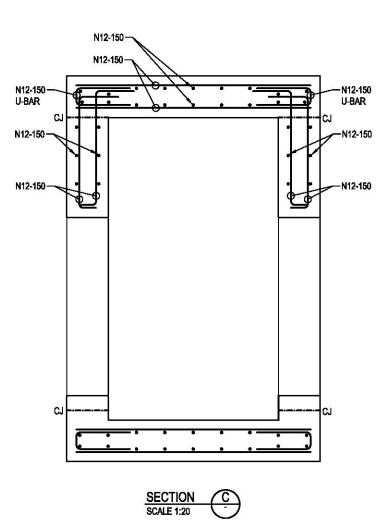
PLOT DATE / TIME PLOT E 1 November 2019 - 11:46:56 AM Frew, John ESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWIN PENRITH CITY COUNCIL (PCC) PS111235-01-SM-DRG-00021 LINKS ROAD EXTENSION XTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET STORMWATER MANAGEMENT - PORTION 1 SSUE FOR DEVELOPMENT APPLICATION JOHN FREW 01.11.19 CLAUDIO BIDART DRG CHECK 01.11.19 ANNABELLA DAQ TYPICAL DETAILS SHEET No. 1 OF 1 01.11.19 DESIGN CHECK MANISHA DHUNGEL 01.11.19 ENDLEASE COMMUNITIES ESIGN MINGR ALISTAIR KELLY 01.11.19 SM-00021 DEVELOPMENT APPLICATION MGA ZONE 56 A.H.D. PROJECT MNGR JAMES WALLIS 01.11.19

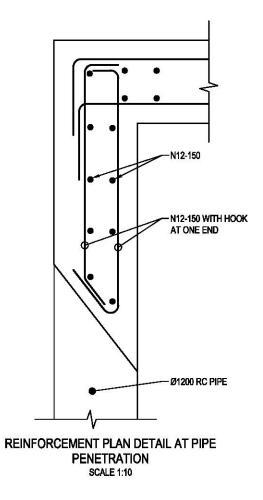
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Document Set ID: 9184220









- FOR GENERAL NOTES REFER TO DRAWINGS PS111235-01-GE-DRG-00010 AND 00011.
- ALL DRAINAGE PIPE WORKS TO BE IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARDS.
- PRECAST PITS MAY BE A SUITABLE ALTERNATIVE SUBJECT TO PRINCIPAL APPROVAL. WHERE PROVIDED, PRECAST PIT UNITS TO BE INSTALLED IN ACCORDANCE WITH SUPPLIERS SPECIFICATIONS.
- STEP IRONS TO BE PROVIDED TO AS1657 AT 300mm CENTRES. PLACE FIRST STEP IRON AT 1.8m BELOW COVER LEVEL. FINAL STEP IRON A MAXIMUM OF 600mm FROM BASE.
- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS.
- PIPES TO BE CONNECTED TO PIT IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARDS.
- MATERIAL IN FRAMES AND GRATES TO BE MILD STEEL, HOT DIPPED GALVANISED IN ACCORDANCE WITH
- PROVIDE SUBSURFACE DRAINS INTO PITS WHERE SHOWN IN SUBSURFACE DRAINAGE PLANS. REFER TO PAVEMENT DESIGN PACKAGE.
- CONCRETE EXPOSURE CLASSIFICATION B1 U.N.O.
- MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF REINFORCED CONCRETE SHALL BE 32MPa. REINFORCEMENT BAR SHALL BE HOT ROLLED DEFORMED BAR TO AS/NZ4671 GRADE 500N.
- UNLESS SHOWN OTHERWISE ON THE DRAWINGS, LAPS ON THE ADJACENT BARS ON ANY FACE SHALL BE STAGGERED BY NO LESS THEN THE LAP LENGTH. UNLESS OTHERWISE SPECIFIED, THE MINIMUM DEVELOPMENT LENGTH OF LAPS SHALL BE AS SHOWN IN THE
- WHERE MORE THAN 50% OF BARS ARE TO BE LAPPED IN ANY ONE CROSS SECTION, THE LAP SHOWN IN THE TABLE SHALL BE INCREASED BY A FACTOR OF 1.3 U.N.O.

9	BAR SIZE	N12	N20
	LAP LENGTH: HORIZONTAL BAR WITH >300mmCONCRETE CAST BELOW	525	1000
	OTHER BARS	400	750

NOT FOR CONSTRUCTION

PLOT DATE / TIME PLOT BY 1 November 2019 - 11:47:11 AM Frew, John DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING PENRITH CITY COUNCIL (PCC) PS111235-01-SM-DRG-00032 LINKS ROAD EXTENSION XTERNAL REFERENCE FILES REV DATE AMENDMENT / REVISION DESCRIPTION SCALES ON A3 SIZE DRAWING FROM THE DUNHEVED PRECINCT TO CHRISTIE STREET STORMWATER MANAGEMENT - PORTION 1 ISSUE FOR DEVELOPMENT APPLICATION JOHN FREW CLAUDIO BIDART DRG CHECK 01.11.19 ANNABELLA DAQ DEEP PIT DETAILS 01.11.19 SHEET No. 2 OF 3 DESIGN CHECK MANISHA DHUNGEL 01.11.19 LENDLEASE COMMUNITIES DESIGN MINGR ALISTAIR KELLY 01.11.19 SHEET No. SM-00032 DEVELOPMENT APPLICATION MGA ZONE 56 A.H.D. PROJECT MNGR JAMES WALLIS 01.11.19 Document Set ID: 9184220

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