



Civic Centre
Postal

45 Princes Highway, Werribee, Victoria 3030, Australia
PO Box 197, Werribee, Victoria 3030, Australia

Telephone
Facsimile
Email

(03) 9742 0777
(03) 9741 6237
mail@wyndham.vic.gov.au
www.wyndham.vic.gov.au

DX 30258 Werribee Vic
ABN: 38 393 903 860

Your Ref:

Our Ref: SDW2105/16
WYP6863/13

Enquiries: Andrew Quach
Tel: (03) 9742 0760

23 May 2018

Adit Kakkar
Taylors Development Strategists Pty Ltd
8/270 Ferntree Gully Road
NOTTING HILL VIC 3168

Dear Adit,

RE: EMERALD PARK STAGE 7 - CONSTRUCTION PLAN APPROVAL

Please be advised that the road and drainage construction plans submitted to Council for Emerald Park Stage 7 are approved subject to the following conditions:-

1. **Prior to commencement of works, an on-site pre-commencement meeting must be held between Council, the Engineering Consultant and the Contractor. Please contact Norman Ngui from Council on 0437 994 819 to book a precommencement meeting.**
2. **Prior to installation of any Tactile Ground Surface Indicators, the proposed product must be inspected and approved by Council. Please notify Councils construction supervisor to book an inspection prior to installation.**
3. **Prior to commencement of works, the Plan of Subdivision must be certified by Council.**
4. **Prior to commencement of approved works within ANY existing road reserves, the consultant/contractor MUST apply for consent to work within the road reserves from Council or any other relevant responsible authorities. The Contractor will be responsible for maintain all existing assets within the limit of works as demonstrated on the approved plans.**
5. **A free-flowing drainage outlet must be established and maintained throughout the entirety of construction works. No road boxing works are to commence in the absence of a free-flowing drainage outlet.**
6. Prior to commencement of works, the consultant/contractor shall provide to Council the following information:-
 - source of quarry material; and
 - optimum moisture content and maximum modified dry density of the F.C.R to be used (from N.A.T.A. approved laboratory).If the source of the quarry material is changed during the course of the works, new test results shall be provided.
7. Prior to the commencement of works, a Site Environmental Management Plan (SEMP) must be submitted to and **approved** by Council.
8. Construction is to commence within twelve (12) months of approval, otherwise construction plans and specifications are to comply with design standards current at the time of re-submission.

9. Filled allotments shall be compacted in 150mm maximum layers, with compaction tests being taken at not more than 300mm lift on all allotments and filled areas. The test results and location of the tests on each allotment shall be forwarded to Council.
10. Wyndham City Council Specifications and standard details shall be read in conjunction with the approved plans.
11. Prior to Council issuing a Statement of Compliance, pursuant to the Subdivision Act 1988, your firm shall provide to Council the following:
 - Payment of construction supervision fees amounting to 2.5% of the total cost of road and drainage works;
 - Payment of a maintenance bond amounting to 5% of the total cost of road and drainage works;
 - An electronic copy of all as constructed drawings and relevant files in both AutoCad DWG and Adobe PDF file formats, to either subdiveng@wyndham.vic.gov.au or via Objective Connect. Please note that the minimum resolution of PDF files required is 300dpi;
 - An electronic copy of drainage catchment plans and detailed computations in Adobe PDF file format to either subdiveng@wyndham.vic.gov.au or via Objective Connect;
 - As constructed asset information for drainage and related assets in digital format in accordance with "D-Spec" to either subdiveng@wyndham.vic.gov.au or via Objective Connect; and
 - As-constructed asset information for assets within the road reserve in digital format in accordance with "R-Spec" to either subdiveng@wyndham.vic.gov.au or via Objective Connect; and
 - The A.H.D levels and M.G.A co-ordinates of the high stability P.S.Ms.
 - For further information please see: <https://www.wyndham.vic.gov.au/subdivisionguidelines>
12. Easements are to be created to cover all services which cross any part of private allotments.
13. During construction of works under this permit, access to and egress from the subject land must be via a route designed and approved by the Council. Where practical this access should be remote from established residential areas.
14. Provide Landscaping Plan for approval by Council. Please contact subdivlud@wyndham.vic.gov.au to arrange a pre-application meeting prior to the submission of landscape plans for municipal reserves and/or public open space.
15. WorkSafe Victoria is to be advised via E-mail (construction@workcover.vic.gov.au) of these Subdivisional works with the following details:
 - Name of the principal contractor
 - Name and phone contact of relevant Engineering Consultants supervisor dealing with the works
 - Brief description of the works
 - Locality/address of the works
 - Estimated commencement date of the works, and
 - Expected completion date of the works.
16. In undertaking the construction works, the developer shall ensure all works are undertaken in accordance with the OH & S Act, Regulation and Codes, and shall maintain a safe workplace for Council's staff undertaking inspections. The supervision of works by Council staff only extends to the quality of Council's future infrastructure and does not include ensuring that the works are undertaken safely.

Please find a set of stamped approved plans attached.

Yours sincerely,



STAN PESKA

ENGINEERING SUBDIVISIONS CO-ORDINATOR

Encl: (1) Stamped approved plans



*Planning and Environment Act 1987
Wyndham Planning Scheme*

*Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018*

EMERALD PARK

STAGE 7

CIVIL WORKS

WYNDHAM CITY COUNCIL

1121 DOHERTYS ROAD, TARNEIT VIC 3029

TAYLORS

Urban Development | Infrastructure

8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168, Australia

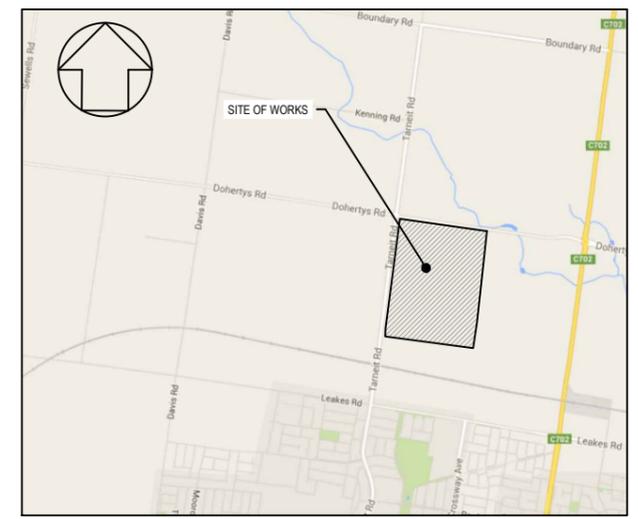
Tel: 61 3 9501 2800 | Web: taylorstds.com.au

GENERAL NOTES

- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH EDM GUIDELINES, WYNDHAM CITY COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS. WORKS SHALL BE CARRIED OUT TO THE SATISFACTION OF THE SUPERINTENDENT OR HIS/her REPRESENTATIVE.
- THE COUNCIL AND ALL SERVICE AUTHORITIES SHOULD BE NOTIFIED BY THE CONTRACTOR, IN WRITING, SEVEN DAYS PRIOR TO COMMENCEMENT OF THE WORKS. ALL EXISTING SERVICES IN THE VICINITY OF THE WORKS ARE TO BE LOCATED PRIOR TO COMMENCEMENT.
- THE CONTRACTOR SHALL ENSURE THAT NO POLLUTANT OR SEDIMENT LADEN RUNOFF IS DISCHARGED DIRECTLY OR INDIRECTLY INTO ANY DRAINS OR WATER COURSES AND THAT WORKS CONFORM TO THE ENVIRONMENTAL MANAGEMENT PLAN.
- RUNOFF FROM AREAS ON WHICH EARTHWORKS ARE CARRIED OUT MUST BE COLLECTED AND TREATED TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY BY THE USE OF OPEN DRAINS, FILTRATION TRAPS AND RETARDING BASINS IN THE PERIOD BETWEEN THE COMMENCEMENT OF CONSTRUCTION WORKS AND THE END OF THE MAINTENANCE PERIOD IN ACCORDANCE WITH THE ENVIRONMENTAL MANAGEMENT PLAN FOR THE SUBDIVISION CONSTRUCTION WORKS.
- THE CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL HEALTH AND SAFETY PROCEDURES AND REQUIREMENTS.
- AT LEAST 3 DAYS BEFORE COMMENCING EXCAVATION OF TRENCHES IN EXCESS OF 1.5m DEPTH, A COMPLETED "NOTICE OF INTENTION TO COMMENCE TRENCHING OPERATIONS" FORM SHALL BE SENT TO WORKSAFE VICTORIA. THE NOMINATED SUPERVISOR SHALL BE SUITABLY QUALIFIED IN ACCORDANCE WITH THE VICTORIAN OHS ACT 1985 & COMMONWEALTH OHS CODE OF PRACTICE 2008.
- THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC., NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION AND FOR THE PROTECTION OF THE PUBLIC.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS APPROVAL IS GIVEN BY COUNCIL'S LANDSCAPE OFFICER OR REMOVAL HAS BEEN GRANTED IN A PLANNING PERMIT.
- DISPOSAL OF EXCESS SPOIL- TRUCK ROUTE AND DISPOSAL LOCATION SHALL BE APPROVED BY THE SUPERINTENDENT.
- ALL AREAS SHOWN ON THE DRAWINGS TO BE CUT OR FILLED ARE TO BE STRIPPED OF TOPSOIL TO A DEPTH AS SPECIFIED IN GEOTECHNICAL REPORT PREPARED BY GEOTESTA 06 SEPTEMBER 2017. UPON COMPLETION OF THE BULK EARTHWORKS, THE TOPSOIL IS TO BE SPREAD TO A DEPTH OF 100mm OVER THE AREA AND GRADED TO FINISHED LEVELS SHOWN ON THE DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT. ALL FILLING ON LOTS IN EXCESS OF 200mm IS TO BE CARRIED OUT IN ACCORDANCE WITH A.S 3798 APPENDIX B, SECTION B2(A) 'LEVEL 1'. AT COMPLETION, THE CONTRACTOR SHALL PRESENT A SOIL REPORT FROM A N.A.T.A TESTING AUTHORITY, NOMINATING THE EXTENT OF FILL AND ITS CONFORMANCE WITH THE SPECIFICATION. FILLING IS TO BE CARRIED OUT USING APPROVED MATERIAL. TOPSOIL AND ALL VEGETABLE MATERIAL TO BE STRIPPED FROM FILL SITE PRIOR TO ANY PLACEMENT OF MATERIAL. ALL FILLING IS TO BE COMPACTED IN 150mm. MIN. DEPTH LAYERS TO 95% OF AS1289.5.1.1 (STANDARD COMPACTION).
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' RC OR FRC PIPES UNLESS OTHERWISE SHOWN. ALL RC PIPES UP TO AND INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED, INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS MAY BE USED ON PIPES OVER 750mm DIA. WITH APPROVAL FROM WYNDHAM CITY COUNCIL.
- TELECOMM. CONDUITS AND CABLE DUCTS WILL BE LAID IN TRENCHES EXCAVATED AND BACKFILLED BY THE CONTRACTOR. THE CONTRACTOR SHALL GIVE THE TELECOMM. AUTHORITY AREA ENGINEER 7 DAYS NOTICE PRIOR TO COMMENCING WORK.
- 100mm DIAMETER AGRICULTURAL DRAINS TO BE CONSTRUCTED BEHIND ALL KERB AND CHANNEL IN ACCORDANCE WITH EDM FIGURE AND LAID AT A MINIMUM OF 300mm BELOW SUBGRADE OF ROAD PAVEMENT WITH CLEARANCE TO ALL SERVICE CONDUITS.
- WHERE DRAINAGE PIPES ARE LAID ON A CURVE THE BUILDING LINE IS TO BE PEGGED AT 15m INTERVALS.
- THE REINSTATEMENT AND COMPACTION OF SERVICE AUTHORITY TRENCHES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL P.S.M.s SHALL BE HIGH STABILITY TYPE AND LEVELLED BY A LICENSED SURVEYOR AND THE P.S.M. DATA SHALL BE FORWARDED TO COUNCIL.
- ALL CONDUIT ENDS SHALL BE PLUGGED WITH DRAW WIRE AS APPROPRIATE.
- ALL DRAINAGE TRENCHES WITHIN 5.0m OF ANY TREE TO BE RETAINED SHALL BE THRUST BORED OR HAND DUG.
- FILL MATERIAL UNDER ROAD PAVEMENT SHALL BE APPROVED MATERIAL AND CONSTRUCTED IN LAYERS OF 150mm THICKNESS WITH COMPACTION ACHIEVING 98% (STANDARD COMPACTION) AT THE EQUILIBRIUM MOISTURE CONTENT OR -1% TO +3% OF THE OPTIMUM.
- ALL LINEMARKING AND SIGNAGE SHALL BE IN ACCORDANCE WITH AS1742.1 AND AS1742.2. LONG LIFE PAINT SHALL BE USED FOR LINEMARKING.
- ALL ELECTRICITY CONDUITS ARE TO BE A MINIMUM 63mm DIAMETER. ALL TELSTRA CONDUITS ARE TO BE A MINIMUM 100mm DIAMETER. REFER TO ELECTRICAL AND TELECOMMUNICATION PLANS FOR DETAILS.
- THE CONTRACTOR SHALL NOTE THE EXISTENCE OF TELECOMMUNICATIONS, GAS POWER, WATER AND ANY OTHER SERVICES IN THE AREA PRIOR TO TENDERING / CONSTRUCTION.
- ANY DISTURBANCE TO EXISTING INFRASTRUCTURE DUE TO CONSTRUCTION WORKS SHALL BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.
- ALL NATURE STRIPS AND BATTERS SHALL BE COVERED WITH 100mm MIN. DEPTH TOPSOIL AND SEEDED WITH AN APPROVED SEED AND FERTILIZER MIXTURE AS PER GAA GUIDELINES.
- CONDUITS UNDER FOOTPATHS TO BE 450mm DEEP EXTENDING 250mm EITHER SIDE OF THE PATH. THE FOOTPATH ABOVE THE CONDUITS SHALL BE MARKED WITH TWO CONTRACTION JOINTS OVER THE CONDUITS 400mm APART.
 - CONDUITS SHALL BE REFERENCED ON BOTH FOOTPATH AND KERB & CHANNEL.
 - CONDUITS INSTALLED UNDER ROAD PAVEMENTS SHALL EXTEND 1 METRE INSIDE THE ALLOTMENTS WHERE FOOTPATH IS PROPOSED.
 - GAS TO BE 50mm DIA. CLASS 12 PVC & WATER CONDUIT TO BE DN100 SINGLE CONDUIT CONTAINING BOTH DW & NDW SERVICES LAID IN ACCORDANCE WITH WSA 03-2011-3.1 AND DRAWING MRWA-W-202 & MRWA-W-110.
- UPON COMPLETION OF THE WORKS THE WHOLE SITE SHALL BE CLEANED AND ALL RUBBISH REMOVED. LOTS ARE TO BE GRADED EVENLY AND THE SITE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.

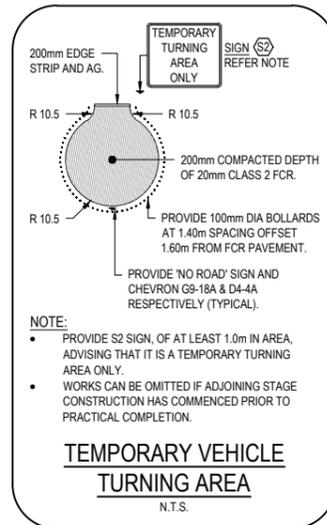
- NO TOPSOIL SHALL BE REMOVED FROM THE SITE.
- INSPECTIONS SHALL BE ARRANGED A MINIMUM OF 24 HOURS BEFORE WITH COUNCIL'S ASSETS ENGINEER.
- STREET SIGNS SHALL BE MANUFACTURED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS INCLUDING LOGO AND TO COMPRISE TWO FINGER BOARDS.
- 24 HOURS NOTICE IS REQUIRED FOR INSPECTION AT THE FOLLOWING HOLD POINTS:
 - PRIOR TO COMMENCEMENT OF THE WORKS.
 - INSPECTION OF THE SUBGRADE.
 - INSPECTION DURING DRAINAGE WORKS.
 - INSPECTION PRIOR TO POURING OF PITTS.
 - INSPECTION OF SUB SOIL DRAINAGE.
 - INSPECTION OF KERB AND CHANNEL BEDDING.
 - INSPECTION PRIOR TO ANY CONCRETE WORKS.
 - INSPECTION AND TESTING OF EACH PAVEMENT LAYER (BY DEVELOPER OR CONTRACTOR) PRIOR TO PLACING ANY SUBSEQUENT PAVEMENT LAYER. COMPACTION TEST RESULTS SHALL BE ISSUED TO COUNCIL.
 - INSPECTION PRIOR TO SEALING AND ASPHALT WORKS.
- COUNCIL WILL NOT ACCEPT ANY RESPONSIBILITY FOR WORKS WHERE AN INSPECTION IS NOT UNDERTAKEN WITH A COUNCIL APPOINTED REPRESENTATIVE.
- ALL DIMENSIONS ARE IN METRES AND RADII TO LIP OF KERB UNLESS OTHERWISE SHOWN.
- LEVELS ARE TO A.H.D. AND TAKEN FROM LEVEL PLANS BY TAYLORS DEVELOPMENT STRATEGISTS. SETOUT CO-ORDINATES ARE BASED ON MGA ZONE 55.
- PITS SHALL BE LOCATED USING OFFSETS AND CO-ORDINATES SHOWN ON DRAWINGS.
- ALL DRAINS BENEATH ROAD PAVEMENT, PATHS, DRIVEWAYS AND PARALLEL TO KERB SHALL BE BACKFILLED WITH 20mm CLASS 2 F.C.R. ALL BACKFILLING TO BE COMPACTED TO 98% OF AS1289.5.1.1 (STANDARD COMPACTION). DRAINS BEHIND THE BACK OF KERB SHALL BE BACKFILLED USING SELECT FILL. COMPACTION OF THE DRAINAGE LINE SHALL BE 95% STANDARD COMPACTION TO AS1289.5.1.1 AND ALL TEST RESULTS SHALL BE SUBMITTED TO COUNCIL.
- HOUSE DRAINS SHALL GENERALLY BE PLACED 5.5m FROM THE LOW CORNER OF THE LOT, AS PER GAA FIGURE 016 AND PROPERTY INLETS 1.0m FROM AND 0.6m BELOW THE LOW CORNER OF THE LOT, UNLESS OTHERWISE SHOWN.
- HOUSE NUMBERS TO BE STENCILED ON THE FACE OF KERB IN 100mm HIGH LETTERS.
- EXISTING OPEN CHANNELS TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED IN ACCORDANCE WITH NOTE 10. CONSULTING ENGINEER TO BE NOTIFIED WHEN THE OPEN CHANNELS HAVE BEEN EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO BASE BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE SUPERINTENDENT.
- ALL PAVEMENT MATERIALS ARE TO BE APPROVED BY WYNDHAM CITY COUNCIL.
- ALL PAVEMENTS ARE TO BE TESTED FOR ADEQUATE COMPACTION AND APPROVED PRIOR TO CONTINUING WORKS.
- PRIOR TO THE ISSUE OF A STATEMENT OF COMPLIANCE, ALL NEWLY CONSTRUCTED ROADS, FOOTPATHS AND DRAINAGE ASSETS ARE TO BE RECORDED UNDER THE 'D-SPEC' & 'R-SPEC' SYSTEM AS SETOUT IN THE GAA GUIDELINES AND THE RESULTS PROVIDED TO WYNDHAM CITY COUNCIL.
- NO FILL OR EXCAVATED MATERIAL FOR OR FROM THIS DEVELOPMENT IS TO BE CARTED/HAULED INTO OR FROM THE SITE, WITHOUT FIRST OBTAINING THE FURTHER WRITTEN CONSENT FROM COUNCIL'S ENGINEERING DEPARTMENT AT LEAST SEVEN (7) DAYS PRIOR TO THE CARTAGE/HAULAGE WORKS COMMENCING, TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY.
- ALL EARTHWORKS MUST BE UNDERTAKEN IN A MANNER THAT MINIMISES SOIL EROSION, AND ANY EXPOSED AREAS OF SOIL MUST BE STABILISED TO PREVENT SOIL EROSION TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY.
- EROSION MUST BE CONTROLLED DURING CONSTRUCTION IN ACCORDANCE WITH THE ENVIRONMENT PROTECTION AUTHORITY GUIDELINE TG208/90. CONTRACTOR TO PROVIDE SITE EMP.
- ALL VEGETATION THAT IS REMOVED AND DISPOSED OF MUST:
 - NOT CAUSE DAMAGE TO VEGETATION STANDS TO BE RETAINED.
 - HAVE REGARD TO THE LOCAL LAW WHEN BURNING VEGETATION.
- NATIVE VEGETATION REMOVAL TO BE LIMITED TO THE SPECIFIC PLANTS IDENTIFIED AS PART OF THE PLANNING PERMIT. NO ADDITIONAL NATIVE PLANTS, OUTSIDE OF THOSE SPECIFIED IN THE PLANNING PERMIT, ARE TO BE REMOVED.
- NO POLLUTED AND/OR SEDIMENT LADEN RUNOFF IS TO BE DISCHARGED, DIRECTLY OR INDIRECTLY, INTO MELBOURNE WATER'S DRAINS OR WATERCOURSES.
- BEFORE THE VEGETATION REMOVAL STARTS, THE BOUNDARIES OF ALL VEGETATION TO BE REMOVED AND RETAINED MUST BE CLEARLY MARKED WITH TEMPORARY FENCING, TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY. THE REMOVAL MUST BE IN ACCORDANCE WITH THE ENDORSED PLAN.
- PRIOR TO FELLING, TREES IDENTIFIED FOR REMOVAL MUST BE EXAMINED FOR THE PRESENCE OF FAUNA, INCLUDING THOSE USING EXTERNAL NESTS (e.g COMMON RINGTAIL POSSUMS, BIRDS NESTS) AND TREE HOLLOWYS. IF NATIVE FAUNA SPECIES ARE LOCATED, THEY ARE TO BE SALVAGED AND RELOCATED IN ACCORDANCE WITH ALL RELATIVE LEGISLATION AND APPROVALS. FURTHER TO CONSULTATION WITH THE DEPARTMENT OF SUSTAINABILITY AND ENVIRONMENT.
- ALL VEHICLES, EARTHMOVING EQUIPMENT AND OTHER MACHINERY MUST BE CLEARED OF SOIL AND PLANT MATERIAL BEFORE ENTERING AND LEAVING THE SITE, TO PREVENT THE SPREAD OF WEEDS AND PATHOGENS
- DRIVEWAYS TO BE EXCAVATED INTO ALLOTMENTS AT A MAXIMUM GRADE OF 1 IN 5 WHERE BATTERS EXCEED 600mm.
- DRIVEWAY LAYBACK AND WINGS ARE TO BE CONSTRUCTED AS A SINGLE SEGMENT OF CONCRETE.
- ALL NBN PITS ARE TO BE CLEAR OF PATHS AND DRIVEWAYS.
- CONTRACTOR TO PROVIDE CCTV TESTING ON ALL CONSTRUCTED DRAINAGE LINES AND TO BE APPROVED BY COUNCIL PRIOR TO THE ISSUE OF STATEMENT OF COMPLIANCE.
- ALL RESIDENTIAL AND HEAVY DUTY DRIVEWAYS TO BE CONSTRUCTED ACCORDING TO EDM STANDARD DRAWINGS.

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LOCALITY PLAN
N.T.S.
MELWAYS REF MAP 359 C10,C11,D10,D11

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018



WARNING
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SETOUT INFORMATION PROVIDED ON THIS PLAN WITH THE DESIGN INTENT WHICH INCLUDES, BUT IS NOT LIMITED TO ITEMS SUCH AS LENGTHS, CO-ORDINATES, SETOUT DIMENSIONS AND PEGGED TITLES BY THE PRINCIPAL'S LICENSED SURVEYOR.

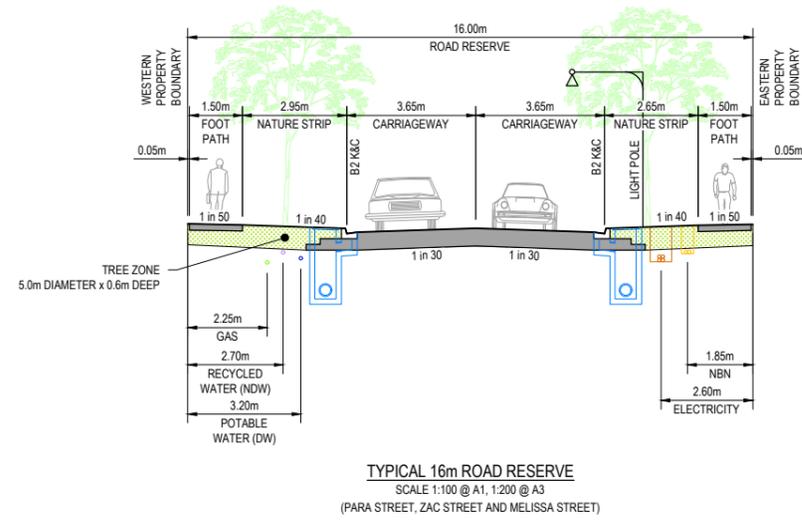
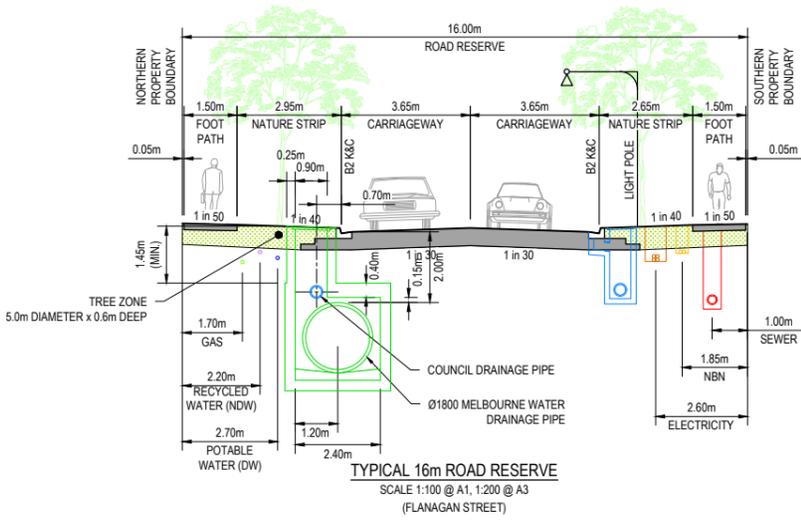
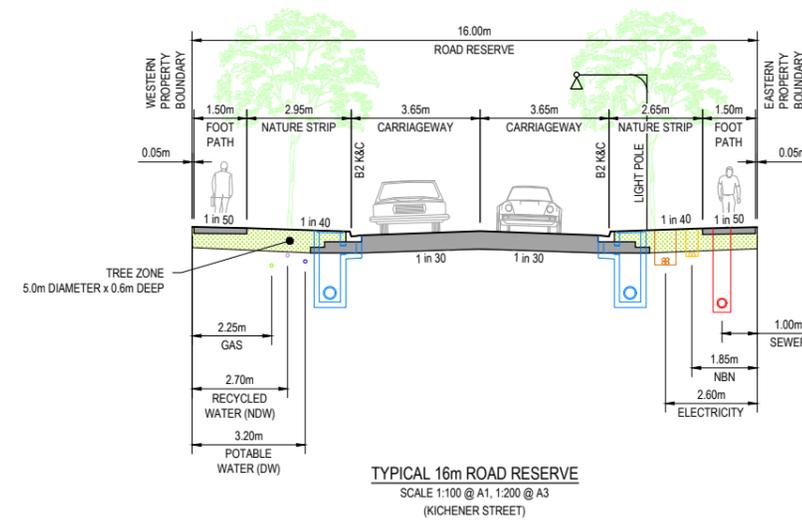
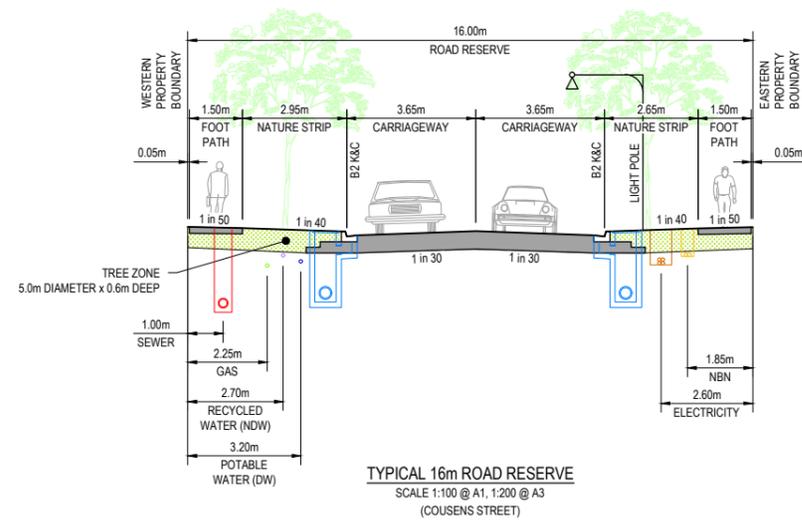
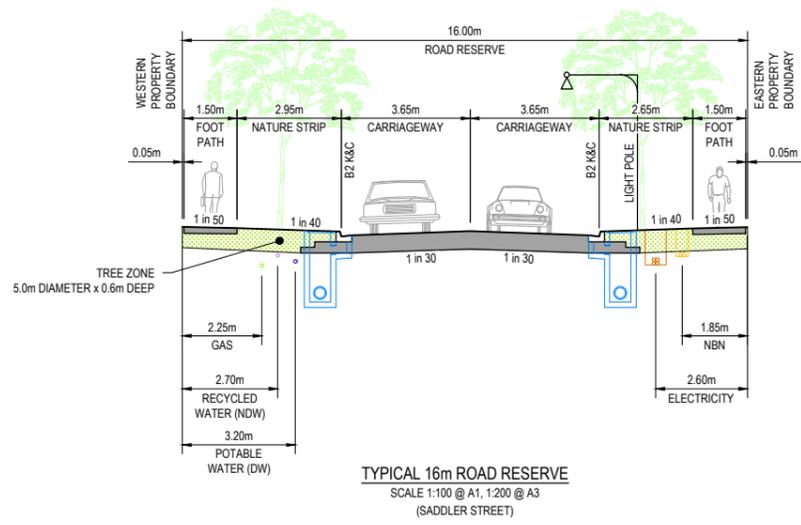
WARNING
BWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVED ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. A MOCS ENQUIRY ON 1100 MUST BE MADE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.

CONSTRUCTION
ISSUED FOR CONSTRUCTION

STREET	GAS		RECYCLED WATER (NDW)		POTABLE WATER (DW)		NBN		ELECTRICAL CABLES		SEWER	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
SADDLER STREET	WEST	2.25m	WEST	2.70m	WEST	3.20m	EAST	1.85m	EAST	2.60m	-	-
FLANAGAN STREET	NORTH	1.70m	NORTH	2.20m	NORTH	2.70m	SOUTH	1.85m	SOUTH	2.60m	SOUTH	1.00m
CRILLY STREET	NORTH	2.25m	NORTH	2.70m	NORTH	3.20m	SOUTH	1.85m	SOUTH	2.60m	SOUTH	1.00m
MAKEDONIA STREET	NORTH	2.25m	NORTH	2.70m	NORTH	3.20m	SOUTH	1.85m	SOUTH	2.60m	-	-
COUSENS STREET	WEST	2.25m	WEST	2.70m	WEST	3.20m	EAST	1.85m	EAST	2.60m	WEST	1.00m
PAVEY STREET	NORTH	2.25m	NORTH	2.70m	NORTH	3.20m	SOUTH	1.85m	SOUTH	2.60m	SOUTH	1.00m
PARA STREET	WEST	2.25m	WEST	2.70m	WEST	3.20m	EAST	1.85m	EAST	2.60m	-	-
ZAC STREET	WEST	2.25m	WEST	2.70m	WEST	3.20m	EAST	1.85m	EAST	2.60m	-	-
MELISSA STREET	WEST	2.25m	WEST	2.70m	WEST	3.20m	EAST	1.85m	EAST	2.60m	-	-
KICHNER STREET	WEST	2.25m	WEST	2.70m	WEST	3.20m	EAST	1.85m	EAST	2.60m	EAST	1.00m

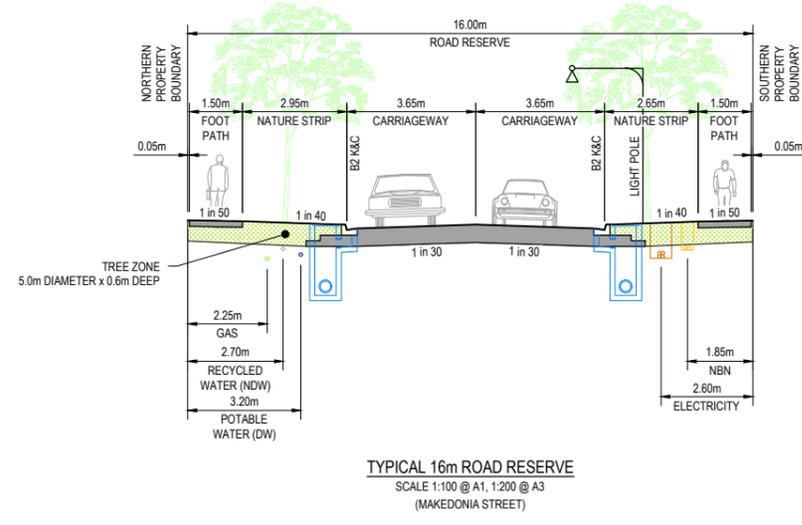
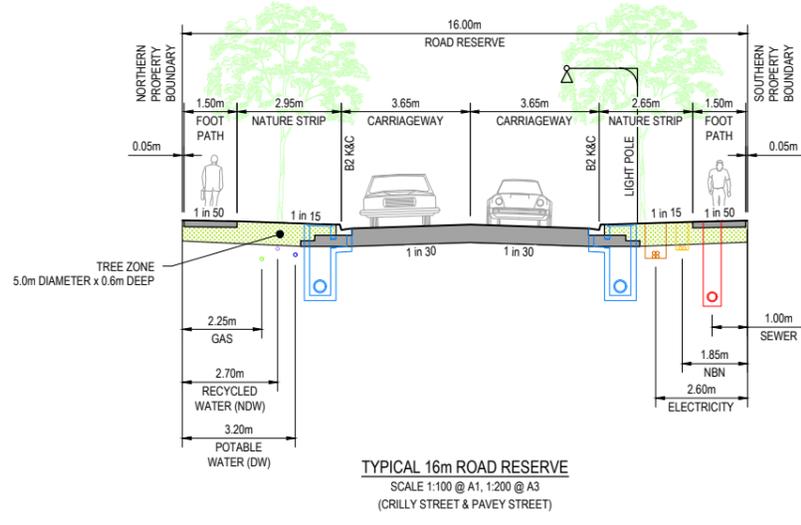
NOTE:
1. LIGHT POLES TO BE 1.0m OFFSET FROM THE BACK OF KERB

VER	DATE	REVISION	APPD.			WYNDHAM CITY COUNCIL		SCALE	AS SHOWN
						EMERALD PARK STAGE 7		VERSION	0
GENERAL NOTES, LOCALITY PLAN, TABLE OF SERVICES DRAWING INDEX						DRAWING No.		12332-7-E-100	
						DESIGNED:	AKA	AUTHORISED:	JOY
						CHECKED:	KMJ	AUTH. DATE:	19/12/2017
						DRAFTED:	KLE	CAD REF:	12332-7-E-100



Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018



WARNING

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WARNING

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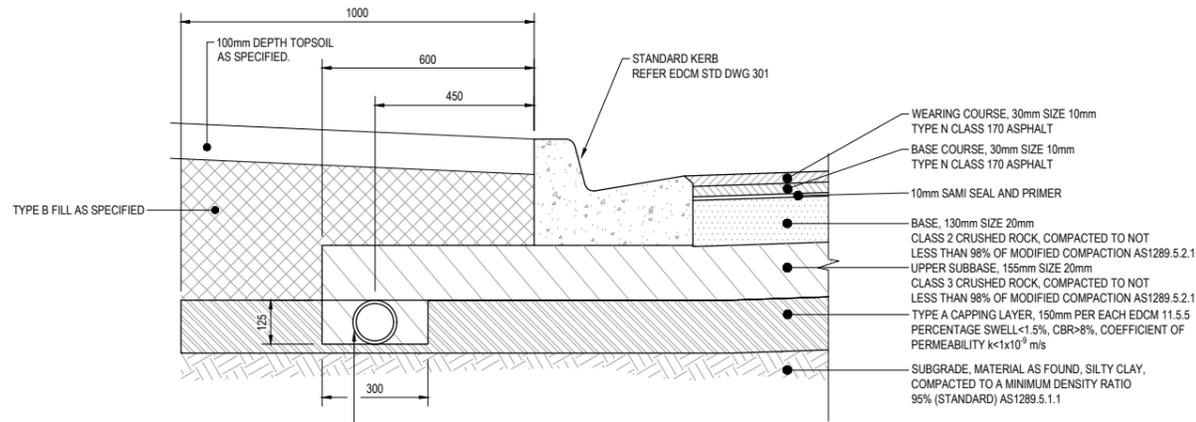
CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ

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Tel: 61 3 9501 2800 | Web: taylorsoz.com.au

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CHECKED:	KMJ	AUTH. DATE:	19/12/2017	CAD REF:	12332-7-E-101

WYNDHAM CITY COUNCIL	SCALE 1:100 @ A1, 1:200 @ A3
EMERALD PARK STAGE 7	VERSION 0
TYPICAL SECTIONS	SHEET 2 OF 32
	DRAWING No. 12332-7-E-101

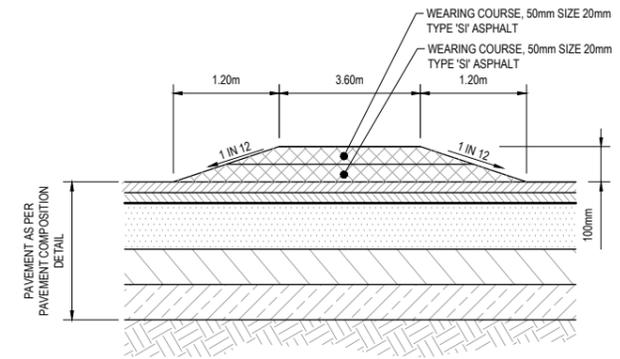


100mm CLASS 400 PERFORATED PVC AGRICULTURAL PIPE IN 20mm SIZE SCREENINGS. REFER TO WYNDHAM STANDARD DRAWING SD7-1

505mm PAVEMENT COMPOSITION

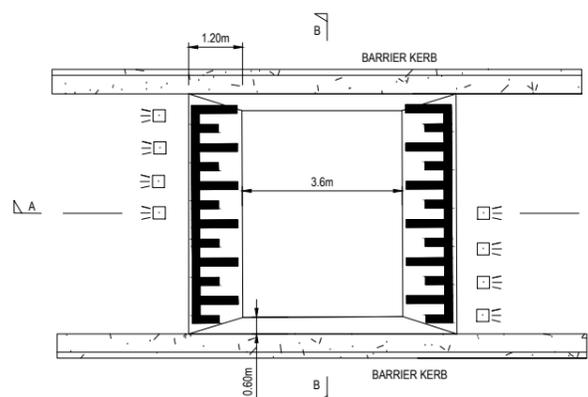
SCALE 1:10 @ A1, 1:20 @ A3

NOTE:
REFER TO GEOTECHNICAL REPORT NO. GE2962.1-15 PREPARED BY GEOTESTA (06 SEPTEMBER 2017) AND EDM STANDARD DRAWING 202 FOR SUBSURFACE DRAIN DETAILS.



FLAT TOP SPEED HUMP DETAIL (SECTION A-A)

N.T.S.

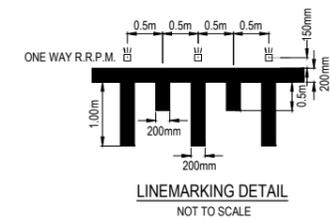


FLAT TOP SPEED HUMP DETAIL PLAN

N.T.S.

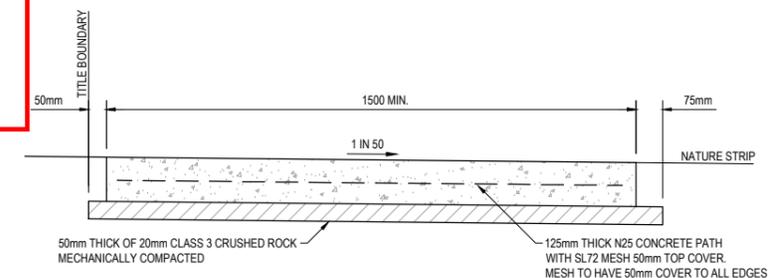
**Planning and Environment Act 1987
Wyndham Planning Scheme**

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under Condition 33
Permit No WYP6863/13
Date 23/05/2018**



LINEMARKING DETAIL

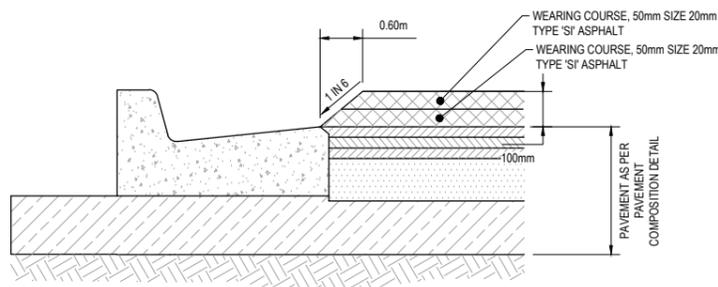
NOT TO SCALE



TYPICAL RESIDENTIAL FOOTPATH/BICYCLE PATH*

SCALE 1:20 @ A1, 1:40 @ A3 (REFER TO MPA STD DWG EDM 401)

NOTE: PROVIDE STRUCTURAL FILL UNDER FOOTPATH WHEN FILLING



FLAT TOP SPEED HUMP DETAIL (SECTION B-B)

N.T.S.

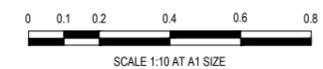


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CHECKED:	KMJ	AUTH. DATE:	19/12/2017	CAD REF:	12332-7-E-102

WYNDHAM CITY COUNCIL	SCALE	AS SHOWN
EMERALD PARK STAGE 7	VERSION	0
TYPICAL PAVEMENT DETAILS	SHEET	3 OF 32
	DRAWING No.	12332-7-E-102



DOHERTYS ROAD

Planning and Environment Act 1987
Wyndham Planning Scheme

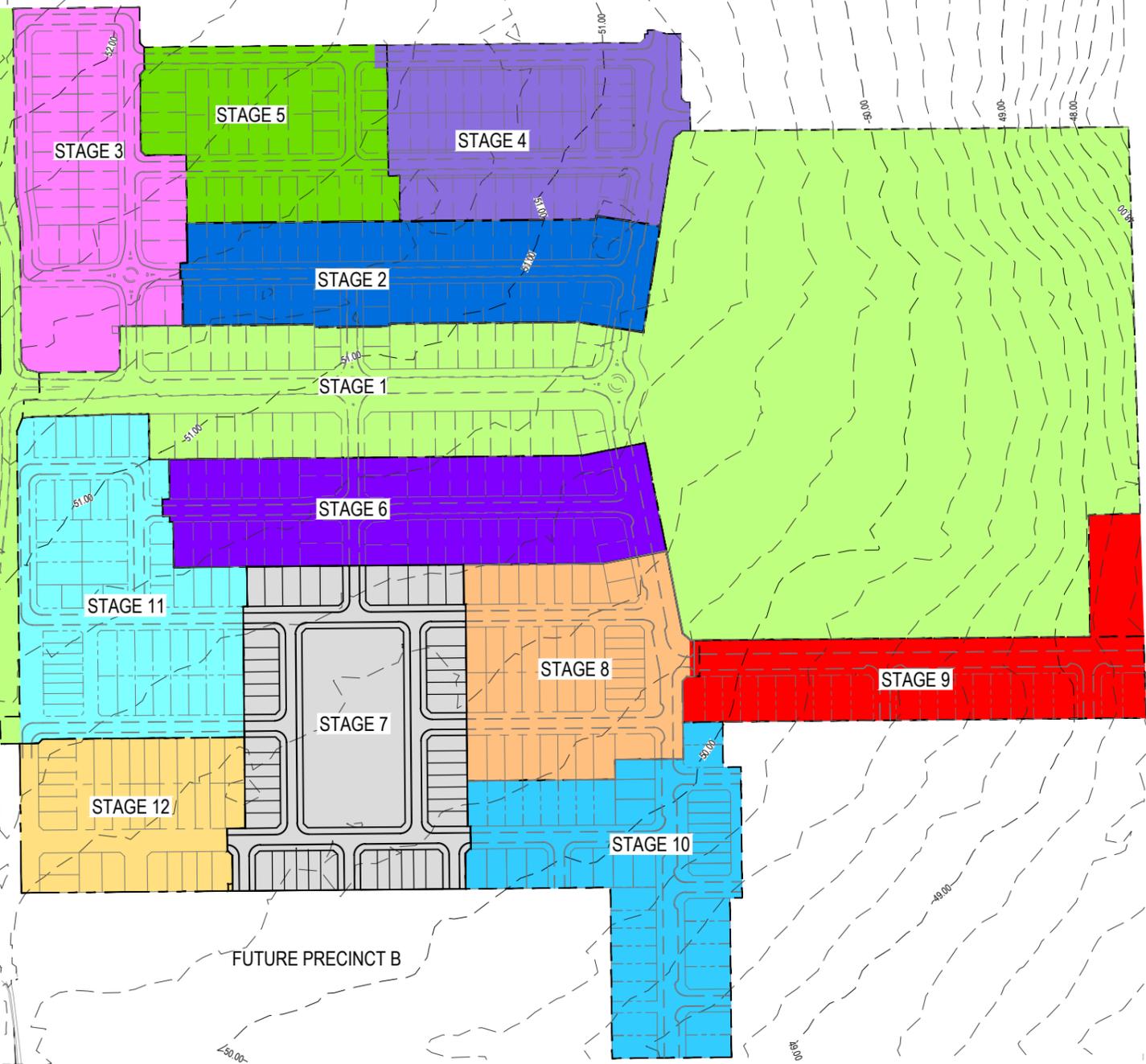
Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018

T.B.M.
 IRON PIPE
 E 296317.03
 N 5811329.77
 RL 51.65

TBM
 NAIL IN BITUMEN
 E 295269.50
 N 5810910.21
 RL 51.18

T.B.M.
 STEEL PIPE
 E 296122.48
 N 5810943.36
 RL 48.47

RRL OVERPASS



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CONSTRUCTION
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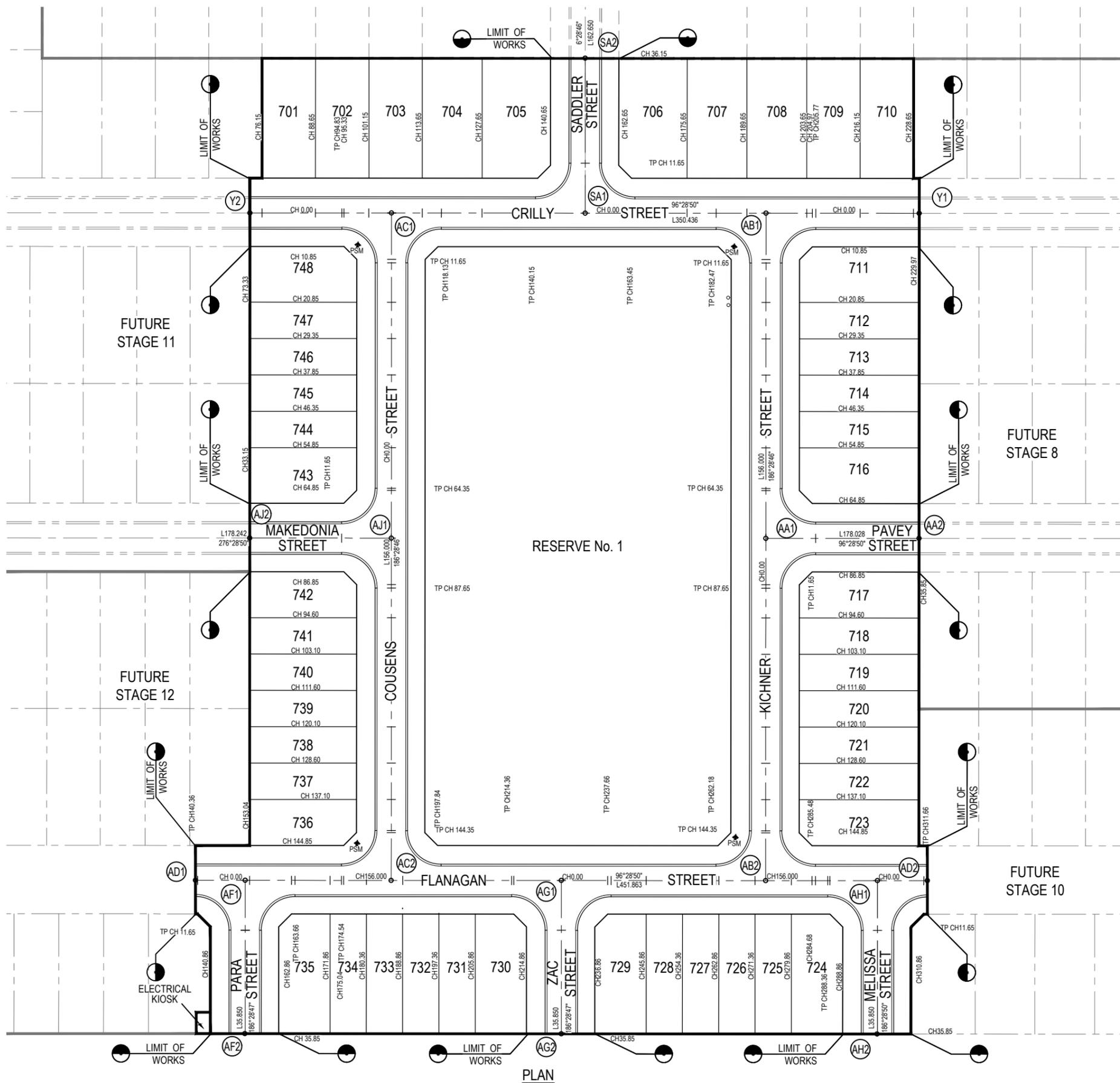
0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ
VER	DATE	REVISION	APPD.



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DESIGNED:	AKA	AUTHORISED:	JOY	DRAFTED:	KLE
CHECKED:	KMJ	AUTH. DATE:	19/12/2017	CAD REF:	12332-7-E-103

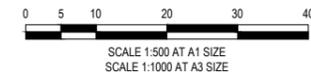
WYNDHAM CITY COUNCIL	SCALE 1:2000 @ A1, 1:4000 @ A3
EMERALD PARK	VERSION 0
STAGE 7	SHEET 4 OF 32
OVERALL STAGING PLAN	DRAWING No.
	12332-7-E-103



CENTRELINE SETOUT TABLE			
ALIGNMENT Y			
POINT NO	EASTING	NORTHING	RL
Y1	295638.633	5811080.93	50.07
Y2	295482.990	5811098.610	50.44
ALIGNMENT AA			
POINT NO	EASTING	NORTHING	RL
AA1	295594.435	5811009.461	50.50
AA2	295630.056	5811005.415	50.44
ALIGNMENT AB			
POINT NO	EASTING	NORTHING	RL
AB1	295603.012	5811084.977	50.23
AB2	295585.408	5810929.973	50.28
ALIGNMENT AC			
POINT NO	EASTING	NORTHING	RL
AC1	295515.928	5811094.869	50.27
AC2	295498.324	5810939.865	50.38
ALIGNMENT AD			
POINT NO	EASTING	NORTHING	RL
AD1	295452.789	5810945.038	50.49
AD2	295622.994	5810925.704	50.21
ALIGNMENT AF			
POINT NO	EASTING	NORTHING	RL
AF1	295464.364	5810943.723	50.44
AF2	295460.318	5810908.102	50.62
ALIGNMENT AG			
POINT NO	EASTING	NORTHING	RL
AG1	295537.891	5810935.371	50.27
AG2	295533.845	5810899.75	50.48
ALIGNMENT AH			
POINT NO	EASTING	NORTHING	RL
AH1	295611.418	5810927.018	50.26
AH2	295607.372	5810891.398	50.46
ALIGNMENT AJ			
POINT NO	EASTING	NORTHING	RL
AJ1	295507.351	5811019.354	50.66
AJ2	295474.413	5811023.096	50.59
ALIGNMENT SA			
POINT NO	EASTING	NORTHING	RL
SA1	295560.960	5811089.753	50.25
SA2	295565.039	5811125.673	50.52

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○ D1 SETOUT POINT



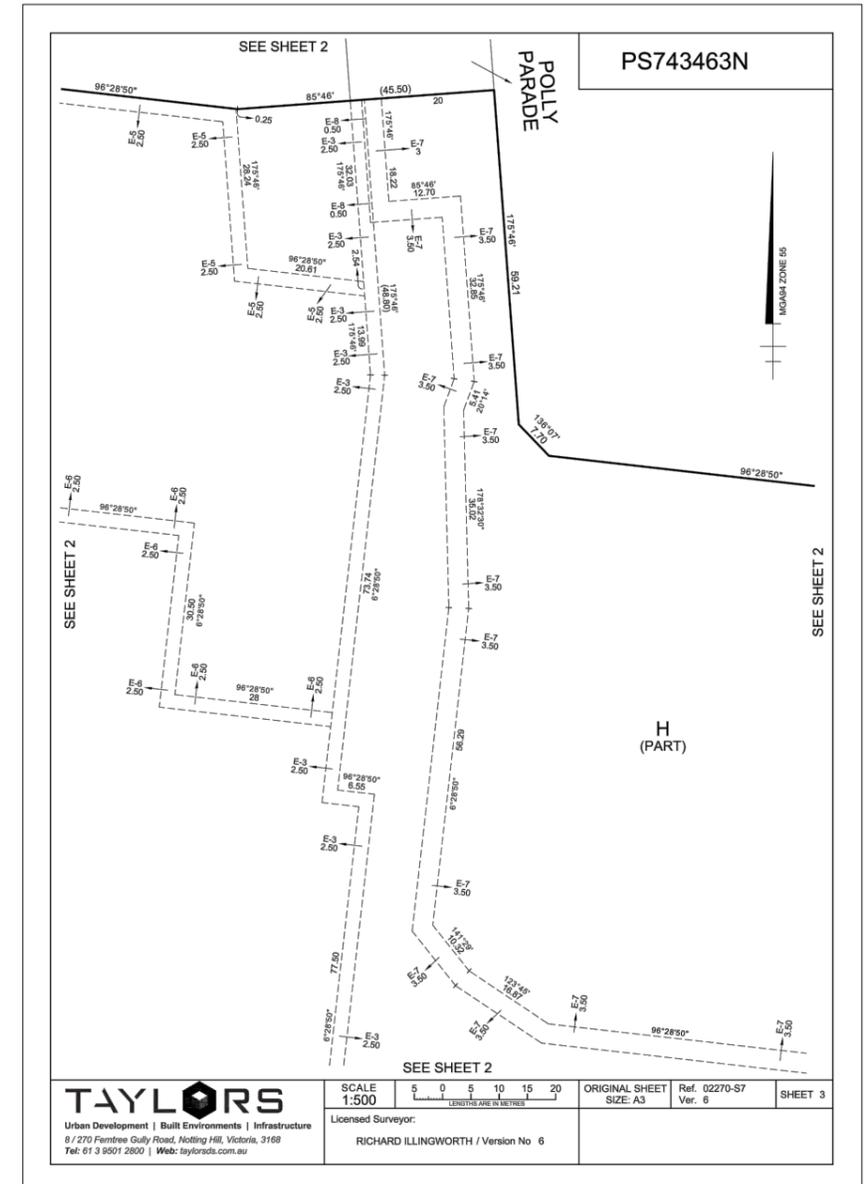
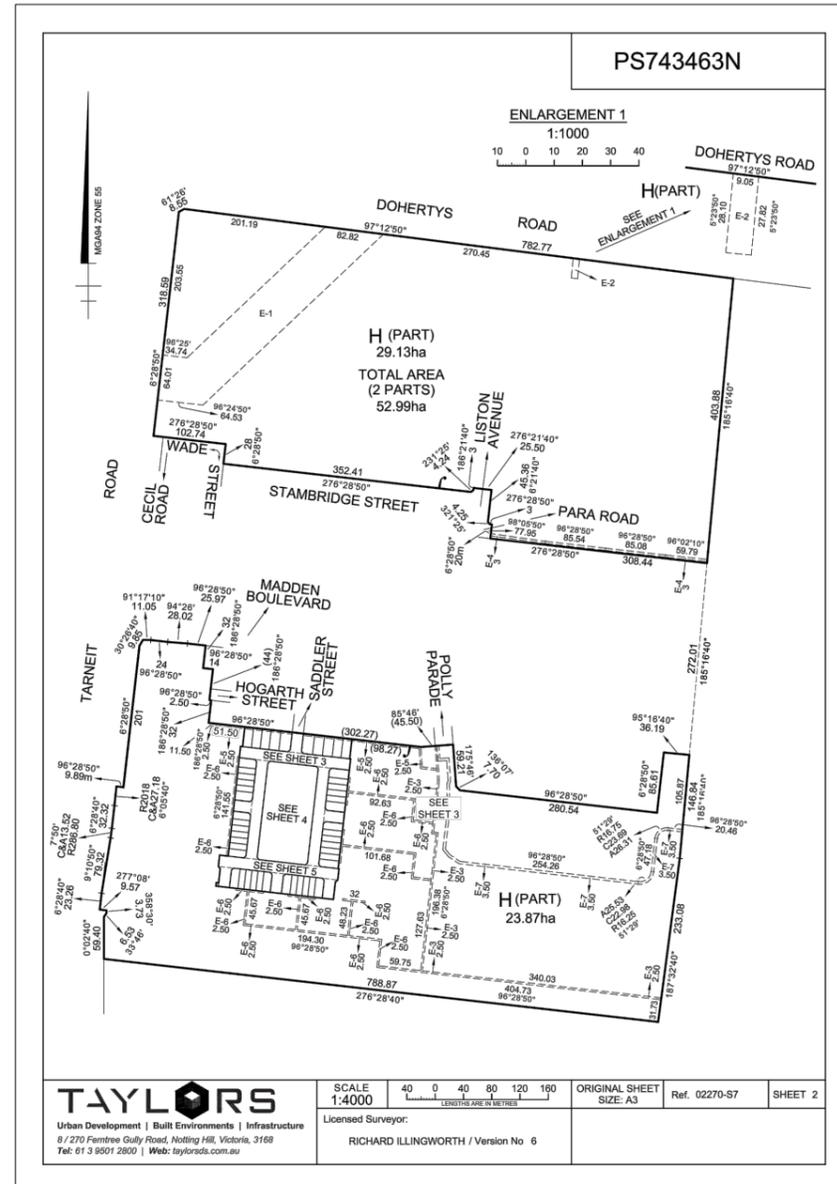
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 Urban Development | Infrastructure
 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9021 2000 | Web: taylors.com.au

DESIGNED: AKA AUTHOURISED: JOY DRAFTED: KLE
 CHECKED: KMJ AUTH. DATE: 19/12/2017 CAD REF: 12332-7-E-104

WYNDHAM CITY COUNCIL
 EMERALD PARK
 STAGE 7
 ROAD CENTRELINE SETOUT PLAN

SCALE 1:500 @ A1, 1:1000 @ A3
 VERSION 0
 SHEET 5 OF 32
 DRAWING No. 12332-7-E-104

PLAN OF SUBDIVISION		EDITION 1	PS743463N						
LOCATION OF LAND PARISH: TARNEIT TOWNSHIP: --- SECTION: 21 CROWN ALLOTMENT: --- CROWN PORTION: A (Part) & C (Part) TITLE REFERENCE: Vol. Fol. LAST PLAN REFERENCE: Lot G on PS743462Q POSTAL ADDRESS: 1121 Dohertys Road (at time of subdivision) TARNEIT 3029 MGA 94 CO-ORDINATES: E: 295 550 ZONE: 55 (of approx centre of land in plan) N: 5811 010		COUNCIL NAME: Wyndham City Council							
VESTING OF ROADS AND/OR RESERVES <table border="1"> <thead> <tr> <th>IDENTIFIER</th> <th>COUNCIL/BODY/PERSON</th> </tr> </thead> <tbody> <tr> <td>Road R1 Reserve No.1</td> <td>Wyndham City Council</td> </tr> <tr> <td>Road R2 Reserve No.2</td> <td>Wyndham City Council Powercor Australia Ltd</td> </tr> </tbody> </table>		IDENTIFIER	COUNCIL/BODY/PERSON	Road R1 Reserve No.1	Wyndham City Council	Road R2 Reserve No.2	Wyndham City Council Powercor Australia Ltd	NOTATIONS Lots on this plan may be affected by one or more restrictions. Refer to Creation of Restriction A and B on Sheets 7 & 8 of this plan for details. OTHER PURPOSE OF PLAN 1. To Remove that part of easement E-3 created on PS733919B in so far as where it lies within Road R1 herein. 2. To Remove that part of easement E-5 created on PS743462Q in so far as where it lies within Road R1 herein. GROUNDS FOR REMOVAL: By agreement between all interested parties.	
IDENTIFIER	COUNCIL/BODY/PERSON								
Road R1 Reserve No.1	Wyndham City Council								
Road R2 Reserve No.2	Wyndham City Council Powercor Australia Ltd								
NOTATIONS DEPTH LIMITATION: Does Not Apply SURVEY: This plan is based on survey. STAGING: This is not a staged subdivision. Planning Permit No. WYP 6863/13									
EMERALD PARK - Release 7 Area of Release: 3.604ha No. of Lots: 48 Lots and Balance Lot H									
EASEMENT INFORMATION									
LEGEND: A - Appurtenant Easement E - Encumbering Easement R - Encumbering Easement (Road)									
Easement Reference	Purpose	Width (Metres)	Origin	Land Benefited/In Favour Of					
E-1	Transmission of Electricity	See Diag.	C/E A627820	State Electricity Commission of Victoria					
E-2	Transmission of Electricity	See Diag.	C/E A828798	State Electricity Commission of Victoria					
E-3	Sewerage	See Diag.	PS733919B	Wyndham City Council					
E-4	Drainage	See Diag.	PS733919B	Wyndham City Council					
E-5	Sewerage	See Diag.	PS743462Q	City West Water Corporation					
E-6	Sewerage	See Diag.	This Plan	City West Water Corporation					
E-7	Drainage	See Diag.	PS743462Q	Melbourne Water Corporation					
E-8	Sewerage Drainage	See Diagram	PS743462Q	City West Water Corporation Melbourne Water Corporation					
TAYLORS Urban Development Built Environments Infrastructure 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9501 2800 Web: taylors.com.au		SURVEYORS FILE REF: Ref. 02270-57 Licensed Surveyor: RICHARD ILLINGWORTH / Version No 6	ORIGINAL SHEET SIZE: A3 SHEET 1 OF 11						



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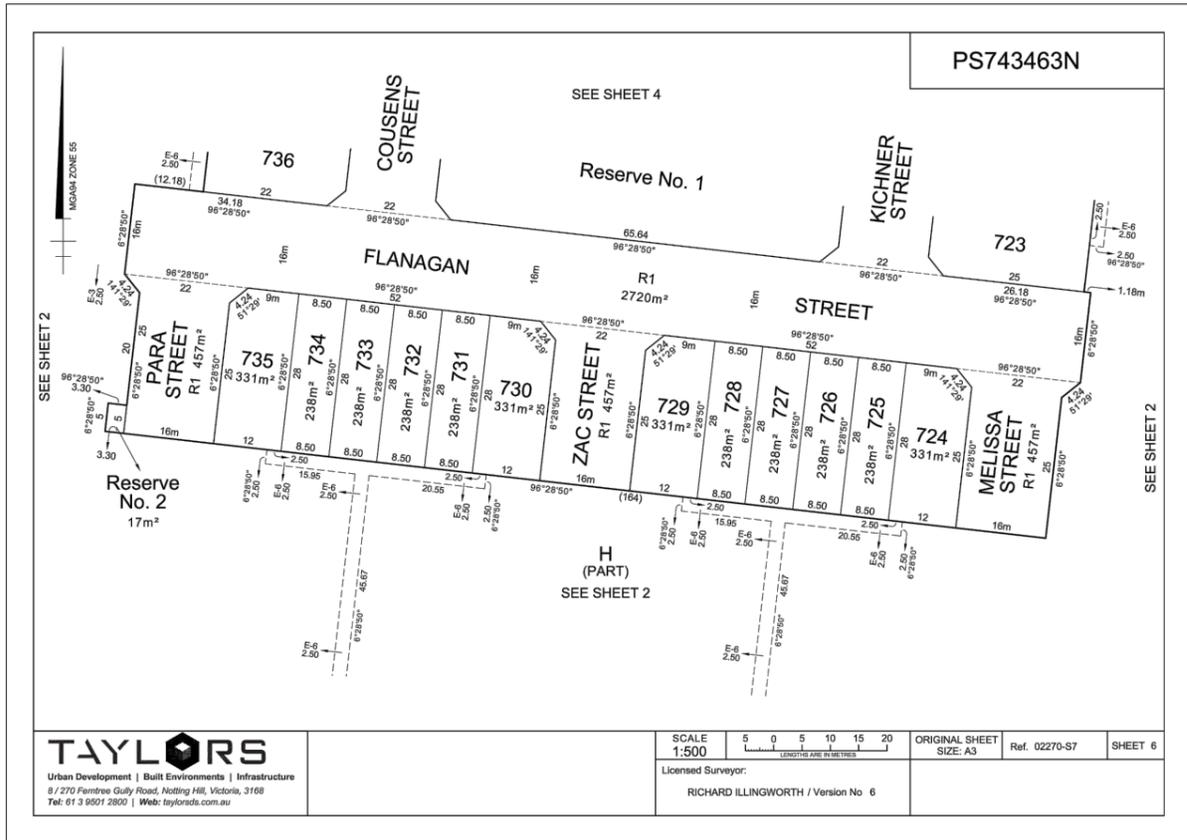
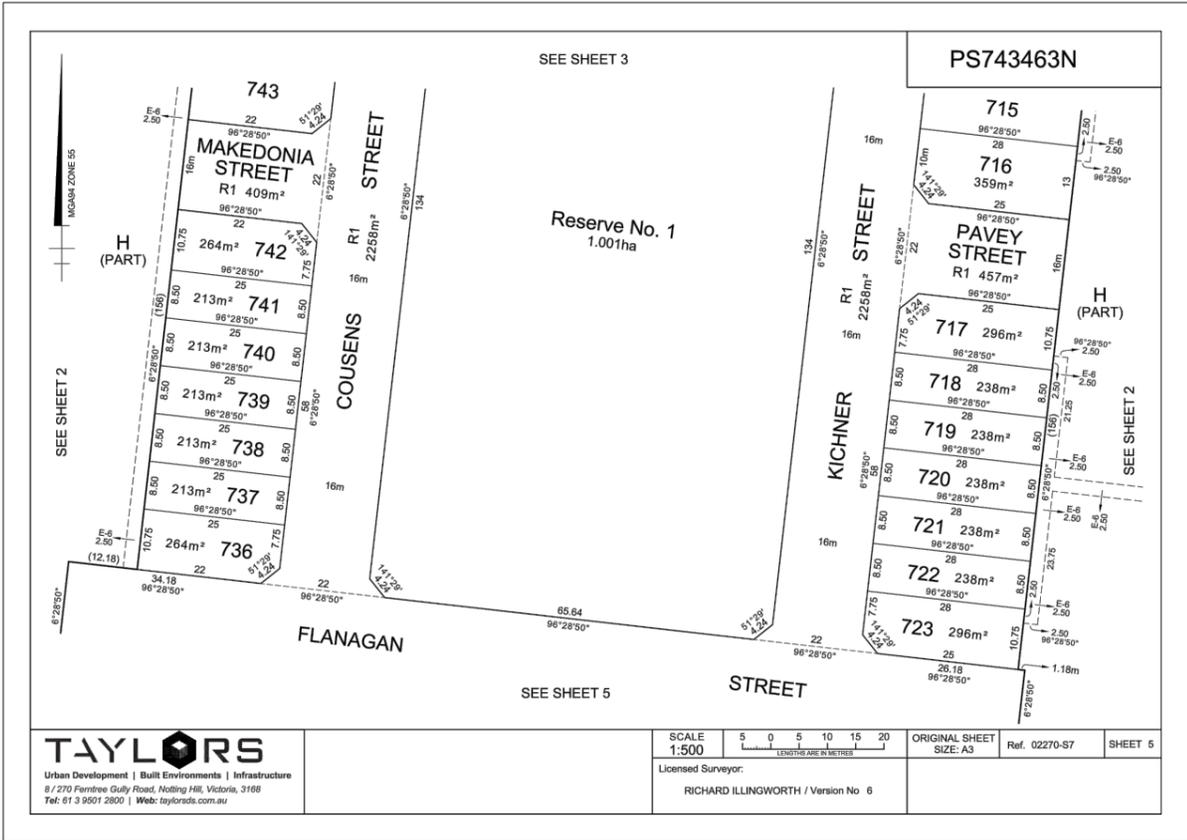
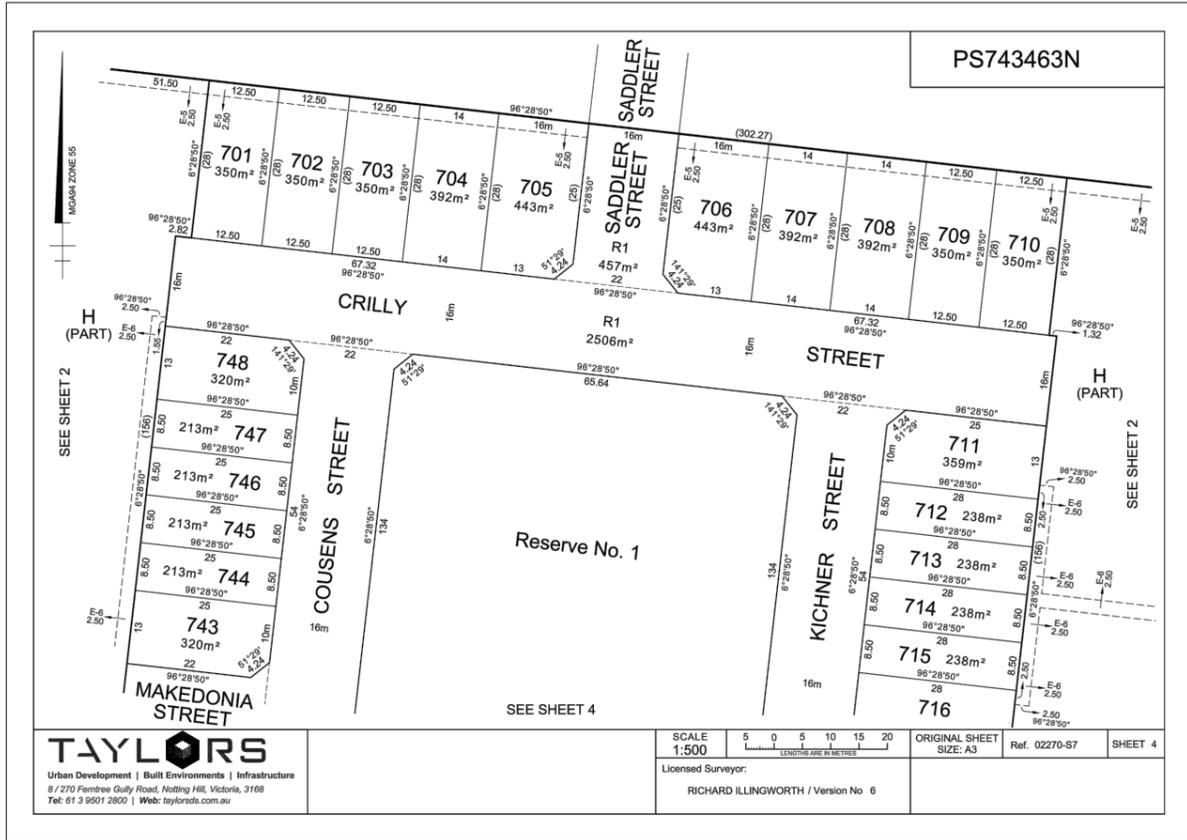
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CHECKED: KMJ	AUTH. DATE: 19/12/2017	CAD REF: 12332-7-E-105-108

Coords: MGA Levels: AHD

WYNDHAM CITY COUNCIL	SCALE N.T.S.
EMERALD PARK STAGE 7	VERSION 0
PLAN OF SUBDIVISION SHEET 1 OF 4	SHEET 6 OF 32
	DRAWING No.
	12332-7-E-105



CONSTRUCTION
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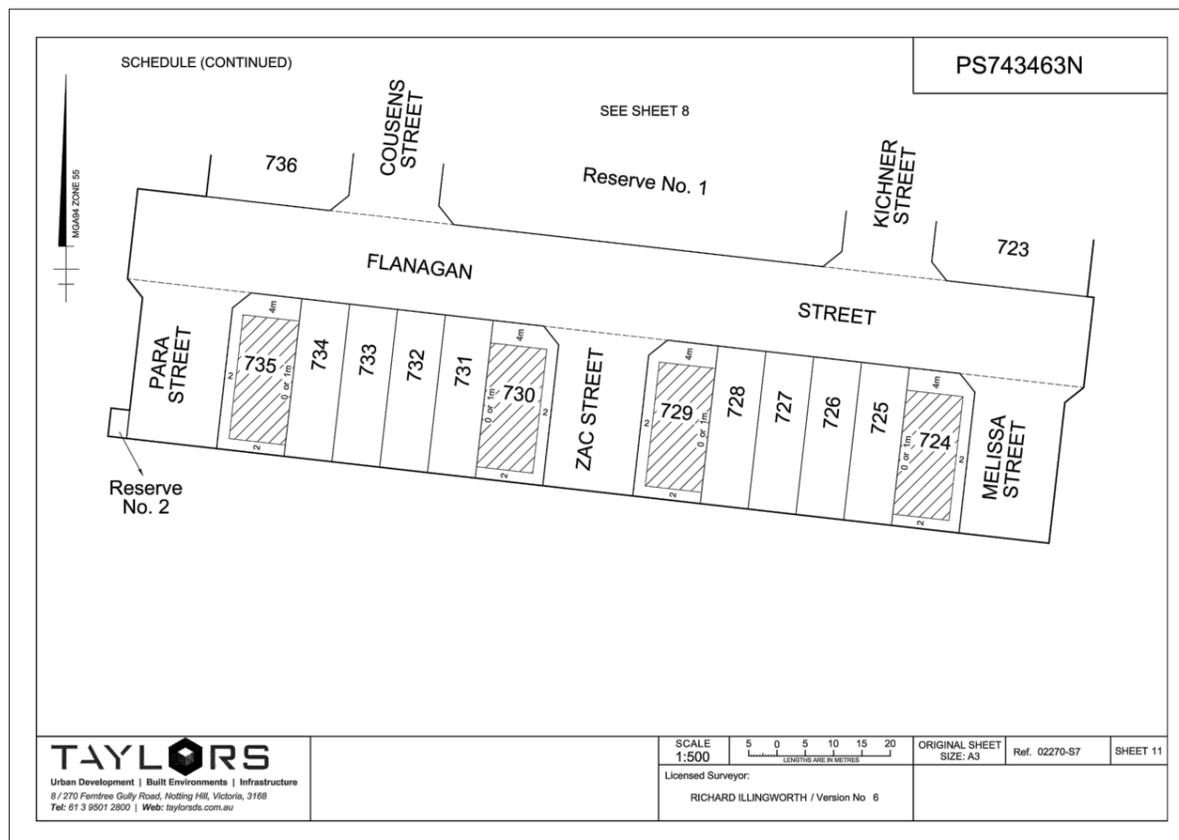
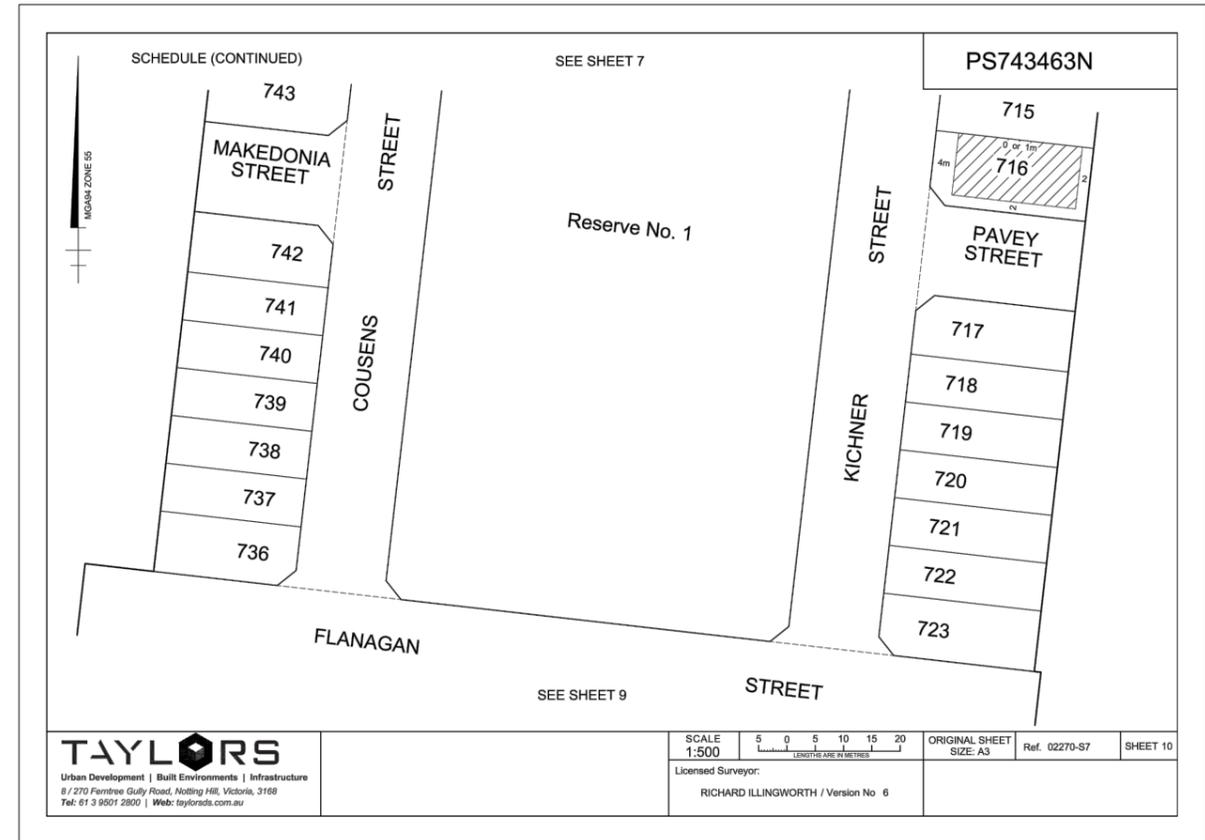
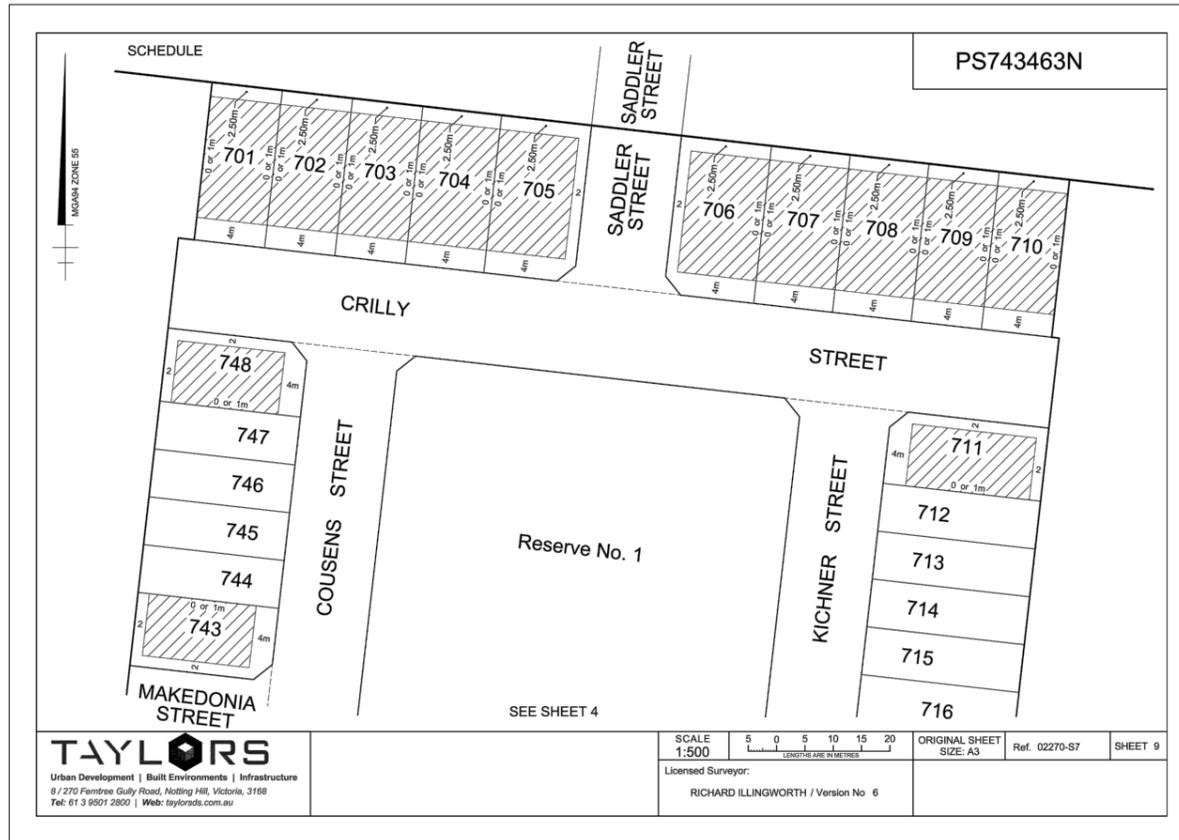
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CHECKED: KMJ AUTH. DATE: 19/12/2017 CAD REF: 12332-7-E-105-108

Coords: MGA Levels: AHD

WYNDHAM CITY COUNCIL	SCALE	N.T.S.
EMERALD PARK STAGE 7	VERSION	0
PLAN OF SUBDIVISION SHEET 2 OF 4	DRAWING No.	12332-7-E-106
	SHEET	7 OF 32



CONSTRUCTION
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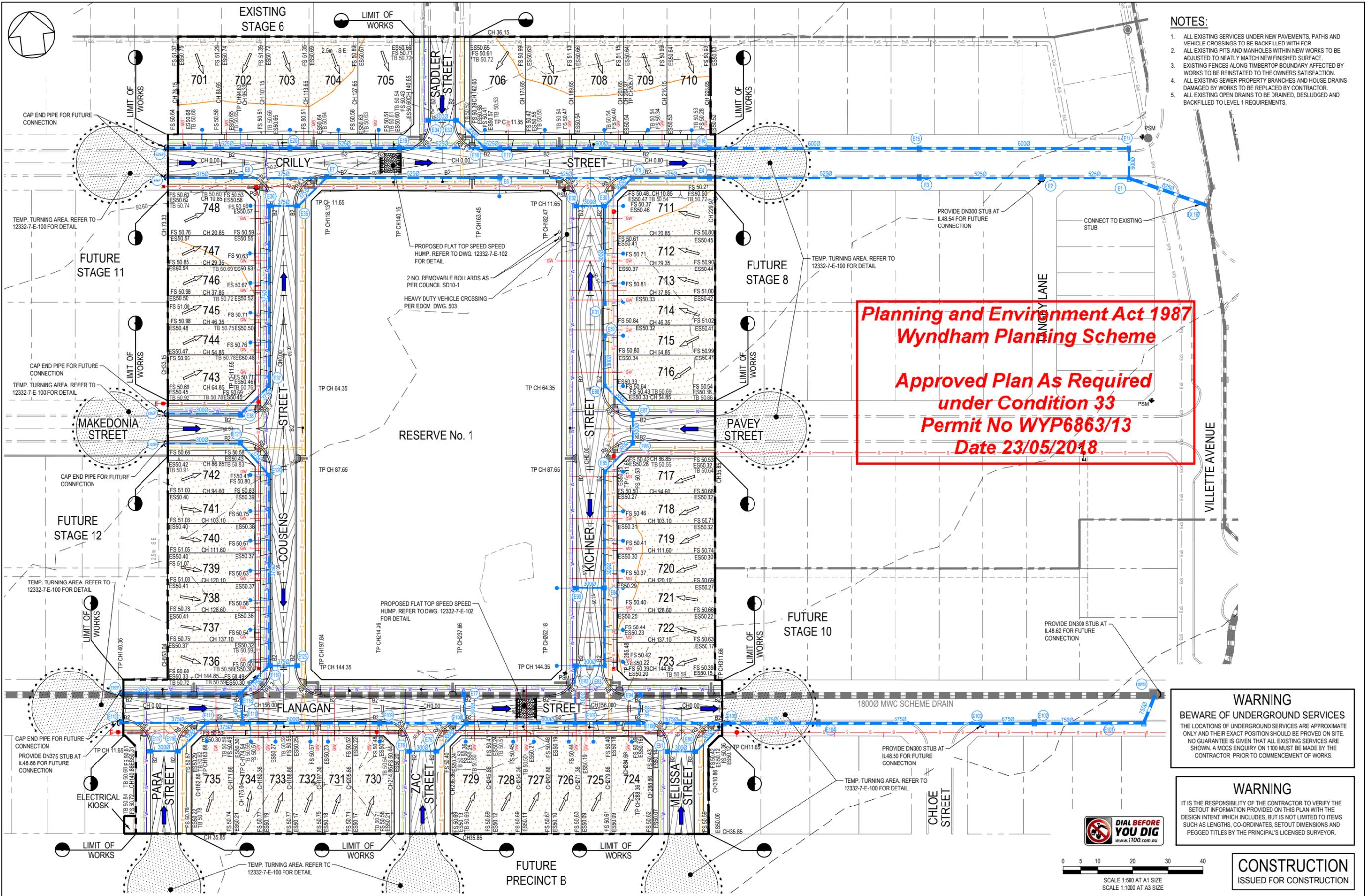
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Coords: MGA Levels: AHD

WYNDHAM CITY COUNCIL	SCALE N.T.S.
EMERALD PARK STAGE 7	VERSION 0
PLAN OF SUBDIVISION SHEET 4 OF 4	SHEET 9 OF 32
	DRAWING No. 12332-7-E-108

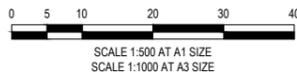


- NOTES:**
1. ALL EXISTING SERVICES UNDER NEW PAVEMENTS, PATHS AND VEHICLE CROSSINGS TO BE BACKFILLED WITH FCR.
 2. ALL EXISTING PITS AND MANHOLES WITHIN NEW WORKS TO BE ADJUSTED TO NEATLY MATCH NEW FINISHED SURFACE.
 3. EXISTING FENCES ALONG TIMBERTOP BOUNDARY AFFECTED BY WORKS TO BE REINSTATED TO THE OWNERS SATISFACTION.
 4. ALL EXISTING SEWER PROPERTY BRANCHES AND HOUSE DRAINS DAMAGED BY WORKS TO BE REPLACED BY CONTRACTOR.
 5. ALL EXISTING OPEN DRAINS TO BE DRAINED, DESLUDGED AND BACKFILLED TO LEVEL 1 REQUIREMENTS.

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018

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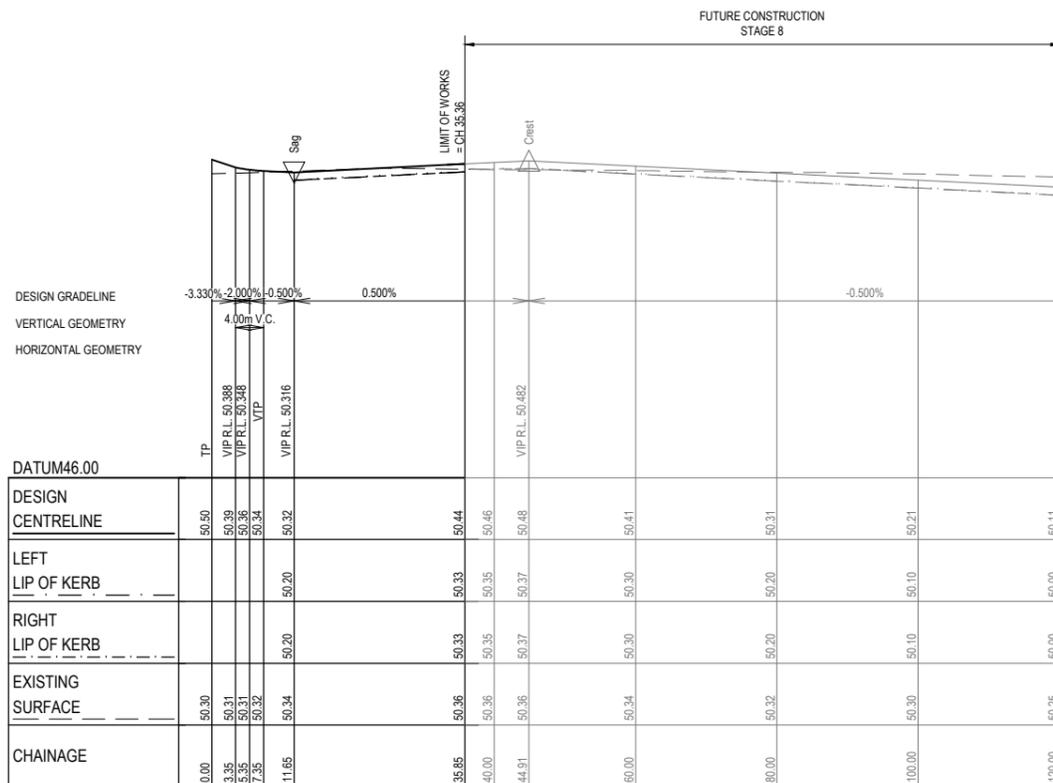
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">EXISTING GAS MAIN</td> <td style="width: 50%;">PROPOSED GAS MAIN</td> </tr> <tr> <td>EXISTING WATER MAIN</td> <td>PROPOSED WATER MAIN</td> </tr> <tr> <td>EXISTING ELECTRICITY CABLE</td> <td>PROPOSED ELECTRICITY CABLE</td> </tr> <tr> <td>EXISTING TELCO CABLE & PIT</td> <td>PROPOSED TELCO CABLE</td> </tr> <tr> <td>EXISTING SEWER MAIN & M.H.</td> <td>PROPOSED SEWER MAIN & M.H.</td> </tr> <tr> <td>EXISTING DRAIN & PIT</td> <td>PROPOSED DRAIN & PIT</td> </tr> <tr> <td>OPEN DRAIN</td> <td>PROPOSED PROPERTY INLETS</td> </tr> </table>	EXISTING GAS MAIN	PROPOSED GAS MAIN	EXISTING WATER MAIN	PROPOSED WATER MAIN	EXISTING ELECTRICITY CABLE	PROPOSED ELECTRICITY CABLE	EXISTING TELCO CABLE & PIT	PROPOSED TELCO CABLE	EXISTING SEWER MAIN & M.H.	PROPOSED SEWER MAIN & M.H.	EXISTING DRAIN & PIT	PROPOSED DRAIN & PIT	OPEN DRAIN	PROPOSED PROPERTY INLETS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">STREET NAME SIGN</td> <td style="width: 50%;">FILLING ON LOTS DEEPER THAN 200mm</td> </tr> </table>	STREET NAME SIGN	FILLING ON LOTS DEEPER THAN 200mm	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">P.S.M.</td> <td style="width: 50%;">T.B.M.</td> </tr> <tr> <td>PROPOSED GAS & WATER CONDUIT</td> <td>EXISTING SURFACE LEVEL</td> </tr> <tr> <td>EXISTING SURFACE LEVEL</td> <td>FINISHED SURFACE BUILDING LINE & ROAD RESERVE</td> </tr> <tr> <td>FINISHED SURFACE BUILDING LINE & ROAD RESERVE</td> <td>FINISHED SURFACE TOP OF BATTER</td> </tr> </table>	P.S.M.	T.B.M.	PROPOSED GAS & WATER CONDUIT	EXISTING SURFACE LEVEL	EXISTING SURFACE LEVEL	FINISHED SURFACE BUILDING LINE & ROAD RESERVE	FINISHED SURFACE BUILDING LINE & ROAD RESERVE	FINISHED SURFACE TOP OF BATTER	<p style="text-align: center;">TAYLORS Urban Development Infrastructure 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9011 2000 Web: taylorsof.com.au</p>	<p style="text-align: center;">WYNDHAM CITY COUNCIL EMERALD PARK STAGE 7 DETAIL LAYOUT PLAN SHEET 1 OF 3</p>	<p style="text-align: center;">SCALE 1:500 @ A1, 1:1000 @ A3</p> <p>VERSION 0 SHEET 10 OF 32 DRAWING No. 12332-7-E-109</p>
EXISTING GAS MAIN	PROPOSED GAS MAIN																												
EXISTING WATER MAIN	PROPOSED WATER MAIN																												
EXISTING ELECTRICITY CABLE	PROPOSED ELECTRICITY CABLE																												
EXISTING TELCO CABLE & PIT	PROPOSED TELCO CABLE																												
EXISTING SEWER MAIN & M.H.	PROPOSED SEWER MAIN & M.H.																												
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EXISTING SURFACE LEVEL	FINISHED SURFACE BUILDING LINE & ROAD RESERVE																												
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NOTES

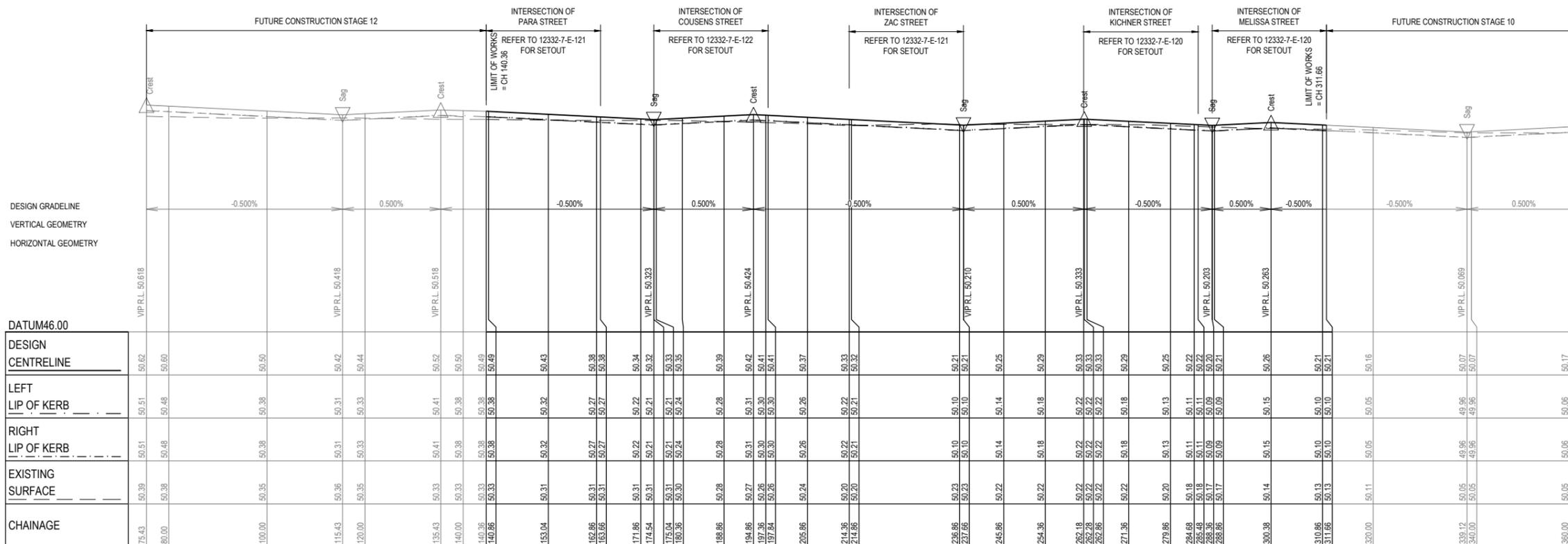
1. ALL EXISTING SERVICES UNDER NEW PAVEMENTS, PATHS AND VEHICLE CROSSINGS TO BE BACKFILLED WITH FCR.
2. ALL EXISTING PITS AND MANHOLES WITHIN NEW WORKS TO BE ADJUSTED TO NEATLY MATCH NEW FINISHED SURFACE.
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5. ALL EXISTING OPEN DRAINS TO BE DRAINED, DESLUDGED AND BACKFILLED TO LEVEL 1 REQUIREMENTS.

**Planning and Environment Act 1987
Wyndham Planning Scheme**

**Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018**



PAVEY STREET

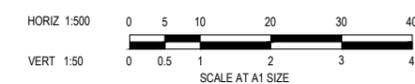


FLANAGAN STREET



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CONSTRUCTION
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VER	DATE	REVISION	APPD.
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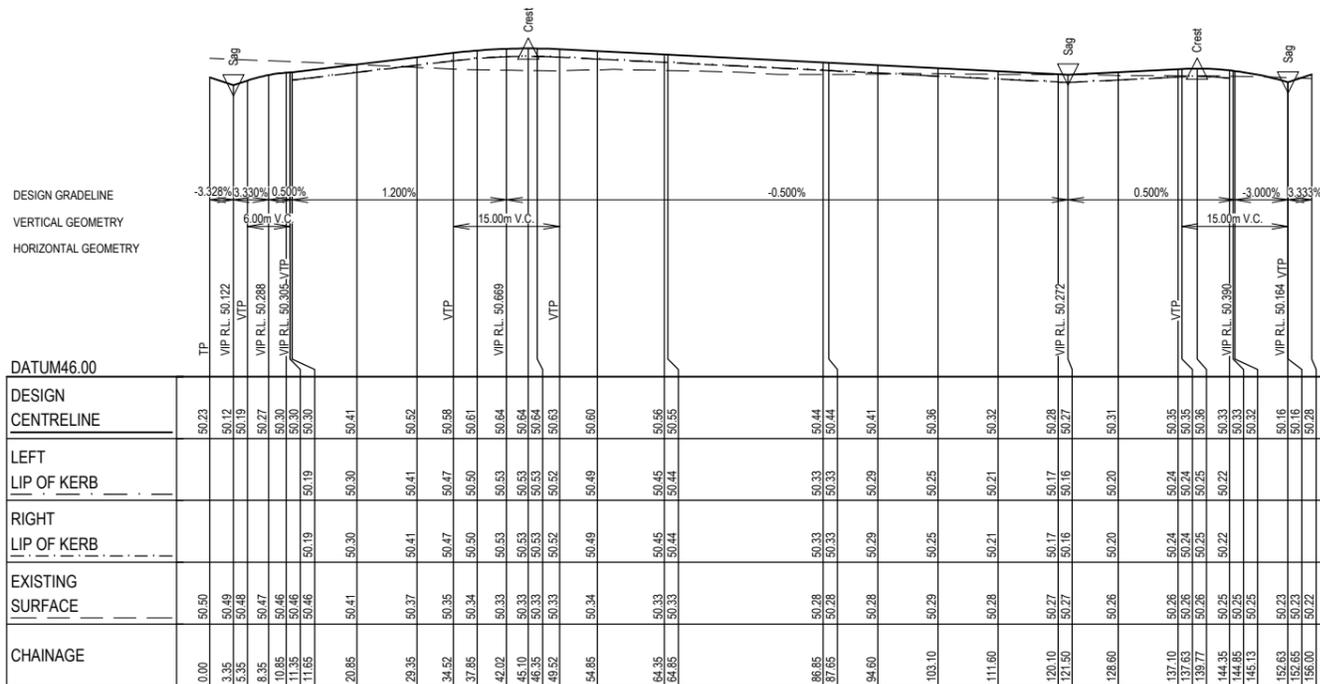
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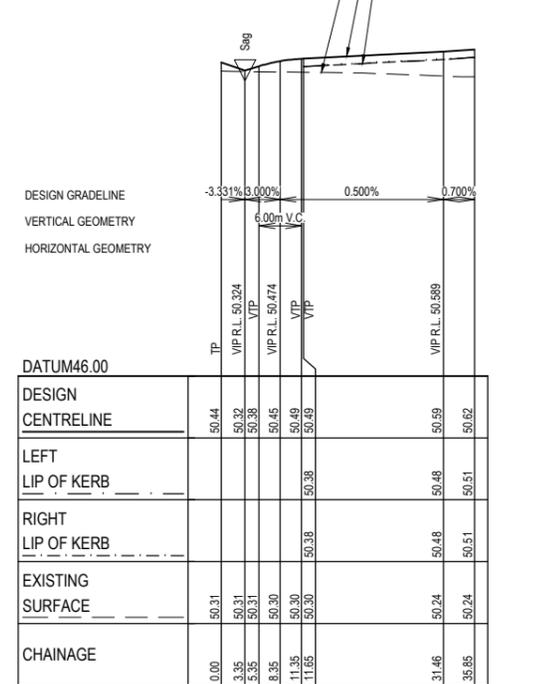
WYNDHAM CITY COUNCIL	SCALE AS SHOWN
EMERALD PARK STAGE 7	VERSION 0
ROAD LONGITUDINAL SECTIONS	SHEET 12 OF 32
SHEET 2 OF 3	DRAWING No. 12332-7-E-111

NOTES

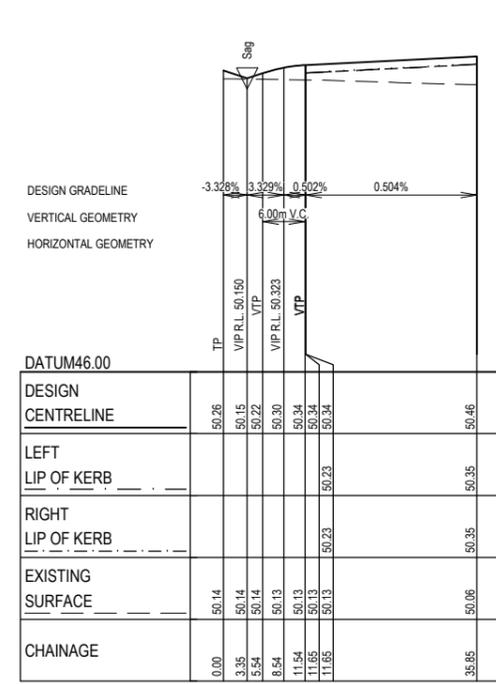
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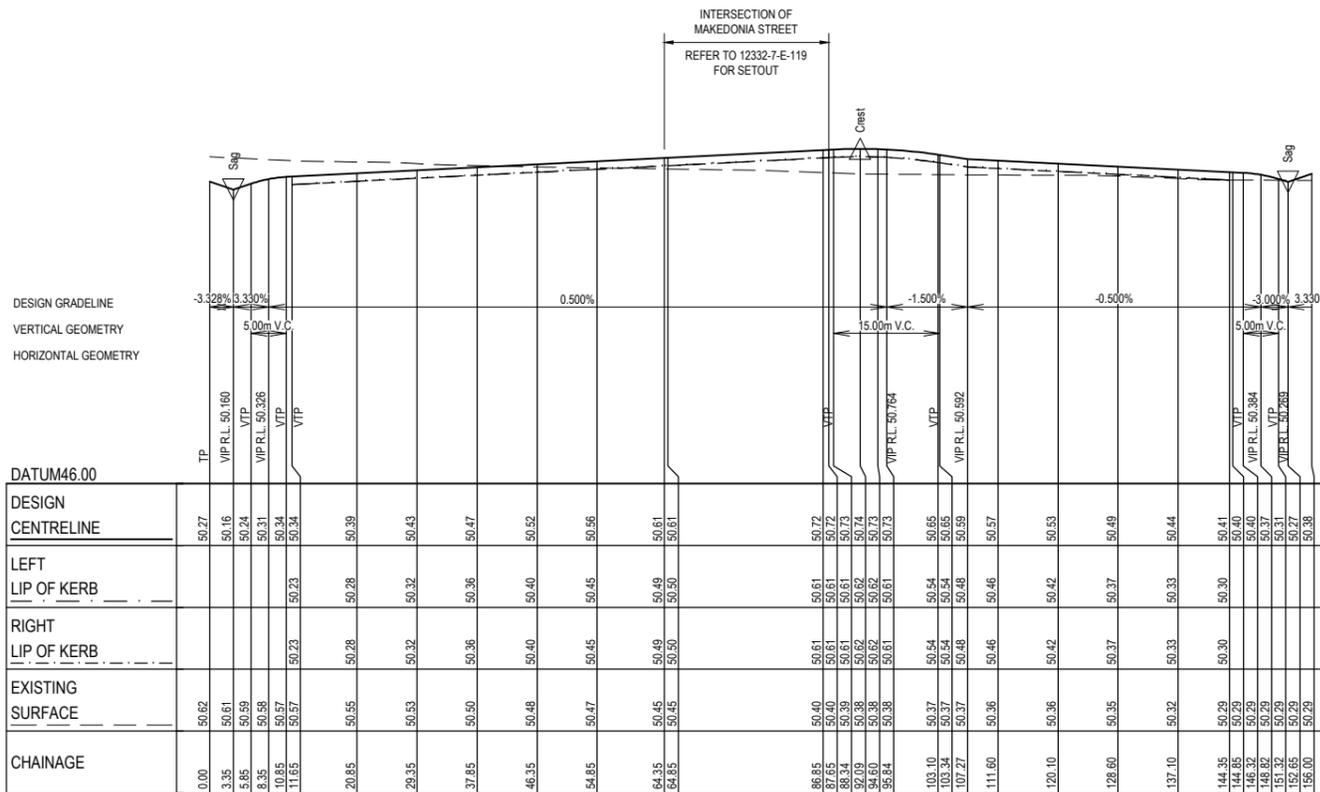
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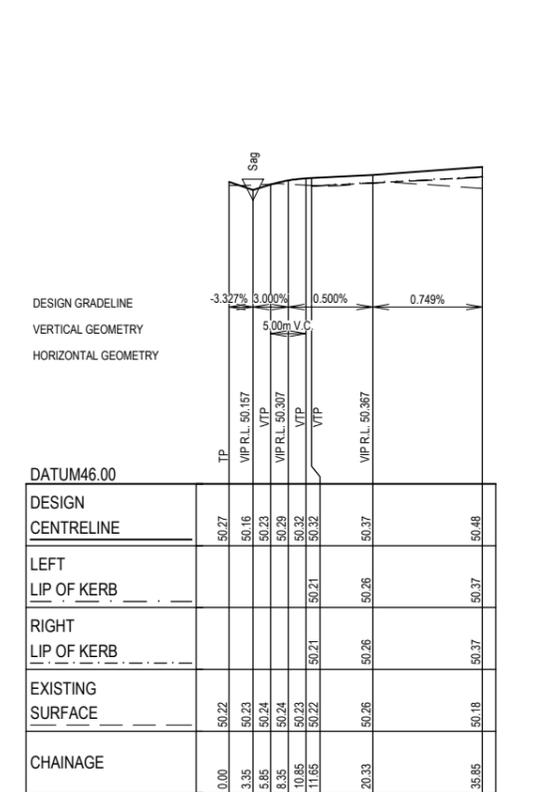
PARA STREET



MELISSA STREET



COUZENS STREET



ZAC STREET

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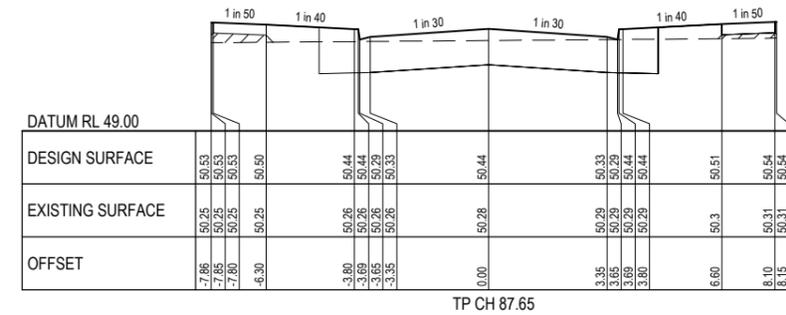
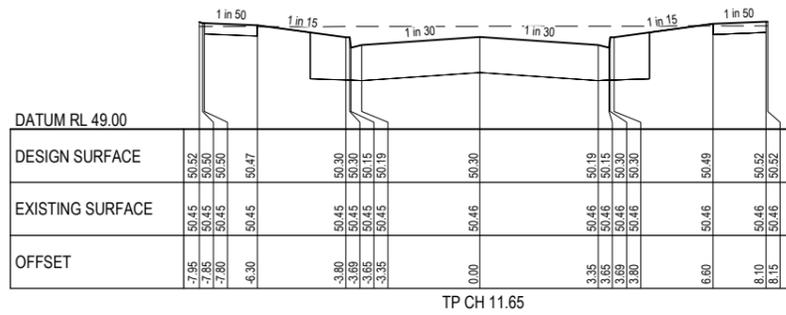
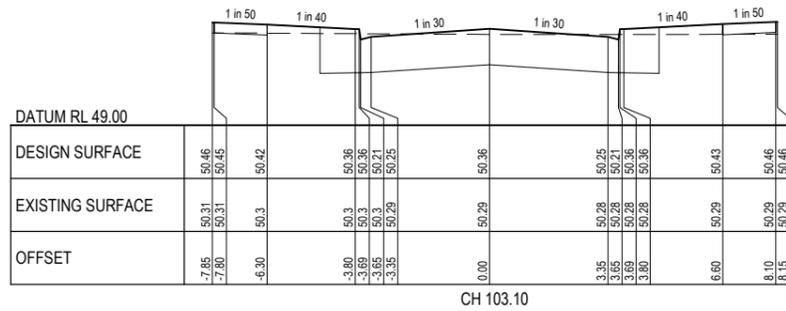
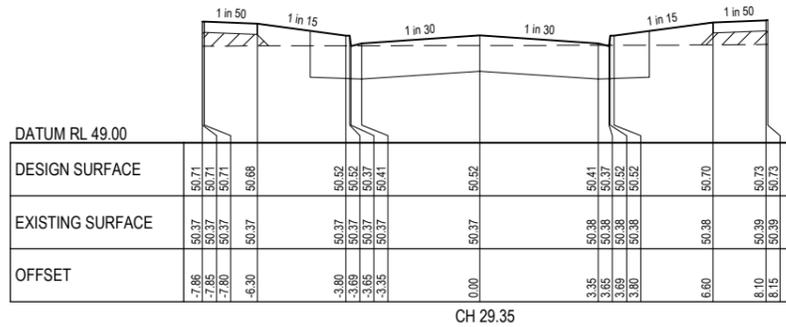
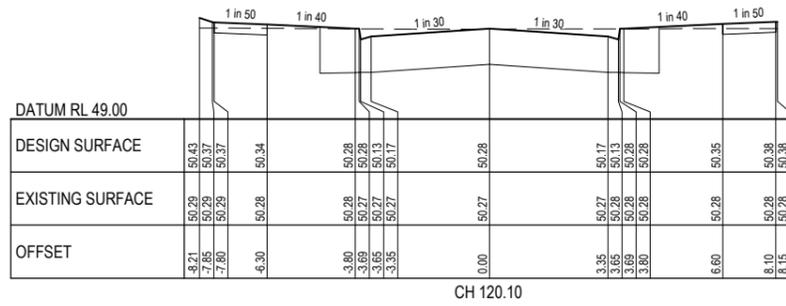
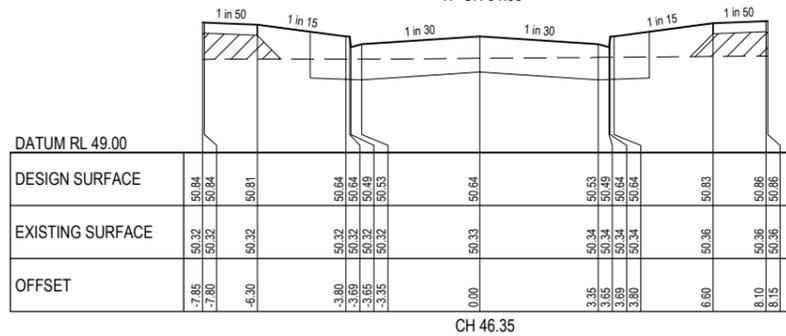
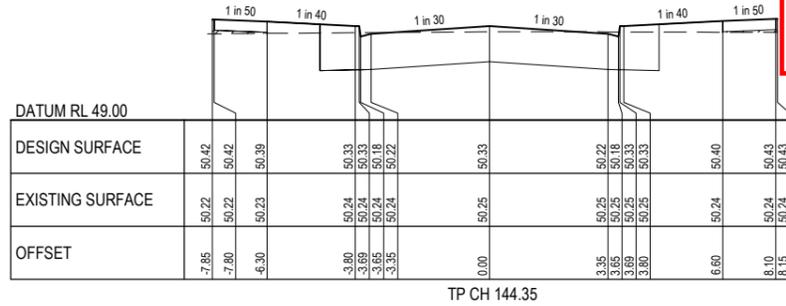
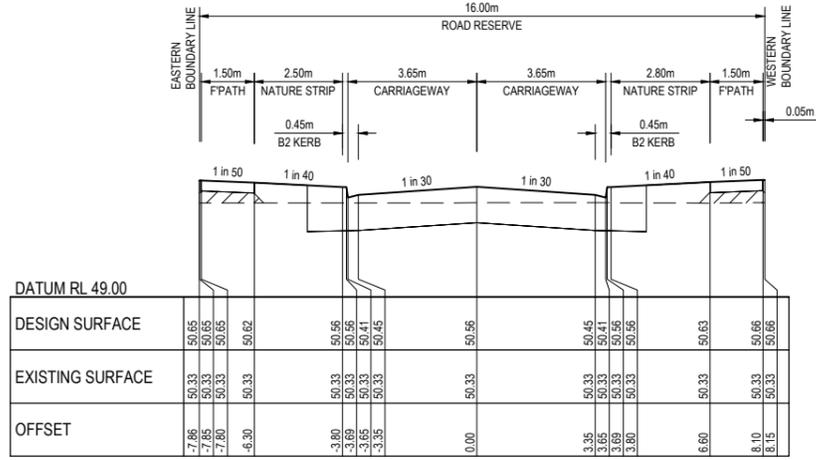
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Coords: MGA Levels: AHD

WYNDHAM CITY COUNCIL	SCALE AS SHOWN
EMERALD PARK STAGE 7	VERSION 0
ROAD LONGITUDINAL SECTIONS	SHEET 13 OF 32
SHEET 3 OF 3	DRAWING No. 12332-7-E-112

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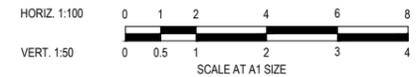


KICHNER STREET



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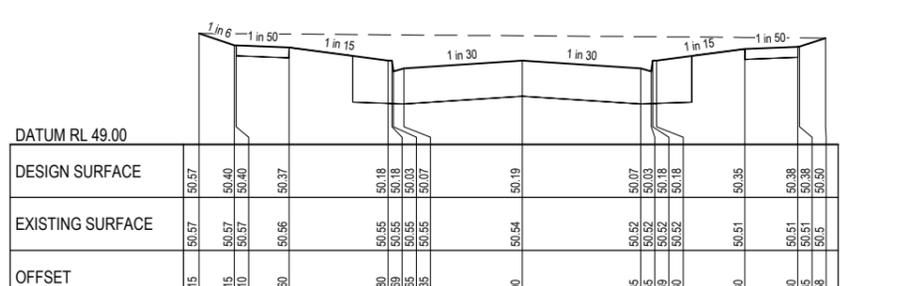
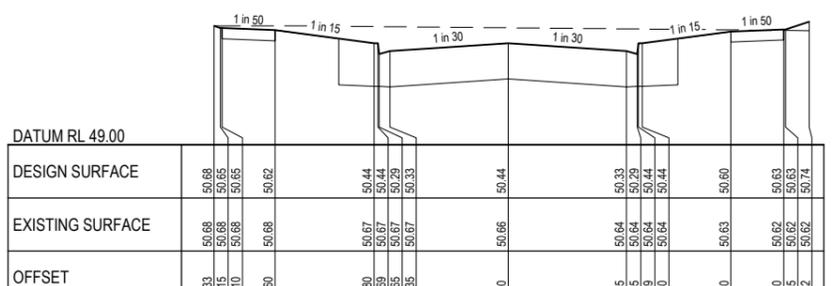
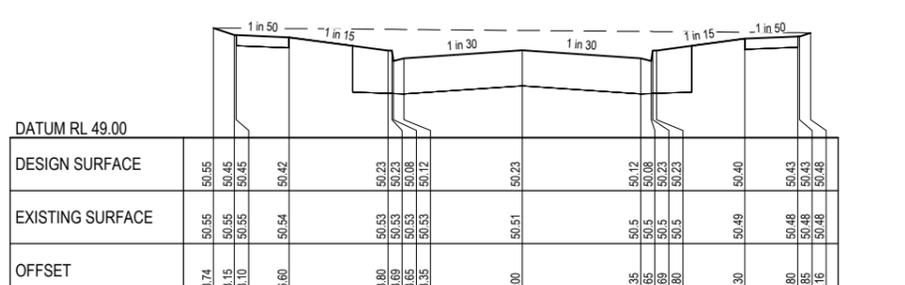
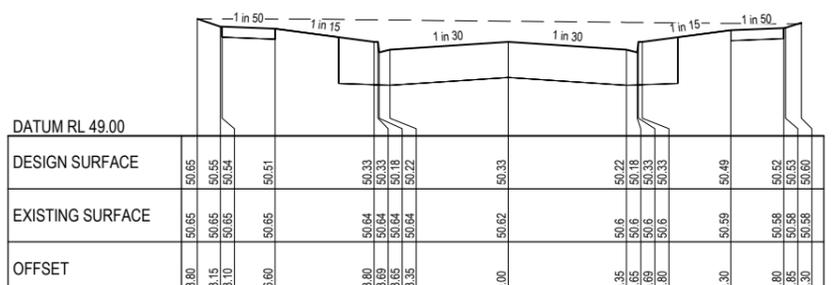
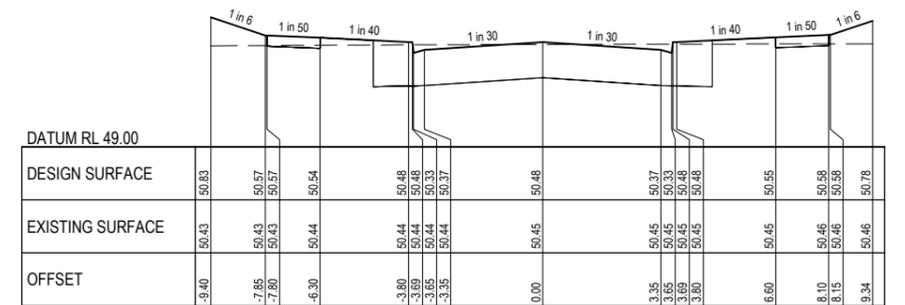
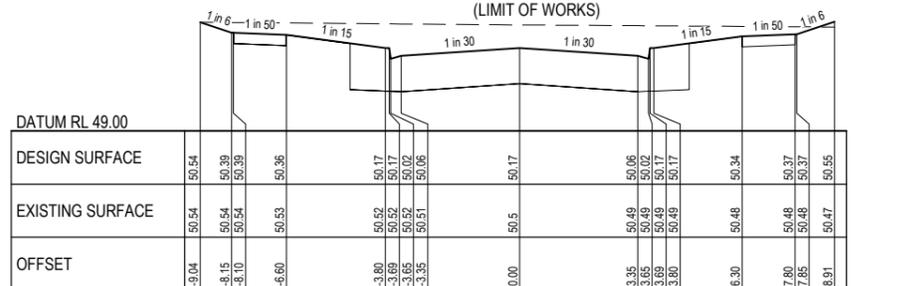
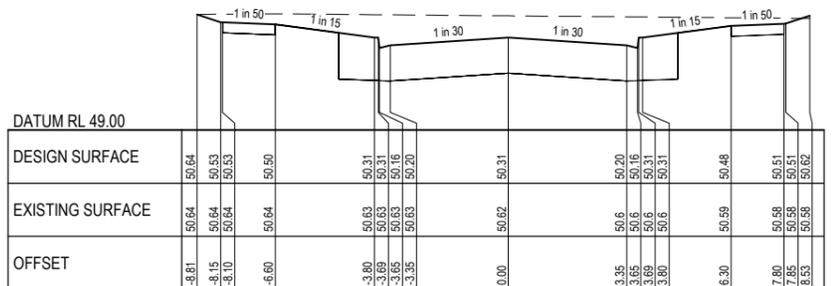
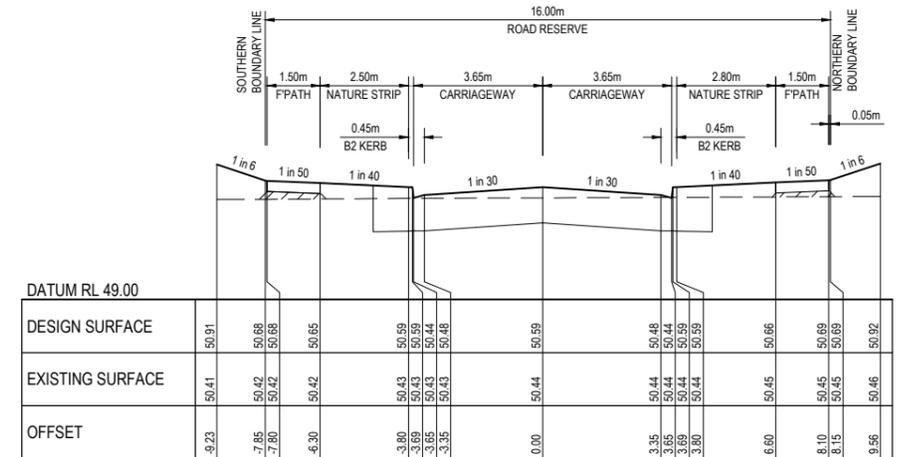
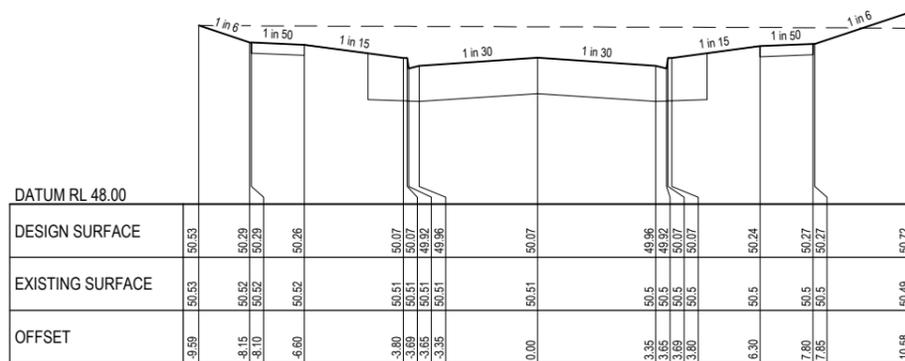
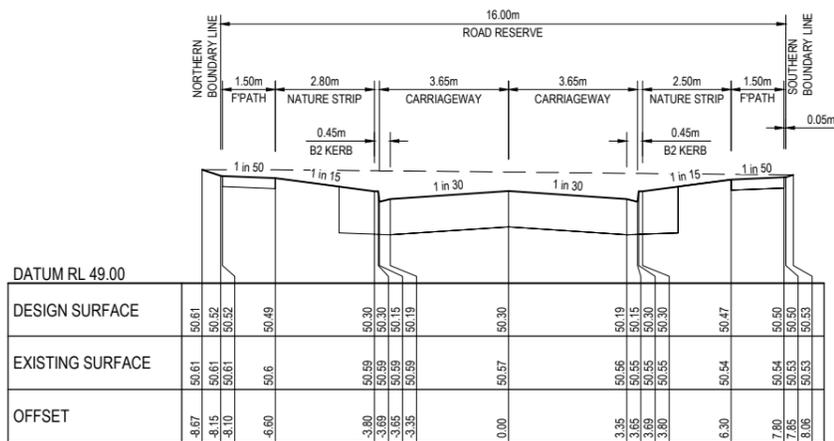
/// DENOTES STRUCTURAL FILL COMPACTED TO LEVEL 1 REQUIREMENTS.
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CHECKED:	KMJ	AUTH. DATE:	19/12/2017	CAD REF:	12332-7-E-113-117

WYNDHAM CITY COUNCIL	SCALE	AS SHOWN
EMERALD PARK STAGE 7	VERSION	0
ROAD CROSS SECTIONS SHEET 1 OF 5	SHEET	14 OF 32
	DRAWING No.	12332-7-E-113



Planning and Environment Act 1987
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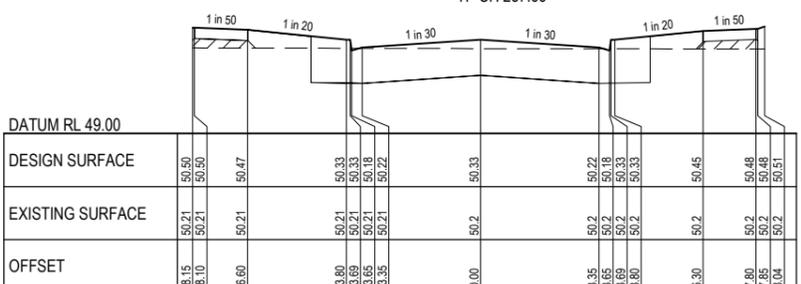
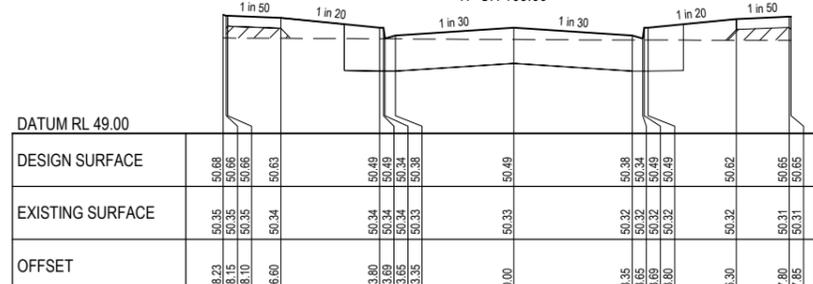
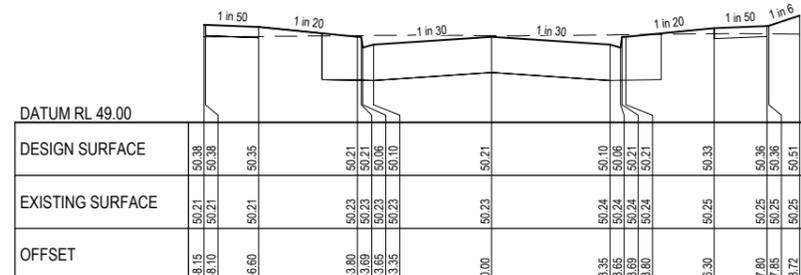
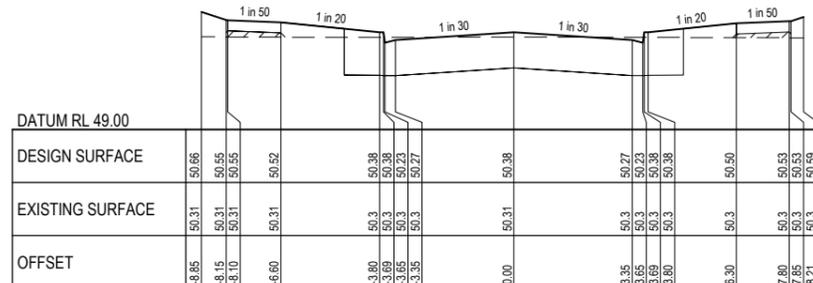
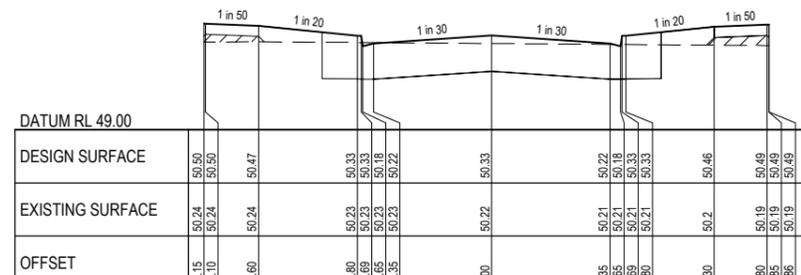
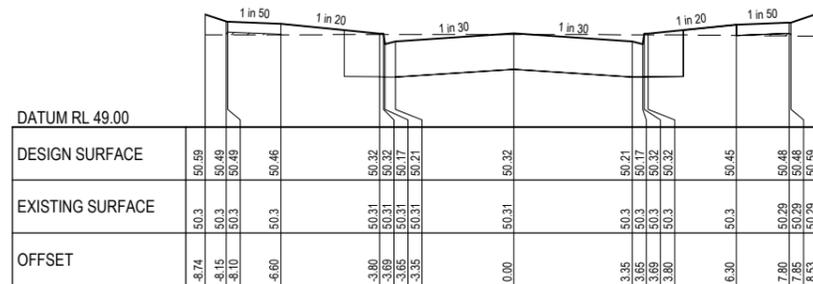
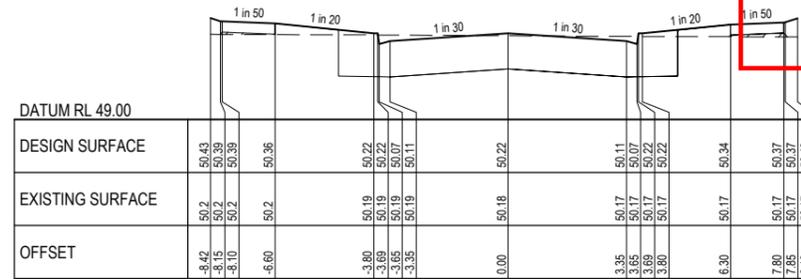
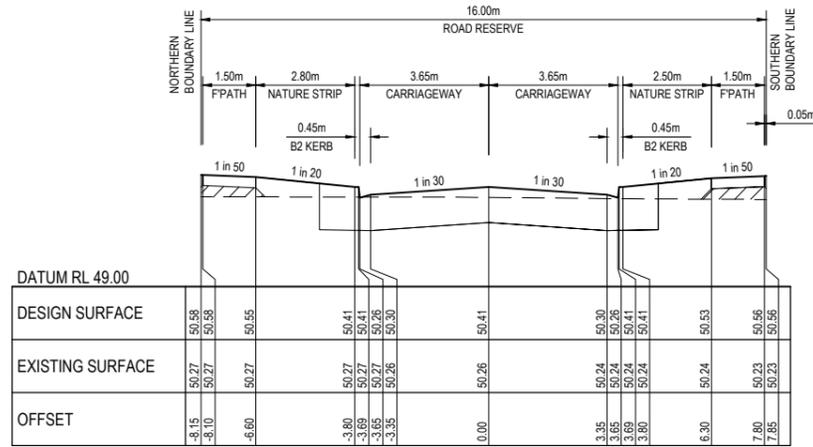
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WYNDHAM CITY COUNCIL	SCALE AS SHOWN
EMERALD PARK STAGE 7	VERSION 0
ROAD CROSS SECTIONS SHEET 2 OF 5	DRAWING No. 12332-7-E-114

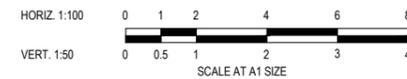


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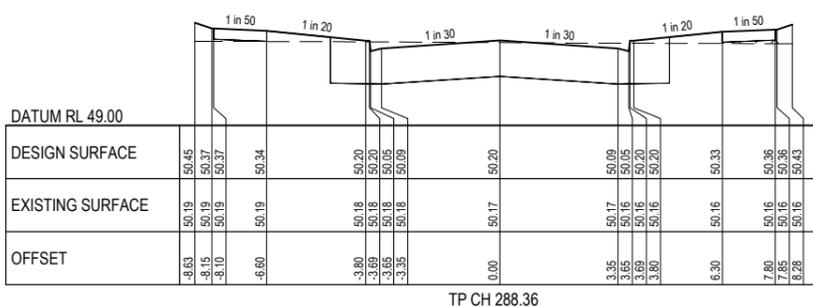
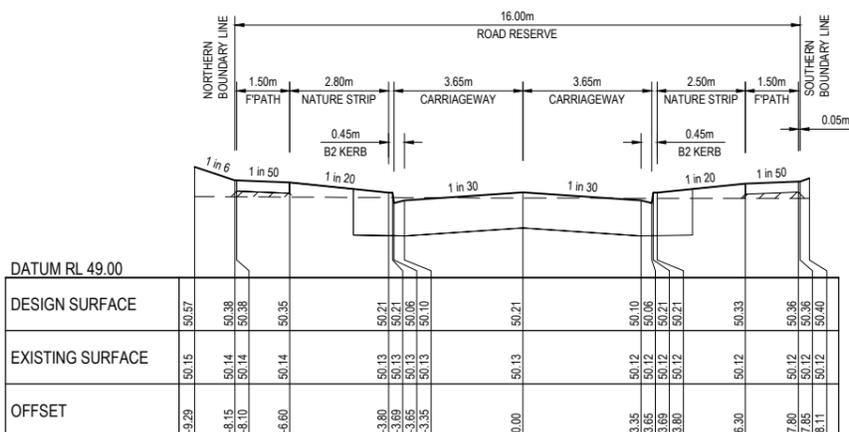
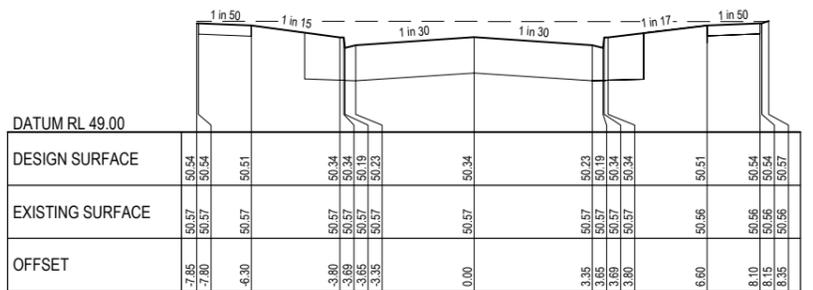
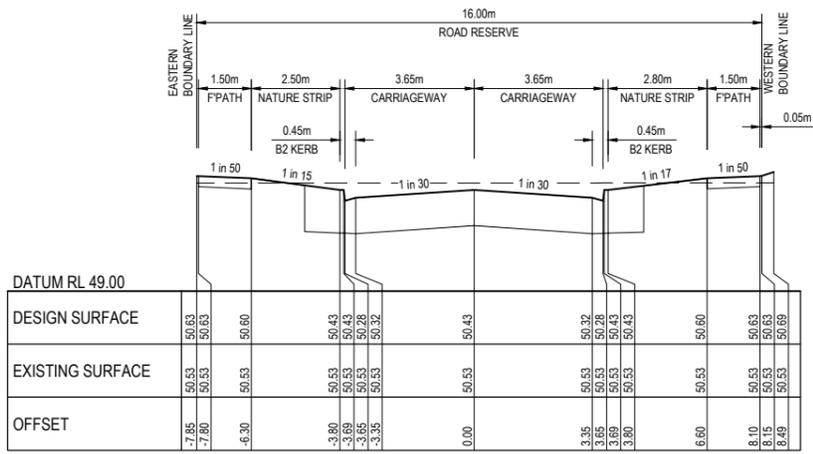
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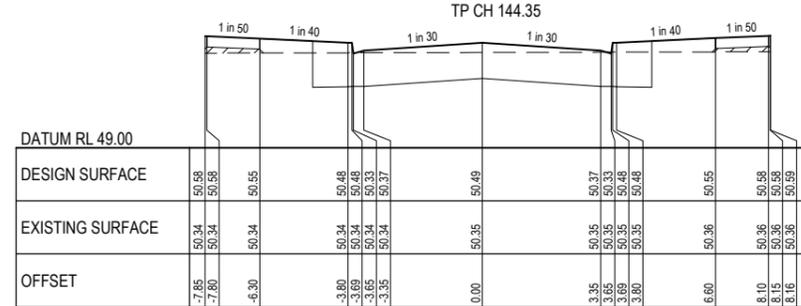
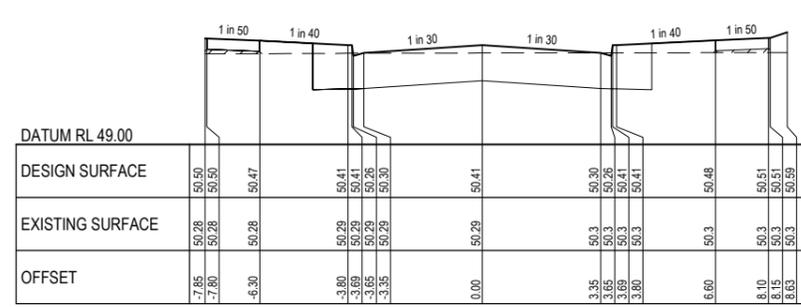
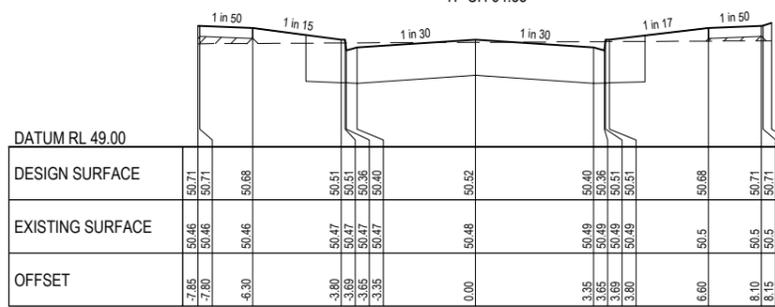
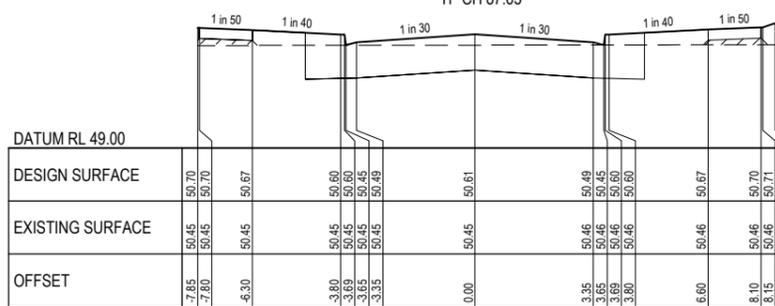
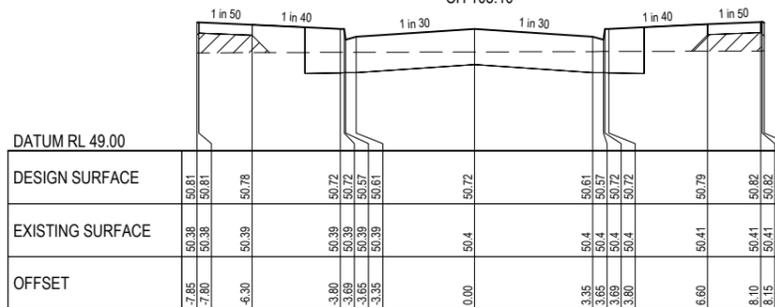
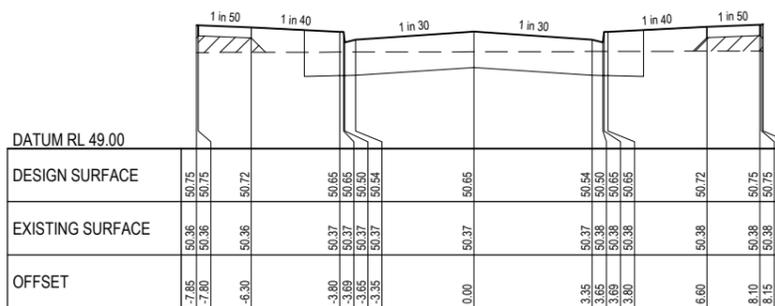
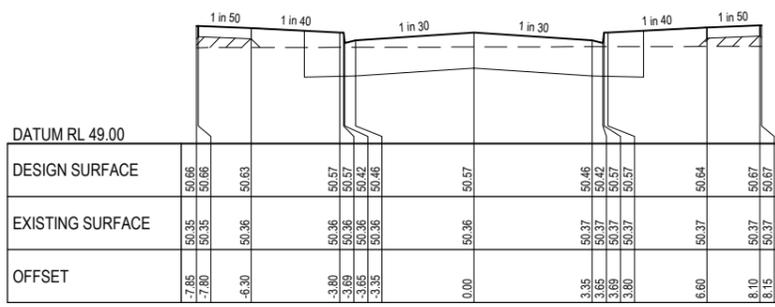
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WYNDHAM CITY COUNCIL	SCALE AS SHOWN
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ROAD CROSS SECTIONS SHEET 3 OF 5	SHEET 16 OF 32
	DRAWING No. 12332-7-E-115



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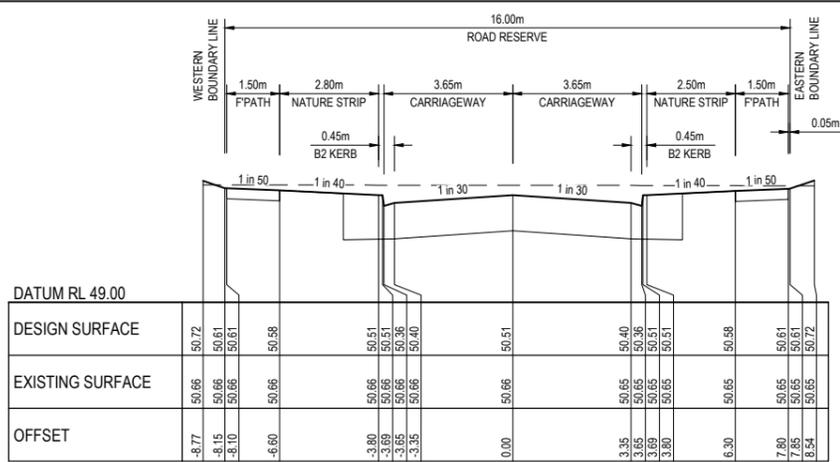
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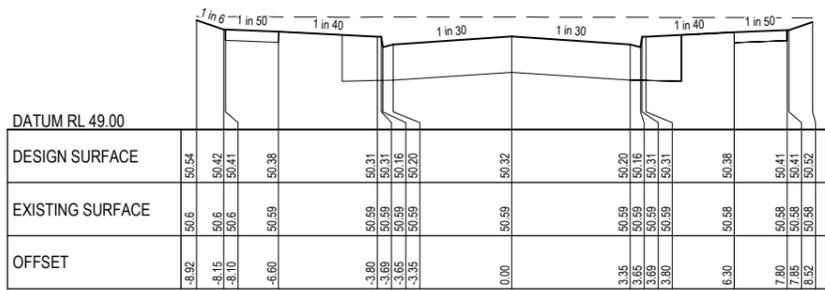
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WYNDHAM CITY COUNCIL
 EMERALD PARK
 STAGE 7
 ROAD CROSS SECTIONS
 SHEET 4 OF 5

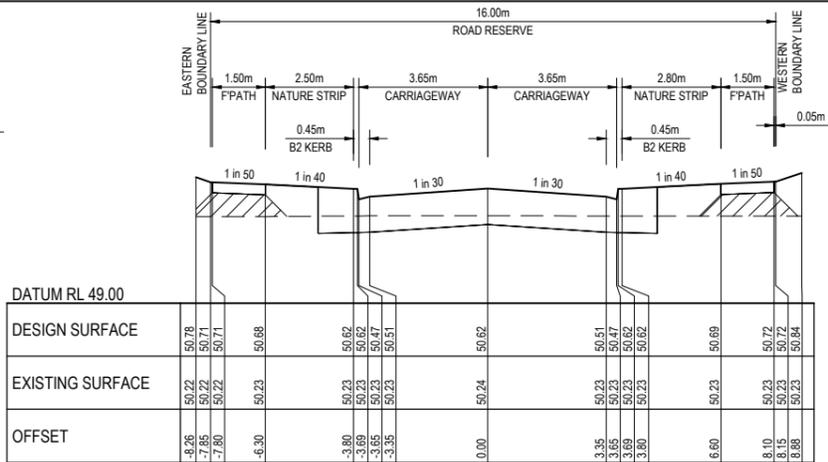
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 SHEET 17 OF 32
 DRAWING No. 12332-7-E-116



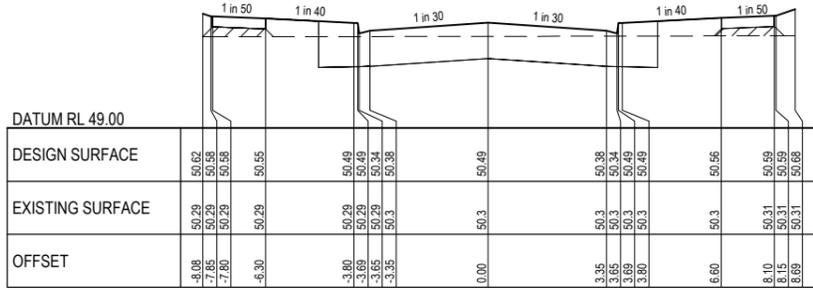
CH 36.15
(LIMIT OF WORKS)



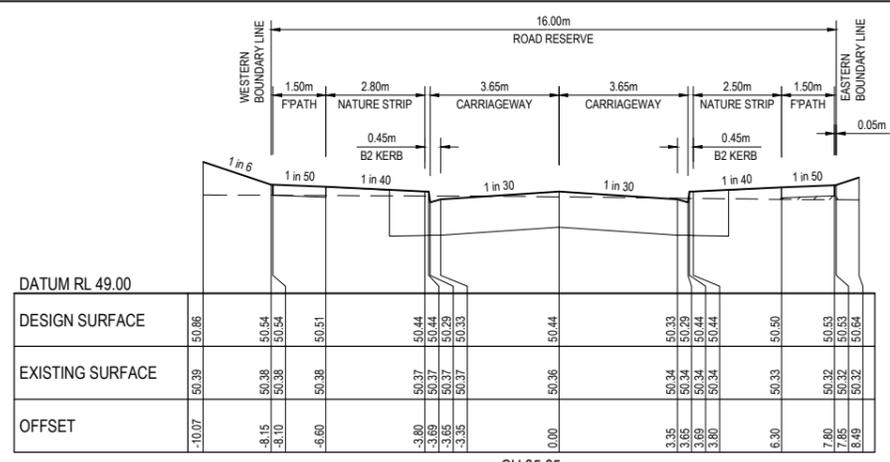
TP CH 11.65
SADDLER STREET



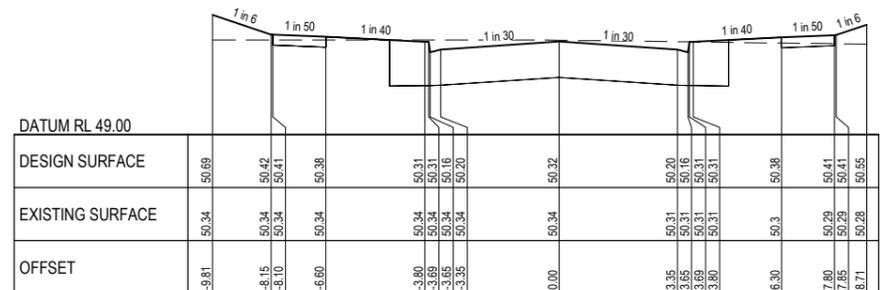
CH 35.85
(LIMIT OF WORKS)



TP CH 11.65
PARA STREET

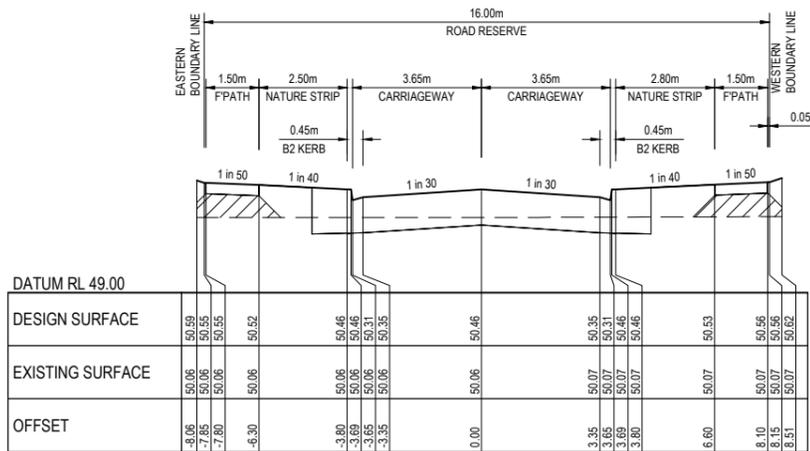


CH 35.85
(LIMIT OF WORKS)

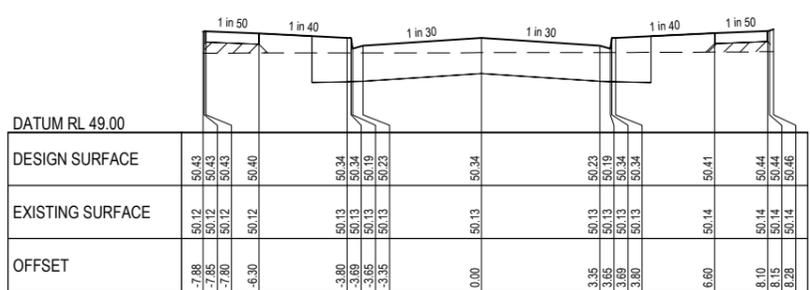


TP CH 11.65
PAVEY STREET

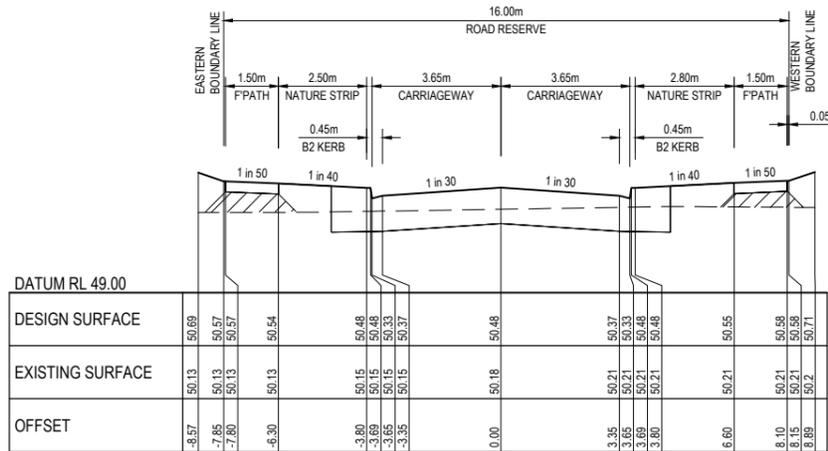
Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018



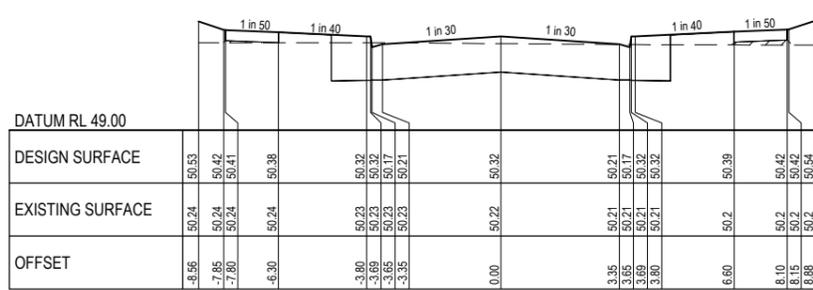
CH 35.85
(LIMIT OF WORKS)



TP CH 11.65
MELISSA STREET



CH 35.85
(LIMIT OF WORKS)

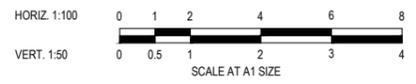


TP CH 11.65
ZAC STREET



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CONSTRUCTION
ISSUED FOR CONSTRUCTION

0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ
VER	DATE	REVISION	APPD.

NOTE:
STRUCTURAL FILL MATERIAL TO BE APPROVED GRANULAR MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED THROUGHOUT TO A DRY DENSITY OF NOT LESS THAN 98% STANDARD COMPACTION

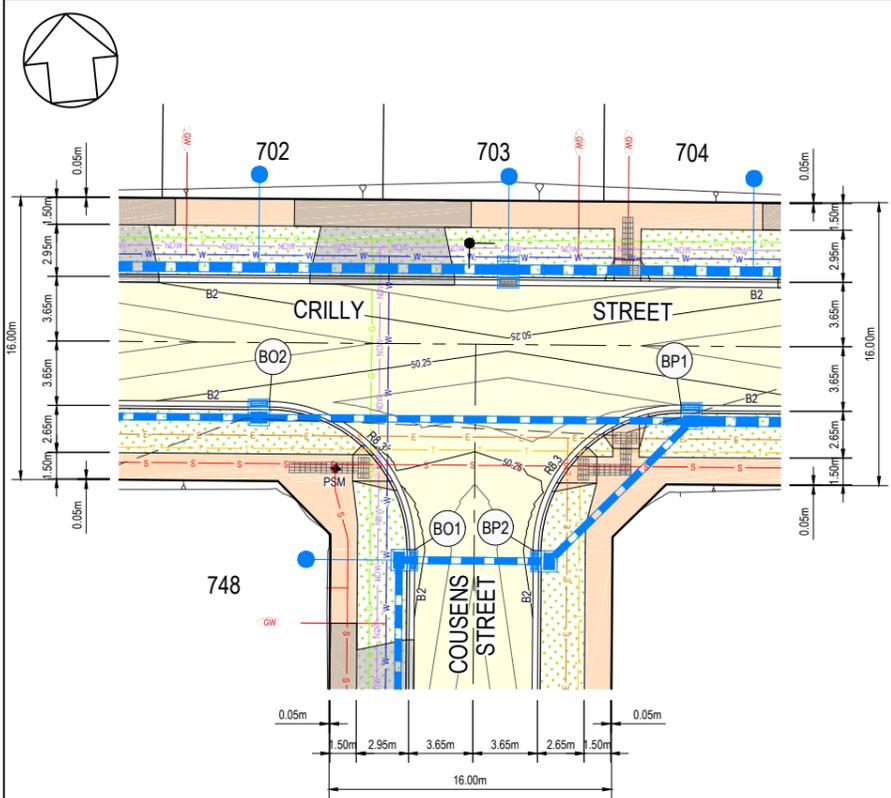
TAYLORS
Urban Development | Infrastructure
8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9671 2800 | Web: taylorsof.com.au

DESIGNED: AKA AUTHORIZED: JOY DRAFTED: KLE
CHECKED: KMJ AUTH. DATE: 19/12/2017 CAD REF: 12332-7-E-113-117

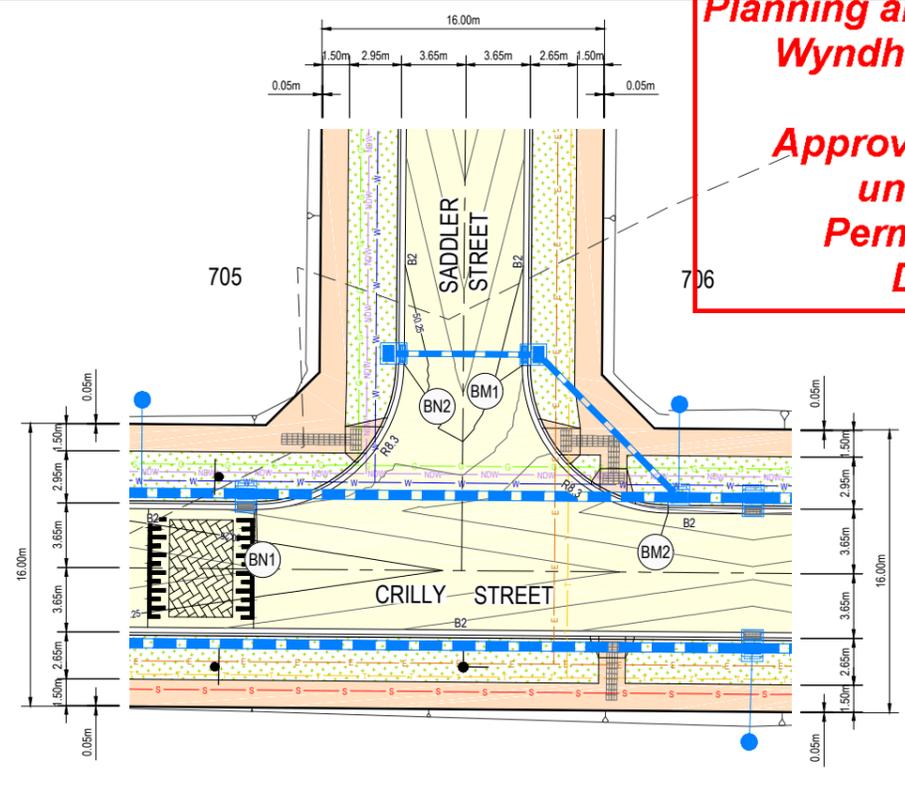
WYNDHAM CITY COUNCIL	SCALE AS SHOWN
EMERALD PARK STAGE 7	VERSION 0
ROAD CROSS SECTIONS SHEET 5 OF 5	DRAWING No. 12332-7-E-117

**Planning and Environment Act 1987
Wyndham Planning Scheme**

**Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018**



**INTERSECTION DETAILS
COUZENS STREET AND CRILLY STREET**
SCALE 1:200 AT A1 SIZE



**INTERSECTION DETAILS
SADDLER STREET AND CRILLY STREET**
SCALE 1:200 AT A1 SIZE

VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM 48

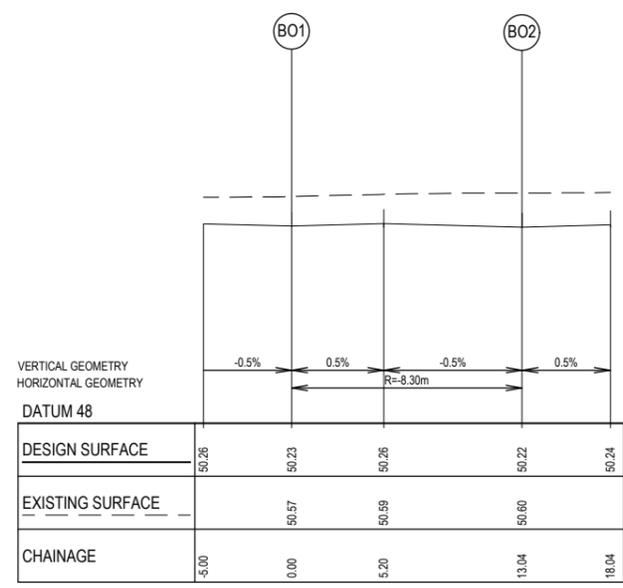
DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
50.25	50.59	-5.00
50.20	50.58	0.00
50.17	50.57	3.26
50.13	50.56	6.52
50.10	50.55	9.78
50.07	50.55	13.04
50.05		18.04

LIP PROFILE BM
HORI 1 in 200
VERT 1 in 40

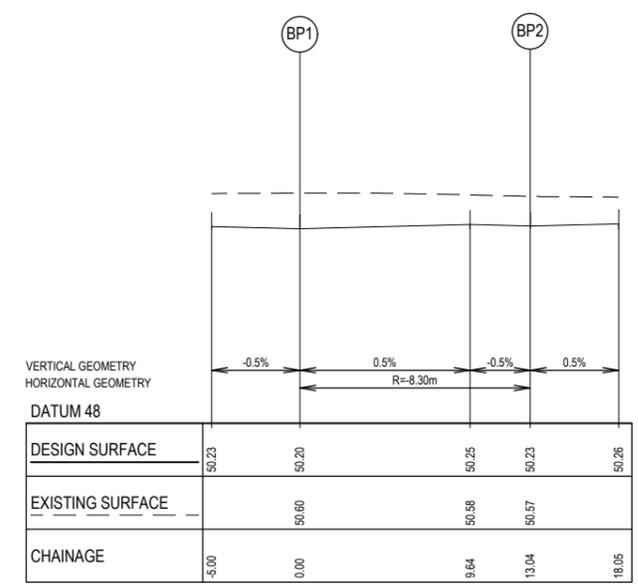
ALIGNMENT BM

POINT NO	EASTING	NORTHING	RL
BM1	295565.603	5811100.951	50.20
BM2	295572.914	5811091.767	50.08

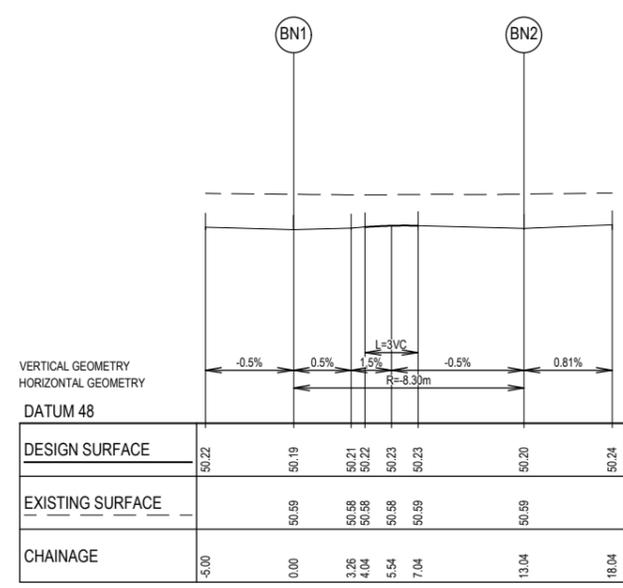
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BM1 - BM2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.14



LIP PROFILE BO
HORI 1 in 200
VERT 1 in 40



LIP PROFILE BP
HORI 1 in 200
VERT 1 in 40



LIP PROFILE BN
HORI 1 in 200
VERT 1 in 40

ALIGNMENT BO

POINT NO	EASTING	NORTHING	RL
BO1	295511.284	5811083.671	50.23
BO2	295503.974	5811092.855	50.22

CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BO1 - BO2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.25

ALIGNMENT BP

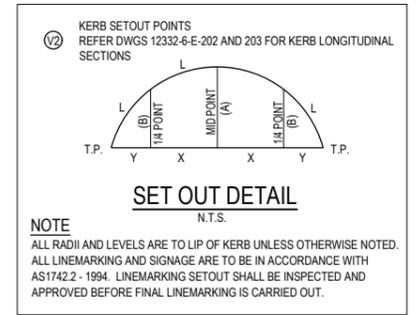
POINT NO	EASTING	NORTHING	RL
BP1	295527.125	5811090.225	50.20
BP2	295517.942	5811082.915	50.23

CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BP1 - BP2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.23

ALIGNMENT BN

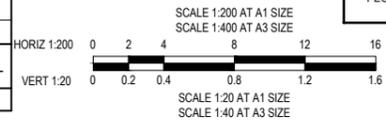
POINT NO	EASTING	NORTHING	RL
BN1	295549.762	5811094.397	50.19
BN2	295558.946	5811101.707	50.21

CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BN1 - BN2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.24



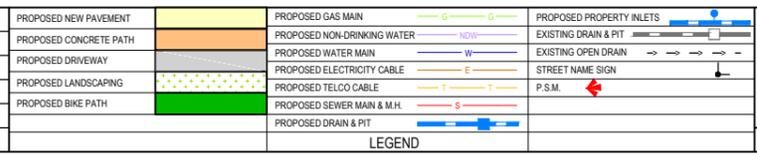
WARNING
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CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ

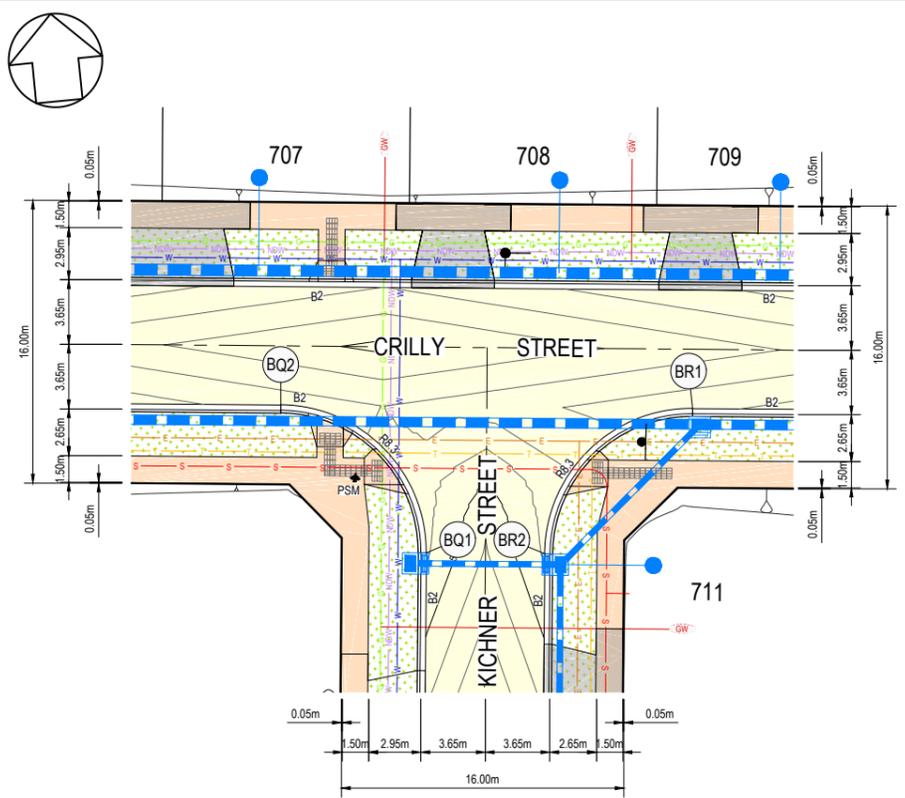


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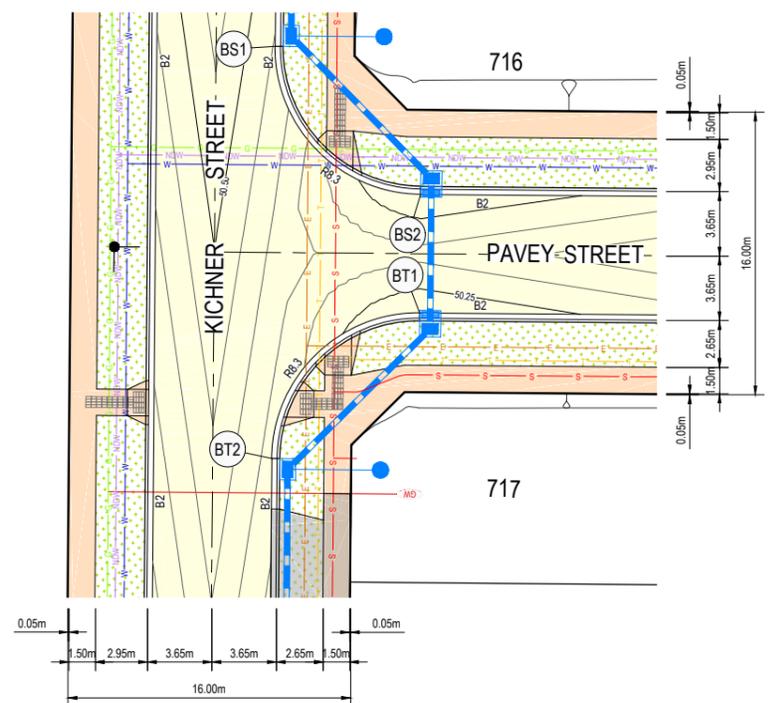
DESIGNED: AKA	AUTHORISED: JOY	DRAFTED: KLE
CHECKED: KMJ	AUTH. DATE: 19/12/2017	CAD REF: 12332-7-E-118-122

Coords: MGA Levels: AHD

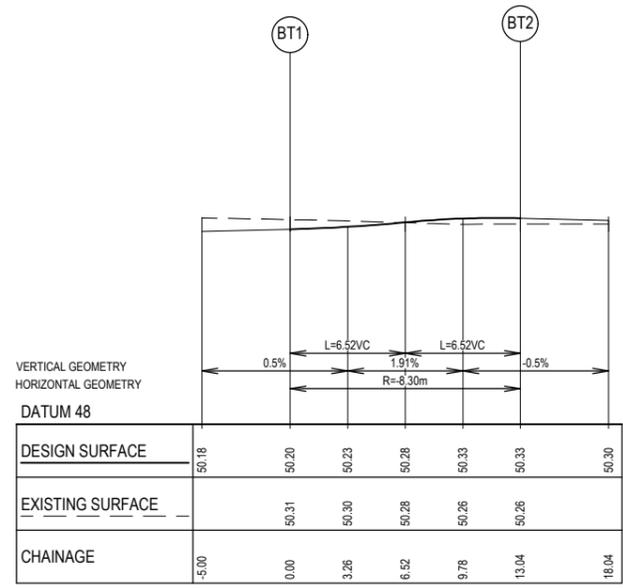
WYNDHAM CITY COUNCIL	SCALE AS SHOWN
EMERALD PARK STAGE 7	VERSION 0
ROAD INTERSECTION DETAIL PLAN	SHEET 19 OF 32
SHEET 1 OF 5	DRAWING No. 12332-7-E-118



INTERSECTION DETAILS
KICHNER STREET AND CRILLY STREET
SCALE 1:200 AT A1 SIZE

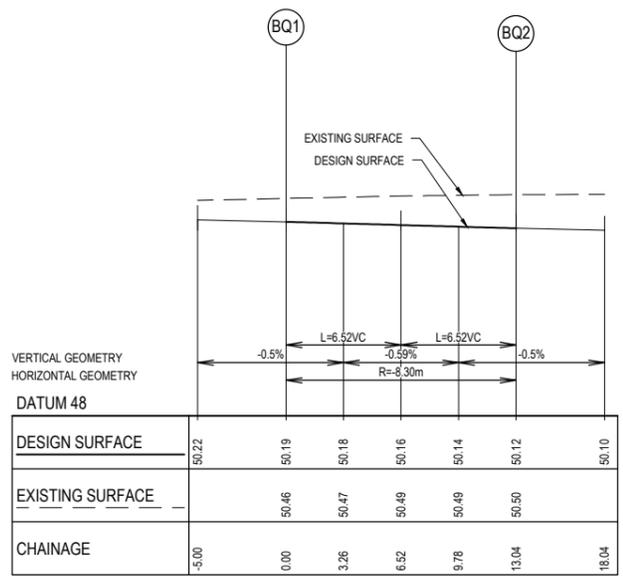


INTERSECTION DETAILS
KICHNER STREET AND PAVEY STREET
SCALE 1:200 AT A1 SIZE

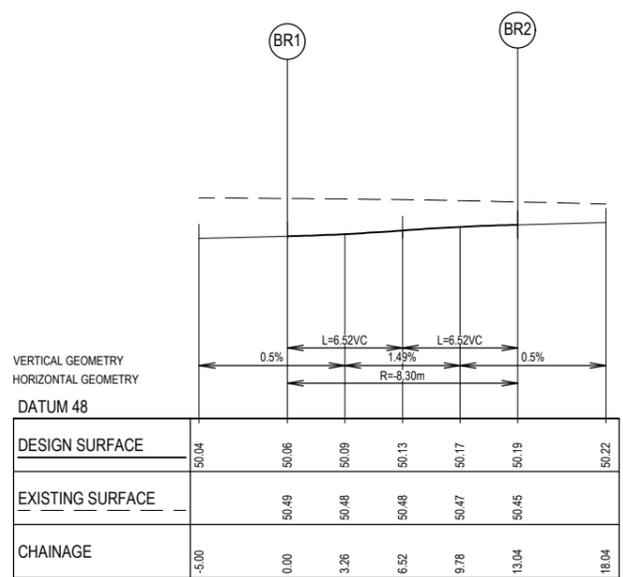


LIP PROFILE BT
HORI 1 in 200
VERT 1 in 40

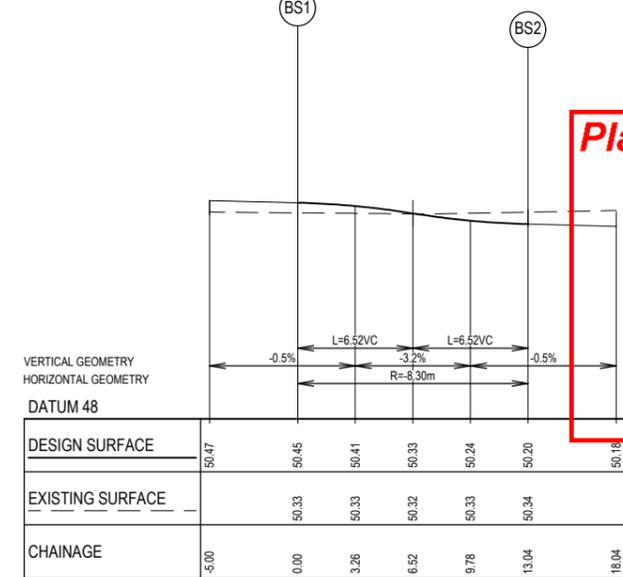
ALIGNMENT BT									
POINT NO	EASTING		NORTHING		RL				
BT1	295605.633		5811004.818		50.21				
BT2	295596.449		5810997.507		50.33				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BT1 - BT2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.28



LIP PROFILE BQ
HORI 1 in 200
VERT 1 in 40



LIP PROFILE BR
HORI 1 in 200
VERT 1 in 40



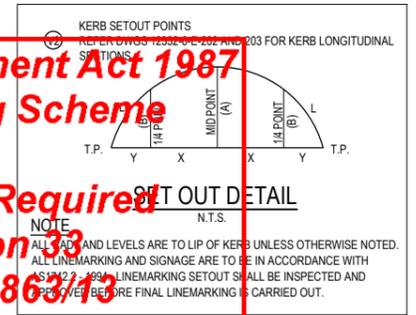
LIP PROFILE BS
HORI 1 in 200
VERT 1 in 40

ALIGNMENT BQ									
POINT NO	EASTING		NORTHING		RL				
BQ1	295598.368		5811073.779		50.19				
BQ2	295591.058		5811082.963		50.12				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BQ1 - BQ2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.16

ALIGNMENT BR									
POINT NO	EASTING		NORTHING		RL				
BS1	295599.078		5811020.659		50.45				
BS2	295606.389		5811011.476		50.21				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BR1 - BR2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.13

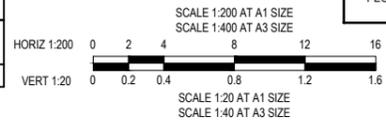
ALIGNMENT BS									
POINT NO	EASTING		NORTHING		RL				
BS1	295599.078		5811020.659		50.27				
BS2	295606.389		5811011.476		50.03				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BS1 - BS2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.33

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
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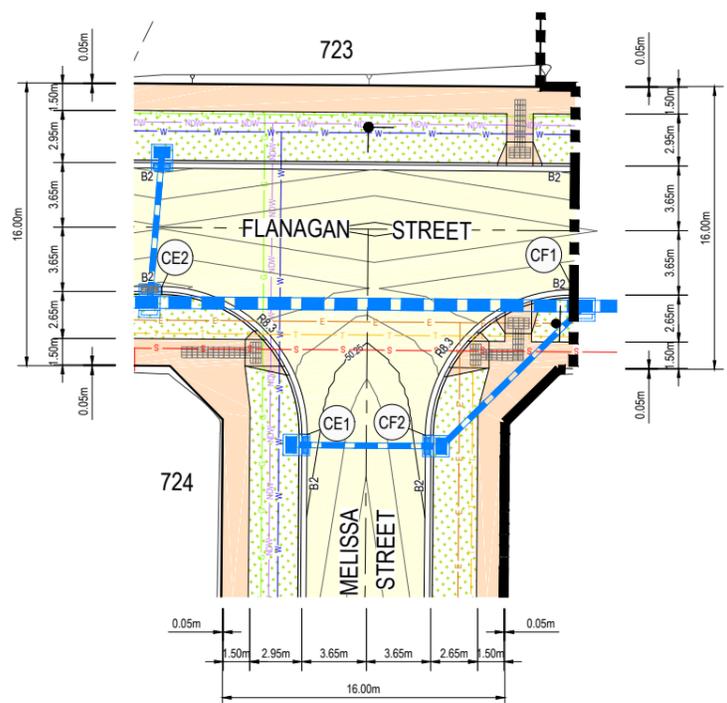


CONSTRUCTION
ISSUED FOR CONSTRUCTION

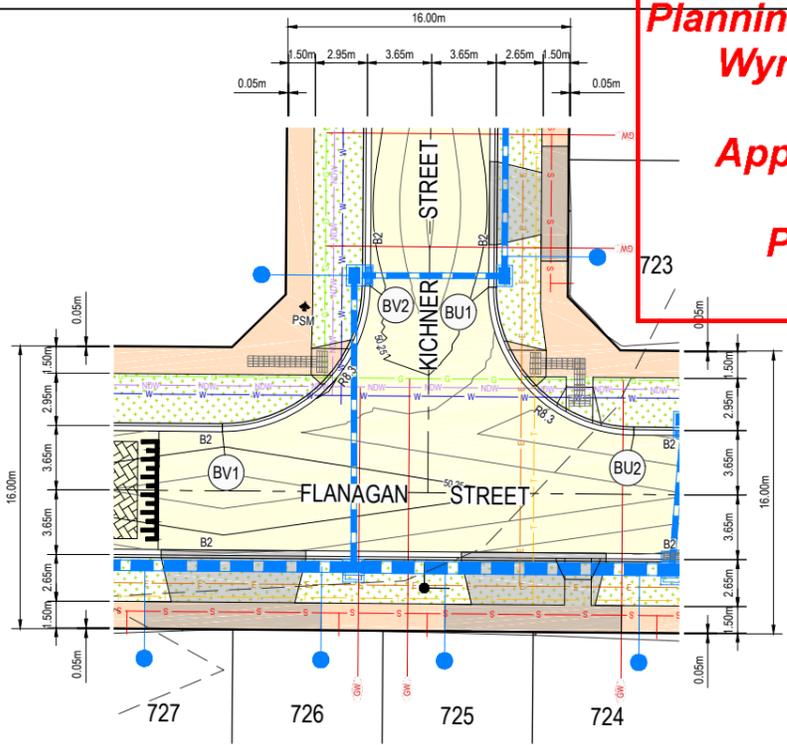
0 02/05/2018 ISSUED FOR CONSTRUCTION KMJ APPD.	PROPOSED NEW PAVEMENT PROPOSED CONCRETE PATH PROPOSED DRIVEWAY PROPOSED LANDSCAPING PROPOSED BIKE PATH	PROPOSED GAS MAIN PROPOSED NON-DRINKING WATER PROPOSED WATER MAIN PROPOSED ELECTRICITY CABLE PROPOSED TELCO CABLE PROPOSED SEWER MAIN & M.H. PROPOSED DRAIN & PIT	PROPOSED PROPERTY INLETS EXISTING DRAIN & PIT EXISTING OPEN DRAIN STREET NAME SIGN P.S.M.		TAYLORS Urban Development Infrastructure 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9001 2800 Web: taylors.com.au	DESIGNED: AKA CHECKED: KMJ	AUTHORISED: JOY AUTH. DATE: 19/12/2017	DRAFTED: KLE CAD REF: 12332-7-E-118-122	WYNDHAM CITY COUNCIL	SCALE AS SHOWN
									EMERALD PARK STAGE 7	VERSION 0 SHEET 20 OF 32 DRAWING No.
ROAD INTERSECTION DETAIL PLAN SHEET 2 OF 5									12332-7-E-119	



Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018



INTERSECTION DETAILS
FLANAGAN STREET AND MELISSA STREET
 SCALE 1:200 AT A1 SIZE



INTERSECTION DETAILS
FLANAGAN STREET AND MELISSA STREET
 SCALE 1:200 AT A1 SIZE

VERTICAL GEOMETRY
 HORIZONTAL GEOMETRY
 DATUM 48

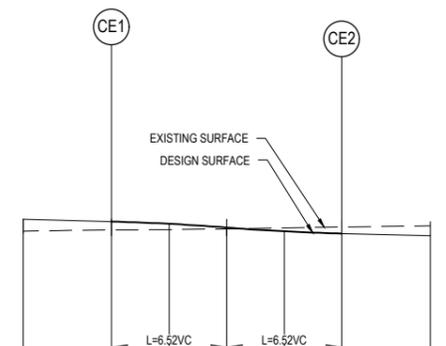
DESIGN SURFACE	50.27	50.22	50.11	50.08
EXISTING SURFACE		50.24	50.19	
CHAINAGE	-5.00	0.00	13.04	18.05

LIP PROFILE BU
 HORI 1 in 200
 VERT 1 in 40

ALIGNMENT BU

POINT NO	EASTING	NORTHING	RL
BU1	295590.051	5810941.170	50.22
BU2	295597.361	5810931.987	50.11

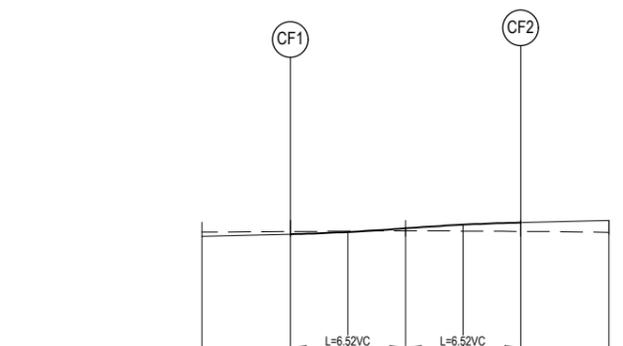
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BU1 - BU2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.16



VERTICAL GEOMETRY
 HORIZONTAL GEOMETRY
 DATUM 48

DESIGN SURFACE	50.25	50.23	50.20	50.16	50.12	50.09	50.07
EXISTING SURFACE		50.13	50.14	50.14	50.16	50.17	
CHAINAGE	-5.00	0.00	3.26	6.52	9.78	13.04	18.04

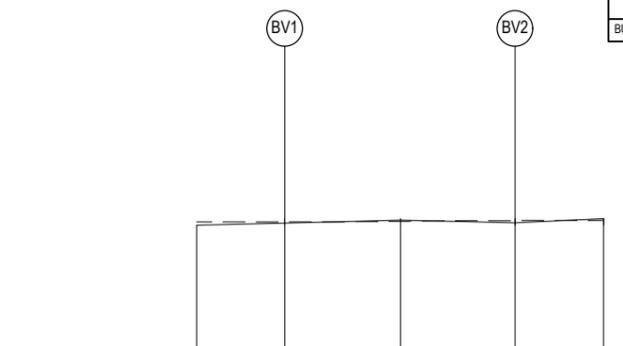
LIP PROFILE CE
 HORI 1 in 200
 VERT 1 in 40



VERTICAL GEOMETRY
 HORIZONTAL GEOMETRY
 DATUM 48

DESIGN SURFACE	50.07	50.10	50.12	50.16	50.20	50.23	50.25
EXISTING SURFACE		50.12	50.13	50.13	50.13	50.13	
CHAINAGE	-5.00	0.00	3.26	6.52	9.78	13.04	18.04

LIP PROFILE CF
 HORI 1 in 200
 VERT 1 in 40



VERTICAL GEOMETRY
 HORIZONTAL GEOMETRY
 DATUM 48

DESIGN SURFACE	50.20	50.22	50.25	50.22	50.27
EXISTING SURFACE		50.23	50.24	50.25	
CHAINAGE	-5.00	0.00	6.56	13.04	18.05

LIP PROFILE BV
 HORI 1 in 200
 VERT 1 in 40

SET OUT DETAIL
 N.T.S.

NOTE
 ALL RADII AND LEVELS ARE TO LIP OF KERB UNLESS OTHERWISE NOTED.
 ALL LINEMARKING AND SIGNAGE ARE TO BE IN ACCORDANCE WITH AS1742.2 - 1994. LINEMARKING SETOUT SHALL BE INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.



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ALIGNMENT CE

POINT NO	EASTING	NORTHING	RL
CE1	295606.775	5810915.821	50.23
CE2	295599.465	5810925.005	50.09

CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
CE1 - CE2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.16

ALIGNMENT CF

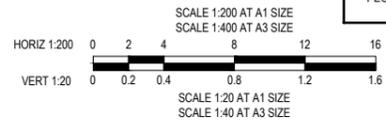
POINT NO	EASTING	NORTHING	RL
CF1	295622.616	5810922.375	50.10
CF2	295613.432	5810915.065	50.23

CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
CF1 - CF2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.16

ALIGNMENT BV

POINT NO	EASTING	NORTHING	RL
BV1	295574.210	5810934.617	50.22
BV2	295583.394	5810941.927	50.22

CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BV1 - BV2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.25



CONSTRUCTION
 ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ

LEGEND

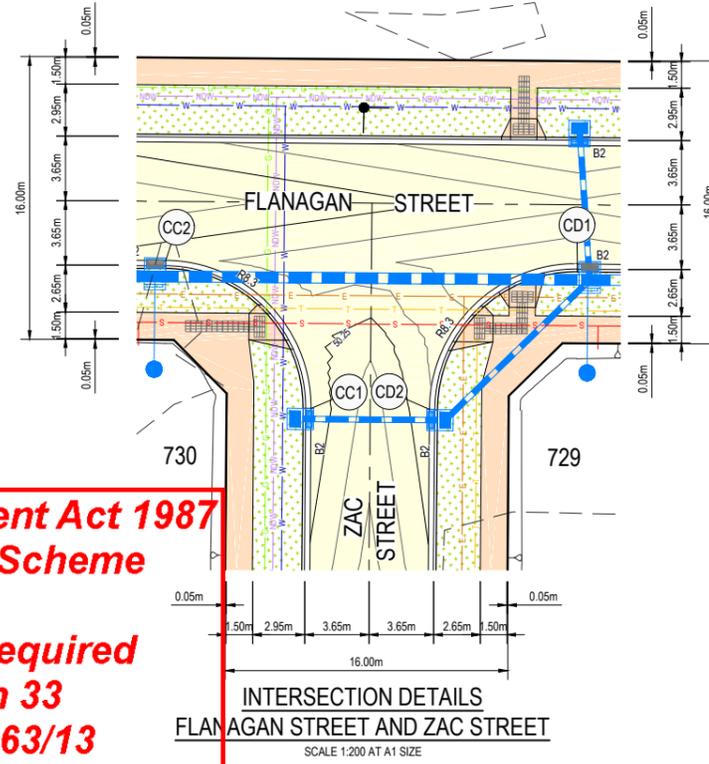
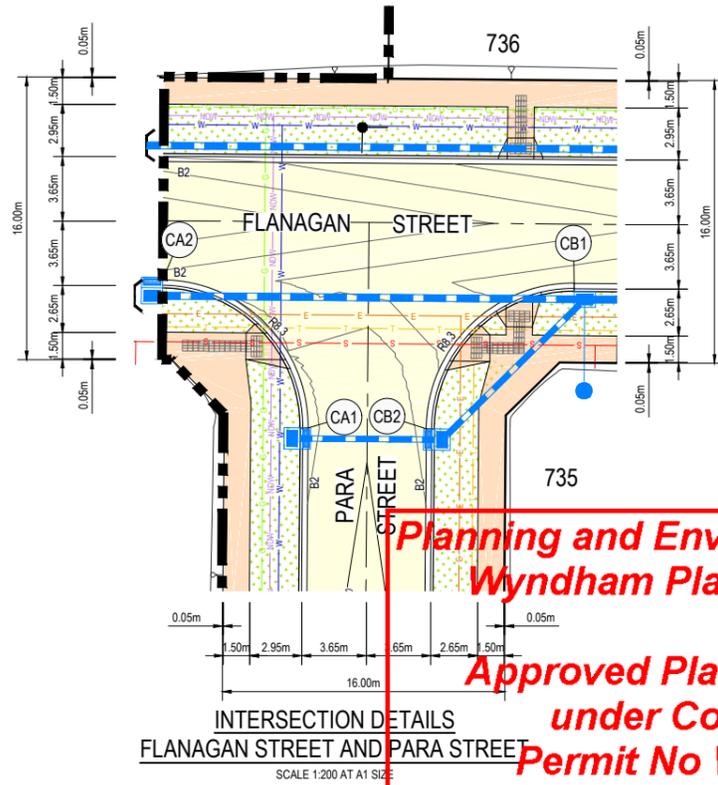
PROPOSED NEW PAVEMENT	PROPOSED GAS MAIN	PROPOSED PROPERTY INLETS
PROPOSED CONCRETE PATH	PROPOSED NON-DRINKING WATER	EXISTING DRAIN & PIT
PROPOSED DRIVEWAY	PROPOSED WATER MAIN	EXISTING OPEN DRAIN
PROPOSED LANDSCAPING	PROPOSED ELECTRICITY CABLE	STREET NAME SIGN
PROPOSED BIKE PATH	PROPOSED TELCO CABLE	P.S.M.
	PROPOSED SEWER MAIN & M.H.	
	PROPOSED DRAIN & PIT	

TAYLORS
 Urban Development | Infrastructure
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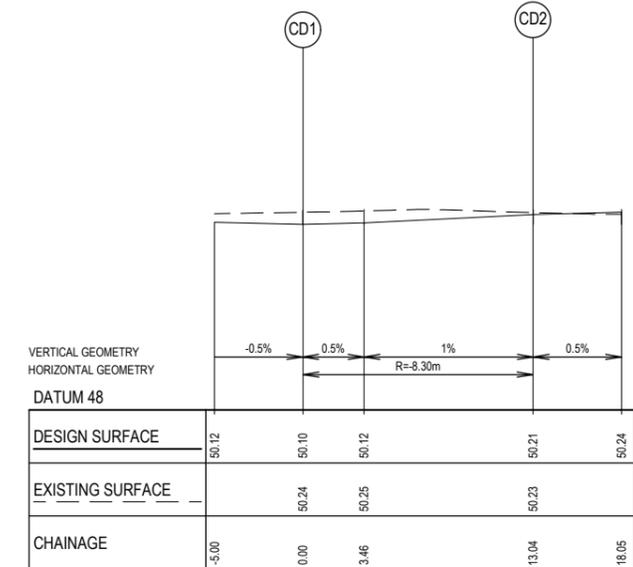
DESIGNED: AKA AUTHORIZED: JOY DRAFTED: KLE
 CHECKED: KMJ AUTH. DATE: 19/12/2017 CAD REF: 12332-7-E-118-122

WYNDHAM CITY COUNCIL
 EMERALD PARK
 STAGE 7
 ROAD INTERSECTION DETAIL PLAN
 SHEET 3 OF 5

SCALE AS SHOWN
 VERSION 0
 SHEET 21 OF 32
 DRAWING No.
12332-7-E-120

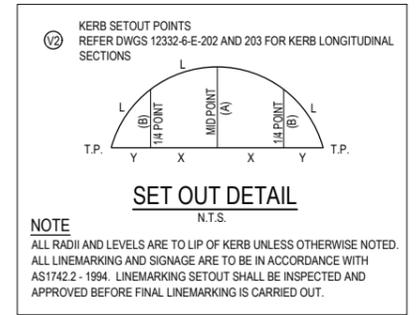
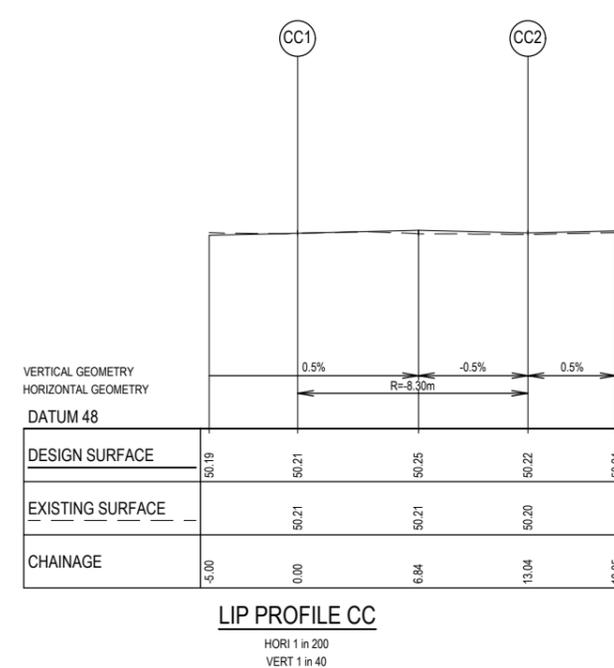
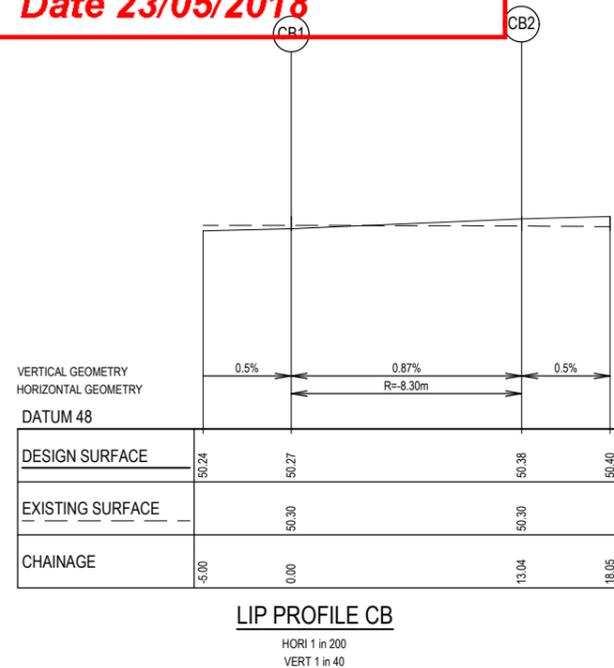
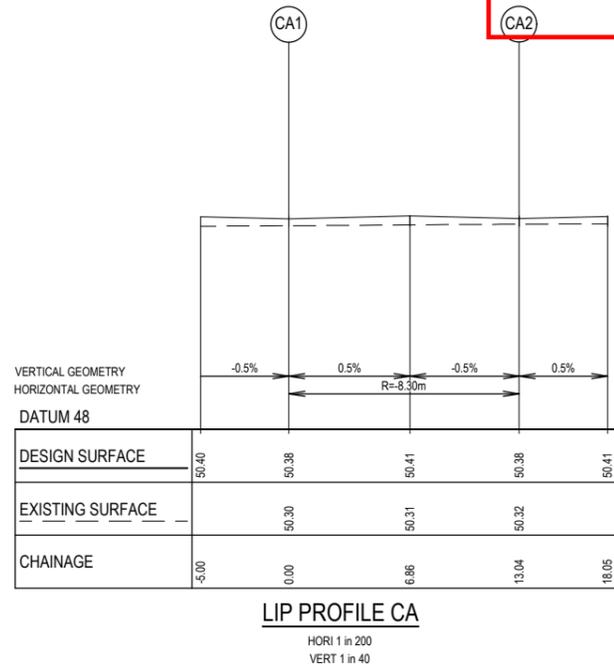


Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018



LIP PROFILE CD
HORI 1 in 200
VERT 1 in 40

ALIGNMENT CD									
POINT NO	EASTING		NORTHING		RL				
CD1	295549.089		5810930.727		50.10				
CD2	295539.905		5810923.417		50.21				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
CD1 - CD2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.15



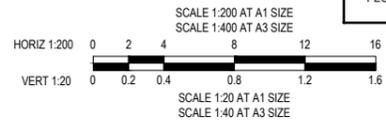
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ALIGNMENT CA									
POINT NO	EASTING		NORTHING		RL				
CA1	295459.720		5810932.524		50.38				
CA2	295452.410		5810941.709		50.38				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
CA1 - CA2	90.01	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.41

ALIGNMENT CB									
POINT NO	EASTING		NORTHING		RL				
CB1	295475.561		5810939.079		50.27				
CB2	295466.378		5810931.769		50.38				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
CB1 - CB2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.32

ALIGNMENT CC									
POINT NO	EASTING		NORTHING		RL				
CC1	295533.248		5810924.173		50.21				
CC2	295525.938		5810933.357		50.22				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
CC1 - CC2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.25



CONSTRUCTION
ISSUED FOR CONSTRUCTION

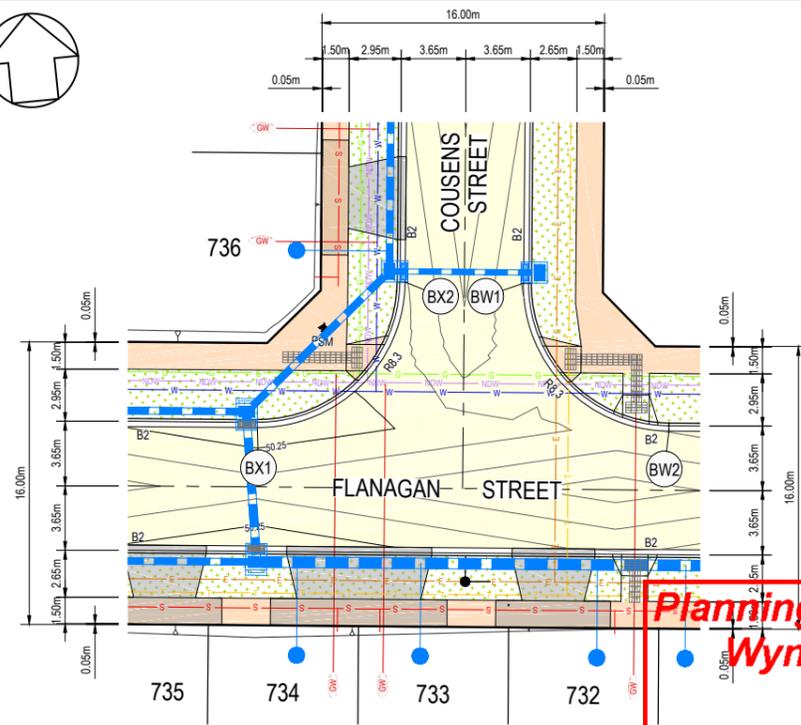
VER	DATE	REVISION	APPD.
0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ

PROPOSED NEW PAVEMENT		PROPOSED GAS MAIN		PROPOSED PROPERTY INLETS	
PROPOSED CONCRETE PATH	PROPOSED WATER MAIN	PROPOSED NON-DRINKING WATER	EXISTING DRAIN & PIT	EXISTING OPEN DRAIN	STREET NAME SIGN
PROPOSED DRIVEWAY	PROPOSED ELECTRICITY CABLE	PROPOSED TELCO CABLE	P.S.M.		
PROPOSED LANDSCAPING	PROPOSED SEWER MAIN & M.H.	PROPOSED DRAIN & PIT			

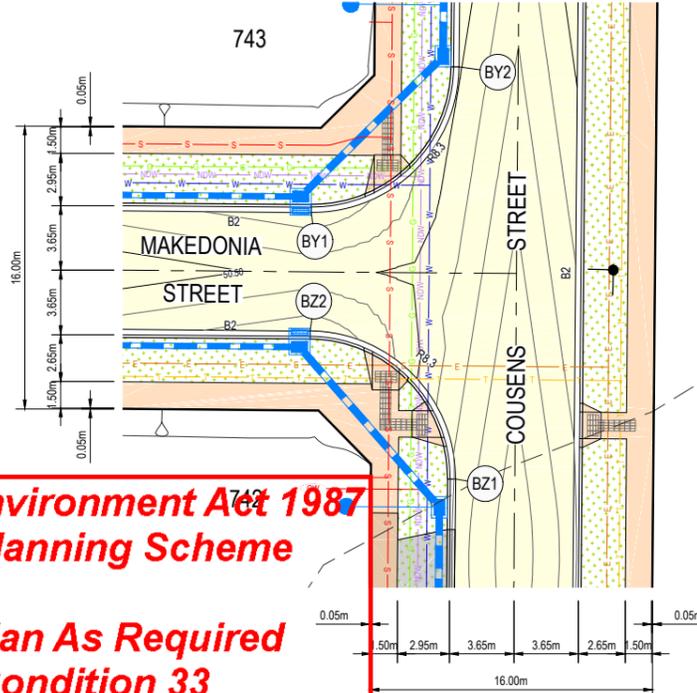
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Urban Development | Infrastructure
8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9001 2800 | Web: taylors.com.au

DESIGNED: AKA	AUTHORISED: JOY	DRAFTED: KLE
CHECKED: KMJ	AUTH. DATE: 19/12/2017	CAD REF: 12332-7-E-118-122

WYNDHAM CITY COUNCIL	SCALE AS SHOWN
EMERALD PARK STAGE 7	VERSION 0
ROAD INTERSECTION DETAIL PLAN	SHEET 22 OF 32
SHEET 4 OF 5	DRAWING No. 12332-7-E-121

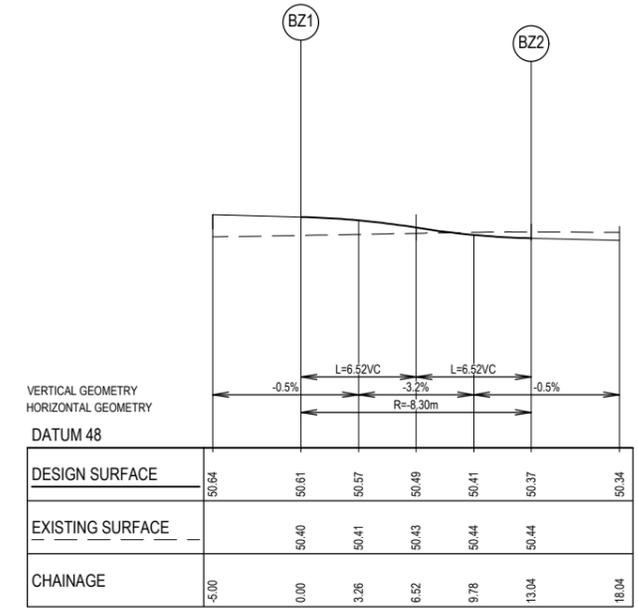


COUZENS STREET AND FLANAGAN STREET
SCALE 1:200 AT A1 SIZE



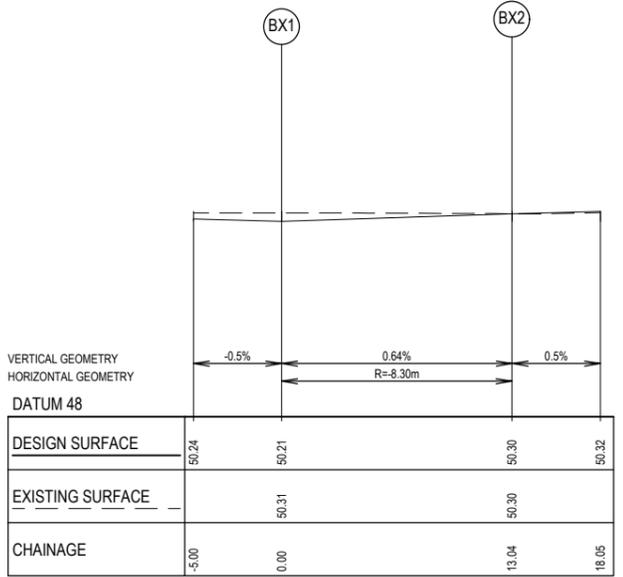
INTERSECTION DETAILS
COUZENS STREET AND MAKEDONIA STREET
SCALE 1:200 AT A1 SIZE

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018

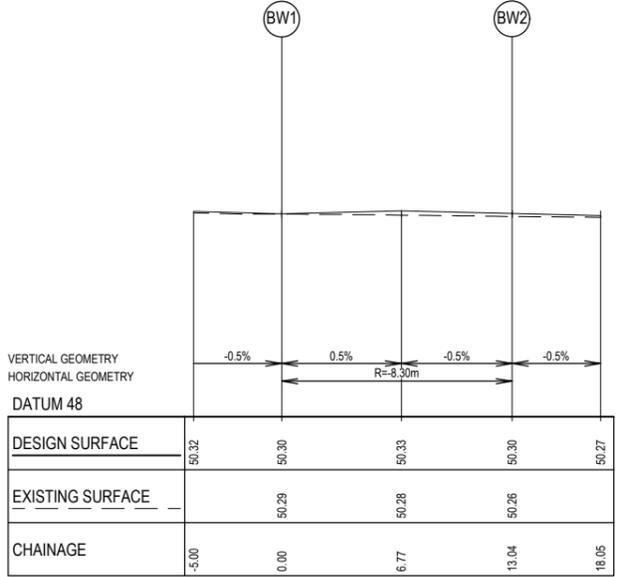


LIP PROFILE BZ
HORI 1 in 200
VERT 1 in 40

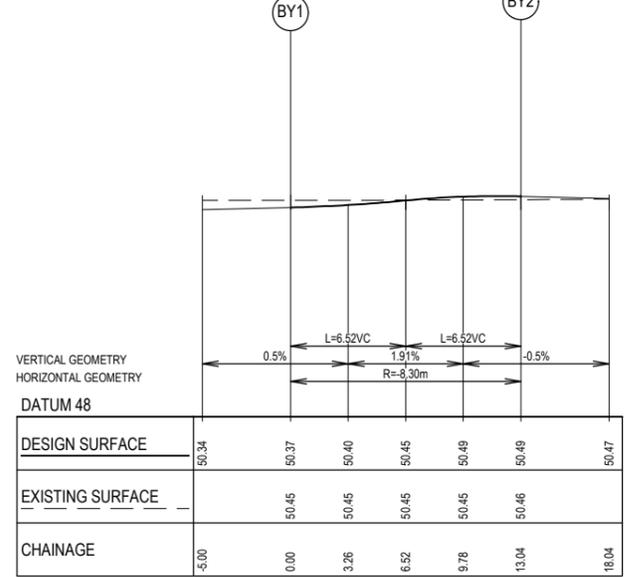
ALIGNMENT BZ									
POINT NO	EASTING		NORTHING		RL				
BZ1	295502.708		5811008.157		50.61				
BZ2	295495.398		5811017.340		50.37				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BZ1 - BZ2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.49



LIP PROFILE BX
HORI 1 in 200
VERT 1 in 40



LIP PROFILE BW
HORI 1 in 200
VERT 1 in 40



LIP PROFILE BY
HORI 1 in 200
VERT 1 in 40

(V2) KERB SETOUT POINTS
 REFER DWGS 12332-6-E-202 AND 203 FOR KERB LONGITUDINAL SECTIONS

SET OUT DETAIL
N.T.S.

NOTE
ALL RADII AND LEVELS ARE TO LIP OF KERB UNLESS OTHERWISE NOTED.
ALL LINEMARKING AND SIGNAGE ARE TO BE IN ACCORDANCE WITH AS1742.2 - 1994. LINEMARKING SETOUT SHALL BE INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.



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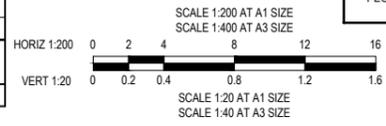
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ALIGNMENT BX									
POINT NO	EASTING		NORTHING		RL				
BX1	295487.126		5810944.509		50.21				
BX2	295496.310		5810951.819		50.30				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	I	MID POINT RL
BX1 - BX2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.25

ALIGNMENT BW									
POINT NO	EASTING		NORTHING		RL				
BW1	295502.967		5810951.062		50.30				
BW2	295510.277		5810941.879		50.30				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
BW1 - BW2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.33

ALIGNMENT BY									
POINT NO	EASTING		NORTHING		RL				
BY1	295496.154		5811023.998		50.37				
BY2	295505.337		5811031.308		50.50				
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
BY1 - BY2	90.00	8.30	13.04	2.43	1.80	3.18	2.69	3.26	50.45



CONSTRUCTION
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PROPOSED NEW PAVEMENT	PROPOSED GAS MAIN	PROPOSED PROPERTY INLETS
PROPOSED CONCRETE PATH	PROPOSED NON-DRINKING WATER	EXISTING DRAIN & PIT
PROPOSED DRIVEWAY	PROPOSED WATER MAIN	EXISTING OPEN DRAIN
PROPOSED LANDSCAPING	PROPOSED ELECTRICITY CABLE	STREET NAME SIGN
PROPOSED BIKE PATH	PROPOSED TELCO CABLE	P.S.M.
	PROPOSED SEWER MAIN & M.H.	
	PROPOSED DRAIN & PIT	

TAYLORS
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CHECKED: KMJ	AUTH. DATE: 19/12/2017	CAD REF: 12332-7-E-118-122

WYNDHAM CITY COUNCIL	SCALE AS SHOWN
EMERALD PARK STAGE 7	VERSION 0
ROAD INTERSECTION DETAIL PLAN	SHEET 23 OF 32
SHEET 5 OF 5	DRAWING No. 12332-7-E-122



INSTALLATION NOTES:

- CIVIL CONTRACTOR
- CONSTRUCT ROADWORKS AS SHOWN.
 - CONSTRUCT DDA COMPLIANT PRAM CROSSINGS IN ACCORDANCE WITH AS1428.
 - CONSTRUCT CUT-THROUGH WALKWAYS AS SHOWN IN ACCORDANCE WITH AS1428.
 - SUPPLY AND INSTALL PUBLIC LIGHTING AND REMOVE ANY REDUNDANT POLES OR EQUIPMENT. REFER GENERAL NOTES ON DWG 02230-03-E-100.
 - CONSTRUCT (SUPPLY ALL MATERIALS AND LABOR) PEDESTRIAN FOOTPATH AS SHOWN.
 - LINEMARK AS SHOWN AND REMOVE ANY REDUNDANT MARKINGS.
 - SUPPLY AND INSTALL RRPM'S AND RPM'S AS SHOWN AND REMOVE ANY REDUNDANT MARKERS.
 - SUPPLY AND INSTALL ROAD SIGNS WHERE SHOWN AND REMOVE ANY REDUNDANT SIGNS.
 - ALL VESI PITS AND ASSOCIATED CONDUITS TO BE INSTALLED BY POWER COMPANY APPROVED PRE-QUALIFIED ELECTRICAL CONTRACTORS.

LINEMARKING NOTES:

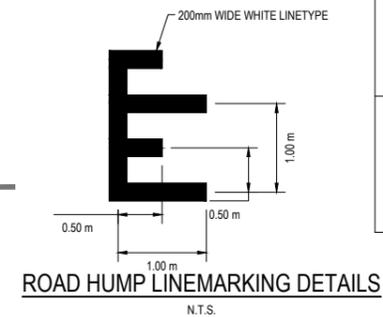
- ALL DIMENSIONS ARE TO FACE OF KERB AND CHANNEL UNLESS OTHERWISE NOTED.
- LINEMARKING IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2: SIGNS AND LINEMARKING.

LINEMARKING LEGEND

- RAISED PAVEMENT LINEMARKING REFER DETAIL
- TGSi (TACTILE GROUND SURFACE INDICATORS)

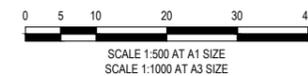
SIGNAGE LEGEND

SIGN	TYPE
	S1
	S2
	S3
	S4



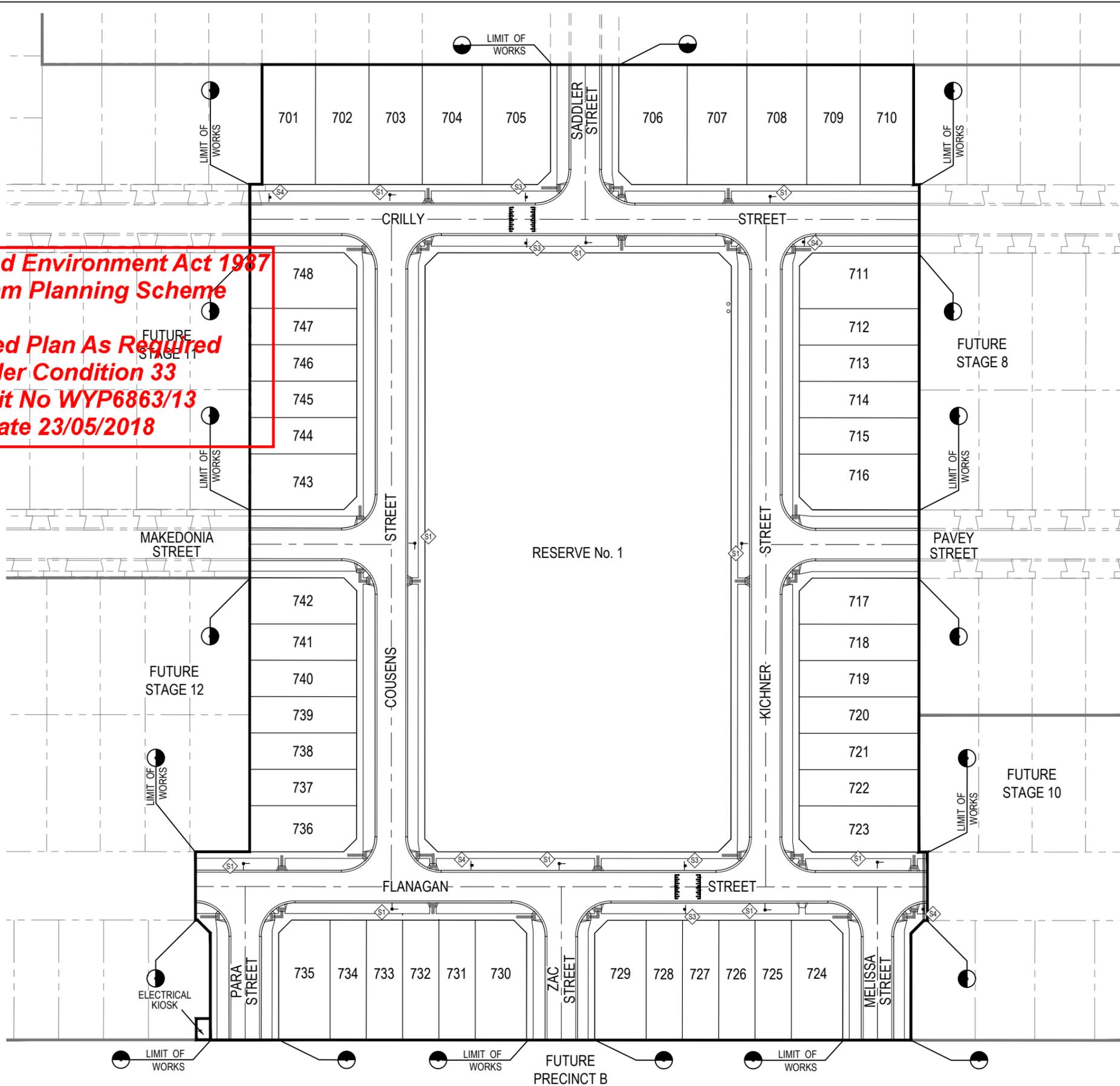
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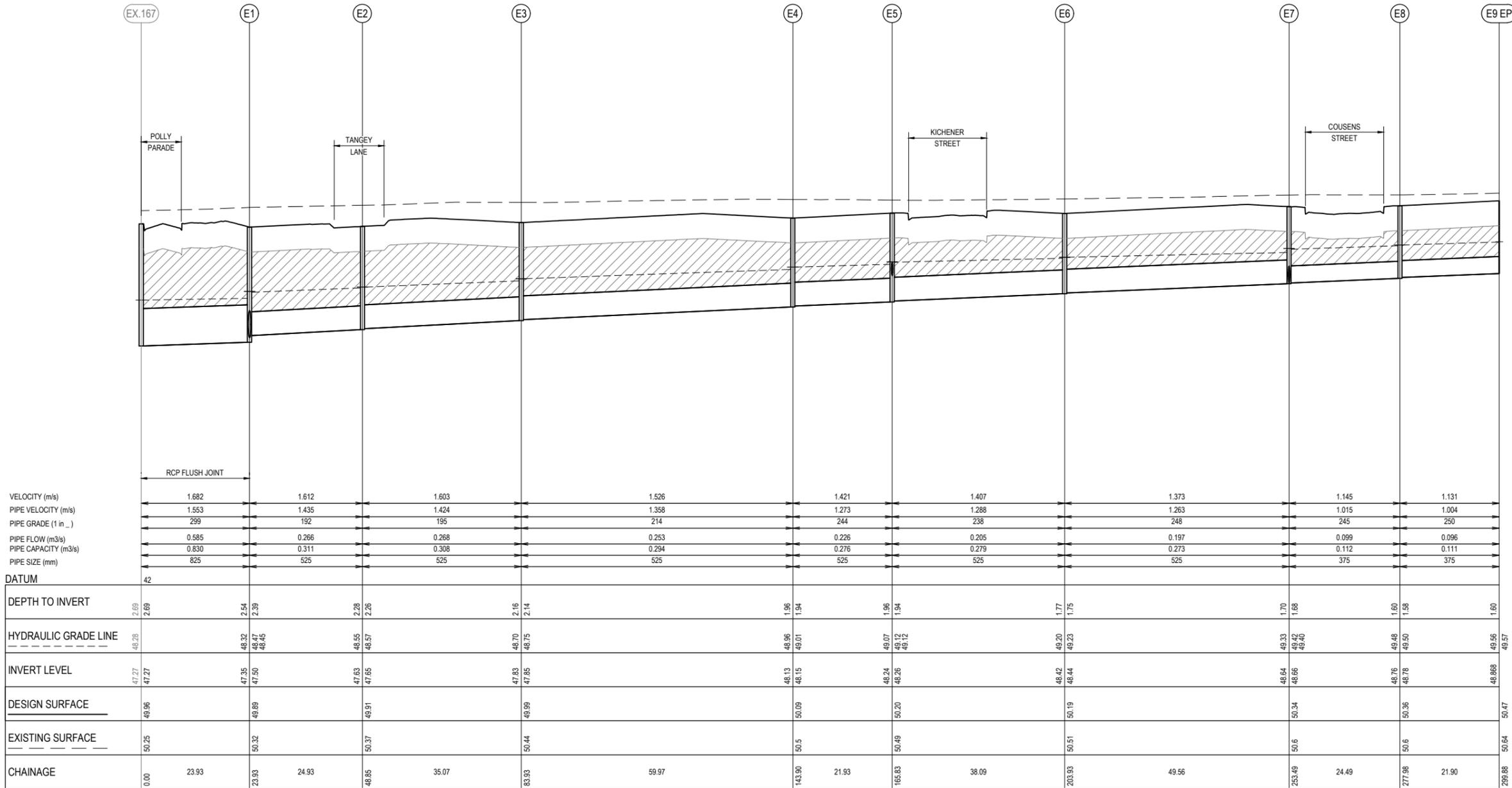
TAYLORS
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8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2800 | Web: taylors.com.au

DESIGNED: AKA AUTHORIZED: JOY DRAFTED: KLE
CHECKED: KMJ AUTH. DATE: 19/12/2017 CAD REF: 12332-7-E-123

Coords: MGA Levels: AHD

WYNDHAM CITY COUNCIL	SCALE 1:500 @ A1, 1:1000 @ A3
EMERALD PARK STAGE 7	VERSION 0
SIGNS AND LINEMARKING PLAN	SHEET 24 OF 32
	DRAWING No. 12332-7-E-123

NOTES:
 PIPE CLASS TO BE CLASS 2 UNLESS OTHERWISE NOTED.
 PROVIDE 20mm CLASS 3 FCR BACKFILL BETWEEN THE MELBOURNE WATER AND THE PROPOSED COUNCIL DRAIN



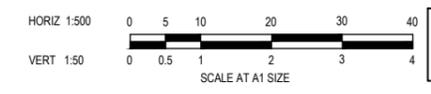
Planning and Environment Act 1987
Wyndham Planning Scheme

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VER	DATE	REVISION	APPD.

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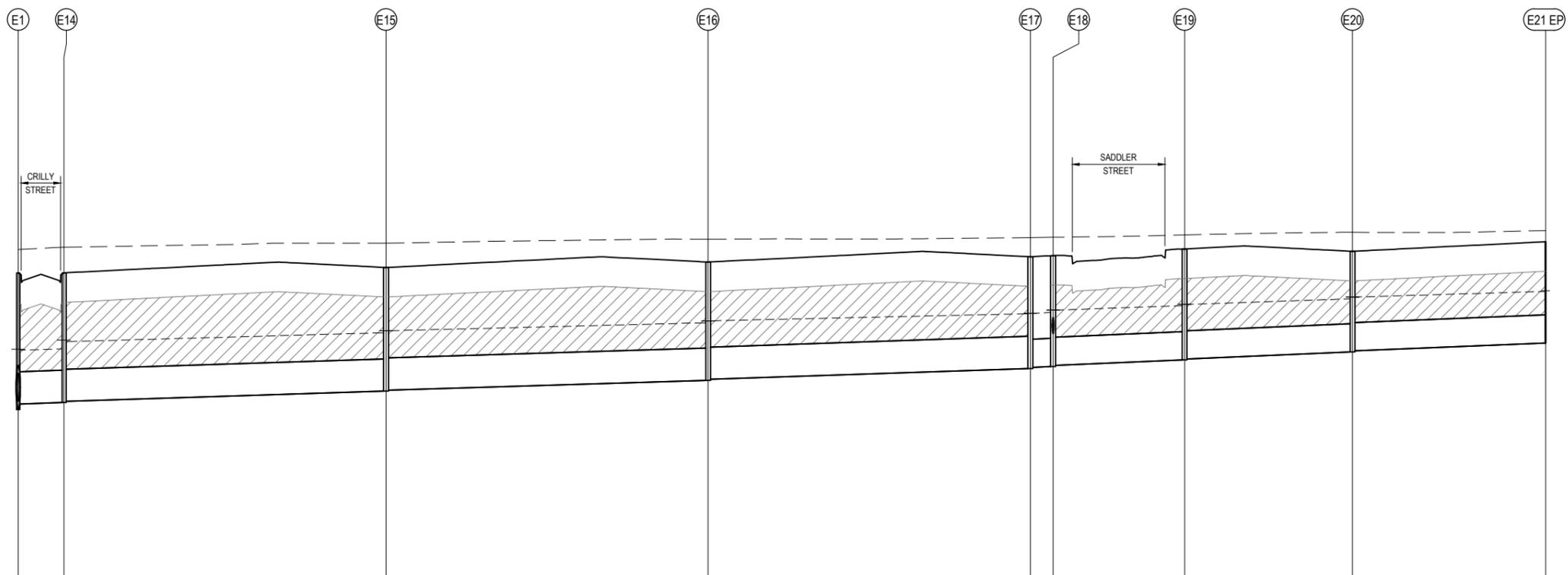


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CHECKED:	KMJ	AUTH. DATE:	19/12/2017	CAD REF:	12332-7-E-124-129

WYNDHAM CITY COUNCIL	SCALE	AS SHOWN
EMERALD PARK	VERSION	0
STAGE 7	SHEET	25 OF 32
DRAINAGE LONGITUDINAL SECTIONS	DRAWING No.	12332-7-E-124
SHEET 1 OF 6		

NOTES:
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 PROVIDE 20mm CLASS 3 FOR BACKFILL BETWEEN THE MELBOURNE WATER AND THE PROPOSED COUNCIL DRAIN



VELOCITY (m/s)	1.456	1.389	1.348	1.398	1.545	1.439	1.448	1.414
PIPE VELOCITY (m/s)	1.291	1.223	1.190	1.254	1.367	1.270	1.281	1.257
PIPE GRADE (1 in _)	283	316	333	300	211	245	241	250
PIPE FLOW (m ³ /s)	0.321	0.323	0.307	0.290	0.265	0.252	0.247	0.235
PIPE CAPACITY (m ³ /s)	0.365	0.346	0.336	0.355	0.296	0.275	0.277	0.272
PIPE SIZE (mm)	600	600	600	600	525	525	525	525
DATUM	42							
DEPTH TO INVERT	2.54	2.44	2.30	2.20	2.08	2.06	2.06	1.89
HYDRAULIC GRADE LINE	48.32	48.47	48.78	48.96	49.13	49.14	49.28	49.55
INVERT LEVEL	47.35	47.45	47.69	47.89	48.11	48.13	48.27	48.42
DESIGN SURFACE	49.89	49.89	49.89	50.09	50.19	50.21	50.33	50.29
EXISTING SURFACE	50.32	50.37	50.44	50.51	50.55	50.55	50.59	50.64
CHAINAGE	0.00	8.50	66.50	128.50	188.50	192.73	217.23	248.50

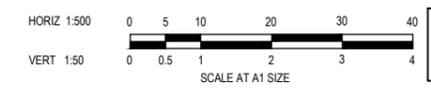
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CONSTRUCTION
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0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ
VER	DATE	REVISION	APPD.

DENOTES 20mm CLASS 2 FCR BACKFILL.

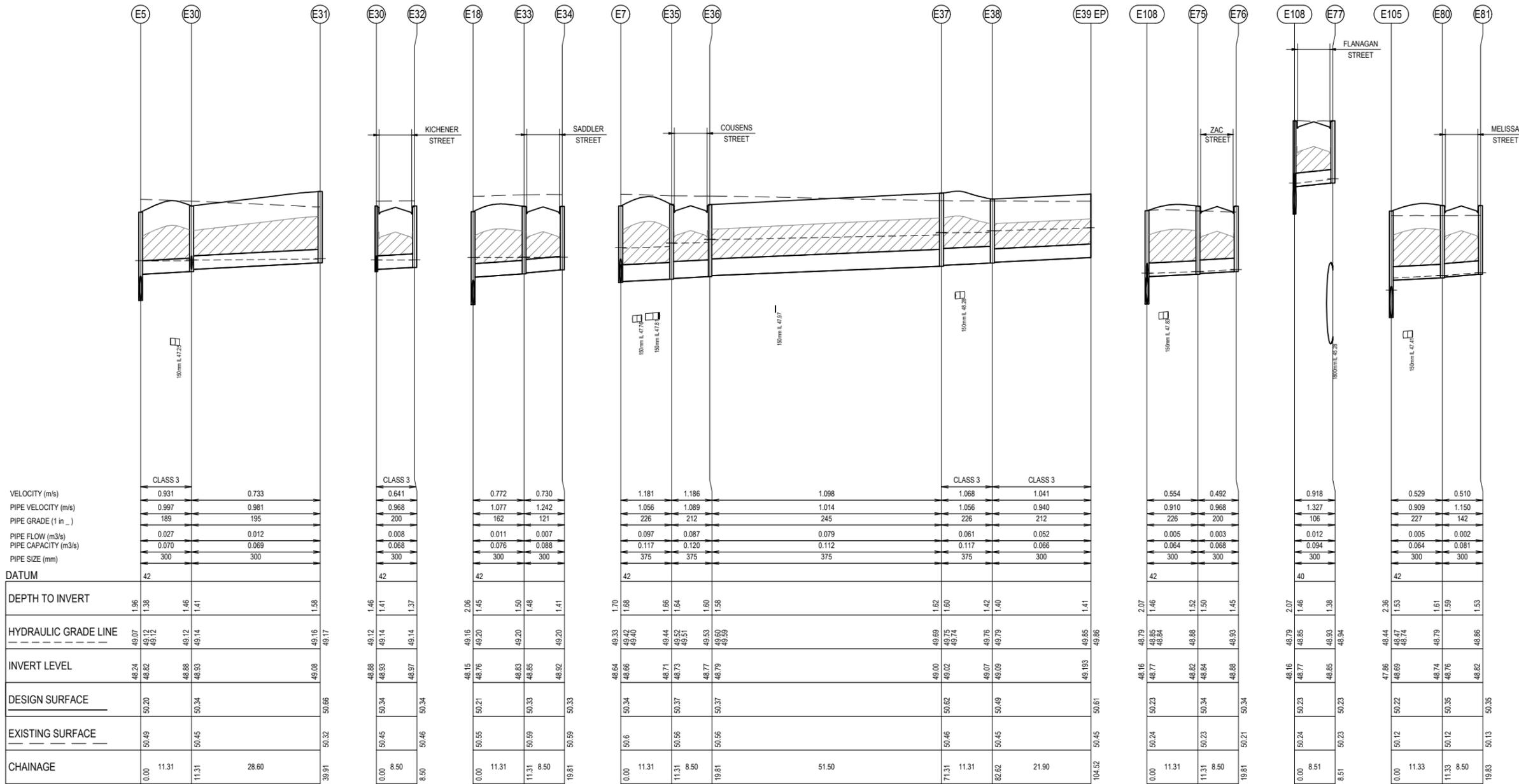
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 Urban Development | Infrastructure
 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9507 2800 | Web: taylors.com.au

DESIGNED:	AKA	AUTHORISED:	JOY	DRAFTED:	KLE
CHECKED:	KMJ	AUTH. DATE:	19/12/2017	CAD REF:	12332-7-E-124-129

Coords: MGA Levels: AHD

WYNDHAM CITY COUNCIL	SCALE	AS SHOWN
EMERALD PARK STAGE 7	VERSION	0
DRAINAGE LONGITUDINAL SECTIONS	SHEET	26 OF 32
SHEET 2 OF 6	DRAWING No.	12332-7-E-125

NOTES:
 PIPE CLASS TO BE CLASS 2 UNLESS OTHERWISE NOTED.
 PROVIDE 20mm CLASS 3 FCR BACKFILL BETWEEN THE MELBOURNE WATER AND THE PROPOSED COUNCIL DRAIN

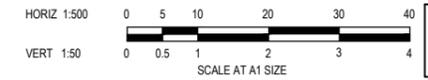


**Planning and Environment Act 1987
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VER	DATE	REVISION	APPD.

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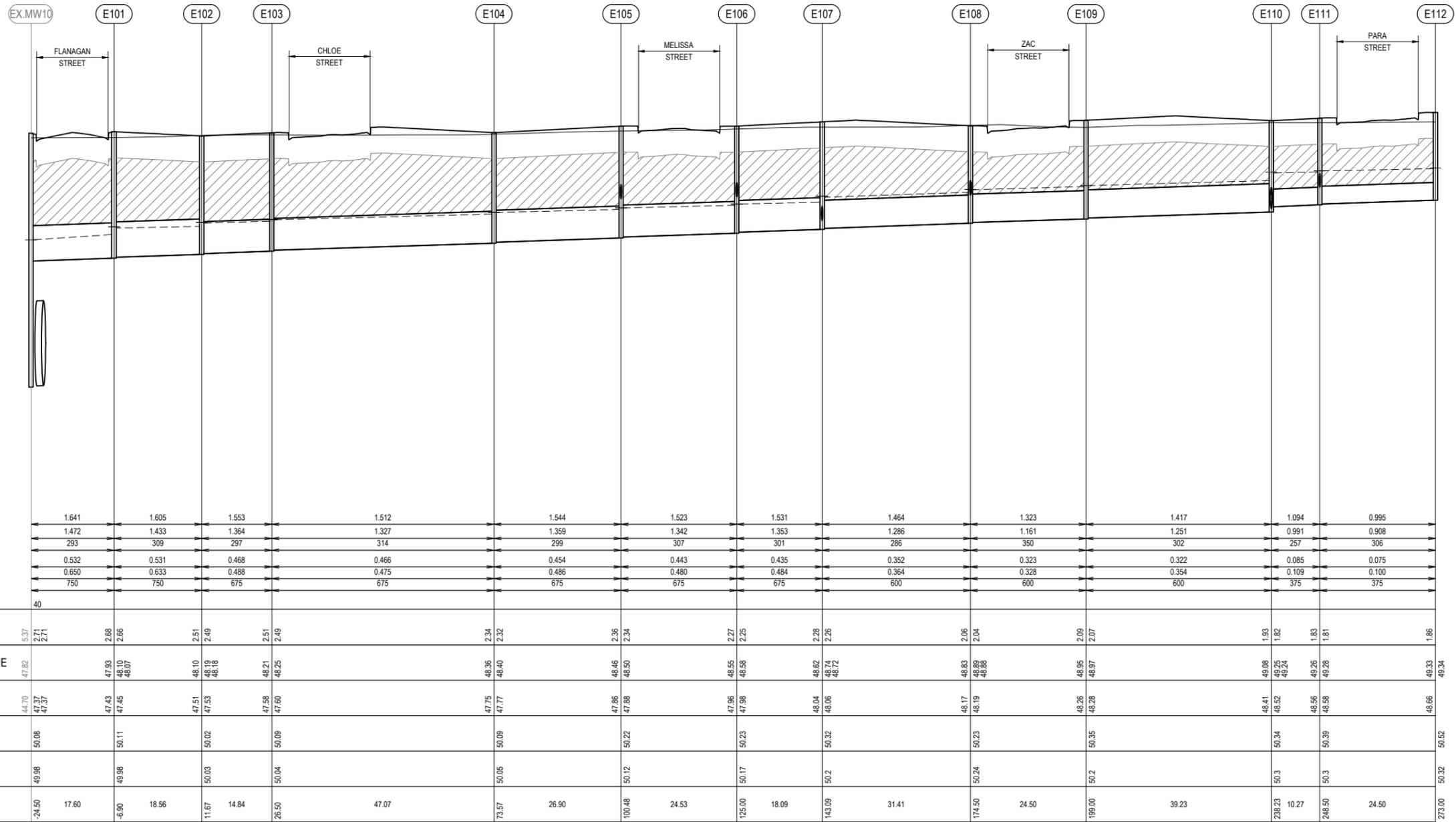


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WYNDHAM CITY COUNCIL
 EMERALD PARK
 STAGE 7
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 3 OF 6

SCALE AS SHOWN
 VERSION 0
 SHEET 27 OF 32
 DRAWING No.
12332-7-E-126

NOTES:
 PIPE CLASS TO BE CLASS 2 UNLESS OTHERWISE NOTED.
 PROVIDE 20mm CLASS 3 FCR BACKFILL BETWEEN THE MELBOURNE WATER AND THE PROPOSED COUNCIL DRAIN



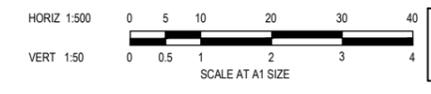
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DENOTES 20mm CLASS 2 FCR BACKFILL.

Coords: MGA Levels: AHD

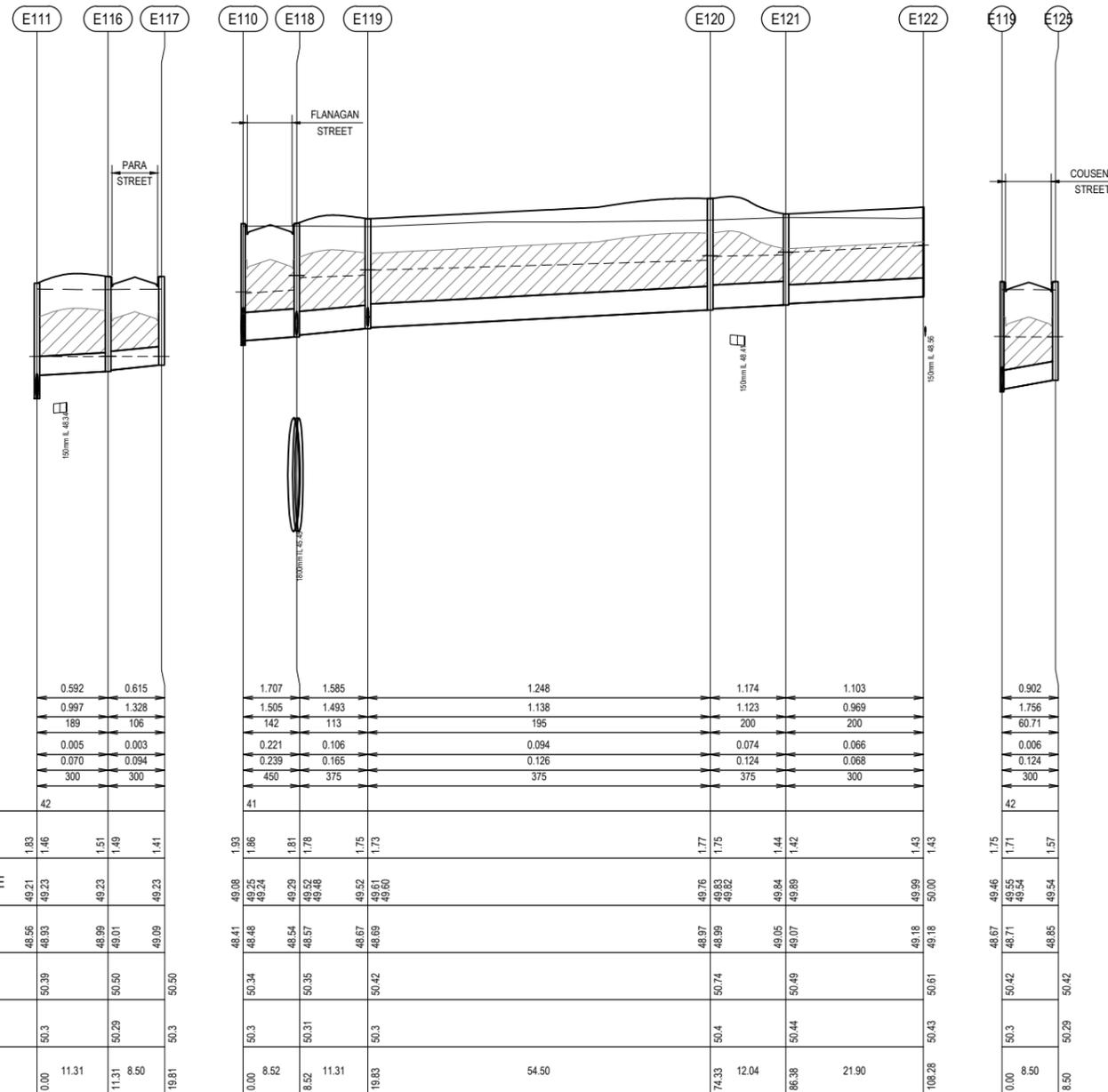
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CHECKED: KMJ	AUTH. DATE: 19/12/2017	CAD REF: 12332-7-E-124-129

WYNDHAM CITY COUNCIL
 EMERALD PARK
 STAGE 7
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 5 OF 6

SCALE	AS SHOWN
VERSION	0
SHEET	29 OF 32
DRAWING No.	12332-7-E-128

NOTES:
 PIPE CLASS TO BE CLASS 2 UNLESS OTHERWISE NOTED.
 PROVIDE 20mm CLASS 3 FCR BACKFILL BETWEEN THE MELBOURNE WATER AND THE PROPOSED COUNCIL DRAIN



**Planning and Environment Act 1987
 Wyndham Planning Scheme**

**Approved Plan As Required
 under Condition 33
 Permit No WYP6863/13
 Date 23/05/2018**

VELOCITY (m/s)	0.592	0.615
PIPE VELOCITY (m/s)	0.997	1.328
PIPE GRADE (1 in _)	189	106
PIPE FLOW (m ³ /s)	0.005	0.003
PIPE CAPACITY (m ³ /s)	0.070	0.094
PIPE SIZE (mm)	300	300
DATUM	42	
DEPTH TO INVERT	1.83 1.46	1.51 1.41
HYDRAULIC GRADE LINE	49.21 49.23	49.23 49.23
INVERT LEVEL	48.56 48.93	48.99 49.01
DESIGN SURFACE	50.39	50.50
EXISTING SURFACE	50.3	50.29
CHAINAGE	0.00 11.31	11.31 8.50

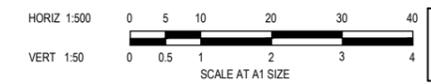
VELOCITY (m/s)	1.707	1.585	1.248	1.174	1.103
PIPE VELOCITY (m/s)	1.505	1.493	1.138	1.123	0.969
PIPE GRADE (1 in _)	142	113	195	200	200
PIPE FLOW (m ³ /s)	0.221	0.106	0.094	0.074	0.066
PIPE CAPACITY (m ³ /s)	0.239	0.165	0.126	0.124	0.068
PIPE SIZE (mm)	450	375	375	375	300
DATUM	41				
DEPTH TO INVERT	1.93 1.86	1.81 1.78	1.75 1.73	1.77 1.75	1.44 1.42
HYDRAULIC GRADE LINE	49.08 49.25 49.24	49.29 49.52 49.46	49.52 49.61 49.60	49.76 49.83 49.82	49.84 49.89 49.89
INVERT LEVEL	48.41 48.48	48.54 48.57	48.67 48.69	48.97 48.99	49.05 49.07
DESIGN SURFACE	50.34	50.35	50.42	50.74	50.49
EXISTING SURFACE	50.3	50.31	50.3	50.4	50.44
CHAINAGE	0.00 8.52	8.52 11.31	11.31 19.83	19.83 74.33	74.33 12.04

VELOCITY (m/s)	0.902
PIPE VELOCITY (m/s)	1.756
PIPE GRADE (1 in _)	60.71
PIPE FLOW (m ³ /s)	0.006
PIPE CAPACITY (m ³ /s)	0.124
PIPE SIZE (mm)	300
DATUM	42
DEPTH TO INVERT	1.75 1.71
HYDRAULIC GRADE LINE	49.46 49.55 49.54
INVERT LEVEL	48.67 48.71
DESIGN SURFACE	50.42
EXISTING SURFACE	50.3
CHAINAGE	0.00 8.50



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CONSTRUCTION
 ISSUED FOR CONSTRUCTION

0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ
VER	DATE	REVISION	APPD.

DENOTES 20mm CLASS 2 FCR BACKFILL.



TAYLORS
 Urban Development | Infrastructure
 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9507 2800 | Web: taylors.com.au

DESIGNED:	AKA	AUTHORISED:	JOY	DRAFTED:	KLE
CHECKED:	KMJ	AUTH. DATE:	19/12/2017	CAD REF:	12332-7-E-124-129

WYNDHAM CITY COUNCIL	SCALE	AS SHOWN
EMERALD PARK STAGE 7	VERSION	0
DRAINAGE LONGITUDINAL SECTIONS	SHEET	30 OF 32
SHEET 6 OF 6	DRAWING No.	12332-7-E-129

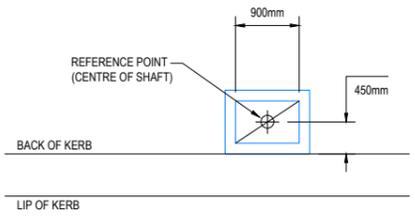
PIT SCHEDULE													
PIT		EASTING	NORTHING	COVER CLASS	INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE				WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	
E9 EP	EP	295481.516	5811094.500				FUT 375	48.868	375	48.868	50.47	1.60	CAP END PIPE FOR FUTURE CONNECTION
E8	GSEP	295503.276	5811092.028	B	600	900	375	48.78	375	48.76	50.36	1.60	CONSTRUCT PIT PER EDM 601
E7	GSEP	295527.609	5811089.264	B	600	900	375	48.66	375	48.64	50.34	1.70	CONSTRUCT PIT PER EDM 601
E6	GSEP-H	295576.854	5811083.671	B	900	900	525	48.44	525	48.42	50.19	1.77	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E5	JP-H	295614.704	5811079.371	B	900	900	525	48.26	525	48.24	50.20	1.96	CONSTRUCT PIT PER EDM 607
E4	GSEP-H	295636.496	5811076.896	B	900	900	525	48.15	525	48.13	50.09	1.96	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E3	GSEP-H	295696.088	5811070.127	B	900	900	525	47.85	525	47.83	49.99	2.16	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E2	JP-H	295730.937	5811066.168	D	900	900	525	47.65	525	47.63	49.91	2.28	CONSTRUCT PIT PER 607
E1	GSEP-H	295755.704	5811063.355	B	1000	1200	300 STUB	48.52					PROVIDE STUB FOR FUTURE CONNECTION
EX 167	GSEP	295777.281	5811053.012		1200	1200	825	47.27	EX 900	47.24	49.96	2.69	BREAK INTO PIT AND CONNECT TO EXISTING STUB
E21 EP	EP	295482.487	5811102.945				FUT 525	48.584	525	48.584	50.47	1.89	CAP END PIPE FOR FUTURE CONNECTION
E20	GSEP-H	295518.197	5811098.888	B	900	900	525	48.44	525	48.42	50.29	1.87	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E19	GSEP-H	295549.268	5811095.359	B	900	900	525	48.29	525	48.27	50.33	2.06	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E18	JP-H	295573.611	5811092.594	B	900	900	525	48.17	525	48.15	50.21	2.06	CONSTRUCT PIT PER EDM 607
E17	GSEP-H	295577.814	5811092.116	B	900	900	525	48.13	600	48.11	50.19	2.08	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E16	GSEP-H	295637.430	5811085.344	B	900	900	600	47.91	600	47.89	50.09	2.20	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E15	GSEP-H	295697.047	5811078.572	B	900	900	600	47.71	600	47.69	49.99	2.30	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E14	GSEP-H	295756.664	5811071.800	B	900	900	600	47.50	600	47.48	49.89	2.41	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E31	JP	295602.626	5811043.908	B	600	900			300	49.08	50.66	1.58	CONSTRUCT PIT PER EDM 605
E30	GSEP	295605.852	5811072.325	B	600	900	300	48.93	300	48.88	50.34	1.46	CONSTRUCT PIT PER EDM 601
E32	GSEP	295597.406	5811073.285	B	600	900			300	48.97	50.34	1.368	CONSTRUCT PIT PER EDM 601
E34	GSEP	295558.120	5811102.405	B	600	900			300	48.92	50.33	1.41	CONSTRUCT PIT PER EDM 601
E33	GSEP	295566.565	5811101.446	B	600	900	300	48.85	300	48.83	50.33	1.50	CONSTRUCT PIT PER EDM 601
E39 EP	EP	295473.899	5811027.431				FUT 300	49.193	300	49.19	50.61	1.41	CAP END PIPE FOR FUTURE CONNECTION
E38	GSEP	295495.659	5811024.960	B	600	900	300	49.09	375	49.07	50.49	1.42	CONSTRUCT PIT PER EDM 601
E37	JP	295504.511	5811032.006	B	600	900	375	49.02	375	49.00	50.63	1.63	CONSTRUCT PIT PER EDM 605
E36	GSEP	295510.322	5811083.177	B	600	900	375	48.79	375	48.77	50.37	1.60	CONSTRUCT PIT PER EDM 601
E35	GSEP	295518.768	5811082.217	B	600	900	375	48.73	375	48.71	50.37	1.66	CONSTRUCT PIT PER EDM 601
E76	GSEP	295532.286	5810923.679	B	600	900			300	48.88	50.34	1.45	CONSTRUCT PIT PER EDM 601
E75	GSEP	295540.731	5810922.719	B	600	900	300	48.84	300	48.82	50.34	1.52	CONSTRUCT PIT PER EDM 601
E77	GSEP	295550.045	5810938.267	B	600	900			300	48.85	50.23	1.38	CONSTRUCT PIT PER EDM 601
E81	GSEP	295605.813	5810915.326	B	600	900			300	48.82	50.35	1.53	CONSTRUCT PIT PER EDM 601
E80	GSEP	295614.259	5810914.367	B	600	900	300	48.76	300	48.74	50.35	1.61	CONSTRUCT PIT PER EDM 601
E89	JP	295601.666	5811035.463	B	600	900			300	49.25	50.66	1.41	CONSTRUCT PIT PER EDM 605
E88	JP	295600.040	5811021.153	B	600	900	300	49.15	300	49.13	50.57	1.44	CONSTRUCT PIT PER EDM 605
E87	GSEP	295607.086	5811012.302	B	600	900	300	49.05	300	49.03	50.33	1.30	CONSTRUCT PIT PER EDM 601
E86	GSEP	295606.128	5811003.856	B	600	900	300	48.98	300	48.96	50.33	1.37	CONSTRUCT PIT PER EDM 601
E85	JP	295597.276	5810996.810	B	600	900	300	48.9	300	48.88	50.45	1.57	CONSTRUCT PIT PER EDM 605
E84	GSEP	295593.516	5810963.727	B	600	900	300	48.71	300	48.69	50.28	1.59	CONSTRUCT PIT PER EDM 601
E83	JP	295591.015	5810941.715	B	600	900	300	48.5	300	48.48	50.35	1.87	CONSTRUCT PIT PER EDM 605
E82	GSEP	295582.562	5810942.625	B	600	900	300	48.41	300	48.39	50.35	1.96	CONSTRUCT PIT PER EDM 601
E90	GSEP	295585.073	5810964.686	B	600	900			300	48.80	50.28	1.49	CONSTRUCT PIT PER EDM 601
E94	GSEP	295600.279	5810932.561	B	600	900			300	48.82	50.22	1.40	CONSTRUCT PIT PER EDM 601
E96 EP	EP	295452.276	5810949.374						375	48.718	50.52	1.80	CAP END PIPE FOR FUTURE CONNECTION
E118	GSEP-H	295486.631	5810945.471	B	900	900	375	48.57	450	48.54	50.35	1.82	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E112	GSEP	295451.713	5810940.882	B	600	900			375	48.66	50.52	1.86	CONSTRUCT PIT PER EDM 601
E111	JP	295476.056	5810938.117	B	600	900	375	48.58	375	48.56	50.40	1.84	CONSTRUCT PIT PER EDM 605
E110	GSEP-H	295486.265	5810936.958	B	900	900	375	48.52	600	48.41	50.34	1.93	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E109	GSEP-H	295525.240	5810932.530	B	900	900	600	48.28	600	48.26	50.35	2.09	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E108	GSEP-H	295549.583	5810929.765	B	900	900	600	48.19	600	48.17	50.23	2.07	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E107	JP-H	295580.795	5810926.220	B	1000	900	600	48.06	675	48.04	50.32	2.28	CONSTRUCT PIT PER 607
E106	GSEP-H	295598.767	5810924.178	B	1000	900	675	47.98	675	47.96	50.23	2.27	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E105	JP-H	295623.137	5810921.410	B	1000	900	675	47.88	675	47.86	50.22	2.36	CONSTRUCT PIT PER EDM 607
E104	GSEP-H	295649.869	5810918.373	B	1000	900	675	47.77	675	47.75	50.09	2.34	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E103	JP-H	295696.637	5810913.061	B	1000	900	675	47.60	675	47.58	50.09	2.51	CONSTRUCT PIT PER 607
E102	GSEP-H	295711.380	5810911.386	B	1100	1000	675	47.53	750	47.51	50.02	2.51	CONSTRUCT PIT PER EDM 601 AND HAUNCH PER 607
E101	JP-H	295729.824	5810909.291	B	1100	1000	750	47.45	750	47.43	50.11	2.68	CONSTRUCT PIT PER EDM 607
EX MW10		295746.122	5810915.944		2400	1400	750	47.37	EX 1950	44.705	50.08	2.71	BREAK INTO PIT AND CONNECT TO EXISTING STUB
E117	GSEP	295458.759	5810932.031	B	600	900			300	49.09	50.50	1.41	CONSTRUCT PIT PER EDM 601
E116	GSEP	295467.204	5810931.071	B	600	900	300	49.01	300	48.99	50.50	1.51	CONSTRUCT PIT PER EDM 601
E122 EP	EP	295472.940	5811018.986				FUT 300	49.180	300	49.180	50.61	1.43	CAP END PIPE FOR FUTURE CONNECTION
E121	GSEP	295494.700	5811016.514	B	600	900	300	49.07	375	49.05	50.49	1.44	CONSTRUCT PIT PER EDM 601
E120	JP	295501.633	5811006.669	B	600	900	375	48.99	375	48.97	50.74	1.77	CONSTRUCT PIT PER EDM 605
E119	GSEP	295495.483	5810952.517	B	600	900	375	48.69	375	48.67	50.42	1.75	CONSTRUCT PIT PER EDM 601
E125	GSEP	295603.929	5810951.557	B	600	900	300	48.71	300	48.69	50.42	1.57	CONSTRUCT PIT PER EDM 601

NOTE:
1. XY SETOUT TO PIT CENTRE
2. SETOUT LEVEL TO PIT COVER LEVEL
3. SOME SETOUT XY OR Z LEVELS HAVE SPECIAL SETOUT DATA. SEE INDIVIDUAL MANHOLE REMARKS

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 33
Permit No WYP6863/13
Date 23/05/2018

LEGEND:
JP JUNCTION PIT
GSEP GRATED SIDE ENTRY PIT



PIT SETOUT POINT
SCALE 1:50



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CONSTRUCTION
ISSUED FOR CONSTRUCTION

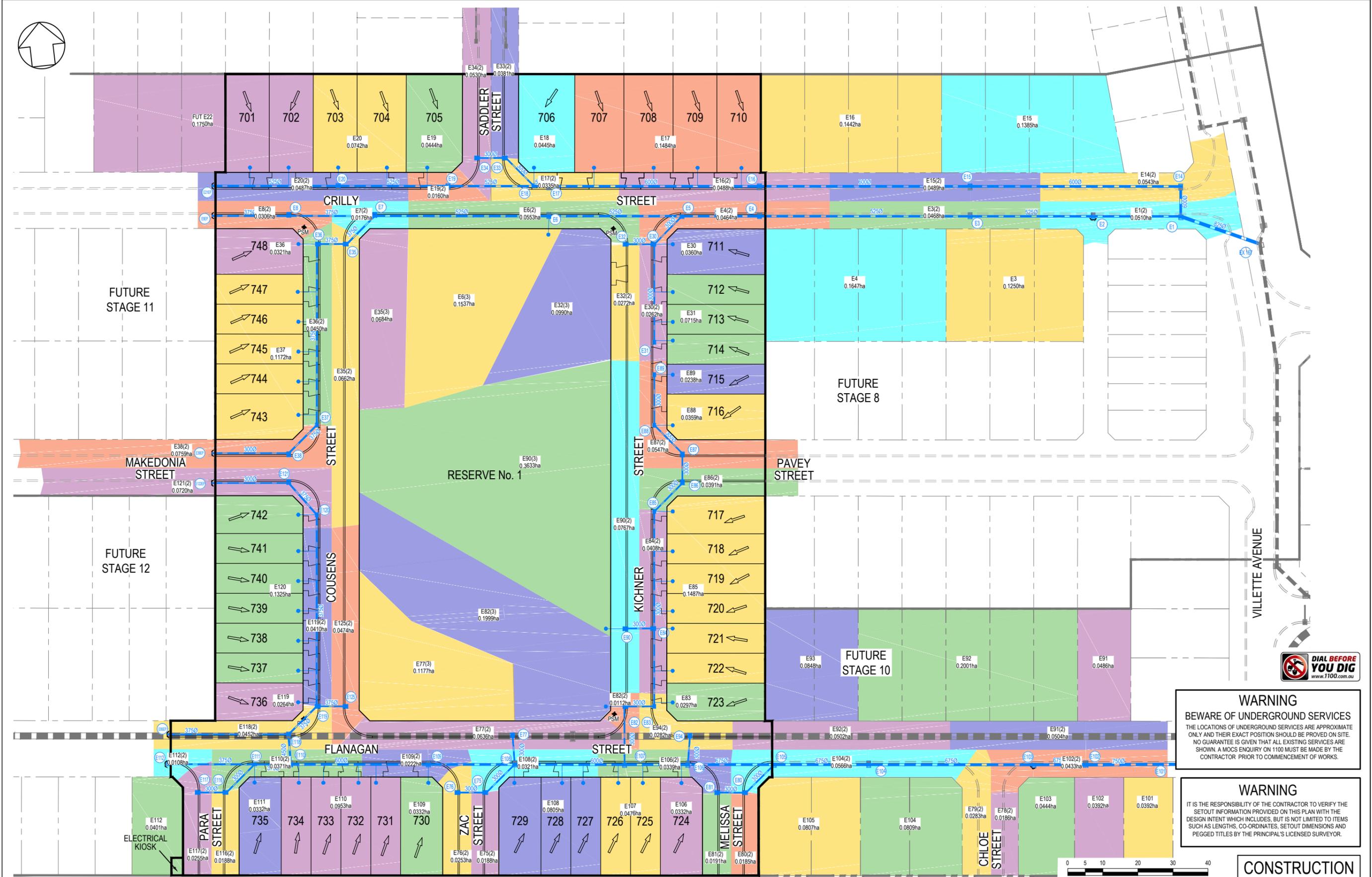
VER	DATE	REVISION	APPD.
0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ



TAYLORS
Urban Development | Infrastructure
8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2800 | Web: taylorso.com.au

DESIGNED: AKA AUTHORIZED: JOY DRAFTED: KLE
CHECKED: KMJ AUTH. DATE: 19/12/2017 CAD REF: 12332-7-E-130

WYNDHAM CITY COUNCIL	SCALE 1:50 @ A1, 1:100 @ A3
EMERALD PARK STAGE 7	VERSION 0
DRAINAGE PIT SCHEDULE	SHEET 31 OF 32
	DRAWING No. 12332-7-E-130



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CONSTRUCTION
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VER	DATE	ISSUED FOR CONSTRUCTION	REVISION	APPD.
0	02/05/2018	ISSUED FOR CONSTRUCTION		KMJ



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DESIGNED: AKA AUTHORIZED: JOY DRAFTED: KLE
 CHECKED: KMJ AUTH. DATE: 19/12/2017 CAD REF: 12332-7-E-800

WYNDHAM CITY COUNCIL
 EMERALD PARK
 STAGE 7
 Q5 CATCHMENT PLAN

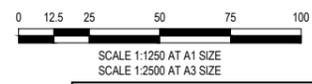
SCALE	1:500 @ A1, 1:1000 @ A3
VERSION	0
SHEET	32 OF 32
DRAWING No.	12332-7-E-800



OVERLAND FLOW INFORMATION

OUTFALL NODE	CA ₅	CA ₁₀₀	I ₅ (mm/hr)	I ₁₀₀ (mm/hr)	Q ₅ (m ³ /s)	Q ₁₀₀ (m ³ /s)	GAP FLOW (m ³ /s)
1	11.853	14.972	43.663	67.647	1.438	2.813	1.376
2	4.334	5.474	45.894	73.077	0.553	1.111	0.559
3	3.729	4.711	48.609	81.336	0.504	1.064	0.561
4	3.424	4.325	49.731	83.136	0.473	0.999	0.526
5	2.550	3.220	53.458	93.550	0.379	0.837	0.458
6	1.206	1.523	64.578	121.415	0.216	0.514	0.297
7	3.940	4.976	52.618	67.647	0.576	0.935	0.359
8	3.464	4.375	55.717	73.028	0.536	0.887	0.351
9	2.711	3.425	60.417	81.528	0.455	0.776	0.321
10	1.746	2.206	66.563	93.241	0.323	0.571	0.248
11	1.319	1.666	69.730	99.520	0.256	0.461	0.205
12	0.779	0.984	75.023	110.334	0.162	0.302	0.139

- NODES
 - SUB CATCHMENT BOUNDARY
 - ROAD ZONE CATEGORY 1
 - RESIDENTIAL LAND USE
 - PUBLIC OPEN SPACE LAND USE
- $f = 0.6 C_u = 0.572 C_{up} = 0.722$
 $f = 0.8 C_u = 0.713 C_{up} = 0.901$
 $f = 0.25 C_u = 0.324 C_{up} = 0.409$



CONSTRUCTION
ISSUED FOR CONSTRUCTION

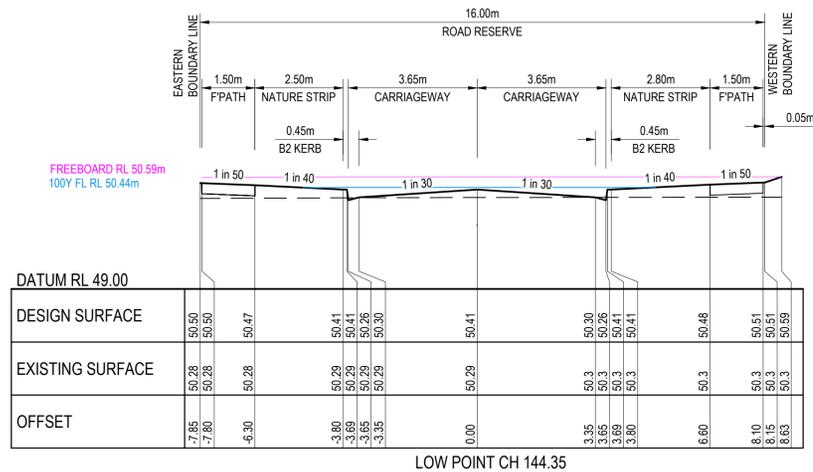
VER	DATE	REVISION	APPD.
0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ

Coords: NGA	Levels: AHD
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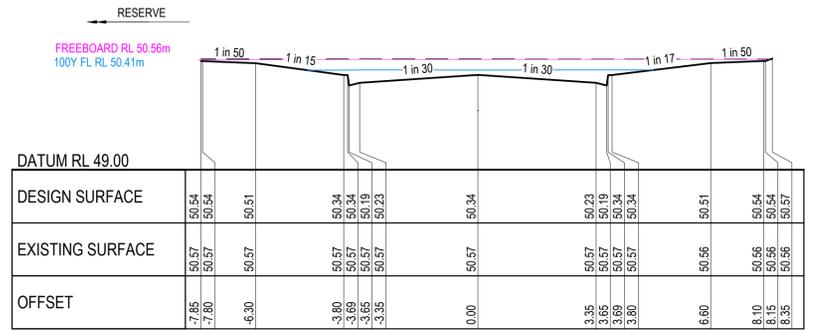
TAYLORS
Urban Development | Infrastructure
8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2800 | Web: taylors.com.au

DESIGNED: AKA	AUTHORISED: JOY	DRAFTED: AKA
CHECKED: NCG	AUTH. DATE: 21/12/2017	CAD REF: Q100 PLAN

WYNDHAM CITY COUNCIL	SCALE AS SHOWN
EMERALD PARK ESTATE - TARNEIT	VERSION 0
Q100 FLOW CATCHMENT PLAN	SHEET 1 OF 4
	DRAWING No.
	Q100 PLAN

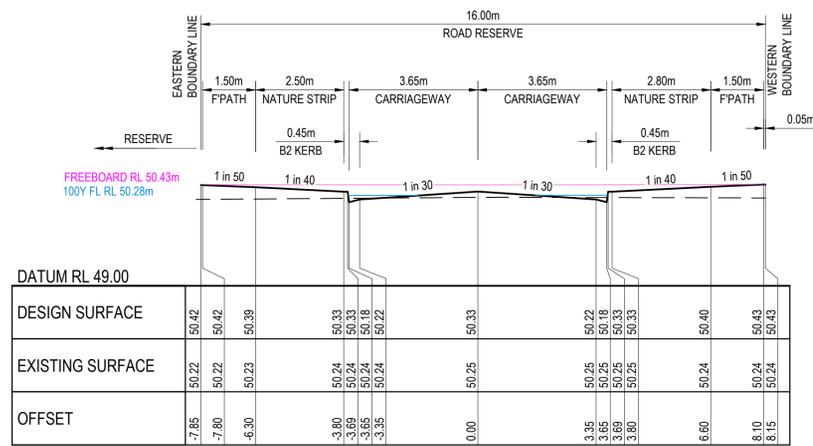


LOW POINT CH 144.35

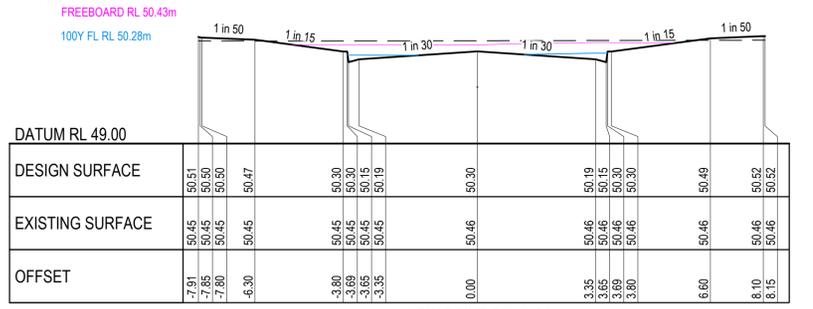


LOW POINT CH 11.65

COUSENS STREET

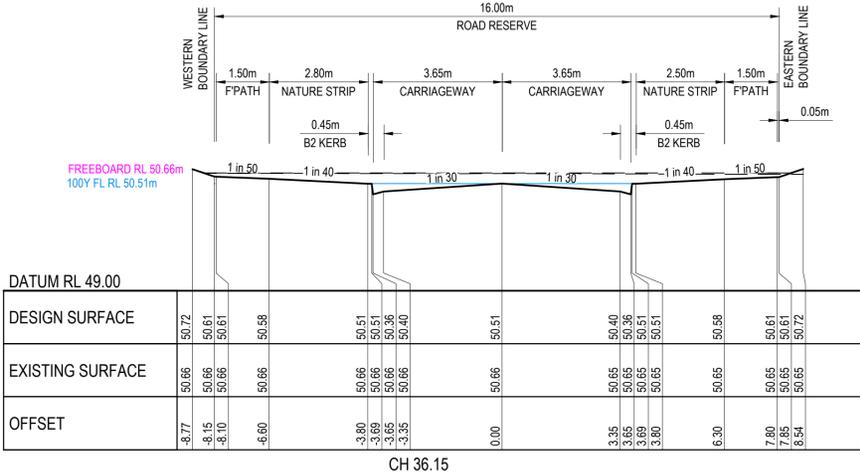


LOW POINT CH 144.35

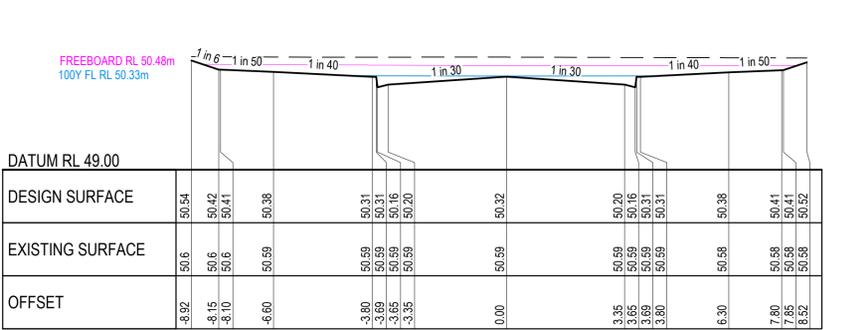


LOW POINT CH 11.65

KICHNER STREET

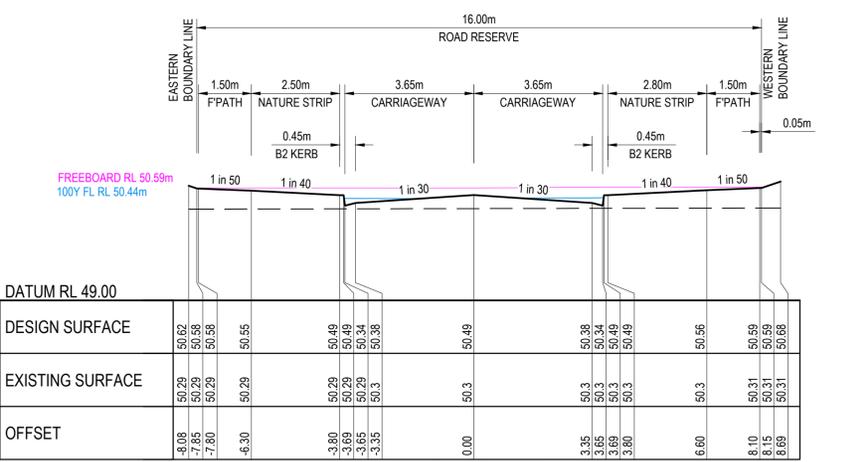


CH 36.15



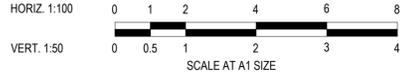
LOW POINT CH 11.65

SADDLER STREET



LOW POINT CH 11.65

PARA STREET

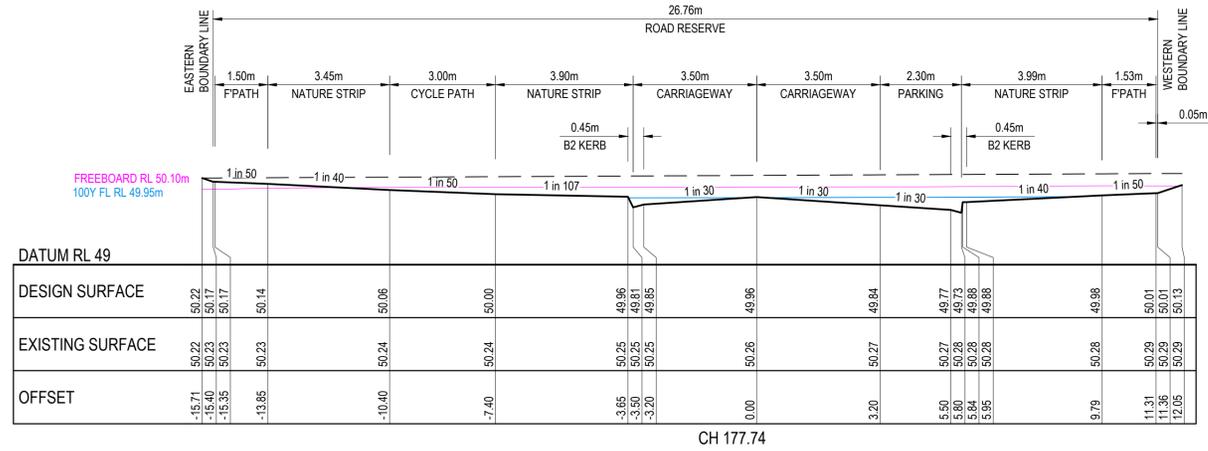


CONSTRUCTION
ISSUED FOR CONSTRUCTION

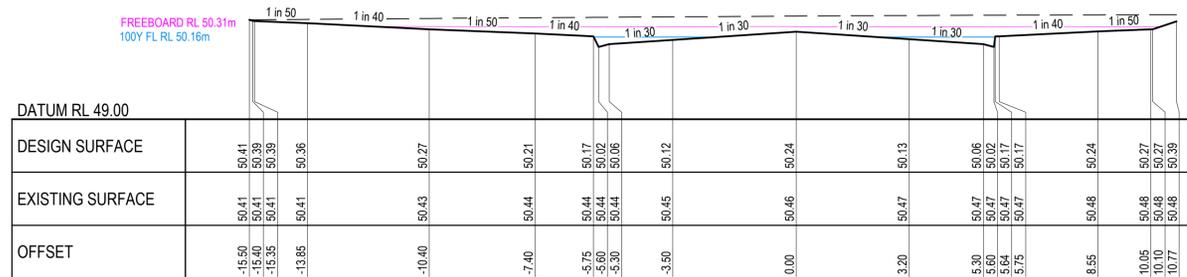
0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ
VER	DATE	REVISION	APPD.

TAYLORS Urban Development Infrastructure 8 / 270 Ferris Road, Notting Hill, Victoria, 3168 Tel: 61 3 9501 2000 Web: taylors.com.au			
DESIGNED:	AKA	AUTHORISED:	JOY
CHECKED:	NCG	AUTH. DATE:	21/12/2017
COORDS:	MGA	LEVELS:	AHD
DRAFTED:	AKA	CAD REF:	Q100 XS

WYNDHAM CITY COUNCIL		SCALE	AS SHOWN
EMERALD PARK ESTATE - TARNEIT		VERSION	0
STAGE 7 & 8		SHEET	2 OF 4
Q100 CRITICAL XS		Q100 XS	
SHEET 1 OF 3			

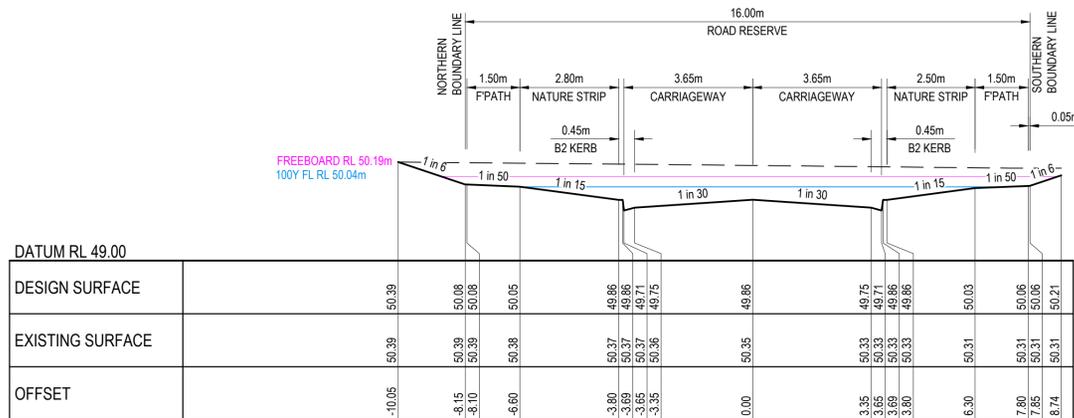


CH 177.74

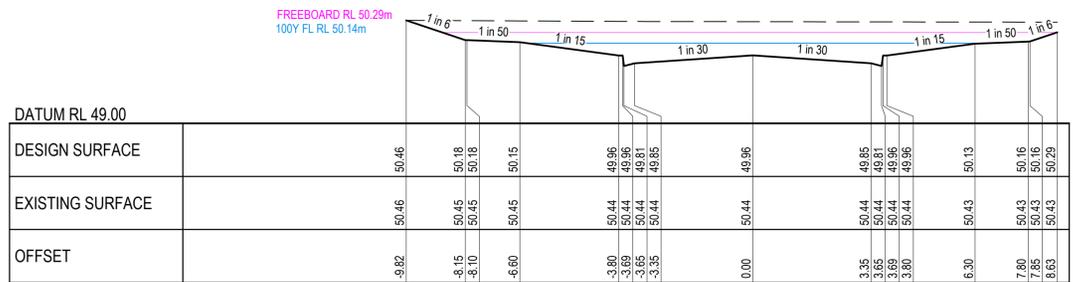


CH 122.49

POLLY STREET N-S

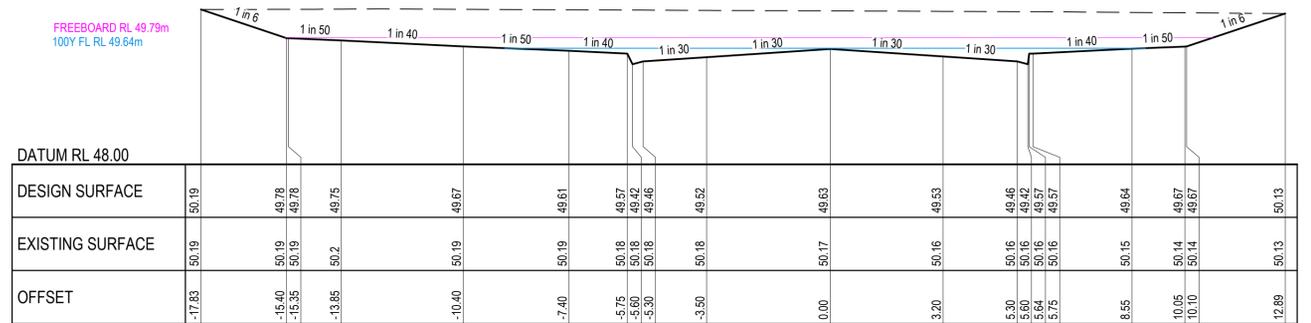


LOW POINT CH 348.28



LOW POINT CH 288.28

CRILLY STREET



LIMIT OF WORKS CH 19.54

POLLY PARADE E-W



CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	02/05/2018	ISSUED FOR CONSTRUCTION	KMJ

TAYLORS
Urban Development | Infrastructure
8 / 270 Ferreries Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2000 | Web: taylors.com.au

DESIGNED: AKA	AUTHORISED: JOY	DRAFTED: AKA
CHECKED: NCG	AUTH. DATE: 21/12/2017	CAD REF: Q100 XS

WYNDHAM CITY COUNCIL
EMERALD PARK ESTATE - TARNEIT
STAGE 7 & 8
Q100 CRITICAL XS
SHEET 3 OF 3

SCALE	AS SHOWN
VERSION	B
SHEET	4 OF 4
DRAWING No.	Q100 XS

12D MODEL - HYDROLOGICAL DESIGN SHEET	
Project:	Emerald Park Stage 7
Drainage Model:	DRAINAGE
Rainfall File:	Z:\12D\ENGINEERING\Rainfall Data\WYNDHAM COUNCIL_12hydro
Tc Method:	Direct
Rainfall Method:	ARR 1977
Runoff C Method:	Direct
Minor 5 Year Storm Event	

Pit Name	Catch ID	Time Tc	Intensity I	Runoff C	Area A	Full CA	Full Sum CA	Full Flow Qa	Partial CA	Partial CA2	Partial Flow Qc	Approach Flow Qd
(-)	(-)	(min)	(mm/hr)	(-)	(ha)	(ha)	(ha)	(L/s)	(ha)	(ha)	(L/s)	(L/s)
E1	2P	6	78.35	0.57	0.051	0.0292	0.0292	6.3	0.0292	0.0292	6.3	6.3
E2												0
E3	1P	5	84.21	0.71	0.125	0.0891	0.1159	25.2	0.0891	0.1114	26.1	26.1
E4	2P	6	78.35	0.57	0.0468	0.0268			0.0223			
E5	1P	5	84.21	0.71	0.1647	0.1174	0.1439	31.3	0.1174	0.1395	32.6	32.6
E6	2P	6	78.35	0.57	0.0464	0.0265			0.0221			0
E7	2P	6	78.35	0.57	0.0553	0.0316	0.0759	13.3	0.0316	0.0582	12.7	13.3
E8	3P	10	63.1	0.29	0.1537	0.0443			0.0266			
E9	2P	6	78.35	0.57	0.0176	0.0101	0.0101	2.2	0.0101	0.0101	2.2	2.2
E10	2P	6	78.35	0.57	0.0306	0.0175	0.0175	3.8	0.0175	0.0175	3.8	3.8
E11	1P	5	84.21	0.71	0.0849	0.0605	0.1006	21.9	0.0605	0.0939	22	22
E12	2P	6	78.35	0.57	0.0701	0.0401			0.0334	0.2009	47	47
E13	1P	5	84.21	0.71	0.2437	0.1738	0.2063	44.9	0.1738	0.2009	47	47
E14	2P	6	78.35	0.57	0.0568	0.0325			0.0271			
E15	1P	5	84.21	0.71	0.0237	0.0169	0.0495	10.8	0.0169	0.0441	10.3	10.8
E16	2P	6	78.35	0.57	0.0571	0.0326			0.0272			
E17	1P	5	84.21	0.71	0.144	0.1027	0.1027	24	0.1027	0.1027	24	24
E18	2P	6	78.35	0.57	0.0543	0.0311	0.0311	6.8	0.0311	0.1221	28.5	28.5
E19	1P	5	84.21	0.71	0.1385	0.0987	0.1267	27.6	0.0987	0.1221	28.5	28.5
E20	2P	6	78.35	0.57	0.0489	0.028			0.0233			
E21	1P	5	84.21	0.71	0.1442	0.1028	0.1307	28.4	0.1028	0.1261	29.5	29.5
E22	2P	6	78.35	0.57	0.0488	0.0279			0.0232			
E23	1P	5	84.21	0.71	0.1484	0.1058	0.125	27.2	0.1058	0.1218	28.5	28.5
E24	2P	6	78.35	0.57	0.0335	0.0192			0.016			
E25	1P	5	84.21	0.71	0.0445	0.0317	0.0317	7.4	0.0317	0.0317	7.4	7.4
E26	2P	6	78.35	0.57	0.0444	0.0316	0.0408	8.9	0.0316	0.0393	9.2	9.2
E27	1P	5	84.21	0.71	0.016	0.0091			0.0076			
E28	2P	6	78.35	0.57	0.0742	0.0529	0.0807	17.6	0.0529	0.0761	17.8	17.8
E29	1P	5	84.21	0.71	0.0487	0.0278			0.0232			
E30	2P	6	78.35	0.57	0.175	0.1248	0.1509	32.8	0.1248	0.1465	34.3	34.3
E31	1P	5	84.21	0.71	0.175	0.1248	0.1509	32.8	0.1248	0.1465	34.3	34.3
E32	2P	6	78.35	0.57	0.0456	0.0261			0.0218			
E33	1P	5	84.21	0.71	0.0285	0.0203	0.0533	11.6	0.0203	0.0478	11.2	11.6
E34	2P	6	78.35	0.57	0.0578	0.033			0.0275			
E35	1P	5	84.21	0.71	0.0763	0.0544	0.0544	12.7	0.0544	0.0544	12.7	12.7
E36	2P	6	78.35	0.57	0.0617	0.0353	0.0353	7.7	0.0353	0.0544	12.7	12.7
E37	1P	5	84.21	0.71	0.1453	0.1036	0.1036	24.2	0.1036	0.0544	12.7	12.7
E38	2P	6	78.35	0.57	0.0433	0.0248	0.0248	5.4	0.0248	0.0544	12.7	12.7
E39	1P	5	84.21	0.71	0.036	0.0257	0.0406	8.8	0.0257	0.0381	8.9	8.9
E40	2P	6	78.35	0.57	0.0262	0.015			0.0125			
E41	1P	5	84.21	0.71	0.0715	0.0509	0.0509	11.9	0.0509	0.0509	11.9	11.9
E42	2P	6	78.35	0.57	0.0272	0.0155	0.044	7.7	0.0155	0.0326	7.1	7.7
E43	3P	10	63.1	0.29	0.099	0.0285			0.0171			
E44	2P	6	78.35	0.57	0.0381	0.0218	0.0218	4.7	0.0218	0.0218	4.7	4.7
E45	2P	6	78.35	0.57	0.053	0.0303	0.0303	6.6	0.0303	0.0218	4.7	4.7
E46	2P	6	78.35	0.57	0.0662	0.0379	0.0576	10.1	0.0379	0.0497	10.8	10.8
E47	3P	10	63.1	0.29	0.0684	0.0197			0.0118			
E48	1P	5	84.21	0.71	0.0321	0.0229	0.0487	10.6	0.0229	0.0444	10.4	10.6
E49	2P	6	78.35	0.57	0.045	0.0258			0.0215			
E50	1P	5	84.21	0.71	0.1172	0.0835	0.0835	19.5	0.0835	0.0835	19.5	19.5
E51	2P	6	78.35	0.57	0.0759	0.0434	0.0434	9.4	0.0434	0.0434	9.4	9.4
E52	1P	5	84.21	0.71	0.1791	0.1277	0.1643	35.8	0.1277	0.1582	37	37
E53	2P	6	78.35	0.57	0.064	0.0366			0.0305			
E54	1P	5	84.21	0.71	0.108	0.077	0.077	18	0.077	0.077	18	18
E55	2P	6	78.35	0.57	0.0251	0.0179	0.0508	11.1	0.0179	0.0454	10.6	11.1
E56	1P	5	84.21	0.71	0.0576	0.0329			0.0274			
E57	2P	6	78.35	0.57	0.073	0.0521	0.0521	12.2	0.0521	0.0521	12.2	12.2
E58												0
E59												0
E60	1P	5	84.21	0.71	0.0795	0.0567	0.0961	20.9	0.0567	0.0896	20.9	20.9
E61	2P	6	78.35	0.57	0.069	0.0395			0.0329			
E62	1P	5	84.21	0.71	0.1602	0.1142	0.1234	21.6	0.1142	0.1188	27.8	27.8
E63	3P	10	63.1	0.29	0.0321	0.0092			0.0046			
E64	2P	6	78.35	0.57	0.0485	0.0266	0.0266	5.8	0.0266	0.0266	5.8	5.8
E65	1P	5	84.21	0.71	0.0387	0.0276	0.076	16.6	0.0276	0.068	15.9	16.6
E66	2P	6	78.35	0.57	0.0847	0.0484			0.0404			
E67	2P	6	78.35	0.57	0.0807	0.0462	0.0462	10.1	0.0462	0.0462	10.1	10.1
E68	1P	5	84.21	0.71	0.1456	0.1038	0.1433	31.2	0.1038	0.1367	32	32
E69	2P	6	78.35	0.57	0.0691	0.0395			0.0329			
E70	1P	5	84.21	0.71	0.0367	0.0261	0.0261	6.1	0.0261	0.0261	6.1	6.1
E71	1P	5	84.21	0.71	0.1418	0.1011	0.1011	23.6	0.1011	0.1011	23.6	23.6
E72												3.9
E73	1P	5	84.21	0.71	0.0232	0.0165	0.0165	3.9	0.0165	0.0165	3.9	3.9
E74	2P	6	78.35	0.57	0.0471	0.0269	0.0269	5.9	0.0269	0.0269	5.9	5.9
E75	2P	6	78.35	0.57	0.0695	0.0398	0.0398	8.7	0.0398	0.0398	8.7	8.7
E76	1P	5	84.21	0.71	0.2536	0.1808	0.1808	42.3	0.1808	0.1808	42.3	42.3
E77	1P	5	84.21	0.71	0.0421	0.03	0.03	7	0.03	0.03	7	7
E78	1P	5	84.21	0.71	0.0364	0.026	0.0725	15.8	0.026	0.0647	15.1	15.8
E79	2P	6	78.35	0.57	0.0813	0.0465			0.0388			
E80	1P	5	84.21	0.71	0.0652	0.0465	0.0465	10.9	0.0465	0.0465	10.9	10.9
E81	2P	6	78.35	0.57	0.0195	0.0112	0.0112	2.4	0.0112	0.0112	2.4	2.4
E82	2P	6	78.35	0.57	0.0423	0.0242	0.0242	5.3	0.0242	0.0242	5.3	5.3
E83	1P	5	84.21	0.71	0.0486	0.0346	0.0722	15.7	0.0346	0.066	15.4	15.7

E64	2P	6	78.35	0.57	0.0657	0.0376			0.0313			
E65	1P	5	84.21	0.71	0.2848	0.2031	0.2031	47.5	0.2031	0.2031	47.5	47.5
E66	1P	5	84.21	0.71	0.05	0.0357	0.0475	10.3	0.0357	0.0455	10.6	10.6
E67	2P	6	78.35	0.57	0.0206	0.0118			0.0098			
E68												0
E69	1P	5	84.21	0.71	0.1284	0.0915	0.1124	24.5	0.0915	0.109	25.5	25.5
E70	2P	6	78.35	0.57	0.0365	0.0209			0.0174			
MW10												
E71	2P	6	78.35	0.57	0.0263	0.015	0.015	3.3	0.015	0.015	3.3	3.3
E72	2P	6	78.35	0.57	0.036	0.0206	0.0206	4.5	0.0206	0.0206	4.5	4.5
E73	1P	5	84.21	0.71	0.2118	0.151	0.1804	39.3	0.151	0.1755	41	41
E74	2P	6	78.35	0.57	0.0514	0.0294			0.0245			
E75	1P	5	84.21	0.71	0.1729	0.1233	0.1489	32.4	0.1233	0.1447	33.8	33.8
E76	2P	6	78.35	0.57	0.0448	0.0256			0.0214			
E77	1P	5	84.21	0.71	0.0444	0.0317	0.047	10.2	0.0317	0.0445	10.4	10.4
E78	2P	6	78.35	0.57	0.0289	0.0154			0.0128			
E79	2P	6	78.35	0.57	0.0188	0.0107	0.0107	2.3	0.0107	0.0107	2.3	2.3
E80	2P	6	78.35	0.57	0.0253	0.0145	0.0145	3.1	0.0145	0.0145	3.1	3.1
E81	2P	6	78.35	0.57	0.0636	0.0364	0.0703	12.3	0.0364	0.0567	12.3	12.3
E82	3P	10	63.1	0.29	0.1177	0.0339			0.0203			
E83	2P	6	78.35	0.57	0.0186	0.0106	0.0106	2.3	0.0106	0.0106	2.3	2.3
E84	2P	6	78.35	0.57	0.0283	0.0162	0.0162	3.5	0.0162	0.0162	3.5	3.5

12D MODEL - HYDRAULIC DESIGN SHEET

Project: Emerald Park Stage 7

Drainage Model: DRAINAGE

Rainfall File: K:\1232\Design\12D\Master Roads and Drainage\EP_Master_Road\project\WYNDHAM COUNCIL 12dhydro

Rainfall Method: ABR 1937

Pipe Cover Limit: 1.1 m

Manholes a Roughness: 0.013 m

Freeboard Limit: 0.3 m

Minor 5 Year Storm Event



Pipe ID	Pipe Type	Pipe Length (m)	Pipe Size (mm)	Pipe Area (sq.m)	Pipe Grade (%)	Pipe Grade (1%)	Pipe Area Tot (mm)	Pipe Area 1 (mm)	Pipe Area Sum CA (mm)	Pipe Area D (mm)	Pipe Area 1 (mm)	Pipe Area Sum CA (mm)	Pipe Area D (mm)	Capacity Flow Cap (L/s)	ODep Ratio	Pipe Wt (kg/m)	Man Depth Wt (kg/m)	Ch Down Wt (kg/m)	Ch Down Wt (kg/m)	Ch Down Wt (kg/m)	US PR Crn RL (m)	Pipe US L (m)	Pipe US L (m)	DP CR RL (m)	Cover Min (m)	Pipe OS Bend (deg)	Pipe OS Drop (deg)	US PR Wt (kg)	US PR Wt (kg)	Pipe Wt (kg)	Phred Loss (kg/m)	WSE Loss (kg/m)	Pipe Thred Loss (kg)	US PR HGL (m)	Pipe US HGL (m)	Pipe OS HGL (m)	DP PR HGL (m)	HGL Crnk (m)	HGL Crnk (m)	Pipe Wt (kg)			
E1 to E2	RCP CLASS 2	23.93	825	0.54	0.33	299.10	14.34	53.26	3.35	481.50	8.90	66.43	3.17	594.60	594.60	830.40	1.09	1.68	1.91	1.50	49.89	47.35	47.27	49.66	1.70	0.00	2.20	2.46	0.06	0.13	0.15	0.25	0.25	0.08	0.02	0.10	48.57	48.55	48.45	48.47	0.38	261.70	1.34
E2 to E3	RCP CLASS 2	24.93	525	0.22	0.52	191.70	11.80	58.49	1.44	234.30	8.29	68.51	1.40	266.00	266.00	310.70	0.86	1.23	1.44	1.44	49.91	47.83	47.50	49.88	1.78	-18.10	0.15	0.25	0.25	0.08	0.02	0.10	48.57	48.55	48.45	48.47	0.38	261.70	1.34				
E3 to E4	RCP CLASS 2	35.07	525	0.22	0.51	194.90	11.51	59.17	1.43	235.50	8.20	69.57	1.39	268.20	268.20	320.20	0.87	1.24	1.42	1.42	49.99	47.83	47.65	49.91	1.64	0.00	0.02	0.00	0.00	0.08	0.05	0.14	48.75	48.70	48.57	48.57	0.39	257.30	1.24				
E4 to E5	RCP CLASS 2	58.97	525	0.22	0.47	214.20	11.01	60.40	1.33	233.90	7.50	71.46	1.27	252.80	252.80	294.60	0.86	1.27	1.36	1.36	50.09	48.18	47.85	49.99	1.44	0.00	0.02	0.74	0.07	0.21	0.05	0.21	49.01	48.96	48.75	48.75	0.34	230.10	1.08				
E5 to E6	RCP CLASS 2	21.90	525	0.22	0.41	243.70	10.82	60.97	1.17	188.30	7.38	71.97	1.13	226.40	226.40	275.80	0.93	1.05	1.42	1.63	50.20	48.24	48.15	50.09	1.42	0.00	0.02	0.85	0.98	0.08	0.05	0.05	0.06	49.12	49.07	49.01	49.01	0.28	381.10	1.08			
E6 to E7	RCP CLASS 2	38.09	525	0.22	0.42	238.10	10.51	61.70	1.04	177.70	7.08	73.30	1.00	204.60	204.60	278.00	0.73	0.95	1.57	1.67	50.19	48.42	48.26	50.20	1.23	0.00	0.02	0.50	0.50	0.02	0.02	0.09	49.23	49.12	49.12	49.12	0.23	442.20	0.96				
E7 to E8	RCP CLASS 2	49.99	525	0.22	0.40	247.80	10.29	62.83	0.96	167.80	6.65	75.14	0.94	196.60	196.60	273.30	0.72	0.91	1.37	1.50	50.34	48.64	48.44	50.19	1.18	0.00	0.02	1.74	2.11	0.04	0.07	0.10	49.42	49.33	49.23	49.23	0.21	478.90	0.92				
E8 to E9	RCP CLASS 2	24.49	525	0.22	0.41	246.50	12.50	66.89	1.29	203.00	7.40	71.63	1.27	251.80	251.80	274.80	0.62	1.16	1.70	1.70	50.33	48.27	48.17	50.21	1.58	0.00	0.02	0.34	0.34	0.07	0.09	0.09	49.30	49.29	49.23	49.23	0.34	202.00	1.03				
E9 to E10	RCP CLASS 2	21.90	375	0.11	0.40	250.00	6.90	74.01	0.49	94.40	6.35	76.56	0.45	96.50	96.50	113.30	0.87	1.13	1.37	1.37	50.47	48.87	48.78	50.38	1.21	0.00	0.02	0.20	0.20	0.04	0.01	0.07	49.57	49.56	49.50	49.50	0.30	330.40	0.90				
E10 to E11	RCP CLASS 2	8.50	600	0.28	0.35	283.30	14.27	63.39	1.78	264.40	9.00	66.11	1.75	320.70	320.70	364.90	0.88	1.13	1.76	1.76	50.29	47.48	47.45	49.89	1.63	79.90	0.10	2.04	2.49	0.07	0.13	0.16	0.02	48.64	48.49	48.45	48.47	0.27	368.80	1.25			
E11 to E12	RCP CLASS 2	60.00	600	0.28	0.32	315.80	13.77	64.33	1.73	294.40	8.40	67.91	1.71	323.00	323.00	345.70	0.93	1.19	1.70	1.70	50.22	47.89	47.50	49.89	1.70	-9.00	0.02	0.54	0.54	0.07	0.14	0.17	48.61	48.76	48.61	48.64	0.26	381.70	1.09				
E12 to E13	RCP CLASS 2	60.00	600	0.28	0.36	333.30	13.27	65.31	1.63	249.70	8.00	69.54	1.59	307.60	307.60	338.50	0.91	1.19	1.72	1.72	50.00	47.89	47.71	49.89	1.69	0.00	0.02	0.58	0.58	0.06	0.10	0.13	49.62	49.60	49.61	49.61	0.25	400.40	1.09				
E13 to E14	RCP CLASS 2	60.00	600	0.28	0.33	300.00	12.77	66.34	1.49	233.90	7.50	71.48	1.46	289.50	289.50	354.70	0.82	1.02	1.69	1.69	50.19	48.11	47.81	50.09	1.48	0.00	0.02	0.16	0.16	0.05	0.01	0.13	49.14	49.13	49.00	49.00	0.22	480.10	1.05				
E14 to E15	RCP CLASS 2	4.23	525	0.22	0.47	211.50	12.73	58.42	1.37	214.60	7.67	70.63	1.35	265.50	265.50	299.90	0.90	1.23	1.55	1.55	50.21	48.15	48.15	50.19	1.53	0.00	0.02	0.53	0.57	0.08	0.04	0.04	0.02	49.20	49.19	49.14	49.14	0.38	262.70	1.01			
E15 to E16	RCP CLASS 2	24.49	525	0.22	0.41	246.50	12.50	66.89	1.29	203.00	7.40	71.63	1.27	251.80	251.80	274.80	0.62	1.16	1.70	1.70	50.33	48.27	48.17	50.21	1.58	0.00	0.02	0.34	0.34	0.07	0.09	0.09	49.30	49.29	49.23	49.23	0.34	202.00	1.03				
E16 to E17	RCP CLASS 2	31.27	525	0.22	0.42	240.50	12.27	67.42	1.24	189.60	7.20	72.71	1.22	247.30	247.30	277.40	0.99	1.14	1.69	1.69	50.29	48.42	48.29	50.33	1.33	0.00	0.02	0.48	0.48	0.07	0.10	0.10	49.44	49.41	49.30	49.30	0.33	302.00	0.95				
E17 to E18	RCP CLASS 2	35.94	525	0.22	0.40	250.00	11.87	68.09	1.16	187.90	6.90	74.00	1.14	235.10	235.10	272.10	0.78	1.09	1.68	1.68	50.47	48.58	48.44	50.29	1.33	0.00	0.02	0.16	0.16	0.04	0.01	0.11	49.68	49.55	49.44	49.44	0.30	334.80	0.91				
E18 to E19	RCP CLASS 2	11.31	300	0.07	0.53	188.80	10.07	62.90	0.14	23.70	5.24	82.69	0.12	27.10	27.10	70.50	0.38	0.38	0.96	0.96	50.34	48.88	48.62	50.20	1.10	-45.00	0.98	1.91	2.48	0.01	0.01	0.01	0.01	0.01	0.01	49.14	49.12	49.12	49.12	0.05	204.70	1.20	
E19 to E20	RCP CLASS 2	28.69	300	0.07	0.51	194.70	8.00	64.21	0.35	11.90	5.00	64.21	0.35	11.90	11.90	69.20	0.17	0.17	0.78	0.78	50.89	49.38	49.03	50.34	1.12	-45.00	0.98	7.09	7.09	0.09	0.09	0.09	0.09	0.09	0.09	49.14	49.14	49.14	49.14	0.08	1189.70	1.49	
E20 to E21	RCP CLASS 2	8.50	300	0.07	0.50	200.00	10.00	63.10	0.04	7.70	6.00	78.30	0.03	7.10	7.70	77.00	0.93	0.93	0.67	0.67	50.34	48.97	48.63	50.34	0.99	45.00	0.95	7.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	49.14	49.14	49.14	49.14	0.00	26187.10	1.20	
E21 to E22	RCP CLASS 2	11.31	300	0.07	0.62	161.80	6.07	77.98	0.09	11.30	8.00	78.30	0.05	11.30	11.30	76.00	0.19	0.16	0.78	0.78	50.21	48.77	48.73	50.21	1.17	45.00	0.61	1.87	2.50	0.00	0.00	0.00	0.00	0.00	0.00	49.20	49.20	49.20	49.20	0.01	7337.30	1.13	
E22 to E23	RCP CLASS 2	8.50	300	0.07	0.62	121.40	6.00	78.35	0.03	6.60	6.00	78.35	0.03	6.60	6.60	87.80	0.08	0.09	0.65	0.65	50.33	48.62	48.65	50.33	0.95	-45.00	0.02	7.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	49.20	49.20	49.20	49.20	0.00	14386.10	1.13	
E23 to E24	RCP CLASS 2	11.31	375	0.11	0.44	226.10	10.00	63.10	0.47	63.20	6.66	75.58	0.46	67.30	67.30	116.60	0.83	1.06	1.36	1.36	50.37	48.71	48.66	50.34	1.31	-45.00	0.02	1.60	1.67	0.04	0.06	0.06	0.03	49.42	49.41	49.42	49.42	0.31	325.10	0.86			
E24 to E25	RCP CLASS 2	8.50	375	0.11	0.47	212.50	7.16	72.89	0.42	84.40	6.49	75.91	0.41	87.60	87.60	120.30	0.73	0.79	1.32	1.32	50.37	48.77	48.73	50.37	1.05	45.00	0.02	1.91	2.25	0.03	0.06	0.07	0.02	49.60	49.53	49.51	49.52	0.25	496.50	0.77			
E25 to E26	RCP CLASS 2	51.50	375	0.11	0.41	245.20	6.78	74.78	0.37	78.50	6.08	78.05	0.36	78.90	78.90	110.30	0.70	0.71	1.10	1.10	50.82	49.00	48.79	50.37	1.21	-99.00	0.02	1.83	2.06	0.03	0.05	0.05	0.10	49.75	49.69	49.59	49.60	0.20	484.30	0.88			
E26 to E27	RCP CLASS 2	11.31	375	0.11	0.44	226.30	6.64	75.21	0.29	59.50	5.96	78.94	0.29	61.20	61.20	116.80	0.52	0.55	1.07	1.07	50.49	49.07	49.02	50.62	1.06	45.00	0.02	2.10	2.12	0.02	0.03	0.03	0.01	49.79	49.76	49.74	49.75	0.12	622.40	0.71			
E27 to E28	RCP CLASS 2	21.90	300	0.07	0.47	212.10	6.45	76.07	0.24	61.00	5.78	78.52	0.24	62.40	62.40	66.40	0.78	0.74	1.20	1.20	50.61	49.19	49.09	50.49	1.11	-45.00	0.02	0.20	0.20	0.00	0.00	0.00	0.00	49.59	49.63	49.79	49.79	0.29	340.80	0.75			
E28 to E29	RCP CLASS 2	11.31	300	0.07	0.44	226.30	6.07	77.98	0.03	5.00	6.00	78.35	0.03	5.40	5.00	68.30	0.08	0.08	0.61	0.61	50.34	48.82	48.77	50.23	1.18	-45.00	0.60	1.87	2.50	0.00	0.00	0.01	48.89	48.88	48.88	48.88	0.04	2474.60	1.45				
E29 to E30	RCP CLASS 2	8.50	300	0.07	0.50	200.00	6.00	78.35	0.01	3.10	3.10	78.35	0.01	3.10	3.10	68.40	0.05	0.04	0.49	0.49	50.34	48.88	48.84	50.34	0.99	45.00	0.02	7.00	7.00														