

MELWAYS: 388 C 10

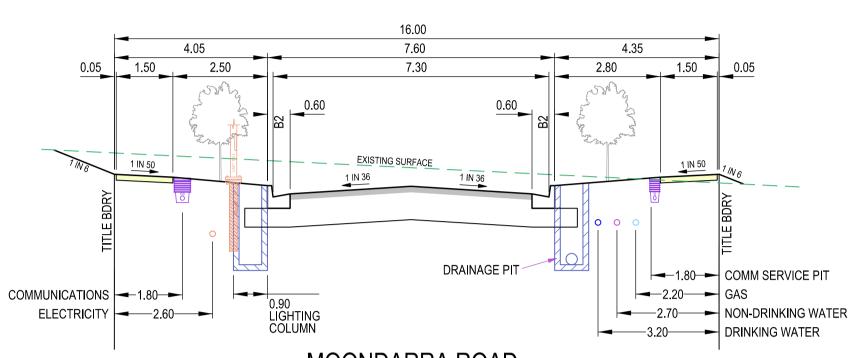
STREET

418

448m²

#### SERVICES OFFSETS AND LOCATIONS

CERTICES OF THE EDUPATIONS											
Location	Gas	Water		Communications		Electricity		вок	Road	Joint	Street
Location	Gas	NDW	DW	Cables	Pits	Cables	Poles	DOIN	Width	Trenching	Classification
MOONDARRA ROAD	2.20W	2.70W	3.20W	1.80E	1.80E/W	2.60E	1.00 BOK	4.35W/4.05E	16	G/W,FTTH/E	LEVEL 1
MOONDARRA ROAD (RESERVE)	1.70E	2.10E	2.60E							G/W,FTTH/E	
KOOYOORA LANE (8m)							1.00 BOK		8	G/W,FTTH/E	ACCESS LANE
KOOYOORA LANE (12m)	1.70S	2.10S	2.60S	3.20S			1.00 BOK		8	G/W,FTTH/E	ACCESS LANE



## MOONDARRA ROAD ACCESS STREET TYPE 1 3.95 1 IN 33 EXISTING SURFACE 1 IN 33 TGSI's TO BE IN ACCORDANCE WITH CITY OF WHITTLESEA SD 320 442 DRAINAGE PIT KOOYOORA LANE LOTS 3709-3714 ACCESS LANE SUBSTATION PURPOSES KOOYOORA LANE 3708 441 3603 DRAINAGE PIT ELECTRICITY KOOYOORA LANE LOTS 3724-3730 & 3715-1717 ACCESS LANE CROSSOVERS TO LOTS 3709-3714 TO BE CONSTRUCTED TO EDCM STD DWG 501

KOOYOORA LANE

NEWRY STREET

# **AS CONSTRUCTED**

### SHEET INDEX

SHT No.	VER	DESCRIPTION
1	C	DETAIL PLAN, SHEET INDEX, NOTES, LOCALITY
2	Α	INTERSECTION DETAILS
3	Α	MOONDARRA ROAD LONG AND CROSS SECTIONS
4	В	KOOYOORA LANE LONG AND CROSS SECTIONS
5	Α	DRAINAGE LONG SECIONS + PIT SCHEDULE
6	Α	SIGNAGE AND LINEMARKING PLAN

### **NOTES**

- 1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PLANS AND CURRENT CITY OF WHITTLESEA SPECIFICATIONS AND STANDARD DRAWINGS APPROVED BY COUNCIL AND TO THE SATISFACTION OF THE ENGINEER.
- 2. COUNCIL TO BE NOTIFIED 2 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- 3. DRAINAGE AND PITS TO BE SETOUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. REFER EDCM601-608 FOR FURTHER DETAILS.
- 4. ALL PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED AND SHALL BE RRJ UP TO AND INCLUDING 750mm DIAMETER. PIPES ABOVE THIS SIZE MUST BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS. ALL DRAINS THAT CROSS UNDER ROAD PAVEMENTS ARE TO BE CLASS 4 R.C.P.
- 5. JOINTING FOR CURVED PIPE ALIGNMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS (RRJ'S FOR MINOR DEFLECTIONS OR COMPLETE R.C. BANDAGES)
- 6. PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS
- 7. LOTS DENOTED THUS 416H ARE TO BE PROVIDED WITH A 100mm HOUSE DRAIN PLACED 5.5m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN. HOUSE DRAINS TO BE CONNECTED TO STREET DRAINAGE WITH 27A & CAP, CLEAR OF ANY PAVING. IF CONNECTION IS WITHIN PAVING A PIT MUST BE USED.
- 8. APPROVED GRANULAR BACKFILL TO BE PROVIDED WHERE PIPE TRENCHES ENCROACH UNDER ROADWAY DUE TO DEEP EXCAVATIONS IN ROCK.
- 9. SHALLOW CUT OFF DRAINS ARE TO BE PROVIDED ON SUBDIVISION BOUNDARY WHERE
- 10. PRIOR TO COMMENCEMENT OF WORKS ON SITE. THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004. INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- 11. AGRICULTURAL PIPE DRAINS TO PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER (REFER TO STD DRG EDCM202).
- 12. ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, KERB & CHANNEL, PARKING BAYS DRIVEWAYS, FOOTPATHS AND BEHIND KERB & CHANNEL SHALL BE BACKFILLED WITH
- 13. BATTERS SHALL BE 1 IN 6 FOR CUT & FILL UNLESS OTHERWISE SHOWN. BATTERS EXCEEDING 1 IN 6 MUST BE STABILISED AS PER COUNCIL REQUIREMENTS.
- 14. ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER.
- 15. LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER.
- 16. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF RUBBISH AND SPOIL FROM SITE.
- 17. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO COMMENCEMENT OF WORKS.
- 18. ALL MATERIAL SURROUNDING SERVICE AUTHORITY PITS LOCATED IN FOOTPATHS MUST BE ADEQUATELY COMPACTED IN 150mm LAYERS AND TESTED TO THE SATISFACTION OF THE CITY OF WHITTLESEA, PRIOR TO THE CONSTRUCTION OF FOOTPATH BAYS ADJACENT TO THESE PITS.
- 19. THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETER MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.
- 20. ALL GAS AND WATER CONDUITS FOR RESIDENTIAL LOTS TO BE PVC CLASS 12, 50mm DIAMETER.
- \*\*\*\* DUAL WATER MAINS \*\*\*\*]

28.07.22 KIOSK LOCATION UPDATED TO MATCH POS

16.06.21 ISSUE FOR APPROVAL

DATE

CONCRETE AREAS IN RESERVE UPDATED

REMARKS

- 20. ALL GAS AND WATER CONDUITS FOR RESIDENTIAL LOTS TO BE PVC CLASS 12, 50mm DIAMETER & 100mm DIAMETER RESPECTIVELY
- 21. TELSTRA/NBN Co TO BE NOTIFIED 7 DAYS PRIOR TO CONCRETE BEING PLACED.
- 22. CONDUITS ARE TO BE EXTENDED 450mm BEHIND FACE OF KERB AND TO BE REFERENCED
- ON FACE OF KERB. 23. ALL STREET SIGNS TO BE CONSTRUCTED AND ERECTED TO CURRENT CITY OF WHITTLESEA
- STANDARDS. STREET NAME PLATES TO BE IN ACCORDANCE WITH STANDARD DRAWING SD825, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.
- WITH AS1742.2. ALL LINE MARKING IS TO BE LONG LIFE ROAD MARKING. WITH LONGITUDINAL LINES IN THERMOPLASTIC & TRANSVERSE MARKINGS IN COLD APPLIED.

24. TRAFFIC CONTROL SIGNS, MARKINGS & DELINEATORS TO BE INSTALLED IN ACCORDANCE

- 25. ALL DRIVEWAYS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM501 & 502 AND ARE TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN.
- 26. ALL DRIVEWAY RAMPS INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 6.
- 27. ALL PEDESTRIAN CROSSINGS ARE TO BE CONSTRUCTED GENERALLY IN ACCORDANCE WITH EDCM403, ALL PRAM CROSSING SPLAYS MUST BE 600mm WIDE AND NO GREATER.
- 28. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. FILLING TO BE CLEAN CLAY COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1289.5.2.1-2003. CONTROL TESTING TO COMPLY WITH AS3798-2007 APPENDIX B, LEVEL 1.
- 29. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION No. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
- 30. FILL REQUIRED UNDER ROADWAY KERB AND CHANNEL AND FOOTPATH TO BE UNDERTAKEN AS PER COUNCIL'S CONSTRUCTION SPECIFICATION FOR ROAD & DRAINAGE WORKS 20.6 (TYPE A MATERIAL AS PER VICROADS STANDARD SPECIFICATION 204) AND COMPACTED

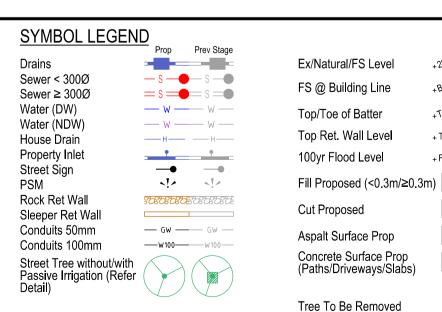
- 31. PAVEMENT DEPTH MAY NOT BE ALTERED WITHOUT WRITTEN APPROVAL FROM CITY OF WHITTLESEA DEVELOPMENT ENGINEERING UNIT PRIOR TO THE COMMENCEMENT OF WORKS. ADDITIONAL COSTS WILL NOT BE CONSIDERED POST TENDER.
- 32. THE CONTRACTOR IS TO ORGANISE AND PAY FOR TESTING OF PAVEMENT BASE COURSE MATERIAL AND FINAL LAYER OF CRUSHED ROCK. A COPY OF RESULTS IS TO BE FORWARDED TO THE DIRECTOR OF ENGINEERING OR HIS REPRESENTATIVE. THE RESULTS MUST MEET THE REQUIREMENTS OF THE CITY OF WHITTLESEA SPECIFICATION BEFORE ANY FURTHER WORKS ARE REQUIRED.
- 33. THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBM,s AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.
- 34. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS THE SMP SHALL BE APPROVED BY CITY OF WHITTLESEA DEVELOPMENT ENGINEERING UNIT PRIOR TO THE COMMENCEMENT OF WORKS.
- 35. ALL FOOTPATHS IN ROADS TO BE OFFSET 50mm FROM PROPERTY BOUNDARY. FOOTPATHS CONSTRUCTED ABOVE EXISTING LEVEL TO BE CONSTRUCTED ON APPROVED FILL (TO AS-3798) OF F.C.R. INTO NATURAL GROUND.
- 36. PRIOR TO COMMENCEMENT OF WORKS TREE PROTECTION ZONES (TPZ) ARE TO BE INSTALLED AS SPECIFIED IN THE ANNOTATED DETAILS FORMING PART OF THE PLANNING PERMIT TO TREES NOTED "TO BE RETAINED". THIS INCLUDES THE FOLLOWING
- RING LOCK WIRE MESH MINIMUM 1.20m HIGH (STD DRG SDL.2.02) - MAIN POSTS 100mm TREATED PINE (TP), MINIMUM 1.80m HIGH
- INTERMEDIATE POSTS STEEL STAR PICKETS (SP), MINIMUM 1.80m HIGH
- THE CORNER POSTS ARE TO BE TP WITH TP STAYS - EVERY THIRD POST TO BE TP - SP TO BE PLACED INTERMEDIATELY BETWEEN THE TP AT MAX 3.0m INTERVALS
- THE RING LOCK MESH TO ENCIRCLE THE STRUCTURE AND BE FIRMLY
- SECURED AT EACH POST - POSTS MUST BE SUNK INTO THE GROUND BY 450mm (THERE IS TO BE NO CONCRETE
- TO SECURE POSTS AS THIS WILL AFFECT pH LEVELS)
- HIGH VISIBILTIY HAZARD MARKER TAPE SECURELY FIXED TO TOP OF WIRE MESH FENCE WITH WIRE TIES
- THE TREE PROTECTION ZONE IS TO BE CLEARLY SIGN POSTED IN ACCORDANCE WITH CONDITION 20 OF THE PLANNING PERMIT (STD DRG SDL.2.03)

NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY TREE UNTIL APPROVAL IS GIVEN BY THE ENGINEER.

- 37. PROVIDE 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. FENCING TO BE ERECTED BY THE DEVELOPER (OR OWNER) AT NO COST TO COUNCIL.PALINGS TO BE ON THE RESERVE SIDE AND CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SDL.3.09 & SDL.3.10.
- 38. VEHICULAR EXCLUSION FENCING TO BE PROVIDED ALONG THE ROAD FRONTAGES OF ALL RESERVES. REFER LANDSCAPE PLANS FOR FENCE DETAILS. FENCING TO BE CONSTRUCTED AS PART OF LANDSCAPE WORKS.
- 39. PROVIDE TEMPORARY SAFETY BARRIER FENCE (FARM FENCE AS PER MW STD. DWG. 7251/8/203) ALONG EDGE OF OUTFALL DRAINS. SAFETY FENCE TO REMAIN UNTIL PERMANENT UNDERGROUND DRAINAGE IS INSTALLED.
- 40. EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE

CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.

- 41. TACTILE GROUND SURFACE INDICATORS (TGSI) ARE TO BE INSTALLED WHERE SHOWN IN ACCORDANCE WITH COUNCIL STD DRG SD320 AND AS1428.
- 44. A BUILDING PERMIT MUST BE OBTAINED FOR ANY STRUCTURAL/RETAINING WALL EXCEEDING 1.0m IN HEIGHT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA. A COPY OF BUILDING PERMITS AND 'CERTIFICATE OF COMPLIANCE - CONSTRUCTION' TO BE SUBMITTED TO COUNCIL PRIOR TO STATEMENT OF
- 45. ALL STRUCTURAL WORKS MUST BE SUPERVISED BY A QUALIFIED STRUCTURAL ENGINEER.



— Ex W —— Ex W — — Ex S —— EX G

Tree To Be Retained with Tree Protection Zone (TPZ)

1/19 cato street hawthorn east, 3123

+ TW28.57

civil engineers fax no 8823 2310 MUNICIPALITY REFERENCE

WHITTLESEA

RATHDOWNE ESTATE STAGE 37 **DETAIL PLAN** SCALE AS SHOWN DATUM AHD DATE OCT'20

Ex Drains

land surveyors

388-C-10

BPD

MELWAY REF.

SURVEY

DESIGN

DRAWN

CHECKED

Ex Water DW/NDW

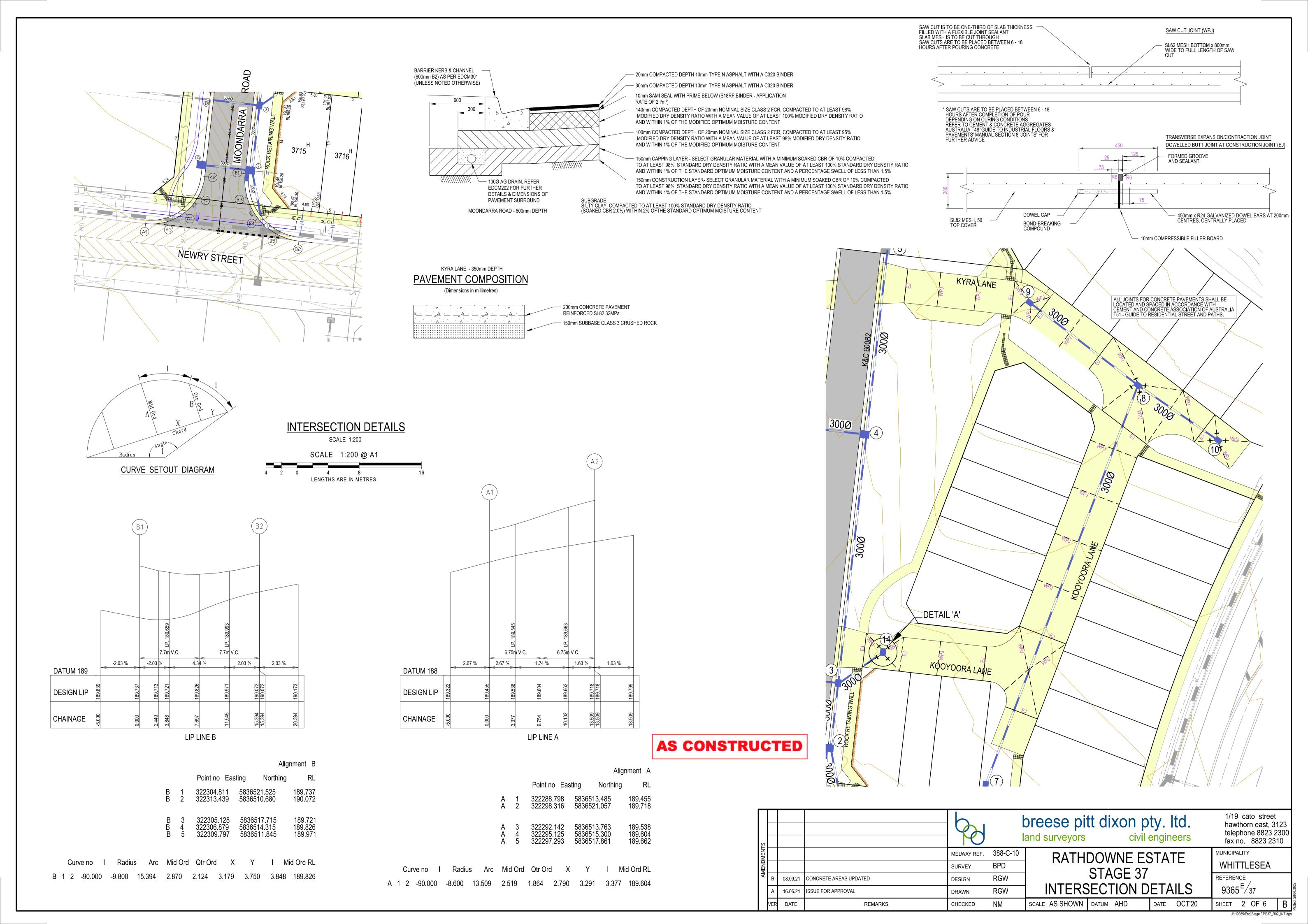
Ex Elect/Telecomm

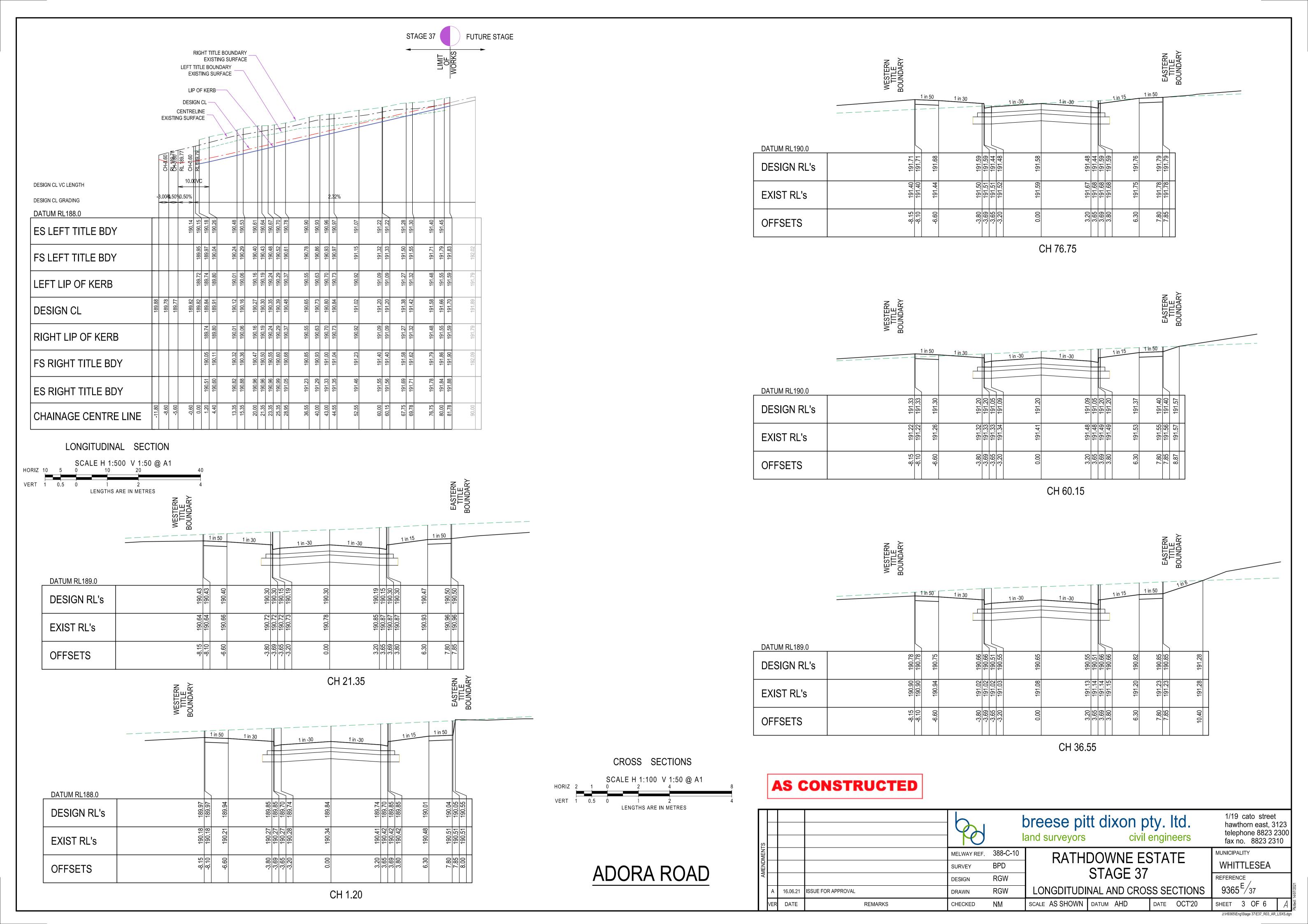
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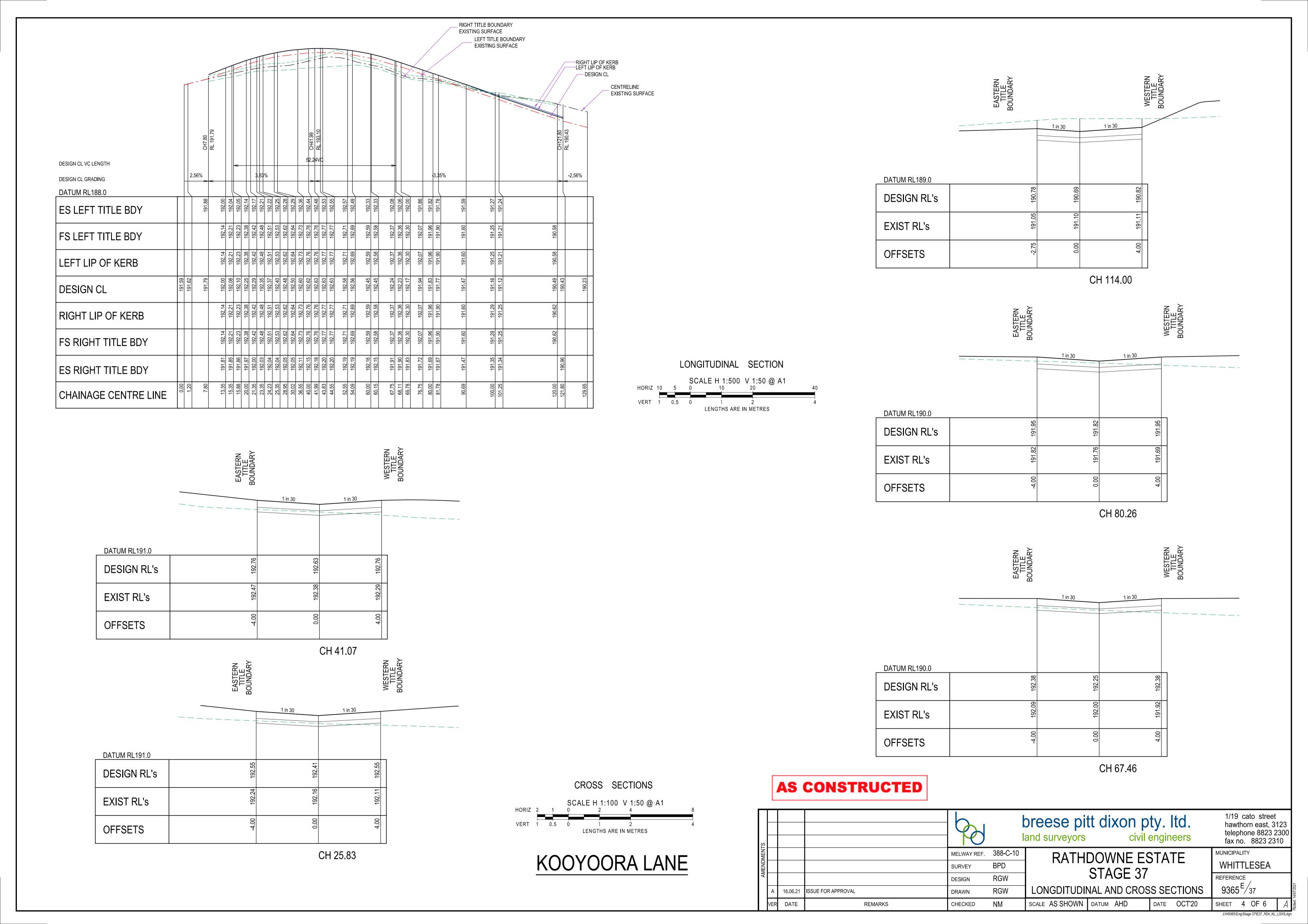
Ex Sewer/Gas

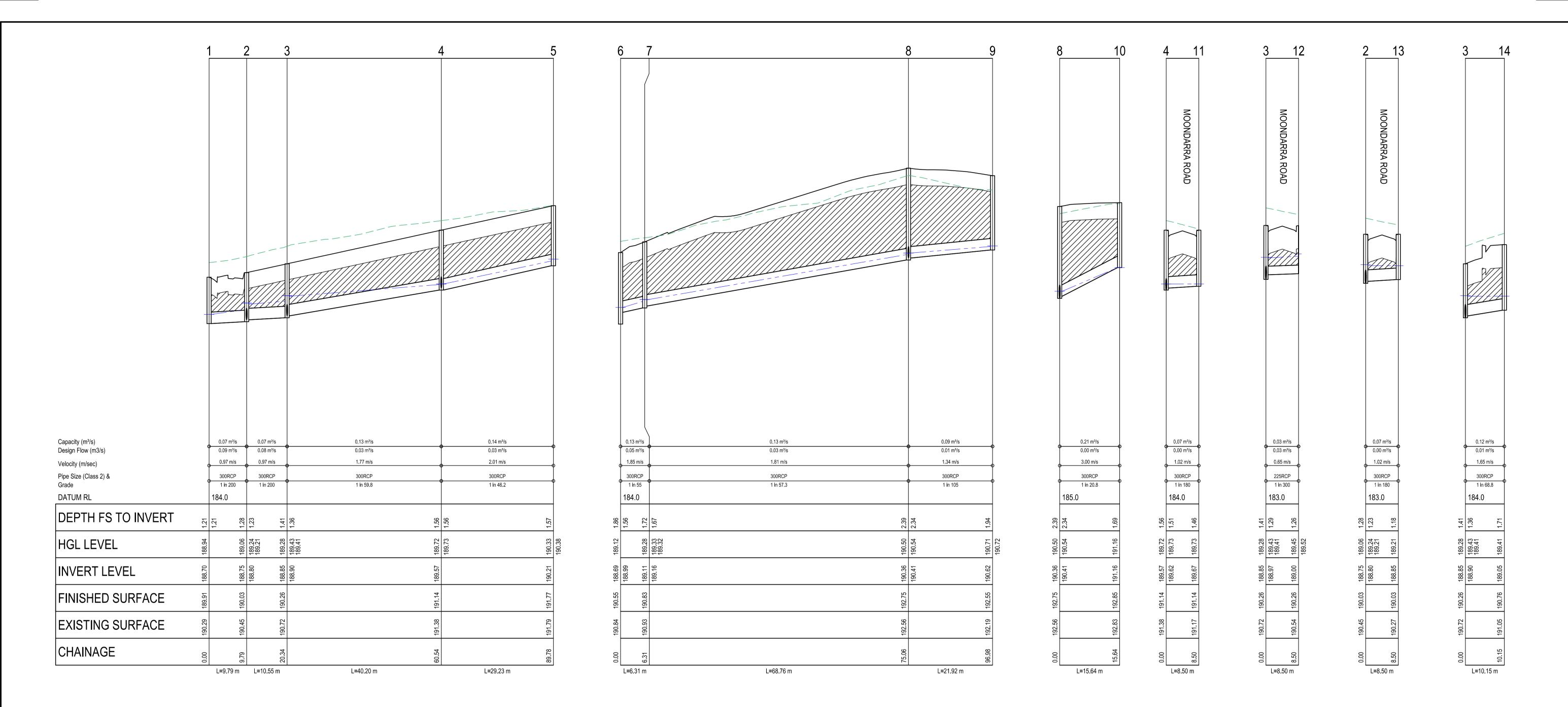
SHEET

telephone 8823 2300

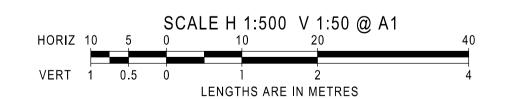








	PIT SCHEDULE										
PIT	DIT DESCRIPTION	LENGTH	WIDTH	INLET		OUTLET		ТОР	DEPTH		
No.	PIT DESCRIPTION			INVERT	DIA	INVERT	DIA	PIT RL	INVERT	REMARKS	
										CONECT TO EXISTING PIT AND REPLACE COVER WITH CLASS	
1	JUNCTION PIT			188.70	300			189.92	1.22	D GATIC COVER	
2	DOUBLE GRATED ENTRY PIT	900	600	188.80	300	188.75	300	189.89	1.14	GAA STD DWG EDCM601	
				188.80	300						
3	JUNCTION PIT	900	600	188.90	300	188.85	300	190.13	1.28	GAA STD DWG EDCM605	
				188.97	225						
				188.90	300						
4	GRATED ENTRY PIT	900	600	189.57	300	189.57	300	191.06	1.48	GAA STD DWG EDCM601	
				189.62	300						
5	END PIPE					190.21	300	191.74	1.53	CAP END FOR FUTURE CONNECTION	
6	JUNCTION PIT	900	900	188.99	300			190.55	1.86	CONSTRUCT OVER EXISTING 600 DIA DRAIN	
7	GRATED PIT	900	600	189.16	300	189.11	300	190.81	1.70	GAA STD DWG EDCM605 (GRATED COVER)	
8	GRATED PIT	900	600	190.41	300	190.36	300	192.68	2.32	GAA STD DWG EDCM605 (GRATED COVER)	
				190.41	300						
9	GRATED PIT	900	600			190.62	300	192.47	1.85	GAA STD DWG EDCM605 (GRATED COVER)	
10	GRATED PIT	900	600			191.158	300	192.821	1.663	GAA STD DWG EDCM605 (GRATED COVER)	
11	GRATED ENTRY PIT	900	600			189.671	300	191.043	1.371	GAA STD DWG EDCM601	
12	JUNCTION PIT	900	600			189	225	190.111	1.111	GAA STD DWG EDCM605	
13	GRATED ENTRY PIT	900	600			188.847	300	189.874	1.027	GAA STD DWG EDCM601	
14	GRATED PIT	900	600			189.048	300	190.587	1.539	GAA STD DWG EDCM605 (GRATED COVER)	



INDICATES CRUSHED ROCK BACKFILL
INDICATES 5YR HGL

# AS CONSTRUCTED

S				by the second se		oreese pit	•	ty. Itd. engineers	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310		
MEN				MELWAY REF.	388-C-10	RATH	MUNICIPALITY				
AMENDMENTS				SURVEY	BPD	l	WHITTLESEA				
A				DESIGN	RGW		REFERENCE				
İ	Α	16.06.21	ISSUE FOR APPROVAL	DRAWN	RGW	DRAINAGE L	9365 <sup>E</sup> /37	4/07/202			
ļ	VER	DATE	REMARKS	CHECKED	NM	SCALE AS SHOWN	DATUM AHD	DATE OCT'20	SHEET 5 OF 6	Plotted: 1	
				•					J:\H9365\Eng\Stage 37\E37_R05_D	RN.dgn	

