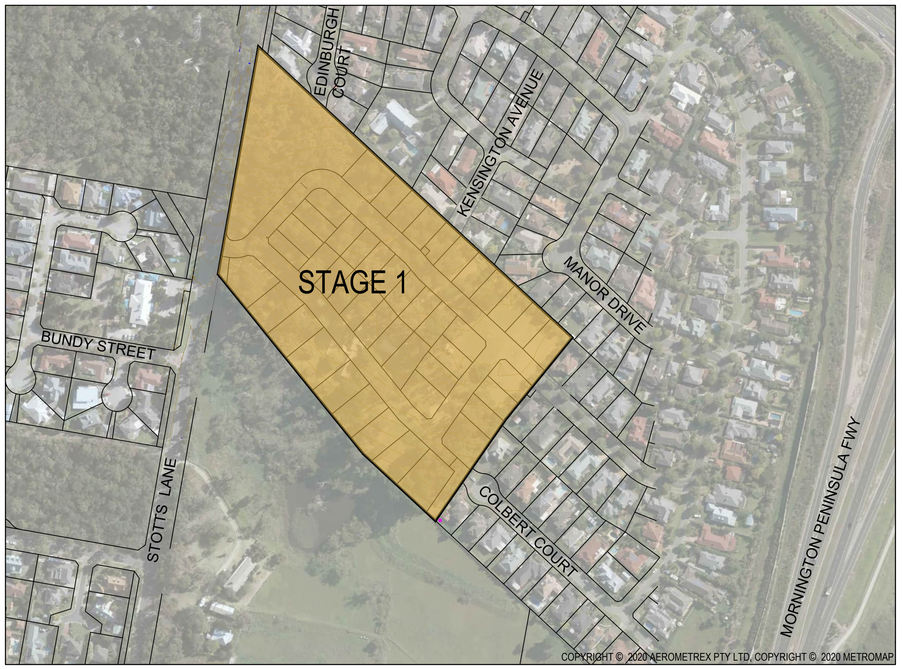
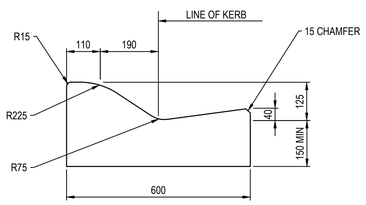
86 Stotts Lane
Stage 1



Drawing Index



SM2 KERB DETAIL
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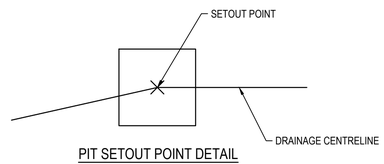
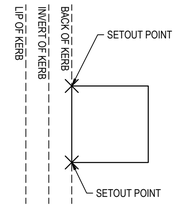


PIT SETOUT POINT DETAIL
NOT TO SCALE



KERB PIT SETOUT POINT DETAIL
NOT TO SCALE

GENERAL NOTES (FRANKSTON CITY COUNCIL)

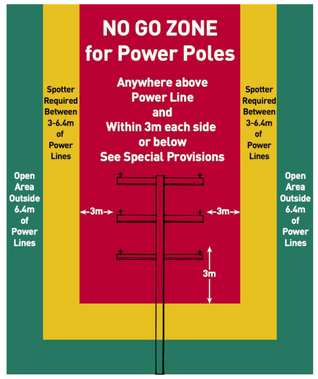
1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF FRANKSTON CITY COUNCIL'S STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY 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 TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
3. THE CONTRACTOR SHALL:
   - 3.1. COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
   - 3.2. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
   - 3.3. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER. THE REMOVAL OR RETENTION OF EXISTING TREES MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS. OTHERWISE, APPROVAL WILL BE REQUIRED FROM THE LANDSCAPE APPROVAL OFFICER.
7. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
8. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE PLACED A MINIMUM OF 5m FROM BOUNDARIES/EASEMENTS AND TO THE SATISFACTION OF THE SUPERINTENDENT. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS G,W,E AND T ABOVE CONDUIT LOCATIONS AS SPECIFIED. TELSTRA CONDUITS WILL BE SUPPLIED BY TELSTRA AT TELSTRA'S EXPENSE, IN TRENCHES EXCAVATED AND BACKFILLED BY THE CONTRACTOR. TELSTRA SIZE VARIES - WHITE P.V.C.. TELSTRA TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS. WATER CONDUITS TO BE 200mm AND 100mm FOR GAS, CLASS 12 P.V.C. LAID BELOW PAVEMENT DEPTH.
9. SUBSOIL DRAINS SHALL BE INSTALLED BEHIND ALL KERB AND CHANNEL AS PER COUNCIL SPECIFICATION AND STANDARD DRAWINGS.
10. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
11. THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE SUPERINTENDENT THE EXACT LOCATION OF ALL SERVICES PRIOR TO THE INSTALLATION OF CONDUITS.
12. ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
13. CLEAN CERTIFICATES WILL BE REQUIRED IN ACCORDANCE WITH EPA REQUIREMENTS IF ANY IMPORTED FILL MATERIAL IS TO BE PLACED ON SITE.
14. FILLING IN PROPERTIES AND ROAD RESERVE IS TO BE CARRIED OUT USING APPROVED CLAY FILL. TOPSOIL AND ALL VEGETABLE MATTER TO BE STRIPPED FROM FILL SITE PRIOR TO FILLING. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAX. DRY DENSITY UNDER THE STANDARD AASHO TEST. ALL FILLING WITHIN PROPERTIES TO COMPLY WITH AS 3798-2007 SECTION 8.2, LEVEL 1. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT. IF ANY EXISTING SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE, IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL COMPACTED TO COUNCIL REQUIREMENTS. A GEOTECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
15. THE NATURE STRIPS AND CUT OR FILLED AREAS ARE TO BE TOPSOILED WITH 75mm OF APPROVED MATERIAL. IF THE LOCAL SOIL IS NOT SUITABLE, APPROVED SOIL SHALL BE IMPORTED AT THE CONTRACTOR'S EXPENSE. STREETSCAPE RESERVES/NATURESTRIPS TO BE GRASSED. GRASS TO BE KIKUYU (OR OTHER GRASS TYPE TO COUNCIL APPROVAL) AND IS TO BE MAINTAINED (INCLUDING WATERING) BY THE DEVELOPER FOR THE DURATION OF THE CIVIL STREET WORKS TO FINAL COMPLETION.
16. UNLESS OTHERWISE SHOWN, BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 IN 3 CUT AND 1 IN 6 FILL. CUT BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, STRAW AND BITUMEN EMULTION
17. LOTS SHALL BE GRADED TO ENSURE A MINIMUM GRADE OF 1 IN 150 ON THE LOWEST SIDE BOUNDARY TO THE POINT OF DRAINAGE.
18. ALL 3000 OR LARGER TO BE R.C. ALL R.C PIPES TO BE CLASS 2 UNLESS NOTED OTHERWISE.
19. STORMWATER DRAINS UNDER PAVEMENTS, FOOTPATHS AND DRIVEWAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK.
20. STORMWATER DRAINS BEHIND KERB TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK WHERE SIDE OF TRENCH COMES WITHIN 150mm OF THE BACK OF KERB, UNLESS SHOWN OTHERWISE.
21. TERRA FIRMA FIBREGLASS TYPE LIDS OR APPROVED EQUIVALENT ARE REQUIRED FOR ALL DRAINAGE PITS AND ALL GRATES ARE TO BE CLASS D TO COMPLY WITH AS3996.
22. HOUSE DRAINS ARE TO BE CONNECTED DIRECT TO AN UNDERGROUND DRAIN OR PIT IF POSSIBLE.
23. PROPERTY INLET PITS ARE TO BE LOCATED 2.00m FROM LOW SIDE BOUNDARY IN REAR OF LOTS AND 5.0m FROM LOW SIDE AT THE FRONT OF LOTS UNLESS OTHERWISE SHOWN. HOUSE DRAINS TO BE CLEAR OF ALL OTHER SERVICES WITH INVERT LEVEL OF PROPERTY INLET IS TO BE A MINIMUM OF 500mm BELOW FINISHED/EXISTING SURFACE LEVEL. A PROPERTY INLET GULLY BASIN IS NOT REQUIRED AT PROPERTY INLET POINTS.
33. PROPOSED CROSS OVER AS PER COUNCIL STANDARD DRAWING SD310. DRIVEWAYS TO BE LOCATED MIN 0.3m FROM BUILDING LINE AND CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES.
34. TYPICAL FOOTPATH ARE TO BE 150mm THICK & CONCRETE SHARED PATHS TO BE 180mm THICK. REINFORCEMENT IN ACCORDANCE WITH COUNCIL STANDARDS SD308 FOR FOOTPATHS SUBJECT TO HEAVY LOADING.
35. TACTILE GROUND SURFACE INDICATORS (TGSI) ARE TO BE INSTALLED AT ALL PRAM CROSSINGS AND PEDESTRIAN CROSS POINTS IN ACCORDANCE WITH AS1428.
36. ALL STREET SIGNS ARE TO BE TO CURRENT COUNCIL STANDARD, INCLUDING PROVISION OF LOGO.
37. SIGNS, PAVEMENT MARKINGS AND DELINEATORS ARE TO BE INSTALLED AS APPLICABLE IN ACCORDANCE WITH AS1742.2. ALL PAVEMENT MARKINGS TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
38. NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS IS TO BE BURNT ON SITE.
39. ANY SOFT ROCK USED IS TO CONFORM TO THE COUNCIL STANDARD SPECIFICATION FOR RIPPED ROCK.
40. APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
41. CONCRETE TO BE PLACED AROUND ELECTRICAL DISTRIBUTION PITS TO A MINIMUM DEPTH OF 200mm. DISTRIBUTION PITS TO BE A MINIMUM OF 300mm FROM EDGE OF FOOTPATHS.
42. UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP AND GRADED OVER. ALL RUBBISH IS TO BE REMOVED AND THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
43. APPROVAL WILL BE REQUIRED FROM COUNCIL'S CONSERVATION OFFICER FOR ALTERATION, REMOVAL OR EXCAVATION OF ANY SIGNIFICANT EXISTING FEATURES, BUILDINGS, STRUCTURES OR VEGETATION.
44. A CCTV INSPECTION OF ALL DRAINAGE LINES TO BE UNDERTAKEN BY THE CONTRACTOR TO THE SATISFACTION OF COUNCIL WORKS SUPERVISOR. NOTE THE CCTV MUST BE IN WINCAM FORMAT AND IN ACCORDANCE WITH WSAA.
45. STEP IRONS REQUIRED IN DRAINAGE PITS DEEPER THAN 900mm.
46. DRAINAGE WORKS WITHIN TREE PROTECTION ZONES ARE SUBJECT TO APPROVAL FROM AND MUST BE CARRIED OUT IN ACCORDANCE WITH CONDITIONS, SET OUT IN THE PLANNING PERMIT BY THE RESPONSIBLE AUTHORITY AND ASSOCIATED TREE MANAGEMENT REPORT

TABLE 6: TBM SETOUT TABLE

POINT	EAST	NORTHING	ELEVATION	DESCRIPTION
TDS1	338176.57	5772409.89	94.54	RIVET
TDS3	338421.77	5772267.03	93.41	STAR PICKET
TDS4	338144.07	5772288.10	86.15	SPIKE
TDS5	338195.94	5772514.04	101.45	SPIKE

NOTES FOR WORKS UNDER OVERHEAD ELECTRICAL POWERLINES

1. MAINTENANCE AND REFUELLING OF VEHICLES AND EQUIPMENT MUST NOT BE CARRIED OUT UNDER POWERLINES
2. THE STORAGE OR HANDLING OF FLAMMABLE LIQUIDS OR GASSES IS NOT PERMITTED UNDER POWERLINES
3. THE PARKING OF LARGE VEHICLES OR CARAVANS, SITE HUTS OR SIMILIAR IS NOT PERMITTED UNDER POWERLINES
4. STOCKPILING OF EXCAVATED MATERIAL IS NOT PERMITTED UNDER POWERLINES
5. VEHICLES AND EQUIPMENT EXCEEDING 3 METRES MAXIMUM OPERATING HEIGHT ARE NORMALLY NOT PERMITTED UNDER AUSNETS POWERLINES. A HIGHER OPERATING HEIGHT LIMIT IS SUBJECT TO SUFFICIENT CLEARANCE TO THE CONDUCTORS AND WRITTEN APPROVAL
6. SP AUSNET'S LINES CONTRACT SUPERVISOR MUST BE NOTIFIED AT LEAST 10 WORKING DAYS PRIOR TO THE WORKS COMMENCING SO THAT APPROPRIATE PERMITS CAN BE ARRANGED. ADDITIONAL SAFETY PRECAUTIONS DEEMED NECESSARY WILL BE ADVISED AT THIS TIME. ALL PERSONS COMMENCING WORK ON THE SITE MUST BE MADE AWARE OF PERMIT CONDITIONS AND SAFETY PRECAUTIONS
7. ALL WORK IN THE VICINITY MUST BE IN ACCORDANCE WITH THE INDUSTRIES NO GO ZONE REQUIREMENTS AND SP AUSNET MUST BE SATISFIED THAT ALL SUB CONTRACTORS WORKING IN THE AREA IN THE VICINITY OF THE OVERHEAD LINES WORK WITHIN THESE GUIDELINES, INCLUDING THE PROVISION OF A SPOTTER AS REQUIRED.



WARNING
SAFETY MEASURES REQUIRED
Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety In Design Risk Register
SID P4.E6. 2826E-001-500
ASSESS THE RISK - STAY SAFE

WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site.
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Locate all underground services before commencement of works
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AS CONSTRUCTED PLANS
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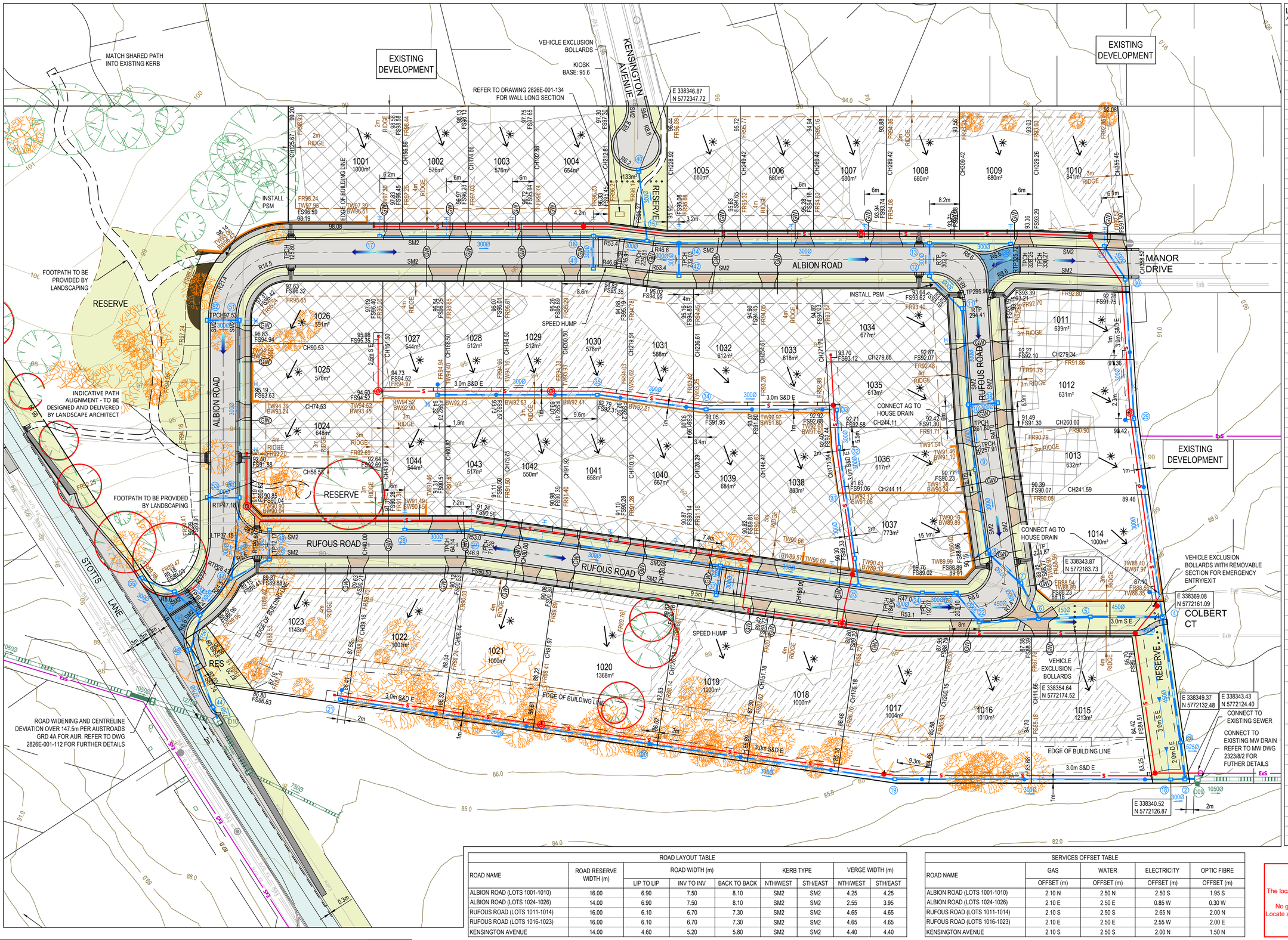
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Cover Plan & General Notes

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-101	01 of 39	1



LEGEND - LAYOUT PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
E	ELECTRICITY (U.GROUND)
O/H	ELECTRICITY (O.HEAD)
G	GAS
T	TELSTRA
O	OPTIC FIBRE
W	WATER
RW	RECYCLE WATER
Ag	AG. DRAIN
GW	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
H	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
O/H E	EXISTING ELECTRICITY OVERHEAD
Ex G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex O	EXISTING OPTIC FIBRE
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex Ag	EXISTING AG. DRAIN
GWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
H	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
Fut O/H E	FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
Fut O	FUTURE OPTIC FIBRE
Fut W	FUTURE WATER
Fut RW	FUTURE RECYCLED WATER
Fut Ag	FUTURE AG. DRAIN
GWR	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
CH270.00	CHAINAGE
TW159.60	TOP OF RETAINING WALL LEVEL
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	TREE PROTECTION ZONE - REFER TO TREE MANAGEMENT REPORT
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED THRESHOLD TREATMENT
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

ROAD LAYOUT TABLE

ROAD NAME	ROAD RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
		LIP TO LIP	INV TO INV	BACK TO BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
ALBION ROAD (LOTS 1001-1010)	16.00	6.90	7.50	8.10	SM2	SM2	4.25	4.25
ALBION ROAD (LOTS 1024-1026)	14.00	6.90	7.50	8.10	SM2	SM2	2.55	3.95
RUFOUS ROAD (LOTS 1011-1014)	16.00	6.10	6.70	7.30	SM2	SM2	4.65	4.65
RUFOUS ROAD (LOTS 1016-1023)	16.00	6.10	6.70	7.30	SM2	SM2	4.65	4.65
KENSINGTON AVENUE	14.00	4.60	5.20	5.80	SM2	SM2	4.40	4.40

SERVICES OFFSET TABLE

ROAD NAME	GAS	WATER	ELECTRICITY	OPTIC FIBRE
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
ALBION ROAD (LOTS 1001-1010)	2.10 N	2.50 N	2.50 S	1.95 S
ALBION ROAD (LOTS 1024-1026)	2.10 E	2.50 E	0.85 W	0.30 W
RUFOUS ROAD (LOTS 1011-1014)	2.10 S	2.50 S	2.65 N	2.00 N
RUFOUS ROAD (LOTS 1016-1023)	2.10 E	2.50 E	2.55 W	2.00 E
KENSINGTON AVENUE	2.10 S	2.50 S	2.00 N	1.50 N

WARNING

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Frankston City Council
Road and Drainage
Layout Plan

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102 K1	2826E-001-111	02 of 39	5

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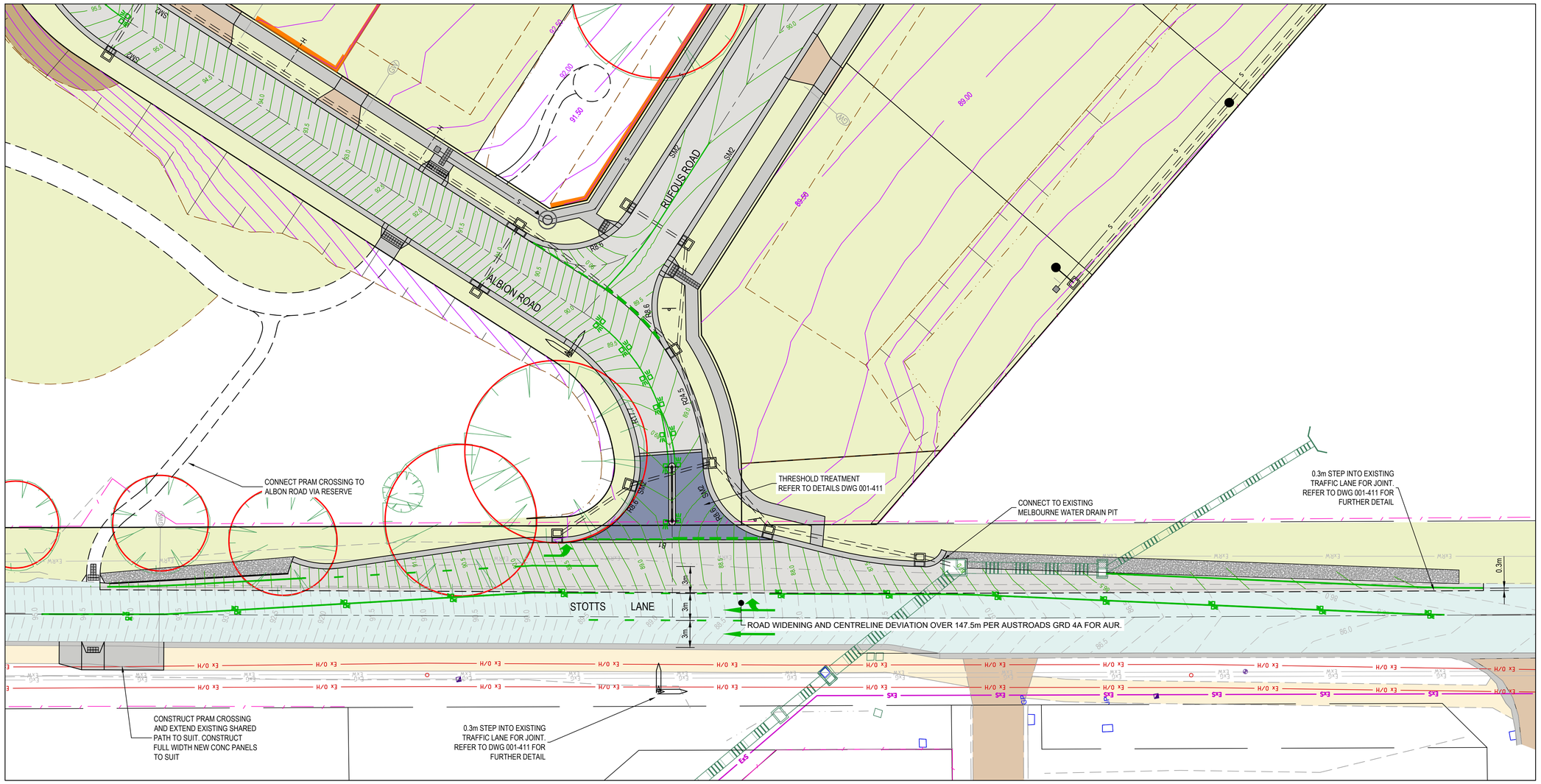


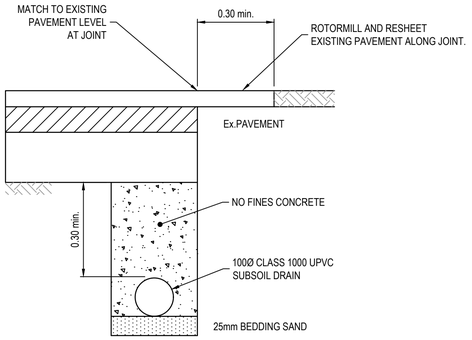
LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
84.5	DETAILED CONTOURS
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED THRESHOLD TREATMENT
	PROPOSED DRIVEWAY & FOOTPATH

NOTES

1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
5. SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.
6. ALL STREET SIGNS ARE TO BE TO CURRENT COUNCIL STANDARD, INCLUDING PROVISION OF LOGO.
7. SIGNS, PAVEMENT MARKINGS AND DELINEATORS ARE TO BE INSTALLED AS APPLICABLE IN ACCORDANCE WITH AS1742.2. ALL PAVEMENT MARKINGS TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.



PAVEMENT JOINT DETAIL (VICROADS) BETWEEN EXISTING AND NEW PAVEMENT CONSTRUCTION

NOT TO SCALE

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0 2.5 5 10
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102 K1	2826E-001-112	03 of 39	2

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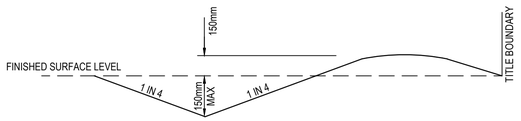
LEGEND - EARTHWORKS PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	AG. DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG. DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
CH270.00	CHAINAGE
TW159.60	TOP OF RETAINING WALL LEVEL
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING
	TREE PROTECTION



TEMPORARY CATCH DRAIN DETAIL

NOT TO SCALE

NOTES

REFER TO SHEETS 2826E-001-132 TO 2826E-001-134 FOR RETAINING WALL LONGITUDINAL SECTION.

WARNING

BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
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AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

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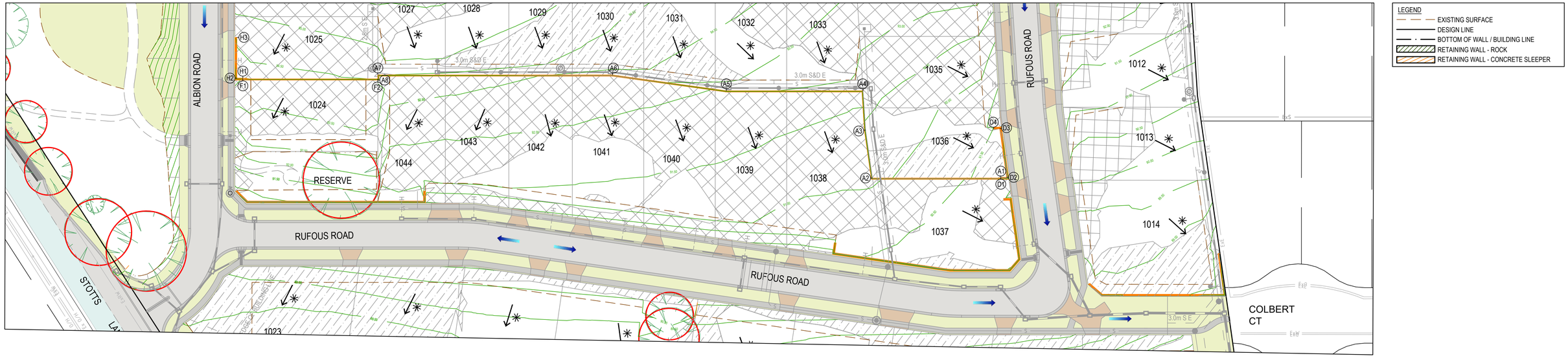
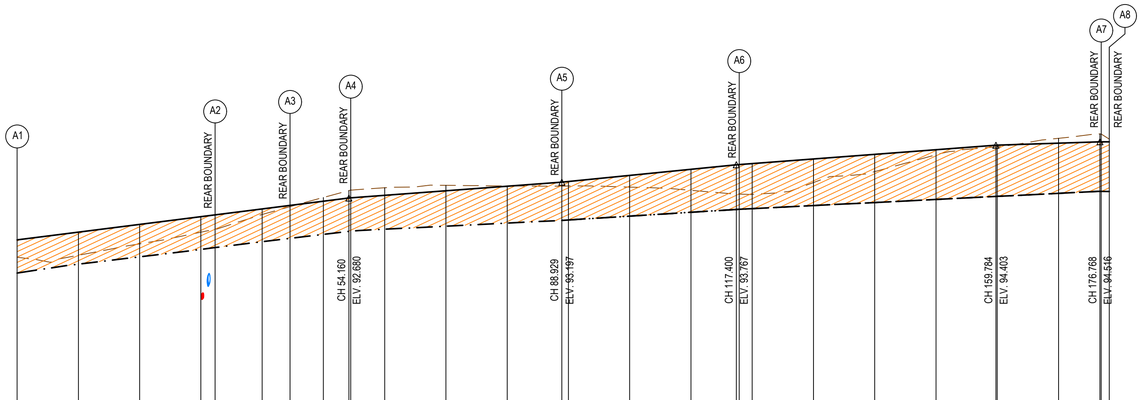
Frankston City Council
Road and Drainage
Earthworks & Retaining Wall Setout Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-131	04 of 39	3

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-131.dwg PRINTED BY: LC20143 on 07/05/2024 at 04:31:01 PM

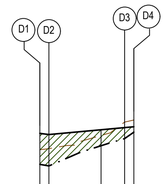




HORIZONTAL GEOMETRY
DATUM RL85

TOP OF WALL	91.31	91.56	91.82	92.07 92.13	92.32	92.44	92.59	92.69 92.69	92.77	92.92	93.06	93.20 93.22	93.42	93.62	93.77 93.77 93.81	93.95	94.11	94.26	94.40 94.40	94.47	94.52 94.52 94.52
BOTTOM OF WALL	90.28	90.52	90.76	91.00 91.07	91.25	91.36	91.49	91.59	91.66	91.76	91.86	91.95 91.96	92.09	92.21	92.31 92.31 92.33	92.43	92.53	92.63	92.73 92.73	92.83	92.89 92.89
HEIGHT OF WALL	1.03	1.04	1.06	1.07 1.06	1.07	1.08	1.08	1.09	1.11	1.15	1.20	1.25 1.25	1.33	1.40	1.46 1.46 1.47	1.52	1.57	1.62	1.67 1.67	1.64	1.62 1.62
EXISTING SURFACE	90.75	90.81	91.18	91.57 91.65	92.14	92.40	92.70	92.92 92.94	93.01	93.09	93.07	93.07 93.07	93.04	92.93	92.81 92.81 92.80	93.18	93.54	94.09	94.35 94.35	94.63	94.77 94.77 94.60
NORTHING	5772224.37	5772231.17	5772237.97	5772244.77 5772246.35	5772252.66	5772256.40	5772260.62	5772263.85 5772264.08	5772267.85	5772274.65	5772281.45	5772287.52 5772288.35	5772296.10	5772303.85	5772309.59 5772309.95 5772311.40	5772318.20	5772325.00	5772331.81	5772338.46 5772338.61	5772345.41	5772350.01 5772350.16 5772349.21
EASTING	338350.93	338343.61	338336.28	338328.95 338327.25	338331.63	338334.22	338337.66	338340.29 338340.48	338336.42	338329.09	338321.76	338315.22 338314.54	338308.22	338301.90	338297.22 338296.93 338295.36	338288.03	338280.70	338273.37	338266.20 338266.04	338258.71	338253.75 338253.59 338252.71
CHAINAGE	0.00	10.00	20.00	30.00 32.32	40.00	44.55	50.00	54.16 54.46	60.00	70.00	80.00	88.93 90.00	100.00	110.00	117.40 117.87 120.00	130.00	140.00	150.00	159.78 160.00	170.00	176.77 176.98 178.28

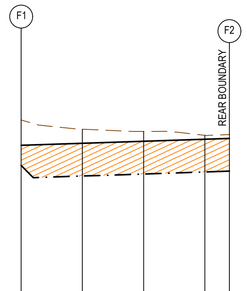
RETAINING WALL A - LONGITUDINAL SECTION



HORIZONTAL GEOMETRY
DATUM RL86

TOP OF WALL	91.29 91.25	91.41	91.48 91.50	
BOTTOM OF WALL	90.28 90.27	90.88	91.16 91.32	
HEIGHT OF WALL	1.01 0.98	0.52	0.31 0.18	
EXISTING SURFACE	90.75 90.79	91.22	91.66 91.72	
NORTHING	5772224.51 5772223.50	5772230.50	5772233.66 5772234.61	
EASTING	338351.08 338352.17	338357.02	338359.22 338358.04	
CHAINAGE	0.00 1.49	10.00	13.85 15.36	

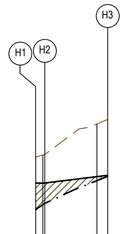
RETAINING WALL D - LONGITUDINAL SECTION



HORIZONTAL GEOMETRY
DATUM RL86

TOP OF WALL	94.29	94.36	94.42	94.49	94.52
BOTTOM OF WALL	93.43	93.29	93.35	93.42	92.89
HEIGHT OF WALL	0.86	1.07	1.07	1.07	1.62
EXISTING SURFACE	95.12	94.82	94.74	94.62	94.64
NORTHING	5772372.55	5772365.75	5772358.95	5772352.15	5772349.43
EASTING	338227.99	338235.32	338242.65	338249.98	338252.91
CHAINAGE	0.00	10.00	20.00	30.00	34.00

RETAINING WALL F - LONGITUDINAL SECTION



HORIZONTAL GEOMETRY
DATUM RL89

TOP OF WALL	94.39 94.29 94.39	94.51 94.55			
BOTTOM OF WALL	93.43 93.55 93.68	94.38 94.52			
HEIGHT OF WALL	0.86 0.74 0.62	0.13 0.03			
EXISTING SURFACE	95.15 95.21 95.23	96.23 96.37			
NORTHING	5772372.70 5772373.50 5772373.72	5772379.95 5772381.23			
EASTING	338228.12 338227.26 338227.02	338232.81 338234.00			
CHAINAGE	0.00 1.18 1.50	10.00 11.75			

RETAINING WALL H - LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 5 10 20
0 1 2 4
Scale H1:500, V1:100
SCALE AS SHOWN AT A1

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Frankston City Council
Road and Drainage
Earthworks and Retaining Wall Plan
and Long Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-132	05 of 39	1

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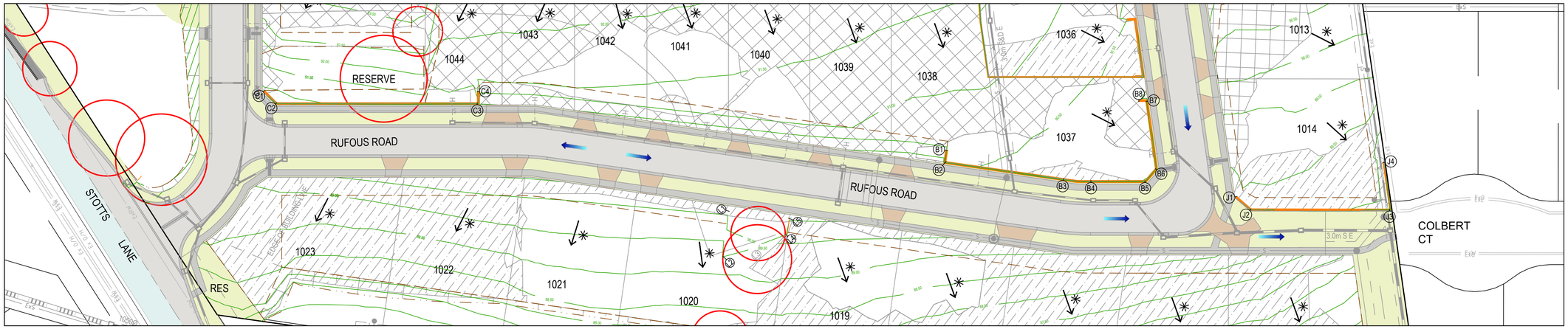
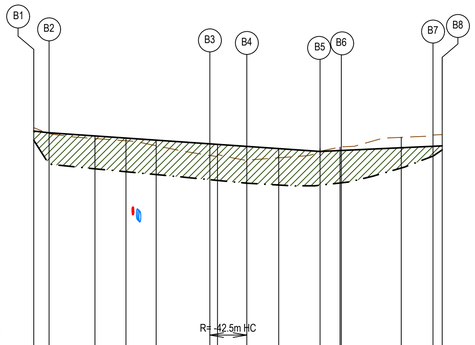


LEGEND
- EXISTING SURFACE
- DESIGN LINE
- BOTTOM OF WALL / BUILDING LINE
- RETAINING WALL - ROCK
- RETAINING WALL - CONCRETE SLEEPER



HORIZONTAL GEOMETRY
DATUM RL83

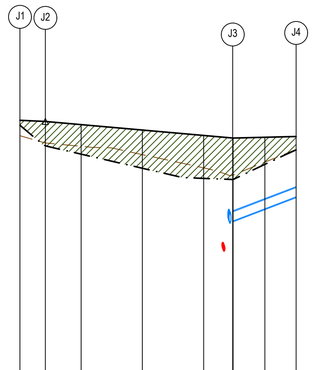
TOP OF WALL	90.66	90.60	90.50	90.43	90.36	90.24	90.22	90.16	90.09	89.99	90.03	90.03	90.12	90.16	90.18	
BOTTOM OF WALL		89.57	89.43	89.33	89.24	89.07	89.05	88.96	88.90	88.89	88.96	88.97	89.46	89.89	90.05	
HEIGHT OF WALL		1.03	1.07	1.10	1.12	1.17	1.18	1.20	1.19	1.10	1.06	1.05	0.66	0.28	0.13	
EXISTING SURFACE	90.77	90.57	90.42	90.34	90.18	89.86	89.87	89.71	89.79	89.96	90.14	90.14	90.46	90.53	90.55	
NORTHING	5772240.57	5772239.00	5772233.17		5772225.39	5772218.58	5772217.63	5772214.17	5772210.63	5772206.04	5772206.39	5772206.42	5772214.46	5772218.71	5772219.71	
EASTING	338309.43	338307.49	338312.20		338318.49	338323.99	338324.79	338328.11	338331.93	338336.86	338340.11	338340.32	338345.90	338348.85	338347.71	
CHAINAGE	0.00	2.50	10.00	15.05	20.00	28.75	30.00	34.79	40.00	46.74	50.00	50.21	60.00	65.18	66.69	

RETAINING WALL B - LONGITUDINAL SECTION

HORIZONTAL GEOMETRY
DATUM RL86

TOP OF WALL	90.94	90.99	90.96	91.06	91.10	91.20	91.36	91.49	91.49	91.50	91.51	
BOTTOM OF WALL	90.79	90.04	90.01	90.08	90.12	90.20	90.33	90.55	90.55	90.93	91.06	
HEIGHT OF WALL	0.15	0.87	0.96	0.98	0.98	1.00	1.03	0.94	0.94	0.57	0.45	
EXISTING SURFACE	91.20	90.90	90.91	91.03	91.10	91.21	91.40	91.42	91.42	91.58	91.64	
NORTHING	5772352.98	5772349.15	5772344.95	5772338.15	5772335.48	5772331.35	5772324.55	5772319.03	5772319.03	5772320.40	5772320.86	
EASTING	338207.78	338207.92	338212.45	338219.78	338222.66	338227.11	338234.44	338240.39	338240.40	338241.67	338242.09	
CHAINAGE	0.00	3.83	10.00	20.00	23.93	30.00	40.00	48.12	48.13	50.00	50.62	

RETAINING WALL C - LONGITUDINAL SECTION



HORIZONTAL GEOMETRY
DATUM RL80

TOP OF WALL	88.93	88.89	88.79	88.61	88.43	88.35	88.35	88.37	88.40
BOTTOM OF WALL	88.75	88.09	87.82	87.36	87.03	87.04	87.05	87.51	87.96
HEIGHT OF WALL	0.18	0.80	0.97	1.25	1.40	1.31	1.30	0.87	0.44
EXISTING SURFACE	88.42	88.19	88.08	87.81	87.38	87.13	87.14	87.56	87.97
NORTHING	5772189.61	5772185.48	5772181.50	5772174.69	5772167.89	5772164.85	5772164.70	5772168.97	5772173.16
EASTING	338349.35	338349.80	338354.08	338361.40	338368.73	338372.21	338372.24	338375.19	338378.09
CHAINAGE	0.00	4.16	10.00	20.00	30.00	34.75	34.81	40.00	45.09

RETAINING WALL J - LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 5 10 20
0 1 2 4
Scale H1:500, V1:100
SCALE AS SHOWN AT A1

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and Long Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-133	06 of 39	2

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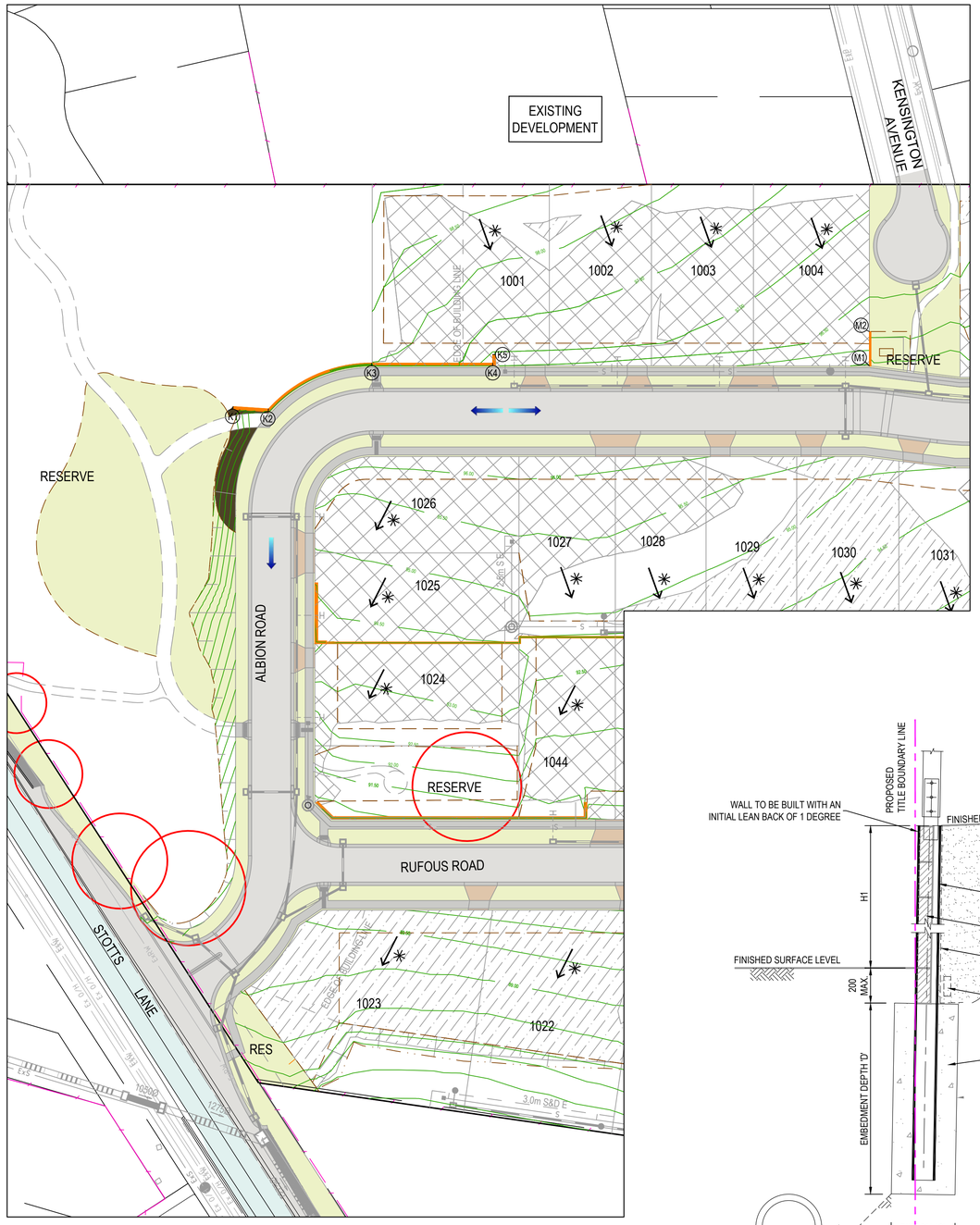
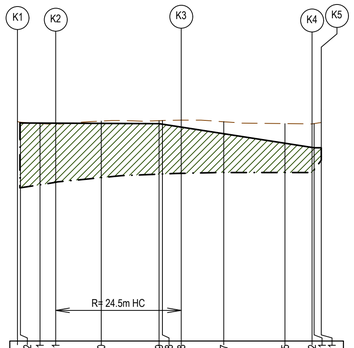
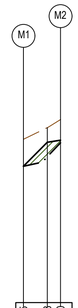


LEGEND
- EXISTING SURFACE
- DESIGN LINE
- BOTTOM OF WALL / BUILDING LINE
- RETAINING WALL - ROCK
- RETAINING WALL - CONCRETE SLEEPER



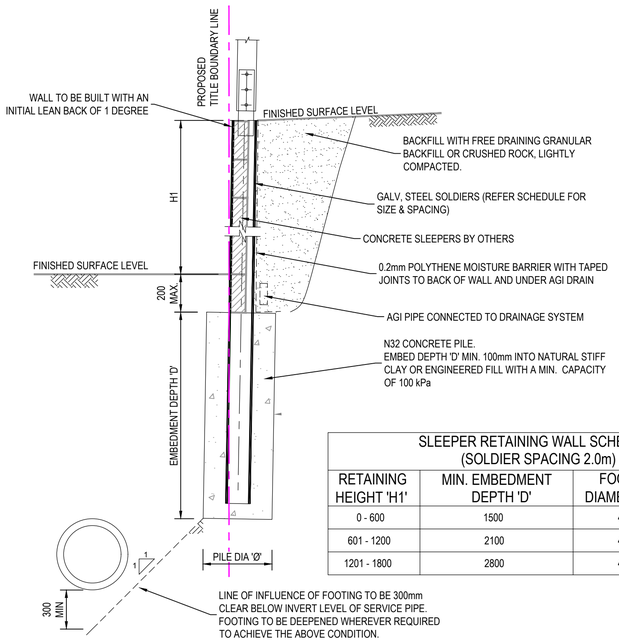
HORIZONTAL GEOMETRY														
DATUM RL91														
TOP OF WALL	98.12	98.11	98.11	98.10	98.09	98.08	97.98	97.77	97.45	97.32	97.31	97.31		
BOTTOM OF WALL	96.00	96.10	96.19	96.33	96.45	96.45	96.47	96.50	96.50	96.60	96.67	96.90		
HEIGHT OF WALL	2.11	2.01	1.92	1.77	1.65	1.63	1.51	1.27	0.95	0.72	0.64	0.40		
EXISTING SURFACE	98.16	98.14	98.10	98.07	98.18	98.19	98.20	98.21	98.16	98.10	98.09	98.10	98.13	
NORTHING	5772414.17	5772411.49	5772409.62	5772409.15	5772405.44	5772405.11	5772403.18	5772398.45	5772391.65	5772388.65	5772388.90	5772389.75		
EASTING	338244.20	338246.73	338248.49	338255.88	338264.49	338264.95	338267.32	338272.41	338279.74	338282.98	338283.21	338284.00		
CHAINAGE	36.32	36.81	40.00	42.57	50.00	59.43	60.00	63.06	70.00	80.00	84.42	84.76	85.92	

RETAINING WALL K - LONGITUDINAL SECTION



HORIZONTAL GEOMETRY			
DATUM RL91			
TOP OF WALL	95.45	96.23	96.30
BOTTOM OF WALL	95.45	95.76	96.21
HEIGHT OF WALL	0.00	0.47	0.09
EXISTING SURFACE	96.33	96.71	96.97
NORTHING	5772343.09	5772345.94	5772347.52
EASTING	338331.34	338333.99	338335.46
CHAINAGE	0.00	3.89	6.05

RETAINING WALL Kiosk - LONGITUDINAL SECTION

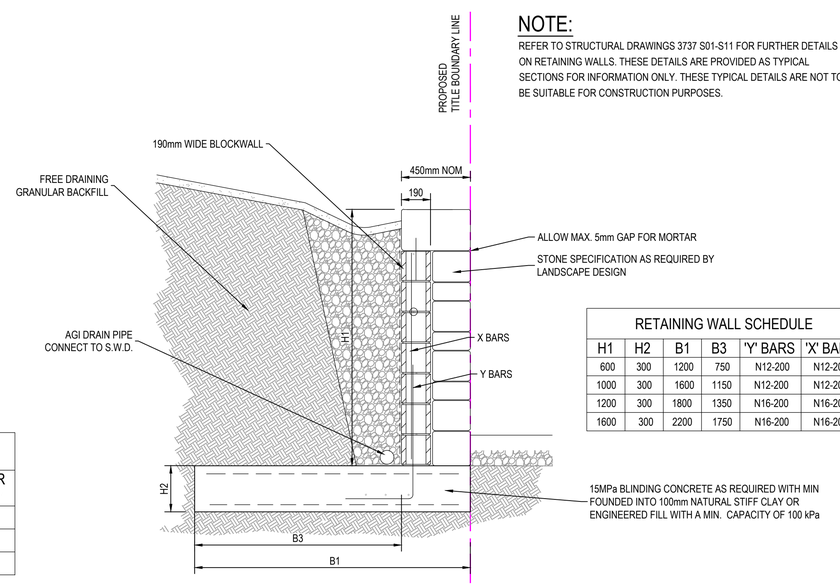


SLEEPER RETAINING WALL SCHEDULE (SOLDIER SPACING 2.0m)			
RETAINING HEIGHT 'H1'	MIN. EMBEDMENT DEPTH 'D'	FOOTING DIAMETER 'Ø'	SOLDIER SIZE 'S'
0 - 600	1500	450	100 UC 14.8
601 - 1200	2100	450	100 UC 14.8
1201 - 1800	2800	450	150 UC 23.4

TYPICAL RETAINING WALL (CONCRETE SLEEPER) DETAIL

NOTE:

REFER TO STRUCTURAL DRAWINGS 3737 S01-S11 FOR FURTHER DETAILS ON RETAINING WALLS. THESE DETAILS ARE PROVIDED AS TYPICAL SECTIONS FOR INFORMATION ONLY. THESE TYPICAL DETAILS ARE NOT TO BE SUITABLE FOR CONSTRUCTION PURPOSES.



RETAINING WALL SCHEDULE					
H1	H2	B1	B3	'Y' BARS	'X' BARS
600	300	1200	750	N12-200	N12-200
1000	300	1600	1150	N12-200	N12-200
1200	300	1800	1350	N16-200	N16-200
1600	300	2200	1750	N16-200	N16-200

TYPICAL RETAINING WALL (ROCK) DETAIL

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 5 10 20
0 1 2 4
Scale H1:500, V1:100
SCALE AS SHOWN AT A1

N

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Melbourne, VIC 3008
Ph 03 9514 1500

PASKGROUP™ ESTABLISHED 1969

86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Earthworks and Retaining Wall Plan
and Long Sections - 3

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-134	07 of 39	4

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-134.dwg PRINTED BY: LC20143 on 07/05/2024 at 04:31:43 PM

LEGEND - EARTHWORKS PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
S	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
E	ELECTRICITY (U.GROUND)
O/H	ELECTRICITY (O.HEAD)
G	GAS
T	TELSTRA
O	OPTIC FIBRE
W	WATER
RW	RECYCLE WATER
Ag	AG. DRAIN
GW	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
H	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
O/H E	EXISTING ELECTRICITY OVERHEAD
Ex G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex O	EXISTING OPTIC FIBRE
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex.Ag	EXISTING AG. DRAIN
GWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
H	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
Fut O/H E	FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
Fut O	FUTURE OPTIC FIBRE
Fut W	FUTURE WATER
Fut RW	FUTURE RECYCLED WATER
Fut Ag	FUTURE AG. DRAIN
GWR	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
CH270.00	CHAINAGE
TW159.60	TOP OF RETAINING WALL LEVEL
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

WARNING

BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

DIAL 1100 BEFORE YOU DIG

www.1100.com.au

NOTES

1. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMs AT MAX 6m SPACING.
2. RRPMs TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL 2.
3. ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.	PS906371N
PERMIT REF. NO.	182/2020/p

AS CONSTRUCTED

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

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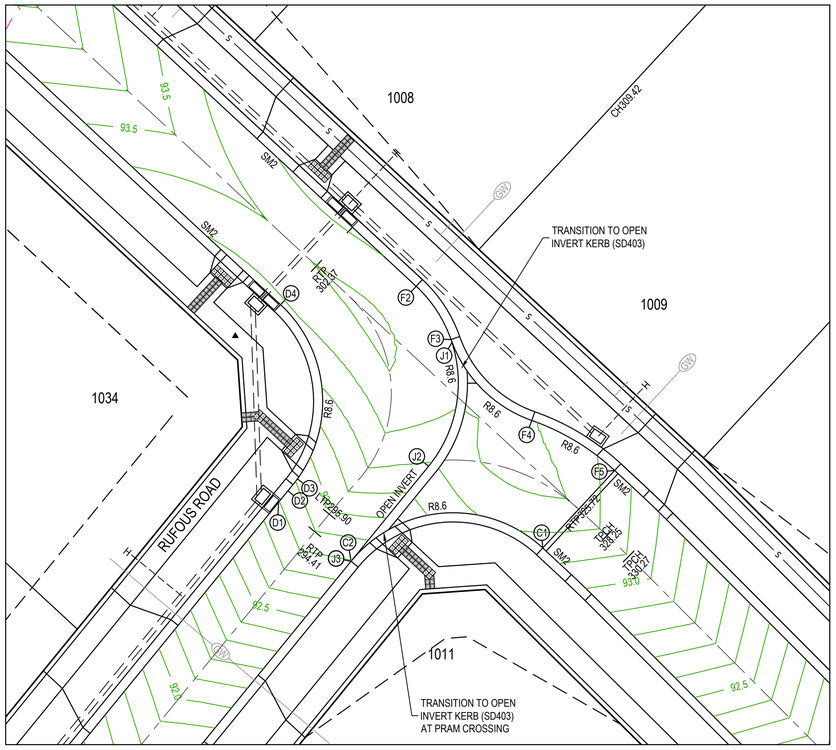
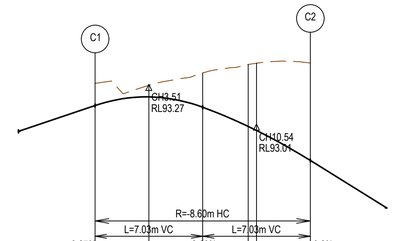
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Signage & Linemarking Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-171	08 of 39	2

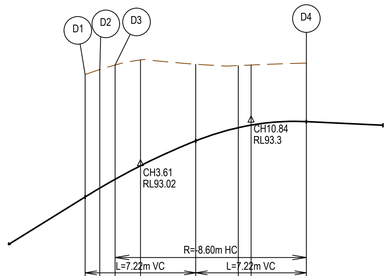
DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-171.dwg PRINTED BY: JN17034 on 02/05/2024 at 11:58:09 AM





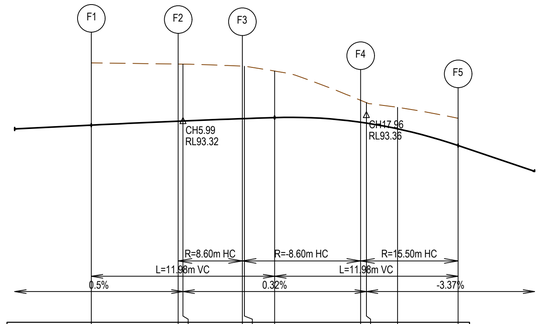
HORIZONTAL GEOMETRY						
VERTICAL GEOMETRY						
DATUM RL92						
DESIGN LEVEL	93.15	93.21	93.14	93.02 92.99	92.79	
EXISTING SURFACE	93.30	93.29	93.37	93.42 93.43	93.43	
NORTHING	5772256.84	5772258.65	5772259.12	5772258.17	5772255.97	
EASTING	338404.52	338401.54	338398.08	338394.72	338392.01	
CHAINAGE	0.00	3.51	7.03	10.00 10.54	14.06	

LIP LINE C



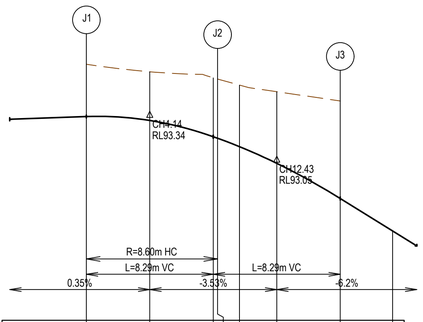
HORIZONTAL GEOMETRY							
VERTICAL GEOMETRY							
DATUM RL92							
DESIGN LEVEL	92.79	92.85	92.91	93.00	93.16	93.25 93.26	93.29
EXISTING SURFACE	93.59	93.63	93.66	93.69	93.66	93.65 93.66	93.67
NORTHING	5772259.83	5772260.57	5772261.35	5772262.78	5772266.27	5772269.79	5772272.72
EASTING	338387.28	338387.89	338388.51	338389.35	338390.16	338389.47	338387.41
CHAINAGE	0.00	0.96	1.96	3.61	7.22	10.00 10.84	14.45

LIP LINE D



HORIZONTAL GEOMETRY								
VERTICAL GEOMETRY								
DATUM RL92								
DESIGN LEVEL	93.29	93.31 93.31	93.33 93.33	93.34	93.31 93.30	93.26	93.15	
EXISTING SURFACE	93.69	93.69 93.69	93.67 93.67	93.64	93.45 93.43	93.40	93.33	
NORTHING	5772277.78	5772273.92 5772273.70	5772270.45	5772268.56	5772265.16 5772265.03		5772261.90	
EASTING	338392.10	338396.26 338396.49	338398.53	338399.46	338403.90 338404.16		338409.21	
CHAINAGE	0.00	5.67 5.99	9.86 10.00	11.98	17.59 17.96	20.00	23.95	

LIP LINE F



HORIZONTAL GEOMETRY							
VERTICAL GEOMETRY							
DATUM RL92							
DESIGN LEVEL	93.33	93.30	93.20 93.19	93.13	93.02	92.79	92.58
EXISTING SURFACE	93.67	93.62	93.58 93.57	93.53	93.49	93.43	
NORTHING	5772270.26	5772266.16	5772262.40 5772262.18		5772259.18	5772255.97	
EASTING	338398.59	338398.88	338397.24 338397.07		338394.63	338392.01	
CHAINAGE	0.00	4.14	8.29 8.57	10.00	12.43	16.58	20.00

LIP LINE J

LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

NOTES

1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
5. SHARE PATH THROUGH RESERVES TO FORM PART OF LANDSCAPE WORKS.

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N
PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

Scale 1:200 (0 2 4 8)
Scale H1:200, V1:20 (0 0.2 0.4 0.8)
SCALE AS SHOWN AT A1

N

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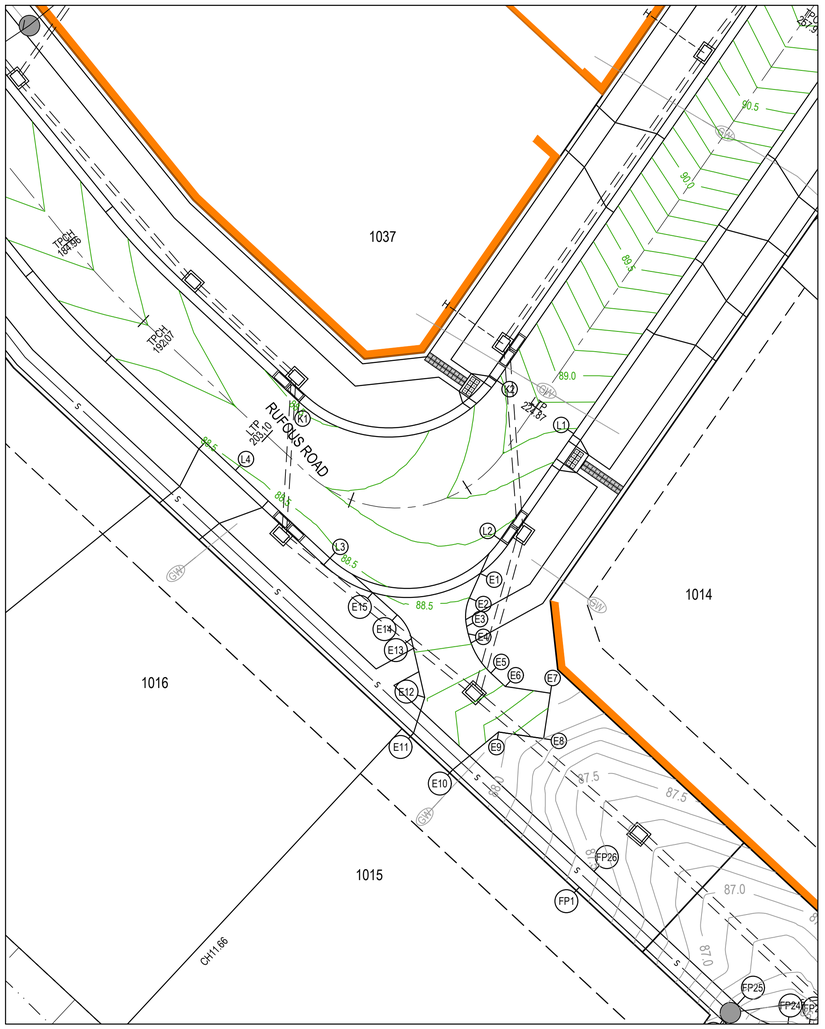
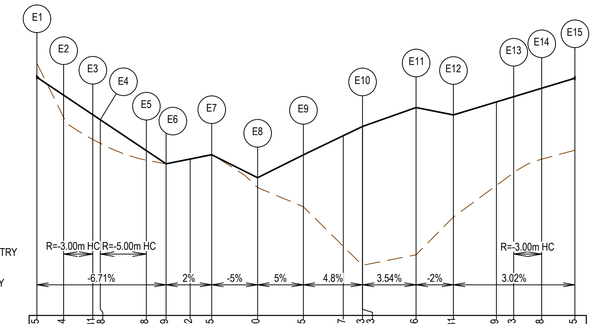
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Intersection Detail Plan - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-181	09 of 39	1





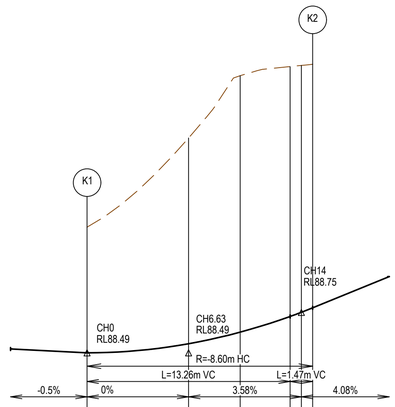
HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL87

	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15
DESIGN LEVEL	88.55	88.44	88.31 88.28	88.08	87.99	88.02	88.05	87.90	88.05	88.17	88.23 88.23	88.36	88.31	88.39	88.43	88.48	88.55
EXISTING SURFACE	88.65	88.29	88.15 88.12	88.01	87.99	88.02	88.05	87.83	87.71	87.45	87.33 87.33	87.40	87.64	87.85	87.93	88.02	88.08
NORTHING	5772191.51	5772189.92	5772188.06 5772187.58	5772185.01	5772184.14		5772183.70	5772180.73	5772181.17		5772178.71 5772178.72	5772181.10	5772183.42		5772187.26	5772188.81	5772190.26
EASTING	338344.25	338343.55	338343.37 338343.48	338344.95	338345.89		338348.84	338348.40	338345.45		338342.47 338342.47	338339.91	338340.64		338339.76	338338.84	338337.24
CHAINAGE	0.00	1.74	3.65 4.14	7.15	8.43	10.00	11.41	14.41	17.39	20.00	21.25 21.26	24.75	27.19	30.00	31.13	32.96	35.12

LIP LINE E



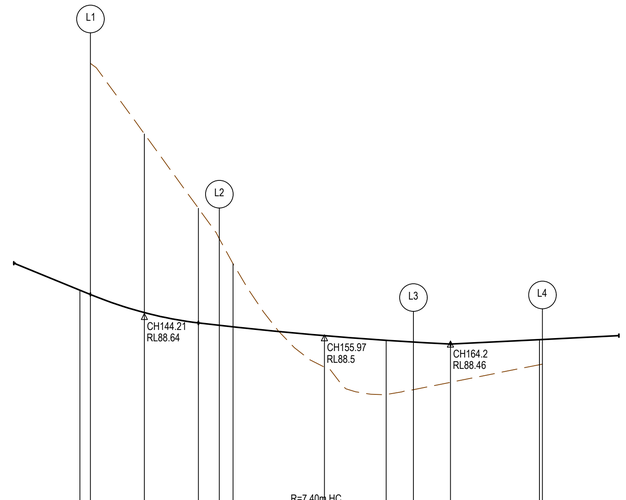
HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL88

	K1		K2		
DESIGN LEVEL	88.49	88.55	88.62	88.72 88.75 88.78
EXISTING SURFACE	89.31	89.89	90.30	90.36 90.36 90.37
NORTHING	5772202.72	5772200.42		5772202.98 5772203.53 5772204.12
EASTING	338332.43	338338.48		338344.41 338344.91 338345.35
CHAINAGE	0.00	6.63	10.00	13.26 14.00 14.73

LIP LINE K



HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL87

	L1		L2				L3		L4	
DESIGN LEVEL	88.81 88.76	88.66	88.60	88.58 88.57	88.51	88.48	88.47	88.46	88.49 88.49
EXISTING SURFACE	90.29	89.83	89.34	89.15 88.98	88.31	88.13	88.16	88.21	88.32 88.33
NORTHING	5772200.64	5772197.74	5772194.84	5772193.72	5772190.54		5772192.52	5772194.16	5772198.25
EASTING	338350.37	338348.35	338346.34	338345.57	338339.76		338334.45	338332.68	338328.28
CHAINAGE	140.00 140.88	144.21	147.73	149.10 150.00	155.97	160.00	161.78	164.20	170.00 170.20

LIP LINE L

LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

NOTES

1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
5. SHARE PATH THROUGH RESERVES TO FORM PART OF LANDSCAPE WORKS.

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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

Scale 1:200 (0 2 4 8)

Scale H1:200, V1:20 (0 0.2 0.4 0.8)

SCALE AS SHOWN AT A1

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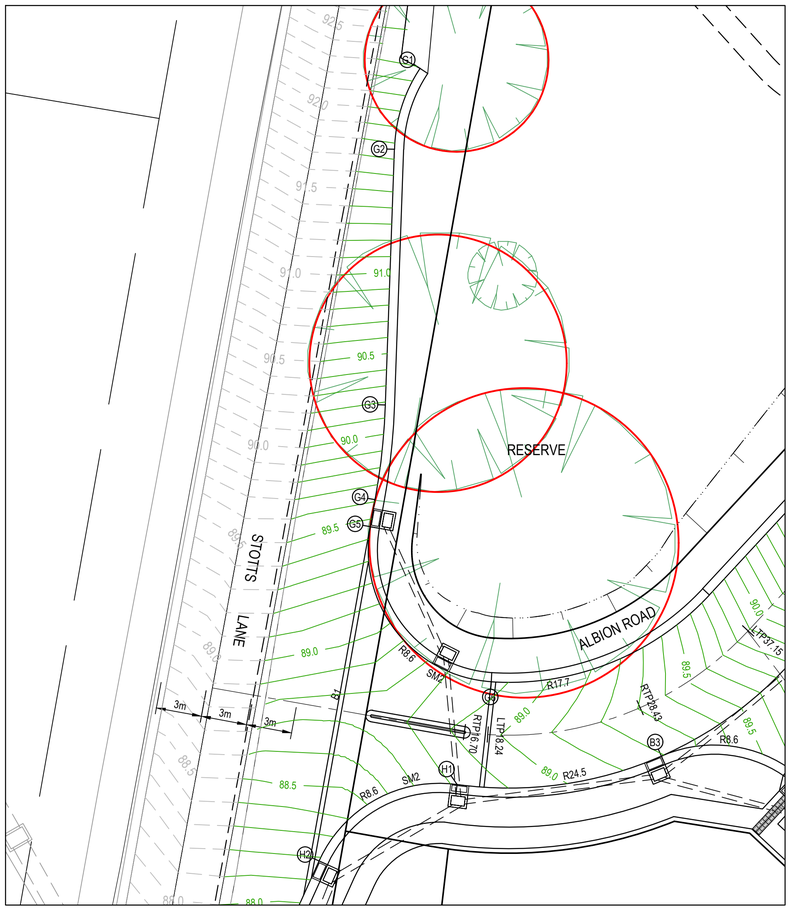
Frankston City Council
Road and Drainage
Intersection Detail Plan - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-182	10 of 39	1

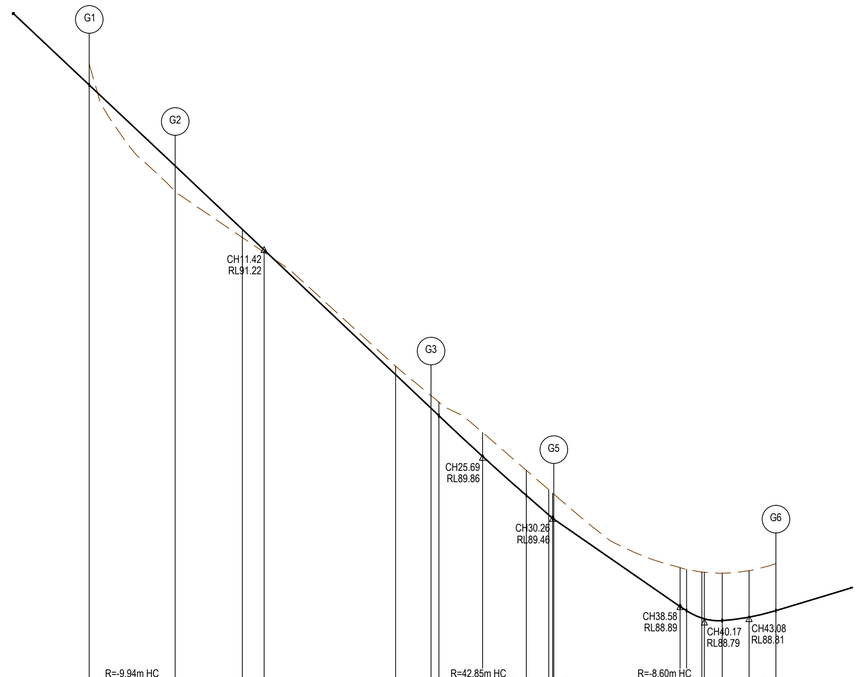
DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-182.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:00:06 PM



LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

◻═ ═ ═●═	STORMWATER DRAIN, PIT & PROPERTY INLET
◻═ ═ ═ ═	MAIN DRAIN
●—S—┬—■	SEWER & MAINTENANCE STRUCTURES
— — — — —H	HOUSE DRAIN
—GWR—	SERVICE CONDUITS
▦ ▤	TACTILE PAVERS
◻═ ═ ═●═	EXISTING STORMWATER DRAIN
◻═ ═ ═ ═	EXISTING MAIN DRAIN
○—Ex S —	EXISTING SEWER & MAINTENANCE STRUCTURES
—GWR—	EXISTING SERVICE CONDUITS
▦ ▤	EXISTING TACTILE PAVERS
◻—Fut D —●—	FUTURE STORMWATER DRAIN
◻═══	FUTURE MAIN DRAIN
○—FUT S —	FUTURE SEWER & MAINTENANCE STRUCTURES
— — — — —H	FUTURE HOUSE DRAIN
—GWR—	FUTURE SERVICE CONDUITS
▦ ▤	FUTURE TACTILE PAVERS
└─┘	EXISTING RETAINING WALL
└─┘	RETAINING WALL
└─┘	FUTURE RETAINING WALL
●●●●●	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
▲	PERMANENT SURVEY MARK
⅄	TEMPORARY BENCH MARK
═╤═╤═	PROPOSED DRIVEWAY & FOOTPATH



DATUM RL88

DESIGN LEVEL	EXISTING SURFACE	NORTHING	EASTING	CHAINAGE
92.29	92.43	5772388.25	338173.83	0.00
91.76	91.60	5772382.96	338172.16	5.61
91.35	91.30			10.00
91.21	91.20	5772377.17	338171.95	11.42
90.40	90.46			20.00
90.18	90.26	5772366.27	338171.57	22.32
90.13	90.22	5772365.76	338171.54	22.83
89.87	90.02	5772362.91	338171.31	25.69
89.61	89.78	5772360.09	338170.89	28.54
89.48	89.65			30.00
89.46	89.63	5772358.40	338170.59	30.26
89.46	89.62	5772358.33	338170.57	30.33
88.89	89.14	5772350.75	338172.91	38.58
88.86	89.13	5772350.45	338173.21	39.00
88.81	89.11			40.00
88.81	89.11	5772349.72	338174.12	40.17
88.79	89.10	5772349.12	338175.12	41.33
88.82	89.12	5772348.49	338176.75	43.08
88.86	89.17	5772348.20	338178.47	44.83

LIP LINE G

NOTES

1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
5. SHARE PATH THROUGH RESERVES TO FORM PART OF LANDSCAPE WORKS.

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.
PS906371N
PERMIT REF. NO.
182/2020/p

AS CONSTRUCTED

0 2 4 8
Scale 1:200

0 2 4 8
0 0.2 0.4 0.8
Scale H1:200, V1:20
SCALE AS SHOWN AT A1

N

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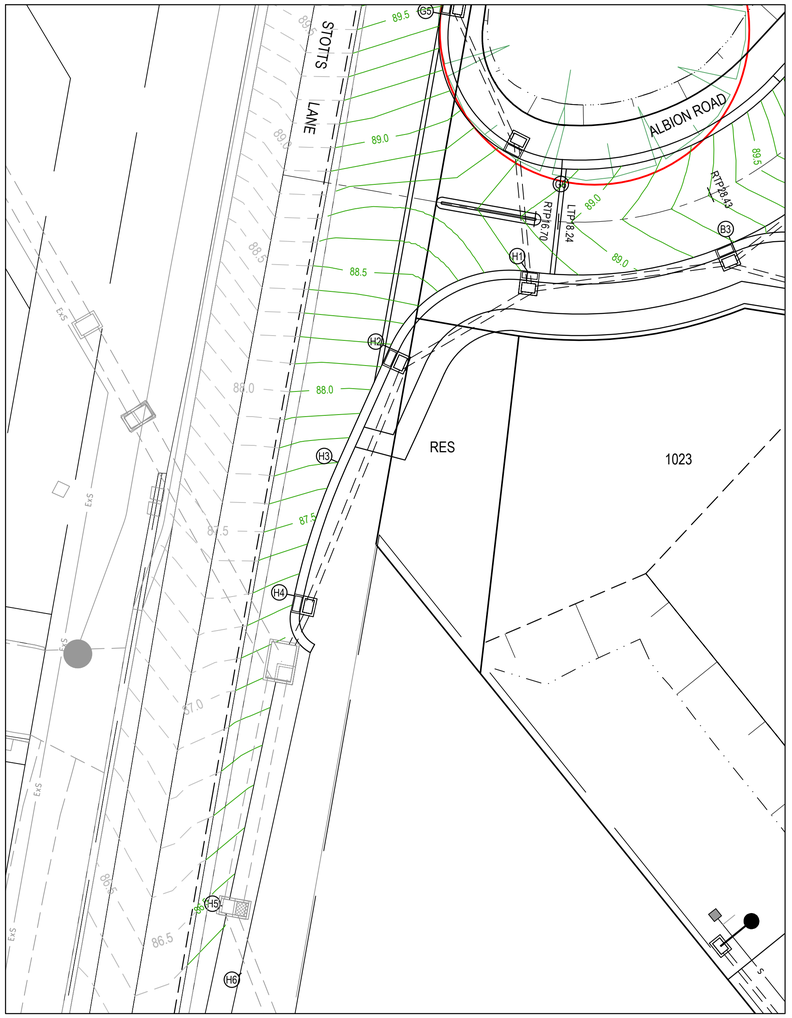
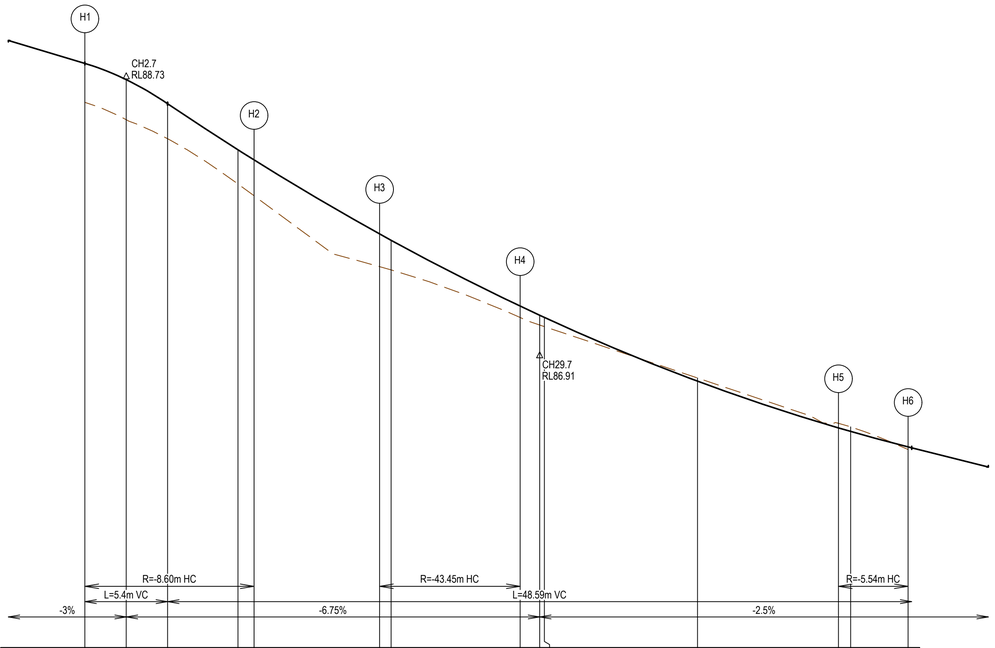
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Intersection Detail Plan - 3

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-183	11 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-183.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:01:10 PM





DESIGN LEVEL	88.81	88.71	88.55	88.25	88.18	87.70	87.66	87.23	87.17	87.16	86.74	86.43	86.41	86.31
EXISTING SURFACE	88.56	88.45	88.32	88.03	87.95	87.49	87.47	87.16	87.11	87.10	86.76	86.46	86.44	86.29
NORTHING	5772341.50	5772341.44	5772340.56	5772336.51		5772329.04		5772320.33	5772319.09			5772300.01		5772295.69
EASTING	338176.25	338173.57	338171.03	338167.24		338163.87		338161.01	338160.74			338156.64		338157.55
CHAINAGE	0.00	2.70	5.40	10.00	11.05	19.24	20.00	28.42	29.70	30.00	40.00	49.21	50.00	53.75

LIP LINE H

LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

NOTES

1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
5. SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

Scale 1:200 (0 2 4 8)

Scale H1:200, V1:20 (0 0.2 0.4 0.8)

SCALE AS SHOWN AT A1

N

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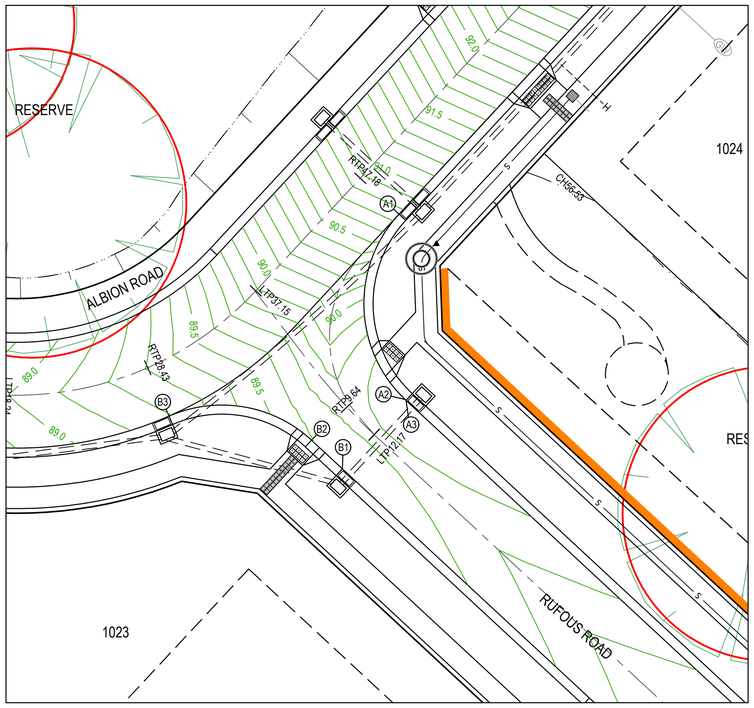
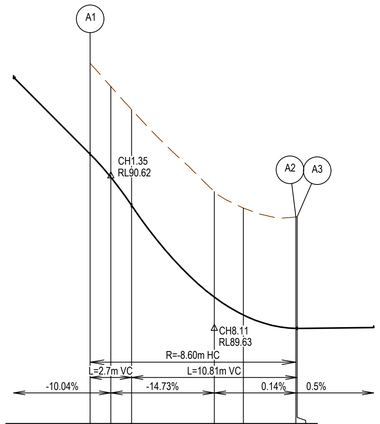
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Intersection Detail Plan - 4

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-184	12 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-184.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:02:12 PM





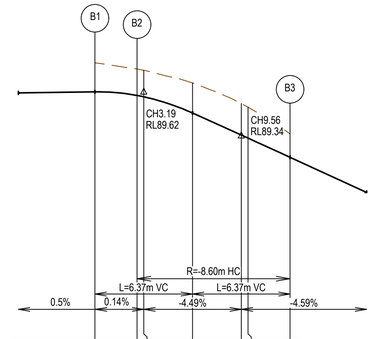
HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL89

DESIGN LEVEL	90.76	90.61	90.42	89.82	89.71	89.62 89.62
EXISTING SURFACE	91.35	91.20	91.05	90.51	90.41	90.35 90.35
NORTHING	5772356.53	5772355.48	5772354.30	5772349.02		5772344.43 5772344.38
EASTING	338204.60	338203.76	338203.10	338202.47		338205.00 338205.06
CHAINAGE	0.00	1.35	2.70	8.11	10.00	13.43 13.51

LIP LINE A



HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL88

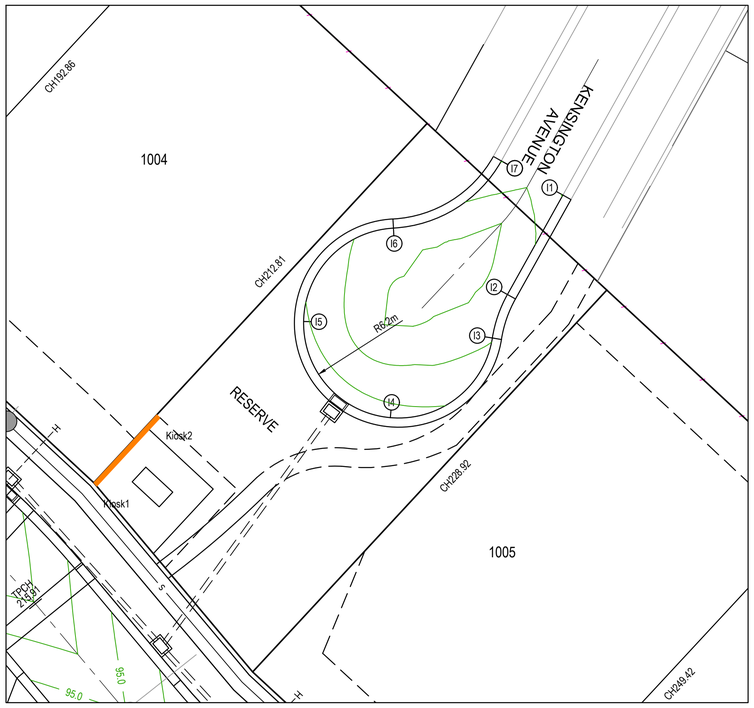
DESIGN LEVEL	89.62	89.60 89.53	89.48	89.34 89.32	89.19
EXISTING SURFACE	89.81	89.77 89.76	89.68	89.54 89.52	89.35
NORTHING	5772339.91	5772341.78 5772342.07	5772343.62	5772344.07	5772343.35
EASTING	338200.91	338198.89 338198.58	338195.80	338192.67	338189.58
CHAINAGE	0.00	2.75 3.19	6.37	9.56 10.00	12.74

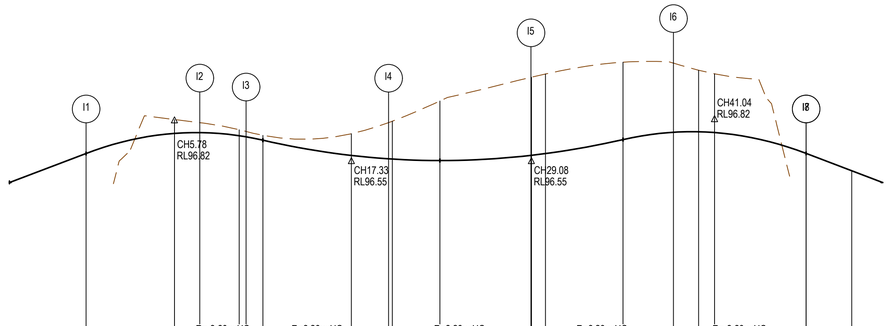
LIP LINE B

LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH





HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL95

DESIGN LEVEL	96.60	96.73	96.73	96.71 96.70	96.68	96.58	96.56 96.56	96.55	96.58 96.60 96.60	96.69	96.73	96.74	96.73	96.60 96.60	96.48
EXISTING SURFACE		96.82	96.80	96.75 96.74 96.71		96.73	96.80 96.81	96.94	97.09 97.09 97.12	97.19	97.19	97.14 97.12			
NORTHING	5772361.86	5772356.82	5772355.37	5772352.53 5772351.46		5772347.59	5772347.33	5772348.49	5772353.61 5772353.64	5772358.67	5772359.69	5772360.25		5772364.09 5772364.09	
EASTING	338361.97	338359.15	338358.35	338357.36 338357.09		338353.09	338350.70	338347.60	338345.04 338345.04	338347.81	338350.90	338353.52		338357.95 338357.95	
CHAINAGE	0.00	5.78	7.43	10.00 10.45 11.55		17.33	19.75 20.00	23.11	29.05 29.88 30.00	35.06	38.36	40.00 41.04		47.02 47.02	50.00

LIP LINE I

NOTES

1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

Scale 1:200 (0 2 4 8)

Scale H1:200, V1:20 (0 0.2 0.4 0.8)

SCALE AS SHOWN AT A1

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86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Intersection Detail Plan - 5

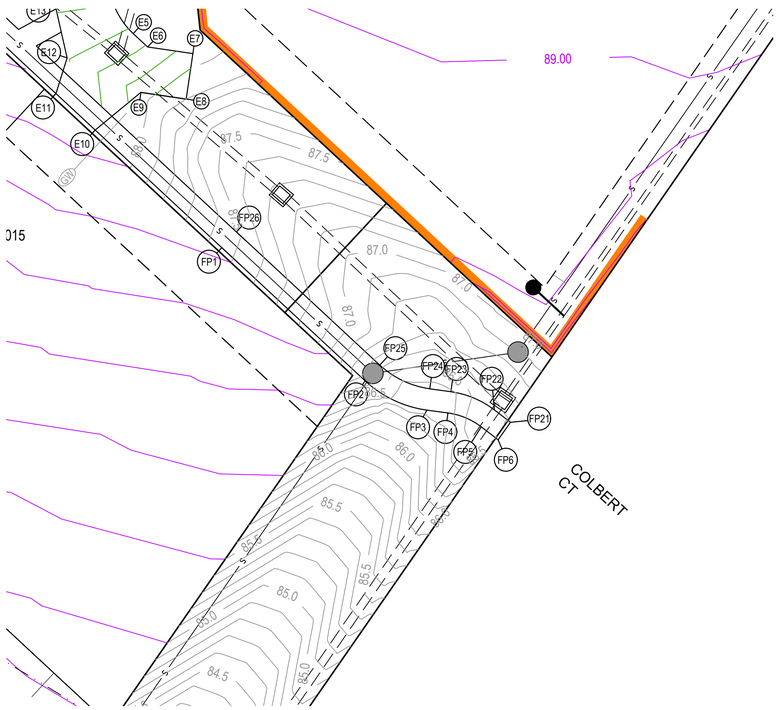
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-185	13 of 39	1

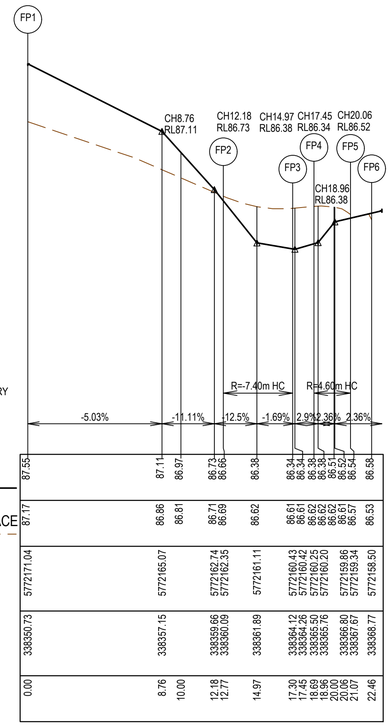
DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-185.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:03:15 PM

LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

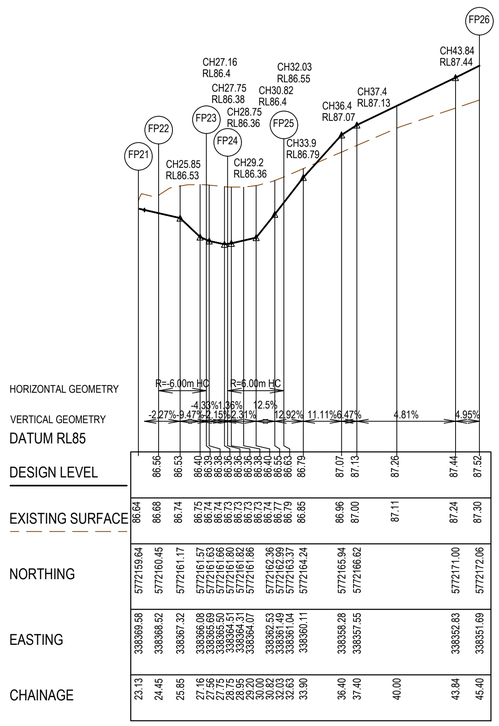
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH





DATUM RL85																							
DESIGN LEVEL	87.55			87.11		86.97		86.73	86.66		86.38		86.34	86.34	86.38	86.38	86.38	86.52	86.54		86.58
EXISTING SURFACE	87.17			86.86		86.81		86.71	86.69		86.62		86.61	86.61	86.62	86.62	86.62	86.61	86.57		86.53
NORTHING	5772171.04			5772165.07				5772162.74	5772162.35		5772161.11		5772160.43	5772160.42	5772160.25	5772160.20		5772159.86	5772159.34		5772158.50
EASTING	338350.73			338357.15				338359.66	338360.09		338361.89		338362.12	338362.26	338365.50	338365.76		338366.80	338367.67		338368.77
CHAINAGE	0.00			8.76		10.00		12.18	12.77		14.97		17.20	17.45	18.89	18.96		20.06	21.07		22.46

LIP LINE FP



DATUM RL85																							
DESIGN LEVEL		86.56	86.53		86.40	86.39	86.38	86.36	86.35	86.35	86.35	86.35	86.36	86.55	86.63		86.79		87.07	87.13		87.26		87.44	87.52
EXISTING SURFACE		86.64	86.68		86.74	86.75	86.74	86.74	86.73	86.73	86.73	86.73	86.73	86.80	86.79		86.85		86.96	87.00		87.11		87.24	87.30
NORTHING		5772159.64	5772160.45		5772161.17	5772161.57	5772161.63	5772161.66	5772161.80	5772161.82	5772161.86		5772162.36	5772162.39	5772163.37		5772164.24		5772165.94	5772166.62				5772171.00	5772172.06
EASTING		338359.58	338368.52		338367.32	338366.08	338365.69	338365.50	338364.51	338364.31	338364.07		338362.53	338361.49	338361.04		338360.11		338358.28	338357.55				338352.83	338351.69
CHAINAGE		23.13	24.45		25.85	27.16	27.46	27.75	28.75	29.05	29.20		30.00	32.03	32.63		33.90		36.40	37.40		40.00		43.84	45.40

LIP LINE FP2

NOTES

1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
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AS CONSTRUCTED

PLAN OF SUB. NO.	PS906371N
PERMIT REF. NO.	182/2020/p
RP ENG	.
RP ENG NO.	.
DATE	.

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

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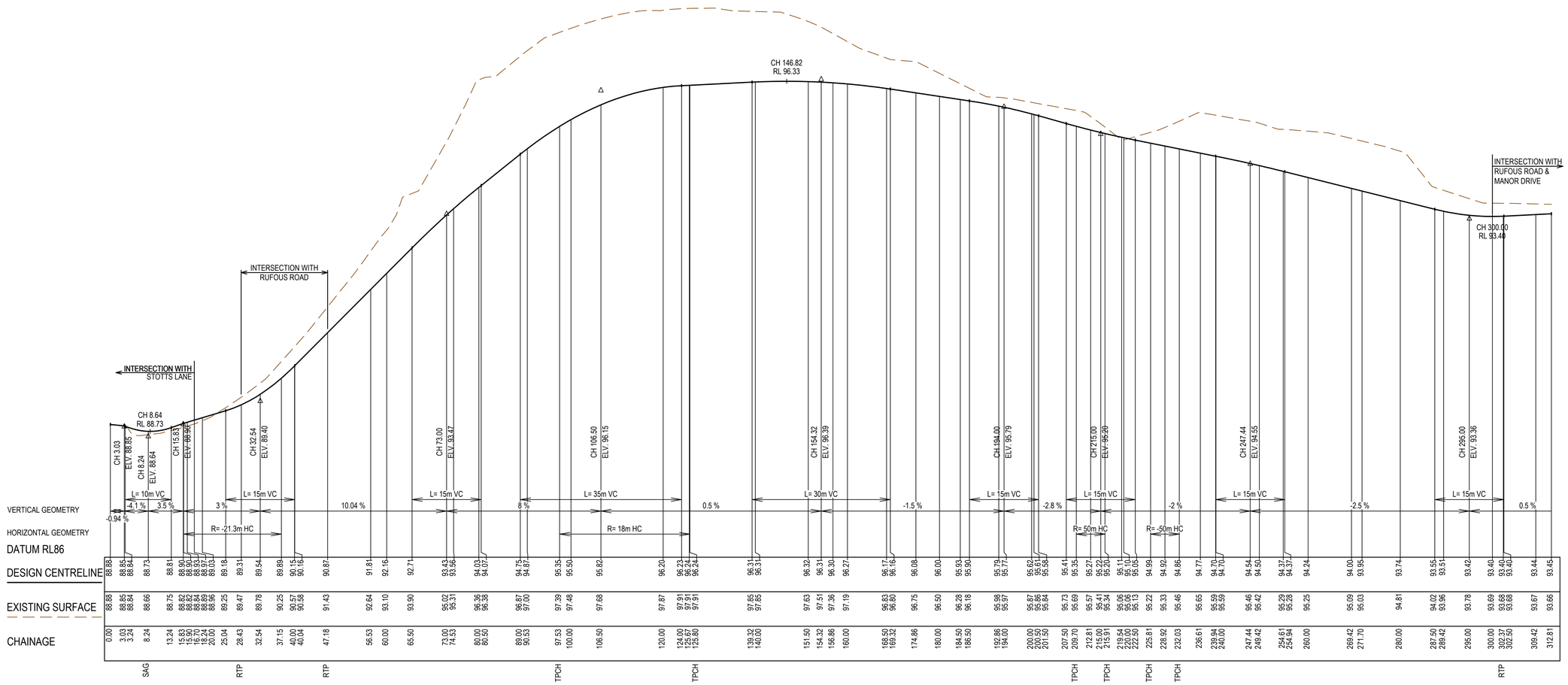
Frankston City Council
Road and Drainage
Intersection Detail Plan - 6
Footpath

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-186	14 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-186.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:03:59 PM



ALBION ROAD LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

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Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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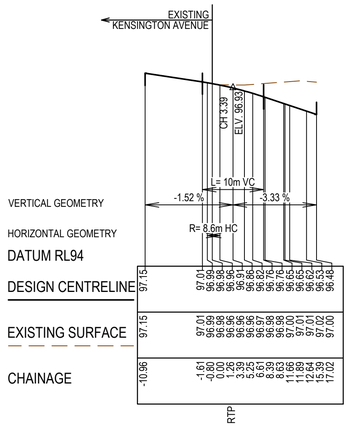
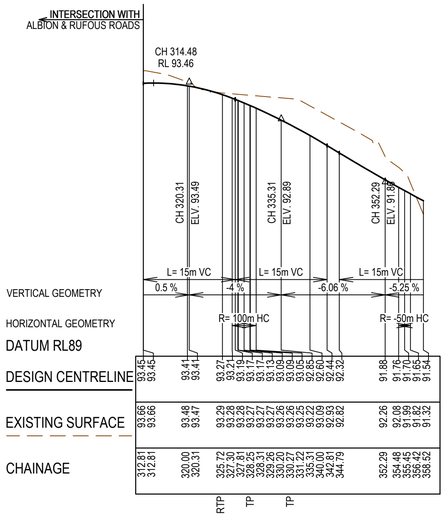
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-201	15 of 39	1

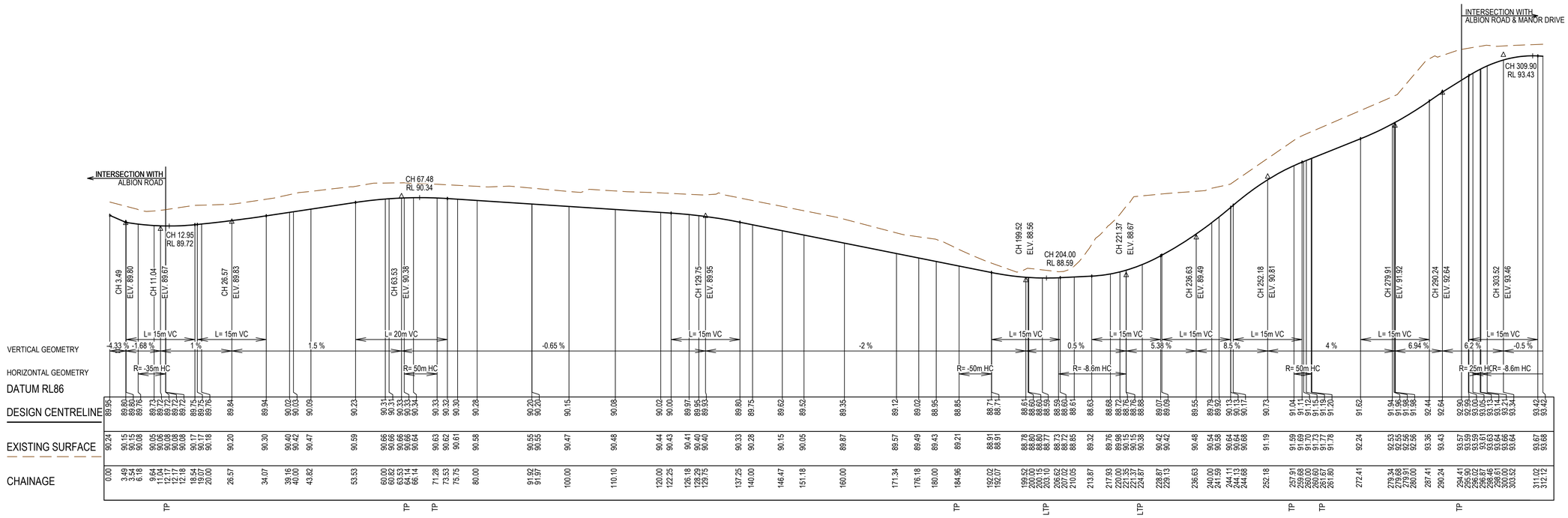
DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-201.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:04:34 PM



KENSINGTON AVENUE LONGITUDINAL SECTION



MANOR DRIVE LONGITUDINAL SECTION



RUFOUS ROAD LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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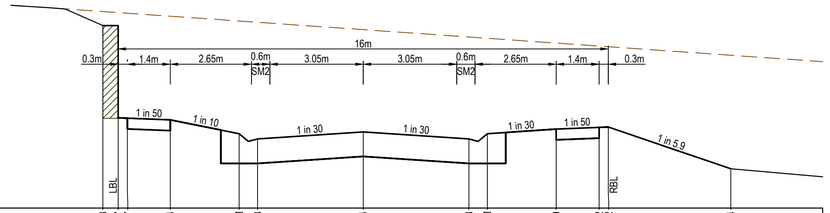
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-202	16 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-202.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:05:14 PM

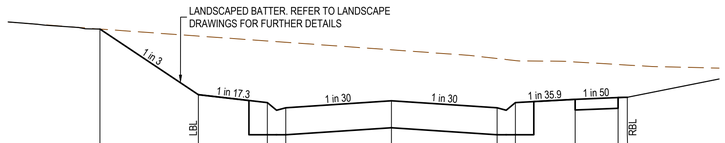
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

LEGEND
- EXISTING SURFACE
- DESIGN LINE
- RETAINING WALL - ROCK
- RETAINING WALL - CONCRETE SLEEPER



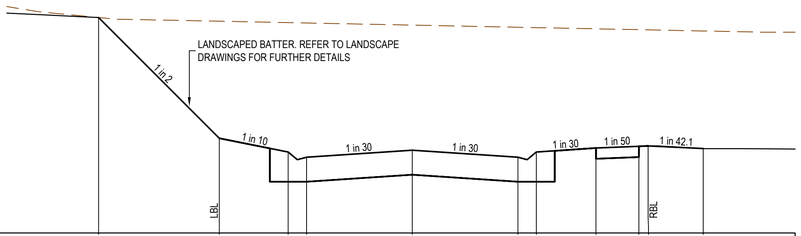
DATUM95.0																		
DESIGN SURFACE	97.98	96.47 96.47	96.44	96.21	96.13	96.24	96.13	96.21	96.29	96.32 96.32	95.64
EXISTING SURFACE	98.21	98.19 98.18	98.13	98.05	98.03	97.91	97.79	97.77	97.69	97.64 97.63	97.49
OFFSET	-8.50	-9.00 -7.70	-6.30	-4.05	-3.45	0.00	3.45	4.05	6.30	7.70 8.00	12.00

CH 125.67



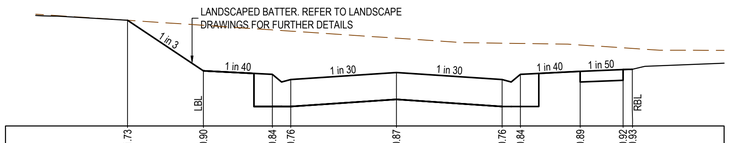
DATUM91.0										
DESIGN SURFACE	92.98	91.91	91.78 91.70	91.81	91.70 91.78	91.84	91.86 91.87
EXISTING SURFACE	92.98	92.87	92.79 92.77	92.64	92.50 92.47	92.45	92.40 92.40
OFFSET	-9.51	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.00	7.40 7.70

CH 56.53



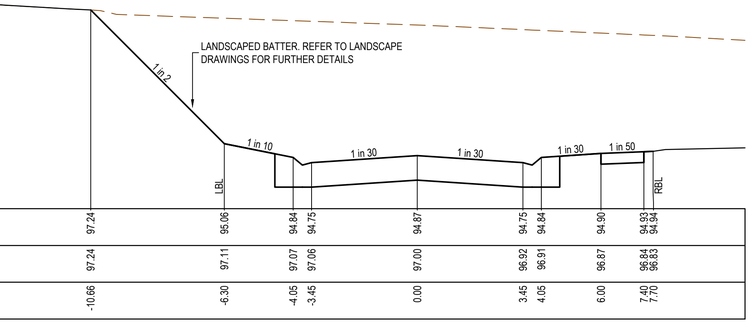
DATUM94.0									
DESIGN SURFACE	97.52	95.55	95.32 95.24	95.35	95.24 95.32	95.39	95.41 95.42	95.38
EXISTING SURFACE	97.52	97.46	97.43 97.43	97.39	97.36 97.35	97.33	97.32 97.31	97.30
OFFSET	-10.24	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.00	7.40 7.70	9.50

CH 97.53



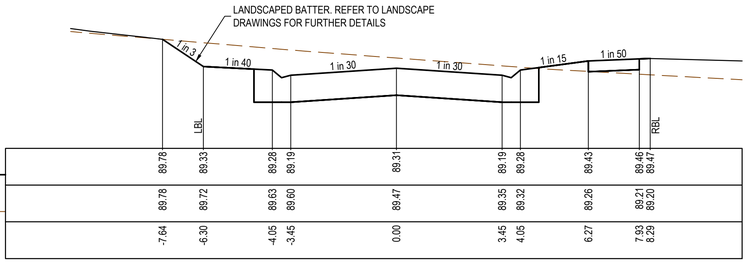
DATUM90.0								
DESIGN SURFACE	91.73	90.90	90.84 90.76	90.87	90.76 90.84	90.89	90.92 90.93
EXISTING SURFACE	91.73	91.64	91.57 91.55	91.43	91.35 91.35	91.32	91.28 91.27
OFFSET	-8.78	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.00	7.40 7.70

CH 47.18



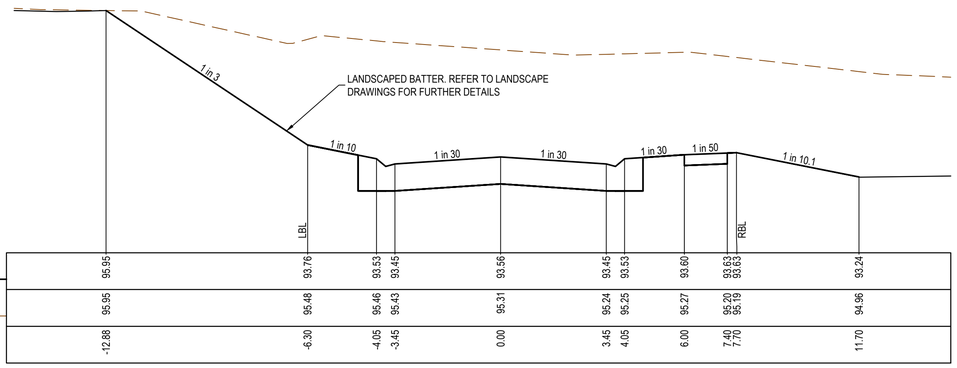
DATUM94.0									
DESIGN SURFACE	97.24	95.06	94.84 94.75	94.87	94.75 94.84	94.90	94.93 94.94
EXISTING SURFACE	97.24	97.11	97.07 97.06	97.00	96.92 96.91	96.87	96.84 96.83
OFFSET	-10.66	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.00	7.40 7.70

CH 90.53



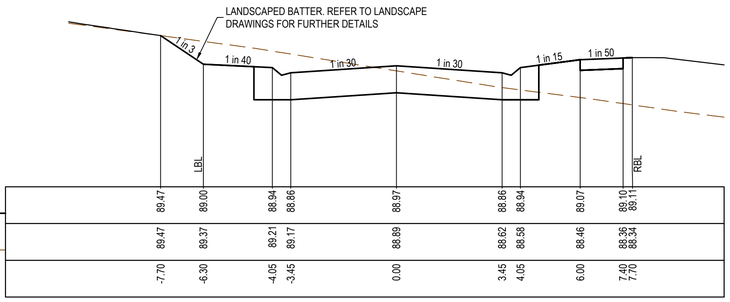
DATUM88.0									
DESIGN SURFACE	89.78	89.33	89.28 89.19	89.31	89.19 89.28	89.43	89.46 89.47
EXISTING SURFACE	89.78	89.72	89.63 89.60	89.47	89.35 89.32	89.26	89.21 89.20
OFFSET	-7.64	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.27	7.93 8.29

CH 28.43



DATUM92.0									
DESIGN SURFACE	95.95	93.76	93.53 93.45	93.56	93.45 93.53	93.60	93.63 93.63	93.24
EXISTING SURFACE	95.95	95.48	95.46 95.43	95.31	95.24 95.25	95.27	95.20 95.19	94.96
OFFSET	-12.88	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.00	7.40 7.70	11.70

CH 74.53



DATUM87.0									
DESIGN SURFACE	89.47	89.00	88.94 88.86	88.97	88.86 88.94	89.07	89.10 89.11
EXISTING SURFACE	89.47	89.37	89.21 89.17	88.89	88.62 88.58	88.46	88.36 88.34
OFFSET	-7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.00	7.40 7.70

CH 18.24

AS CONSTRUCTED PLANS

The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

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AS CONSTRUCTED

PLAN OF SUB. NO. PS906371N
PERMIT REF. NO. 182/2020/p

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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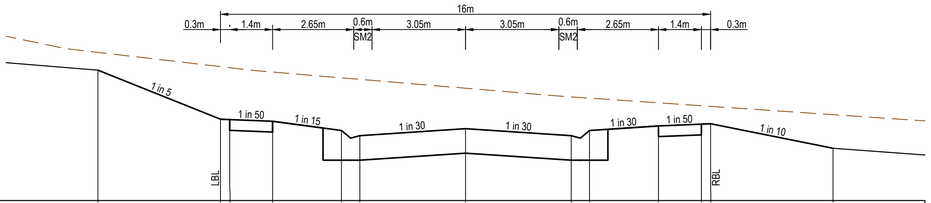
Frankston City Council
Road and Drainage
Cross Sections: Albion Road
Ch 18.24 - Ch 125.67

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-251	17 of 39	2

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-251.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:05:50 PM

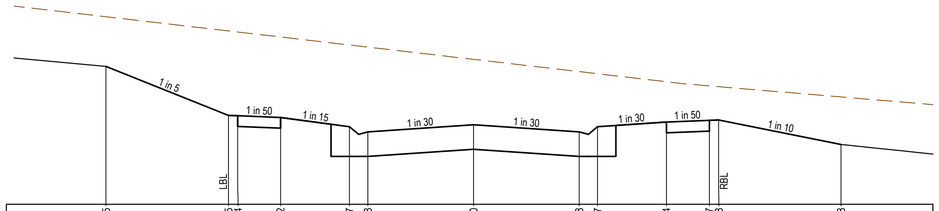
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

LEGEND
- EXISTING SURFACE
- DESIGN LINE
- RETAINING WALL - ROCK
- RETAINING WALL - CONCRETE SLEEPER



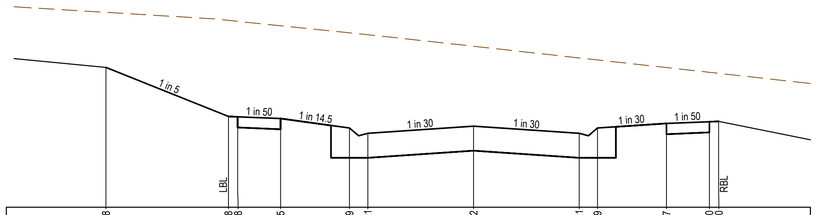
DATUM95.0											
DESIGN SURFACE	97.13	96.33 96.32	96.29	96.14 96.06	96.17	96.06 96.14	96.22	96.25 96.25	95.85		
EXISTING SURFACE	97.42	97.19 97.17	97.10	97.00 96.98	96.83	96.69 96.67	96.59	96.55 96.54	96.40		
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00		

CH 168.50



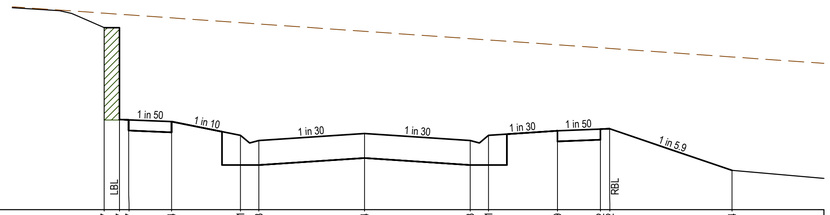
DATUM95.0											
DESIGN SURFACE	97.25	96.45 96.44	96.42	96.27 96.18	96.30	96.18 96.27	96.34	96.37 96.38	95.98		
EXISTING SURFACE	98.06	97.83 97.81	97.73	97.60 97.56	97.36	97.16 97.13	97.00	96.93 96.92	96.75		
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00		

CH 156.86



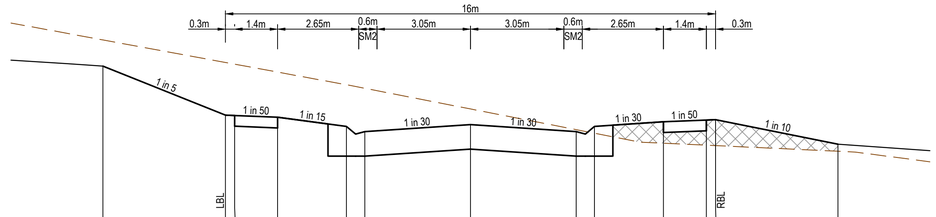
DATUM95.0											
DESIGN SURFACE	97.28	96.48 96.48	96.45	96.29 96.21	96.32	96.21 96.29	96.37	96.40 96.40			
EXISTING SURFACE	98.18	98.05 98.03	97.96	97.85 97.82	97.63	97.44 97.40	97.28	97.20 97.19			
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00			

CH 151.50



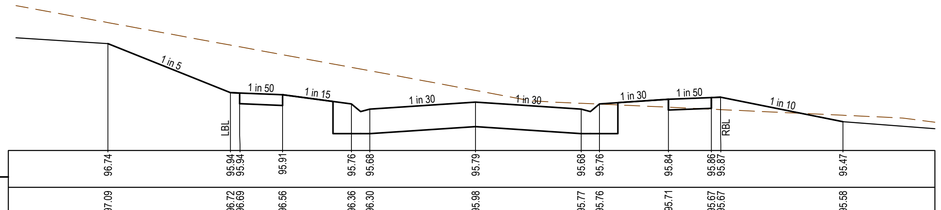
DATUM95.0											
DESIGN SURFACE	97.97	96.47 96.47	96.44	96.21 96.13	96.24	96.13 96.21	96.29	96.32 96.32	95.64		
EXISTING SURFACE	98.21	98.19 98.18	98.13	98.05 98.03	97.91	97.79 97.77	97.69	97.64 97.63	97.49		
OFFSET	-8.50	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00		

CH 125.80



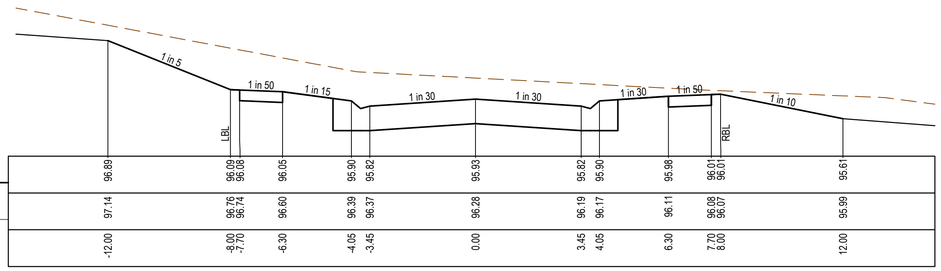
DATUM94.0											
DESIGN SURFACE	96.56	95.76 95.76	95.73	95.58 95.49	95.61	95.49 95.58	95.65	95.68 95.69	95.29		
EXISTING SURFACE	96.99	96.62 96.59	96.46	96.26 96.20	95.86	95.53 95.47	95.30	95.27 95.26	95.17		
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00		

CH 200.50



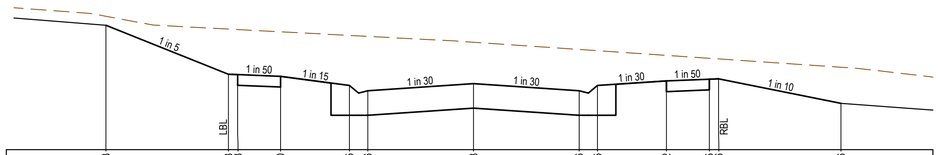
DATUM95.0											
DESIGN SURFACE	96.74	95.94 95.94	95.91	95.76 95.68	95.79	95.68 95.76	95.84	95.86 95.87	95.47		
EXISTING SURFACE	97.09	96.72 96.69	96.56	96.36 96.30	95.98	95.77 95.76	95.71	95.67 95.67	95.58		
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00		

CH 192.86



DATUM95.0											
DESIGN SURFACE	96.89	96.09 96.08	96.05	95.90 95.82	95.93	95.82 95.90	95.98	96.01 96.01	95.61		
EXISTING SURFACE	97.14	96.76 96.74	96.60	96.39 96.37	96.28	96.19 96.17	96.11	96.08 96.07	95.99		
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00		

CH 184.50



DATUM95.0											
DESIGN SURFACE	97.03	96.23 96.23	96.20	96.05 95.96	96.08	95.96 96.05	96.12	96.15 96.16	95.76		
EXISTING SURFACE	97.18	96.97 96.96	96.92	96.87 96.85	96.75	96.64 96.62	96.54	96.49 96.48	96.35		
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00		

CH 174.86

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N
PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
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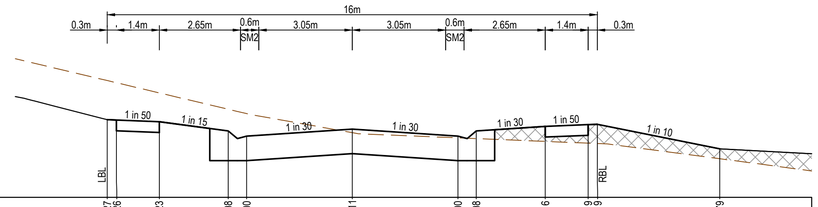
Frankston City Council
Road and Drainage
Cross Sections: Albion Road
Ch 125.80 - Ch 200.50

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-252	18 of 39	1

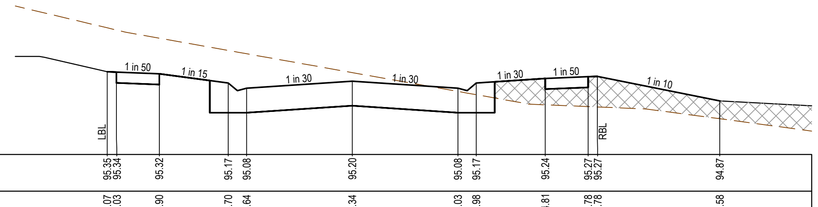
DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-252.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:06:29 PM

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



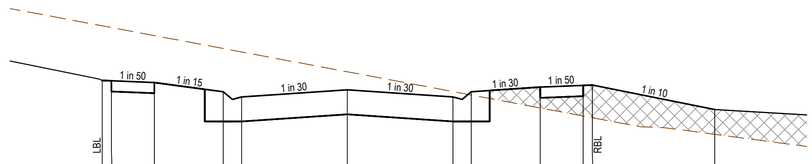
DESIGN SURFACE	95.27 95.26	95.23	95.08 95.00	95.11	95.00 95.08	95.16	95.19 95.19	94.79
EXISTING SURFACE	95.91 95.87	95.71	95.44 95.37	95.06	94.97 94.96	94.91	94.89 94.88	94.63
OFFSET	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00

CH 219.54



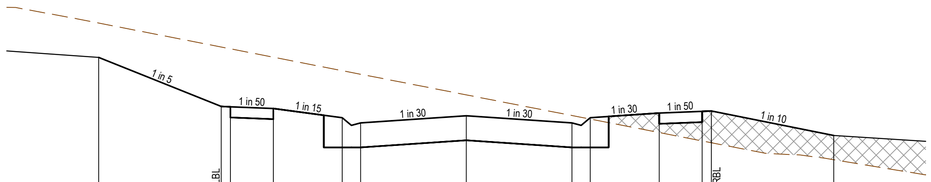
DESIGN SURFACE	95.35 95.34	95.32	95.17 95.08	95.20	95.08 95.17	95.24	95.27 95.27	94.87
EXISTING SURFACE	96.07 96.03	95.90	95.70 95.64	95.34	95.03 94.98	94.81	94.78 94.78	94.58
OFFSET	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00

CH 215.91



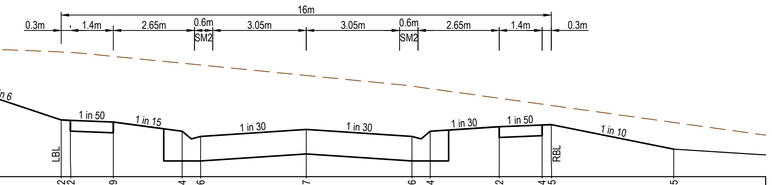
DESIGN SURFACE	95.43 95.42	95.39	95.24 95.16	95.27	95.16 95.24	95.32	95.34 95.35	94.95
EXISTING SURFACE	96.32 96.29	96.16	95.95 95.89	95.57	95.24 95.19	94.98	94.85 94.82	94.55
OFFSET	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00

CH 212.81



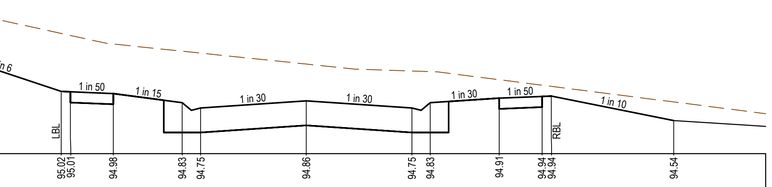
DESIGN SURFACE	96.31	95.51 95.50	95.47	95.32 95.24	95.33	95.24 95.32	95.40	95.43 95.43	95.03
EXISTING SURFACE	96.87	96.48 96.45	96.31	96.09 96.03	95.69	95.36 95.30	95.08	94.94 94.91	94.64
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00

CH 209.70



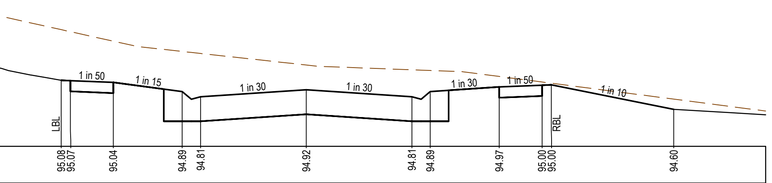
DESIGN SURFACE	95.59	94.92 94.92	94.89	94.74 94.66	94.77	94.66 94.74	94.82	94.84 94.85	94.45
EXISTING SURFACE	96.11	96.04 96.03	95.96	95.85 95.82	95.65	95.48 95.44	95.28	95.18 95.16	94.88
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00

CH 236.61



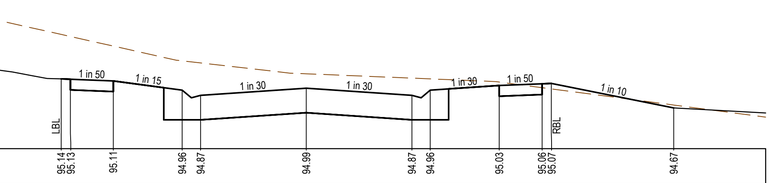
DESIGN SURFACE	95.68	95.02 95.01	94.98	94.83 94.75	94.86	94.75 94.83	94.91	94.94 94.94	94.54
EXISTING SURFACE	96.33	95.96 95.93	95.79	95.67 95.64	95.46	95.35 95.34	95.21	95.12 95.10	94.84
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00

CH 232.03



DESIGN SURFACE	95.08 95.07	95.04	94.89 94.81	94.92	94.81 94.89	94.97	95.00 95.00	94.60
EXISTING SURFACE	95.90 95.87	95.72	95.55 95.52	95.33	95.25 95.24	95.14	95.05 95.03	94.77
OFFSET	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00

CH 228.92



DESIGN SURFACE	95.14 95.13	95.11	94.96 94.87	94.99	94.87 94.96	95.03	95.06 95.07	94.67
EXISTING SURFACE	95.86 95.83	95.67	95.43 95.40	95.22	95.15 95.14	95.09	95.00 94.98	94.71
OFFSET	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00

CH 225.81

AS CONSTRUCTED PLANS

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PERMIT REF. NO.
182/2020/p

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

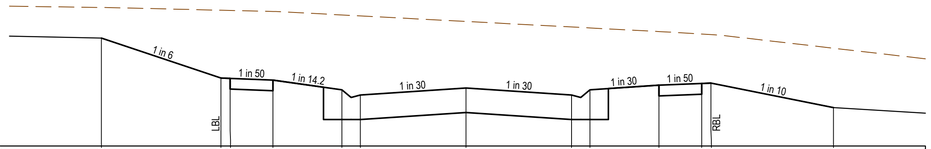
PASKGROUP™ ESTABLISHED 1969

86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Cross Sections: Albion Road
Ch 209.70 - Ch 236.61

MELWAYS REF.	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-253	19 of 39	2

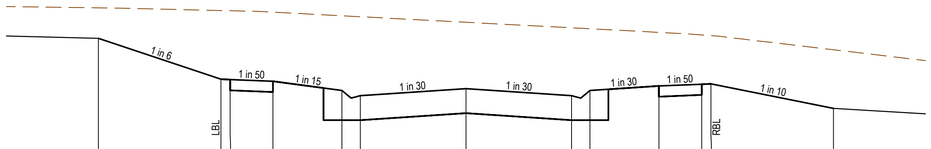
DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-253.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:07:04 PM

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



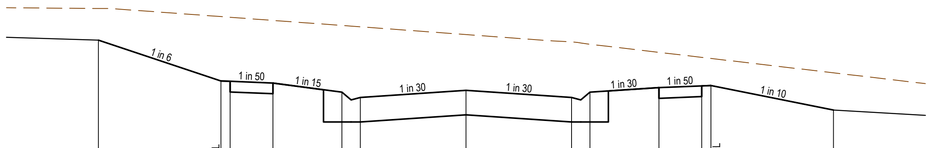
DATUM93.0										
DESIGN SURFACE	94.76	94.11 94.10	94.08	93.92 93.83	93.95	93.83 93.92	93.99	94.02 94.03	93.63	
EXISTING SURFACE	95.26	95.22 95.21	95.20	95.14 95.12	95.03	94.94 94.93	94.87	94.83 94.82	94.60	
OFFSET	-11.90	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00	

CH 271.70



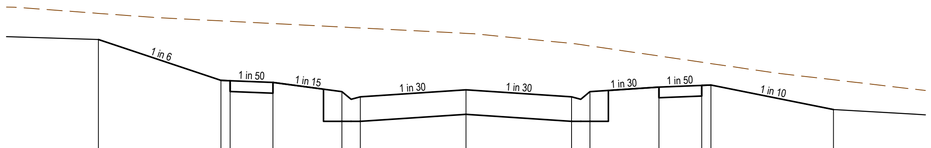
DATUM93.0										
DESIGN SURFACE	94.83	94.16 94.15	94.12	93.97 93.89	94.00	93.89 93.97	94.05	94.08 94.08	93.68	
EXISTING SURFACE	95.32	95.28 95.26	95.25	95.19 95.18	95.09	95.00 94.98	94.92	94.88 94.87	94.64	
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00	

CH 269.42



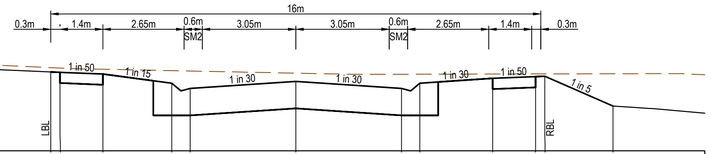
DATUM93.0										
DESIGN SURFACE	95.20	94.53 94.52	94.49	94.34 94.26	94.37	94.26 94.34	94.42	94.45 94.45	94.05	
EXISTING SURFACE	95.71	95.58 95.57	95.52	95.43 95.41	95.29	95.17 95.13	95.00	94.91 94.90	94.66	
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00	

CH 254.61



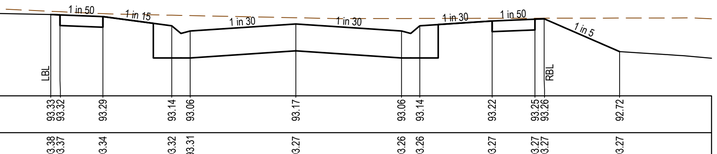
DATUM93.0										
DESIGN SURFACE	95.32	94.65 94.63	94.62	94.47 94.38	94.50	94.38 94.47	94.54	94.57 94.58	94.18	
EXISTING SURFACE	95.75	95.63 95.62	95.58	95.52 95.51	95.42	95.26 95.22	95.05	94.95 94.93	94.66	
OFFSET	-12.00	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00	

CH 249.42



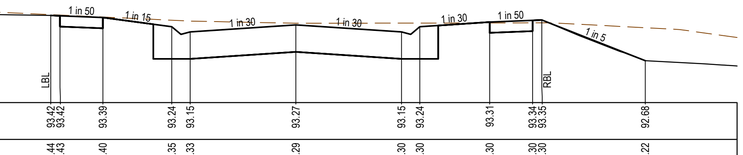
DATUM92.0										
DESIGN SURFACE	93.29 93.28	93.25	93.10 93.02	93.13	93.02 93.10	93.18	93.21 93.22	92.73		
EXISTING SURFACE	93.36 93.35	93.33	93.31 93.30	93.27	93.25 93.25	93.25	93.25 93.25	93.26		
OFFSET	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.43	7.83 8.13	10.35		

CH 329.26



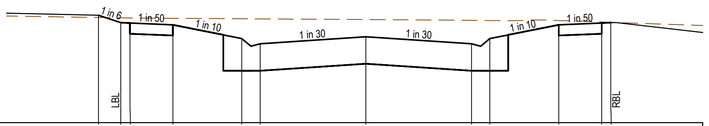
DATUM92.0										
DESIGN SURFACE	93.33 93.32	93.29	93.14 93.06	93.17	93.06 93.14	93.22	93.25 93.26	92.72		
EXISTING SURFACE	93.38 93.37	93.34	93.32 93.31	93.27	93.26 93.26	93.27	93.27 93.27	93.27		
OFFSET	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.41	7.81 8.11	10.57		

CH 328.25



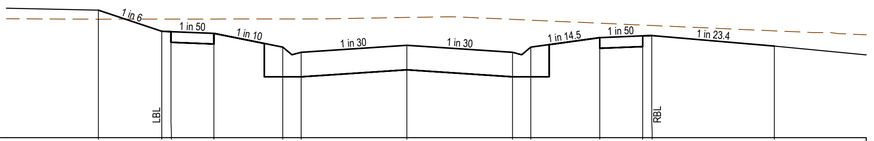
DATUM92.0										
DESIGN SURFACE	93.42 93.42	93.39	93.24 93.15	93.27	93.15 93.24	93.31	93.34 93.35	92.68		
EXISTING SURFACE	93.44 93.43	93.40	93.35 93.33	93.29	93.30 93.30	93.30	93.30 93.30	93.22		
OFFSET	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.33	7.73 8.03	11.41		

CH 325.72



DATUM92.0										
DESIGN SURFACE	93.75	93.63 93.62	93.60	93.37 93.29	93.40	93.29 93.37	93.60	93.62 93.63		
EXISTING SURFACE	93.72	93.71 93.71	93.70	93.70 93.69	93.68	93.67 93.67	93.67	93.64 93.64		
OFFSET	-8.73	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00		

CH 302.37



DATUM92.0										
DESIGN SURFACE	94.08	93.74 93.73	93.70	93.48 93.39	93.51	93.39 93.48	93.63	93.66 93.67	93.50	
EXISTING SURFACE	93.93	93.94 93.94	93.94	93.94 93.94	93.96	93.93 93.92	93.87	93.84 93.83	93.74	
OFFSET	-10.07	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00	12.00	

CH 289.42

AS CONSTRUCTED PLANS

The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

Quality Management - ISO 9001 · OHS Management - AS/NZS 4801 · Environmental Management - ISO 14001
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PLAN OF SUB. NO. PS906371N
PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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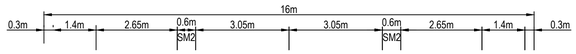
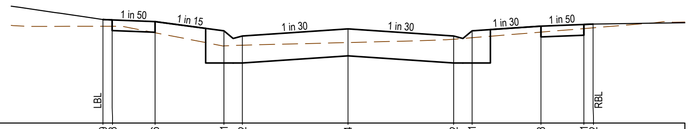
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Cross Sections: Albion Road
Ch 249.42 - Ch 329.26

MELWAYS REF.	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-254	20 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-254.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:07:40 PM

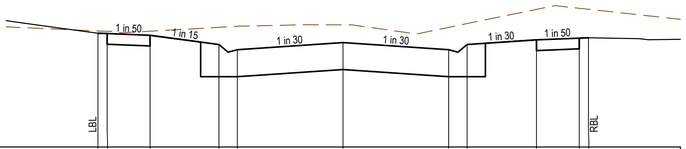
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE





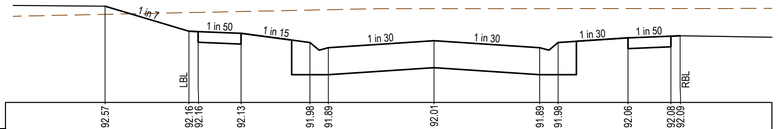
DATUM90.0										
DESIGN SURFACE	91.69 91.68	91.66	91.51 91.42	91.54	91.42 91.51	91.58	91.61 91.62			
EXISTING SURFACE	91.58 91.58	91.47	91.26 91.27	91.31	91.37 91.39	91.49	91.54 91.55			
OFFSET	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.30	7.70 8.00			

CH 358.52



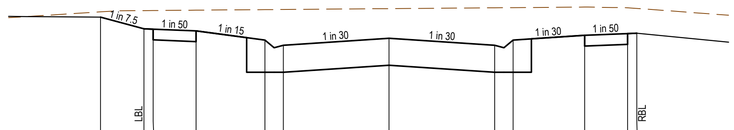
DATUM90.0										
DESIGN SURFACE	91.86 91.85	91.82	91.67 91.59	91.70	91.59 91.67	91.75	91.78 91.78			
EXISTING SURFACE	91.89 91.89	91.89	91.95 91.97	91.99	91.95 92.01	92.24	92.26 92.25			
OFFSET	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.31	7.71 8.01			

CH 355.45



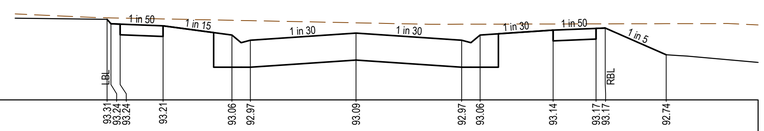
DATUM91.0										
DESIGN SURFACE	92.57	92.16 92.16	92.13	91.98 91.89	92.01	91.89 91.98	92.06	92.08 92.09		
EXISTING SURFACE	92.44	92.47 92.47	92.48	92.51 92.51	92.53	92.53 92.53	92.53	92.53 92.53		
OFFSET	-10.74	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.33	7.73 8.03		

CH 350.00



DATUM91.0										
DESIGN SURFACE	92.95	92.76 92.75	92.72	92.57 92.49	92.60	92.49 92.57	92.65	92.68 92.68		
EXISTING SURFACE	93.03	93.05 93.05	93.06	93.07 93.07	93.09	93.10 93.10	93.11	93.10 93.09		
OFFSET	-9.42	-8.00 -7.70	-6.30	-4.05 -3.45	0.00	3.45 4.05	6.39	7.79 8.09		

CH 340.00



DATUM92.0										
DESIGN SURFACE	93.31 93.24 93.24	93.21	93.06	92.97	93.09	92.97	93.06	93.14	93.17 93.17	92.74
EXISTING SURFACE	93.34 93.34 93.34	93.32	93.30	93.29	93.26	93.23	93.24	93.24	93.24 93.24	93.24
OFFSET	-8.13 -8.00 -7.70	-6.30	-4.05	-3.45	0.00	3.45	4.05	6.44	7.84 8.14	10.13

CH 330.27

AS CONSTRUCTED PLANS

The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

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PLAN OF SUB. NO. PS906371N
PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

SMEC
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Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

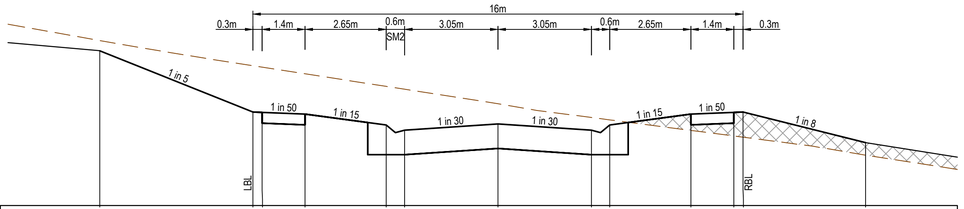
PASKGROUP™ ESTABLISHED 1969

86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Cross Sections: Albion Road
Ch 330.27 - Ch 358.52

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-255	21 of 39	1

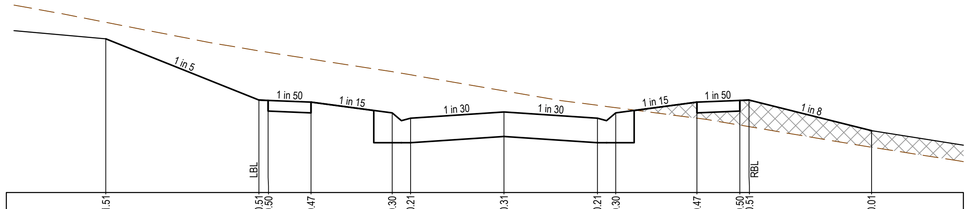
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

LEGEND
- EXISTING SURFACE
- DESIGN LINE
- RETAINING WALL - ROCK
- RETAINING WALL - CONCRETE SLEEPER



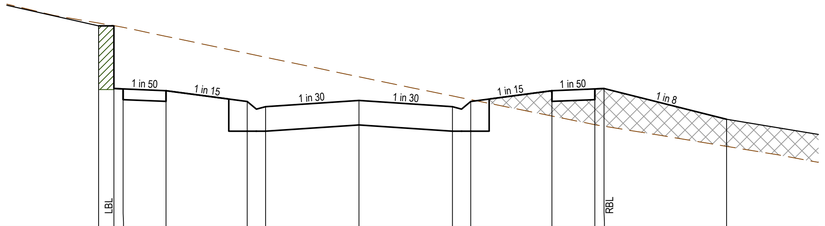
DATUM89.0												
DESIGN SURFACE	91.53	90.33 / 90.32	90.49	90.32 / 90.23	90.33	90.23 / 90.32	90.49	90.52 / 90.53	90.03			
EXISTING SURFACE	91.69	91.28 / 91.26	91.15	90.95 / 90.90	90.66	90.44 / 90.40	90.23	90.14 / 90.12	89.82			
OFFSET	-13.00	-8.00 / -7.70	-6.30	-3.65 / -3.05	0.00	3.05 / 3.65	6.30	7.70 / 8.00	12.00			

CH 64.14



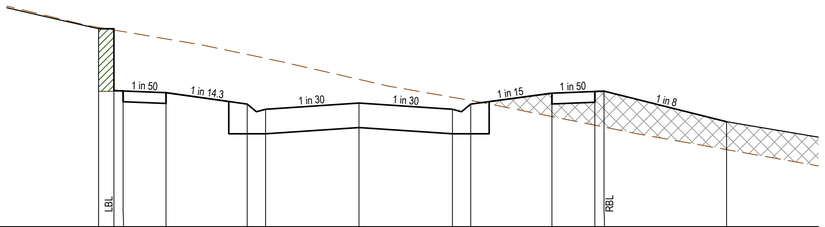
DATUM89.0												
DESIGN SURFACE	91.51	90.51 / 90.50	90.47	90.30 / 90.21	90.31	90.21 / 90.30	90.47	90.50 / 90.51	90.01			
EXISTING SURFACE	91.78	91.31 / 91.29	91.18	90.97 / 90.92	90.66	90.42 / 90.38	90.21	90.10 / 90.07	89.74			
OFFSET	-13.00	-8.00 / -7.70	-6.30	-3.65 / -3.05	0.00	3.05 / 3.65	6.30	7.70 / 8.00	12.00			

CH 60.82



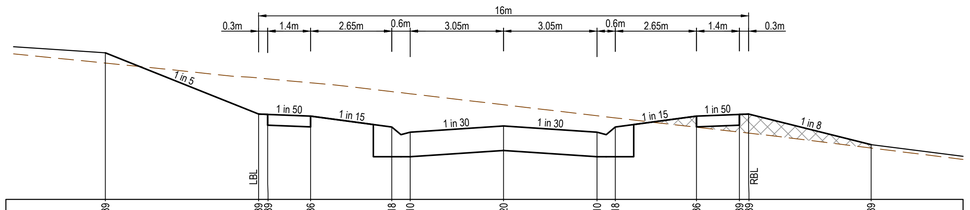
DATUM88.0												
DESIGN SURFACE	91.31	90.28 / 90.28	90.25	90.07 / 89.99	90.09	89.99 / 90.07	90.25	90.28 / 90.28	89.78			
EXISTING SURFACE	91.35	91.31 / 91.28	91.14	90.86 / 90.79	90.47	90.16 / 90.10	89.83	89.69 / 89.67	89.34			
OFFSET	-8.50	-8.00 / -7.70	-6.30	-3.65 / -3.05	0.00	3.05 / 3.65	6.30	7.70 / 8.00	12.00			

CH 43.82



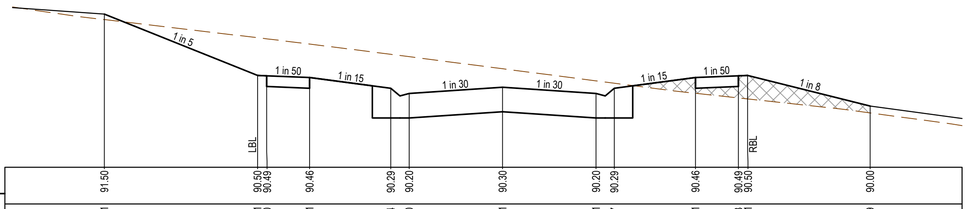
DATUM88.0												
DESIGN SURFACE	91.23	90.22 / 90.22	90.19	90.00 / 89.92	90.02	89.92 / 90.00	90.18	90.21 / 90.21	89.71			
EXISTING SURFACE	91.25	91.21 / 91.18	91.07	90.81 / 90.75	90.40	90.11 / 90.06	89.80	89.66 / 89.63	89.26			
OFFSET	-8.50	-8.00 / -7.70	-6.30	-3.65 / -3.05	0.00	3.05 / 3.65	6.30	7.70 / 8.00	12.00			

CH 39.16



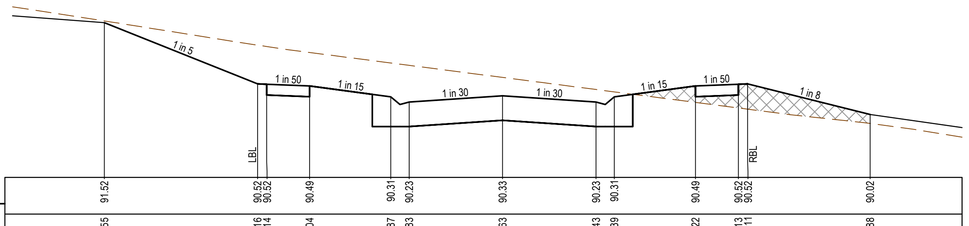
DATUM89.0												
DESIGN SURFACE	91.39	90.39 / 90.39	90.36	90.18 / 90.10	90.20	90.10 / 90.18	90.36	90.39 / 90.39	89.89			
EXISTING SURFACE	91.23	90.98 / 90.97	90.90	90.76 / 90.72	90.55	90.37 / 90.33	90.18	90.10 / 90.08	89.84			
OFFSET	-13.00	-8.00 / -7.70	-6.30	-3.65 / -3.05	0.00	3.05 / 3.65	6.30	7.70 / 8.00	12.00			

CH 91.92



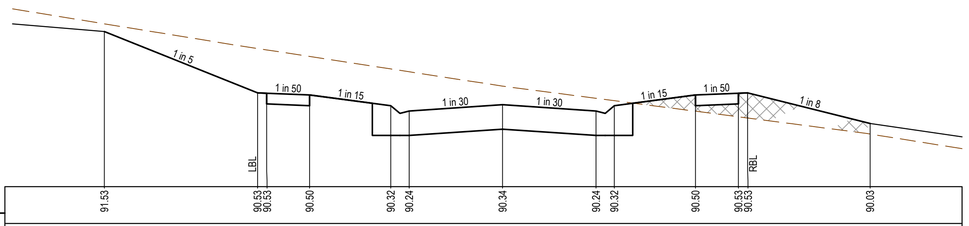
DATUM89.0												
DESIGN SURFACE	91.50	90.50 / 90.49	90.46	90.29 / 90.20	90.30	90.20 / 90.29	90.46	90.49 / 90.50	90.00			
EXISTING SURFACE	91.41	91.11 / 91.10	91.01	90.84 / 90.80	90.61	90.41 / 90.37	90.21	90.13 / 90.11	89.89			
OFFSET	-13.00	-8.00 / -7.70	-6.30	-3.65 / -3.05	0.00	3.05 / 3.65	6.30	7.70 / 8.00	12.00			

CH 75.75



DATUM89.0												
DESIGN SURFACE	91.52	90.52 / 90.52	90.49	90.31 / 90.23	90.33	90.23 / 90.31	90.49	90.52 / 90.52	90.02			
EXISTING SURFACE	91.55	91.16 / 91.14	91.04	90.87 / 90.83	90.63	90.43 / 90.39	90.22	90.13 / 90.11	89.88			
OFFSET	-13.00	-8.00 / -7.70	-6.30	-3.65 / -3.05	0.00	3.05 / 3.65	6.30	7.70 / 8.00	12.00			

CH 71.28



DATUM89.0												
DESIGN SURFACE	91.53	90.53 / 90.53	90.50	90.32 / 90.24	90.34	90.24 / 90.32	90.50	90.53 / 90.53	90.03			
EXISTING SURFACE	91.66	91.26 / 91.23	91.13	90.92 / 90.88	90.64	90.44 / 90.40	90.23	90.14 / 90.12	89.86			
OFFSET	-13.00	-8.00 / -7.70	-6.30	-3.65 / -3.05	0.00	3.05 / 3.65	6.30	7.70 / 8.00	12.00			

CH 66.14

AS CONSTRUCTED PLANS

The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

PASKGROUP™ ESTABLISHED 1969

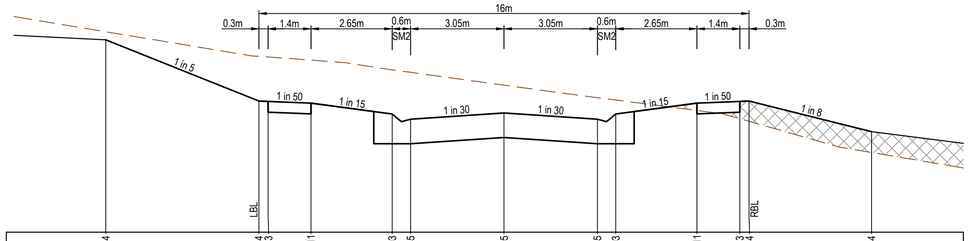
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Cross Sections: Rufous Road
Ch 80.00 - Ch 100.00

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-256	22 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-256.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:09:01 PM

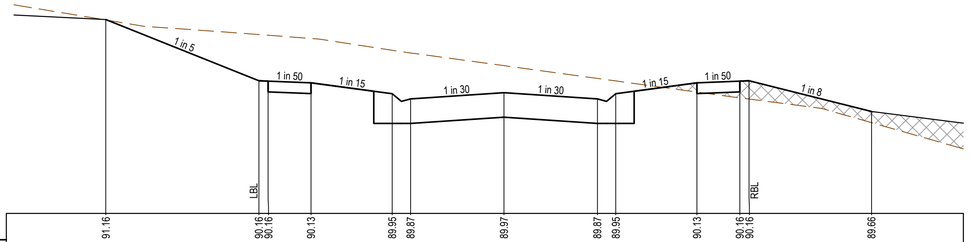
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

LEGEND
- EXISTING SURFACE
- DESIGN LINE
- RETAINING WALL - ROCK
- RETAINING WALL - CONCRETE SLEEPER



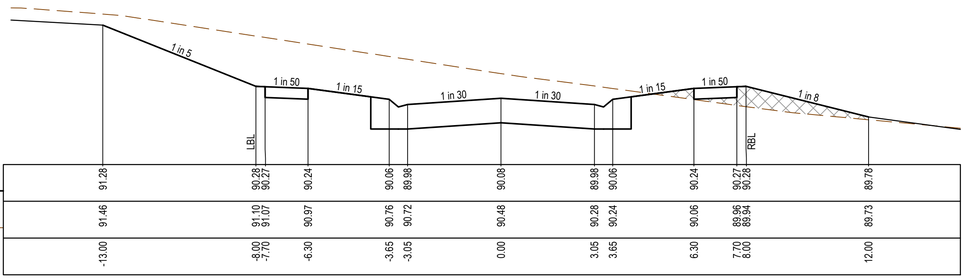
DATUM88.0																							
DESIGN SURFACE	91.14	90.14	90.13	90.11	89.93	89.85	89.95	89.85	89.93	90.11	90.13	90.14	89.64
EXISTING SURFACE	91.27	90.87	90.86	90.81	90.65	90.61	90.40	90.20	90.16	89.99	89.85	89.81	89.30
OFFSET	-13.00	-8.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 128.29



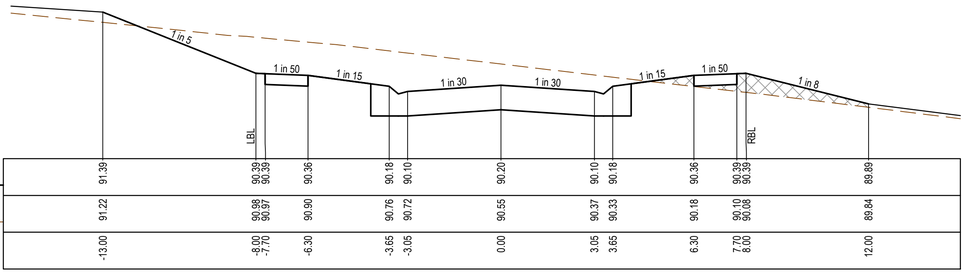
DATUM88.0																							
DESIGN SURFACE	91.16	90.16	90.16	90.13	89.95	89.87	89.97	89.87	89.95	90.13	90.16	90.16	89.66
EXISTING SURFACE	91.16	90.92	90.91	90.85	90.66	90.62	90.41	90.20	90.16	89.98	89.89	89.87	89.48
OFFSET	-13.00	-8.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 126.18



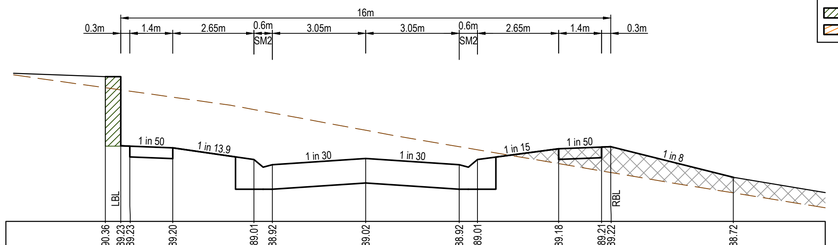
DATUM89.0																							
DESIGN SURFACE	91.28	90.28	90.27	90.24	90.06	89.98	90.08	89.98	90.06	90.24	90.27	90.28	89.78
EXISTING SURFACE	91.46	91.10	91.07	90.97	90.76	90.72	90.48	90.28	90.24	90.06	89.96	89.94	89.73
OFFSET	-13.00	-8.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 110.10



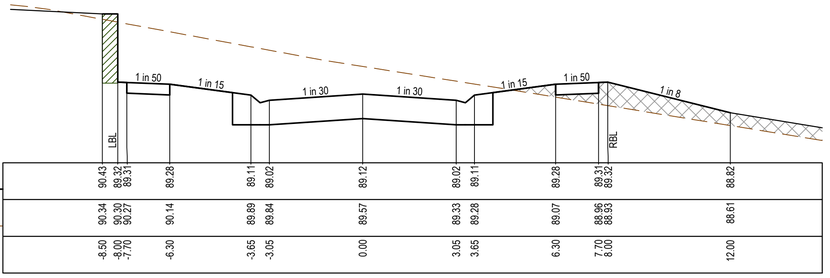
DATUM89.0																							
DESIGN SURFACE	91.39	90.39	90.39	90.36	90.18	90.10	90.20	90.10	90.18	90.36	90.39	90.39	89.89
EXISTING SURFACE	91.22	90.98	90.97	90.90	90.76	90.72	90.55	90.37	90.33	90.18	90.10	90.08	89.84
OFFSET	-13.00	-8.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 91.97



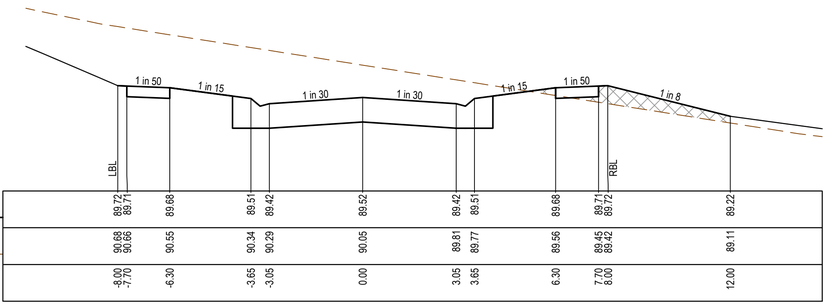
DATUM88.0																							
DESIGN SURFACE	90.36	89.23	89.23	89.20	89.01	88.92	89.02	88.92	89.01	89.18	89.21	89.22	88.72
EXISTING SURFACE	90.18	90.15	90.12	90.03	89.82	89.77	89.49	89.22	89.17	88.94	88.82	88.80	88.46
OFFSET	-8.50	-8.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 176.18



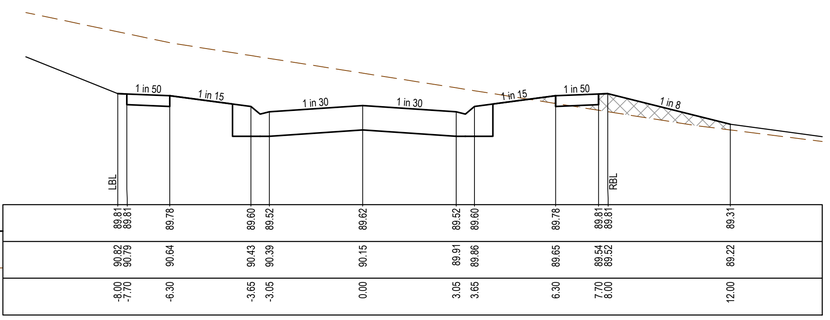
DATUM88.0																							
DESIGN SURFACE	90.43	89.32	89.31	89.28	89.11	89.02	89.12	89.02	89.11	89.28	89.31	89.32	88.82
EXISTING SURFACE	90.34	90.30	90.27	90.14	89.89	89.84	89.57	89.33	89.28	89.07	88.96	88.93	88.61
OFFSET	-8.50	-8.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 171.34



DATUM88.0																							
DESIGN SURFACE	89.72	89.71	89.68	89.51	89.42	89.52	89.42	89.51	89.68	89.71	89.72	89.22
EXISTING SURFACE	90.68	90.66	90.55	90.34	90.29	90.05	89.81	89.77	89.56	89.45	89.42	89.11
OFFSET	-8.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 151.18



DATUM88.0																							
DESIGN SURFACE	89.81	89.81	89.78	89.60	89.52	89.62	89.52	89.60	89.78	89.81	89.81	89.31
EXISTING SURFACE	90.82	90.79	90.64	90.43	90.39	90.15	89.91	89.86	89.65	89.54	89.52	89.22
OFFSET	-8.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 146.47

AS CONSTRUCTED PLANS

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OHS Management : AS/NZS 4801 — Global-Mark.com.au®
Environmental Management : ISO 14001 — Global-Mark.com.au®

PLAN OF SUB. NO. PS906371N
PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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Ph 03 9514 1500

PASKGROUP™ ESTABLISHED 1969

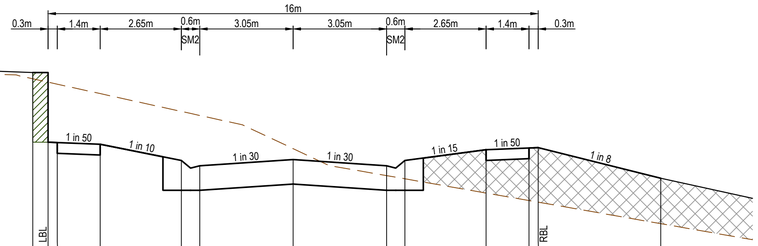
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Cross Sections: Rufous Road
Ch 110.10 - Ch 160.00

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-257	23 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-257.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:09:36 PM

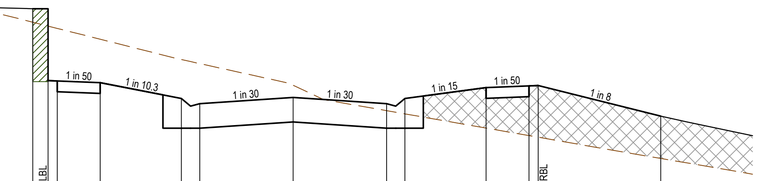
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

LEGEND
- EXISTING SURFACE
- DESIGN LINE
- RETAINING WALL - ROCK
- RETAINING WALL - CONCRETE SLEEPER



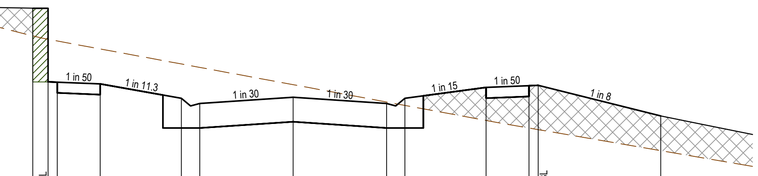
DATUM87.0																							
DESIGN SURFACE	90.01	88.87	88.84	88.57	88.49	88.59	88.49	88.57	88.75	88.78	88.78	88.28
EXISTING SURFACE	89.91	89.85	89.66	89.37	89.31	88.77	88.33	88.27	88.04	87.92	87.89	87.54
OFFSET	-8.50	-8.00	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 203.10



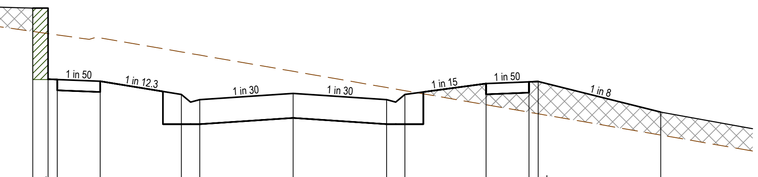
DATUM87.0												
DESIGN SURFACE	90.05	88.87	88.84	88.58	88.50	88.60	88.50	88.58	88.76	88.79	88.79	88.29
EXISTING SURFACE	89.83	89.77	89.55	89.22	89.15	88.80	88.39	88.33	88.10	87.98	87.95	87.61
OFFSET	-8.50	-8.00	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 200.15



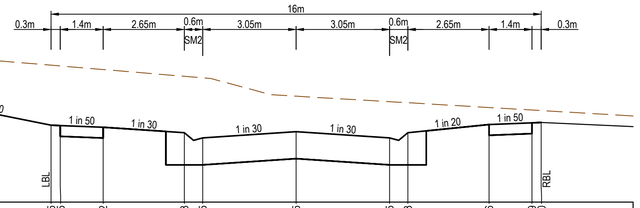
DATUM87.0												
DESIGN SURFACE	90.16	88.95	88.93	88.69	88.61	88.71	88.61	88.69	88.87	88.90	88.90	88.40
EXISTING SURFACE	89.71	89.65	89.50	89.25	89.19	88.91	88.63	88.57	88.33	88.20	88.18	87.84
OFFSET	-8.50	-8.00	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 192.07



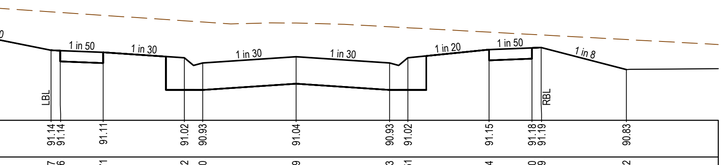
DATUM87.0												
DESIGN SURFACE	90.24	89.08	89.05	88.83	88.75	88.85	88.75	88.83	89.01	89.04	89.04	88.54
EXISTING SURFACE	89.86	89.83	89.76	89.53	89.47	89.21	88.95	88.89	88.66	88.54	88.52	88.17
OFFSET	-8.50	-8.00	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	12.00

CH 184.96



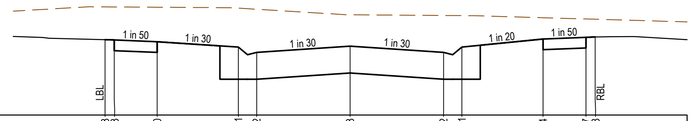
DATUM90.0												
DESIGN SURFACE	91.65	91.25	91.25	91.22	91.13	91.05	91.15	91.05	91.13	91.26	91.29	91.30
EXISTING SURFACE	92.20	92.23	92.22	92.16	92.05	92.03	91.73	91.64	91.62	91.54	91.50	91.49
OFFSET	-12.00	-9.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00

CH 260.60



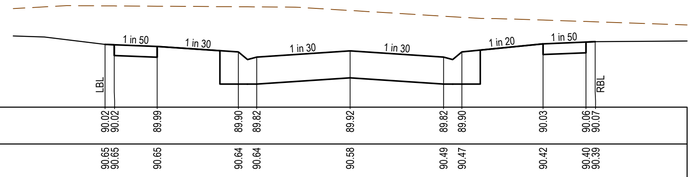
DATUM90.0												
DESIGN SURFACE	91.54	91.14	91.14	91.11	91.02	90.93	91.04	90.93	91.02	91.15	91.18	91.19	90.83
EXISTING SURFACE	91.72	91.77	91.76	91.71	91.62	91.60	91.59	91.53	91.51	91.44	91.40	91.39	91.32
OFFSET	-12.00	-9.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	10.78

CH 257.91



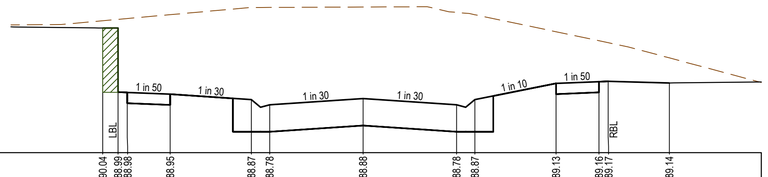
DATUM89.0												
DESIGN SURFACE	90.23	90.23	90.20	90.11	90.02	90.13	90.02	90.11	90.24	90.27	90.28
EXISTING SURFACE	90.77	90.76	90.76	90.74	90.73	90.64	90.63	90.62	90.59	90.57	90.56
OFFSET	-9.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00

CH 244.11



DATUM89.0												
DESIGN SURFACE	90.02	90.02	89.99	89.90	89.82	89.92	89.82	89.90	90.03	90.06	90.07
EXISTING SURFACE	90.65	90.65	90.65	90.64	90.64	90.58	90.49	90.47	90.42	90.40	90.39
OFFSET	-8.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00

CH 241.59



DATUM88.0												
DESIGN SURFACE	90.04	88.99	88.98	88.95	88.87	88.78	88.88	88.78	88.87	89.13	89.16	89.17	89.14
EXISTING SURFACE	90.15	90.18	90.19	90.25	90.37	90.37	90.38	90.29	90.25	89.97	89.83	89.80	89.55
OFFSET	-8.50	-8.00	-7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70	8.00	10.00

CH 224.87

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

SMEC
Member of the Surbana Jurong Group
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Ph 03 9514 1500

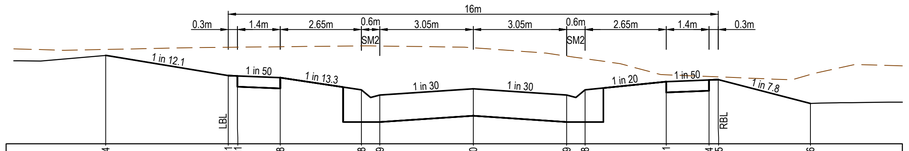
PASKGROUP™ ESTABLISHED 1969

86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Cross Sections: Rufous Road
Ch 171.34 - Ch 203.10

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-258	24 of 39	1

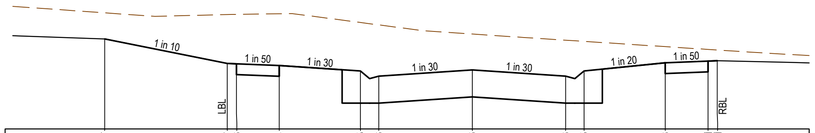
DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-258.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:10:11 PM

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



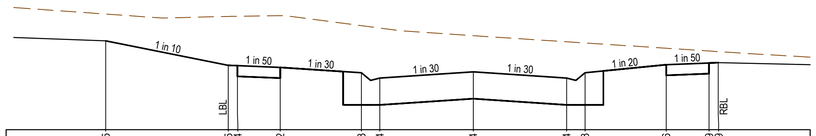
DATUM92.0											
DESIGN SURFACE	93.44	93.11 93.11	93.08	92.88	92.79	92.90	92.79	92.88	93.01	93.04 93.05	92.66
EXISTING SURFACE	93.54	93.57 93.58	93.58	93.60	93.59	93.57	93.43	93.39	93.13	93.10 93.09	93.13
OFFSET	-12.00	-8.00 -7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70 8.00	11.01

CH 294.41



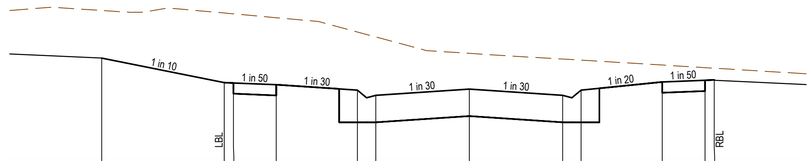
DATUM91.0											
DESIGN SURFACE	92.47	92.07 92.06	92.04	91.95	91.86	91.96	91.86	91.95	92.08	92.11 92.11	
EXISTING SURFACE	92.90	92.87 92.87	92.88	92.74	92.70	92.55	92.45	92.43	92.34	92.30 92.29	
OFFSET	-12.00	-8.00 -7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70 8.00	

CH 279.68



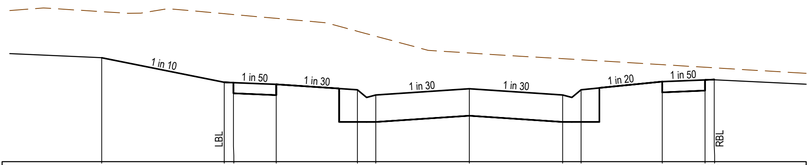
DATUM91.0											
DESIGN SURFACE	92.45	92.05 92.04	92.02	91.93	91.84	91.94	91.84	91.93	92.06	92.09 92.09	
EXISTING SURFACE	92.89	92.85 92.85	92.86	92.70	92.66	92.53	92.43	92.42	92.33	92.28 92.27	
OFFSET	-12.00	-8.00 -7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70 8.00	

CH 279.34



DATUM90.0											
DESIGN SURFACE	91.70	91.30 91.30	91.27	91.18	91.09	91.20	91.09	91.18	91.31	91.34 91.35	
EXISTING SURFACE	92.48	92.44 92.42	92.36	92.13	92.05	91.78	91.69	91.67	91.59	91.55 91.54	
OFFSET	-12.00	-8.00 -7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70 8.00	

CH 261.80



DATUM90.0											
DESIGN SURFACE	91.70	91.30 91.29	91.26	91.17	91.09	91.19	91.09	91.17	91.31	91.34 91.34	
EXISTING SURFACE	92.45	92.42 92.40	92.34	92.13	92.05	91.77	91.68	91.66	91.58	91.54 91.53	
OFFSET	-12.00	-8.00 -7.70	-6.30	-3.65	-3.05	0.00	3.05	3.65	6.30	7.70 8.00	

CH 261.67

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

PLAN OF SUB. NO.	PS906371N
PERMIT REF. NO.	182/2020/p

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

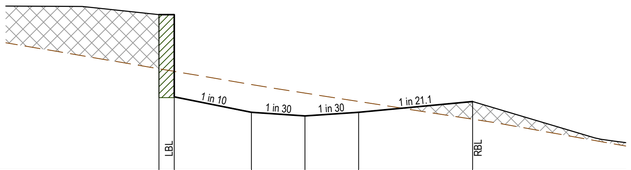
PASKGROUP™ ESTABLISHED 1969

86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Cross Sections: Rufous Road
Ch 224.87 - Ch 261.80

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-259	25 of 39	1

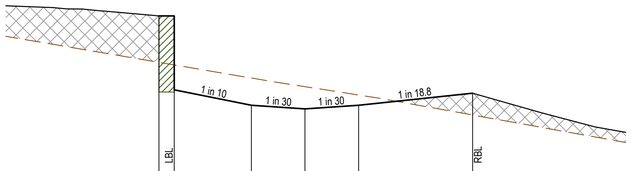
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

LEGEND
- EXISTING SURFACE
- DESIGN LINE
- RETAINING WALL - ROCK
- RETAINING WALL - CONCRETE SLEEPER



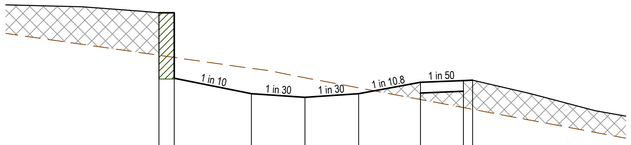
DATUM86.0						
DESIGN SURFACE	88.55	88.55	86.96	86.90	86.96	87.14
EXISTING SURFACE	87.67	87.63	87.41	87.27	87.14	86.85
OFFSET	-4.77	-4.27	-1.75	0.00	1.75	5.47

CH 35.00



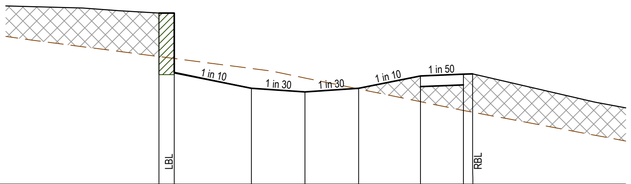
DATUM86.0						
DESIGN SURFACE	88.64	88.64	87.18	87.13	87.18	87.38
EXISTING SURFACE	87.89	87.84	87.63	87.49	87.35	87.03
OFFSET	-4.77	-4.27	-1.75	0.00	1.75	5.47

CH 30.00



DATUM86.0							
DESIGN SURFACE	88.73	88.73	87.41	87.35	87.41	87.60	87.62	87.63
EXISTING SURFACE	88.04	88.00	87.82	87.67	87.51	87.32	87.18	87.16
OFFSET	-4.77	-4.27	-1.75	0.00	1.75	3.77	5.17	5.47

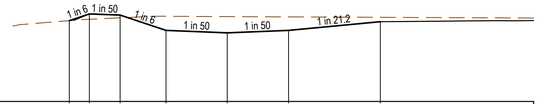
CH 25.00



DATUM86.0							
DESIGN SURFACE	88.79	88.79	87.57	87.51	87.57	87.77	87.80	87.80
EXISTING SURFACE	88.08	88.05	87.89	87.73	87.55	87.35	87.20	87.18
OFFSET	-4.77	-4.27	-1.75	0.00	1.75	3.77	5.17	5.47

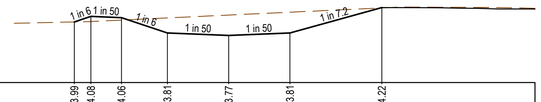
CH 21.54

DRAINAGE RESERVE (WEST - EAST)



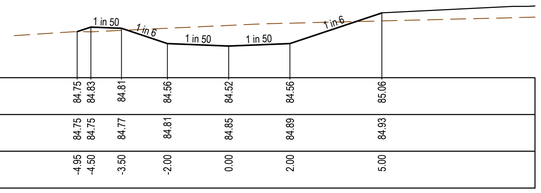
DATUM82.0							
DESIGN SURFACE	83.32	83.43	83.41	83.16	83.12	83.16	83.30
EXISTING SURFACE	83.32	83.34	83.36	83.39	83.39	83.38	83.37
OFFSET	-5.16	-4.50	-3.50	-2.00	0.00	2.00	5.00

CH 38.66



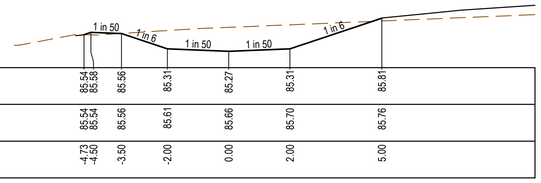
DATUM83.0							
DESIGN SURFACE	83.99	84.08	84.06	83.81	83.77	83.81	84.22
EXISTING SURFACE	83.99	83.99	84.02	84.05	84.10	84.15	84.22
OFFSET	-5.04	-4.50	-3.50	-2.00	0.00	2.00	5.00

CH 30.00



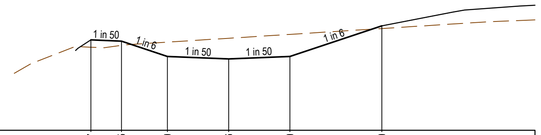
DATUM84.0							
DESIGN SURFACE	84.75	84.63	84.81	84.56	84.52	84.56	85.06
EXISTING SURFACE	84.75	84.75	84.77	84.81	84.85	84.89	84.93
OFFSET	-4.95	-4.50	-3.50	-2.00	0.00	2.00	5.00

CH 20.00



DATUM85.0							
DESIGN SURFACE	85.54	85.58	85.56	85.31	85.27	85.31	85.81
EXISTING SURFACE	85.54	85.54	85.56	85.61	85.66	85.70	85.76
OFFSET	-4.73	-4.50	-3.50	-2.00	0.00	2.00	5.00

CH 10.00



DATUM85.0						
DESIGN SURFACE	86.47	86.45	86.20	86.16	86.20	86.70
EXISTING SURFACE	86.35	86.39	86.44	86.50	86.56	86.66
OFFSET	-4.50	-3.50	-2.00	0.00	2.00	5.00

CH 0.00

DRAINAGE RESERVE (NORTH - SOUTH)

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.	PS906371N
PERMIT REF. NO.	182/2020/p

AS CONSTRUCTED

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

SMEC
Member of the Surbana Jurong Group
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Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

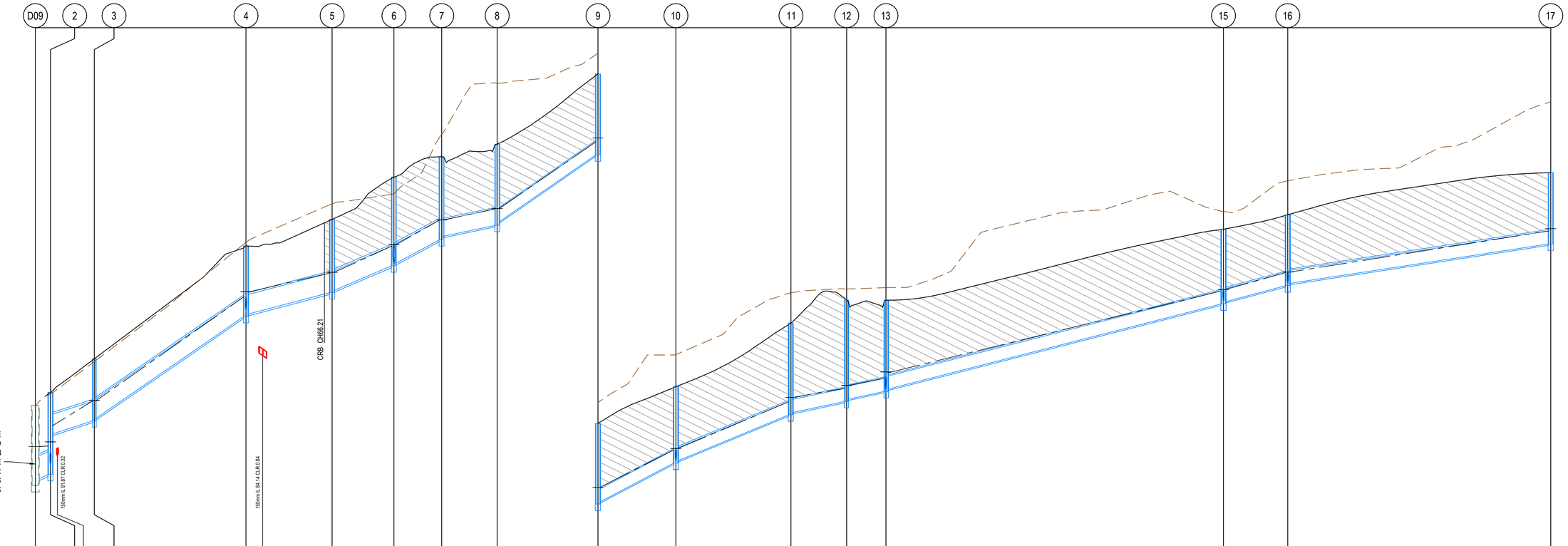
PASKGROUP™ ESTABLISHED 1969

86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Cross Sections: Rufous Road Drainage Reserve
Road B Ch 279.34 - Ch 294.41 and Access A

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-260	26 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-260.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:11:29 PM

▨ **CRUSHED ROCK BACKFILL**
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



CONNECT TO EXISTING MELBOURNE WATER DRAIN. PRIOR TO COMMENCEMENT OF WORKS ON MELBOURNE WATER ASSETS, THE CONTRACTOR MUST APPLY FOR INSPECTION FOR APPROVAL/PERMITS TO WORK ON LIVE ASSETS

DESIGN FLOW (m3/s)	0.235	0.177	0.181	0.159	0.159	0.107	0.104	0.101	0.092	0.089	0.079	0.073	0.045	0.033	0.027
CAPACITY (m3/s)	0.745	0.494	0.741	0.451	0.570	0.638	0.248	0.250	0.216	0.193	0.137	0.137	0.154	0.153	0.118
AT GRADE VELOCITY (m/s)	3.44	3.11	4.66	2.84	3.59	4.01	2.25	3.53	3.06	2.74	1.94	1.94	2.18	2.16	1.68
NOMINAL PIPE SIZE (mm)	525Ø	450Ø	450Ø	450Ø	450Ø	450Ø	375Ø	300Ø	300Ø	300Ø	300Ø	300Ø	300Ø	300Ø	300Ø
PIPE TYPE	RCP	RCP Class 3	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP
GRADE	1 in 33.3	1 in 33.3	1 in 14.8	1 in 40	1 in 25	1 in 20	1 in 50	1 in 15	1 in 20	1 in 25	1 in 50	1 in 50	1 in 39.6	1 in 40	1 in 66.7
(Reach Length)	(3.46)	(10.03)	(34.74)	(19.72)	(14.17)	(10.94)	(12.70)	(23.09)	(17.85)	(26.35)	(12.76)	(9.00)	(77.31)	(14.73)	(60.23)

	D09	2	3	4	5	6	7	8	9	10	11	12	13	15	16	17
DATUM	78.0								86.0							
DEPTH TO INVERT	1.84 1.69	1.87 0.95	1.42 1.37	1.61 1.56	1.68 1.63	2.03 1.98	1.90 1.82	1.86 1.78	1.85 1.80	1.75 1.70	2.10 2.05	2.32 2.27	2.09 2.04	1.71 1.66	1.62 1.57	1.63
HYDRAULIC GRADE LINE	82.06	82.07 82.17 82.54	83.10 83.11	85.49 85.61 85.60	86.03 86.05	86.65 86.68	87.25	87.50 87.51	89.04 89.12	89.98 90.01	91.09 91.19	91.39 91.46	91.62 91.77 91.75	93.63 93.66	94.04 94.06	95.00 95.05
INVERT LEVEL	81.17 81.32	81.42 82.35	82.65 82.70	85.04 85.09	85.58 85.63	86.20 86.25	86.80 86.87	87.13 87.20	88.74 88.79	89.68 89.73	90.79 90.84	91.09 91.14	91.32 91.37	93.33 93.38	93.74 93.79	94.70
FINISHED SURFACE LEVELS	83.01	83.30	84.07	86.66	87.26	88.23	88.70	88.98	90.59	91.43	92.89	93.41	93.41	95.04	95.37	96.33
EXISTING SURFACE LEVEL	83.01	83.25	84.00	86.74	87.62	87.85	89.21	90.37	91.07	92.17	93.58	93.67	93.70	95.44	96.15	97.95
CHAINAGE	0.00	3.46	13.50	48.24	67.96	82.13	93.07	105.76	128.86	146.70	173.05	185.81	194.81	272.13	286.85	347.09

AS CONSTRUCTED PLANS

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OHS Management · AS/NZS 4801 Global-Mark.com.au®
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AS CONSTRUCTED

PLAN OF SUB. NO.
PS906371N
PERMIT REF. NO.
182/2020/p

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

SMEC
Member of the Surbana Jurong Group
ⓒ ABN 47 065 475 149
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Melbourne, VIC 3008
Ph 03 9514 1500

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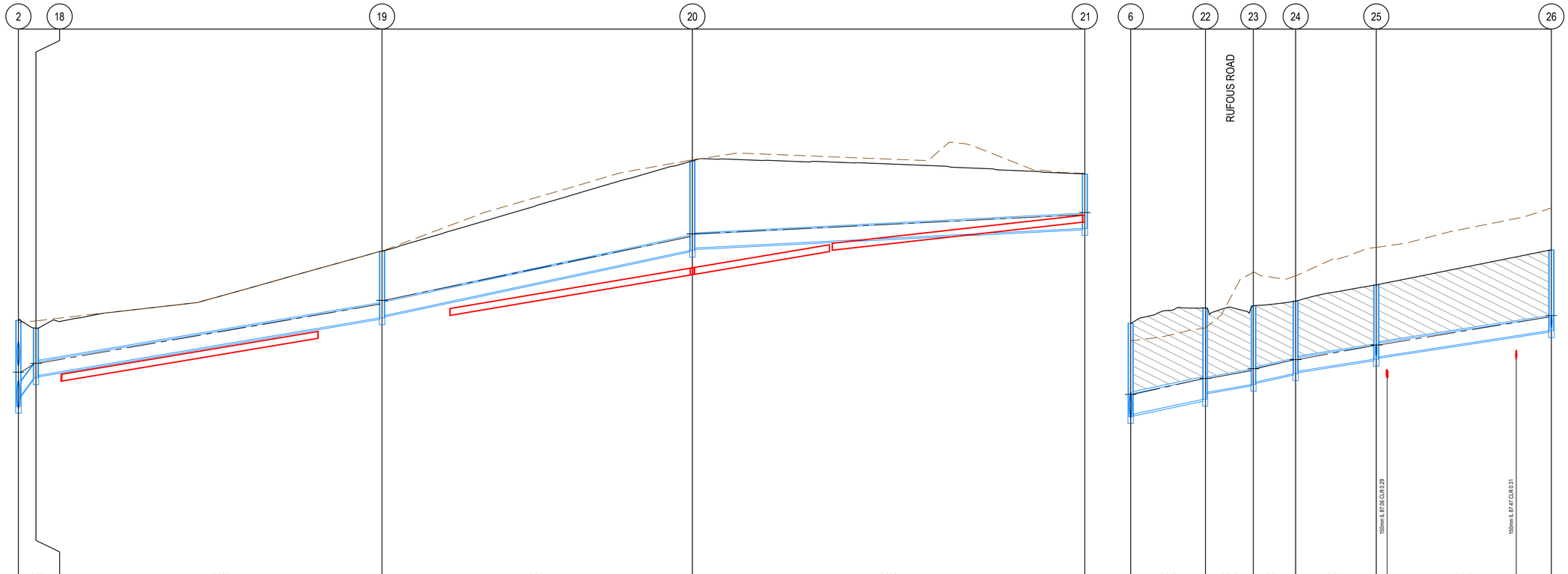
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Drainage Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-301	27 of 39	2

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-301.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:12:30 PM

CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



DESIGN FLOW (m3/s)		0.065		0.066				0.047				0.026						0.062		0.058		0.055		0.055			0.040		
CAPACITY (m3/s)		0.311		0.125				0.140				0.068						0.403		0.125		0.137		0.118			0.118		
AT GRADE VELOCITY (m/s)		4.4		1.77				1.98				0.97						2.54		1.77		1.94		1.68			1.68		
NOMINAL PIPE SIZE (mm)		300Ø		300Ø				300Ø				300Ø						450Ø		300Ø		300Ø		300Ø			300Ø		
PIPE TYPE		RCP		RCP				RCP				RCP						RCP		RCP		RCP		RCP			RCP		
GRADE		1 in 9.7		1 in 60				1 in 47.6				1 in 200						1 in 50		1 in 60		1 in 50		1 in 66.7			1 in 66.7		
DATUM		76.0																81.0											
DEPTH TO INVERT	1.87	1.65	1.08	1.03			1.45	1.40			1.95	1.90			1.19		2.03	1.98	2.00	1.85	1.72	1.67	1.58	1.53		1.62	1.57		1.76	
HYDRAULIC GRADE LINE	82.07	82.17 82.16	82.34	82.36			83.65	83.73			85.13	85.18			85.60	85.65	86.65	86.68	87.03		87.20	87.24	87.44	87.44		87.75	87.76		88.37	88.40
INVERT LEVEL	81.42	81.65	82.04	82.09			83.35	83.40			84.83	84.88			85.30		86.20	86.25	86.58	86.73	86.90	86.95	87.14	87.19		87.45	87.50 87.59		87.96	88.07	
FINISHED SURFACE LEVELS	83.30		83.13				84.81				86.78				86.49		88.23		88.57		88.62		88.72			89.07				89.84	
EXISTING SURFACE LEVEL	83.25		83.29				84.82				86.80				86.50		87.85		88.13		89.36		89.27			89.89				90.75	
CHAINAGE	0.00		3.83				79.31				147.00				232.60		0.00		16.29		26.73		35.97			53.56	55.93		84.09	91.75	
(Reach Length)			(3.83)					(75.49)				(67.69)							(16.29)		(10.44)		(9.24)			(17.59)			(38.19)		

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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Melbourne, VIC 3008
Ph 03 9514 1500

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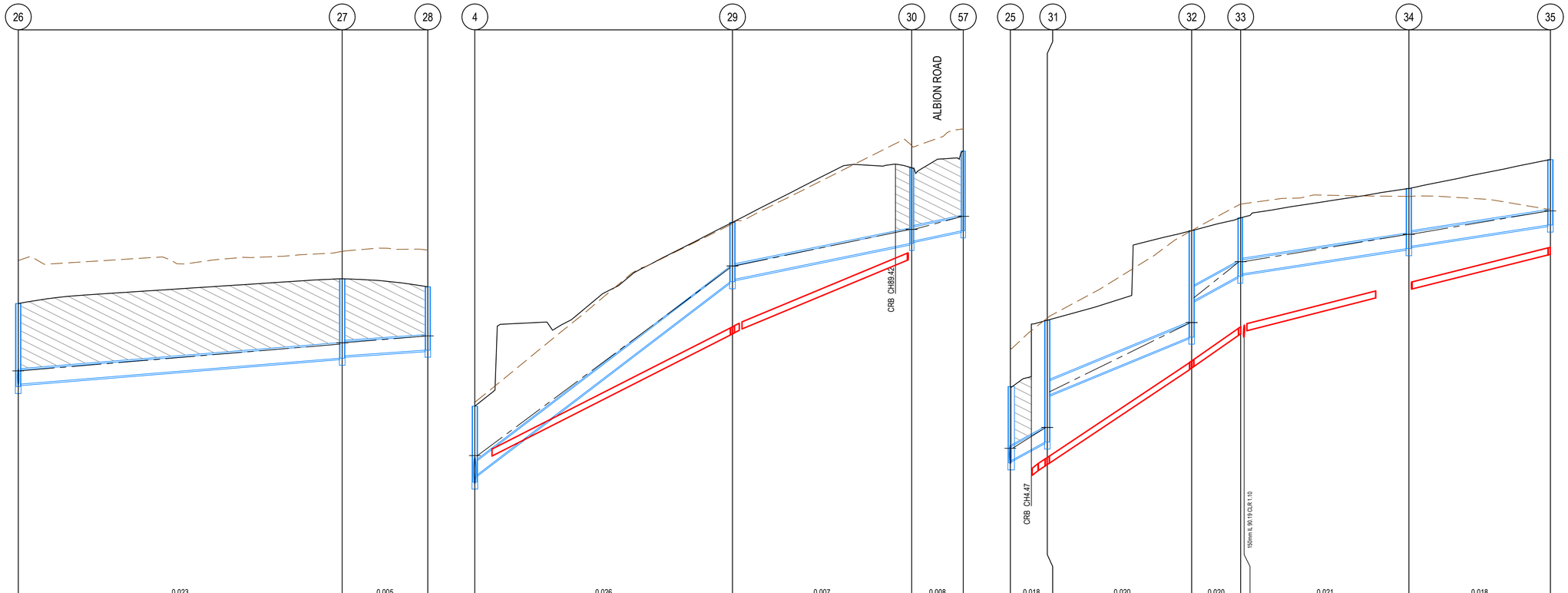
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Drainage Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-302	28 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-302.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:13:09 PM

CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



DESIGN FLOW (m3/s)		0.023						0.005			0.026					0.007				0.008		0.018	0.020		0.020		0.021			0.018	
CAPACITY (m3/s)		0.087						0.079			0.265					0.137				0.137		0.216	0.193		0.216		0.118			0.118	
AT GRADE VELOCITY (m/s)		1.22						1.12			3.75					1.94				1.94		3.06	2.74		3.06		1.68			1.68	
NOMINAL PIPE SIZE (mm)		300Ø						300Ø			300Ø					300Ø				300Ø		300Ø	300Ø		300Ø		300Ø			300Ø	
PIPE TYPE		RCP						RCP			RCP					RCP				RCP		RCP	RCP		RCP		RCP			RCP	
GRADE		1 in 125						1 in 150			1 in 13.3					1 in 50				1 in 50		1 in 20	1 in 25		1 in 20		1 in 66.7			1 in 66.7	
DATUM	82.0										81.0											83.0									
DEPTH TO INVERT	1.76	1.71					1.69	1.64		1.35	1.61	1.46				1.26	1.21			1.61	1.56	1.70	1.62	1.57	2.59	1.59			2.26	1.49	1.24	1.19		1.28	1.23		1.39
HYDRAULIC GRADE LINE	88.37	88.40					88.97	89.00		89.15	85.49	85.61 85.60				89.60	89.63			90.41		90.68 90.69	87.75	87.76	88.19	88.20 88.96			90.42	90.43 90.95	91.71	91.73		92.30	92.31		92.80
INVERT LEVEL	88.07	88.12					88.67	88.72		88.85	85.04	85.19				89.30	89.35			90.11	90.16	90.38	87.45	87.50	87.89	88.89			90.12	90.89	91.41	91.46 91.46		92.00	92.05		92.50
FINISHED SURFACE LEVELS	89.84						90.36			90.19	86.66					90.56				91.72		92.08	89.07		90.48				92.38		92.66			93.28			93.89
EXISTING SURFACE LEVEL	90.75						90.94			90.97	86.74					90.54				92.19		92.53	89.89		90.53				92.39		92.95			93.11			92.84
CHAINAGE	91.75						160.62			178.82	0.00					54.76				92.87		103.84	0.00		7.86				38.55		48.96 49.71			84.73			114.81
(Reach Length)		(68.87)						(18.19)			(54.76)					(38.11)				(10.97)			(7.86)		(30.70)				(10.40)				(35.77)				(30.08)

AS CONSTRUCTED PLANS

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Quality Management : ISO 9001 — Global-Mark.com.au®
OHS Management : AS/NZS 4801 — Global-Mark.com.au®
Environmental Management : ISO 14001 — Global-Mark.com.au®

PLAN OF SUB. NO. PS906371N
PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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Melbourne, VIC 3008
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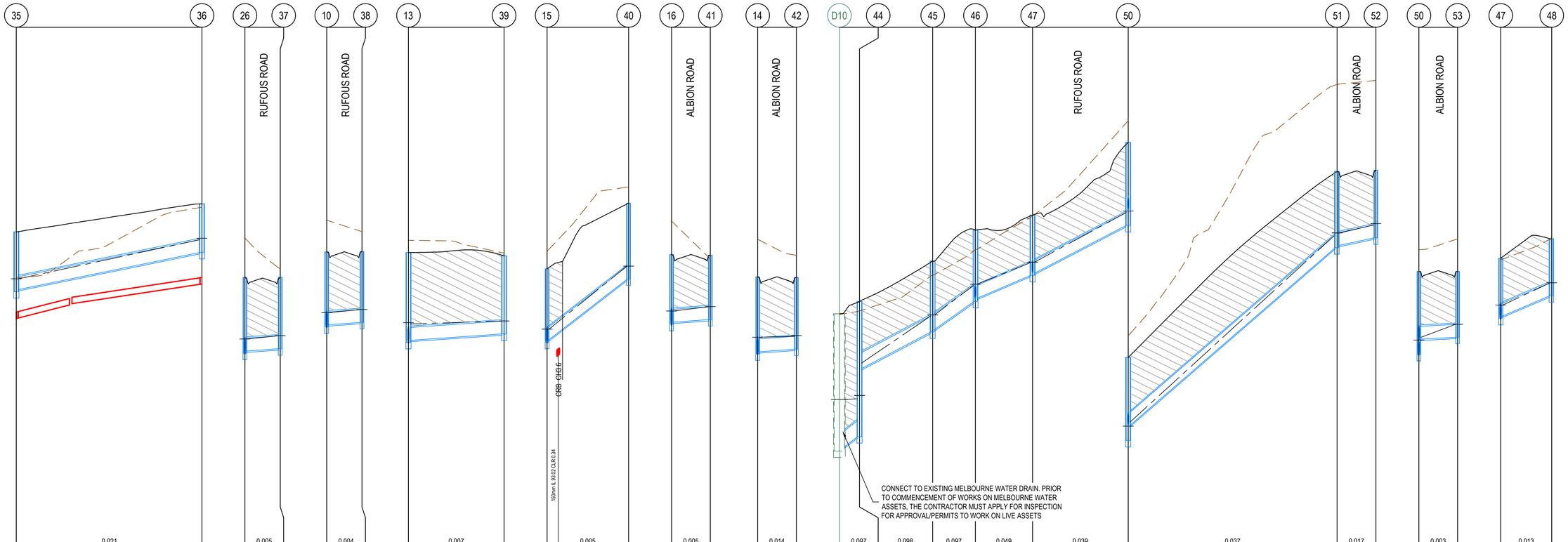
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Drainage Longitudinal Sections - 3

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-303	29 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-303.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:13:46 PM

CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



	35–36	26–37	10–38	13–39	15–40	16–41	14–42	D10–44	44–45	45–46	46–47	47–50	50–51	51–52	50–53	47–48
DESIGN FLOW (m3/s)	0.021	0.005	0.004	0.007	0.005	0.005	0.014	0.097	0.098	0.097	0.049	0.039	0.037	0.017	0.003	0.013
CAPACITY (m3/s)	0.137	0.079	0.079	0.079	0.265	0.079	0.079	0.392	0.392	0.453	0.193	0.216	0.282	0.137	0.068	0.193
AT GRADE VELOCITY (m/s)	1.94	1.12	1.12	1.12	3.75	1.12	1.12	3.55	3.55	4.1	2.74	3.06	3.99	1.94	0.97	2.74
NOMINAL PIPE SIZE (mm)	300Ø	300Ø	300Ø	300Ø	300Ø	300Ø	300Ø	375Ø	375Ø	375Ø	300Ø	300Ø	300Ø	300Ø	300Ø	300Ø
PIPE TYPE	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP
GRADE	1 in 50	1 in 150	1 in 150	1 in 150	1 in 13.3	1 in 150	1 in 150	1 in 20	1 in 20	1 in 15	1 in 25	1 in 20	1 in 11.8	1 in 50	1 in 200	1 in 25
DATUM	85.0	82.0	83.0	85.0	87.0	87.0	87.0	80.0					85.0		83.0	81.0
DEPTH TO INVERT	1.39, 1.34, 1.13	1.76, 1.71, 1.66	1.75, 1.70, 1.65	2.09, 2.04, 1.82	1.71, 1.66, 1.77	1.62, 1.57, 1.50	1.79, 1.74, 1.67	3.19, 3.09, 3.14	1.56, 1.55	1.60, 1.66	1.58, 1.40	1.35, 1.93	1.58, 1.77	1.72, 1.57	1.93, 1.58, 1.53	1.40, 1.35, 1.33
HYDRAULIC GRADE LINE	92.80, 93.72, 93.75	88.37, 88.40, 88.48	89.98, 90.02, 90.09	91.62, 91.78, 91.75, 91.82	93.63, 93.63, 95.10	94.04, 94.06, 94.15	93.36, 93.45, 93.47	93.49, 86.00	86.01, 85.69, 85.94, 86.94	86.96, 87.65	87.68, 88.18	88.19, 89.34	89.38, 89.47, 93.83	93.87, 94.06, 94.09	89.34, 89.38, 89.44, 89.74	88.18, 88.19, 88.71
INVERT LEVEL	92.50, 92.55, 93.42	88.07, 88.12, 88.18	89.68, 89.73, 89.79	91.32, 91.37, 91.52	93.33, 93.34, 94.80	93.74, 93.79, 93.85	93.06, 93.11, 93.17	83.80, 83.90	84.13, 85.72	86.56, 86.61	87.28, 87.35	87.88, 87.93	89.04, 89.40	93.53, 93.58, 93.76	89.04, 89.40, 89.44	87.88, 87.93, 88.41
FINISHED SURFACE LEVELS	93.89, 94.55	89.84, 89.84	91.43, 91.44	93.41, 93.34	95.04, 96.56	95.37, 95.35	94.85, 94.84	86.99	87.28	88.22	88.93	89.28	90.98	95.30, 95.33	90.98, 90.98	89.28, 89.73
EXISTING SURFACE LEVEL	92.84, 94.47	90.75, 90.03	92.17, 91.90	93.70, 93.40	95.44, 96.94	96.15, 95.27	95.72, 95.34	86.97	87.06	87.90	88.48	89.26	91.48	97.33, 97.42	91.48, 91.73	89.26, 89.73
CHAINAGE	114.81, 157.93	0.00, 8.20	0.00, 8.20	0.00, 22.21	0.00, 2.58, 18.93	0.00, 9.00	0.00, 9.00	0.00, 4.68	21.67	31.60	44.88	67.10	115.65, 124.65	9.00	0.00, 9.00	0.00, 11.87
(Reach Length)	(43.12)	(8.20)	(8.20)	(22.21)	(18.93)	(9.00)	(9.00)	(4.68)	(16.99)	(9.93)	(13.28)	(22.22)	(48.55)	(9.00)	(9.00)	(11.87)

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 5 10 20 / 0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Drainage Longitudinal Sections - 4

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-304	30 of 39	2

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-304.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:14:21 PM

CRUSHED ROCK BACKFILL
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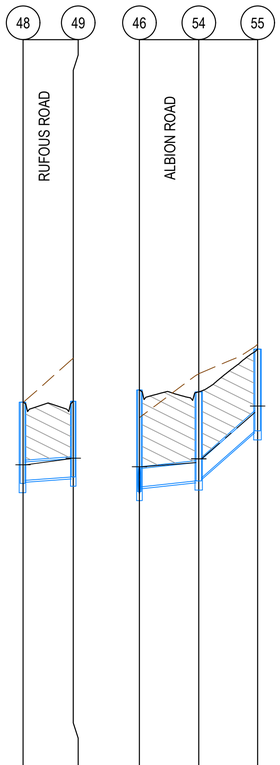

DESIGN FLOW (m3/s)		0.009				0.055		0.032		
CAPACITY (m3/s)		0.079				0.097		0.274		
AT GRADE VELOCITY (m/s)		1.12				1.37		3.87		
NOMINAL PIPE SIZE (mm) PIPE TYPE		300Ø RCP				300Ø RCP		300Ø RCP		
GRADE		1 in 150				1 in 100		1 in 12.5		
DATUM		82.0				81.0				
DEPTH TO INVERT	1.33	1.28	1.24		1.66	1.58	1.45	1.40	1.33	
HYDRAULIC GRADE LINE	88.71		88.81	88.82	87.65	87.68	87.75	87.81	88.57	88.67
INVERT LEVEL	88.41	88.46	88.51		87.28	87.35	87.45	87.50	88.27	
FINISHED SURFACE LEVELS	89.73		89.75		88.93		88.90		89.60	
EXISTING SURFACE LEVEL	89.73		90.45		88.48		89.20		89.66	
CHAINAGE	11.87		20.07		0.00		9.69		19.30	
(Reach Length)		(8.20)				(9.69)		(9.61)		

AS CONSTRUCTED PLANS
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PLAN OF SUB. NO.	PS906371N
PERMIT REF. NO.	182/2020/p

AS CONSTRUCTED

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Drainage Longitudinal Sections - 5

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-305	31 of 39	1

PIT SCHEDULE

PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
D09	Ex MW JUNCTION PIT	1500	1500	525	81.32			83.007	1.687		CONNECT TO EXISTING MELBOURNE WATER DRAIN
2	JUNCTION PIT	900	900	450	82.35	525	81.424	83.299	1.875	SD215 & VicRoads SD1021	HAUNCHED PIT T0 600x900 AS PER VR SD1021
				300	81.649						
3	JUNCTION PIT	600	900	450	82.7	450	82.651	84.07	1.419		
4	JUNCTION PIT	900	900	450	85.092	450	85.042	86.656	1.614	SD215 & VicRoads SD1021	HAUNCHED PIT T0 600x900 AS PER VR SD1021
				300	85.192						
5	GRATED PIT	750	900	450	85.635	450	85.585	87.261	1.676	SD235 & VicRoads SD1021	HAUNCHED PIT T0 600x900 AS PER VR SD1021
6	GRATED PIT	750	900	450	86.252	450	86.202	88.232	2.031	SD230 & VicRoads SD1021	HAUNCHED PIT T0 600x900 AS PER VR SD1021
				450	86.252						
7	DOUBLE SIDE ENTRY PIT GRATED	600	900	375	86.874	450	86.799	88.699	1.9	SD214 & EDCM604	DOUBLE GRATED SIDE ENTRY AS PER EDCM604
8	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	87.203	375	87.128	88.985	1.857	SD214 & EDCM604	DOUBLE GRATED SIDE ENTRY AS PER EDCM604
9	JUNCTION PIT	600	900	300	88.792	300	88.742	90.592	1.85	SD215	
10	SIDE ENTRY PIT GRATED	600	900	300	89.735	300	89.685	91.431	1.746	SD214	
				300	89.735						
11	SIDE ENTRY PIT GRATED	600	900	300	90.838	300	90.788	92.888	2.099	SD214	
12	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	91.144	300	91.094	93.414	2.32	SD214 & EDCM604	DOUBLE GRATED SIDE ENTRY AS PER EDCM604
13	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	91.374	300	91.324	93.413	2.089	SD214 & EDCM604	DOUBLE GRATED SIDE ENTRY AS PER EDCM604
				300	91.374						
14	SIDE ENTRY PIT GRATED	600	900	300	93.107	300	93.057	94.85	1.793	SD214	
15	JUNCTION PIT	600	900	300	93.377	300	93.327	95.037	1.71	SD215	
				300	93.377						
16	SIDE ENTRY PIT GRATED	600	900	300	93.795	300	93.745	95.369	1.624	SD214	
				300	93.795						
17	JUNCTION PIT	600	900			300	94.698	96.332	1.633	SD215	
18	GRATED PIT	600	900	300	82.095	300	82.045	83.129	1.085	SD235	
19	JUNCTION PIT	600	900	300	83.403	300	83.353	84.808	1.455	SD215	
20	JUNCTION PIT	600	900	300	84.875	300	84.825	86.777	1.952	SD215	
21	JUNCTION PIT	600	900			300	85.303	86.492	1.189	SD215	
22	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	86.728	450	86.578	88.573	1.996	SD214 & EDCM604	DOUBLE GRATED SIDE ENTRY AS PER EDCM604
23	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	86.952	300	86.902	88.621	1.719	SD214 & EDCM604	DOUBLE GRATED SIDE ENTRY AS PER EDCM604
24	JUNCTION PIT	600	900	300	87.186	300	87.136	88.72	1.583	SD215	
25	JUNCTION PIT	600	900	300	87.5	300	87.45	89.073	1.622	SD215	
				300	87.5						
26	SIDE ENTRY PIT GRATED	600	900	300	88.123	300	88.073	89.835	1.762	SD214	
				300	88.123						
27	JUNCTION PIT	600	900	300	88.724	300	88.674	90.361	1.687	SD215	
28	JUNCTION PIT	600	900			300	88.845	90.192	1.346	SD215	
29	JUNCTION PIT	600	900	300	89.349	300	89.299	90.561	1.262	SD215	
30	JUNCTION PIT	600	900	300	90.161	300	90.111	91.719	1.608	SD214	
57	JUNCTION PIT	600	900			300	90.381	92.078	1.697	SD214	
31	JUNCTION PIT	600	900	300	88.893	300	87.893	90.481	2.588	SD215	
32	JUNCTION PIT	600	900	300	90.895	300	90.121	92.384	2.263	SD215	
33	JUNCTION PIT	600	900	300	91.465	300	91.415	92.657	1.242	SD215	
34	JUNCTION PIT	600	900	300	92.052	300	92.002	93.281	1.279	SD215	
35	JUNCTION PIT	600	900	300	92.553	300	92.503	93.894	1.391	SD215	
36	JUNCTION PIT	600	900			300	93.415	94.545	1.13	SD215	
37	SIDE ENTRY PIT GRATED	600	900			300	88.178	89.835	1.657	SD214	
38	SIDE ENTRY PIT GRATED	600	900			300	89.789	91.438	1.649	SD214	
39	JUNCTION PIT	600	900			300	91.522	93.337	1.815	SD215	
40	DOUBLE SIDE ENTRY PIT GRATED	600	900			300	94.796	96.562	1.765	SD214	
41	SIDE ENTRY PIT GRATED	600	900			300	93.855	95.354	1.499	SD214	
42	SIDE ENTRY PIT GRATED	600	900			300	93.167	94.835	1.668	SD214	
D10	Ex MW JUNCTION PIT	1650	2350	375	83.9			86.991	2.162		CONNECT TO EXISTING MELBOURNE WATER PIT
44	SIDE ENTRY PIT GRATED	600	900	375	85.715	375	84.134	87.278	3.144		
45	JUNCTION PIT	600	900	375	86.615	375	86.565	88.216	1.651	SD215	
46	SIDE ENTRY PIT GRATED	600	900	300	87.352	375	87.277	88.933	1.657	SD214	
				300	87.352						
47	SIDE ENTRY PIT GRATED	600	900	300	87.933	300	87.883	89.285	1.402	SD214	
				300	87.933						
50	DOUBLE SIDE ENTRY PIT	600	900	300	89.4	300	89.044	90.976	1.932	SD214 & EDCM604	DOUBLE GRATED SIDE ENTRY AS PER EDCM604
				300	89.4						
51	SIDE ENTRY PIT GRATED	600	900	300	93.577	300	93.527	95.299	1.772	SD214	
52	SIDE ENTRY PIT GRATED	600	900			300	93.757	95.329	1.572	SD214	
53	DOUBLE SIDE ENTRY PIT GRATED	600	900			300	89.445	90.975	1.53	SD214 & EDCM604	DOUBLE GRATED SIDE ENTRY AS PER EDCM604
48	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	88.458	300	88.408	89.735	1.327	SD214 & EDCM604	DOUBLE GRATED SIDE ENTRY AS PER EDCM604
49	DOUBLE SIDE ENTRY PIT GRATED	600	900			300	88.512	89.75	1.238	SD214 & EDCM604	DOUBLE GRATED SIDE ENTRY AS PER EDCM604

NOTES
1. ALL PITS WITHIN COUNCIL EASEMENTS AND RESERVES TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD215 AND FITTED WITH SD207 LID
2. STEP IRONS REQUIRED FOR PITS DEEPER THAN 900mm

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N

PERMIT REF. NO. 182/2020/p

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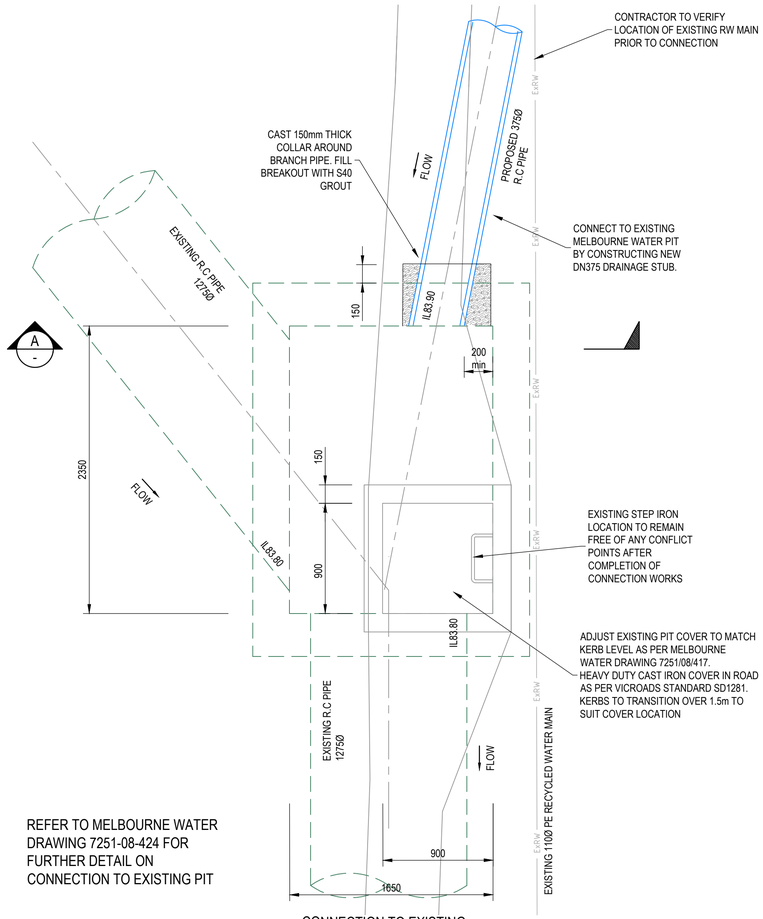
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Pit Schedule

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-351	32 of 39	2

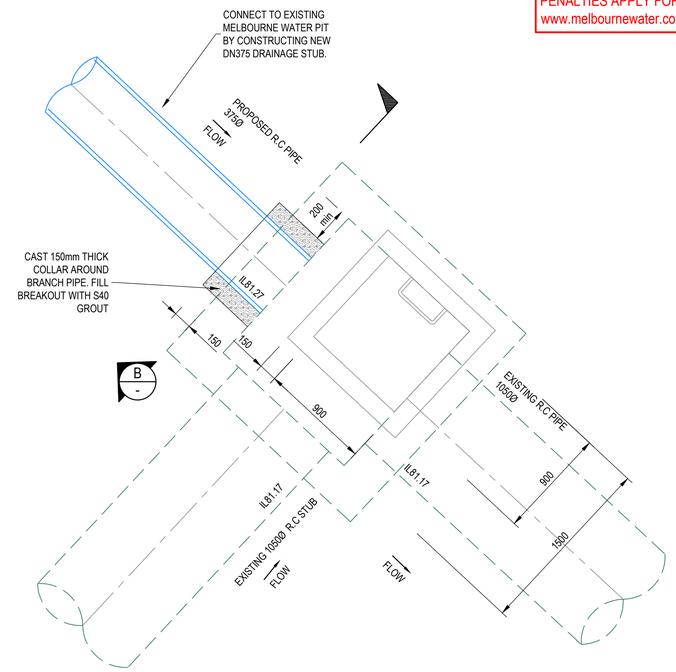
DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-351.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:15:49 PM

PRIOR TO COMMENCEMENT OF WORKS ON MELBOURNE WATER ASSETS, THE CONTRACTOR MUST APPLY FOR INSPECTION VIA THE LINK BELOW FOR APPROVAL/PERMITS TO WORK ON LIVE ASSETS. PENALTIES APPLY FOR UNAUTHORISED WORKS.
www.melbournewater.com.au/building-and-works/apply-to-build-or-develop/inspection-work

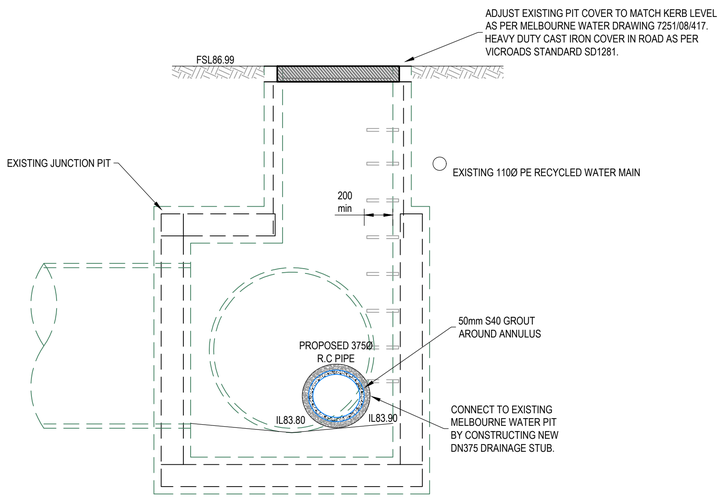


REFER TO MELBOURNE WATER DRAWING 7251-08-424 FOR FURTHER DETAIL ON CONNECTION TO EXISTING PIT

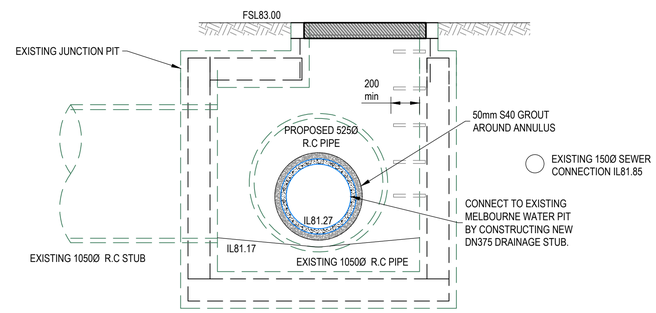
CONNECTION TO EXISTING JUNCTION PIT D10



CONNECTION TO EXISTING JUNCTION PIT D09



SECTION A-A



SECTION B-B

REFER TO MELBOURNE WATER DRAWING 2323/8/2 & 2323/6/1 FOR AS CONSTRUCTED DATA ON EXISTING PITS

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N
PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 0.25 0.5 1
Scale 1:25
SCALE AS SHOWN AT A1

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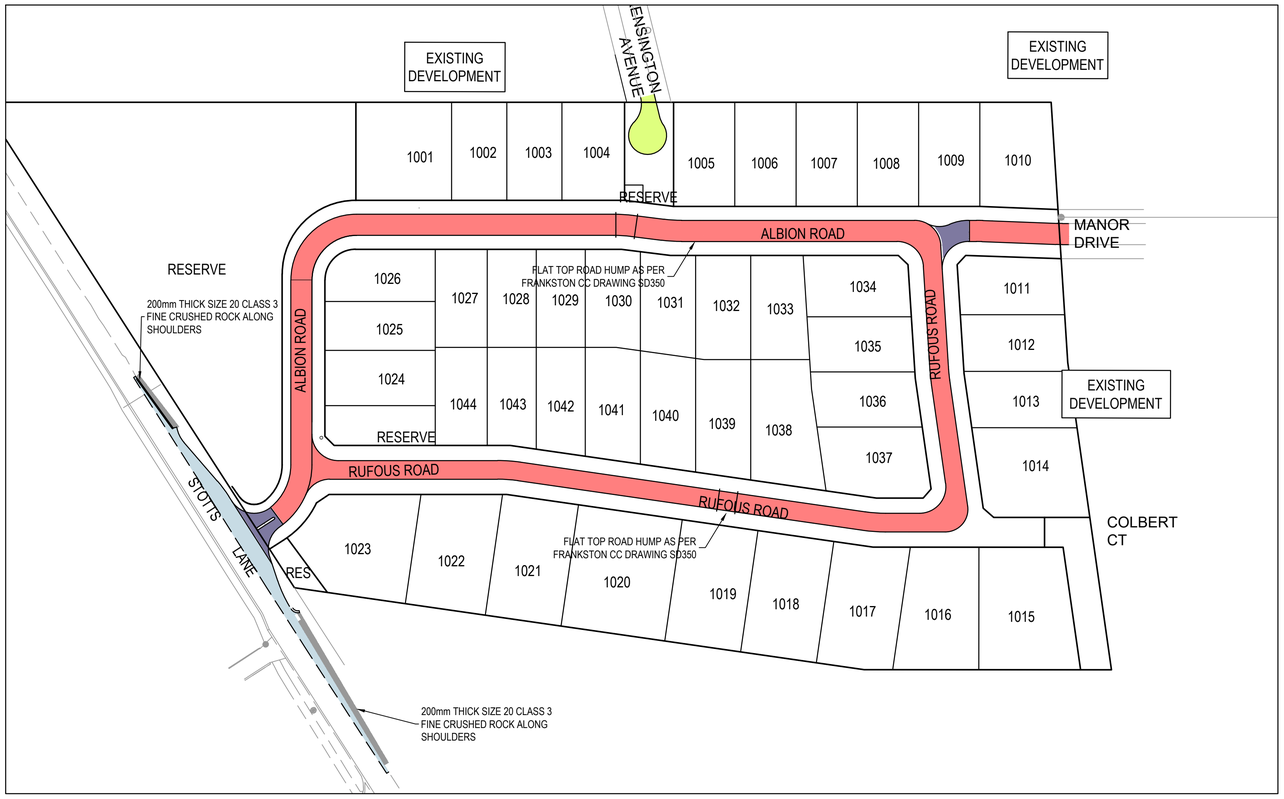
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Melbourne Water Drainage Connection Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-361	33 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-361.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:16:48 PM



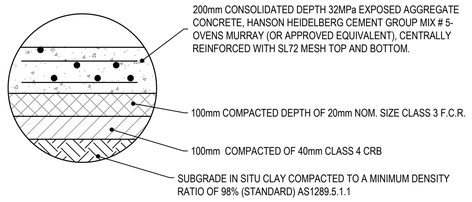
STOTTS LANE WIDENING			
440mm DEPTH PAVEMENT COMPOSITION		LAYER THICKNESS (mm)	MATERIAL
PAVEMENT LAYER			
ASPHALT	WEARING COURSE	30	SIZE 10 TYPE V ASPHALT CLASS 320 BINDER
	BASE	30	SIZE 10 TYPE N ASPHALT CLASS 320 BINDER
	PRIMECOAT	10	PRIME & SIZE 10 SAMI SEAL
BASE COURSE	BASE	130	VICROADS CLASS 2 20mm FINE CRUSHED ROCK
SUBBASE COURSE	UPPER SUBBASE	120	VICROADS CLASS 3 20mm FINE CRUSHED ROCK
	LOWER SUBBASE	120	VICROADS CLASS 4 20mm FINE CRUSHED ROCK
SUBGRADE	SUBGRADE PROTECTION	300	LIME/ CEMENT STABILISATION CBR≥15%
	SUBGRADE	-	NATURAL UNIT 4 SUBGRADE OR CONTROLLED FILL CBR≥3%

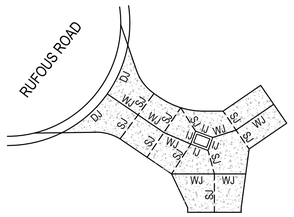
≤760 VPD PAVEMENT COMPOSITION			
440mm DEPTH PAVEMENT COMPOSITION		LAYER THICKNESS (mm)	MATERIAL
PAVEMENT LAYER			
ASPHALT	WEARING COURSE	30	SIZE 10 TYPE N ASPHALT CLASS 320 BINDER
	BASE	30	SIZE 10 TYPE N ASPHALT CLASS 320 BINDER
	PRIMECOAT	10	PRIME & SIZE 10 SAMI SEAL
BASE COURSE	BASE	130	VICROADS CLASS 2 20mm FINE CRUSHED ROCK
SUBBASE COURSE	UPPER SUBBASE	120	VICROADS CLASS 3 20mm FINE CRUSHED ROCK
	LOWER SUBBASE	120	VICROADS CLASS 4 20mm FINE CRUSHED ROCK
SUBGRADE	SUBGRADE PROTECTION	300	LIME/ CEMENT STABILISATION CBR≥15%
	SUBGRADE	-	NATURAL UNIT 4 SUBGRADE OR CONTROLLED FILL CBR≥3%

≤500 VPD PAVEMENT COMPOSITION			
430mm DEPTH PAVEMENT COMPOSITION		LAYER THICKNESS (mm)	MATERIAL
PAVEMENT LAYER			
ASPHALT	WEARING COURSE	30	SIZE 10 TYPE V ASPHALT CLASS 320 BINDER
	PRIMECOAT	-	PRIME OR PRIMERSEAL
BASE COURSE	BASE	200	VICROADS CLASS 2 20mm FINE CRUSHED ROCK
SUBBASE COURSE	UPPER SUBBASE	200	VICROADS CLASS 3 20mm FINE CRUSHED ROCK
SUBGRADE	SELECT SUBGRADE	-	SILTY SAND/SAND SUBGRADE (CBR≥6%)

THRESHOLD TREATMENT FOR INTERSECTION

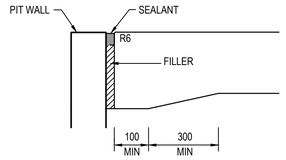
400mm DEPTH



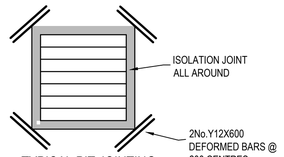


LOT 1015 VEHICLE CROSSING JOINT LOCATIONS & TYPES

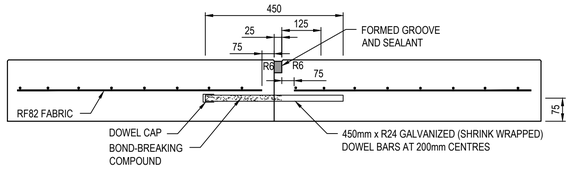
NOT TO SCALE



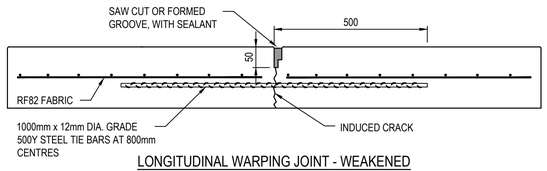
ISOLATION JOINT (IJ)



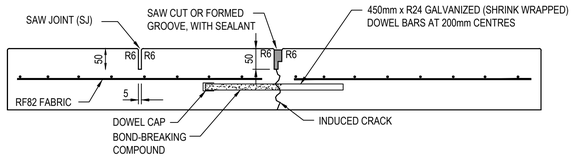
TYPICAL PIT JOINTING



TRANSVERSE CONTRACTION JOINT - DOWELLED BUTT JOINT AT CONSTRUCTION JOINT (DJ)



LONGITUDINAL WARPING JOINT - WEAKENED PLANE JOINT (WJ)



TRANSVERSE CONTRACTION JOINT
SAW JOINT (SJ) AND TRANSVERSE CONTRACTION JOINT (CJ)

CONCRETE JOINTING DETAILS

NOT TO SCALE

CONCRETE NOTES:

1. GENERAL

1.1. ENGINEERING DRAWINGS MUST NOT BE SCALED
1.2. CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS
1.3. ANY DISCREPANCIES MUST BE REFERRED TO THE ENGINEER IMMEDIATELY TO ENSURE CORRECT RECTIFICATION BEFORE PROCEEDING WITH THE WORK.
1.4. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH APPROPRIATE SAA CODES , VICTORIAN BUILDING REGULATIONS, AND BUILDING CODE OF AUSTRALIA
1.5. ALL REFERENCES TO SAA CODES, VBR'S AND BCA SHALL INCLUDE ALL AMENDMENTS
1.6. SUBSTITUTION SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER

2. CONCRETE

2.1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH AS3600. CONCRETE COMPRESSION STRENGTH SHALL BE: 32MPA AT 28 DAYS FOR PAVEMENT OR AS NOTED ON DRAWINGS
2.2. WHEELBARROW RUNS IF USED MUST BE SUPPORTED DIRECTLY FROM THE FORMWORK AND NOT FROM THE REINFORCEMENT
2.3. MECHANICALLY VIBRATE CONCRETE DURING THE CONCRETE POUR
2.4. CONCRETE SURFACES MUST BE ADEQUATELY CURED. CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICKED UNTIL AT LEAST SEVEN DAYS AFTER POURING.
2.5. CONCRETE SIZES AS DRAWN ARE MINIMUM AND DO NOT INCLUDE APPLIED FINISHES
2.6. UNSPECIFIED CONSTRUCTION JOINTS MUST NOT BE MADE WITHOUT THE ENGINEERS PRIOR WRITTEN APPROVAL

3. REINFORCEMENT

3.1. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION. CLEAR COVER NOTED ON DRAWING(S) IS IN ACCORDANCE WITH AS3600 AND SHOULD NOT BE VARIED
3.2. LAPS IN REINFORCEMENT SHOULD COMPLY WITH AS3600
3.3. FIELD WELDING OF REINFORCEMENT IS ONLY PERMITTED WITH THE ENGINEER'S WRITTEN APPROVAL.
3.4. ALL REINFORCEMENT IS TO BE ACCURATELY PLACED, TIED AND SUPPORTED IN POSITION BY BAR CHAIRS AT 750MM CENTRES WHERE APPROPRIATE AND ADEQUATELY IN OTHER MEMBERS

4. FORMWORK

4.1. ALL FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS1509
4.2. RETAIN ALL FORMWORK IN POSITION FOR AT LEAST SEVEN DAYS

WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

JOINT DETAIL NOTES:

1. SAW JOINTS ARE TO BE PLACED AT A MAXIMUM 5m SPACING AT INTERSECTIONS AND CONSTRUCTED 18-24 HOURS AFTER POURING.
2. TRANSVERSE/CONTRACTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 12m.
3. ISOLATION JOINTS ARE TO BE PLACED AROUND PITS.
4. ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH "CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA - CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS 1997".

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS906371N
PERMIT REF. NO. 182/2020/p

AS CONSTRUCTED

0 10 20 40
Scale 1:1000
SCALE AS SHOWN AT A1

N

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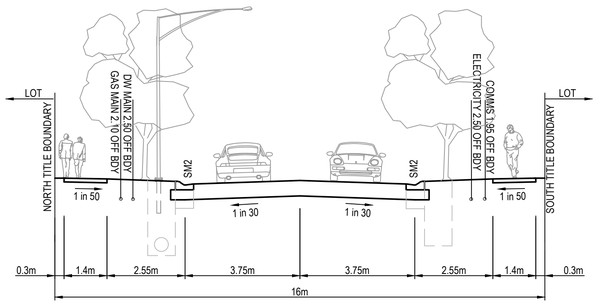
Melbourne, VIC 3008
Ph 03 9514 1500

PASKGROUP™ ESTABLISHED 1969

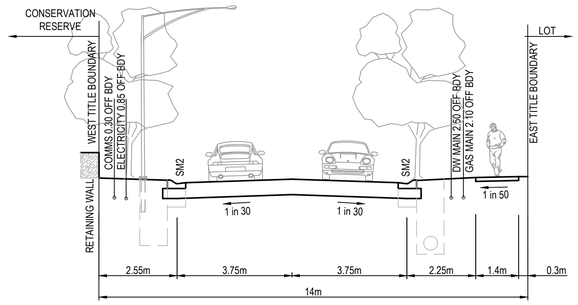
86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Pavement Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-411	34 of 39	1

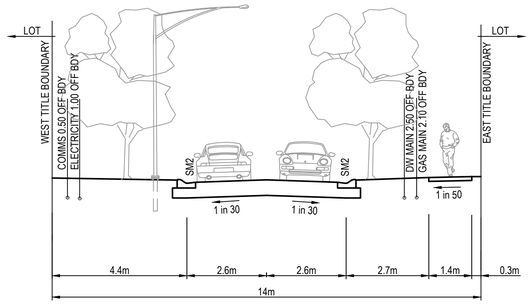
DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-411.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:17:42 PM



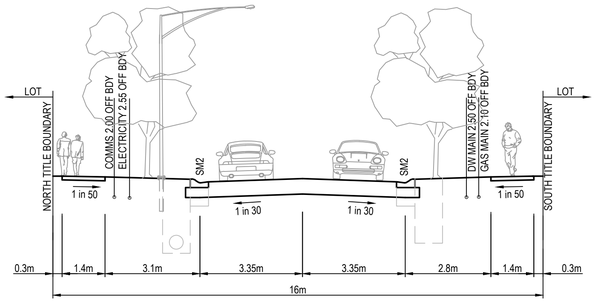
16m ACCESS STREET
ALBION ROAD (EAST / WEST)
ACCESS PLACE/ ACCESS STREET LEVEL 1 - RESIDENTIAL



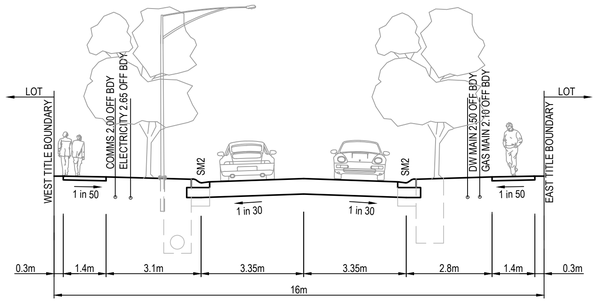
14m ACCESS STREET
ALBION ROAD (NORTH / SOUTH)
ACCESS PLACE/ ACCESS STREET LEVEL 1 - RESIDENTIAL



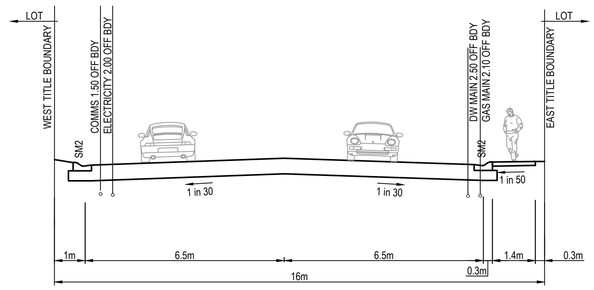
14m ACCESS STREET
KENSINGTON AVE
ACCESS PLACE/ ACCESS STREET LEVEL 1 - RESIDENTIAL



16m ACCESS STREET
RUFOUS ROAD LOTS 1015-1023
ACCESS PLACE/ ACCESS STREET LEVEL 1 - RESIDENTIAL



16m ACCESS STREET
RUFOUS ROAD LOTS 1011-1014
ACCESS PLACE/ ACCESS STREET LEVEL 1 - RESIDENTIAL



16m ACCESS STREET
KENSINGTON AVE COURTBOWL
ACCESS PLACE/ ACCESS STREET LEVEL 1 - RESIDENTIAL

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PLAN OF SUB. NO.	PS906371N
PERMIT REF. NO.	182/2020/p

AS CONSTRUCTED

SCALE AS SHOWN AT A1

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PASKGROUP™ ESTABLISHED 1969

86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Typical Cross Sections

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-421	35 of 39	1

DWG PATH: V:_Vault\Projects_Urban\ENG\2826E-86 Stotts Lane\2826E-001\2826E-001-421.dwg PRINTED BY: JN17034 on 02/05/2024 at 12:18:19 PM

THE FOLLOWING HAVE BEEN IDENTIFIED AS SIGNIFICANT ENVIRONMENTAL ASPECTS FOR THE SITE:

- Vegetation to be retained.
- Protection of retained trees
- ____
- ____
- ____

THESE ASPECTS SHALL BE MANAGED WITH THE ENVIRONMENTAL PROTECTION MEASURES OUTLINED ON THIS PLAN.

I HAVE PREPARED THIS ENVIRONMENTAL MANAGEMENT PLAN AND AGREE TO UNDERTAKE WORKS AND ENSURE SUB-CONTRACTORS UNDERTAKE WORKS IN ACCORDANCE WITH THIS PLAN.

DEVELOPER .....
.....
.....
NAME: SIGNED: DATE:

CONSULTANT SMEC - URBAN DEVELOPMENT
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
NAME: SIGNED: DATE:

CONTRACTOR .....
.....
.....
NAME: SIGNED: DATE:

MANAGEMENT

1. RESPONSIBILITIES:
VEGETATION REMOVALIST / ARBORIST: TBC ON APPOINTMENT
DEMOLITION CONTRACTOR: TBC ON APPOINTMENT
LANDOWNER REPRESENTATIVE: PASK GROUP – TOM HAM 9605-2999
CIVIL CONSULTANT: SMEC – NATHAN HOLLOW 9869 0800

EMERGENCY CONTACTS 1. Person A - TBC
2. Person B - TBC

2. COMMUNICATION OF EMP REQUIREMENTS:
- I ALL PERSONNEL UNDERTAKING ANY WORKS WITHIN THE PHASE 1 PACKAGE MUST BE INDUCTED REGARDING REQUIREMENTS OF THIS EMP.
- EMP TO BE DISPLAYED IN VISIBLE LOCATION WITHIN SITE COMPOUND
EG. ON WALLS OF SITE SHEDS / OFFICE.

3. INSPECTIONS AND MAINTENANCE:
- TWO INSPECTIONS PER WEEK
- PRIOR TO AND AFTER STORM EVENT AND/OR HEAVY RAIN.
- MAINTAINS SO REQUIRED WITH ALL RECTIFICATION TO BE ADDRESSED WITH 12 HOURS OF INCIDENT / REPORT.

4. STAGING OF WORKS:
- THIS EMP APPLIES TO PHASE 1 WORKS WHICH INCLUDES VEGETATION REMOVAL AND SITE DEMOLITION ONLY.
- ANY OTHER WORKS SUCH AS THE FUTURE SUBDIVISION WORKS SHALL BE CONTROLLED BY A SEPARATE AND SPECIFIC EMP RELEVANT TO THOSE WORKS.

5. INFORMING RESIDENTS:
LANDOWNER REPRESENTATIVE TO INFORM RESIDENTS WHICH MAY INCLUDE AN INFORMATION SESSION, LETTER DROP OR OTHER SUITABLE INFORMATION EXCHANGE WHICH MAY INCLUDE VIA DIGITAL DUE TO COVID RESTRICTIONS.

6. ASSOCIATED DOCUMENTS:
- LAND MANAGEMENT PLAN, NATURE ADVISORY (FEB 2022)
- WEED MANAGEMENT PLAN, NATURE ADVISORY (FEB 2022)
- ARBORICULTURAL ASSESSMENT AND TREE IMPACT REPORT, TREE LOGIC (FEB 2021)

NOISE — RISK: MEDIUM

REQUIREMENT:
EPA VICTORIA AND COUNCIL REQUIREMENTS MUST BE ADHERED TO IN RELATION TO THE LEVEL OF NOISE AND WORKING HOURS, TO ENSURE THAT RESIDENTS AND OTHER APPLICABLE NEIGHBOURS TO THE SITE ARE NOT DISTURBED UNREASONABLY. THE GENERATION OF NOISE MUST BE MINIMISED.

7. WORKING HOURS: 07:00 TO 18:00 MON - FRI 07:00 TO 13:00 SATURDAY

8. NOISE MINIMISATION METHODS:
- WORKS TO BE UNDERTAKEN ONLY WITHIN WORKING HOURS.
- RESTRICT USE OF NOISY EQUIPMENT AND PROCESSES TO AVOID DISTURBANCES TO ADJACENT RESIDENTS WHERE POSSIBLE.
- FOLLOW EPA NOISE CONTROL GUIDELINES - TG302/92.

9. OTHER:
CONSIDER THE LOCATION OF THE MULCHER TO REDUCE IMPACT ON SURROUNDING RESIDENTS.

DUST — RISK: MEDIUM

REQUIREMENT:
DUST GENERATION MUST BE MINIMISED TO ENSURE THERE IS NO HEALTH RISK OR LOSS OF AMENITY.

10. MINIMISING DUST GENERATION
- AVOID UNNECESSARY STRIPPING OF TOPSOIL BY REMOVING ONLY VEGETATION AND GROUNDCOVER AS NOMINATED ON THE DRAWINGS.
- WATER SPRAYING AS REQUIRED.
- MINIMISE ACTIVITIES ON HIGH WIND DAYS.

11. DUST SUPPRESSION:
- WATER SPRAYING.
- REDUCE ACTIVITY ONSITE WINDY DAYS.
- MAINTAIN ACCESS/EGRESS AND CONSIDER WATER CART IF NECESSARY.

12. CONTINGENCIES:
- IF HIGH WIND IS EXPECTED WHILE LARGE AREAS OF THE SITE ARE STRIPPED, SPRAY WATER IN ORDER TO ESTABLISH A THICK CRUST OVER UNVEGETATED LAND. ALSO MONITOR DRYNESS OF EXPOSED EARTH. SHOULD GROUND DRY OUT SIGNIFICANTLY, CONSIDER WATER SPRAYING OR COVER AREA WITH SOIL OR GRASS.
- AVOID WORK WHEN HIGH WIND CANNOT BE SUITABLY CONTROLLED
NOTE: IF A HOSE IS USED FOR WATER SPRAYING, THE HOSE IS TO BE FILLED WITH A LARGE TRIGGER NOZZLE. CHECK WATER RESTRICTIONS WITH LOCAL AUTHORITY FOR GUIDELINES.

13. OTHER:
____

EROSION AND SEDIMENT — RISK: MEDIUM

REQUIREMENT:
EROSION AND SEDIMENT MUST BE MANAGED IN ACCORDANCE WITH CURRENT BEST PRACTICE ENVIRONMENTAL MANAGEMENT PRACTICES, TO PREVENT SEDIMENT-LADEN WATER FROM ENTERING ANY DRAINAGE SYSTEM OR NATURAL WATERWAY.

14. DRAINAGE MANAGEMENT:
- STORMWATER FLOWING ONTO SITE WILL BE CONTROLLED BY CUT SWALES/ DRAINS, STRAW BALES AND SILT FENCE OR OTHER CONTROLS TO FILTER FLAW WHERE APPLICABLE.
- ENSURE STORMWATER PITS AND DRAINS ARE PROTECTED FROM SILT/SEDIMENT BY USING APPROPRIATE METHODS.

15. SOIL STABILISATION
DURING CONSTRUCTION:
- GRADE AND SEAL SOIL AS REQUIRED, RE-INSTATE DISTURBED AREAS AS SOON AS PRACTICAL.
- SILT FENCE TO BE INSTALLED ALONG THE SOUTHERN SITE BOUNDARY AND ON THE LOW SIDE OF ANY SPOIL STOCKPILES OR MULCH STOCKPILES
POST WORKS:
- REGULARLY INSPECT AND MAINTAIN ENVIRONMENTAL CONTROL MEASURES.
- TOPSOILING AND GRASSING DISTURBED SOIL AREAS TO BE CARRIED OUT AS SOON AS PRACTICAL.

16. STOCKPILE PROTECTION:
- SILT FENCES TO BE ERECTED AROUND THE DOWNSTREAM SIDE OF STOCKPILES WHERE APPLICABLE. STOCKPILES TO BE PLACED AWAY FROM DRAINAGE INLETS, OPEN DRAINS, WATER COURSES & PAVED AREAS. A CUT-OFF DRAIN WITH EARTH BUND TO BE INSTALLED ON THE UPSLOPE SIDE OF THE STOCKPILE TO DIVERT RUN-OFF AWAY FROM THE STOCKPILE. MINIMISE THE NUMBER OF STOCKPILES WHERE POSSIBLE.

17. SEDIMENT TRAPS:
- SEDIMENT BASIN / SILT FENCE AS REQUIRED.
- PIT LIDS MUST BE FITTED AS SOON AS POSSIBLE - USE TEMPORARY PIT LIDS UNTIL INSTALLED. USE SILT FENCES, SILT SAUSAGES, CUT OFF DRAINS AND OTHER SILT PROTECTION METHODS WHERE NECESSARY AS DETAILED IN THIS EMP PLAN AND AS REQUIRED BY THE SITUATION.
- SILT FENCE TO BE INSTALLED ALONG THE SOUTHERN SITE BOUNDARY AND ON THE LOW SIDE OF ANY SPOIL STOCKPILES OR MULCH STOCKPILES.

18. DEWATERING:
- NOT LIKELY TO BE AN ISSUE IN PHASE 1 WORKS.
- IF PONDING OCCURS ON SITE DEWATER ACROSS VEGETATED SITE.

19. VEHICLE AND ROAD MANAGEMENT: SITE ACCESS:
- ACCESS AND EGRESS TO BE MAINTAINED AND ONLY VIA EXISTING CROSSOVER AND DRIVEWAY.
CLEANING VEHICLES:
- ALL VEHICLES LEAVING THE SITE MUST REMOVE ANY EXCESS SEDIMENTS/ CLAY COLLECTED ON THE VEHICLES WHILST ON SITE.
- EXTERNAL STREETS TO BE CLEANED WHEN AND AS REQUIRED. PARTICULAR ATTENTION REQUIRED PRIOR TO STORM EVENTS.

20. OTHER:
ROADS ARE TO BE CLEANED PRIOR TO RAIN/STORMWATER EVENTS. STORMWATER PITS ALONG THE ESTABLISHED ROADWAY, WHICH ARE SUBJECT TO SEDIMENT DEPOSITS, WILL BE EITHER FITTED WITH KERB INLET PROTECTORS OR SHALL BE FITTED WITH (GEO-FABRIC) FILTER MATERIAL TO CAPTURE SEDIMENTS. ROADS ARE TO BE INSPRECTED AND ANY SEDIMENT DEPOSITED ON THESE ROADS REMOVED.

WASTE — RISK: LOW

REQUIREMENT:
LITTER AND WASTE MUST BE CONTAINED ON SITE. BEFORE DISPOSAL IN A RESPONSIBLE MANNER. WASTE GENERATION MUST BE MINIMISED.

21. MOVEMENT OF SOIL: N/A
CONTAMINANT STATUS:
N/A

22. WASTE MINIMISATION METHODS:
- THE COLLECTION OF SURVEY PEGS AND OTHER MATERIALS ARE TO BE COLLECTED AND RE-USED ONSITE AND RECYCLED FRO FUTURE PROJECTS.
- MATERIALS TO BE STORED IN COMPOUND OR SITE CONTAINER.

23. WASTE STORAGE AND DISPOSAL:
- EXISTING BINS ON SITE TO BE UTILISED AND PLACED KERBSIDE ON THE APPLICABLE COLLECTION DATE.
- EXCESS WASTE TO BE REMOVED BY CONTRACTORS.

24. OTHER:
N/A

CHEMICALS — RISK: LOW

REQUIREMENT:
STORAGE AND SPILL MANAGEMENT PRACTICES MUST BE IMPLEMENTED TO ENSURE THAT NO ENVIRONMENTAL DAMAGE CAN RESULT FROM THE ESCAPE OR SPILLAGE OF CHEMICALS OR FUELS.

25. STORAGE:
- MINIMAL QUANTITIES STORED IN SITE CONTAINER.
- ONLY NECESSARY CHEMICALS AND FUEL TO BE KEPT ON SITE AND STORED IN A SECURED SITE COMPOUND.

26. SPILL MANAGEMENT:
- SPILL KITS TO BE LOCATED ON SITE IN CLOSE PROXIMITY TO THE STORAGE AREA.

27. REFUELLING PROCEDURE:
- WHERE POSSIBLE REFUELLING SHOULD BE COMPLETED OFFSITE AT AUTHORISED REFUELLING STATIONS.
- LIMIT THE AMOUNT OF FUEL KEPT ON SITE AND STORE THIS WITHIN THE SITE COMPOUND AREA AWAY FROM DRAINAGE LINES.

28. OTHER:
N/A

SIGNIFICANT FLORA / FAUNA — RISK: LOW

REQUIREMENT:
ALL SIGNIFICANT FLORA AND FAUNA ON AND ADJACENT TO THE SITE MUST BE PROTECTED

29. YES/NO. DETAILS:
- ALL VEGETATION ON SITE TO BE RETAINED MUST BE FENCED AND LABELLED AS A TREE PROTECTION ZONE.
- ALL FENCING TO BE INSPECTED BY THE SUPERINTENDENT AND COUNCIL PRIOR TO COMMENCEMENT OF WORKS.
- VEGETATION TO BE REMOVED WILL BE INSPECTED BY AN ECOLOGIST PRIOR TO REMOVAL. INSPECTIONS SHALL OCCUR ON A "BUNCH" OF TREES TO ALLOW REMOVAL TO OCCUR EFFICIENTLY.

ARCHAEOLOGICAL / HERITAGE — RISK: LOW

REQUIREMENT:
PLACES, SITES AND OBJECTS OF ARCHAEOLOGICAL OR HERITAGE SIGNIFICANCE MUST BE PROTECTED

30. YES/NO. DETAILS:
- NO AREAS OF SIGNIFICANCE IDENTIFIED.
- SHOULD ANY OBJECT BE FOUND THAT MAY BE SIGNIFICANT THE SUPERINTENDENT SHALL BE ADVISED AS SOON AS PRACTICAL.

------- — RISK: SIGNIFICANT

REQUIREMENT:

31.
____

------- — RISK: SIGNIFICANT

REQUIREMENT:

32.
____

LEGEND - ENVIRONMENTAL MANAGEMENT PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAINAGE PITS
	SWALE DRAIN
	EXISTING STORMWATER DRAINAGE PITS
	EXISTING SWALE DRAIN
	EXISTING RETAINING WALL
	RETAINING WALL
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	TREE PROTECTION FENCING REFER ARBORICULTURE REPORT
	PROPOSED DRIVEWAY & FOOTPATH
S.F. S.F.	SILT FENCE OR SIMILAR APPROVED EROSION PROTECTION FENCE
	TEMPORARY CHAINWIRE FENCE
	EXISTING CHAINWIRE FENCE
	CATCH DRAIN ALONG LOW POINTS WITH SILT CURTAINS OR SIMILAR PLACED AT MIN. 150M
S.B	CATCH DRAIN WITH STRAW BALES / SILT FENCE OR SIMILAR.
	SUGGESTED STOCKPILE LOCATION
WORK COMPOUND	SUGGESTED WORK COMPOUND, FUEL REFILLING LOCATION, AND VEHICLE CLEANING AREA
	STORMWATER PIT PROTECTION
	WORKING AREA
80	EXISTING MAJOR CONTOUR LINE
	CONSERVATION RESERVE

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0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

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Frankston City Council
Road and Drainage
EMP - Layout Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
102 K1	2826E-001-451	36 of 39	1

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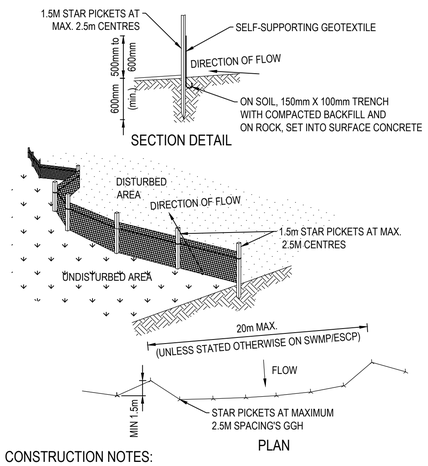
RISK ASSESSMENT CHECKLIST	
NOISE	
ISSUES: - NATURE OF NOISE GENERATING WORKS: CONSTRUCTION MACHINERY. - POTENTIAL NOISE RECEPTORS: SURROUNDING RESIDENTS. - PROXIMITY OF WORKS TO NOISE RECEPTORS: RANGES FROM 10-100 METRES. - THE MAJORITY OF NOISE GENERATING MACHINERY WILL BE LOCATED CENTRALLY WITHIN THE SITE AND THEREFORE, APPROXIMATELY 50 METRES FROM THE NEAREST RESIDENTS.	LIKELIHOOD UNLIKELY CONSEQUENCE MINOR OVERALL RISK MEDIUM
DUST	
ISSUES: - DUST SOURCES: EXPOSED SOIL FROM BUILDING, TREE REMOVAL AND MOVEMENTS OF VEHICLES - POTENTIAL DUST RECEPTORS: SURROUNDING RESIDENTS - PROXIMITY OF WORKS TO DUST RECEPTORS: RANGES FROM 10-100 METRES - EXTENT OF EXPOSED EARTH AND DURATION OF TIME EXPOSED: LIMITED TO TREE REMOVAL AND HOUSE DEMOLITION SITES. PHASE 2 WORKS TO COMMENCE SHORTLY FOLLOWING DEMOLITION AND TREE REMOVAL. - WIND CONDITIONS: VARIABLE BUT PROTECTED FROM SURROUNDING TREES AND HOUSING.	LIKELIHOOD RARE CONSEQUENCE MINOR OVERALL RISK LOW
EROSION AND SEDIMENT	
ISSUES: - EROSION AND SEDIMENT SOURCES: LOCALISED EXPOSED AREAS RESULTING FROM VEGETATION AND SITE DEMOLITION. - POTENTIAL EROSION AND SEDIMENT RECEPTORS: DRAINAGE LINE LOCATED WITHIN THE PROPERTY IMMEDIATELY TO THE SOUTH. - PROXIMITY OF WORKS TO EROSION AND SEDIMENT RECEPTORS: 50 METRES - EXTENT OF EXPOSED EARTH AND DURATION OF TIME EXPOSED: LIMITED TO TREE REMOVAL AND HOUSE DEMOLITION SITES. PHASE 2 WORKS TO COMMENCE SHORTLY FOLLOWING DEMOLITION AND TREE REMOVAL. - SOIL TYPE AND EROSIVITY: SILTY SAND AND CLAY - SLOPE: 1 IN 5 FALLING FROM THE NORTH WEST TO SOUTH EAST CORNER. - SITE DRAINAGE REGIME: OVERLAND AND LOCALISED DIVERTED AS NECESSARY TO ALLOW PHASE 1 WORKS. - RAINFALL: ~800mm / YEAR (2021). - VEHICLE MOVEMENTS ON AND OFF SITE: DAILY TRUCK MOVEMENTS ON/OFF SITE FROM EXISTING CROSSOVER/ACCESS.	LIKELIHOOD RARE CONSEQUENCE MODERATE OVERALL RISK MEDIUM
WASTE	
ISSUES: - NATURE OF WASTE TO BE GENERATED: BUILDING AND CONSTRUCTION PRODUCTS. GENERAL WASTE FROM WORKERS ON SITE. - PRESENCE OF WASTE ON SITE PRIOR TO WORK COMMENCEMENT: N/A - POTENTIAL WASTE RECEPTORS: SURROUNDING RESIDENTS. - PROXIMITY TO POTENTIAL WASTE RECEPTORS: ~50m FROM PROPOSED COMPOUND. - QUANTITY OF WASTE ANTICIPATED: MINIMAL	LIKELIHOOD RARE CONSEQUENCE MINOR OVERALL RISK LOW
CHEMICALS	
ISSUES: - TYPES OF CHEMICALS AND FUELS USED AND/OR STORED ON SITE: DIESEL FOR MACHINE OPERATION. - QUANTITIES OF CHEMICALS AND FUELS USED AND/OR STORED ON SITE: MINIMAL - POTENTIAL CHEMICAL RECEPTORS: SURROUNDING GROUND/SOIL - PROXIMITY TO POTENTIAL CHEMICAL RECEPTORS: AT SOURCE BUT PROTECTED BY SPILL KIT.	LIKELIHOOD RARE CONSEQUENCE MAJOR OVERALL RISK LOW
SIGNIFICANT FLORA/FAUNA	
ISSUES: - TYPES OF FLORA/ FAUNA: PROTECTED VEGETATION AS PER FLORA & FAUNA REPORT - VULNERABILITY OF FLORA/ FAUNA: HIGH. - PROXIMITY OF FLORA/FAUNA TO WORKS: WITHIN WORK ZONE. - WORK ACTIVITIES WHICH MAY THREATEN FLORA/ FAUNA: ALL WORKS. - POTENTIAL IMPACTS ON FLORA/ FAUNA: DAMAGE TO CANOPY AND ROOT ZONES.	LIKELIHOOD LIKELY CONSEQUENCE MAJOR OVERALL RISK SIGNIFICANT
ARCHAEOLOGICAL/HERITAGE	
ISSUES: - TRADITIONAL LAND OWNERS CONSULTED?: YES, CULTURAL HERITAGE REQUIREMENTS ASSESSED AND COMPLETED AS PART OF PLANNING PROCESS AND PROVISION OF PLANNING PERMIT. - SURVEY OR ASSESSMENT CONDUCTED?: NOT REQUIRED - PROBABILITY OF ENCOUNTERING ARCHAEOLOGICAL/ HERITAGE ITEMS DURING WORKS: LOW - TYPES OF ARCHAEOLOGICAL/ HERITAGE ITEMS ON SITE: N/A - PROXIMITY OF ARCHAEOLOGICAL/ HERITAGE ITEMS TO WORKS ON SITE: N/A - WORK ACTIVITIES WHICH MAY THREATEN ARCHAEOLOGICAL/ HERITAGE ITEMS: ALL - POTENTIAL IMPACTS ON ARCHAEOLOGICAL/ HERITAGE ITEMS: DESTRUCTION	LIKELIHOOD RARE CONSEQUENCE MAJOR OVERALL RISK LOW

I HAVE PREPARED THIS ENVIRONMENTAL MANAGEMENT PLAN AND AGREE TO UNDERTAKE WORKS AND ENSURE SUB-CONTRACTORS UNDERTAKE WORKS IN ACCORDANCE WITH THIS PLAN.

ENVIRONMENTAL PROTECTION MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING DESIGNS.

DEVELOPER	CONSULTANT SMEC - URBAN DEVELOPMENT Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008	CONTRACTOR .....
NAME: SIGNED: DATE:	NAME: SIGNED: DATE:	NAME: SIGNED: DATE:

SILT/DRIFT FENCE



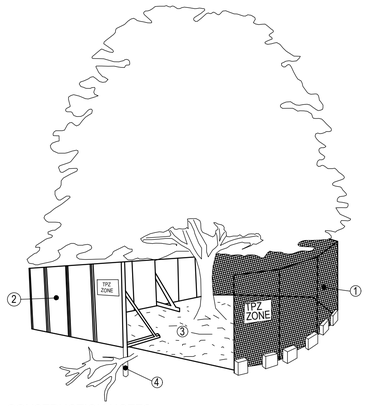
CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150MM DEEP TRENCH ALONG THE UPSIDE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150MM OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

TREE PROTECTIVE FENCING

TREE PROTECTION/ NO-GO FENCING

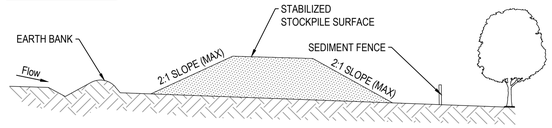
- ALL INDIGENOUS TREES TO TWICE THE CANOPY
- PROTECTIVE FENCING (HIGHLY VISIBLE) AROUND TWICE THE CANOPY DISTANCE OF EACH SCATTERED TREE AND MORE THAN 2 METRES FROM AREAS OF NATIVE VEGETATION IDENTIFIED TO BE PROTECTED.



CONSTRUCTION NOTES:

1. CHAIN WIRE MESH PANELS WITH SHADE CLOTH (IF REQUIRED) ATTACHED, HELD IN PLACE WITH CONCRETE FEET.
2. ALTERNATIVE PLYWOOD OR WOODEN PALING FENCE PANELS. THIS FENCING MATERIAL ALSO PREVENTS BUILDING MATERIALS OR SOIL ENTERING THE TPZ.
3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF THE PROJECT ARBORIST). NO EXCAVATION, CONSTRUCTION ACTIVITY, GRADE CHANGES, SURFACE TREATMENT OR STORAGE OF MATERIALS OF ANY KIND IS PERMITTED WITHIN THE TPZ.
4. BRACING IS PERMISSIBLE WITHIN THE TPZ. INSTALLATION OF SUPPORTS SHOULD AVOID DAMAGING ROOTS.

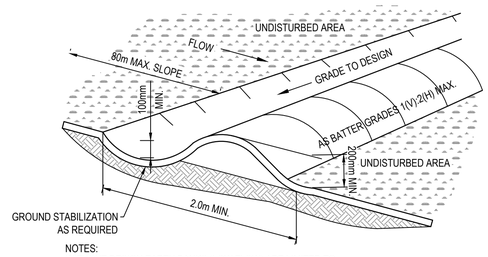
STOCKPILES



CONSTRUCTION NOTES:

1. WHERE POSSIBLE LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.
3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.
6. THE PLACEMENT OF FILL MUST BE DESIGNED TO ENSURE THAT IT DOES NOT COMPROMISE NATIVE VEGETATION TO BE PROTECTED.
7. SOIL MUST NOT BE STOCKPILED ON NATIVE VEGETATION

CUT-OFF DRAIN



NOTES:
WITHOUT DESIGN EARTH BANKS (LOW FLOW) ARE LIMITED TO SLOPS LESS THAN 10% AND MAXIMUM UPSLOPE LENGTH OF 60m. COMPACT BANKS AND REVEGETATE AFTER CONSTRUCTION

OTHER ISSUES 1		OTHER ISSUES 2	
ISSUES: ALL CONTRACTORS TO IMPLEMENT AND ADHERE TO THE GUIDELINES AS DESCRIBED WITHIN THIS EMP. PLEASE REFER TO ALL ASSOCIATED DOCUMENTS AND DETAILED DESIGN DRAWINGS FOR EXACT LOCATION OF ELEMENTS. ALL CONTRACTORS TO IMPLEMENT, MONITOR AND REVIEW ENVIRONMENTAL PROTECTIVE MEASURES ON A STAGE BY STAGE BASIS.	LIKELIHOOD LIKELY CONSEQUENCE MAJOR OVERALL RISK LOW	ISSUES: ----------	LIKELIHOOD LIKELY CONSEQUENCE MAJOR OVERALL RISK LOW

AS CONSTRUCTED PLANS

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0 5 10 20
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86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
EMP - Detailed Plan

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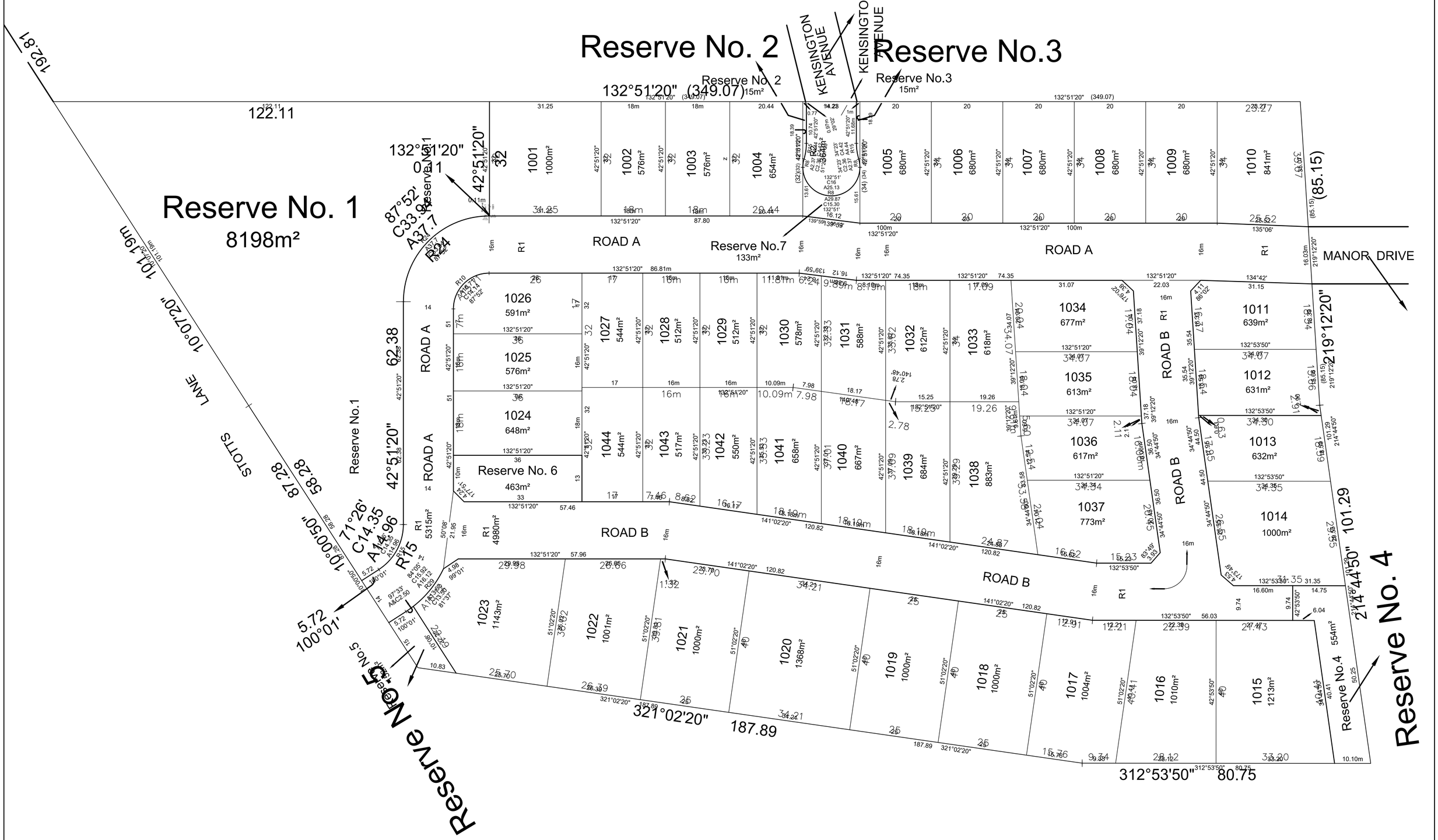

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86-88 Stotts Lane, Frankston South - Stotts Hill Estate
Frankston City Council
Road and Drainage
Plan of Subdivision

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
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PHASE	DISCIPLINE CODE		POTENTIAL RISK (Construction, Operations, Maintenance)		RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED? YES / NO	RESIDUAL RISK LIKELIHOOD (0-5)	RESIDUAL RISK CONSEQUENCE (0-5)	RESIDUAL RISK RATING	RESIDUAL RISK OWNER
Road Furniture / Roadside Features													
Construction	RD	Roads	Construction close to live traffic	New works will be constructed adjacent to live traffic when abutting existing stages.	Contractor	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15	Constructor
Construction	RD	Roads	Culverts	Potential risk from culverts under construction and height / fall hazards	Contractor	Falling from a height	Temporary barriers to be provided	Temporary barrier provided in contract	N	2	5	10	Constructor
Construction	US	Utilities or Services	Utilities become a hazard within clear zones	Vehicle conflict with utility / pit	Contractor	Personal injury, vehicle damage	Sequence works and protect with temp barrier or traffic control (TCP)	TCP provided within contract	N	1	5	5	Constructor
Operational	RD	Roads	Sight Lines	Inadequate drivers response time.	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Vis lines checked and discussed with approval authority as part of design approval process	N	1	4	4	Road Authority
Operational	LS	Lines and Signs	Signs and street lights	Potential for drivers / riders to strike signs and street lights	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Refer to appropriate standard for sign and lighting offsets	N	1	4	4	Road Authority
Operational	RF	Road Furniture	Headwalls	Potential vehicle conflict within clear zone	Road Authority	Increased potential for accidents	Establish adequate clear zone provision	Adequate barrier provided as per appropriate standard where within clear zone. Culvert headwall selection in accordance with authority standard	N	2	4	8	Road Authority
Operational	RD	Roads	Culverts	Potential fall hazard during maintenance, by vechicles and pedestrians	Relevant Authority	Falling from a height	Barriers to be provided in accordance with road standards	Barriers to be provided and safe batter slopes (>1:3)	N	2	5	10	Constructor
Retaining Walls													
Construction	RW	Retaining Walls	Retaining Wall Alignment	Falling from height during construction or commissioning of walls and adjacent structures eg. sewer manholes	Contractor	Falling from a height	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	1	1	Constructor
Operational	RW	Retaining Walls	Retaining Wall Alignment	Lack of safe access/setback from road	Road/ Local Authority	Increased potential for accidents	Establish adequate and accessible clear zone provision. Provide guardrail where required	Wall located in suitable position during design process and approved by authority	N	1	1	1	Authority
Operational	RW	Retaining Walls	Retaining Wall Height	Potential for falling from height	Road/ Local Authority	Personal injury	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	5	5	Authority
Operational	RW	Retaining Walls	Retaining Wall Design	Potential for wall failure	Road/ Local Authority	Increased potential for accidents	Structural design in accordance with standards, geotechnical conditions, end use and good practise.	Refer to structural drawings and calculations	N	1	5	5	Authority
Drainage													
Operational	DR	Drainage	Grated Pits	Trip/fall hazard with large spaced grate	Relevant Authority	Increased potential for accidents	Provide pedestrian/bicycle friendly grates where applicable. Refer to pit schedule	Design in accordance with authority and manufacturers standards	N	3	2	6	Authority
Operational	DR	Drainage	Non Standard Large Pits	Potential for pit failure	Relevant Authority	Increased risk to maintenance crews/ vehicles	Structural design in accordance with relevant design principles.	Refer to structural drawings and calculations	N	1	4	4	Authority
Operational	DR	Drainage	Culvert Endwalls/Headwalls	Potential for falling from height	Relevant Authority	Increased potential for accidents	Fencing to be provided where culverts/headwalls are at height in accordance with relevant authority standards	Allow for fencing in Design Process	N	1	4	4	Authority
Operational	DR	Drainage	Culvert Endwall/Headwall Outlets	Children playing in large pipes / watercourses and access for maintenance	Relevant Authority	Increased potential for accidents	Grate provided to authority standards	Design in accordance with authority and manufacturers standards	N	2	5	10	Authority
Operational	DR	Drainage	Access to Existing Main Drain with new connection	Trip and fall hazard with step iron conflict. Lack of safe access	Relevant Authority	Increased potential for accidents	Ensure step irons are not compromised by connection location within existing pit	Design in accordance with authority and manufacturers standards	N	2	5	10	Authority
Maintenance	DR	Drainage	Access to Pits	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Provide safe landing/ access arrangements as per relevant authority standards	Where possible design pit in location for easy access and outside of permanent water bodies	N	2	5	10	Authority
Maintenance	DR	Drainage	Deep Pits	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, step irons to be provided to appropriate authority standards. Refer to pit schedule	Design in accordance with authority standards	N	1	5	5	Authority
Maintenance	DR	Drainage	Access to drains / culverts	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Access as approved by authority	Design pit in location for easy access as agreed with authority	N	2	3	6	
Sewer													
Construction	SE	Sewer	Sewer Manhole located adjacent to Retaining Wall Alignment	Falling from height during construction or commissioning of adjacent sewer manholes	Contractor	Falling from a height	Provide temporary fencing until such time that permanent fencing is constructed	Provide fencing (at heights) during design process	N	1	1	1	Constructor
Maintenance	SE	Sewer	Deep Manholes	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, landings and step access provided as per authority standards and schedule	Design in accordance with authority standards. Refer pit schedule on drawings	N	1	5	5	Authority
Maintenance	SE	Sewer	Access to Manholes	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Manholes located in compliance with authority standards	Where possible design manhole in location for easy access	N	1	5	5	Authority
Maintenance	SE	Sewer	Pump Station Access	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance	Design pump station in location for easy access	N	2	4	8	Authority
Electricity													
Operational	ES	Electrical Services	Electrical Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Electrical designed by sub consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
Telstra													
Operational	TE	Telstra	Telstra Design	Location of assets within clear zones e.g.. pits	Relevant Authority	Increased potential for accidents	Telecommunications designed by authority consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
Water													
Operational	WA	Water	Water Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
Gas													
Operational	GA	Gas	Gas Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	1	1	1	Authority

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