

SHEET INDEX

SHT No.	VER	DESCRIPTION
1	D	DETAIL PLAN, LOCALITY PLAN, SERVICES SCHEDULE & SHEET INDEX
2	A	GENERAL NOTES, PAVEMENT DETAILS, TYPICAL SECTIONS & CONCRETE JOINTING DETAILS
3	D	INTERSECTION & EXTENDED DRIVEWAY DETAILS
4	A	HANOVER CIRCUIT - LONGITUDINAL SECTION
5	A	HANOVER CIRCUIT - CROSS SECTIONS
6	A	MACLAREN DRIVE - LONGITUDINAL SECTION
7	A	MACLAREN DRIVE - CROSS SECTIONS
8	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
9	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 & PIT SCHEDULE
10	D	SIGNAGE & LINEMARKING PLAN



LOCALITY PLAN  
SCALE 1:20000

AREA OF WORKS



**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.

**SYMBOL LEGEND**

Drains	Prop	Prev Stage	Ex/Natural/FS Level	+28.57	+1828.57	+528.57
Sewer < 300Ø	S	S	FS @ Building Line	+28.57	+1828.57	+528.57
Sewer ≥ 300Ø	S	S	Top/Toe of Batter	+1028.57	+1028.57	+1028.57
Water (DW)	W	W	Top Ret. Wall Level	+1028.57	+1028.57	+1028.57
Water (NDW)	W	W	100yr Flood Level	+FL28.57	+FL28.57	+FL28.57
House Drain	H	H	Fill Proposed (<0.3m/±0.3m)			
Property Inlet	I	I	Cut Proposed			
Street Sign	+	+	Asphalt Surface Prop			
PSM	+	+	Concrete Surface Prop (Paths/Driveways/Slabs)			
Rock Ret Wall	+	+	Tree To Be Removed			
Sleeper Ret Wall	+	+	Tree To Be Retained with Tree Protection Zone (TPZ)			
Conduits 50mm	GW	GW				
Conduits 100mm	W100	W100				
Street Tree without/with Passive Irrigation (Refer Detail)						
Ex Drains	Ex D	Ex D				
Ex Water DW/NDW	Ex W	Ex W				
Ex Sewer/Gas	Ex S	Ex S				
Ex Elect/Comm	Ex E	Ex E				

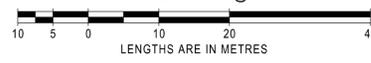
**ATTENTION TO CONTRACTOR**

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
- Contractor to ensure that the site is pegged and/or set out checked by the licenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
- Contractor to ensure pedestrian path and vehicle crossovers are constructed as one section in accordance with Melton Standard Drawings.
- Where concrete works abut a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

SERVICES OFFSETS AND LOCATIONS

Location	Gas	Water		Communications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
		NDW	DW	Cables	Pits	Cables	Poles				
HANOVER CIRCUIT (LOTS 901 - 905)	2.10N	-	2.60N	0.45S	0.45S	2.40S	1.00 BOK	4.20	16.00	G, W & C, E	ACCESS STREET
HANOVER CIRCUIT (LOTS 905 - 909)	2.10N	-	2.60N	1.00S	1.00S	2.40S	1.00 BOK	4.20	16.00	G, W & C, E	ACCESS STREET
HANOVER CIRCUIT (LOTS 911 - 921)	2.10E	-	2.60E	1.00W	1.00W	2.30W	1.00 BOK	4.20	16.00	G, W & C, E	ACCESS STREET
MACLAREN DRIVE	2.10W	-	2.60W	1.85E	1.85E	2.50E	1.00 BOK	4.20	16.00	G, W & C, E	ACCESS STREET
EXTENDED DRIVEWAY	2.10N	-	2.60N	1.85S	1.85S	3.00S	1.00 BOK	-	12.50	G, W & C, E	-

PLAN  
SCALE 1:500  
SCALE 1:500 @ A1



**breese pitt dixon pty. ltd.**  
land surveyors civil engineers

1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

**ORCHARD GREEN ESTATE**  
STAGE 9  
DETAIL DESIGN

MUNICIPALITY MELTON  
REFERENCE 7776E/9

SCALE AS SHOWN DATUM AHD DATE FEB'21 SHEET 1 OF 10 D

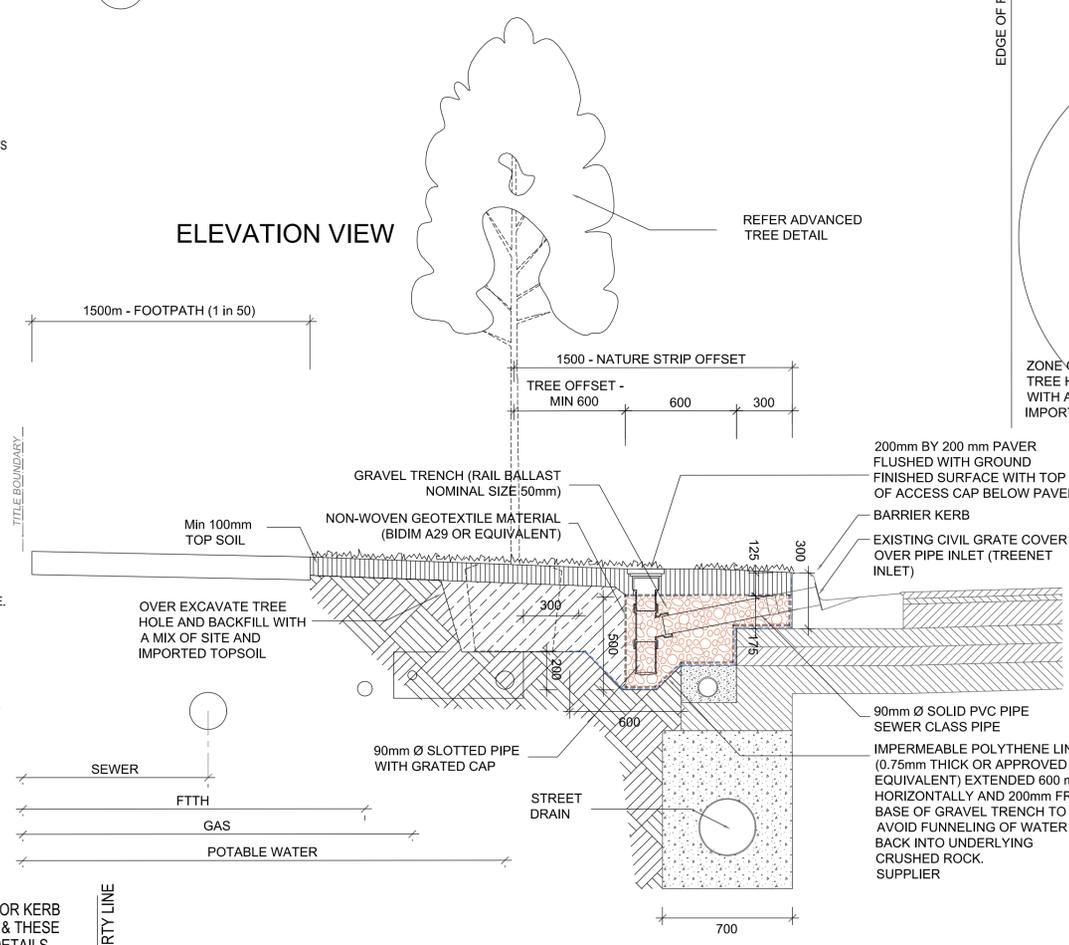
AMENDMENTS	DATE	REMARKS	CHECKED
D	20/07/21	FOOTPATH EXTENDED AT EXTENDED DRIVEWAY	MELWAY REF. 342-J-5
C	09/06/21	TREE PIT LOCATION & COMMUNICATIONS OFFSET AMENDMENTS	SURVEY BPD
B	18/05/21	TREE PIT LOCATION & ELECTRICITY OFFSET AMENDMENTS	DESIGN D.P
A	20/04/21	ISSUED FOR CONSTRUCTION	DRAWN D.P

**NOTES**

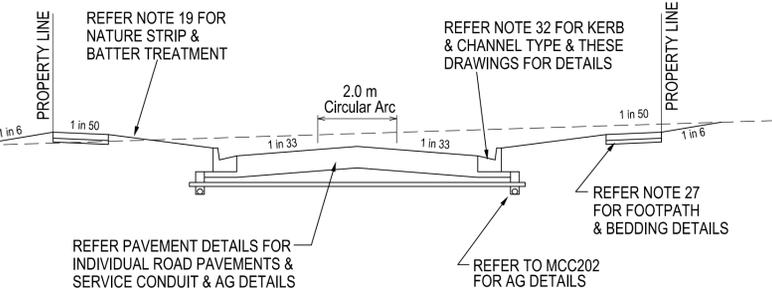
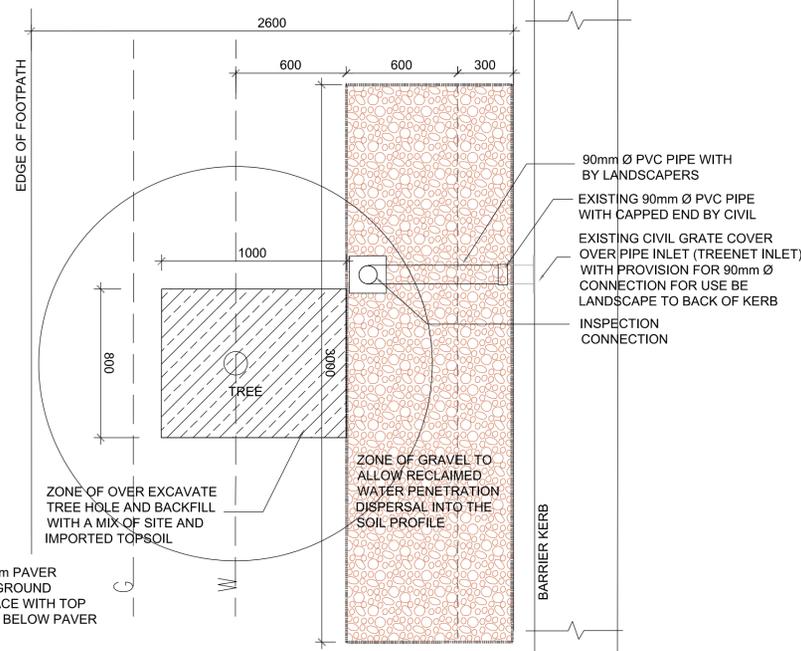
- CONSTRUCTION PLANS MUST BE ACCOMPANIED BY THE APPROVED SPECIFICATION. NO WORK IS TO COMMENCE WITHOUT EVIDENCE OF POSSESSION OF EACH.
- ALL WORKS TO BE CARRIED OUT TO STANDARD DRAWINGS AND SPECIFICATION AS APPROVED BY CITY OF MELTON AND TO THE SATISFACTION OF THE ENGINEER AND THE MUNICIPAL ENGINEER. IN CASE OF A DISPUTE THE SPECIFICATION MUST TAKE PRECEDENCE.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. MINIMUM COVER TO BE 400mm. REFER VPA STD DWGS EDM701, EDM702 & EDM703.
- LOTS DENOTED THUS 25H ARE TO BE PROVIDED WITH A 100mm DIA. HOUSE DRAIN PLACED 5.5m FROM LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. REFER VPA STD DWGS EDM701 & EDM703.
- AGRICULTURAL PIPE DRAINS, AS PER COUNCIL STD DWG MCC202, TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER.
- DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM PIPE CHAINAGES. CENTRELINE OF PITS AT TP'S TO BE OFFSET 1.00 METRE.
- ALL 150mm TO 750mm DIA. TO BE R.C.(RRJ) AND 825mm DIA. AND GREATER TO BE R.C.(F.J). PIPES LAYED ON A CURVE TO BE RRJ. ALL CONCRETE PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED.
- WHERE DRAINAGE PIPES ARE LOCATED WITHIN NATURE STRIPS, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED CLASS 3 F.C.R. UP TO A LEVEL WHERE THE 45deg. INFLUENCE LINE FROM THE B.O.K. INTERSECTS WITH THE NEAREST TRENCH SIDE. PROVIDE CRUSHED ROCK BACKFILL WHERE DRAINAGE CROSSES BELOW FOOTPATHS.
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO A RELATIVE COMPACTION OF 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
  - BENEATH THE ROAD OR DRIVEWAY PAVEMENT TO THE UNDERSIDE OF THE PAVEMENT.
  - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE. (TRENCHES TO BE BACKFILLED IN LAYERS NOT EXCEEDING 200mm LOOSE.)
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- BATTERS SHALL BE 1 IN 6 FOR FILL AND 1 IN 6 FOR CUT UNLESS OTHERWISE SHOWN.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM SITE.
- LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER, ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE.
- ALL RESERVE AREAS ARE TO BE SMOOTHED, GRADED AND TOPSOILED WHERE REQUIRED WITH A 100mm COMPACTED LAYER OF TOPSOIL AND SEEDING USING AN APPROVED SEED MIX AND METHOD OF SOWING, SUCH THAT THE SURFACE IS SELF-DRAINING, STONE FREE AND ABLE TO BE MAINTAINED BY CONVENTIONAL MOWING EQUIPMENT.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON THE PLANS. FILLING TO BE CLEAN CLAY COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1289.5.2-1:2003. CONTROL TESTING TO COMPLY WITH AS3798-2007 APPENDIX B, LEVEL 1.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION No. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
- EARTH FILL IS TO BE COMPACTED TO A RELATIVE COMPACTION COMPARED TO A STANDARD COMPACTION TEST AS SPECIFIED BY VICROADS CORPORATION OF:
  - 100% FOR ALL FILL MATERIAL AND MATERIAL UNDER FILL THAT IS LESS THAN 450mm FROM THE SURFACE.
  - 97% FOR ALL FILL NOT COVERED AS ABOVE.
- NATURESTRIP AND AREAS OF CUT ARE TO BE TOPSOILED AND GRASSED TO THE SATISFACTION OF THE ENGINEER. MINIMUM DEPTH TO BE 100mm.
- ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER. NO EXCAVATION WITHIN 5m OF ANY EXISTING NATIVE TREE WITHOUT APPROVAL OF THE ENGINEER.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED, BY THE CONTRACTOR, PRIOR TO THE COMMENCEMENT OF WORKS.
- SERVICES CONDUITS ARE TO BE PROVIDED AT 90deg TO KERB AND CHANNEL UNLESS OTHERWISE SHOWN AND THE LOCATION IS TO BE MARKED ON THE FACE OF KERB. ALL SERVICE CONDUITS TO BE MINIMUM STANDARD OF CLASS 6, WITH A MINIMUM COVER OF 75mm ABOVE TOP OF CONDUIT TO SUB GRADE LEVEL, AND A SIZE SUITABLE TO SERVICE BUT NOT LESS THAN 50mm.
- WATER AND GAS CONDUITS TO BE CONSTRUCTED ACROSS NATURE STRIPS AFTER ELECTRICAL CABLE WORK IS COMPLETED.
- THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETE MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.
- TELSTRAINBN Co TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
- VEHICLE CROSSINGS TO BE OFFSET 0.75m FROM SIDE BOUNDARIES AND EASEMENTS UNLESS OTHERWISE SHOWN AND A MINIMUM OF 0.75m CLEAR OF PITS. VEHICULAR CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF MELTON STANDARD DRAWINGS MSC501 TO MSC506.
- ALL RESIDENTIAL FOOTPATHS SHALL BE 1.5m WIDE (MIN.) AND SHARED PEDESTRIAN/CYCLE PATHS SHALL BE 2.5m (MIN.). CONCRETE PATHS ARE TO BE 125mm THICK REINFORCED WITH SL72 MESH 50mm TOP COVER AND UNDERLAIN BY 50mm OF CLASS 3 CR. REFER VPA STD DWG EDM401.
- PRAM CROSSINGS ARE TO BE CONSTRUCTED WHERE FOOTPATHS CONNECT TO THE BACK OF KERB & CHANNEL. REFER TO COUNCIL STD DWG MCC403.
- STREET SIGNS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARDS.
- THE CONTRACTOR SHALL TO THE SATISFACTION OF THE ENGINEER AND THE MUNICIPAL ENGINEER, PROVIDE AND MAINTAIN INCLUSIVE OF STREET SIGNS, ALL NECESSARY REGULATORY SIGNS, WARNING SIGNS, LIGHTING, LINEMARKING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF VICROADS SIGNING CODE OF PRACTICE.

- THE CONTRACTOR IS TO SUPPLY AND ERECT ALL RELEVANT STREET SIGNAGE AND LINE MARKING AS PART OF THE CONTRACT IN ACCORDANCE WITH VICROADS SPECIFICATION SECTIONS 710 & 722 AND AS1742.1, 2 & 3
- ALL ROADS TO BE CONSTRUCTED WITH B2 KERB & CHANNEL UNLESS OTHERWISE SHOWN. REFER VPA STD DWG EDM301.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A ROAD OPENING PERMIT FOR WORKS IN PREVIOUSLY CONSTRUCTED ROADWAYS.
- IF BLASTING IS REQUIRED THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PERMIT TO BLAST AND MAINTAINING SAFETY REGULATIONS ON SITE IN COMPLIANCE WITH THE EXPLOSIVES ACT 1980. THE PERSON WHO IS USING THE EXPLOSIVES ON THE SITE IS TO BE A HOLDER OF A CURRENT PERMIT TO USE EXPLOSIVES ISSUED UNDER THE EXPLOSIVES ACT 1980.
- PATTERNED CONCRETE TO BE DOWELLED INTO ADJACENT KERB AND CHANNEL AT 300mm CTS USING 450mm LONG S12 BARS. ONE END OF DOWEL TO BE SLEEVED OR GREASED.
- THE RELATIVE COMPACTION OF CRUSHED ROCK SHALL BE COMPLETED AT THE OPTIMUM MOISTURE CONTENT TO A DRY DENSITY (BASED ON THE PERCENTAGE OF THE MAXIMUM DRY DENSITY OBTAINED IN THE MODIFIED COMPACTION TEST) AS BELOW.
  - FOR DEPTH 0-100mm BELOW TOP OF BASE: RELATIVE COMPACTION = 100%
  - FOR DEPTH 100-300mm BELOW TOP OF BASE: RELATIVE COMPACTION = 98%
  - FOR DEPTH OVER 300mm BELOW TOP OF BASE: RELATIVE COMPACTION = 97%
- THE SUBGRADE BELOW ALL PAVEMENTS SHALL BE COMPACTED TO A DRY DENSITY OF NOT LESS THAN 100% OF THE MAXIMUM DRY DENSITY OBTAINED IN THE STANDARD COMPACTION TEST IN AREAS OF CUT TO A DEPTH OF 150mm AND IN AREAS OF FILL TO A DEPTH OF 450mm.
- CONCRETE TO HAVE A 28 DAY STRENGTH OF 25 MPa.
- ALL SPLAYS ARE 3.00m X 3.00m UNLESS OTHERWISE SHOWN.
- ALL LEVELS ARE TO THE AUSTRALIAN HEIGHT DATUM (A.H.D.)
- EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.
- THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBMS TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBMS AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
- PROVIDE 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. PALINGS TO BE ON THE RESERVE SIDE AND STAINED IN A DARK GREEN COLOUR ON THE SIDE FACING THE RESERVE TO THE SATISFACTION OF COUNCIL.

**1 PASSIVE IRRIGATION DETAIL (TREENET STYLE INLET)**

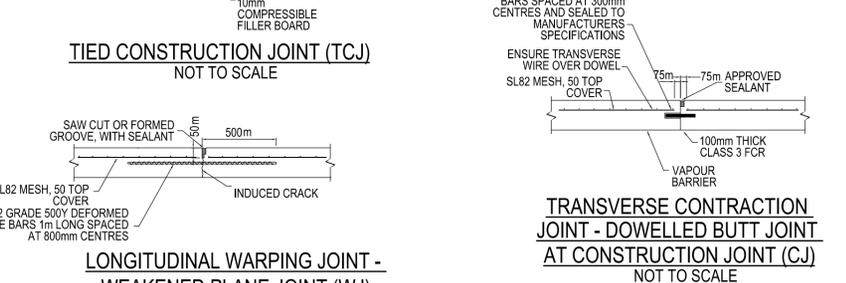
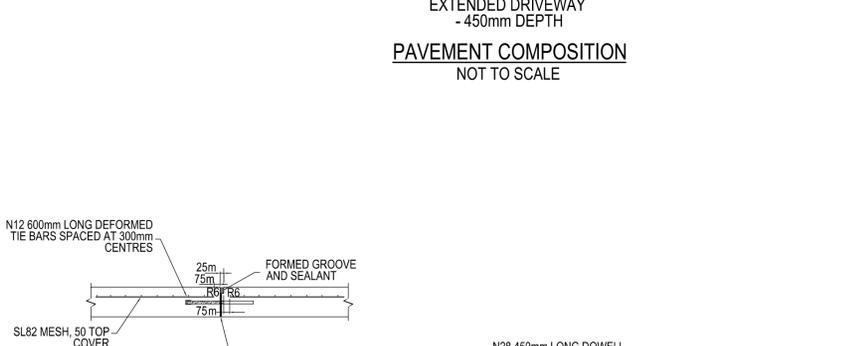
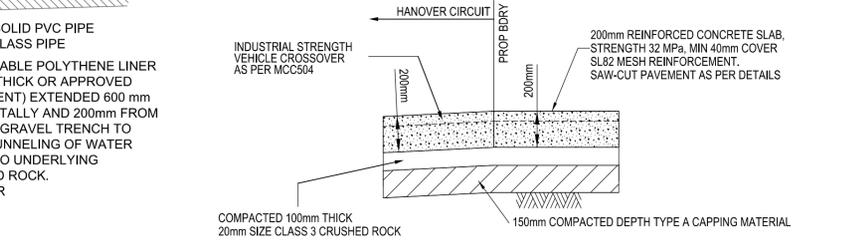
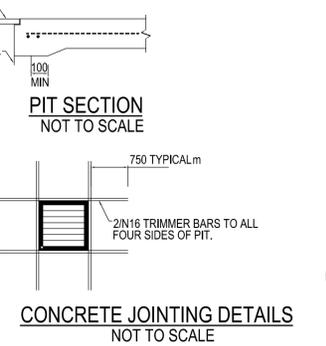
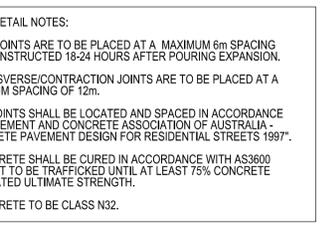
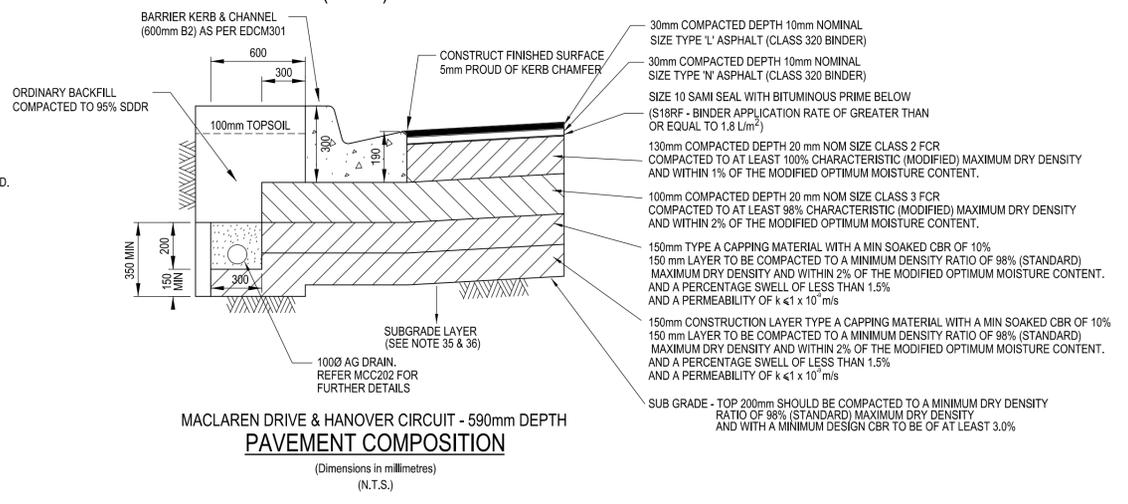


**PLAN VIEW**

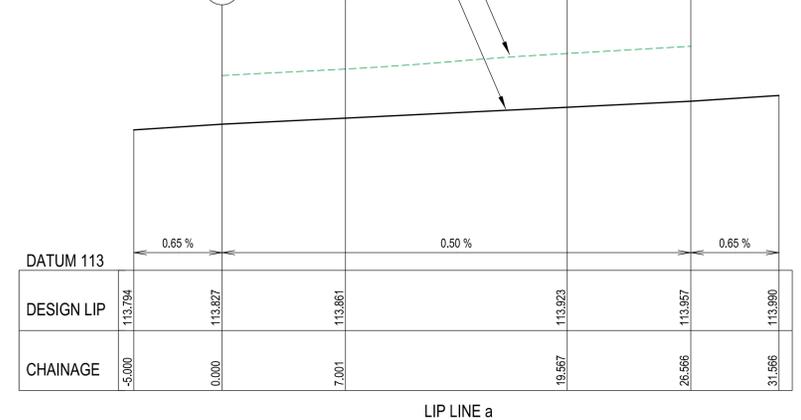
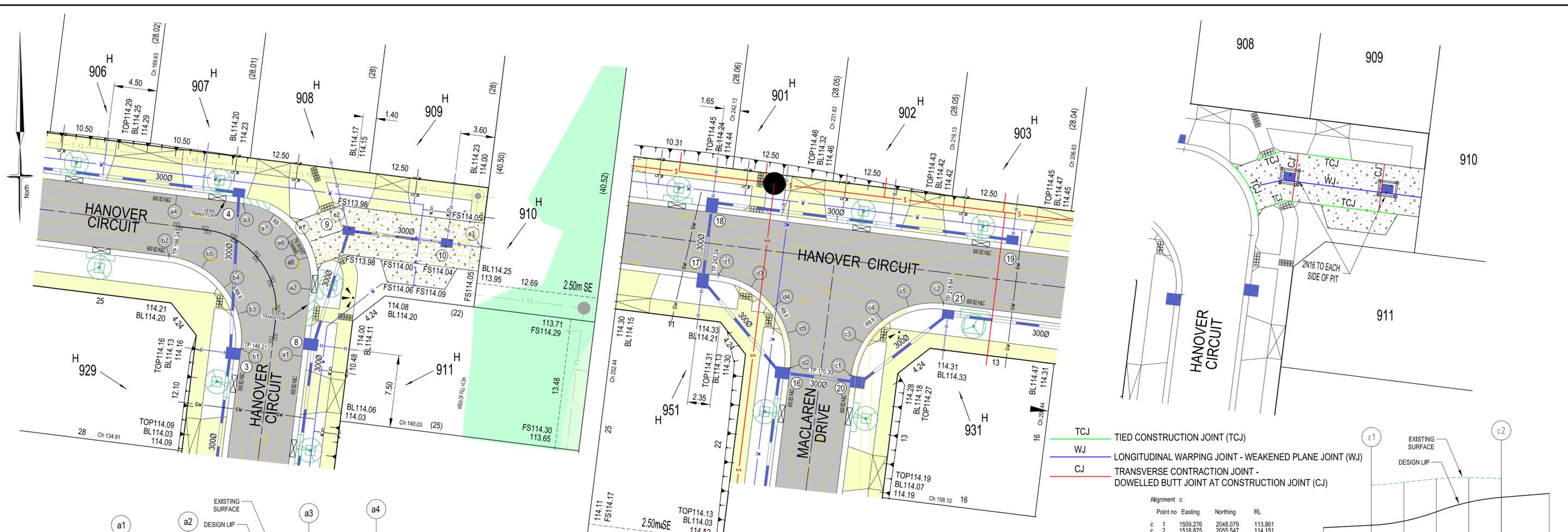


- NOTE:**
- REFER SERVICES SCHEDULE FOR OFFSETS.
  - REFER CROSS SECTION SHEETS FOR INDIVIDUAL ROAD WIDTHS AND KERB & FOOTPATH OFFSETS.

**TYPICAL CROSS SECTION (N.T.S.)**



AMENDMENTS		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF.	342-J-5	<b>ORCHARD GREEN ESTATE STAGE 9 DETAIL DESIGN</b>		MUNICIPALITY <b>MELTON</b>	
SURVEY	BPD			REFERENCE <b>7776<sup>E</sup>/9</b>	
DESIGN	D.P			SHEET <b>2 OF 10</b>	
A	20/04/21	ISSUED FOR CONSTRUCTION	DRAWN	D.P	A
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD
				DATE	FEB'21



Alignment a

Point no	Easting	Northing	RL
a 1	1584.690	2038.663	113.827
a 2	1585.558	2045.609	113.861
a 3	1578.510	2054.539	113.923
a 4	1571.665	2055.406	113.957
a 5	1585.262	2048.963	113.878
a 6	1583.933	2051.513	113.892
a 7	1581.789	2053.428	113.906

Curve no

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL	
a 2	3	8.000	11.314	2.343	1.826	113.892

Alignment b

Point no	Easting	Northing	RL
b 1	1578.340	2039.456	113.827
b 2	1570.872	2049.055	113.957
b 3	1578.023	2043.061	113.857
b 4	1576.594	2049.302	113.892
b 5	1574.289	2047.861	113.927

Curve no

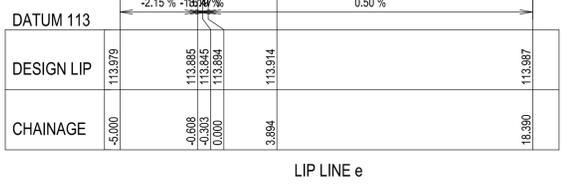
Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL	
b 1	2	8.600	12.162	2.519	1.963	113.892



- NOTES**
- ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.
  - SWLM - INDICATES SOLID WHITE "LONGLIFE" LINE MARKING  
BWLM - INDICATES BROKEN WHITE "LONGLIFE" LINE MARKING
  - ☞ ☜ ☞☜ INDICATES UNIDIRECTIONAL & BIDIRECTIONAL RRPMS PLACED AT 3.00m CTS
  - HAZARD / DIRECTIONAL TSGS SHOWN THUS ☞ ☜ AND FOOTPATH RAMP SHALL BE CONSTRUCTED IN ACCORDANCE WITH MICROADS STD DWGS SD2031 TO SD2035. TSGS SHALL CONFORM TO AS1428.4
  - KERB TRANSITION TO TAKE PLACE AT PRAM CROSSINGS AND AT KERB SHOWN THUS ☞☜ (OVER 3m)
  - VEHICULAR ACCESS TO CONSIST OF:
    - 200mm COLOURED CONCRETE USING BAYFERROX 318 BLACK OXIDE 5% BY WEIGHT MIXED THROUGH OUT BATCH CONCRETE STRENGTH TO BE 30Mpa WITH F62 REINFORCEMENT PLACED ON BOTTOM WITH 40mm COVER

Alignment e

Point no	Easting	Northing	RL
e 1	1585.292	2050.487	113.894
e 2	1588.964	2051.785	113.914
e 3	1603.348	2049.989	113.987

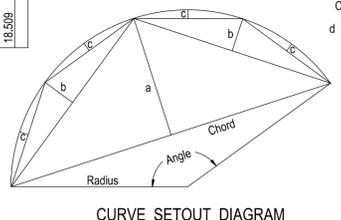


**LIP OF KERB PROFILES**  
SCALE - HORIZONTAL 1:200  
VERTICAL 1:40

**SYMBOL LEGEND**

Drains	Prop	Prev Stage	Ex Natural/FS Level	+28.57	+28.57	+28.57
Sewer < 3000	S	S	FS @ Building Line	+BL28.57	+BL28.57	+FS28.57
Water (DW)	W	W	Top/Toe of Batter	+TOP28.57	+TOP28.57	+TOE28.57
Water (NDW)	W	W	Top Ret. Wall Level	+TW28.57	+TW28.57	+TW28.57
House Drain	H	H	100yr Flood Level	+FL28.57	+FL28.57	+FL28.57
Property Inlet	P	P	Fill Proposed (<0.3m/±0.3m)			
Street Sign	S	S	Cut Proposed			
PSM	PSM	PSM	Asphalt Surface Prop			
Rock Ret Wall	R	R	Concrete Surface Prop (Paths/Driveways/Slabs)			
Sleeper Ret Wall	SW	SW	Tree To Be Removed			
Conduits 50mm	GW	GW	Tree To Be Retained with Tree Protection Zone (TPZ)			
Conduits 100mm	W100	W100				
Street Tree without/with Passive Irrigation (Refer Detail)	GT	GT				

**INTERSECTION DETAILS**  
SCALE 1:200  
SCALE 1:200 @ A1  
LENGTHS ARE IN METRES



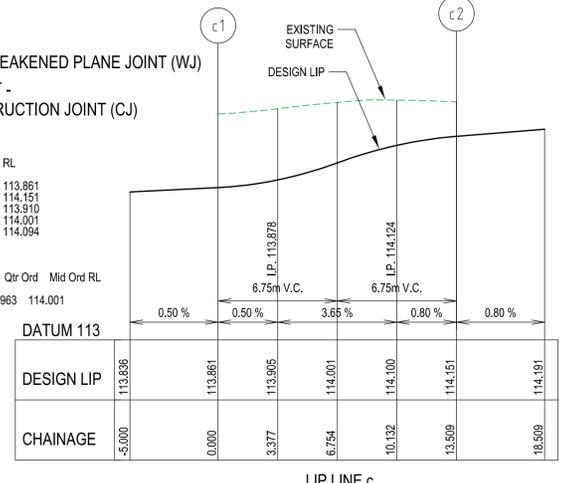
- TCJ TIED CONSTRUCTION JOINT (TCJ)
- WJ LONGITUDINAL WARPING JOINT - WEAKENED PLANE JOINT (WJ)
- CJ TRANSVERSE CONSTRUCTION JOINT - DOWELLED BUTT JOINT AT CONSTRUCTION JOINT (CJ)

Alignment c

Point no	Easting	Northing	RL
c 1	1509.276	2048.079	113.861
c 2	1518.875	2055.547	114.151
c 3	1510.470	2051.485	113.910
c 4	1512.529	2053.801	114.001
c 5	1515.270	2055.229	114.094

Curve no

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL	
c 1	2	8.600	12.162	2.519	1.963	114.001

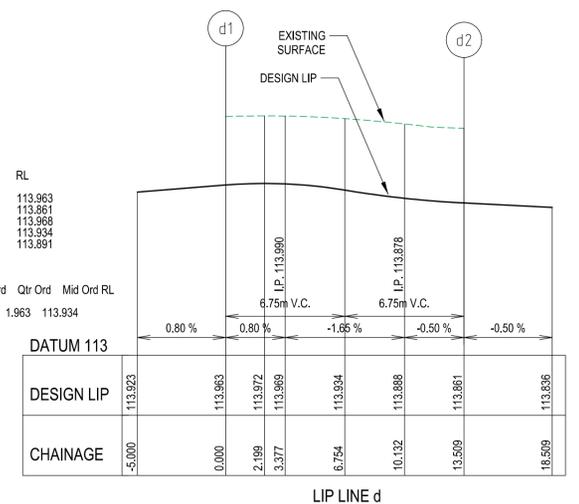


Alignment d

Point no	Easting	Northing	RL
d 1	1495.457	2058.471	113.963
d 2	1502.925	2048.871	113.861
d 3	1498.874	2057.277	113.968
d 4	1501.179	2055.216	113.934
d 5	1502.838	2052.477	113.881

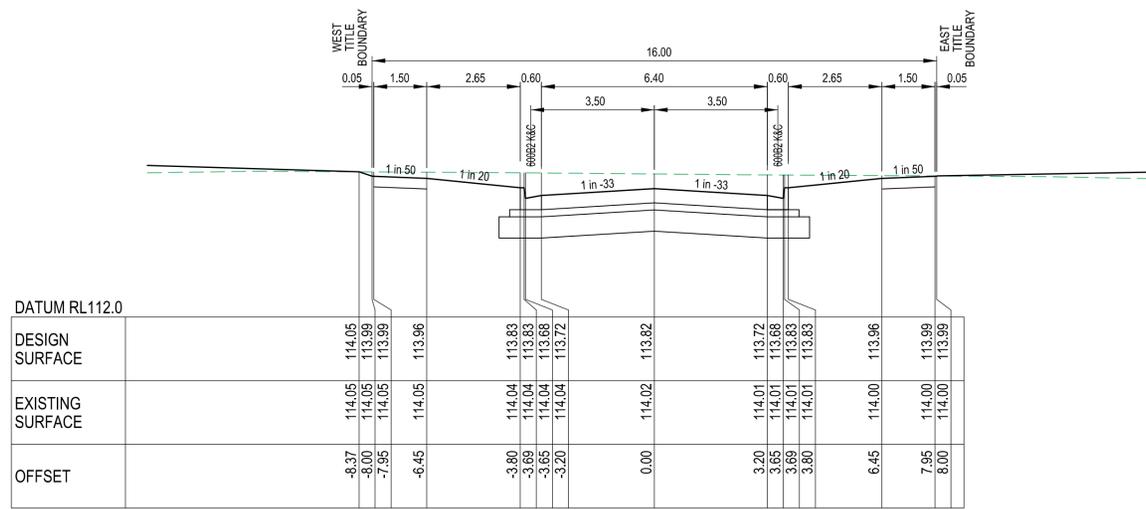
Curve no

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL	
d 1	2	8.600	12.162	2.519	1.963	113.934

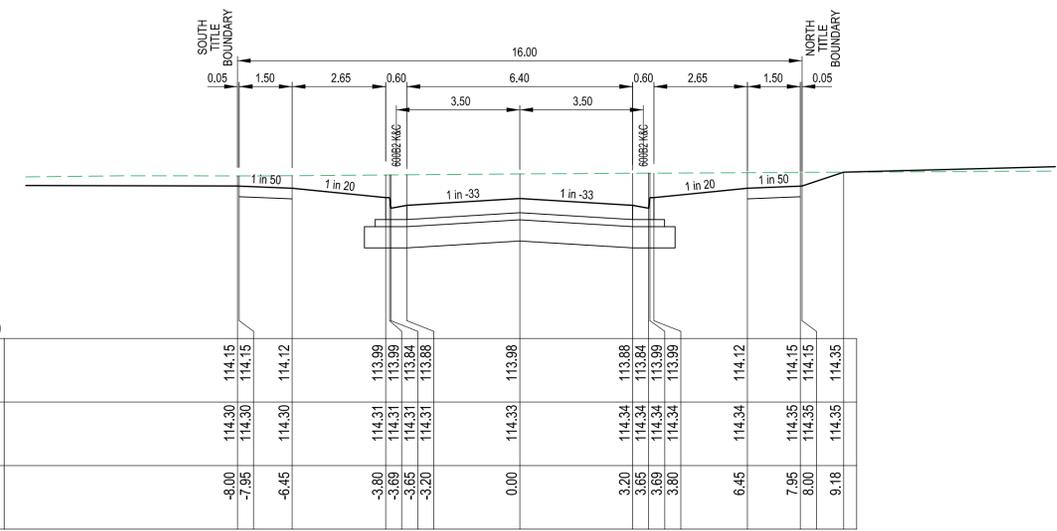


AMENDMENTS		MELWAY REF. 342-J-5		brees pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
D	20/07/21	FOOTPATH EXTENDED AT EXTENDED DRIVEWAY	SURVEY	BPD	<b>ORCHARD GREEN ESTATE STAGE 9 DETAIL DESIGN</b>		
C	09/06/21	TREE PIT LOCATION UPDATE	DESIGN	D.P			
B	18/05/21	TREE PIT LOCATION UPDATE	DRAWN	D.P			
A	20/04/21	ISSUED FOR CONSTRUCTION	CHECKED		MUNICIPALITY <b>MELTON</b>		
VER	DATE	REMARKS	SCALE AS SHOWN	DATUM AHD	DATE FEB' 21	SHEET 3 OF 10	D

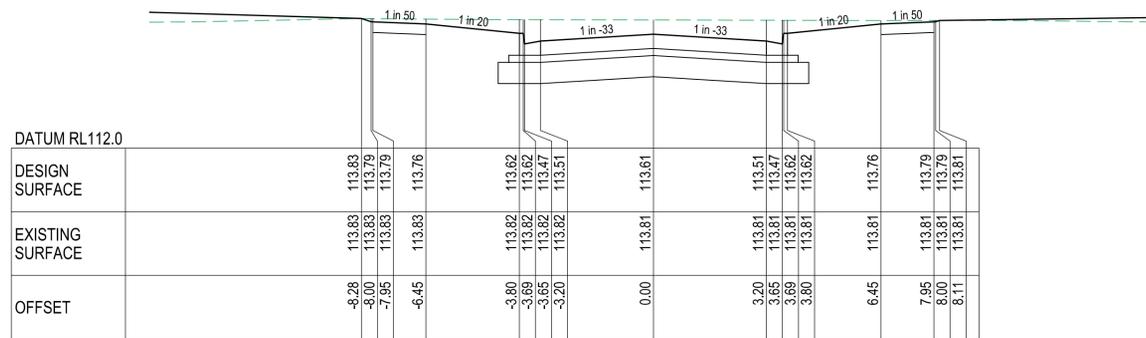




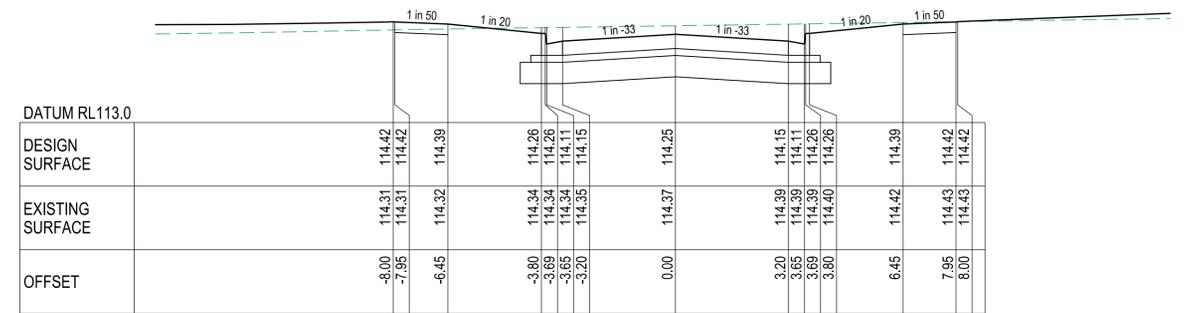
CH 129.53



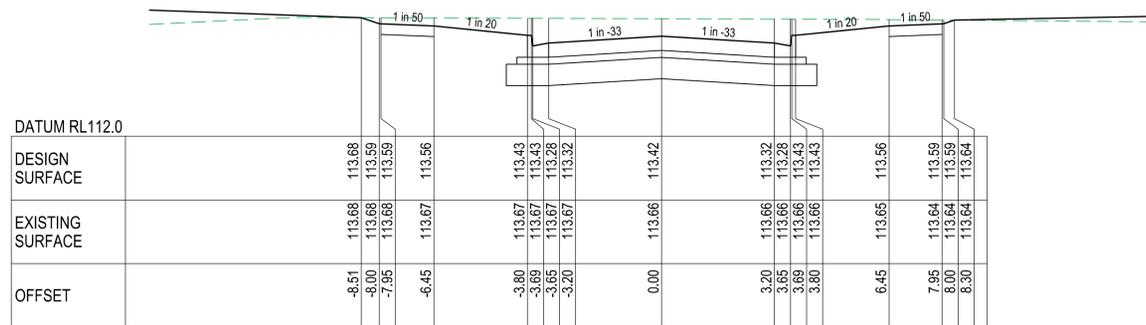
CH 252.44



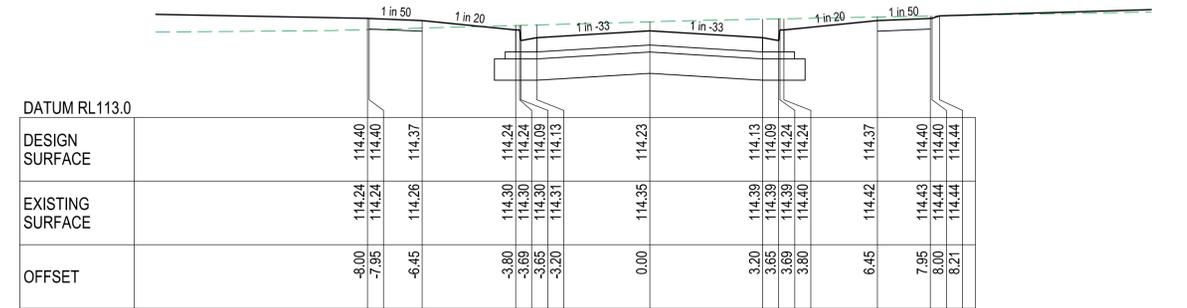
CH 98.03



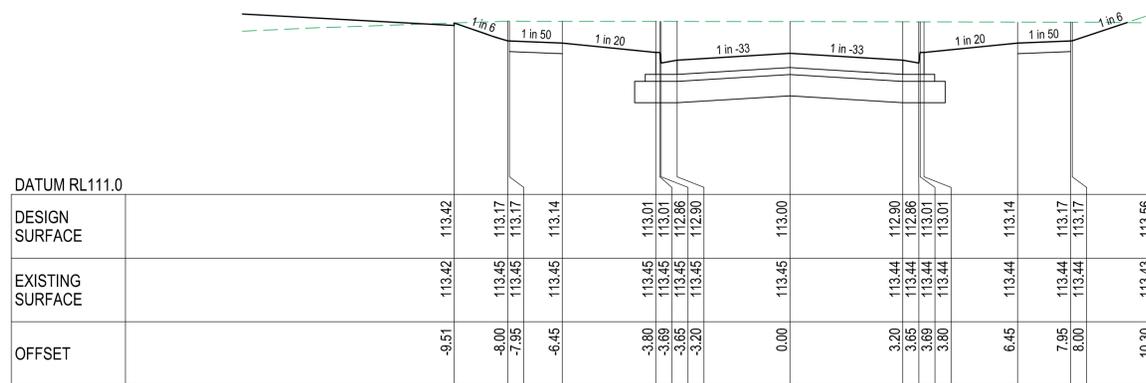
CH 218.64



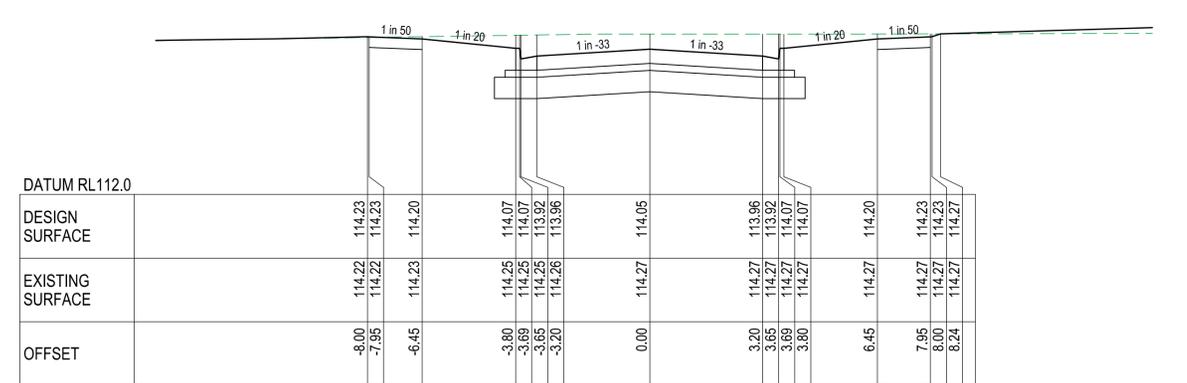
CH 67.91



CH 192.63



CH 39.91



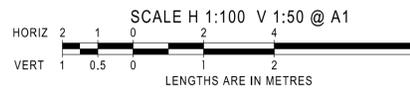
CH 166.24

**LEGEND**

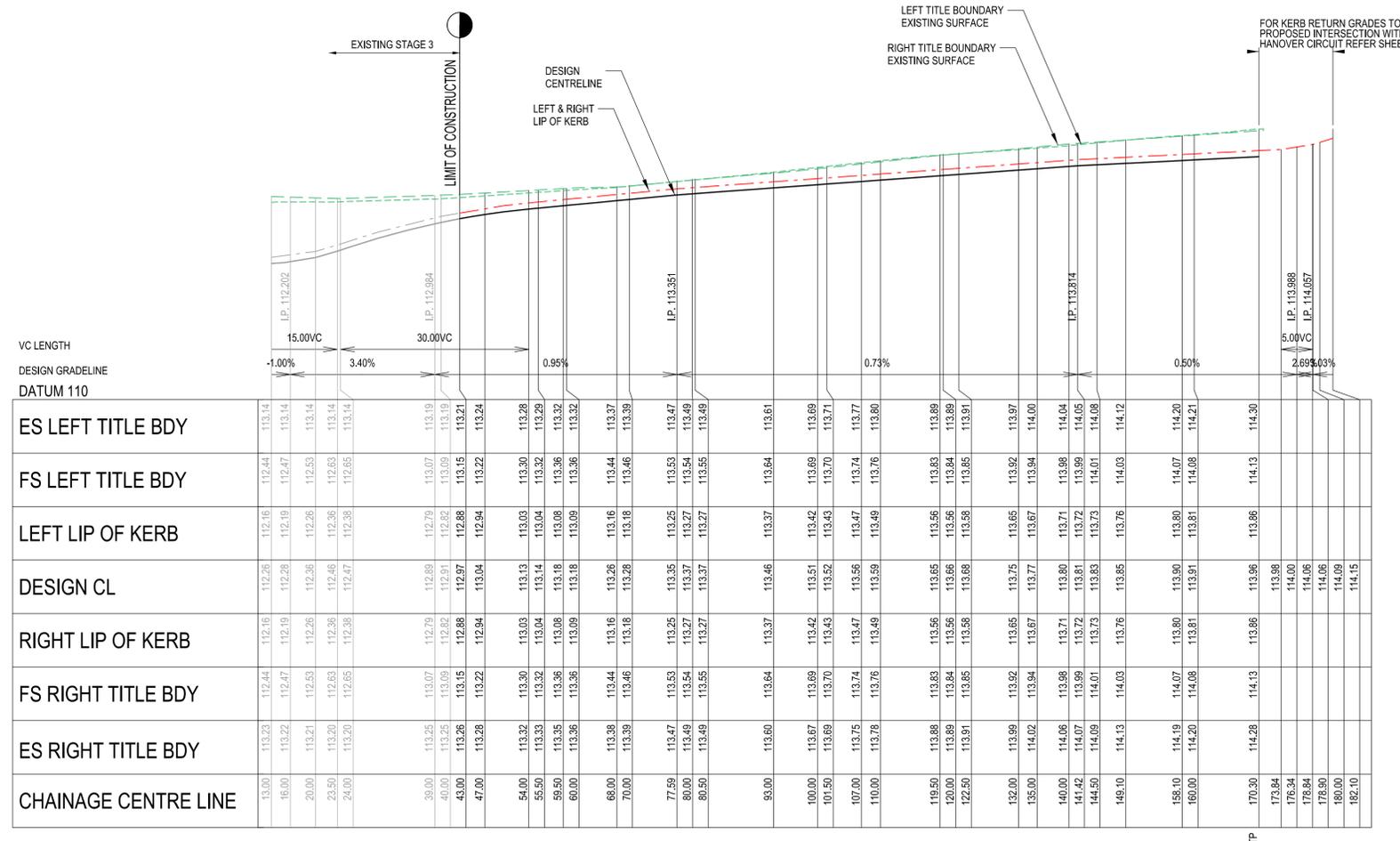
- EXISTING SURFACE
- DESIGN SURFACE
- ▨ TYPE A SELECTED MATERIAL FILL (REFER TO CONSTRUCTION NOTE 17)

**HANOVER CIRCUIT  
CROSS SECTIONS**

SCALE HORIZONTAL 1:100  
VERTICAL 1:50



AMENDMENTS		 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF. 342-J-5	<b>ORCHARD GREEN ESTATE STAGE 9 DETAIL DESIGN</b>		MUNICIPALITY MELTON
		SURVEY BPD			REFERENCE 7776 E/9
		DESIGN D.P	DRAWN D.P	SCALE AS SHOWN	DATUM AHD
A 20/04/21 ISSUED FOR CONSTRUCTION		CHECKED	DATE FEB' 21	SHEET 5 OF 10	A



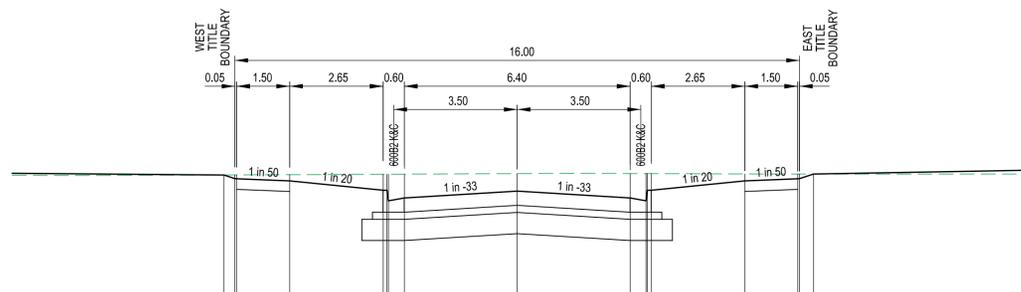
**MACLAREN DRIVE  
LONGITUDINAL SECTION**

SCALE HORIZONTAL 1:500  
VERTICAL 1:50

SCALE H 1:500 V 1:50 @ A1

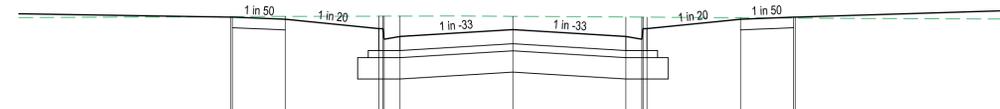


AMENDMENTS		 <b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
				MELWAY REF. 342-J-5	MUNICIPALITY MELTON
A 20/04/21 ISSUED FOR CONSTRUCTION		SURVEY BPD		ORCHARD GREEN ESTATE STAGE 9 DETAIL DESIGN	
VER DATE REMARKS		DESIGN D.P		REFERENCE 7776 <sup>E</sup> /9	
		DRAWN D.P		DATE FEB' 21	
		CHECKED		SCALE AS SHOWN DATUM AHD	
				SHEET 6 OF 10 A	



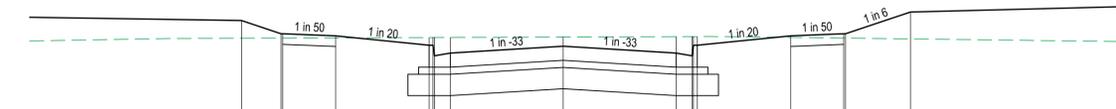
DATUM RL112.0																									
DESIGN SURFACE		113.97	113.97	113.92	113.92	113.89	113.89	113.76	113.76	113.67	113.67	113.75	113.75	113.65	113.65	113.67	113.67	113.76	113.76	113.89	113.89	113.92	113.92	113.99	113.99
EXISTING SURFACE		113.97	113.97	113.92	113.92	113.98	113.98	113.99	113.99	113.61	113.61	113.99	113.99	113.99	113.99	113.67	113.67	113.76	113.76	113.99	113.99	113.92	113.92	113.99	113.99
OFFSET		-8.31	-8.00	-7.95	-7.95	-6.45	-6.45	-3.80	-3.69	-3.65	-3.20	0.00	0.00	3.20	3.65	3.69	3.80	3.80	6.45	6.45	7.95	8.00	8.40	8.40	

CH 132.00



DATUM RL112.0																									
DESIGN SURFACE		113.70	113.70	113.67	113.67	113.54	113.54	113.52	113.52	113.43	113.43	113.52	113.52	113.43	113.43	113.67	113.67	113.70	113.70	113.69	113.69	113.70	113.70	113.69	113.69
EXISTING SURFACE		113.71	113.71	113.71	113.71	113.71	113.71	113.71	113.71	113.39	113.39	113.71	113.71	113.70	113.70	113.69	113.69	113.70	113.70	113.69	113.69	113.70	113.70	113.69	113.69
OFFSET		-8.00	-7.95	-6.45	-6.45	-3.80	-3.69	0.00	0.00	-3.65	-3.20	3.20	3.65	3.69	3.80	6.45	6.45	7.95	8.00	8.00	8.00	8.00	8.00	8.00	

CH 101.50



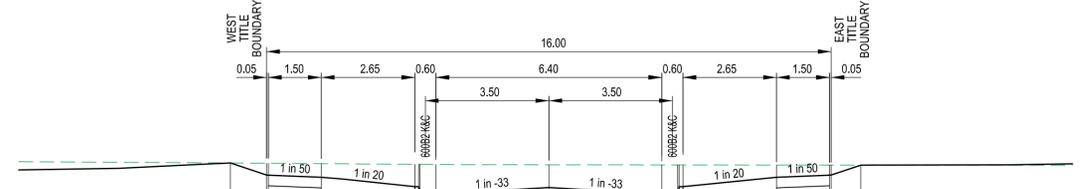
DATUM RL112.0																									
DESIGN SURFACE		113.64	113.46	113.42	113.42	113.29	113.29	113.28	113.28	113.14	113.14	113.29	113.29	113.42	113.42	113.45	113.45	113.76	113.76	113.39	113.39	113.46	113.46	113.39	113.39
EXISTING SURFACE		113.39	113.39	113.40	113.40	113.40	113.40	113.41	113.41	113.14	113.14	113.29	113.29	113.40	113.40	113.46	113.46	113.45	113.45	113.39	113.39	113.46	113.46	113.39	113.39
OFFSET		-9.12	-8.00	-6.45	-6.45	-3.80	-3.69	0.00	0.00	-3.65	-3.20	3.20	3.65	3.69	3.80	6.45	6.45	7.95	8.00	8.00	8.00	8.00	8.00	8.00	

CH 70.00



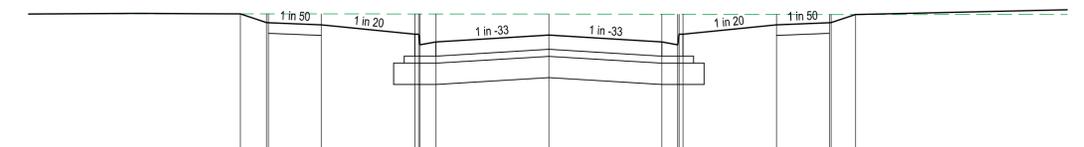
DATUM RL111.0																										
DESIGN SURFACE		113.55	113.15	113.12	112.99	112.99	112.88	112.97	112.97	112.88	112.88	112.97	112.97	113.12	113.12	112.88	112.88	113.82	113.82	113.26	113.26	113.15	113.15	113.26	113.26	
EXISTING SURFACE		113.20	113.21	113.22	113.23	113.23	113.23	113.23	113.23	112.84	112.84	113.23	113.23	113.26	113.26	113.26	113.26	113.26	113.26	113.26	113.26	113.26	113.15	113.15	113.26	113.26
OFFSET		-10.43	-8.00	-6.45	-3.80	-3.69	-3.20	0.00	0.00	-3.65	-3.20	3.20	3.65	3.69	3.80	6.45	6.45	7.95	8.00	8.00	8.00	8.00	8.00	8.00		

CH 43.00



DATUM RL112.0																									
DESIGN SURFACE		114.31	114.13	114.10	113.96	113.86	113.86	114.10	114.10	114.13	114.13	114.10	114.10	114.10	114.10	114.13	114.13	114.27	114.27	113.96	113.96	114.13	114.13	114.10	114.10
EXISTING SURFACE		114.31	114.30	114.30	114.28	114.28	114.28	114.28	114.28	114.13	114.13	114.10	114.10	114.28	114.28	114.13	114.13	114.27	114.27	114.10	114.10	114.13	114.13	114.10	114.10
OFFSET		-9.02	-8.00	-7.95	-6.45	-3.80	-3.69	0.00	0.00	-3.65	-3.20	3.20	3.65	3.69	3.80	6.45	6.45	7.95	8.00	8.00	8.00	8.00	8.00		

CH 170.30



DATUM RL112.0																									
DESIGN SURFACE		114.20	114.07	114.04	113.90	113.80	113.80	114.04	114.04	114.07	114.07	114.04	114.04	114.04	114.04	114.07	114.07	114.27	114.27	113.90	113.90	114.07	114.07	114.04	114.04
EXISTING SURFACE		114.20	114.20	114.20	114.19	114.19	114.19	114.19	114.19	114.07	114.07	114.04	114.04	114.19	114.19	114.07	114.07	114.27	114.27	114.04	114.04	114.07	114.07	114.04	114.04
OFFSET		-8.74	-8.00	-7.95	-6.45	-3.80	-3.69	0.00	0.00	-3.65	-3.20	3.20	3.65	3.69	3.80	6.45	6.45	7.95	8.00	8.00	8.00	8.00			

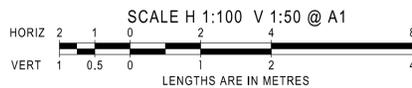
CH 158.10

**LEGEND**

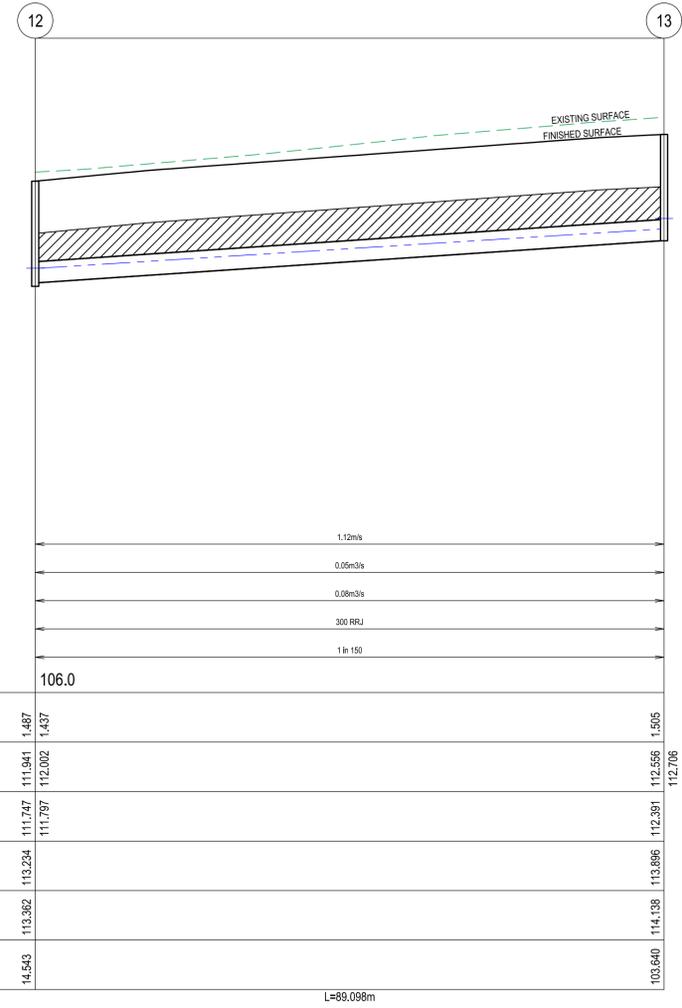
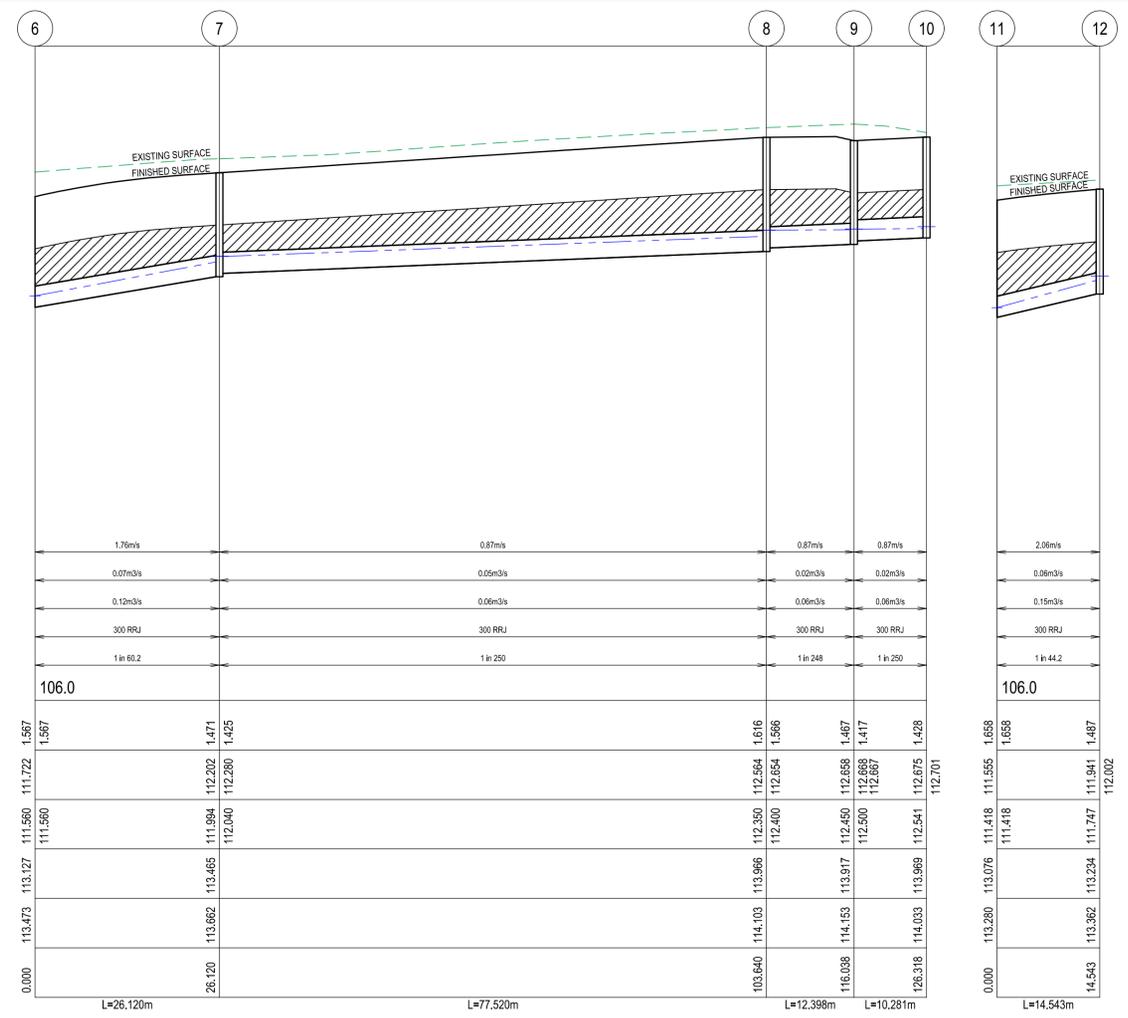
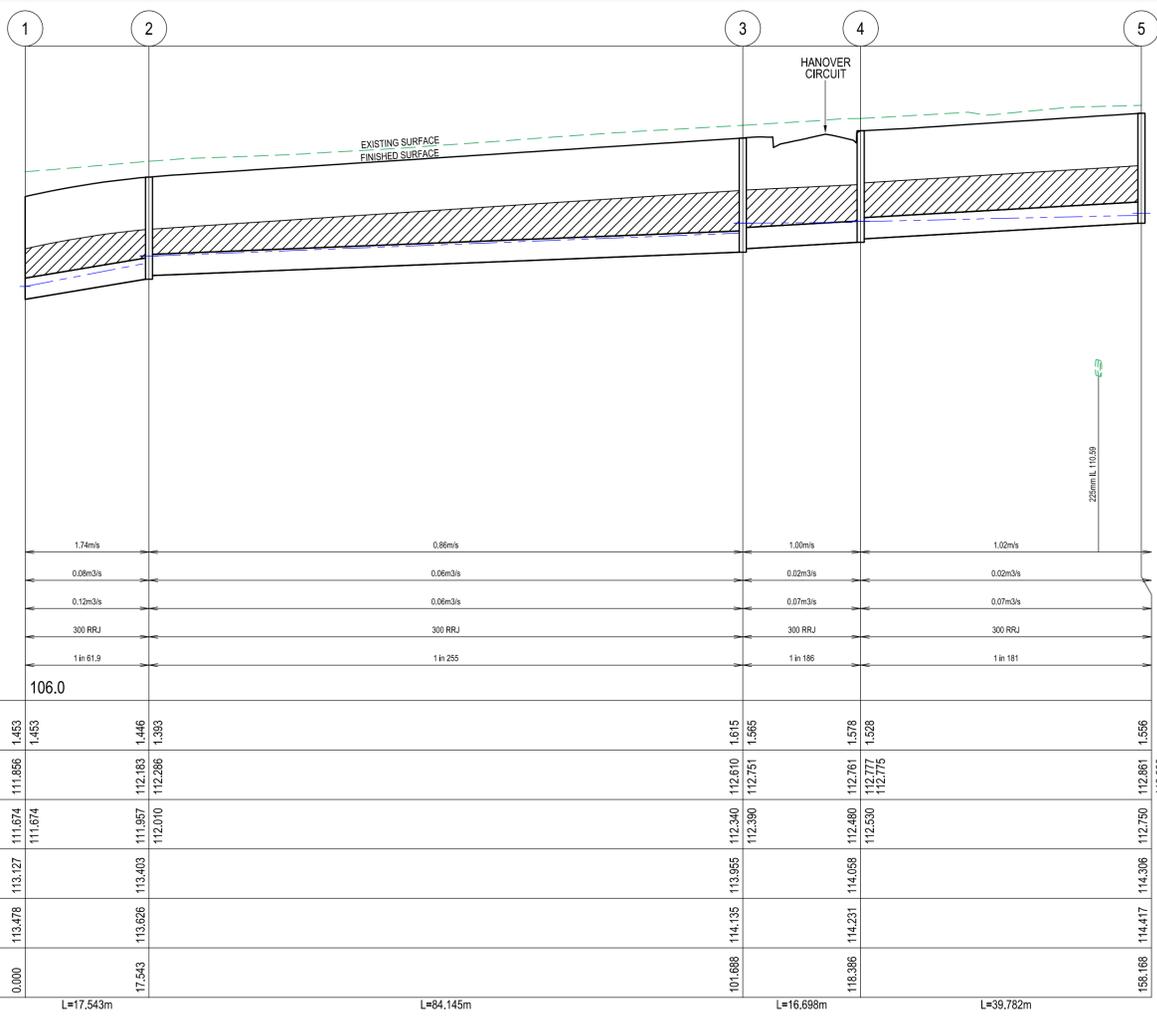
- EXISTING SURFACE
- DESIGN SURFACE
- TYPE A SELECTED MATERIAL FILL (REFER TO CONSTRUCTION NOTE 17)

**MACLAREN DRIVE  
CROSS SECTIONS**

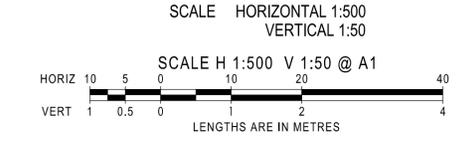
SCALE HORIZONTAL 1:100  
VERTICAL 1:50



AMENDMENTS		MELWAY REF. 342-J-5		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
A 20/04/21 ISSUED FOR CONSTRUCTION		SURVEY BPD		ORCHARD GREEN ESTATE STAGE 9 DETAIL DESIGN		MUNICIPALITY MELTON	
VER DATE REMARKS		DESIGN D.P		DRAWN D.P		REFERENCE 7776 <sup>E</sup> /9	
CHECKED		SCALE AS SHOWN		DATUM AHD		DATE FEB' 21	
		SHEET 7 OF 10		A			



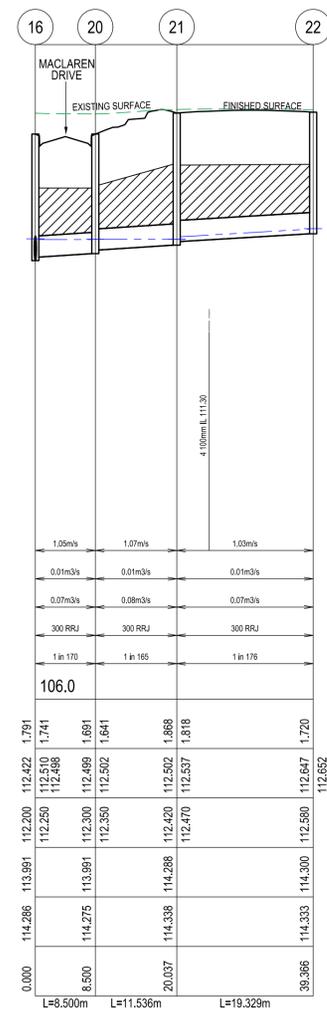
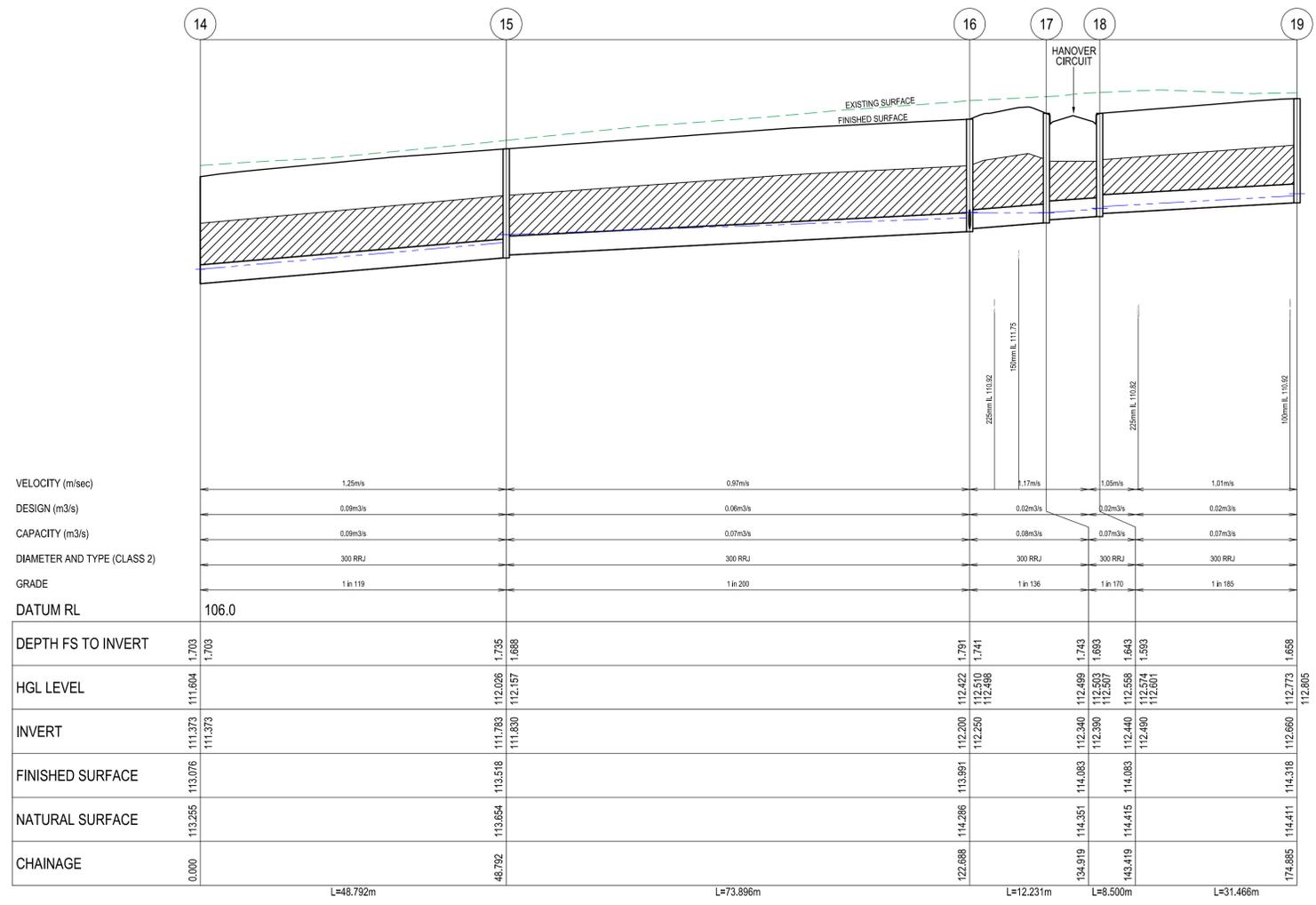
**DRAINAGE LONGITUDINAL SECTIONS**



- INDICATES CRUSHED ROCK BACKFILL
- INDICATES 5YR HGL
- INDICATES 100YR HGL
- "LDA" INDICATES PIPES WITH LARGER DEFLECTION ANGLE TO BE ORDERED
- "SL" INDICATES PIPES WITH SACRIFICIAL LINING TO BE ORDERED

AMENDMENTS				 breese pitt dixon pty. ltd. land surveyors      civil engineers	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310			
						MELWAY REF. 342-J-5	<b>ORCHARD GREEN ESTATE</b> <b>STAGE 9</b> <b>DETAIL DESIGN</b>	MUNICIPALITY MELTON
						SURVEY BPD		REFERENCE 7776 <sup>E</sup> /9
	A	20/04/21	ISSUED FOR CONSTRUCTION			DRAWN D.P	DATE FEB' 21	SHEET 8 OF 10
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD			

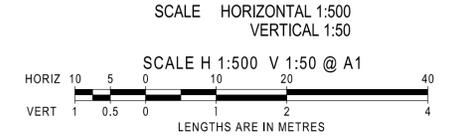
P:\7776\ENGINE\09\09\_R08\_DSL1.dgn



### PIT SCHEDULE

No.	PIT DESCRIPTION	INTERNAL		INLET		OUTLET		TOP PIT RL	DEPTH INV	REMARKS
		LENGTH	WIDTH	DIA	INVERT	DIA	INVERT			
1	PIPE END (EXISTING)	900	600	300	111.67			113.13	1.45	CONNECT TO EXISTING END PIPE
2	SIDE ENTRY PIT	900	600	300	112.01	300	111.96	113.40	1.45	VPA STD. DWG. EDCM 601
3	SIDE ENTRY PIT	900	600	300	112.39	300	112.34	113.96	1.62	VPA STD. DWG. EDCM 601
4	JUNCTION PIT	900	600	300	112.53	300	112.48	114.06	1.58	VPA STD. DWG. EDCM 605
5	JUNCTION PIT	900	600			300	112.75	114.31	1.56	VPA STD. DWG. EDCM 605
6	PIPE END (EXISTING)	900	600	300	111.56			113.13	1.57	CONNECT TO EXISTING END PIPE
7	SIDE ENTRY PIT	900	600	300	112.04	300	111.99	113.47	1.47	VPA STD. DWG. EDCM 601
8	SIDE ENTRY PIT	900	600	300	112.40	300	112.35	113.97	1.62	VPA STD. DWG. EDCM 601
9	JUNCTION PIT (GRADED COVER)	900	600	300	112.50	300	112.45	113.92	1.47	VPA STD. DWG. EDCM 605 (CLASS D LID TO BE PROVIDED)
10	JUNCTION PIT (GRADED COVER)	900	600			300	112.54	113.97	1.43	VPA STD. DWG. EDCM 605 (CLASS D LID TO BE PROVIDED)
11	PIPE END (EXISTING)	900	600	300	111.42			113.08	1.66	CONNECT TO EXISTING END PIPE
12	SIDE ENTRY PIT	900	600	300	111.80	300	111.75	113.23	1.49	VPA STD. DWG. EDCM 601
13	SIDE ENTRY PIT	900	600			300	112.39	113.90	1.51	VPA STD. DWG. EDCM 601
14	PIPE END (EXISTING)	900	600	300	111.37			113.08	1.70	CONNECT TO EXISTING END PIPE
15	SIDE ENTRY PIT	900	600	300	111.83	300	111.78	113.52	1.74	VPA STD. DWG. EDCM 601
16	SIDE ENTRY PIT	900	600	300	112.25	300	112.20	113.99	1.79	VPA STD. DWG. EDCM 601
17	SIDE ENTRY PIT	900	600	300	112.39	300	112.34	114.08	1.74	VPA STD. DWG. EDCM 601
18	SIDE ENTRY PIT	900	600	300	112.49	300	112.44	114.08	1.64	VPA STD. DWG. EDCM 601
19	JUNCTION PIT	900	600			300	112.66	114.32	1.66	VPA STD. DWG. EDCM 605
20	SIDE ENTRY PIT	900	600	300	112.35	300	112.30	113.99	1.69	VPA STD. DWG. EDCM 601
21	JUNCTION PIT	900	600	300	112.47	300	112.42	114.29	1.87	VPA STD. DWG. EDCM 605
22	JUNCTION PIT	900	600			300	112.58	114.30	1.72	VPA STD. DWG. EDCM 605

### DRAINAGE LONGITUDINAL SECTIONS



- INDICATES CRUSHED ROCK BACKFILL
- INDICATES 5YR HGL
- INDICATES 100YR HGL
- "LDA" INDICATES PIPES WITH LARGER DEFLECTION ANGLE TO BE ORDERED
- "SL" INDICATES PIPES WITH SACRIFICIAL LINING TO BE ORDERED

AMENDMENTS			<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310		
		MELWAY REF. 342-J-5		<b>ORCHARD GREEN ESTATE</b> <b>STAGE 9</b> <b>DETAIL DESIGN</b>	
		SURVEY BPD			MUNICIPALITY MELTON
		DESIGN D.P			REFERENCE 7776 <sup>E</sup> /9
A	20/04/21	ISSUED FOR CONSTRUCTION	DRAWN D.P		
VER	DATE	REMARKS	CHECKED		
			SCALE AS SHOWN DATUM AHD DATE FEB' 21 SHEET 9 OF 10 A		



NOTES  
 a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.

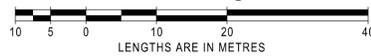
c) INDICATES UNIDIRECTIONAL & BIDIRECTIONAL RRPMS PLACED AT 3.00m CTS

d) HAZARD / DIRECTIONAL TGSIS SHOWN THUS / AND FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGSIS SHALL CONFORM TO AS1428.4

**SIGNAGE & LINEMARKING PLAN**

SCALE 1:500

SCALE 1:500 @ A1



SIGNAGE LEGEND

- A STREET SIGNS
- B NO ROAD



				breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS	D	20/07/21	FOOTPATH EXTENDED AT EXTENDED DRIVEWAY	MELWAY REF.	342-J-5	<b>ORCHARD GREEN ESTATE STAGE 9 DETAIL DESIGN</b>	
	C	09/06/21	TREE PIT LOCATION UPDATE	SURVEY	BPD		
	B	18/05/21	TREE PIT LOCATION UPDATE	DESIGN	D.P	REFERENCE 7776 <sup>E</sup> /9	
	A	20/04/21	ISSUED FOR CONSTRUCTION	DRAWN	D.P	SHEET 10 OF 10	
VER	DATE	REMARKS	CHECKED	SCALE	DATUM	AHD	DATE
				AS SHOWN	AHD		FEB' 21