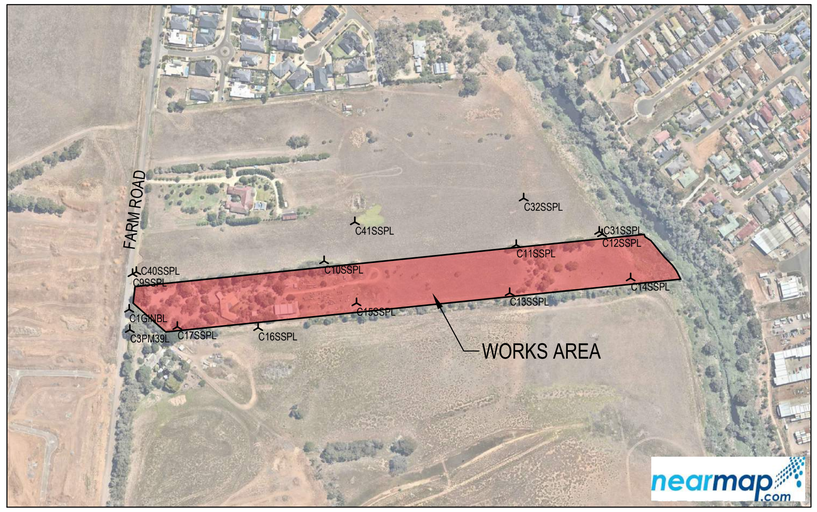
Farm Road, Werribee
Stage 1



Drawing Index

GENERAL NOTES (WYNDHAM CITY COUNCIL)

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDCM ADDENDUM 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. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND 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 RELEVENT 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.
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. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS E,G,H,R,T&W ABOVE CONDUIT LOCATIONS AS SPECIFIED. RESPECTIVE LETTERS TO BE INDICATED ABOVE RELEVANT CONDUITS AS PER STANDARD DRAWING EDCM 303. CONDUITS TO BE PLACED MINIMUM OF 5m FROM BOUNDARIES WHERE POSSIBLE AND TO THE SATISFACTION OF THE SUPERINTENDENT IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
9. SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL AS PER STANDARD DRAWINGS EDCM 202.
10. ALL LINEMARKING, SIGNING AND TRAFFIC CONTROL DEVICES TO BE IN ACCORDANCE WITH VICROADS REQUIREMENTS WITH LATERAL WORKS AND ARROWSBEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGAOUR OR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VICROADS SPECIFICATION SEE SECTION 710&722).
11. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
12. THE CONTRACTOR WHEN ENGAGED IN BLASTING OPERATION, SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE ENGINEER.
13. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES SHALL BE SURFACED WITH A 100mm MINIMUM TO 200mm MAXIMUM LAYER OF TOPSOIL AS SPECIFIED. ALL FILLING ON ALLOTMENTS TO BE COMPACTED TO 95% STANDARD COMPACTION IN 150mm LAYERS AND AS PER THE SPECIFICATION. WHERE THERE IS FILL IN EXCESS OF 300mm IN DEPTH, THE CONTRACTOR IS TO CARRY OUT SOIL TESTS TO THE REQUIREMENTS OF APPENDIX B AS SPECIFIED IN THE AUSTRALIAN STANDARD AS 3798-1996 TO SHOW THAT LEVEL 1 COMPACTION STANDARDS HAVE BEEN ACHIEVED. TEST RESULTS AND LOCATION OF TESTS FOR EACH ALLOTMENT SHALL BE APPROVED BY THE CONTRACTOR AND FORWARDED TO COUNCIL.
14. FILL MATERIAL USED UNDER PAVEMENTS AND FOOTPATHS MUST BE AN APPROVED MATERIAL TO THE STANDARD OF WYNDHAM CITY COUNCIL. ALL SUTCH MATERIAL IS TO BE COMPACTED AS PER THE REQUIREMENTS OF THE SPECIFICATION APPROVED WITH THESE DRAWINGS PRIOR TO FORMWORK BEING PLACED. COMPACTION TESTS TO BE COMPLETED AND PROVIDED TO SUPERINTENDENT.
15. FILL & CUT BATTERS ARE NOT TO EXCEED 1 in 6 SLOPE, UNLESS SHOWN OTHERWISE.
16. ALL ALLOTMENTS SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE WITH A MINIMUM FALL OF 1 in 150 TO THE DRAINAGE OUTLET SHOWN
17. ALL DRAINAGE PIPES ARE CLASS 2 RCP PIPES, RUBBER RING JOINTED UNLESS OTHERWISE SPECIFIED.
18. DRAINAGE PITS SHALL BE CAST MONOLITHICALLY. CEMENT RENDER SHALL ONLY BE USED TO REPAIR DEFECTS.
19. BACKFILLING OF TRENCHES WHERE DRAINAGE AND SEWERAGE ARE IN CLOSE PROXIMITY ARE TO BE BACKFILLED AS PER WYNDHAM CITY COUNCIL STANDARD DRAWING SD6-10.
20. ALL SERVICING TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 2 F.C.R.
21. ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 5.00m FROM THE SIDE BOUNDARY.
22. INVERT OF PROPERTY INLETS TO BE 500mm MINIMUM BELOW FINISHED SURFACE UNLESS NOTED OTHERWISE.
23. VEHICLE CROSSINGS ARE TO BE PROVIDED AT 1m FROM SIDE BOUNDARY UNLESS OTHERWISE SHOWN IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARD DRAWINGS
24. ADDITIONAL AND OVEREXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
25. FOOTPATH CROSSFALL TO BE 1:100
26. ALL EXOTIC (NON NATIVE) TREES AND SHRUBS, INCLUDING DEAD TREES, NOT SHOWN ON THE DRAWINGS BUT LOCATED WITHIN THE WORKS ARE TO BE REMOVED AND DISPOSED OFFSITE.
27. INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRRPM) ON ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE LOCATION OF FIREPLUG.
28. THE CONTRACTOR IS TO ENSURE THAT THEIR CONSTRUCTION PROCEDURES AND STANDARDS CONTROL THE VOLUME AND LOCATION FOR COLLECTION OF SEDIMENT RUNOFF ACCORDING TO CURRENT EPA - ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES.
29. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED AND ALL RUBBISH REMOVED. THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
30. EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL ENGINEER.
31. THE LOWER SUB-BASE MATERIAL SHALL WILL BE N.D.C.R. FOR PAVEMENT MAKE UPS AS PER THE STANDARD DRAWINGS OF WYNDHAM CITY COUNCIL.
32. TOTAL LENGTH OF ROADS CONSTRUCTED IS 626 m
    TOTAL LENGTH OF DRAINS CONSTRUCTED IS 1140 m

TXU (GAS) - STANDARD NOTES

1. GAS MAINS, FITTINGS AND MARKER TAPE ARE TO BE SUPPLIED BY TXU (GAS).
2. EXCAVATION, SUPPLY AND PLACEMENT OF REQUIRED BACKFILL TO BE BY OTHERS.
3. TWO WEEKS OF NOTIFICATION OF COMMENCEMENT OF EXCAVATION WORKS SHALL BE GIVEN TO THE DISTRICT CENTRE.

REINFORCED CONCRETE PIPE

1. ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-2007, LOADS ON BURIED PIPES.
2. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPLACED & RELAID AT THE CONTRACTOR'S COST.

SURVEY CONTROL POINTS				
POINT	EASTING	NORTHING	RL (AHD)	DESCRIPTION
C9SSPL	293237.37	5800882.04	18.22	STEEL STAR PICKET
C1GINBL	293232.99	5800836.16	18.13	
C17SSPL	293295.18	5800813.68	17.93	STEEL STAR PICKET
C16SSPL	293399.60	5800812.32	17.70	STEEL STAR PICKET
C15SSPL	293526.61	5800844.33	17.43	STEEL STAR PICKET
C13SSPL	293724.57	5800857.37	17.20	STEEL STAR PICKET
C11SSPL	293733.04	5800919.59	17.22	STEEL STAR PICKET
C32SSPL	293742.64	5800979.67	17.29	STEEL STAR PICKET
C31SSPL	293840.20	5800936.67	12.09	STEEL STAR PICKET
C12SSPL	293843.88	5800933.43	12.03	STEEL STAR PICKET
C14SSPL	293880.79	5800876.52	11.83	STEEL STAR PICKET
C40SSPL	293242.18	5800884.63	18.26	STEEL STAR PICKET
C10SSPL	293484.83	5800898.68	17.92	STEEL STAR PICKET
C41SSPL	293524.55	5800949.00	17.61	STEEL STAR PICKET
C3PM39L	293233.84	5800809.86	18.08	PERMANENT MARK

ROAD LAYOUT TABLE									
ROAD NAME	ROAD CLASSIFICATION	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
FILLY STREET (LOT 1 - LOT 3)	AS1	16.00	6.40	7.30	7.60	B2	B2	5.65	3.05
FILLY STREET (LOT 3 - LOT 4)	AS1	16.00	6.40	7.30	7.60	B2	B2	5.65	3.05
GELDING BOULEVARD	AS1	16.00	4.60	5.50	5.80	B2	B2	5.60	4.90
SADDLEBRED AVENUE	AS1	16.00	6.40	7.30	7.60	B2	B2	4.50	4.20
SADDLEBRED AVENUE (EXTENDED DRIVEWAY)	AL	10.00	3.50	-	3.50	B2	B2	3.25	3.25
PHIPPS ROAD	AS1	16.00	6.40	7.30	760	B2	B2	4.20	4.50
BRIDLE STREET	AS1	16.00	6.40	7.30	7.60	B2	B2	4.20	4.50
YEARLING PROMENADE	AS1	14.50	6.40	7.30	7.60	B2	B2	4.50	2.70

SERVICES OFFSET SCHEDULE										
ROAD NAME	GAS		WATER		RECYCLED WATER		ELECTRICITY		OPTIC FIBRE	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
FILLY STREET (LOT 1 - LOT 3)	NORTH	1.80	NORTH	2.80	NORTH	2.30	NORTH	4.30	NORTH	3.5
FILLY STREET (LOT 3 - LOT 4)	WEST	1.80	WEST	2.80	WEST	2.30	WEST	4.30	WEST	3.5
GELDING BOULEVARD	SOUTH	1.75	SOUTH	2.70	SOUTH	2.20	NORTH	3.95	SOUTH	3.25
SADDLEBRED AVENUE	WEST	2.10	WEST	3.10	WEST	2.60	EAST	2.60	EAST	1.80
SADDLEBRED AVENUE (EXTENDED DRIVEWAY)	WEST	1.00	WEST	2.00	WEST	1.50	EAST	2.60	EAST	1.80
PHIPPS ROAD	SOUTH	2.10	SOUTH	3.10	SOUTH	2.60	NORTH	2.60	NORTH	1.80
BRIDLE STREET	WEST	2.10	WEST	3.10	WEST	2.60	EAST	2.60	EAST	1.80
YEARLING PROMENADE	WEST	2.10	WEST	3.10	WEST	2.60	EAST	1.10	EAST	0.30

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. 2052E-01-85
ASSESS THE RISK - STAY SAFE

WARNING
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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

SCALE AS SHOWN AT A1

N

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Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Cover Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-01	01 of 25	0

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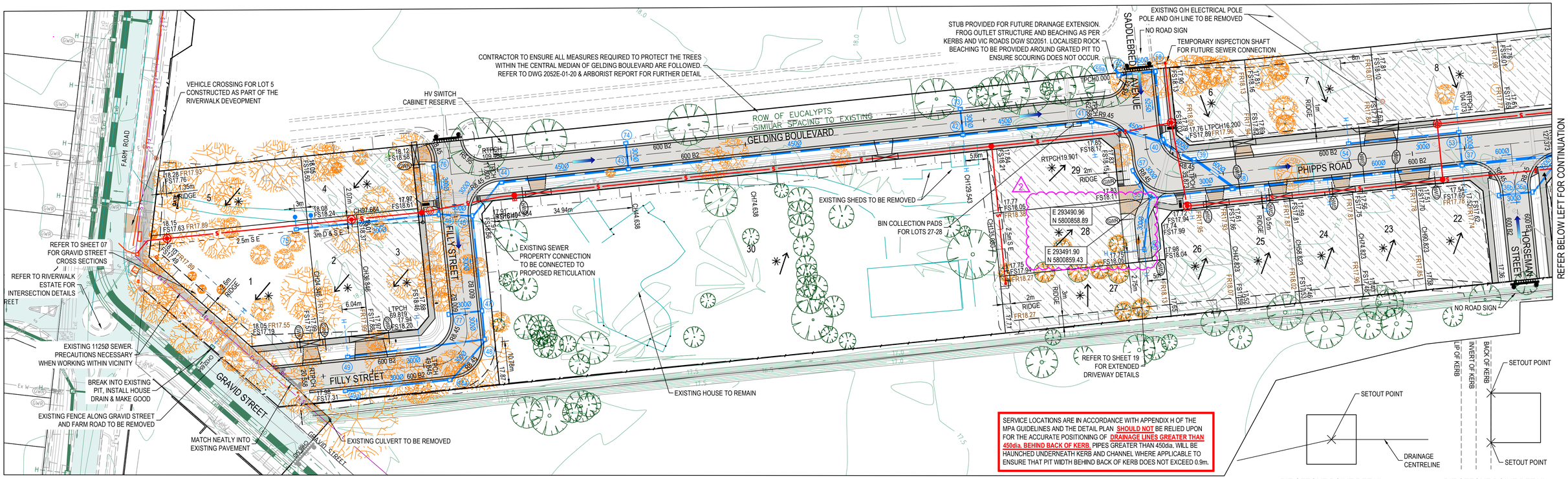

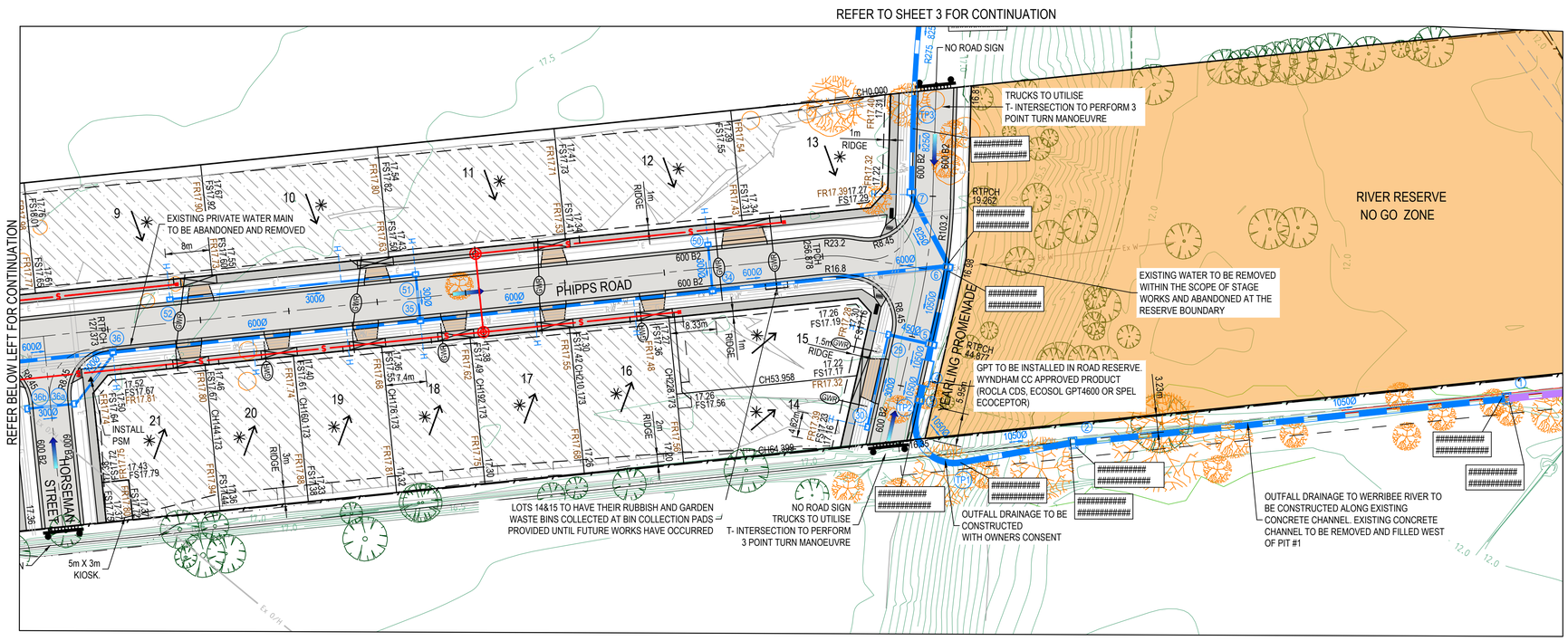

LEGEND - LAYOUT PLAN

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
Ex H	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
Ex 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
GW	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
Fut 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
GW	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

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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV
1	18.02.19	DRAINAGE INTERFACE AMENDED	NG	LV
2	19.05.07	PIT 55 COORDINATE ADDED	HE	LV

ISSUED FOR CONSTRUCTION

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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SCALE AS SHOWN AT A1

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YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Layout Plan - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-02	02 of 25	2

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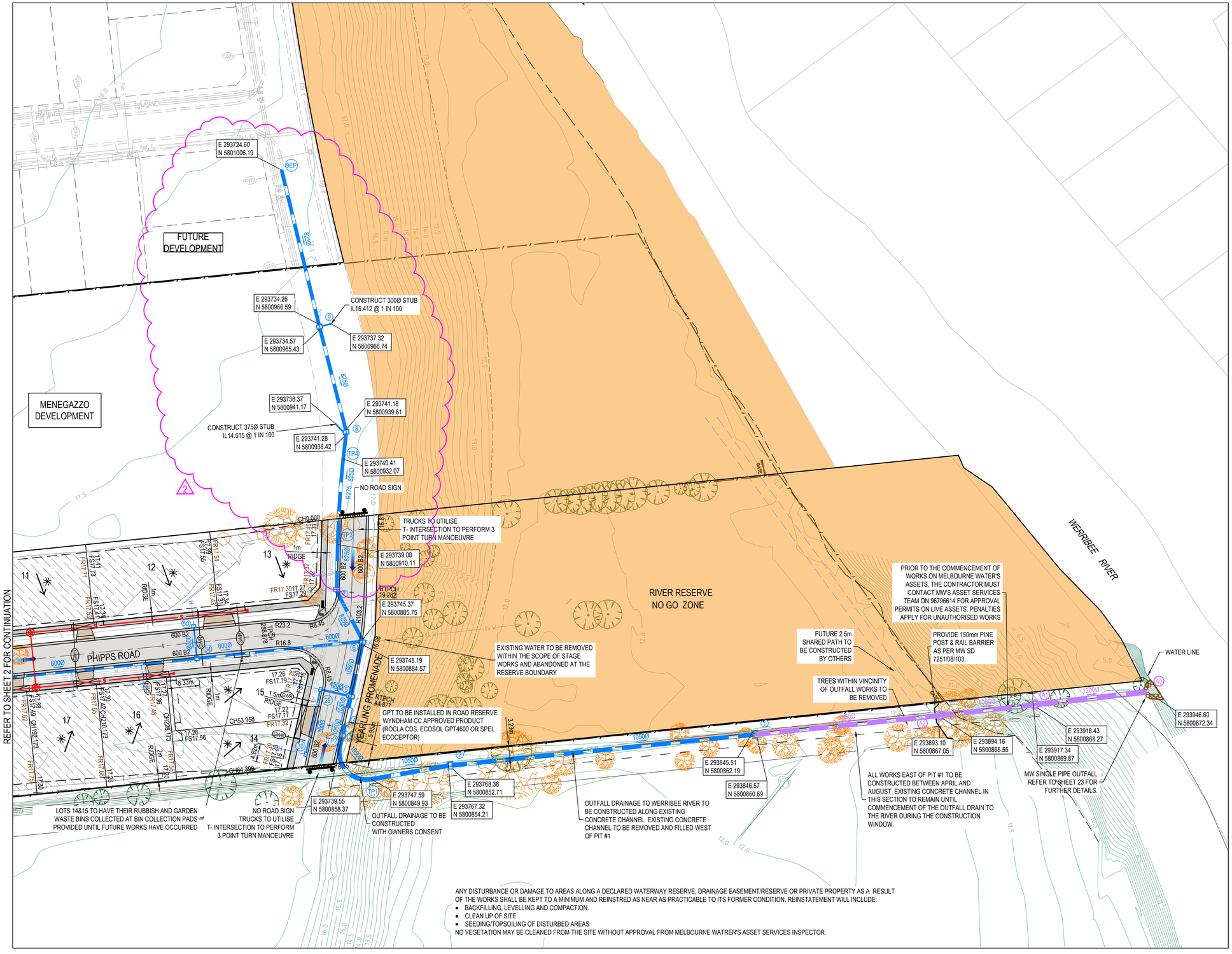

NO GO ZONE for Power Poles

Anywhere above Power Line and Within 3m each side or below See Special Provisions

Open Area Outside 6.4m of Power Lines | Spotter Required Between 3-6.4m of Power Lines | 3m | 3m | 3m | Spotter Required Between 3-6.4m of Power Lines | Open Area Outside 6.4m of Power Lines

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SERVICE LOCATIONS ARE IN ACCORDANCE WITH APPENDIX H OF THE MPA GUIDELINES AND THE DETAIL PLAN SHOULD NOT BE RELIED UPON FOR THE ACCURATE POSITIONING OF DRAINAGE LINES GREATER THAN 450dia. BEHIND BACK OF KERB. PIPES GREATER THAN 450dia. WILL BE HAUNCHED UNDERNEATH KERB AND CHANNEL WHERE APPLICABLE TO ENSURE THAT PIT WIDTH BEHIND BACK OF KERB DOES NOT EXCEED 0.9m.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV
1	22.01.19	ISSUED FOR CONSTRUCTION	NG/HE	LV
2	18.02.19	DRAINAGE INTERFACE AMENDED	NG	LV

ISSUED FOR CONSTRUCTION

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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Layout Plan - 2
Drainage Outfall Works

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-03	03 of 25	2

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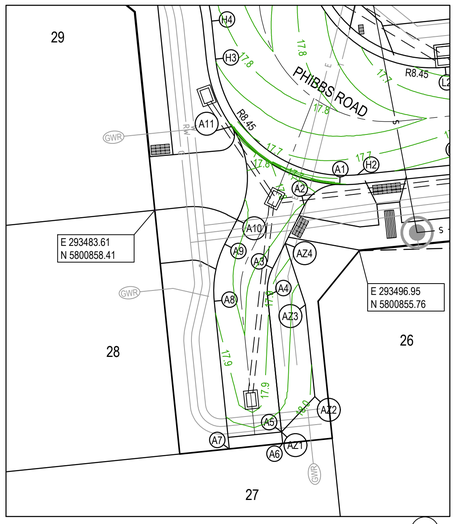

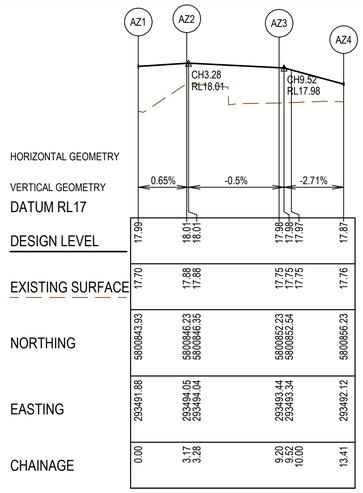

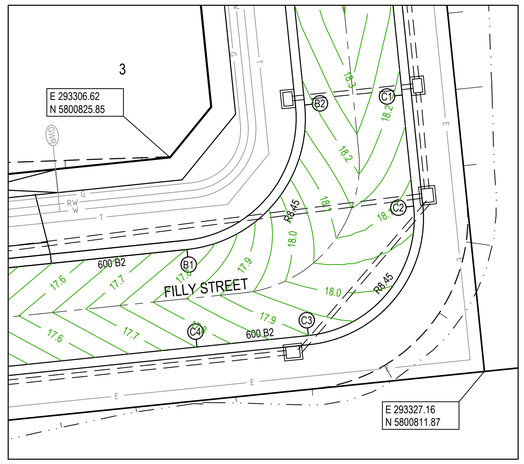

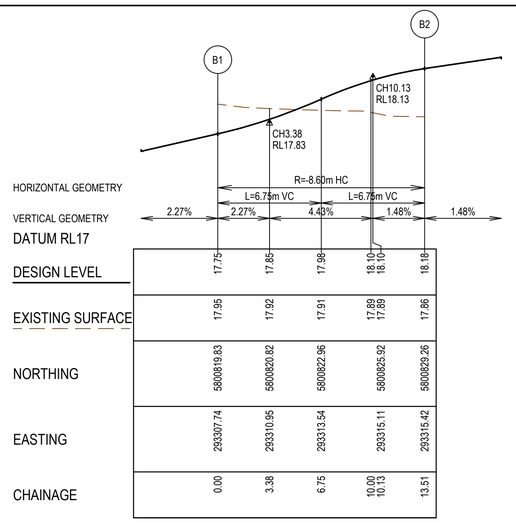

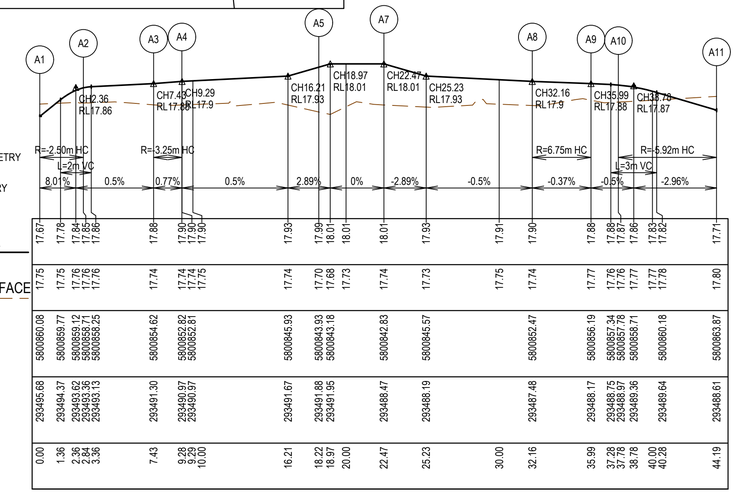

DESIGN LEVEL	17.99	18.01	18.01	17.98	17.98	17.97	17.87
EXISTING SURFACE	17.70	17.88	17.88	17.75	17.75	17.75	17.76
NORTHING	5800843.93	5800846.23	5800846.35	5800852.23	5800852.54		5800856.23
EASTING	293491.88	293494.05	293494.04	293493.44	293493.34		293492.12
CHAINAGE	0.00	3.17	3.28	9.20	9.52	10.00	13.41

LIP LINE AZ

DESIGN LEVEL	17.75	17.85	17.98	18.10	18.10	18.18
EXISTING SURFACE	17.95	17.92	17.91	17.89	17.89	17.86
NORTHING	5800819.83	5800820.82	5800822.96		5800825.92	5800829.26
EASTING	293307.74	293310.95	293313.54		293315.11	293315.42
CHAINAGE	0.00	3.38	6.75	10.00	10.13	13.51

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

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.

DESIGN LEVEL	17.67	17.78	17.84	17.85	17.86	17.88	17.90	17.90	17.90	17.93	17.99	18.01	18.01	18.01	17.93	17.91	17.90	17.88	17.88	17.87	17.86	17.83	17.82	17.71
EXISTING SURFACE	17.75	17.75	17.76	17.76	17.76	17.74	17.74	17.74	17.75	17.74	17.70	17.68	17.73	17.74	17.73	17.75	17.74	17.77	17.76	17.76	17.77	17.77	17.78	17.80
NORTHING	5800860.08	5800859.77	5800859.12	5800858.71	5800858.25	5800854.62	5800852.82	5800852.81		5800845.93	5800843.93	5800843.18		5800842.83	5800845.57		5800852.47	5800856.19	5800857.34	5800857.78	5800858.71		5800860.18	5800863.87
EASTING	293495.68	293494.37	293493.62	293493.36	293493.13	293491.30	293490.97	293490.97		293491.67	293491.88	293491.95		293488.47	293488.19		293487.48	293488.17	293488.75	293488.97	293489.36		293489.64	293488.61
CHAINAGE	0.00	1.36	2.36	2.84	3.36	7.43	9.28	9.29	10.00	16.21	18.22	18.97	20.00	22.47	25.23	30.00	32.16	35.99	37.28	37.78	38.78	40.00	40.28	44.19

LIP LINE A

DESIGN LEVEL	18.18	18.08	18.07	18.04	17.99	17.90	17.89	17.89	17.75	17.68
EXISTING SURFACE	17.88	17.85	17.84	17.82	17.87	17.93	17.94	17.94	17.87	
NORTHING	5800829.91	5800823.28	5800822.65		5800817.01	5800814.21		5800814.14	5800813.46	
EASTING	293321.79	293322.47	293322.53		293320.84	293315.66		293315.03	293308.40	
CHAINAGE	0.00	6.67	7.30	10.00	13.35	19.40	20.00	20.02	26.70	30.00

LIP LINE C

DESIGN LEVEL	18.08	18.12	18.21	18.30	18.30	18.34
EXISTING SURFACE	17.90	17.91	17.92	17.93	17.93	17.90
NORTHING	5800863.83	5800862.86	5800860.77		5800857.85	5800854.55
EASTING	293326.96	293323.79	293321.22		293319.63	293319.27
CHAINAGE	0.00	3.34	6.68	10.00	10.02	13.36

LIP LINE D

DESIGN LEVEL	18.28	18.29	18.32	18.33	18.37	18.41
EXISTING SURFACE	18.03	18.04	18.10	18.05	18.02	
NORTHING	5800866.90	5800868.72	5800874.62		5800876.40	
EASTING	293311.57	293311.38	293308.13		293301.95	
CHAINAGE	0.00	1.83	8.75	10.00	15.34	20.00

LIP LINE E

DESIGN LEVEL	18.25	18.24	18.24	18.23	18.19	18.17	18.12	18.10	18.08	18.07
EXISTING SURFACE	17.96	17.95	17.95	17.95	17.94	17.93	17.91	17.89	17.89	
NORTHING	5800878.29	5800875.32	5800874.45	5800873.50	5800870.89		5800868.28	5800868.14	5800868.41	
EASTING	293320.35	293317.25	293317.23	293317.33	293318.23		293321.90	293323.90	293326.49	
CHAINAGE	0.00	4.62	5.50	6.45	9.24	10.00	13.86	15.87	18.47	20.00

LIP LINE F

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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OHS Management · AS/NZS 4801 · Global-Mark.com.au®
Environmental Management · ISO14001 · Global-Mark.com.au®

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

N

SMEC
Member of the Surbana Jurong Group
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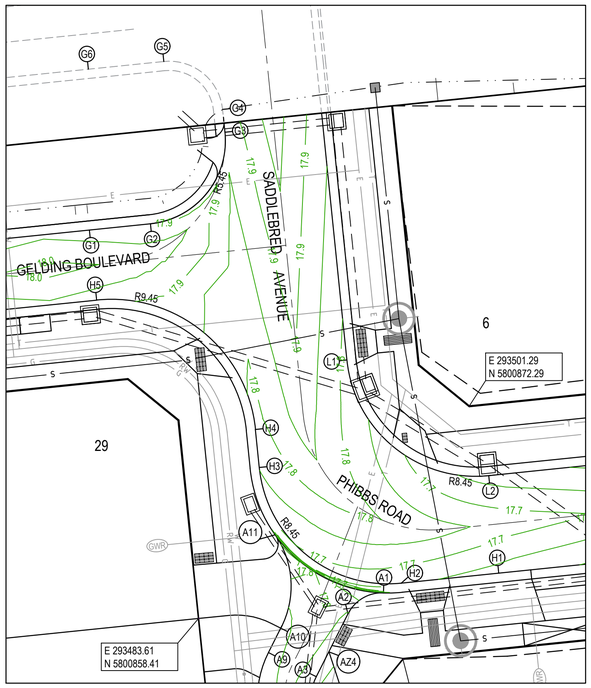
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

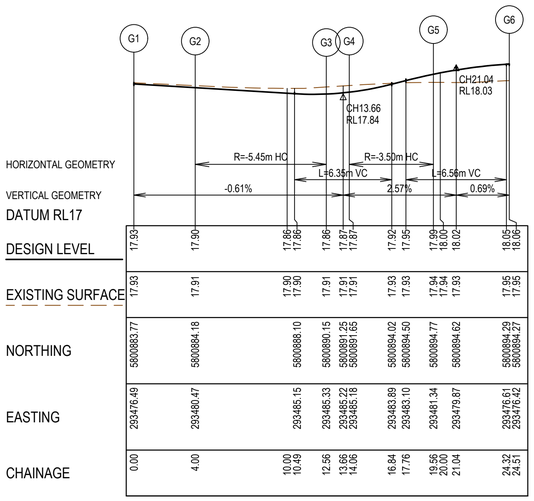
YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Intersection Detail Plan
& Lip Profiles - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-04	04 of 25	0

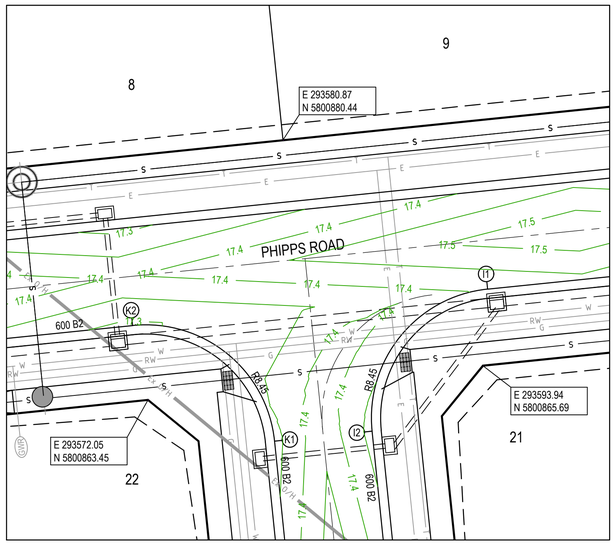
DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-04.dwg PRINTED BY: NG12326 on 26/03/2019 at 01:41:07 PM

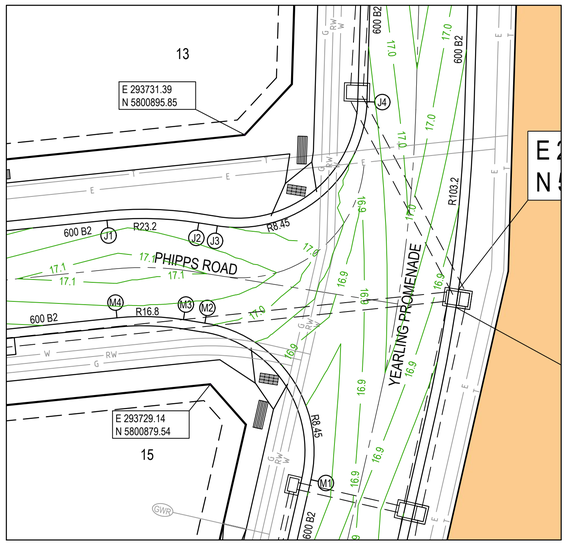




DESIGN LEVEL	17.93	17.90		17.86	17.86	17.87	17.87	17.92	17.95	17.99	18.01	18.02	18.05	18.05
EXISTING SURFACE	17.93	17.91		17.90	17.90	17.91	17.91	17.93	17.93	17.94	17.94	17.93	17.95	17.95
NORTHING	5800883.77	5800884.18		5800888.10	5800890.15	5800891.25	5800891.65	5800894.02	5800894.50	5800894.77	5800894.62		5800894.29	5800894.27
EASTING	293476.49	293480.47		293485.15	293485.33	293485.22	293485.18	293483.89	293483.10	293481.34	293479.87		293476.61	293476.42
CHAINAGE	0.00	4.00		10.00	10.49	12.96	13.66	14.06	16.84	17.76	19.56	20.00	21.04	24.32	24.51

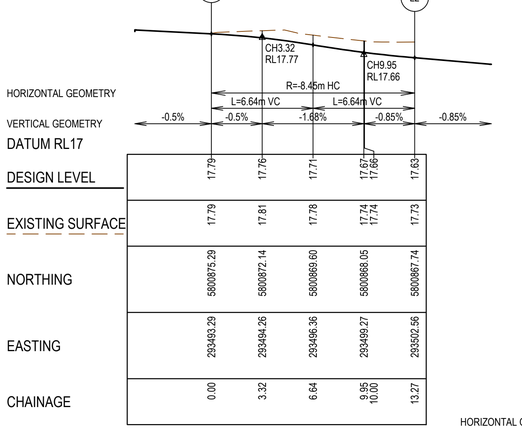
LIP LINE G





DESIGN LEVEL	17.63	17.66	17.68	17.71	17.75 17.76	17.78	17.83	17.85	17.93
EXISTING SURFACE	17.71	17.74	17.76	17.80	17.82 17.83	17.82	17.85	17.85	17.87
NORTHING	5800861.38	5800860.72		5800864.01	5800868.27	5800870.76	5800875.83		5800879.19
EASTING	293503.21	293496.84		293489.26	293487.57	293487.32	293485.19		293476.96
CHAINAGE	0.00	6.40	10.00	15.04	19.67 20.00	22.17	27.76	30.00	37.02

LIP LINE H



DESIGN LEVEL	17.79	17.76	17.71	17.67 17.66	17.63
EXISTING SURFACE	17.79	17.81	17.78	17.74 17.74	17.73
NORTHING	5800875.29	5800872.14	5800869.60	5800868.05	5800867.74
EASTING	293493.29	293494.26	293496.36	293499.27	293502.96
CHAINAGE	0.00	3.32	6.64	9.95 10.00	13.27

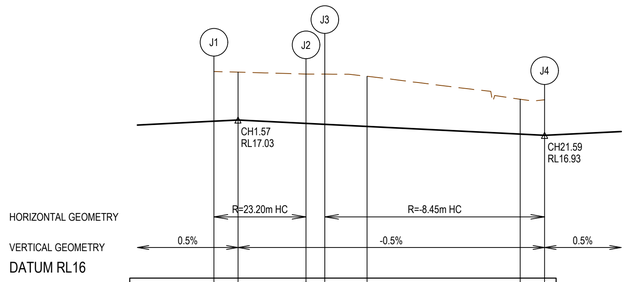
LIP LINE L

DESIGN LEVEL	17.33	17.34	17.33	17.31 17.31	17.29	
EXISTING SURFACE	17.50	17.53	17.46	17.55 17.55	17.47	
NORTHING	5800860.78	5800863.93	5800866.47	5800868.01	5800868.32	
EASTING	293560.32	293579.35	293577.25	293574.34	293571.05	
CHAINAGE	0.00	3.32	6.64	9.95 10.00	13.27	

LIP LINE K

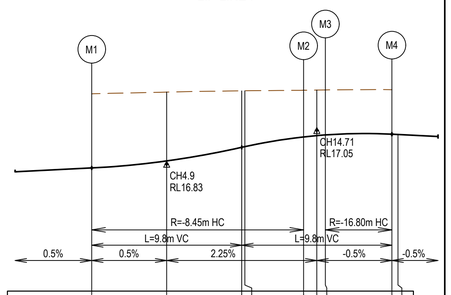
DESIGN LEVEL	17.41	17.35	17.33
EXISTING SURFACE	17.55	17.52	17.50
NORTHING	5800870.70		5800861.43
EASTING	293594.23		293586.69
CHAINAGE	0.00	10.00	13.27

LIP LINE I



DESIGN LEVEL	17.02	17.03	17.01	17.00	16.99	16.94	16.93
EXISTING SURFACE	17.35	17.34	17.33	17.33	17.32	17.17	17.16
NORTHING	5800890.26	5800890.36	5800890.09	5800889.90		5800898.00	
EASTING	293722.41	293723.98	293728.40	293729.62		293739.38	
CHAINAGE	0.00	1.57	6.01	7.24	10.00	20.00	21.59

LIP LINE J



DESIGN LEVEL	16.80	16.85	16.94 16.94	17.01 17.02	17.02 17.02		
EXISTING SURFACE	17.29	17.30	17.31 17.31	17.31 17.31	17.32		
NORTHING	5800873.33	5800878.15	5800882.01	5800883.55 5800883.69	5800883.77	5800883.89	
EASTING	293735.72	293735.40	293732.49	293728.80 293727.94	293727.40	293723.06	
CHAINAGE	0.00	4.90	9.80 10.00	13.84 14.71	15.26	19.61 20.00	

LIP LINE M

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
SWR	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
SWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN

	FUTURE MAIN DRAIN
Fut S	FUTURE SEWER & MAINTENANCE STRUCTURES
H	FUTURE HOUSE DRAIN
SWR	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.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

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Quality Management - ISO 9001 Global-Mark.com.au® OHS Management - AS/NZS 4801 Global-Mark.com.au® Environmental Management - ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

N

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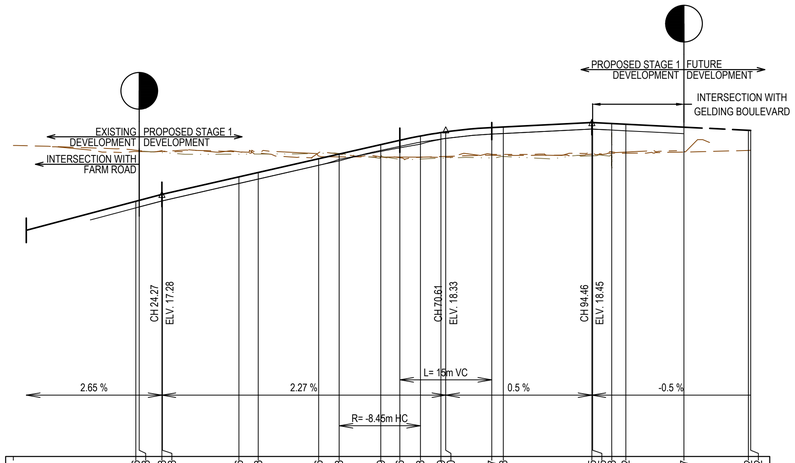
Melbourne, VIC 3004
Ph 03 9514 1500

YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Intersection Detail Plan & Lip Profiles - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-05	05 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-05.dwg PRINTED BY: NG12326 on 18/02/2019 at 12:06:29 PM



DATUM RL13

CHAINAGE	DESIGN CENTRELINE	RIGHT LIP OF KERB	EXISTING SURFACE AT RIGHT BOUNDARY	LEFT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE	
0.00						18.08	
20.00	17.16			17.057	17.977	18.00	
20.56	17.18			17.072	17.976	17.99	TPCH
24.27	17.28	17.170	17.960	17.170	17.988	17.98	
24.35	17.28	17.172	17.959	17.172	17.985	17.98	
36.85	17.56	17.456	17.934	17.456	17.972	17.97	
40.00	17.63	17.528	17.936	17.528	17.978	17.95	
49.84	17.86	17.752	17.947	17.752	17.904	17.96	
53.20	17.93	17.824	17.949	17.848		17.94	
60.00	18.09	17.995	17.902	17.979	17.890	17.89	
63.11	18.16	18.062	17.848	18.038	17.903	17.88	
66.47	18.23	18.131	17.857	18.097		17.88	
69.82	18.29	18.179	17.869	18.179	17.885	17.89	
70.61	18.30	18.190	17.871	18.190	17.883	17.90	
78.11	18.37	18.262	17.872	18.262	17.932	17.92	
80.00	18.38	18.271	17.895	18.271	17.929	17.91	
94.46	18.45	18.343	17.908	18.343	17.957	17.93	
94.58	18.45	18.343	17.908	18.343	17.957	17.93	RTP
97.68	18.43		17.908	18.327	17.971	17.95	
100.00	18.42			18.316	17.969	17.95	
109.48	18.37			18.268	17.984	17.97	RTP
120.00	18.32					17.99	
120.38	18.32					18.00	

FILLY STREET LONGITUDINAL SECTION

DATUM RL13

CHAINAGE	DESIGN CENTRELINE	RIGHT LIP OF KERB	EXISTING SURFACE AT RIGHT BOUNDARY	LEFT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE	
0.00	18.21				17.977	17.96	
11.80	18.16	18.079	17.915	18.079	17.934	17.90	TP
20.00	18.11	18.038	17.909	18.038	17.868	17.86	
40.00	18.01	17.938	17.845	17.938	17.884	17.89	
44.64	17.99	17.915	17.886	17.915	17.865	17.87	
60.00	18.07	17.991	17.810	17.991	17.841	17.73	
74.64	18.14	18.065	17.720	18.065	17.894	17.85	
80.00	18.11	18.038	17.702	18.038	17.883	17.77	
100.00	18.01	17.938	17.753	17.938	17.923	17.83	
120.00	17.91	17.838	17.848	17.838	17.931	17.92	
129.54	17.87	17.790	17.845	17.790	17.940	17.89	
135.08	17.89	17.818	17.838	17.818	17.920	17.86	
140.00	17.92	17.843	17.877	17.843	17.907	17.92	
159.54	18.02	17.940	17.812	17.940	17.940	17.91	
160.00	18.01	17.938	17.816	17.938	17.945	17.90	
162.58	18.00	17.925	17.864	17.925	17.944	17.92	TP
175.23					17.911	17.90	

GELDING BOULEVARD LONGITUDINAL SECTION

DATUM RL13

CHAINAGE	DESIGN CENTRELINE	RIGHT LIP OF KERB	EXISTING SURFACE AT RIGHT BOUNDARY	LEFT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE
0.00	17.38					17.57
3.20	17.40					17.56
11.65	17.44	17.332	17.511	17.332	17.501	17.50
20.00	17.48	17.374	17.418	17.374	17.443	17.42
34.52	17.55		17.364		17.374	17.38

HORSEMAN STREET LONGITUDINAL SECTION

DATUM RL13

CHAINAGE	DESIGN CENTRELINE	RIGHT LIP OF KERB	EXISTING SURFACE AT RIGHT BOUNDARY	LEFT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE
0.00			17.851			17.76
11.05	17.82	17.882	17.828	17.882	17.737	17.74
13.89	17.84	17.896	17.777	17.896	17.735	17.74
20.00	17.87	17.927	17.747	17.927	17.950	17.73
20.82	17.87	17.931	17.743	17.931	17.957	17.74
23.58	18.01		17.749		17.980	17.76

LANEWAY LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

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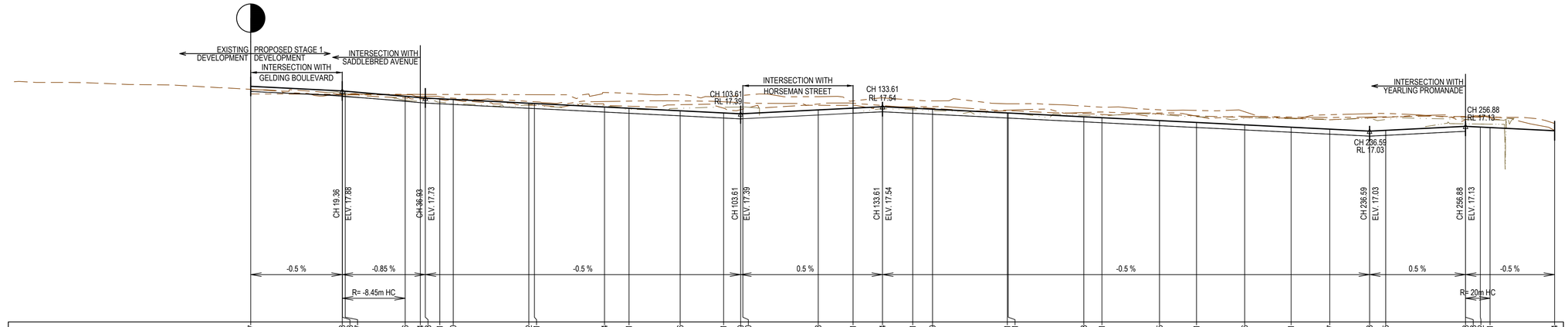
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-06	06 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-06.dwg PRINTED BY: SS20207 on 11/01/2019 at 02:14:37 PM



DESIGN CENTRELINE	17.97	17.88	17.88	17.87	17.76	17.74	17.73	17.71	17.70	17.62
RIGHT LIP OF KERB	17.864	17.784	17.770	17.765	17.657	17.630	17.621	17.606	17.592	17.512
EXISTING SURFACE AT RIGHT BOUNDARY		17.813	17.811	17.809	17.681	17.660	17.654	17.638	17.614	17.588
LEFT LIP OF KERB	17.867	17.761	17.760	17.756	17.665	17.630	17.621	17.606	17.592	17.512
EXISTING SURFACE AT LEFT BOUNDARY	17.902	17.783	17.781	17.785	17.794	17.763	17.763	17.753	17.725	17.655
EXISTING SURFACE	17.91	17.81	17.81	17.81	17.73	17.71	17.71	17.70	17.69	17.58
CHAINAGE	0.00	19.36	19.40	20.00	32.67	35.87	36.93	40.00	42.82	58.82
	TP					LTP				

DESIGN CENTRELINE	17.61	17.54	17.51	17.46	17.41	17.39	17.40	17.48	17.51	17.54
RIGHT LIP OF KERB	17.506	17.432	17.406	17.352	17.306	17.288	17.290			17.438
EXISTING SURFACE AT RIGHT BOUNDARY	17.599	17.564	17.489	17.511	17.535	17.538	17.539		17.519	17.502
LEFT LIP OF KERB	17.506	17.432	17.406	17.352	17.306	17.288	17.290	17.370	17.407	17.438
EXISTING SURFACE AT LEFT BOUNDARY	17.648	17.654	17.663	17.667	17.649	17.630	17.628	17.601	17.617	17.570
EXISTING SURFACE	17.58	17.57	17.56	17.59	17.51	17.48	17.49	17.57	17.57	17.54
CHAINAGE	60.00	74.82	80.00	90.82	100.00	103.61	104.07	120.00	127.37	133.61
							RTP		RTP	

DESIGN CENTRELINE	17.51	17.49	17.41	17.41	17.33	17.31	17.25	17.21	17.16	17.11
RIGHT LIP OF KERB	17.406	17.385	17.306	17.305	17.225	17.206	17.145	17.106	17.055	17.006
EXISTING SURFACE AT RIGHT BOUNDARY	17.483	17.459	17.405	17.404	17.365	17.357	17.379	17.331	17.298	17.292
LEFT LIP OF KERB	17.406	17.385	17.306	17.305	17.225	17.206	17.145	17.106	17.055	17.006
EXISTING SURFACE AT LEFT BOUNDARY	17.543	17.546	17.472	17.472	17.421	17.433	17.412	17.346	17.342	17.327
EXISTING SURFACE	17.52	17.51	17.46	17.46	17.40	17.38	17.39	17.35	17.32	17.30
CHAINAGE	140.00	144.17	160.00	160.17	176.17	180.00	192.17	200.00	210.17	220.00

DESIGN CENTRELINE	17.07	17.03	17.05	17.13	17.13	17.12	17.11	17.04
RIGHT LIP OF KERB	16.965	16.923	16.940	17.024				
EXISTING SURFACE AT RIGHT BOUNDARY	17.270	17.300	17.275	17.271	17.271	17.268	17.267	
LEFT LIP OF KERB	16.965	16.923	16.940	17.024				
EXISTING SURFACE AT LEFT BOUNDARY	17.315	17.327	17.331	17.262	17.262	17.349	17.304	
EXISTING SURFACE	17.27	17.31	17.32	17.34	17.34	17.33	17.32	17.19
CHAINAGE	228.17	236.59	240.00	256.88	256.88	260.00	262.06	275.71
				TP				

PHIPPS ROAD LONGITUDINAL SECTION

DESIGN CENTRELINE	17.14	17.04	17.04	17.04	16.94	16.94	16.91
RIGHT LIP OF KERB	17.028	16.932	16.930	16.928	16.833	16.828	16.804
EXISTING SURFACE AT RIGHT BOUNDARY							17.268
LEFT LIP OF KERB	17.028	16.932	16.930	16.928	16.833	16.828	16.804
EXISTING SURFACE AT LEFT BOUNDARY	16.969	17.039	17.039	17.038	16.983	16.984	16.885
EXISTING SURFACE	16.97	17.18	17.18	17.18	17.18	17.17	17.20
CHAINAGE	0.00	19.26	19.68	20.00	39.11	40.00	44.88
		RTP					RTP

DESIGN CENTRELINE	16.91	16.95	16.98	17.00	17.02	17.08	17.10
RIGHT LIP OF KERB	16.799	16.840	16.870	16.892	16.917	16.970	16.991
EXISTING SURFACE AT RIGHT BOUNDARY	17.256	17.180	17.230	17.103			
LEFT LIP OF KERB	16.799	16.840	16.870	16.892	16.917	16.970	16.991
EXISTING SURFACE AT LEFT BOUNDARY	16.862	16.646	16.332	16.592	16.522		
EXISTING SURFACE	17.20	17.20	17.03	17.17	16.56	16.98	17.00
CHAINAGE	45.82	53.96	60.00	64.40	69.32	80.00	84.12

YEARLING PROMENADE LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

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Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

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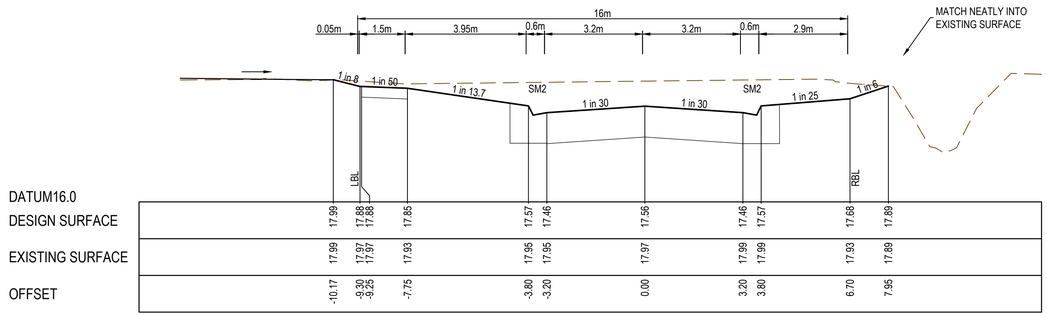
Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-07	07 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-07.dwg PRINTED BY: SS20207 on 11/01/2019 at 02:14:49 PM



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

DATUM16.0

DESIGN SURFACE	17.99	17.88	17.88	17.85	17.57	17.46	17.56	17.46	17.57	17.68	17.89
EXISTING SURFACE	17.99	17.97	17.97	17.93	17.95	17.95	17.97	17.99	17.99	17.93	17.89
OFFSET	-10.17	-9.30	-9.25	-7.75	-3.80	-3.20	0.00	3.20	3.80	6.70	7.95

CH 36.85

DATUM16.0

DESIGN SURFACE	17.79	17.57	17.57	17.54	17.28	17.17	17.28	17.17	17.28	17.40	17.70
EXISTING SURFACE	17.98	17.99	17.99	17.97	17.98	17.97	17.98	18.02	18.03	17.96	17.70
OFFSET	-11.01	-9.30	-9.25	-7.75	-3.80	-3.20	0.00	3.20	3.80	6.70	8.50

CH 24.35

DATUM16.0

DESIGN SURFACE	17.71	17.47	17.47	17.44	17.18	17.07	17.18	17.07	17.18	17.30	17.61
EXISTING SURFACE	17.98	17.98	17.98	17.95	17.97	17.98	17.99	18.00	18.00	17.99	17.61
OFFSET	-11.27	-9.30	-9.25	-7.75	-3.80	-3.20	0.00	3.20	3.80	6.70	8.60

RTPCH 20.56

DATUM17.0

DESIGN SURFACE	18.39	18.61	18.61	18.58	18.45	18.34	18.45	18.34	18.45	18.57
EXISTING SURFACE	17.96	17.96	17.96	17.93	17.93	17.94	17.93	17.90	17.89	17.91
OFFSET	-11.30	-9.30	-9.25	-7.75	-3.80	-3.20	0.00	3.20	3.80	6.70

RTPCH 94.58

DATUM16.0

DESIGN SURFACE	18.23	18.23	18.18	17.86	17.75	17.86	17.75	17.86	17.98	17.94
EXISTING SURFACE	17.90	17.91	17.94	17.94	17.95	17.96	17.87	17.87	17.95	17.94
OFFSET	-9.78	-9.73	-7.75	-3.80	-3.20	0.00	3.20	3.80	6.70	6.95

LTPCH 49.84

FILLY STREET CROSS SECTIONS

DATUM16.0

DESIGN SURFACE		17.105	17.105	17.065	16.620	16.510	16.640	16.510	16.620	17.065	17.105	17.105	17.946	17.967
EXISTING SURFACE		17.472	17.498	18.025	18.086	18.078	18.025	17.972	17.963	17.964	17.969	17.969	17.968	17.967
OFFSET	-14.000	-11.000	-10.950	-8.950	-4.500	-3.900	0.000	3.900	4.500	8.950	10.950	11.000	11.300	11.386

CH 66.543

DATUM16.0

DESIGN SURFACE		17.264	17.264	17.224	16.789	16.679	16.809	16.679	16.789	16.809	18.010
EXISTING SURFACE		18.062	18.062	18.066	18.074	18.075	18.067	18.069	18.070	18.089	17.969
OFFSET	-14.000	-11.000	-10.950	-8.950	-4.500	-3.900	0.000	3.900	4.500	5.500	12.300

TPCH 32.654

GRAVID STREET CROSS SECTIONS

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

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OHS Management · AS/NZS 4801 Global-Mark.com.au®
Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

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ABN 47 065 475 149
Level 10, 71 Queens Road
Melbourne, VIC 3004
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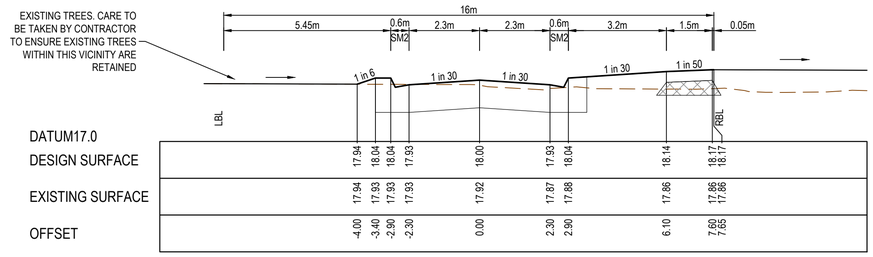
YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Filly Street

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-08	08 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-08.dwg PRINTED BY: SS20207 on 11/01/2019 at 02:15:01 PM



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

EXISTING TREES. CARE TO BE TAKEN BY CONTRACTOR TO ENSURE EXISTING TREES WITHIN THIS VICINITY ARE RETAINED

DATUM17.0										
DESIGN SURFACE	17.94	18.04	18.04	17.93	18.00	17.93	18.04	18.14	18.17	18.17
EXISTING SURFACE	17.94	17.93	17.93	17.93	17.92	17.87	17.88	17.86	17.86	17.86
OFFSET	-4.00	-3.40	-2.90	-2.30	0.00	2.30	2.90	6.10	7.60	7.65

TPCH 162.58

DATUM17.0											
DESIGN SURFACE	17.88	17.93	17.93	17.82	17.89	17.82	17.93	18.18	18.21	18.21	18.21
EXISTING SURFACE	17.88	17.88	17.88	17.87	17.86	17.85	17.85	17.84	17.84	17.84	17.84
OFFSET	-3.66	-3.40	-2.90	-2.30	0.00	2.30	2.90	6.10	7.60	7.65	7.95

CH 135.08

DATUM17.0												
DESIGN SURFACE	17.92	17.90	17.90	17.79	17.87	17.79	17.90	18.19	18.22	18.22	18.22	17.84
EXISTING SURFACE	17.92	17.92	17.91	17.91	17.89	17.87	17.86	17.85	17.85	17.85	17.84	17.84
OFFSET	-3.50	-3.40	-2.90	-2.30	0.00	2.30	2.90	6.10	7.60	7.65	7.95	10.25

CH 129.54

DATUM17.0												
DESIGN SURFACE	17.88	18.17	18.17	18.06	18.14	18.06	18.17	18.27	18.30	18.30	18.30	17.70
EXISTING SURFACE	17.88	17.87	17.86	17.86	17.85	17.83	17.83	17.77	17.72	17.72	17.72	17.70
OFFSET	-5.19	-3.40	-2.90	-2.30	0.00	2.30	2.90	6.10	7.60	7.65	7.95	11.54

CH 74.64

DATUM17.0												
DESIGN SURFACE	17.87	18.02	18.02	17.91	17.99	17.91	18.02	18.31	18.34	18.34	18.34	17.88
EXISTING SURFACE	17.87	17.88	17.89	17.87	17.87	17.86	17.85	17.90	17.88	17.89	17.89	17.88
OFFSET	-4.33	-3.40	-2.90	-2.30	0.00	2.30	2.90	6.10	7.60	7.65	7.95	10.73

CH 44.64

DATUM17.0												
DESIGN SURFACE	17.89	18.19	18.19	18.08	18.16	18.08	18.19	18.36	18.39	18.39	18.39	17.90
EXISTING SURFACE	17.89	17.88	17.88	17.89	17.90	17.90	17.90	17.90	17.92	17.91	17.89	17.90
OFFSET	-5.16	-3.40	-2.90	-2.30	0.00	2.30	2.90	6.10	7.60	7.65	7.95	10.90

TPCH 11.80

GELDING BOULEVARD

DATUM16.0											
DESIGN SURFACE	17.52	17.52	17.49	17.33	17.22	17.32	17.22	17.33	17.46	17.49	17.49
EXISTING SURFACE	17.37	17.37	17.37	17.38	17.38	17.38	17.38	17.37	17.37	17.36	17.36
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

CH 34.52

DATUM16.0												
DESIGN SURFACE	17.63	17.53	17.53	17.50	17.35	17.24	17.35	17.24	17.35	17.47	17.50	17.50
EXISTING SURFACE	17.42	17.42	17.42	17.41	17.36	17.34	17.37	17.40	17.41	17.43	17.44	17.44
OFFSET	-8.85	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

CH 30.00

DATUM16.0												
DESIGN SURFACE	17.64	17.54	17.54	17.51	17.40	17.29	17.40	17.29	17.40	17.49	17.52	17.52
EXISTING SURFACE	17.45	17.44	17.44	17.44	17.43	17.43	17.42	17.42	17.41	17.41	17.42	17.42
OFFSET	-8.85	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

CH 20.00

DATUM16.0												
DESIGN SURFACE	17.66	17.56	17.56	17.53	17.44	17.33	17.44	17.33	17.44	17.51	17.54	17.54
EXISTING SURFACE	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.51	17.51	17.51
OFFSET	-8.85	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

TPCH 11.65

HORSEMAN STREET

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

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OHS Management AS/NZS 4801 Global-Mark.com.au®
Environmental Management ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

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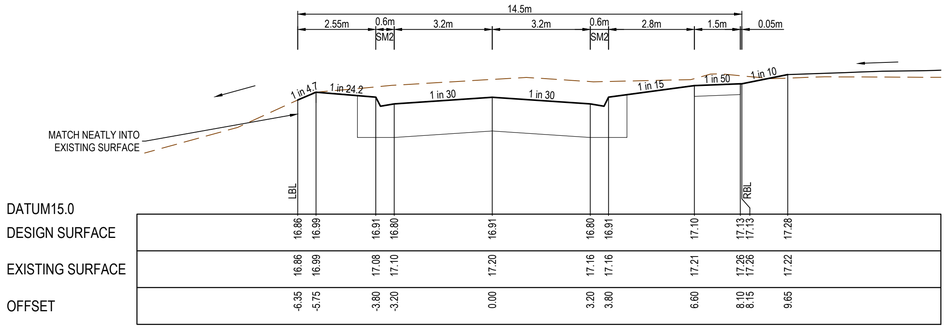
YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Gelding Boulevatrd
& Horseman Street

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-09	09 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-09.dwg PRINTED BY: SS20207 on 11/01/2019 at 02:15:12 PM



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

DATUM15.0

DESIGN SURFACE	16.86	16.99	16.91	16.80	16.91	16.80	16.91	17.10	17.13	17.13	17.28
EXISTING SURFACE	16.86	16.99	17.08	17.10	17.20	17.16	17.16	17.21	17.26	17.26	17.22
OFFSET	-6.35	-5.75	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15	9.65

CH 45.83

DATUM15.0

DESIGN SURFACE	16.89	16.99	16.91	16.80	16.91	16.80	16.91	17.10	17.13	17.13	17.28
EXISTING SURFACE	16.89	16.99	17.08	17.11	17.20	17.26	17.24	17.19	17.27	17.27	17.22
OFFSET	-6.35	-5.83	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15	9.65

RTPCHCH 44.88

DATUM16.0

DESIGN SURFACE	17.04	17.04	16.93	17.04	16.93
EXISTING SURFACE	17.04	17.11	17.12	17.18	17.20
OFFSET	-6.35	-3.80	-3.20	0.00	3.20

RTPCHCH 19.26

DATUM16.0

DESIGN SURFACE	16.63	17.14	17.03	17.14	17.03	17.14	17.28	17.31	17.31	17.41
EXISTING SURFACE	16.63	16.71	16.73	16.97	17.21	17.21	17.25	17.26	17.26	17.28
OFFSET	-6.35	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15	9.15

CH 0.00

DATUM15.0

DESIGN SURFACE	16.52	17.03	16.92	17.02	16.92	17.03	17.21	17.24	17.24	17.39
EXISTING SURFACE	16.52	16.54	16.56	16.56	16.41	16.33	16.57	16.93	16.94	17.12
OFFSET	-6.35	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15	9.65

CH 69.32

DATUM15.0

DESIGN SURFACE	16.65	16.99	16.95	16.84	16.95	16.84	16.95	17.14	17.17	17.17	17.32
EXISTING SURFACE	16.65	16.83	16.95	17.06	17.20	17.19	17.20	17.20	17.18	17.18	17.21
OFFSET	-6.35	-4.80	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15	9.65

CH 53.96

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

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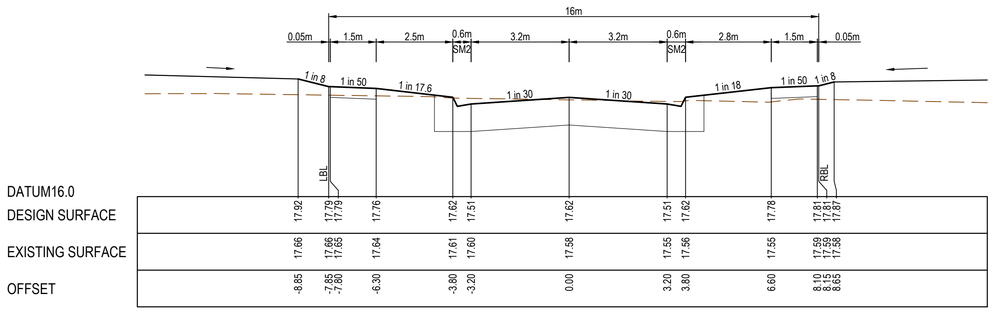
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Yearling Promenade

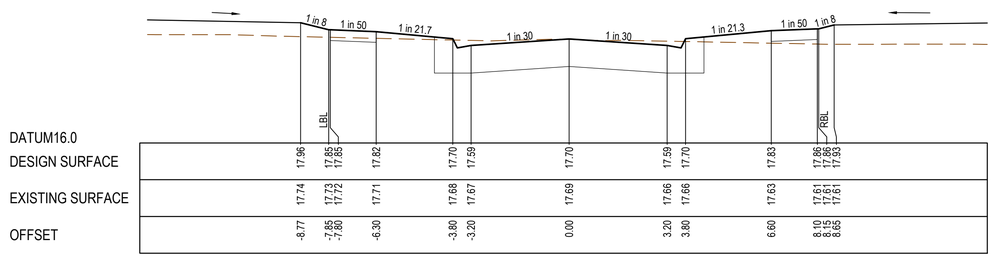
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-10	10 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-10.dwg PRINTED BY: SS20207 on 11/01/2019 at 02:15:24 PM

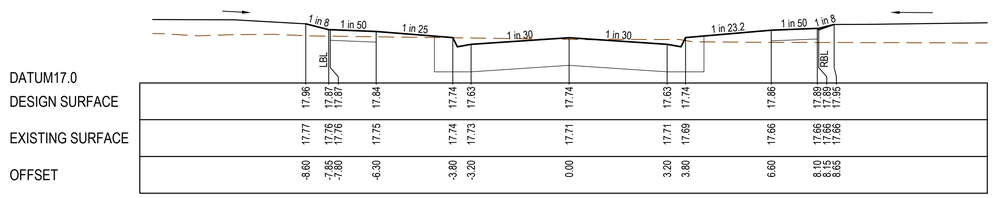
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



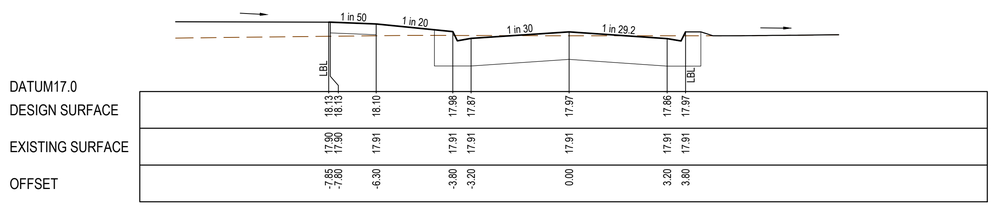
CH 58.82



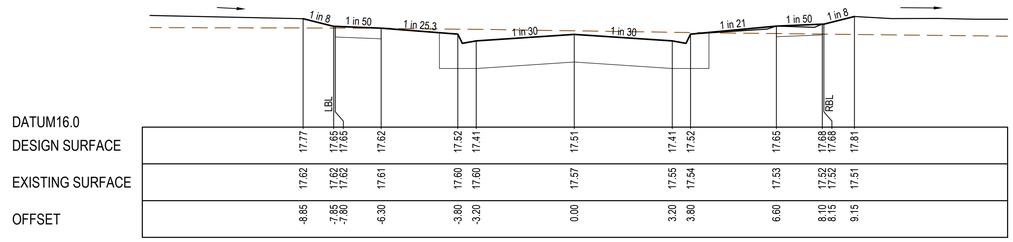
CH 42.82



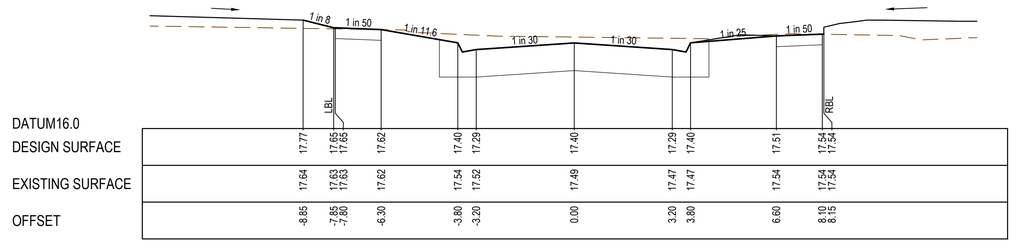
LTPCH 35.87



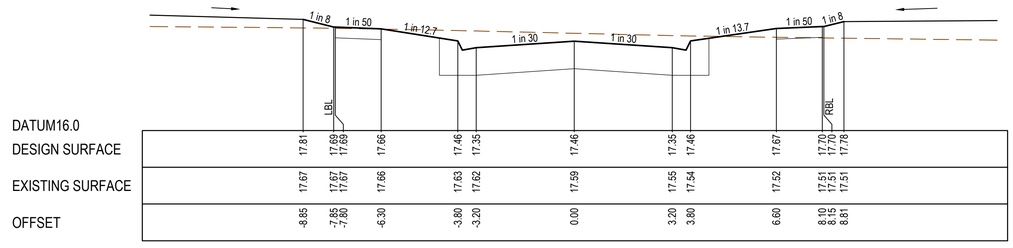
TPCH 0.00



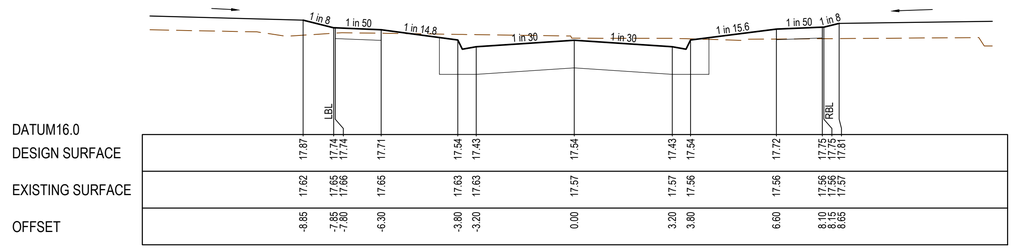
RTPCH 127.37



RTPCH 104.07



CH 90.82



CH 74.82

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

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Member of the Surbana Jurong Group
© ABN 47 065 475 149
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

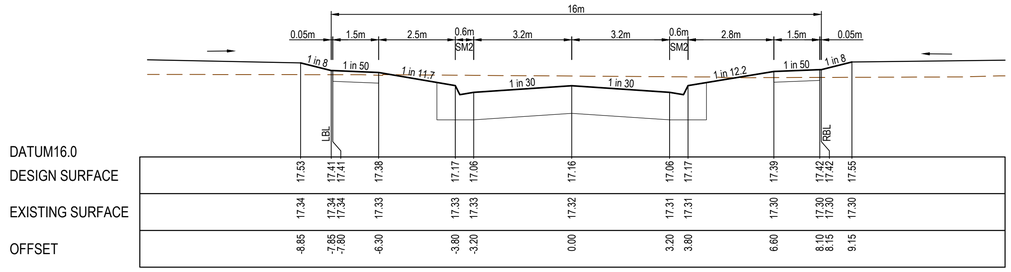
YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Phipps Road
Ch0.00 to Ch127.37

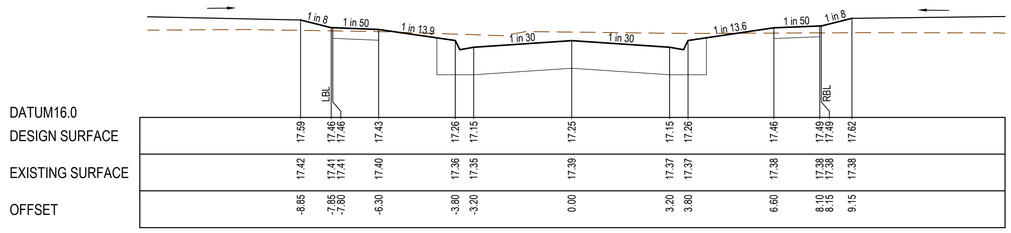
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-11	11 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-11.dwg PRINTED BY: SS20207 on 11/01/2019 at 02:15:38 PM

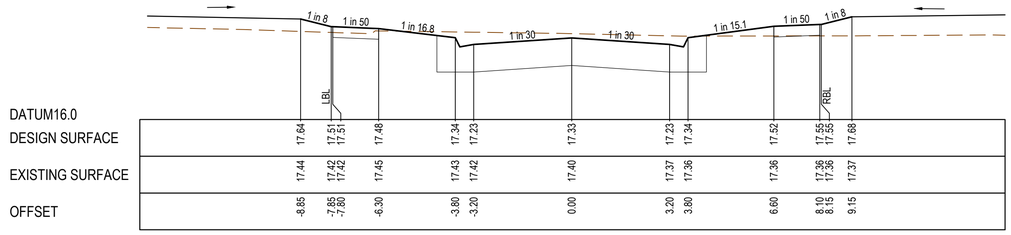
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



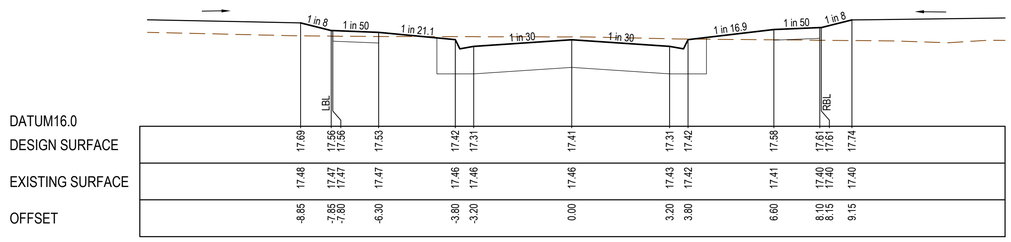
CH 210.17



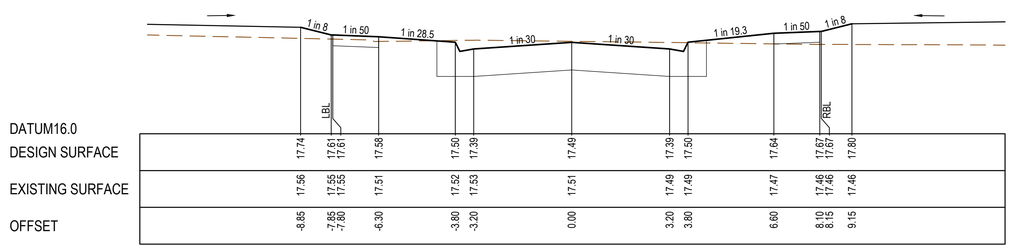
CH 192.17



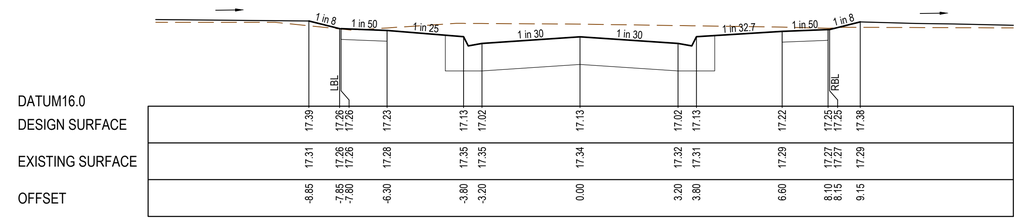
CH 176.17



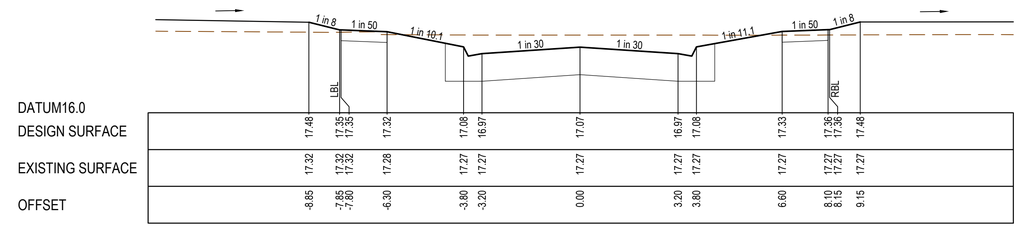
CH 160.17



CH 144.17



CH 256.88



CH 228.17

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

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Member of the Surbana Jurong Group

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Ph 03 9514 1500

YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Phipps Road
Ch144.17 to Ch256.88

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-12	12 of 25	0

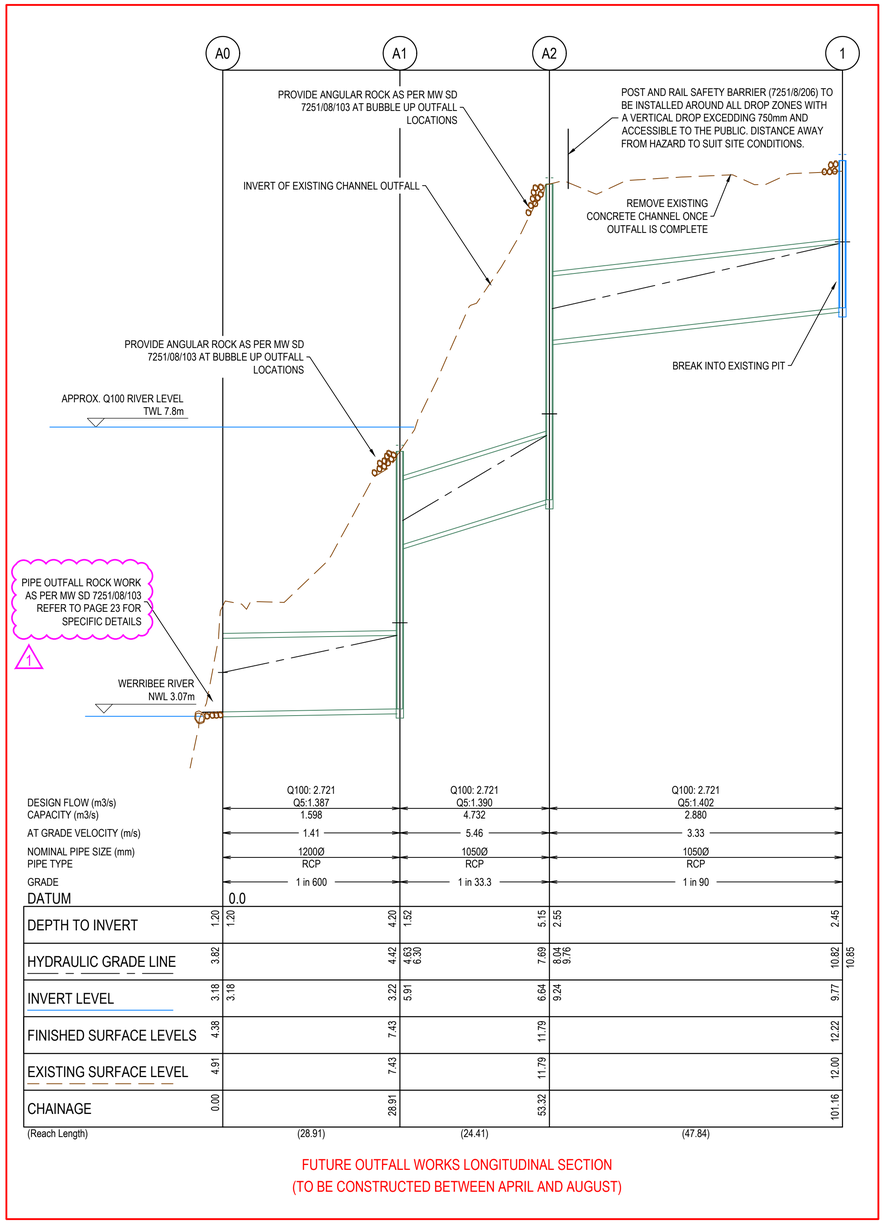
DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-12.dwg PRINTED BY: SS20207 on 11/01/2019 at 02:15:51 PM

NOTE

ALL DRAINAGE PIPES UP TO AND INCLUDING 750mm DIAMETER ARE CLASS 2 RCP PIPES RUBBER RING JOINTED UNLESS SPECIFIED OTHERWISE. ALL OTHER LARGER PIPES TO BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS UNLESS SPECIFIED OTHERWISE.

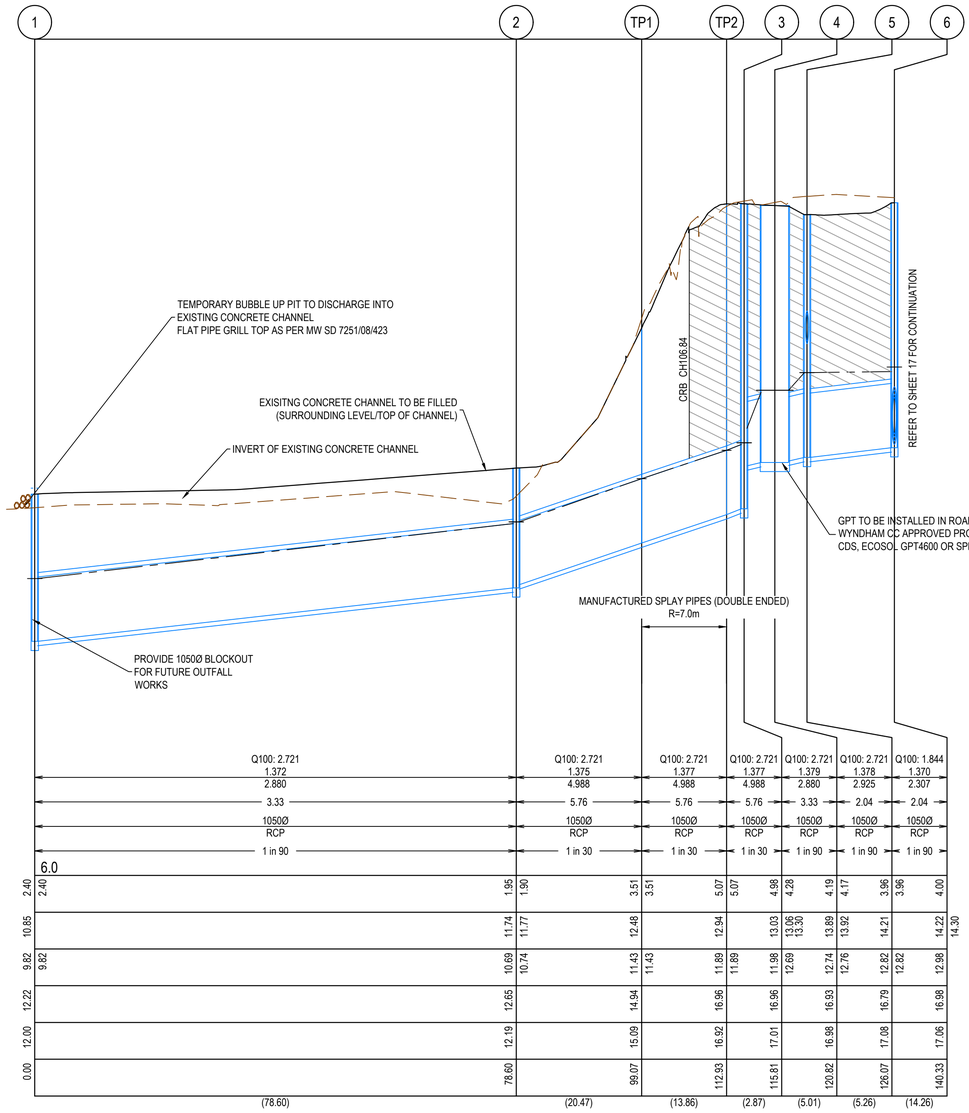
CRUSHED ROCK BACKFILL

CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



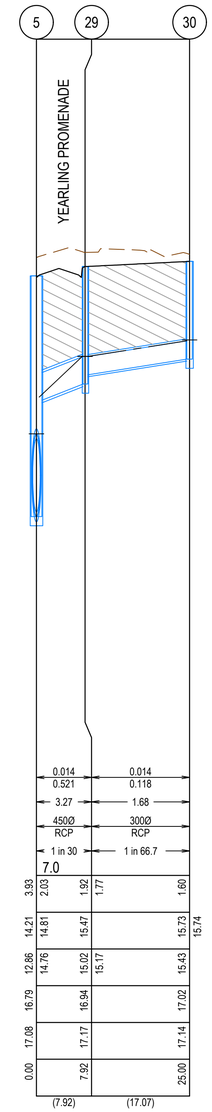
DESIGN FLOW (m3/s)		Q100: 2.721 Q5:1.387	Q100: 2.721 Q5:1.390	Q100: 2.721 Q5:1.402
CAPACITY (m3/s)		1.598	4.732	2.880
AT GRADE VELOCITY (m/s)		1.41	5.46	3.33
NOMINAL PIPE SIZE (mm)		1200Ø	1050Ø	1050Ø
PIPE TYPE		RCP	RCP	RCP
GRADE		1 in 600	1 in 33.3	1 in 90
DATUM		0.0		
DEPTH TO INVERT	1.20	1.20 4.20	1.52 5.15	2.55 2.45
HYDRAULIC GRADE LINE	3.82	4.42	4.63 7.69 6.90	8.04 10.82 9.76 10.85
INVERT LEVEL	3.18	3.18 3.22	5.91 6.64	9.24 9.77
FINISHED SURFACE LEVELS	4.38	7.43	11.79	12.22
EXISTING SURFACE LEVEL	4.91	7.43	11.79	12.00
CHAINAGE	0.00	28.91	53.32	101.16
(Reach Length)		(28.91)	(24.41)	(47.84)

FUTURE OUTFALL WORKS LONGITUDINAL SECTION
(TO BE CONSTRUCTED BETWEEN APRIL AND AUGUST)



DESIGN FLOW (m3/s)		Q100: 2.721 1.372	Q100: 2.721 1.375	Q100: 2.721 1.377	Q100: 2.721 1.377	Q100: 2.721 1.379	Q100: 2.721 1.378	Q100: 1.844 1.370	
CAPACITY (m3/s)		2.880	4.988	4.988	4.988	2.880	2.925	2.307	
AT GRADE VELOCITY (m/s)		3.33	5.76	5.76	5.76	3.33	2.04	2.04	
NOMINAL PIPE SIZE (mm)		1050Ø	1050Ø	1050Ø	1050Ø	1050Ø	1050Ø	1050Ø	
PIPE TYPE		RCP	RCP	RCP	RCP	RCP	RCP	RCP	
GRADE		1 in 90	1 in 30	1 in 30	1 in 30	1 in 90	1 in 90	1 in 90	
DATUM		6.0							
DEPTH TO INVERT	2.40	2.40 1.95	1.90 3.51	3.51 5.07	5.07 4.98	4.28 4.19	4.17 3.96	3.96 4.00	
HYDRAULIC GRADE LINE	10.85	11.74	11.77 12.48	12.94	13.03	13.96 13.30	13.89 13.92	14.21	14.22 14.30
INVERT LEVEL	9.82	9.82 10.69	10.74 11.43	11.43 11.89	11.89 11.98	12.69 12.74	12.76 12.82	12.82 12.98	
FINISHED SURFACE LEVELS	12.22	12.65	14.94	16.96	16.96	16.93	16.79	16.98	
EXISTING SURFACE LEVEL	12.00	12.19	15.09	16.92	17.01	16.98	17.08	17.06	
CHAINAGE	0.00	78.60	99.07	112.93	115.81	120.82	126.07	140.33	
(Reach Length)		(78.60)	(20.47)	(13.86)	(2.87)	(5.01)	(5.26)	(14.26)	

STAGE 1 DRAINAGE WORKS WITH TEMPORARY OUTFALL LONGITUDINAL SECTION



DESIGN FLOW (m3/s)		0.014 0.521	0.014 0.118
CAPACITY (m3/s)			
AT GRADE VELOCITY (m/s)		3.27	1.68
NOMINAL PIPE SIZE (mm)		450Ø	300Ø
PIPE TYPE		RCP	RCP
GRADE		1 in 30	1 in 66.7
DATUM		7.0	
DEPTH TO INVERT	3.93	3.93 2.03	1.92 1.77 1.60
HYDRAULIC GRADE LINE	14.21	14.21 14.81	15.47 15.73 15.74
INVERT LEVEL	12.86	12.86 14.76	15.02 15.17 15.43
FINISHED SURFACE LEVELS	16.79	16.79 16.94	17.02
EXISTING SURFACE LEVEL	17.08	17.08 17.17	17.14
CHAINAGE	0.00	7.92	25.00
(Reach Length)		(7.92)	(17.07)

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV
1	22.01.19	ISSUED FOR CONSTRUCTION	NG/HE	LV

ISSUED FOR CONSTRUCTION

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

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© ABN 47 065 475 149
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

YourLand Developments

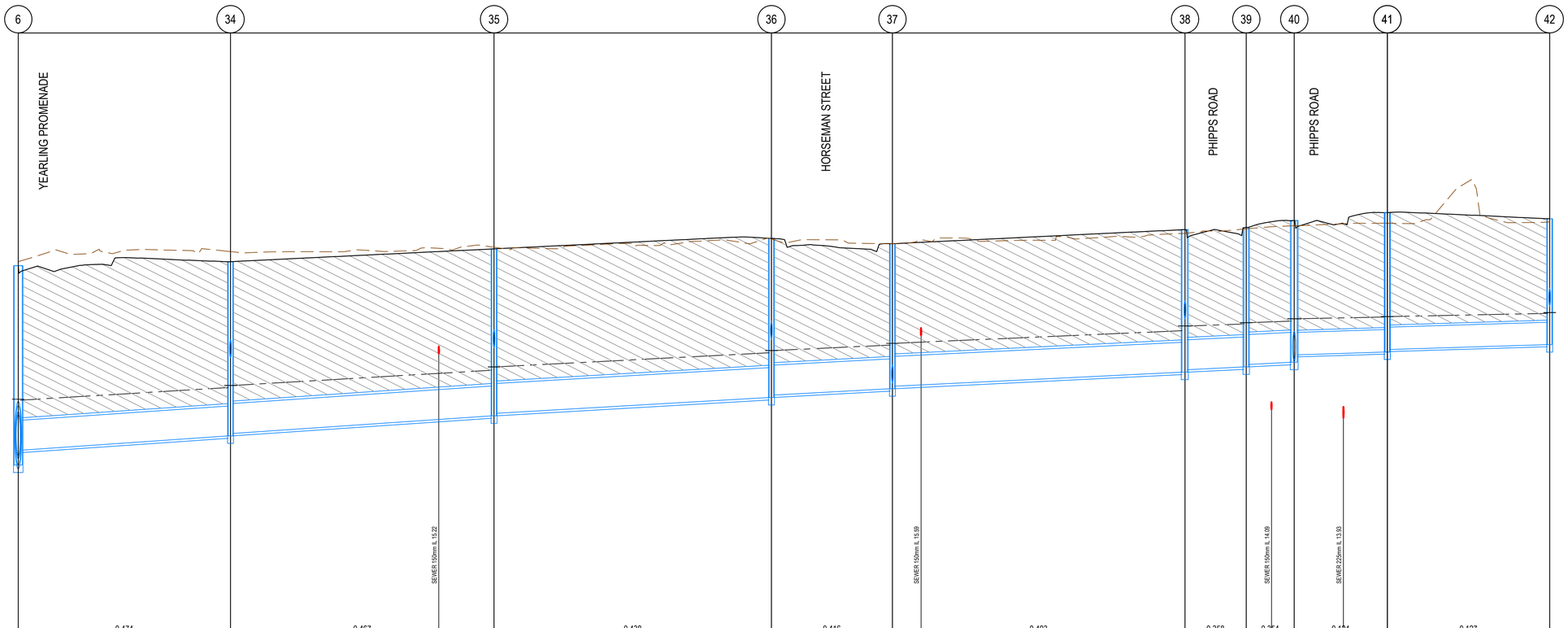
Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-13	13 of 25	1

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-13.dwg PRINTED BY: NG12326 on 22/02/2019 at 02:01:30 PM

NOTE
ALL DRAINAGE PIPES UP TO AND INCLUDING 750mm DIAMETER ARE CLASS 2 RCP PIPES RUBBER RING JOINTED UNLESS SPECIFIED OTHERWISE. ALL OTHER LARGER PIPES TO BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS UNLESS SPECIFIED OTHERWISE.

▨ CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	NOMINAL PIPE SIZE (mm)	PIPE TYPE	GRADE	(Reach Length)
0.474	0.502	1.77	600Ø	RCP	1 in 150	(42.63)
0.467	0.502	1.77	600Ø	RCP	1 in 150	(52.93)
0.438	0.464	1.64	600Ø	RCP	1 in 175	(55.70)
0.416	0.443	1.57	600Ø	RCP	1 in 192	(24.30)
0.403	0.426	1.51	600Ø	RCP	1 in 208	(58.75)
0.358	0.412	1.46	600Ø	RCP	1 in 222	(12.30)
0.354	0.412	1.46	600Ø	RCP	1 in 222	(9.64)
0.124	0.156	0.98	450Ø	RCP	1 in 333	(18.70)
0.127	0.156	0.98	450Ø	RCP	1 in 333	(32.60)

DATUM 8.0

CHAINAGE	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL
0.00	4.00 3.70	14.23 14.30 14.28	12.98 13.28	16.98	17.06
42.63	3.50 3.45	14.54 14.58	13.57 13.62	17.06	17.26
84.46			13.90		
95.56	3.35 3.30	14.88 14.95	13.97 14.02	17.32	17.35
151.26	3.19 3.14	15.23 15.28	14.34 14.39	17.53	17.52
175.56	2.91 2.86	15.39 15.42	14.51 14.56	17.42	17.42
181.31			14.59		
234.32	2.86 2.81	15.68 15.77	14.84 14.89	17.71	17.63
246.62	2.80 2.75	15.81 15.84	14.95 15.00	17.75	17.72
251.70			15.02		
256.26	2.85 2.70	15.87 15.92	15.04 15.19	17.89	17.78
266.15			15.22		
274.96	2.80 2.75	15.95 15.96	15.25 15.30	18.05	17.83
307.56	2.53 2.48	16.02 16.04	15.40 15.45	17.92	17.86

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

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Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-14	14 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-14.dwg PRINTED BY: NG12326 on 22/02/2019 at 02:01:39 PM

NOTE

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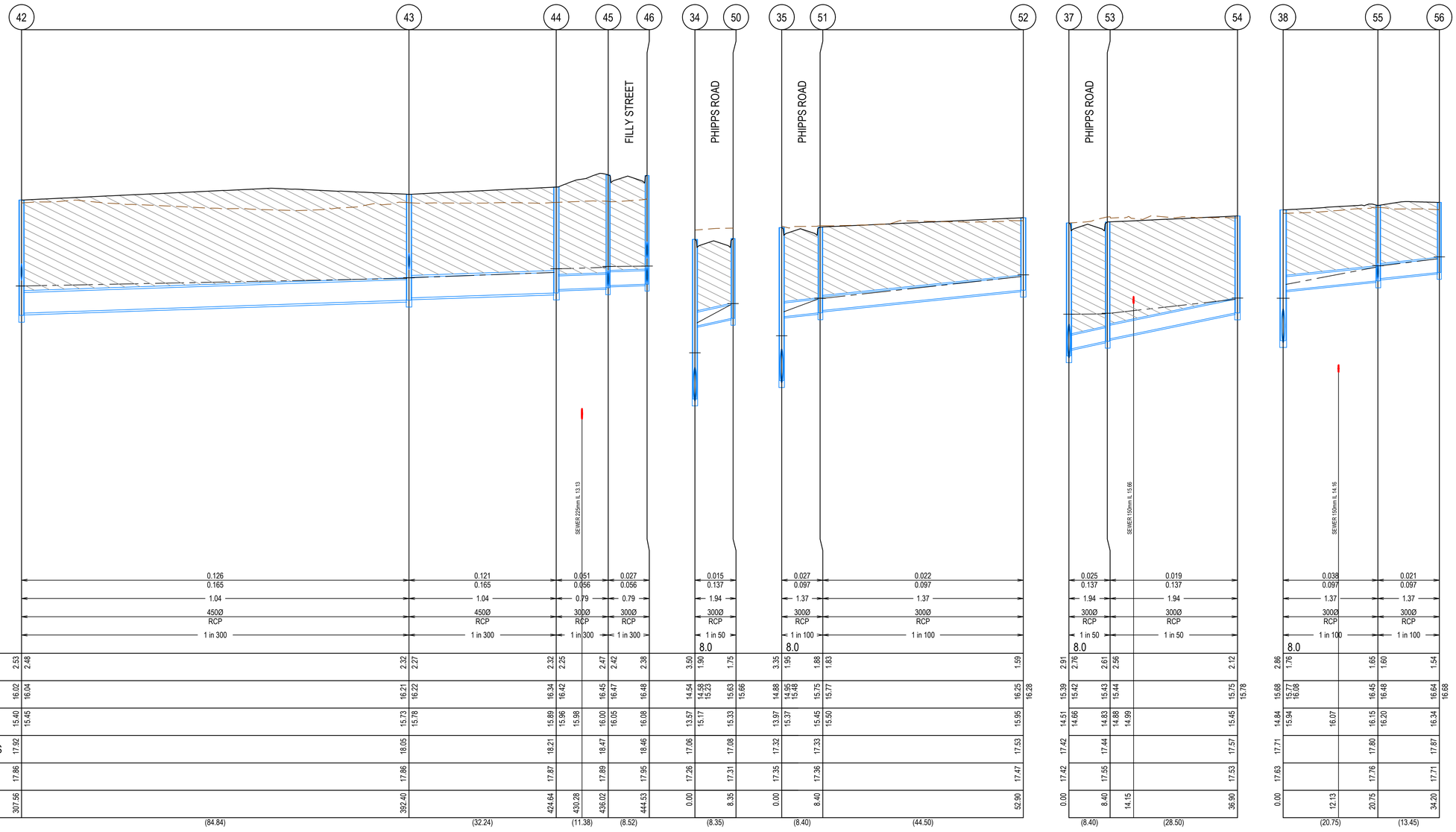
▨	CRUSHED ROCK BACKFILL CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

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OHS Management · AS/NZS 4801 Global-Mark.com.au®
Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

SMEC
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Ⓒ ABN 47 065 475 149
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 3

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-15	15 of 25	0

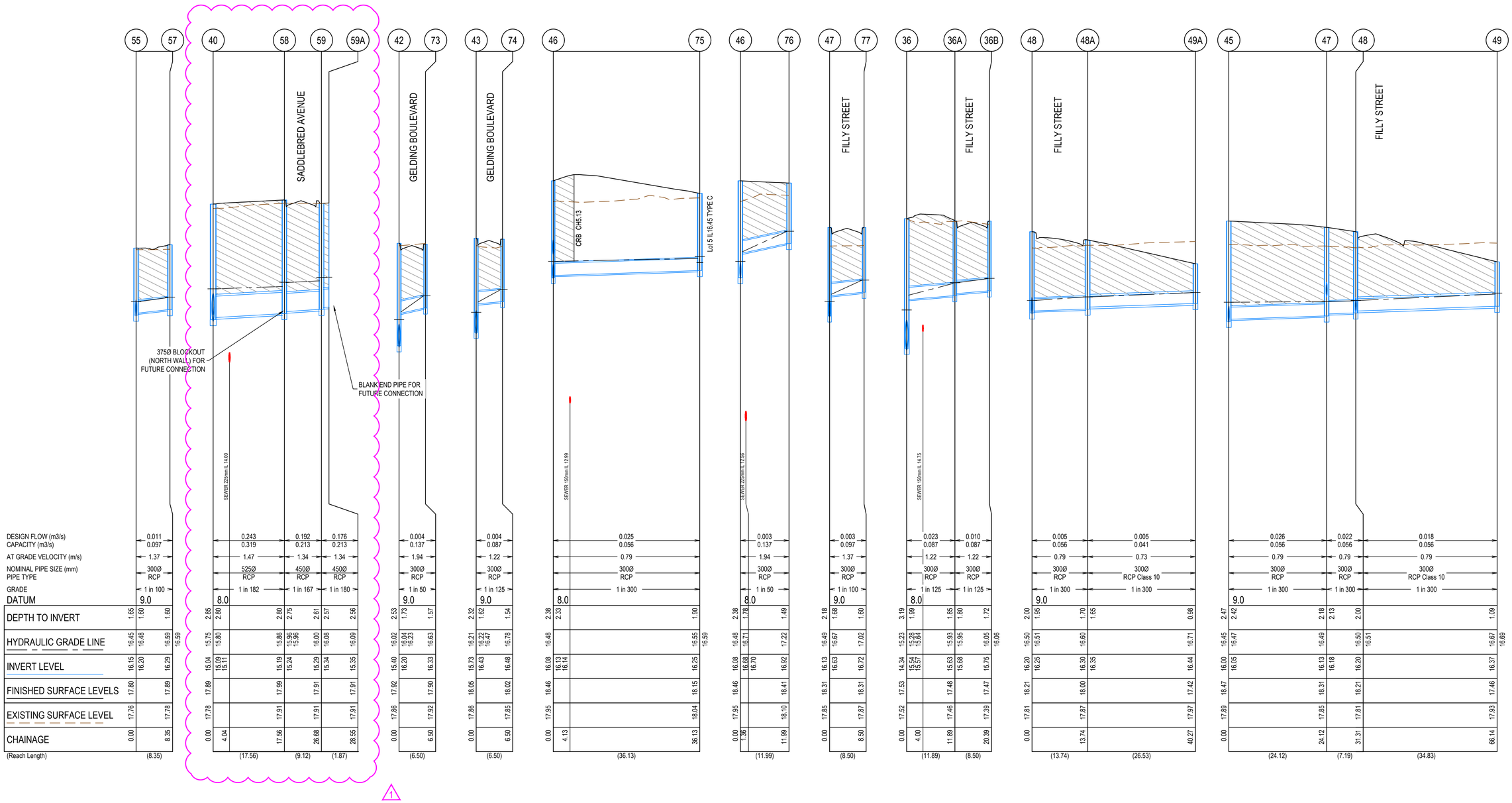
DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-15.dwg PRINTED BY: NG12326 on 22/02/2019 at 02:01:47 PM

NOTE

ALL DRAINAGE PIPES UP TO AND INCLUDING 750mm DIAMETER ARE CLASS 2 RCP PIPES RUBBER RING JOINTED UNLESS SPECIFIED OTHERWISE. ALL OTHER LARGER PIPES TO BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS UNLESS SPECIFIED OTHERWISE.

CRUSHED ROCK BACKFILL

CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV
1	18.02.19	DRAINAGE INTERFACE AMENDED	NG	LV

ISSUED FOR CONSTRUCTION

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

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YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 4

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-16	16 of 25	1

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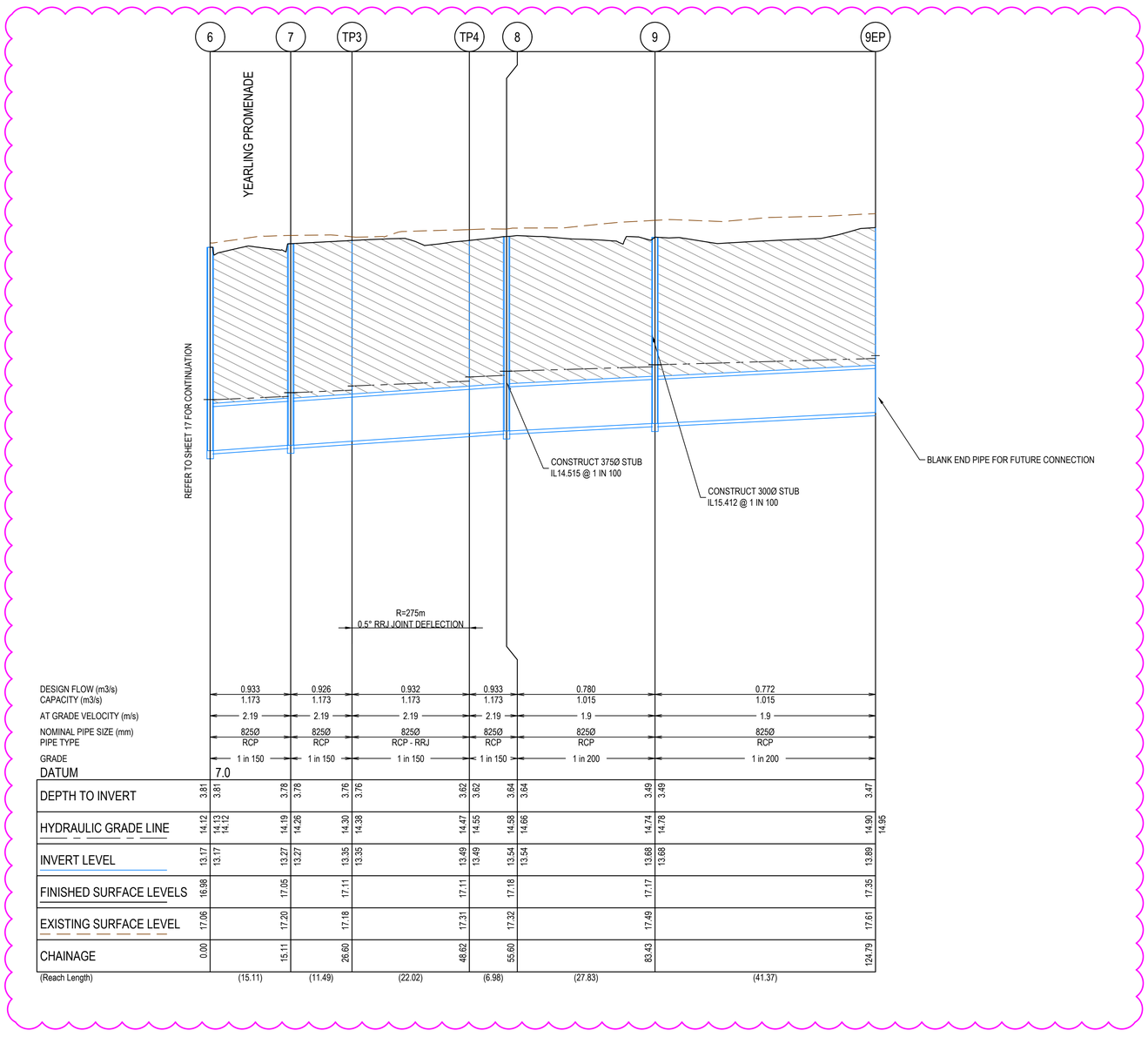

DESIGN FLOW (m3/s)		0.933		0.926		0.932		0.933		0.780		0.772	
CAPACITY (m3/s)		1.173		1.173		1.173		1.173		1.015		1.015	
AT GRADE VELOCITY (m/s)		2.19		2.19		2.19		2.19		1.9		1.9	
NOMINAL PIPE SIZE (mm)		825Ø		825Ø		825Ø		825Ø		825Ø		825Ø	
PIPE TYPE		RCP		RCP		RCP - RRJ		RCP		RCP		RCP	
GRADE		1 in 150		1 in 150		1 in 150		1 in 150		1 in 200		1 in 200	
DATUM	7.0												
DEPTH TO INVERT	3.81	3.81	3.78	3.78	3.76	3.62	3.62	3.64	3.64	3.49	3.49	3.47	
HYDRAULIC GRADE LINE	14.12	14.13 14.12	14.19	14.26	14.30	14.38	14.47	14.55	14.58	14.66	14.74	14.78	14.90 14.95
INVERT LEVEL	13.17	13.17	13.27	13.27	13.35	13.35	13.49	13.49	13.54	13.54	13.68	13.68	13.89
FINISHED SURFACE LEVELS	16.98		17.05		17.11		17.11		17.18		17.17		17.35
EXISTING SURFACE LEVEL	17.06		17.20		17.18		17.31		17.32		17.49		17.61
CHAINAGE	0.00		15.11		26.60		48.62		55.60		83.43		124.79
(Reach Length)			(15.11)		(11.49)		(22.02)		(6.98)		(27.83)		(41.37)

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DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
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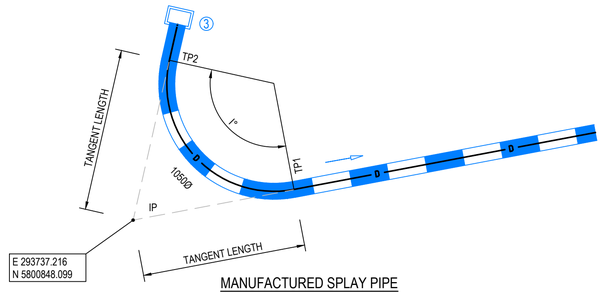
Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 5

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-17	17 of 25	1

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-17.dwg PRINTED BY: NG12326 on 22/02/2019 at 02:03:03 PM

PIT SCHEDULE

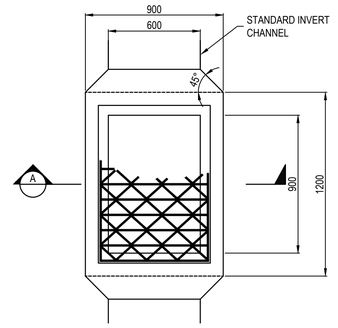
PIT		INTERNAL		INLET		OUTLET		PIT		STD DWG	REMARKS
NAME	TYPE	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH		
FUTURE OUTFALL WORKS											
A0	OUTFALL STRUCTURE			1200	3.175			4.375	1.2	MW SD 7251/08/103	PROVIDE OUTFALL STRUCTURE WITH ROCKWORK AS PER MW SD 7251/08/103 (REFER TO SHEETS 21-22)
A1	BUBBLE UP PIT	1700	900	1050	5.907	1200	3.224	7.428	4.205	MWC 7251/08/405 MWC 7251/08/423	PIT TO BE HAUNCHED TO 900x900 AS PER MWC STANDARD FLAT PIPE GRILL TOP AS PER MWC 7251/08/423
A2	BUBBLE UP PIT	1600	900	1050	9.239	1050	6.639	11.792	5.152	MWC 7251/08/405 MWC 7251/08/423	PIT TO BE HAUNCHED TO 900x900 AS PER MWC STANDARD FLAT PIPE GRILL TOP AS PER MWC 7251/08/423
STAGE 1 WORKS											
1	BUBBLE UP PIT	1600	900	1050	9.821	1050	9.771	12.223	2.452	MWC 7251/08/404 MWC 7251/08/423	PIT TO BE HAUNCHED TO 900x900 AS PER MWC STANDARD FLAT PIPE GRILL TOP AS PER MWC 7251/08/423
2	JUNCTION PIT	1600	900	1050	10.744	1050	10.694	12.647	1.915	MWC 7251/08/404	PIT TO BE HAUNCHED TO 900x900 AS PER MWC STANDARD
TP1	TANGENT POINT			1050	11.426	1050	11.426	14.937	3.561	-	MANUFACTURED SPLAY PIPE (DOUBLE ENDED)
TP2	TANGENT POINT			1050	11.889	1050	11.889	16.963	5.073	-	MANUFACTURED SPLAY PIPE (DOUBLE ENDED)
3	JUNCTION PIT	1400	900	1050	12.686	1050	11.984	16.963	4.977		
4	JUNCTION PIT	1950	4500	1050	12.764	1050	12.741	16.934	4.193	-	GPT TO BE HAUNCHED UNDER ROAD. EACH PIT OPENING TO BE HAUNCHED TO 600x900. (ROCLA CDS, ECOSOL GPT4600 OR SPEL VORTCEPTOR)
5	DOUBLE SIDE ENTRY PIT	1750	900	1050 450	12.822 14.757	1050	12.822	16.786	3.964	EDCM 602 & EDCM 608	PIT TO BE HAUNCHED TO 600x900
6	DOUBLE SIDE ENTRY PIT	1600	900	825 600	13.169 13.281	1050	12.981	16.981	3.999	EDCM 602 & EDCM 608	PIT TO BE HAUNCHED TO 600x900
7	DOUBLE SIDE ENTRY PIT	1350	900	825	13.27	825	13.27	17.049	3.779	EDCM 602 & EDCM 608	PIT TO BE HAUNCHED TO 600x900
8	JUNCTION PIT	1350	900	825 375	13.54 14.515	825	13.54	17.184	3.645	EDCM 608	PIT TO BE HAUNCHED TO 600x900 CONSTRUCT 375Ø STUB - IL14.515 @ 1 IN 100
9	JUNCTION PIT	1350	900	825 300	13.679 15.412	825	13.679	17.169	3.49	EDCM 608	PIT TO BE HAUNCHED TO 600x900 CONSTRUCT 300Ø STUB - IL15.412 @ 1 IN 100
9EP	ENDPIPE			825	13.877	825	13.885	17.352	3.475		BLANK END STUB FOR FUTURE CONNECTION
29	DOUBLE SIDE ENTRY PIT	600	900	300	15.171	450	15.021	16.941	1.92	EDCM 602 & EDCM 608	PIT TO BE HAUNCHED TO 600x900
30	DOUBLE SIDE ENTRY PIT	600	900			300	15.427	17.023	1.596		
45	SIDE ENTRY PIT	600	900	300 300	16.05 16.05	300	16	18.471	2.471	EDCM 601 & EDCM 605	
47	SIDE ENTRY PIT	600	900	300 300	16.181 16.631	300	16.131	18.315	2.184	EDCM 601 & EDCM 605	
48	JUNCTION PIT	750	900	300 300	16.255 16.255	300	16.205	18.208	2.003	EDCM 607	PIT TO BE HAUNCHED TO 600x900
49	SIDE ENTRY PIT	600	900			300	16.371	17.465	1.094	EDCM 605	
34	DOUBLE SIDE ENTRY PIT	900	900	600 300	13.616 15.166	600	13.566	17.061	3.496	EDCM 602 & EDCM 608	PIT TO BE HAUNCHED TO 600x900
35	SIDE ENTRY PIT	900	900	600 300	14.019 15.369	600	13.969	17.319	3.351	EDCM 601 & EDCM 607	PIT TO BE HAUNCHED TO 600x900
36	SIDE ENTRY PIT	900	900	600 300	14.386 15.536	600	14.336	17.529	3.193	EDCM 601 & EDCM 607	PIT TO BE HAUNCHED TO 600x900
37	DOUBLE SIDE ENTRY PIT	900	900	600 300	14.562 14.662	600	14.512	17.422	2.909	EDCM 602 & EDCM 607	PIT TO BE HAUNCHED TO 600x900
38	SIDE ENTRY PIT	900	1200	600 300	14.895 15.945	600	14.845	17.706	2.862	EDCM 601 & EDCM 607 VIC ROADS SD 1023	PIT TO BE DOUBLE HAUNCHED TO 600x900 AS PER VIC ROADS SD 1023
39	SIDE ENTRY PIT	1200	900	600	15	600	14.95	17.746	2.796	EDCM 601 & EDCM 607	PIT TO BE HAUNCHED TO 600x900
40	SIDE ENTRY PIT	1200	1200	450 525	15.193 15.093	600	15.043	17.888	2.845	EDCM 601 & VR SD 1023	PIT TO BE DOUBLE HAUNCHED TO 600x900 AS PER VIC ROADS SD 1023
41	SIDE ENTRY PIT	900	900	450	15.299	450	15.249	18.048	2.798	EDCM 601 & EDCM 607	PIT TO BE HAUNCHED TO 600x900
42	DOUBLE SIDE ENTRY PIT	750	900	450 300	15.447 16.197	450	15.397	17.923	2.526	EDCM 602 & EDCM 607	PIT TO BE HAUNCHED TO 600x900
43	DOUBLE SIDE ENTRY PIT	750	900	450 300	15.78 16.43	450	15.73	18.047	2.317	EDCM 602 & EDCM 607	PIT TO BE HAUNCHED TO 600x900
44	SIDE ENTRY PIT	750	900	300	15.962	450	15.887	18.207	2.32	EDCM 601 & EDCM 607	PIT TO BE HAUNCHED TO 600x900
46	SIDE ENTRY PIT	600	900	300 300	16.129 16.679	300	16.079	18.461	2.382	EDCM 601 & EDCM 605	
50	DOUBLE SIDE ENTRY PIT	600	900			300	15.333	17.081	1.748	EDCM 602 & EDCM 605	
51	SIDE ENTRY PIT	600	900	300	15.503	300	15.453	17.329	1.877	EDCM 601 & EDCM 605	
52	JUNCTION PIT	600	900			300	15.948	17.535	1.587	EDCM 605	
53	DOUBLE SIDE ENTRY PIT	600	900	300	14.881	300	14.831	17.442	2.611	EDCM 602 & EDCM 605	
54	JUNCTION PIT	600	900			300	15.451	17.574	2.124	EDCM 605	
55	GRATED PIT	600	900	300 300	16.202 16.202	300	16.152	17.803	1.651	EDCM 605	REFER TO ADJACENT DETAIL. TRAFFICABLE GRATE/LID
56	GRATED PIT	600	900			300	16.337	17.873	1.537	EDCM 605	REFER TO ADJACENT DETAIL. TRAFFICABLE GRATE/LID
57	SIDE ENTRY PIT	600	900			300	16.285	17.885	1.6	EDCM 601 & EDCM 605	
58	SIDE ENTRY PIT	900	900	450 375	15.24 15.264	525	15.19	17.989	2.8	EDCM 601 & EDCM 605	PROVIDE 375Ø BLOCKOUT ON NORTH WALL FOR FUTURE CONNECTION
59	GRATED PIT	600	900	450	15.341	450	15.291	17.908	2.617	EDCM 602 & EDCM 607	REFER TO ADJACENT DETAIL. PIT TO BE HAUNCHED TO 600x900
59a	ENDPIPE			450	15.35	450	15.35	17.916	2.566	EDCM 605	STUB FOR FUTURE CONNECTION
73	DOUBLE SIDE ENTRY PIT	600	900			300	16.327	17.9	1.573	EDCM 602 & EDCM 605	
74	DOUBLE SIDE ENTRY PIT	600	900			300	16.482	18.025	1.543	EDCM 602 & EDCM 605	
75	JUNCTION PIT	600	900			300	16.249	18.152	1.903	EDCM 605	
76	SIDE ENTRY PIT	600	900			300	16.919	18.406	1.488	EDCM 601 & EDCM 605	CLASS D - CAST IRON HEAVY DUTY PIT LID
77	SIDE ENTRY PIT	600	900			300	16.716	18.312	1.596	EDCM 601 & EDCM 605	
36a	DOUBLE SIDE ENTRY PIT	600	900	300	15.681	300	15.631	17.477	1.846	EDCM 602 & EDCM 605	
36b	DOUBLE SIDE ENTRY PIT	600	900			300	15.749	17.47	1.72	EDCM 602 & EDCM 605	
48a	JUNCTION PIT	750	900	268	16.35	300	16.3	18.003	1.703	EDCM 607	PIT TO BE HAUNCHED TO 600x900
49a	SIDE ENTRY PIT	600	900			268	16.439	17.418	0.979	EDCM 601 & EDCM 605	



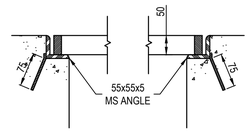
MANUFACTURED SPLAY PIPE
SETOUT DETAIL
NOT TO SCALE

CURVED PIPE INFORMATION					
LOCATION	PIPE TYPE	CENTRE RADIUS (m)	ARC LENGTH (m)	TANGENT LENGTH (m)	I°
TP1-TP2	MANUFACTURED SPLAY PIPE (DOUBLE ENDED)	7.00	13.861	10.536	112.8
TP3-TP4	RRJ JOINT DEFLECTION - 0.5°	275.00	22.01	11.090	5.2

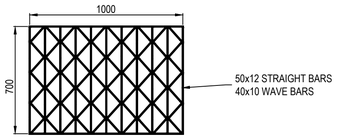
1



PLAN

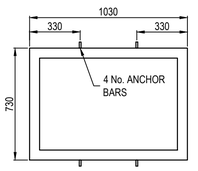


SECTION THROUGH GRATE

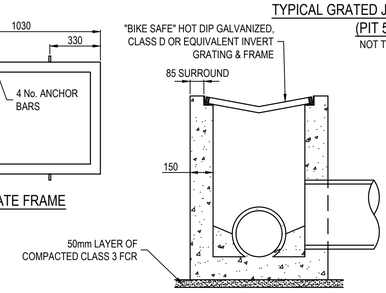


GRATE

TYPICAL GRATED JUNCTION PIT DETAIL
(PIT 55 & 56)
NOT TO SCALE



GRATE FRAME



SECTION A-A

JUNCTION PIT NOTES

1. ALL WALLS TO BE 150mm THICK
2. REFER TO STD. DWG. No. SD 5 FOR PIT DETAILS. IF PIPE DIA. EXCEEDS 450mm REFER TO STD. DWG. No. SD 6.
3. A.G. INVERT TO BE 150mm BELOW SUBGRADE LEVEL.
4. SUBBASE DRAINAGE: 40mm DIA. CLASS 18 UPVC STUB.
5. PROVIDE STEP IRONS FOR PIT DEPTH EXCEEDING 1.0m,
6. CONCRETE STRENGTH 25MPa - REFER TO MELTON SHIRE COUNCIL SPECIFICATION, SECTION 5
7. GRATE FRAME TO BE "BIKE SAFE" TO AS3996-1992
8. ALL DIMENSIONS ARE IN MILLIMETRES

SERVICE LOCATIONS ARE IN ACCORDANCE WITH APPENDIX H OF THE MPA GUIDELINES AND THE DETAIL PLAN **SHOULD NOT** BE RELIED UPON FOR THE ACCURATE POSITIONING OF **DRAINAGE LINES GREATER THAN 450dia. BEHIND BACK OF KERB**. PIPES GREATER THAN 450dia, WILL BE HAUNCHED UNDERNEATH KERB AND CHANNEL WHERE APPLICABLE TO ENSURE THAT PIT WIDTH BEHIND BACK OF KERB DOES NOT EXCEED 0.9m.

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YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Pit Schedule

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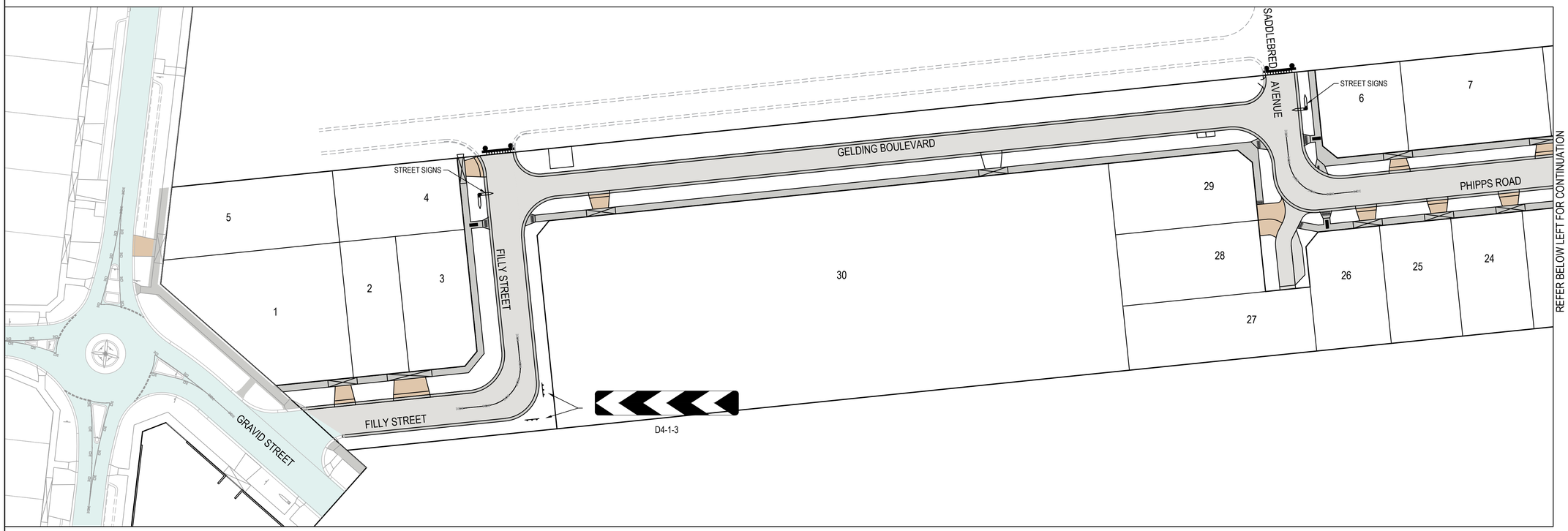

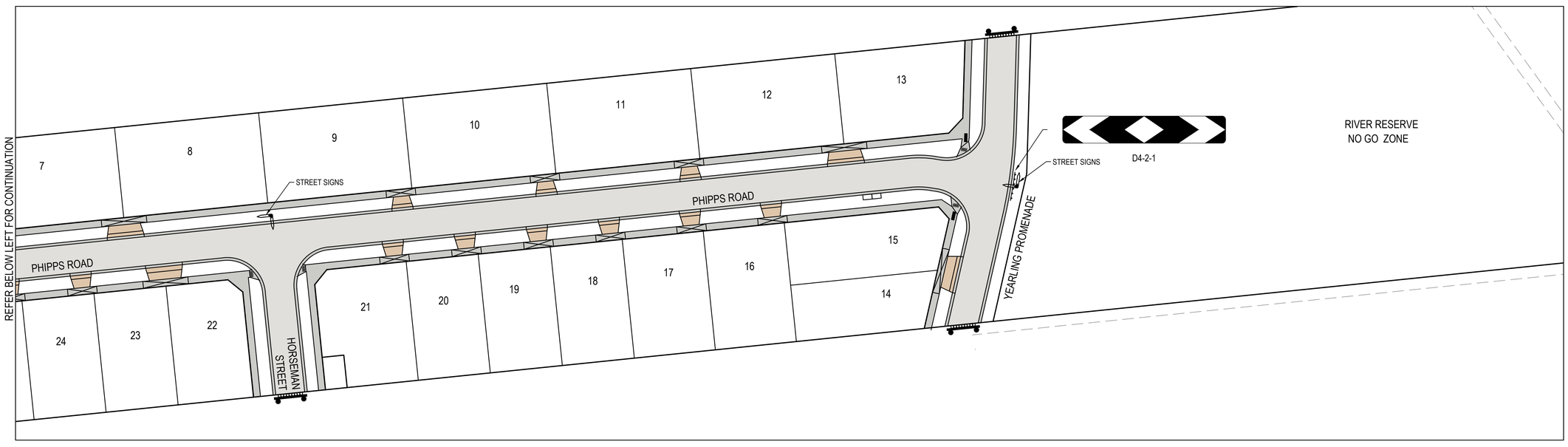

NOTES
1. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPM'S AT MAX 6m SPACING.
2. RRPMs TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL MANUAL VOL 2.
3. ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

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Scale 1:500
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YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Signage & Linemarking Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
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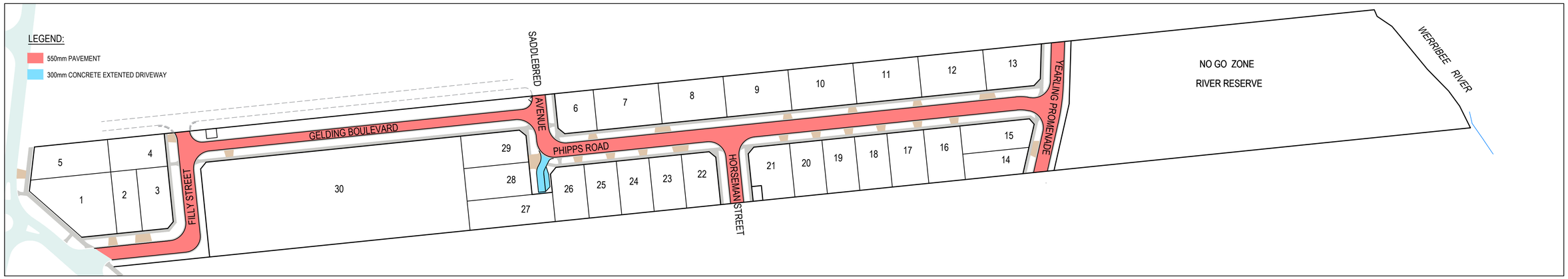
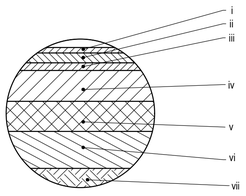
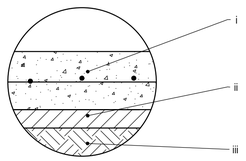




PAVEMENT COMPOSITION
KEY DIAGRAM

ACCESS LEVEL 1 PAVEMENT COMPOSITIONS - FILLY STREET, GELDING BOULEVARD, SADDLEBRED AVENUE, PHIPPS ROAD, HORSEMAN STREET & YEARLING PROMANADE			
550mm DEPTH PAVEMENT COMPOSITION		LAYER THICKNESS (mm)	MATERIAL
PAVEMENT LAYER			
ASPHALT	(i) WEARING COURSE	30	10mm NOM. SIZE ASPHALT TYPE N
	(ii) STRUCTURAL COURSE	30	10mm NOM. SIZE ASPHALT TYPE N
	(iii) BITUMINOUS PRIME	10	10mm DEPTH SAMI SEAL (S18RF) ≥ 1.81/m^2 BINDER APPLICATION RATE AND PRIME.
BASE COURSE	(iv) BASE	130	20mm CLASS 2 FCR COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289, 5.2.1
SUBBASE COURSE	(v) UPPER SUBBASE	200	20mm CLASS 3 FCR COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289, 5.2.1
CAPPING	(vi) CAPPING LAYER	150	TYPE A MATERIAL (SELECT FILL) CBR ≥ 7%, SWELL ≤ 1.5%, PERMEABILITY k ≤ 1x10^-9m/s. COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) AS1289, 5.1.1
SUBGRADE	(vii) ONLY REQUIRED WHERE CBR<2.0%		COMPACTED CLAY FILL -98% AUSTRALIAN STANDARD COMPACTION



PAVEMENT COMPOSITION
KEY DIAGRAM

EXTENDED DRIVEWAY PAVEMENT COMPOSITION			
300mm DEPTH PAVEMENT COMPOSITION		LAYER THICKNESS (mm)	MATERIAL
PAVEMENT LAYER			
CONCRETE	(i) WEARING COURSE	200	32MPa PLAIN CONCRETE, LIGHT BRUSH FINISH REINFORCED WITH SL82 MESH (40mm TOP COVER) AND TIED INTO THE KERBS AS PER THE ADJOINING CONSTRUCTION JOINT DETAIL
BASE COURSE	(ii) BASE	100	CLASS 3 20mm NOM SIZE FCR BASE COMPACTED TO 98% AS PER WCC SD11
SUBGRADE	(iii) ONLY REQUIRED WHERE CBR<2.0%		COMPACTED CLAY FILL -98% AUSTRALIAN STANDARD COMPACTION

PAVEMENT DETAIL NOTE

1. TOP 200mm OF CRUSHED ROCK FOR ALL PAVEMENTS COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289.5.2.1 STANDARD AND PROOF ROLLED
2. CRUSHED ROCK LAYERS TO BE LAID NO THICKER THAN 200mm PRIOR TO ADEQUATE COMPACTION

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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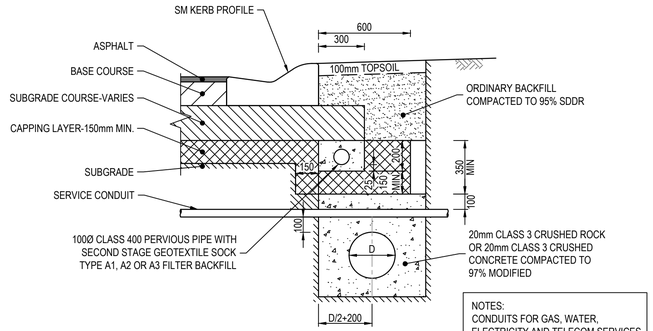
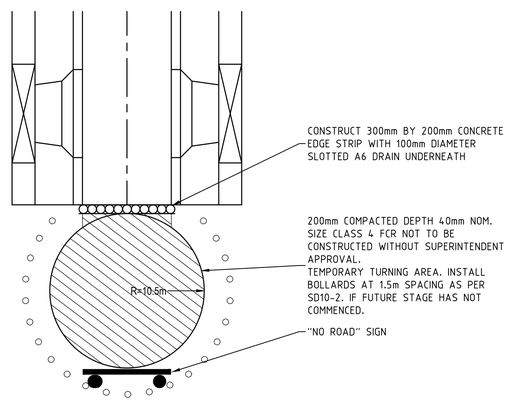
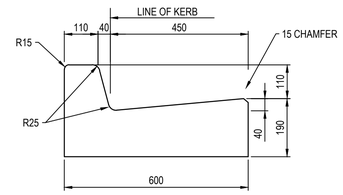


SUBSOIL DRAIN
(EXPANSIVE SOILS)
NOT TO SCALE

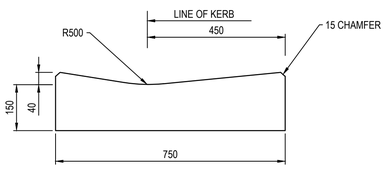
NOTES:
CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN



TEMPORARY TURN AREA DETAIL
NOT TO SCALE



600 B2 KERB DETAIL
SCALE 1:10
EDCM



750 INVERT CHANNEL DETAIL
TO INTERSECT WITH 600 WIDTH
BARRIER KERB AND CHANNEL DETAIL
SCALE 1:10
EDCM

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV

ISSUED FOR CONSTRUCTION

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

N

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Level 10, 71 Queens Road
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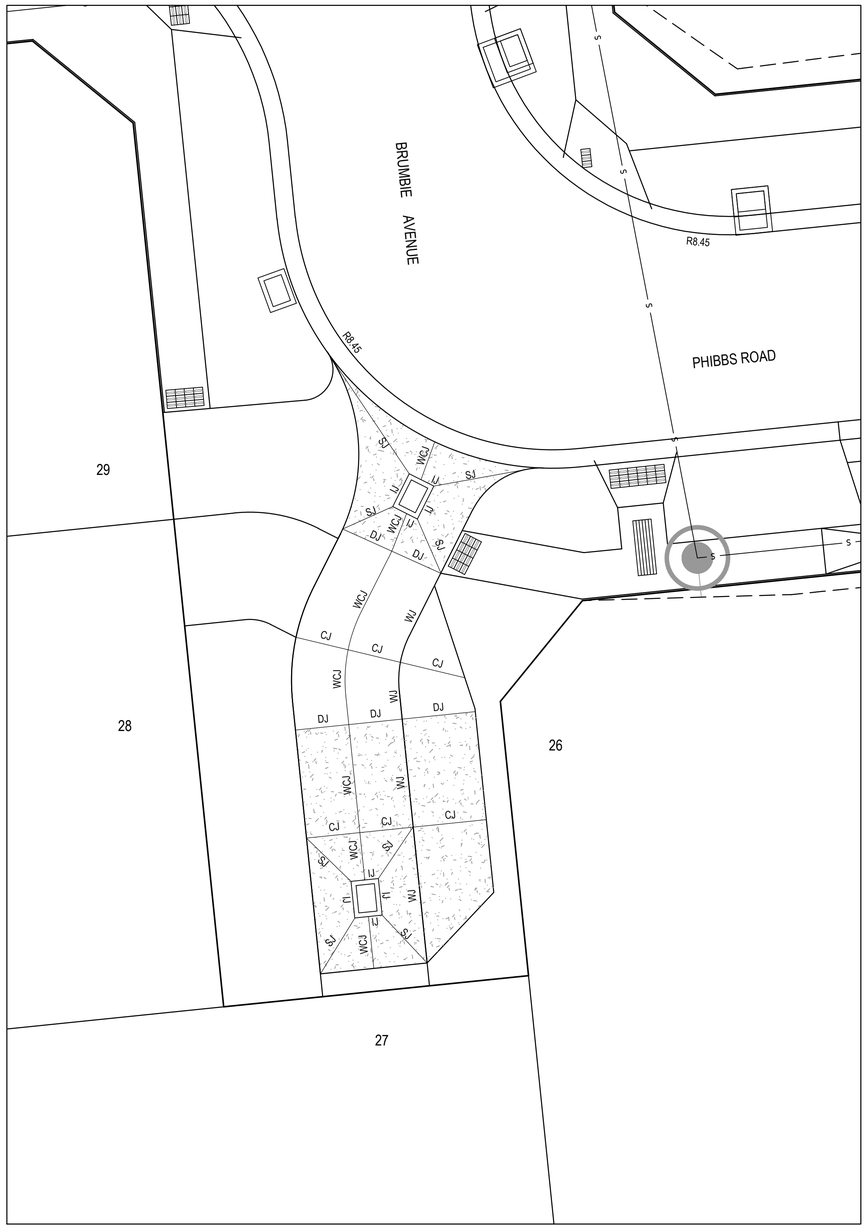
YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
General Notes & Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-20	20 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-20.dwg PRINTED BY: NG12326 on 26/03/2019 at 01:46:13 PM



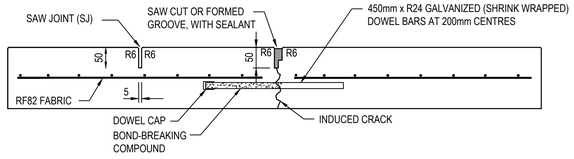
EXTENDED DRIVEWAY JOINTING DETAILS

ALTERNATE

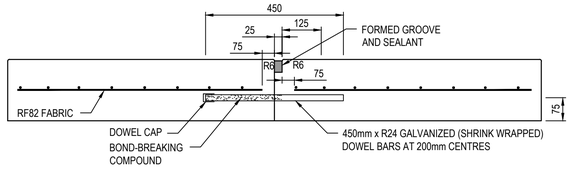
CONCRETE PLACEMENT SEQUENCE

JOINT DETAIL NOTES:

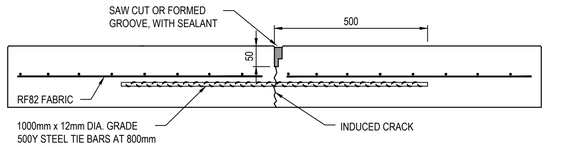
1. SAW JOINTS ARE TO BE PLACED AT A MAXIMUM 5m SPACING AT INTERSECTIONS AND CONSTRUCTED 18-24 HOURS AFTER POURING.
2. TRANSVERSE/CONTRACTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 12m.
3. ISOLATION JOINTS ARE TO BE PLACED AROUND PITS.
4. ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH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



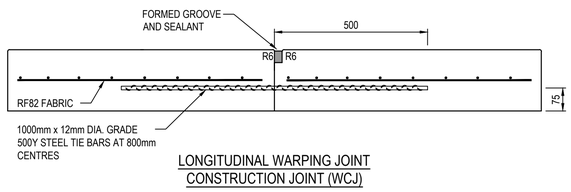
TRANSVERSE CONTRACTION JOINT
SAW JOINT (SJ) AND TRANSVERSE CONTRACTION JOINT (CJ)



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



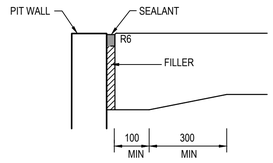
LONGITUDINAL WARPING JOINT
WEAKENED PLANE JOINT (WJ)



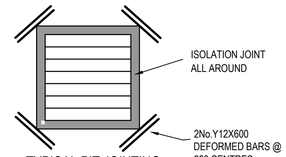
LONGITUDINAL WARPING JOINT
CONSTRUCTION JOINT (WCJ)

CONCRETE JOINTING DETAILS

NOT TO SCALE



ISOLATION JOINT (IJ)



TYPICAL PIT JOINTING

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
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No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

0 1 2 4
Scale 1:100
SCALE AS SHOWN AT A1

N

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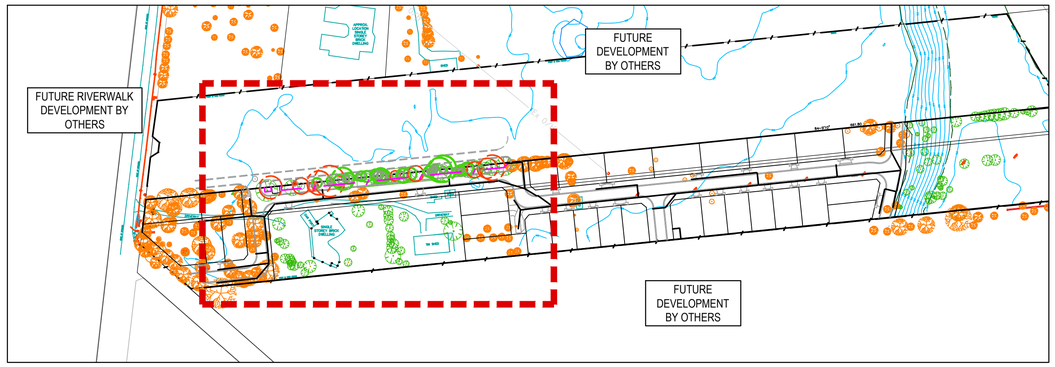
YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Extended Driveway
Concrete Jointing Detail

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-21	21 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-21.dwg PRINTED BY: SS20207 on 11/01/2019 at 02:18:18 PM

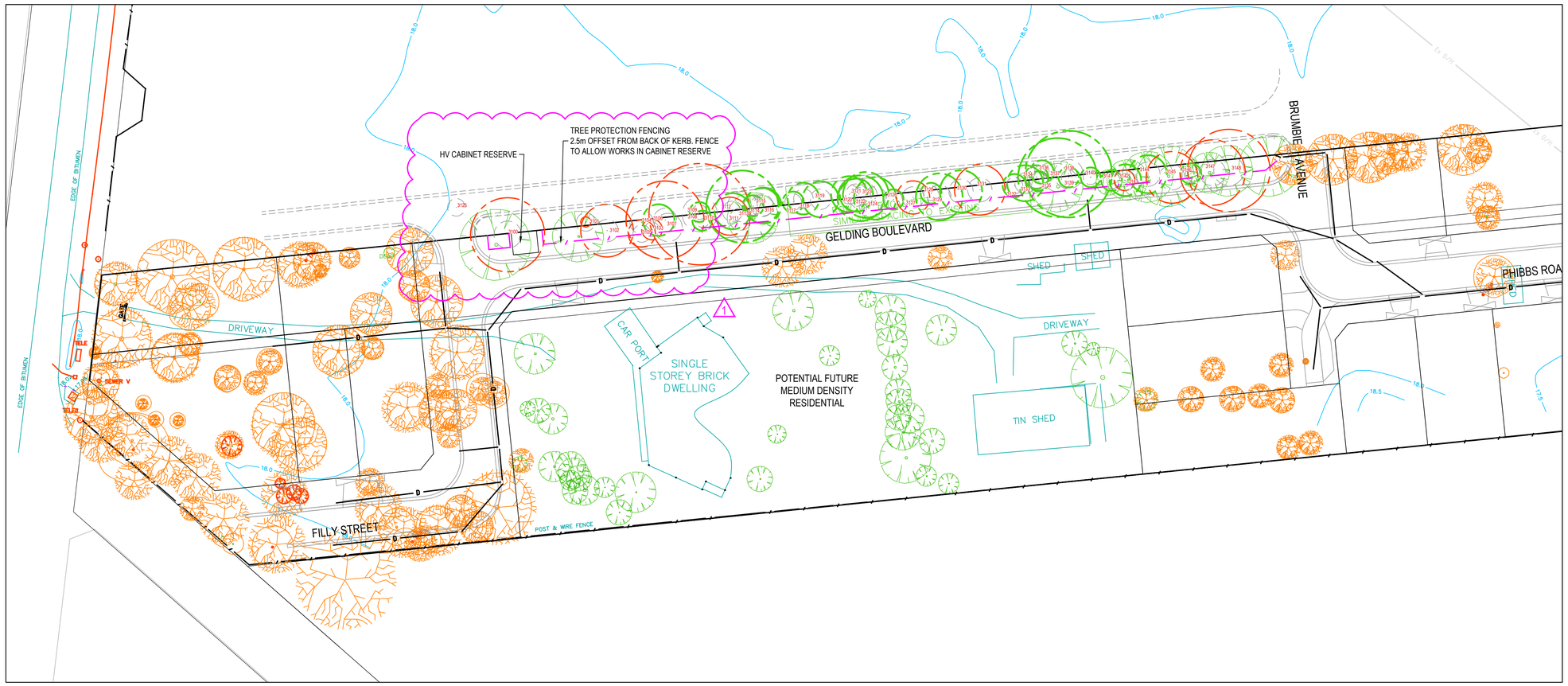
LOCALITY PLAN



LEGEND

- TREE PROTECTION ZONE (TREES IMPACTED BY PROPOSED DEVELOPMENT - CANNOT BE SAVED)
- TREE PROTECTION ZONE (TREES WHICH CAN BE RETAINED)
- STRUCTURAL ROOT ZONES
- TREE PROTECTION FENCING

DETAILED PLAN



TREES TO BE RETAINED:

- 3100(2)
- 3102
- 3104
- 3109
- 3110
- 3113
- 3122
- 3123
- 3124
- 3125
- 3128
- 3128A
- 3129
- 3130
- 3132
- 3133
- 3137
- 3138
- 3141
- 3143
- 3144
- 3145(2)
- 3146
- 3148(2)

STRUCTURAL ROOT ZONES IMPLICATED BY WORKS(2)

- 3100
- 3102
- 3103
- 3105
- 3107
- 3108
- 3111
- 3129
- 3131
- 3141
- 3142
- 3143
- 3144
- 3145
- 3146
- 3147
- 3148

NOTE:

1. EVERY EFFORT SHOULD BE TAKEN TO SAVE AND PROTECT TREES HIGHLIGHTED & LISTED ON THIS PLAN.
2. IF THE SITUATION PRESENTS ITSELF WHERE A TREE CANNOT BE SAVED CONSULTATION BETWEEN COUNCIL AND A QUALIFIED ARBORIST IS TO OCCUR TO DETERMINE APPROPRIATE ACTION.
3. TREE PROTECTION FENCING TO BE INSTALLED AT 2.5M BEHIND BACK OF KERB TO ENSURE THE CONSTRUCTABILITY OF THE INFRASTRUCTURE. THERE MAY BE OCCASIONS WHERE CHANGES ARE REQUIRED TO THE FENCING DUE TO SITE CONDITIONS OR AS NEEDED TO EFFICIENTLY DELIVER THE WORKS. SHOULD CHANGES BE REQUIRED THE SUPERINTENDENT AND COUNCIL SHALL BE NOTIFIED.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV
1	26.03.19	HV CABINET RESERVE ACCESS ALLOWED	NG	LV

ISSUED FOR CONSTRUCTION

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

N

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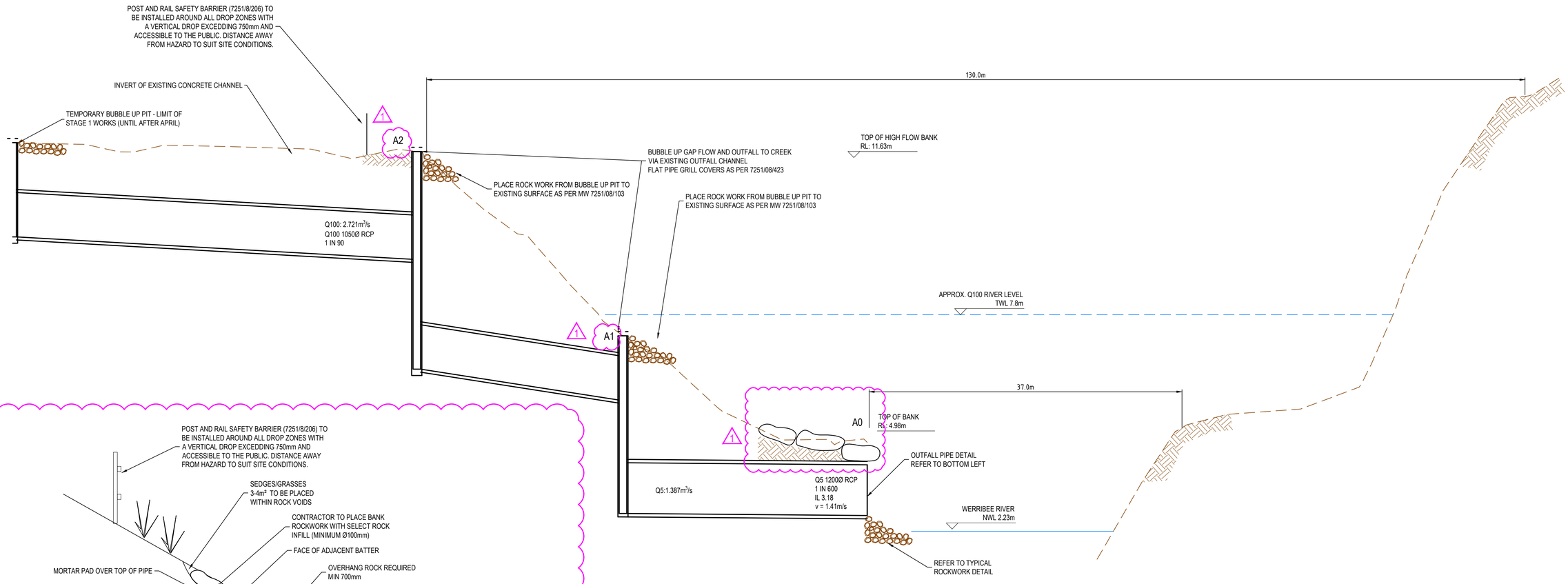
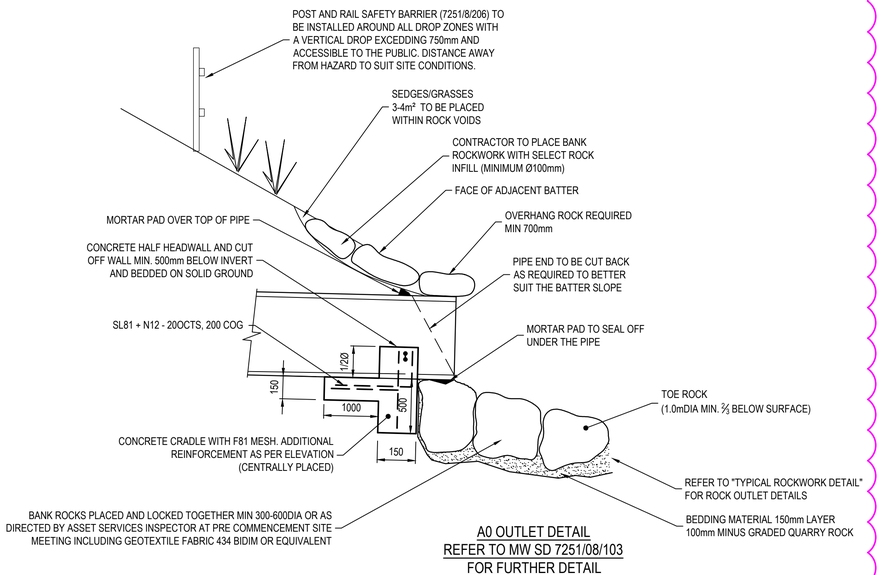
Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Tree Removal and Protection Plan
Gelding Boulevard

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-22	22 of 25	1

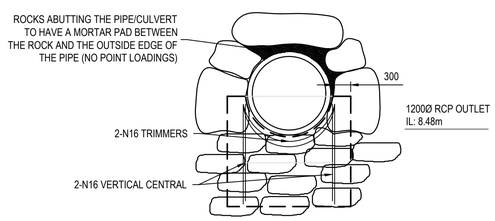
DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-22.dwg PRINTED BY: NG12326 on 26/03/2019 at 01:41:43 PM



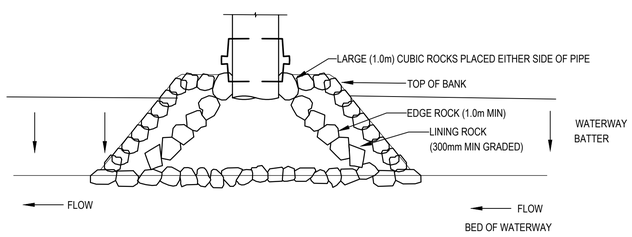
WERRIBEE RIVER CROSS SECTION
ULTIMATE OUTFALL SYSTEM
SCALE H- 1:250 V- 1:50 (A1)



A0 OUTLET DETAIL
REFER TO MW SD 7251/08/103 FOR FURTHER DETAIL
NOT TO SCALE



A0 OUTFALL ELEVATOIN
ELEVATION



TYPICAL ROCKWORK DETAIL
NOT TO SCALE

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED FOR CONSTRUCTION	NG/SS	LV
1	22.01.19	ISSUED FOR CONSTRUCTION	NG/HE	LV

ISSUED FOR CONSTRUCTION

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

SCALE AS SHOWN AT A1

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YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Outfall and Rock Chute
Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-23	23 of 25	1

CONTRACTOR TO ENSURE ALL MEASURES REQUIRED TO PROTECT THE TREES WITHIN THE CENTRAL MEDIAN OF GELDING BOULEVARD ARE FOLLOWED. REFER TO DWG 2052E-01-20 & ARBORIST REPORT FOR FURTHER DETAIL

HV SWITCH CABINET RESERVE

ROW OF EUCALYPTS SIMILAR SPACING TO EXISTING

GELDING BOULEVARD

EXISTING SHEDS TO BE REMOVED

FILLY STREET

FILLY STREET

POST & WIRE FENCE

EXISTING HOUSE TO REMAIN

RIVERWALK DEVELOPMENT STAGE 19B

REFER BELOW LEFT FOR CONTINUATION

FUTURE DEVELOPMENT

EXISTING O/H ELECTRICAL POLE POLE AND O/H LINE TO BE REMOVED

EXISTING PRIVATE WATER MAIN TO BE ABANDONED AND REMOVED

SADDLEBRED AVENUE

PHIPPS ROAD

PHIPPS ROAD

HORSEMAN STREET

YEARLING PROMENADE

NO GO ZONE

RIVER RESERVE

EXISTING WATER TO BE REMOVED WITHIN THE SCOPE OF STAGE WORKS AND ABANDONED AT THE RESERVE BOUNDARY

FUTURE DEVELOPMENT

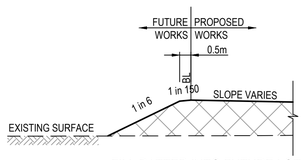
REFER ABOVE RIGHT FOR CONTINUATION

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
Ex H	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
Ex 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
Ex GWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
Fut S	FUTURE SEWER & MAINTENANCE STRUCTURES
Fut 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
Fut 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



FILL BATTER INTO FUTURE LOT

NOT TO SCALE

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

SCALE AS SHOWN AT A1

SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

YourLand Developments

Farm Road, Werribee - Stage 1
Wyndham City Council
Road and Drainage
Earthworks Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2052E-01-24	24 of 25	0

DWG PATH: V:_Vault\Projects_Urban\2052E-Farm Road, Werribee\2052E-01\Dwgs\2052E-01-24.dwg PRINTED BY: NG12326 on 26/03/2019 at 01:41:59 PM

PHASE	DISCIPLINE CODE		RISK REGISTER -Construction- Operations- Maintenance POTENTIAL RISK		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
Construction	RD	#N/A	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	#N/A	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	#N/A	Utilities become a hazard within clear zones		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	#N/A	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	#N/A	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	#N/A	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	#N/A	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
	Drainage												
Operational	DR	#N/A	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	#N/A	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	#N/A	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	#N/A	Culvert Endwall/Headwall Outlets	Children playing in large pipes / watercourses and access for maintenance	Relevant Authority	Increased potential for accidents	Restricted access to outlet structure by pit and grate design. Grate provided to authority standards	Design in accordance with authority and manufacturers standards	N	2	5	10	Authority
Maintenance	DR	#N/A	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	#N/A	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	#N/A	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												
Maintenance	SE	#N/A	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	#N/A	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
	Electricity												
Operational	ES	#N/A	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	#N/A	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	#N/A	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	#N/A	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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
0	11.01.19	ISSUED TO COUNCIL FOR APPROVAL	NG/SS	LV

ISSUED FOR CONSTRUCTION

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

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

N

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Safety In Design

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