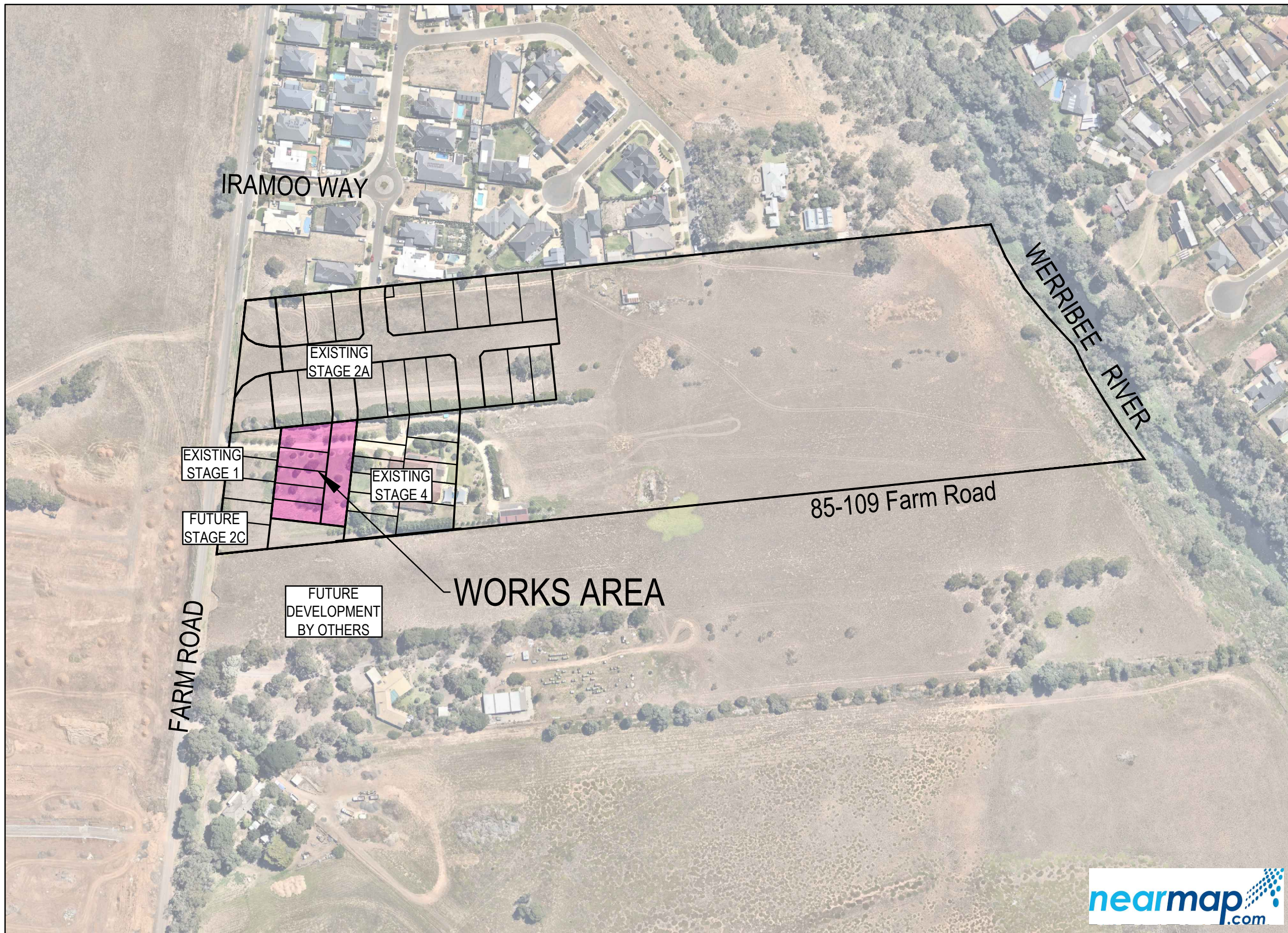


85-109 Farm Road

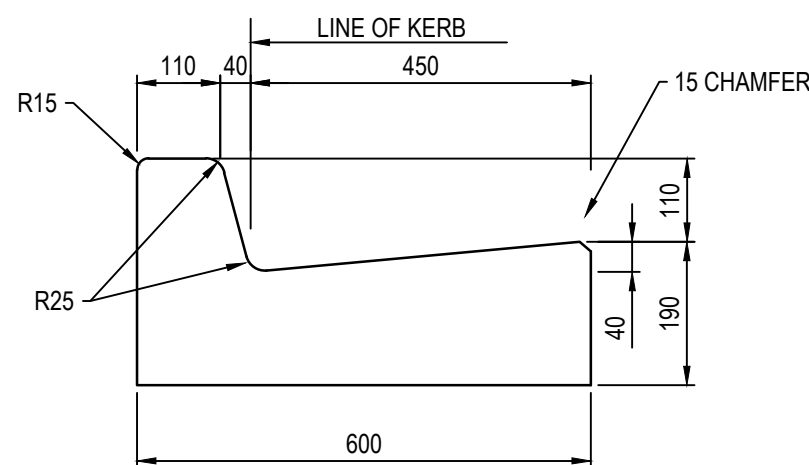
Stage 02B



Drawing Index

2053E-02B-01 Cover Plan
2053E-02B-02 Layout Plan
2053E-02B-03 Longitudinal Sections
2053E-02B-04 Road Cross Section From CH:69.98 to 137.29
2053E-02B-05 Drainage Longitudinal Section and Pit schedule
2053E-02B-06 Pavement Details
2053E-02B-85 Safety In Design

SURVEY CONTROL POINTS				
POINT	EASTING	NORTHING	RL (AHD)	DESCRIPTION
C9SSPL	293237.37	5800882.04	18.22	STEEL STAR PICKET
C40SSPL	293242.18	5800884.63	18.26	STEEL STAR PICKET
C21RVCTL	293266.31	5801094.97	18.55	RIVET
C22RVCTL	293276.24	5801175.39	18.62	RIVET
C39SSPL	293350.40	5801101.06	18.21	STEEL STAR PICKET
C26RVTKL	293354.13	5801168.79	19.10	RIVET
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



GENERAL NOTES (WYNDHAM CITY COUNCIL)

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDM 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 COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
- 3.1. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
- 3.2. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER.
7. ALL ROAD CHANGINGS ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEDS, WHERE LIP OF KERB CHANGINGS ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, VERTICAL 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 EDM303. 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 DRAWING EDM202 (EXPANSIVE SUBGRADE).
10. ALL LINEMARKING AND TRAFFIC CONTROL DEVICES TO BE IN ACCORDANCE WITH VICROADS REQUIREMENTS WITH LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL: DEGAOUR OR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VICROADS SPECIFICATION SEE SECTION 710.8722).
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 TRENCHING STANDARD AS 3708 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 SUCH 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 ROP PIPES, RUBBER JOINT 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 SDE-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 TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS EDM 501 TO 503. DRIVEWAYS TO BE LOCATED MIN 0.75m FROM BUILDING LINE UNLESS SPECIFIED OTHERWISE AND CLEAR OF DRAINAGE PITS, SEWER MAINS/MAINTENANCE HOLES AND EXISTING TREES. DOUBLE DRIVEWAY WIDTH TO BE 7.0m AT FRONT OF PATH-BUILDING LINE.
24. ADDITIONAL AND OVER-EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
25. FOOTPATH CROSSFALL TO BE 1:50
26. ALL FOOTPATHS AND SHARED PEDESTRIAN/BICYCLE PATHS ARE TO BE CONSTRUCTED AS PER CITY OF WYNDHAM SPECIFICATIONS AND MPA STANDARD DRAWINGS EDM 401 TO 403.
27. 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.
28. INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRRPM) ON ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE LOCATION OF FIRELUG.
29. 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.
30. 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.
31. EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATE TO THE SATISFACTION OF THE COUNCIL ENGINEER.
32. THE LOWER SUB-BASE MATERIAL SHALL BE N.D.C.R. FOR PAVEMENT MAKE UPS AS PER THE STANDARD DRAWINGS OF WYNDHAM CITY COUNCIL.
33. TOTAL LENGTH OF ROADS CONSTRUCTED IS 63 m
- TOTAL LENGTH OF DRAINS CONSTRUCTED IS 129 m

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 CONTRACTOR'S ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AASHTO 372S-2007, LOADS ON BURIED PIPES.
2. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPLACED & RELAID AT THE CONTRACTOR'S COST.

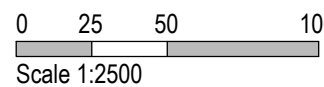
AS CONSTRUCTED PLANS

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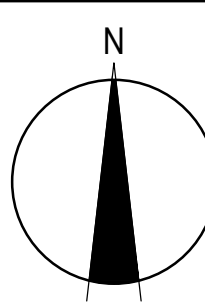
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TITLE	NAME
DRAFTER	H.Ehsani
DESIGNER	N.Green
CHECKED	L.Veiyr
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

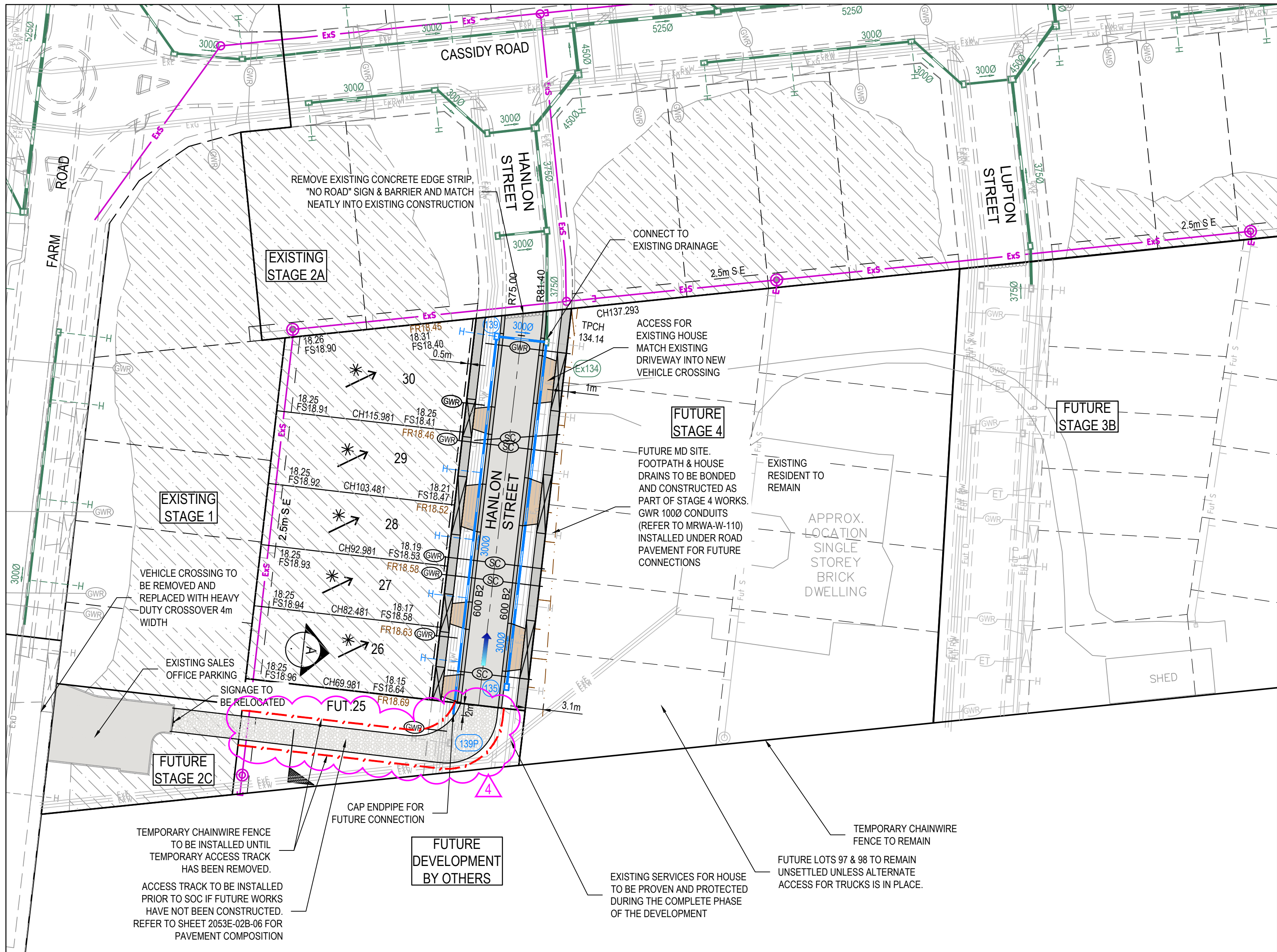


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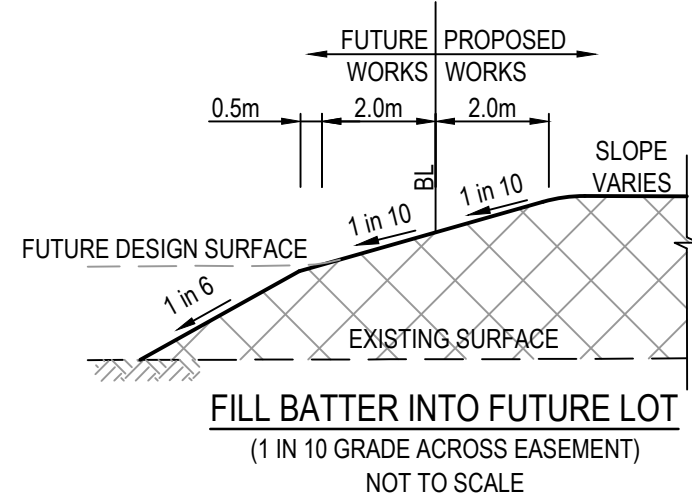
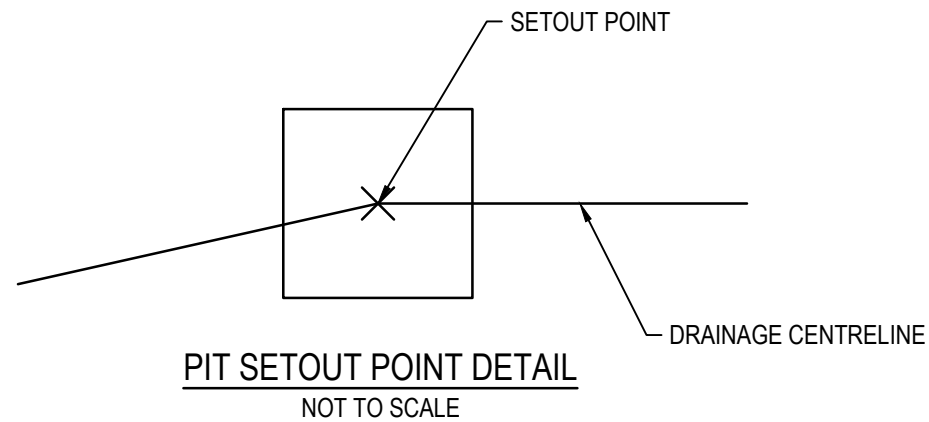


85-109 Farm Road - Stage 2B
Wyndham City Council
Road and Drainage
Cover Plan

MELWAYS REF 205 G12	PROJECT / DRAWING No. 2053E-02B-01	SHEET No. 01 of 07	REVISION 2
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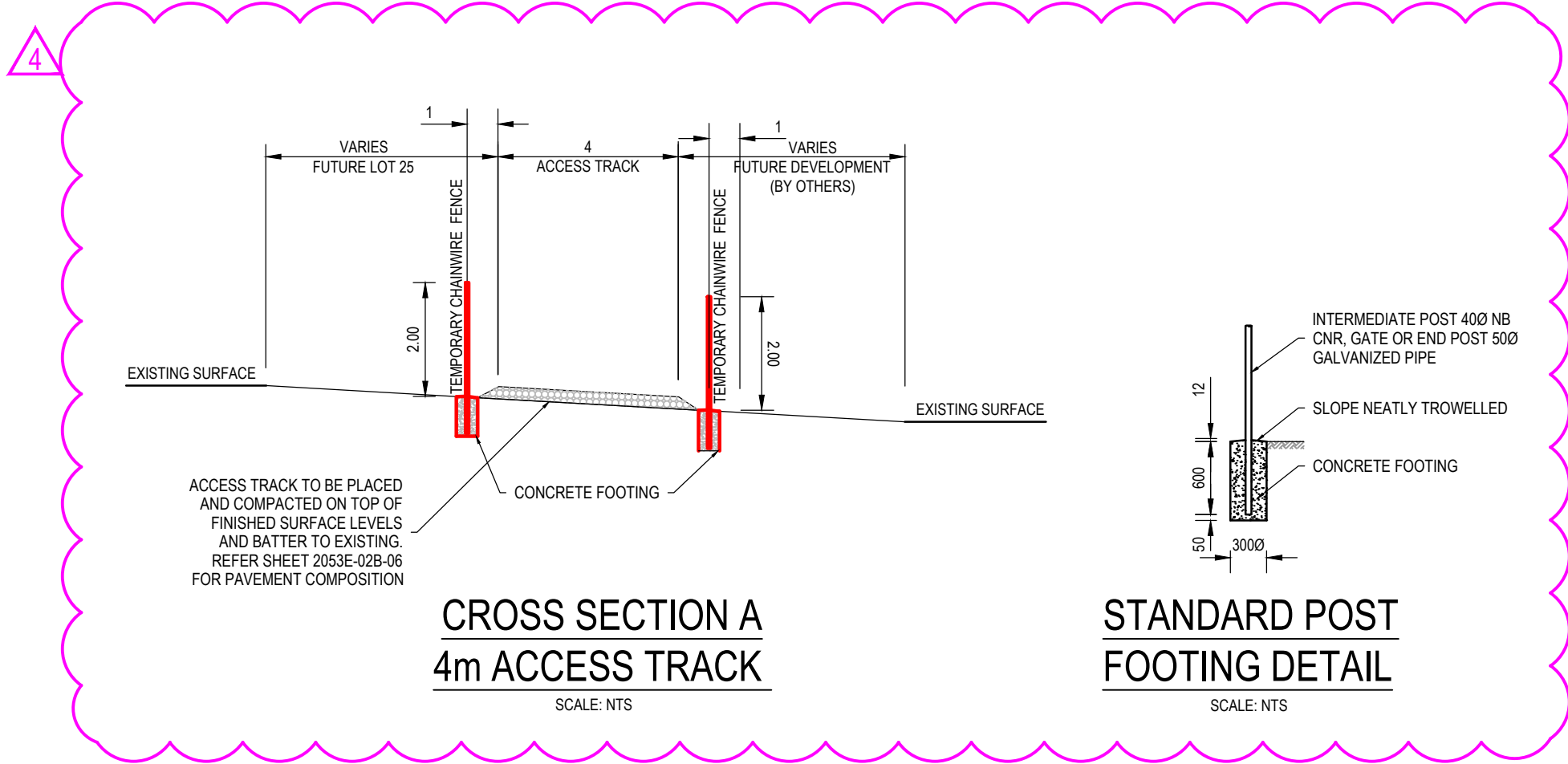
NOTE
ACCESS TO BE MANAGED FOR EXISTING LAND OWNER.
TO BE WORKED OUT BETWEEN CONTRACTOR AND OWNER.



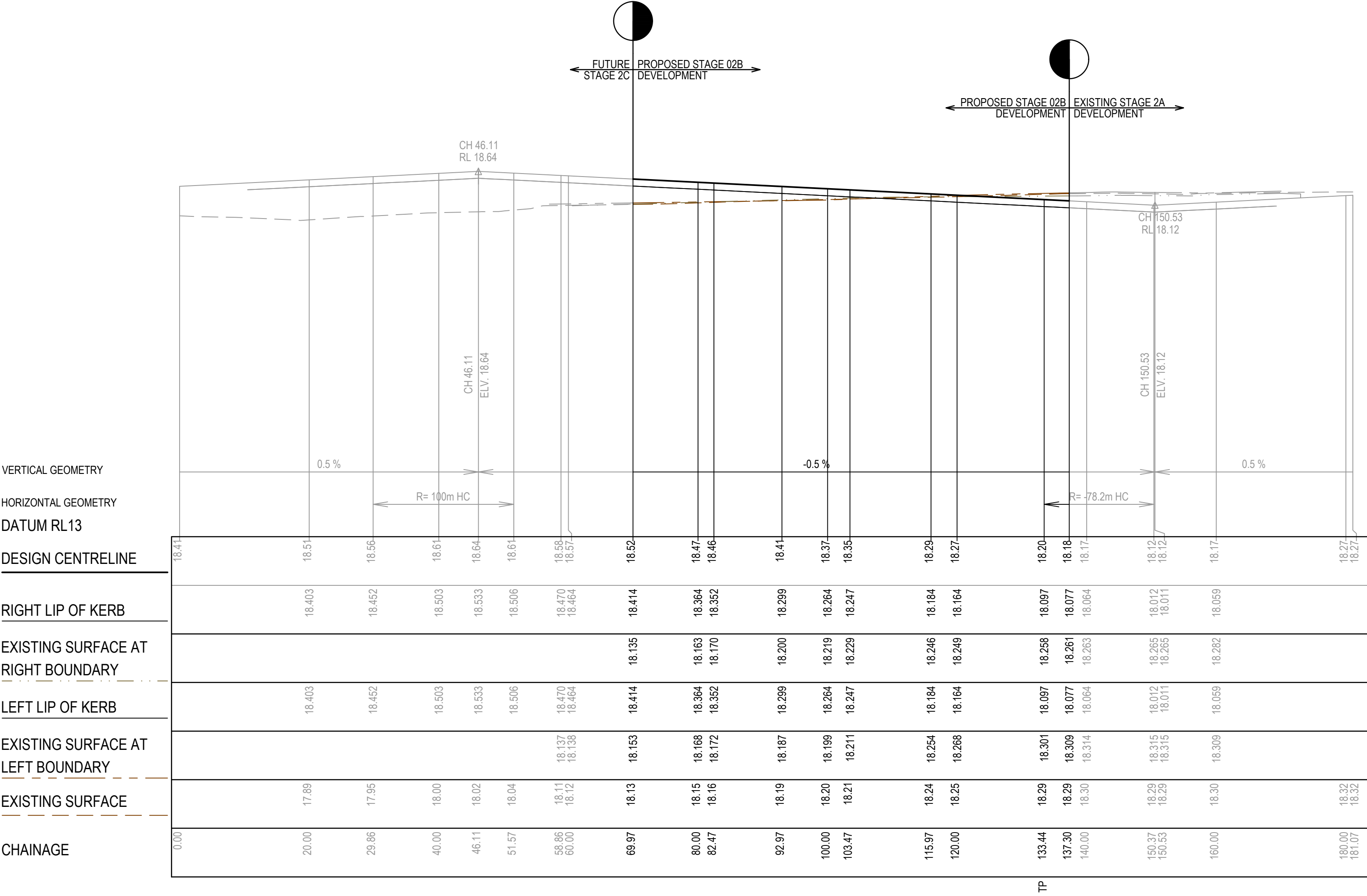
LEGEND - LAYOUT PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER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

SERVICES OFFSET TABLE					
ROAD NAME	GAS	WATER	RECYCLED WATER	ELECTRICITY	OPTIC FIBRE
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
HANLON STREET	2.10 W	3.10 W	2.60 W	2.45 E	1.85 E

ROAD LAYOUT TABLE								
ROAD NAME	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
HANLON STREET	16.00	6.40	7.30	7.60	600 B2	600 B2	4.35	4.05



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



HANLON STREET LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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TITLE	NAME
DRAFTER	H.Ehsani
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	

01020

00.51

00.1

00.2

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



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



85-109 Farm Road - Stage 2B
Wyndham City Council
Road and Drainage
Longitudinal Sections

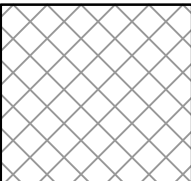

MELWAYS REF
205 G12

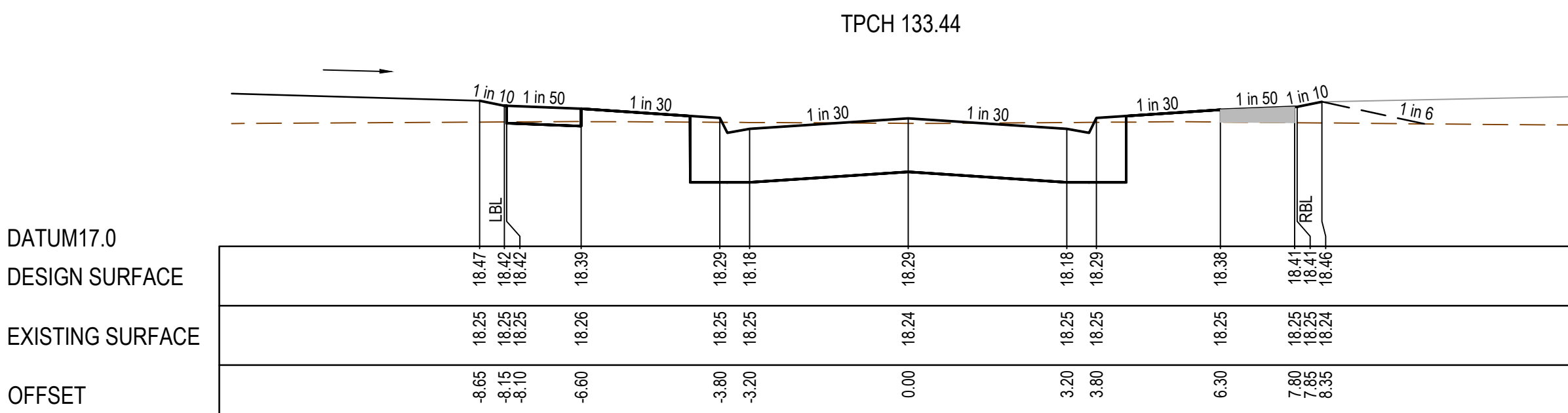
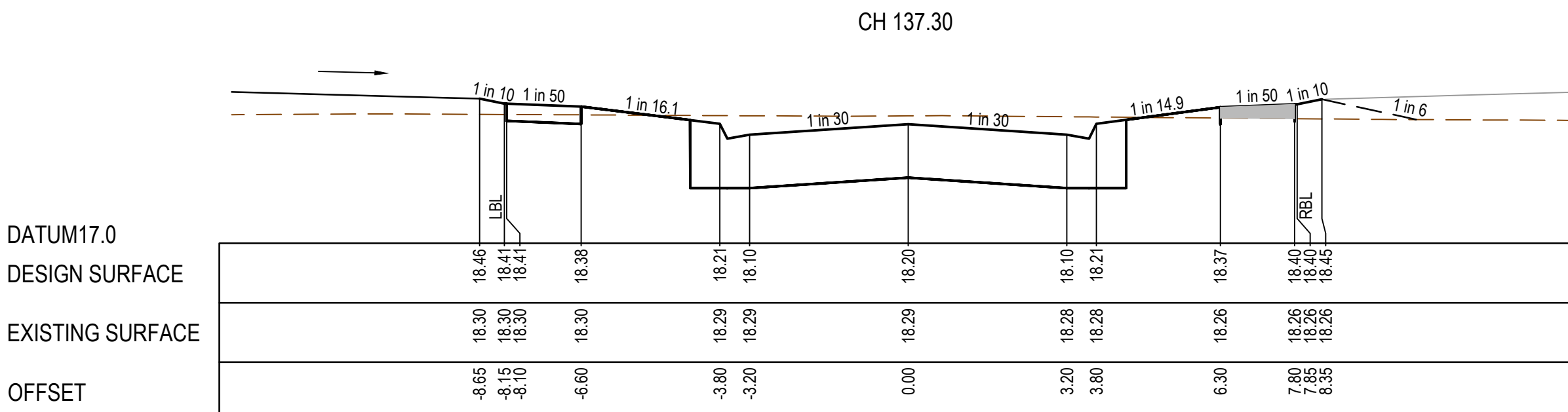
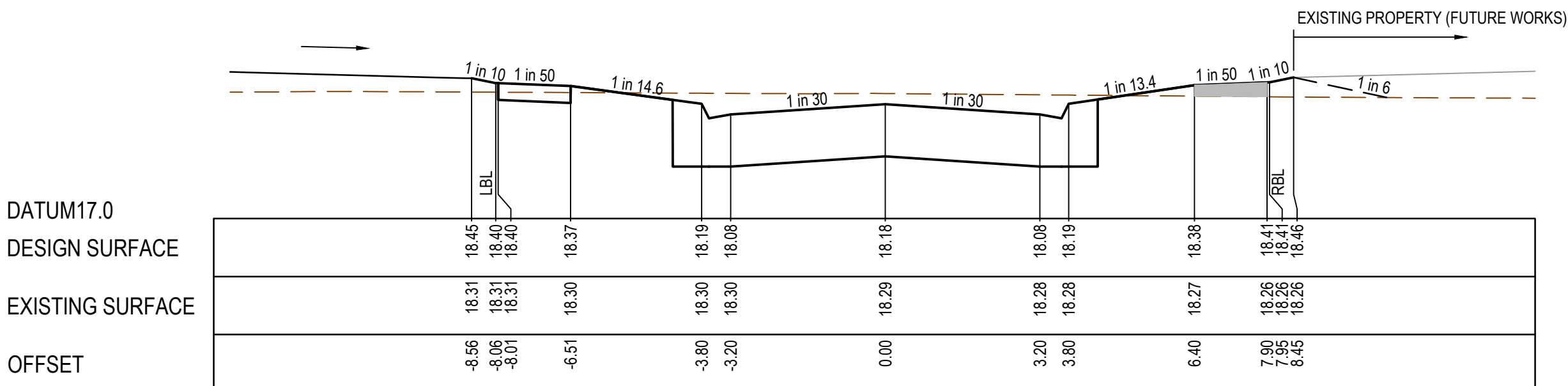
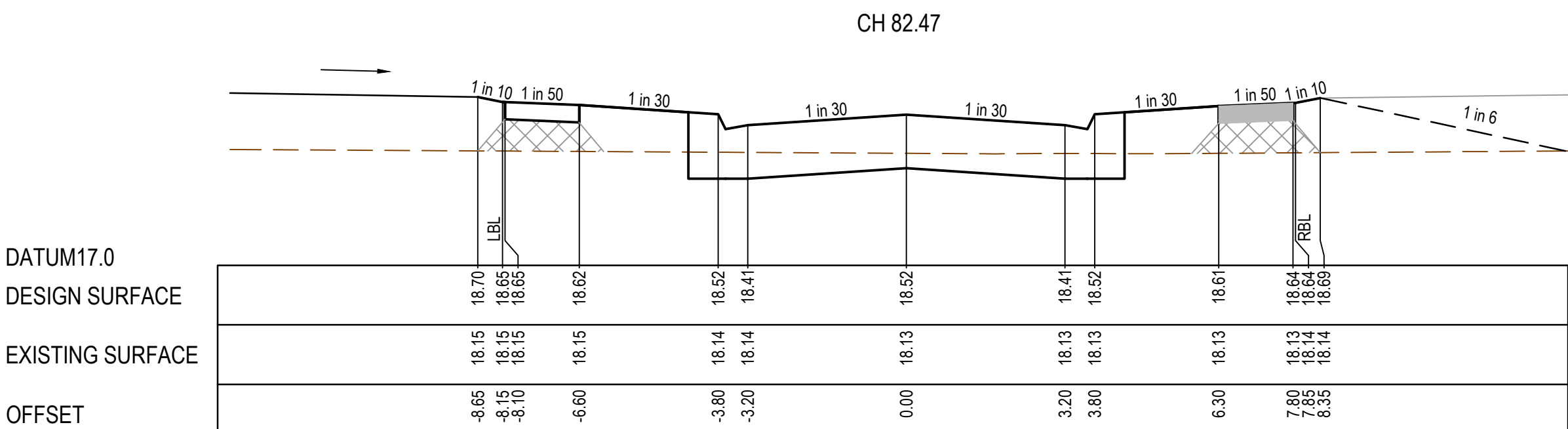
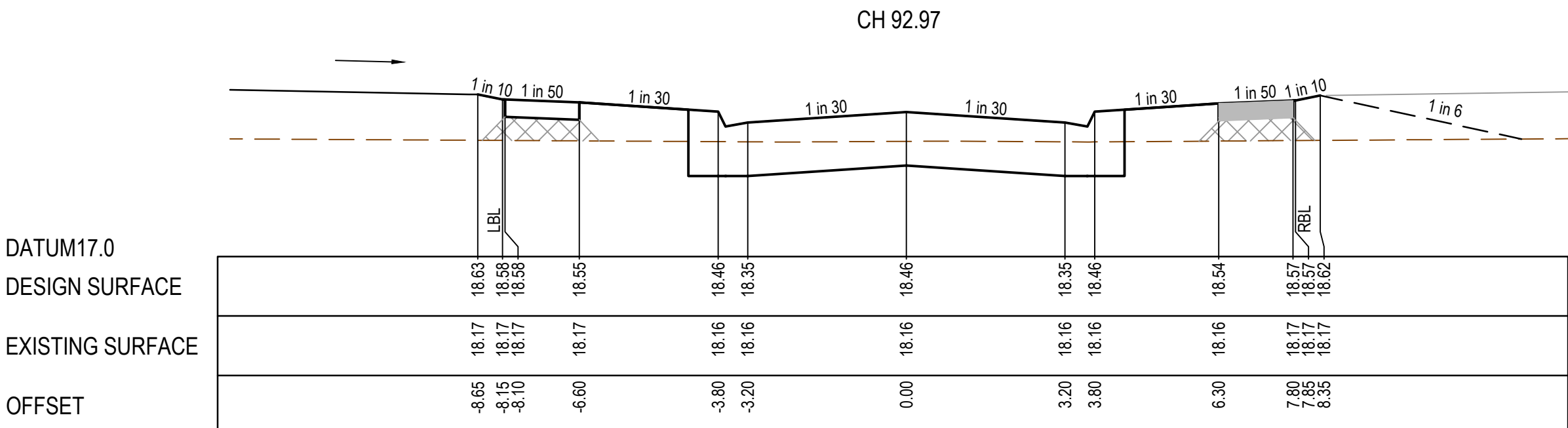
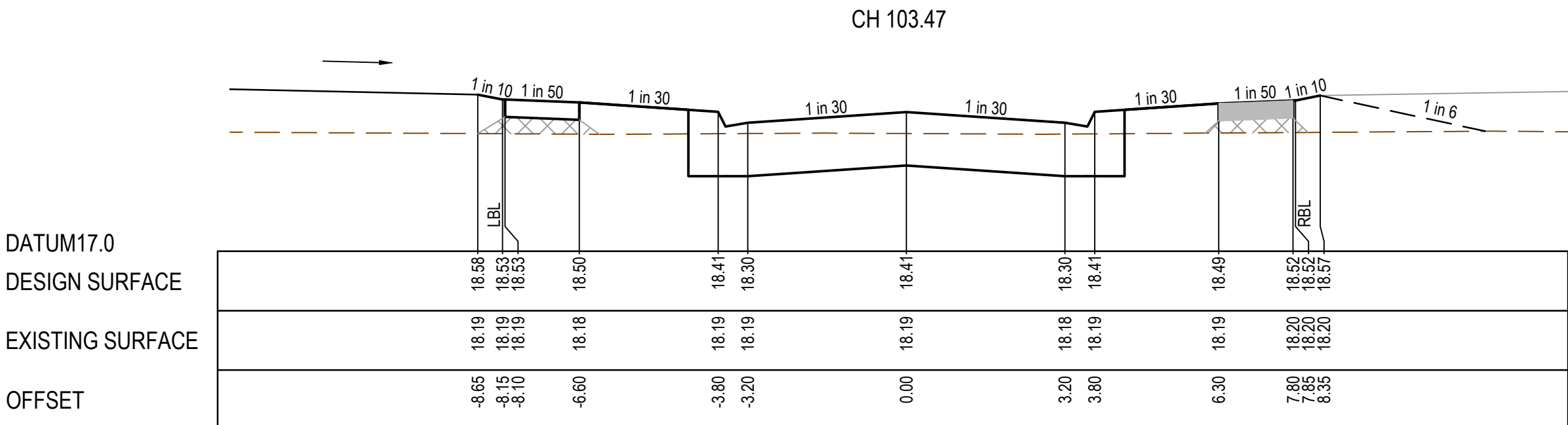
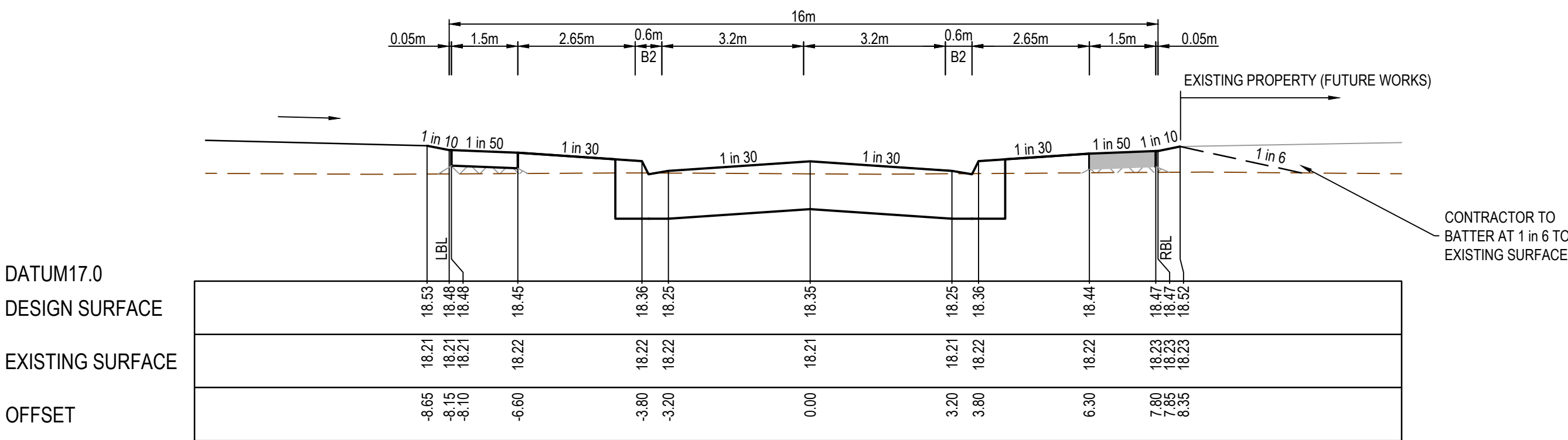
PROJECT / DRAWING No.
2053E-02B-03

SHEET No.
03 of 07

REVISION
1

DWG PATH: V:_Vault\Projects_Urban\2053E-85-109 Farm Road_Werribee\2053E-02B\Drawings\2053E-02B-03.dwg PRINTED BY: JD16049 on 15/02/2022 at 01:27:27 PM

	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH
	TOP SOIL AS PER COUNCIL SPECIFICATIONS



AS CONSTRUCTED PLANS

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Quality Management ISO 9001

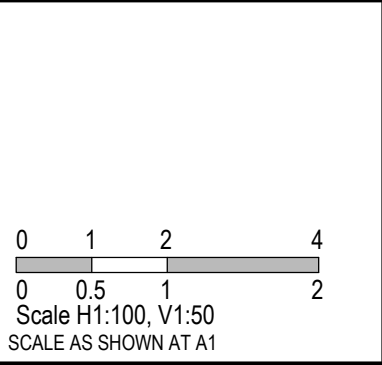


OHS Management AS/NZS 1880



Environmental Management ISO 14001

TITLE	NAME
DRAFTER	H.Ehsani
DESIGNER	N.Green
CHECKED	L.Vieyra
AUTHORISED	L.Vieyra
REFERENCE No. 1	
REFERENCE No. 2	





SMEC

Member of the Surbana Jurong Group

ABN 47 065 475 149

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

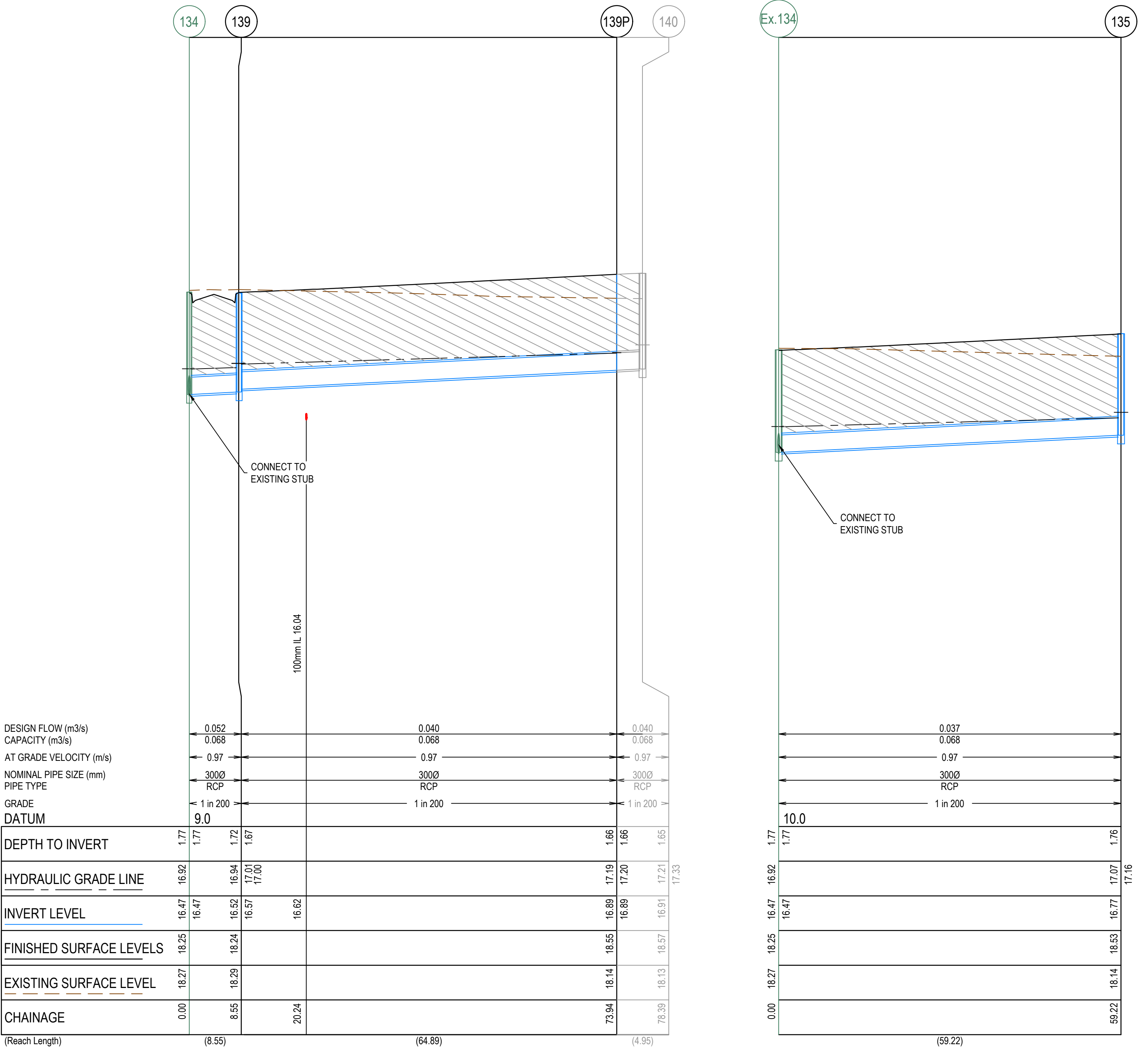


YourLand
Developments

85-109 Farm Road - Stage 2B
Wyndham City Council
Road and Drainage
Road Cross Section
From CH:69.98 to 137.29

MELWAYS REF 205 G12	PROJECT / DRAWING No. 2053E-02B-04	SHEET No. 04 of 07	REVISION 2
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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



AS CONSTRUCTED PLANS

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Quality Management - ISO 9001

Site Management - AS/NZS 1801

Environmental Management - ISO 14001

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TITLE	NAME
DRAFTER	H.Ehsani
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 1

SMEC

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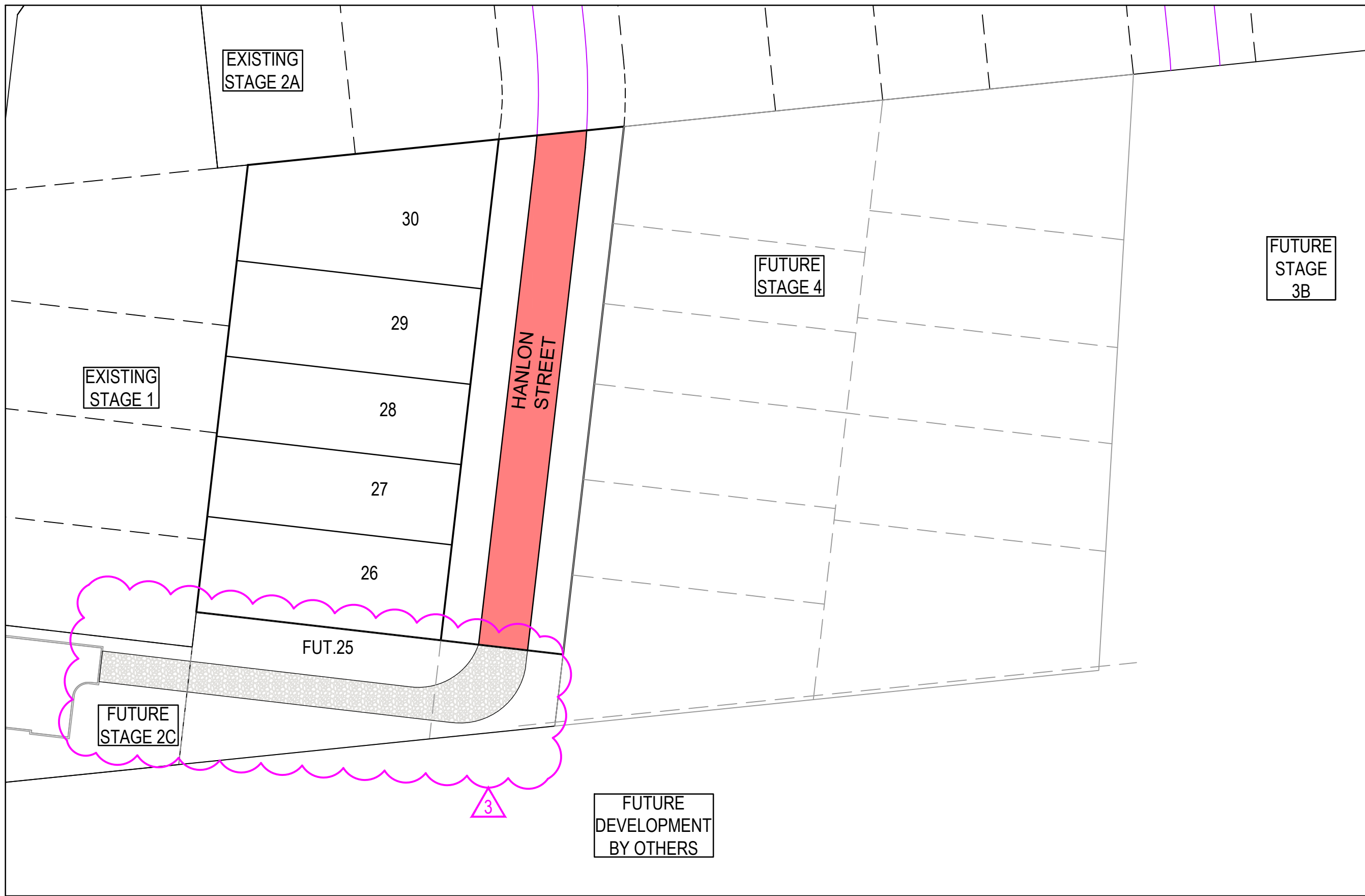
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Melbourne, VIC 3008
Ph 03 9514 1500

YourLand
Developments

85-109 Farm Road - Stage 2B
Wyndham City Council
Road and Drainage
Drainage Longitudinal Section and Pit schedule

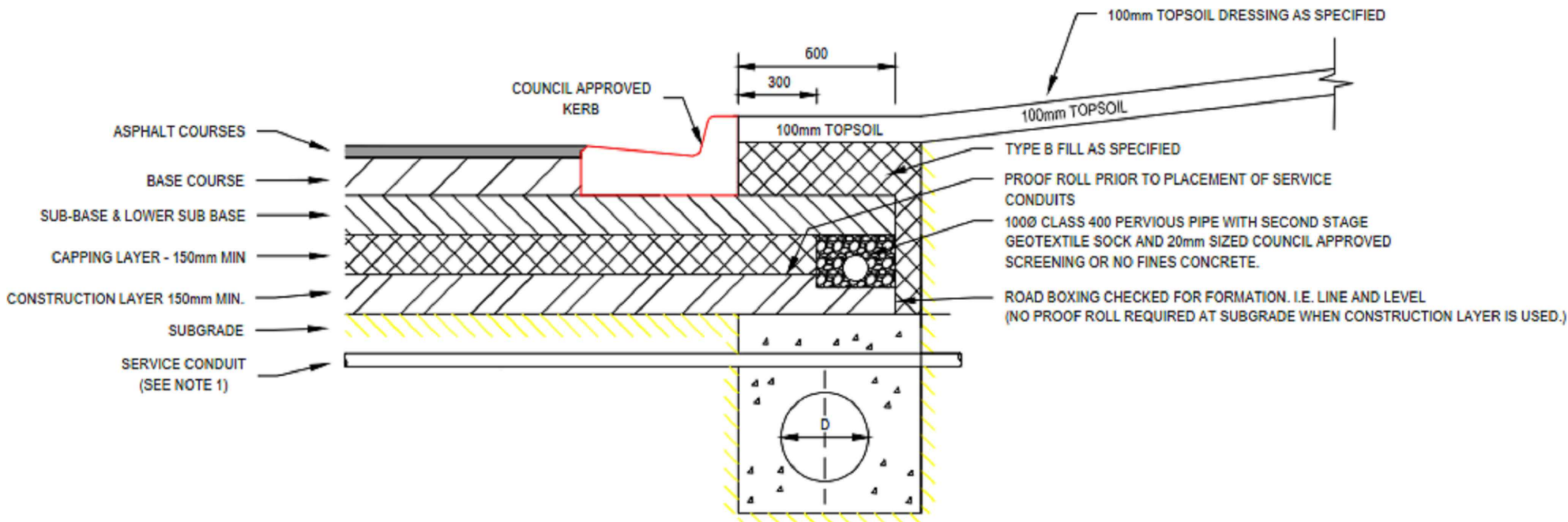
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
205 G12	2053E-02B-05	05 of 07	1



NOTE
ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY GROUND SCIENCE. SMEC IS NOT RESPONSIBLE FOR GEOTECHNICAL OR PAVEMENT RELATED DESIGNS AND IS NOT RESPONSIBLE FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THESE DESIGNS. THE PAVEMENT COMPOSITIONS SHOWN ON THIS DRAWING HAVE BEEN REPRODUCED FROM THE PAVEMENT REPORT FOR THIS DEVELOPMENT STAGE. THIS DOCUMENT SHOULD BE REVIEWED BY THE CONTRACTOR TO ENSURE DESIGN HAS BEEN INTERPRETED CORRECTLY. A COPY OF THIS DOCUMENT WILL BE MADE AVAILABLE ON REQUEST. ANY DIFFERENCES FROM THIS REQUIREMENTS SHOWN ARE TO BE NOTIFIED TO THE SUPERINTENDENT BEFORE PROCEEDING.

2,000 VPD - CASSIDY ROAD PAVEMENT COMPOSITION			
540mm DEPTH PAVEMENT COMPOSITION		LAYER	
PAVEMENT LAYER	THICKNESS (mm)	MATERIAL	
ASPHALT	WEARING COURSE	30	SIZE 10 TYPE N ASPHALT
	BASE COURSE	30	SIZE 10 TYPE N ASPHALT
	PRIME COAT	-	PRIMECOAT & 10mm SAMI
BASE COURSE	BASE	130	SIZE 20 CLASS 2 CRUSHED ROCK
SUBBASE COURSE	UPPER SUBBASE	200	SIZE 20 CLASS 3 CRUSHED ROCK
CAPPING	CAPPING LAYER	150	TYPE A FILL (CBR >= 8% SWELL <= 1.5% PERMEABILITY $k < 1 \times 10^{-9}$)
CONSTRUCTION LAYER	CONSTRUCTION LAYER	150	TYPE A FILL (CBR >= 8% SWELL <= 1.5% PERMEABILITY $k < 1 \times 10^{-9}$)



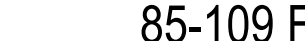

ACCESS TRACK PAVEMENT COMPOSITION			
200mm DEPTH PAVEMENT COMPOSITION		LAYER	
PAVEMENT LAYER	THICKNESS (mm)	MATERIAL	
ASPHALT	WEARING COURSE	30	SIZE 10 TYPE L ASPHALT
BASE COURSE	BASE	170	SIZE 20 CLASS 2 CRUSHED ROCK








EXPANSIVE SOIL AG DETAIL
REFER EDCM STD DWG 202A

- NOTES**
- RRPMs TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL MANUAL VOL 2.
 - ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL	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		 Member of the Surbana Jurong Group © ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500		85-109 Farm Road - Stage 2B Wyndham City Council Road and Drainage Pavement Details				
2	13.04.21	ISSUED FOR CONSTRUCTION	NG/SS	LV		DRAFTER	H.Ehsani				 Scale 1:500 SCALE AS SHOWN AT A1	MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
3	11.02.22	ISSUED TO COUNCIL FOR APPROVAL	LV/JD	LV		DESIGNER	N.Green					205 G12	2053E-02B-06	06 of 07	3
<div>ISSUED FOR CONSTRUCTION</div>															

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 ADDRESSED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED YES/NO	"Residual Risk Likelihood (0-5)"	"Residual Risk Consequence (0-5)"	"Residual Risk Rating"	RESIDUAL RISK OWNER
			Road Furniture / Roadside features											
Construction	RD	Roads	Construction close to live traffic		New works will be constructed adjacent to live traffic when abutting existing stages.	Contractor	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5.000	3.000	15.000	Constructor
Construction	US	Utilities or Services	Utilities become a hazard within clear zones	Vehicle	conflict with utility / pit	Contractor	Personal injury, vehicle damage	Sequence works and protect with temp barrier or traffic control (TCP)	TCP provided within contract	N	1.000	5.000	5.000	Constructor
Operational	RD	Roads	Sight Lines		Inadequate drivers response time.	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Vis lines checked and discussed with approval authority as part of design approval process	N	1.000	4.000	4.000	Road Authority
Operational	LS	Lines and Signs	Signs and street lights		Potential for drivers / riders to strike signs and street lights	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Refer to appropriate standard for sign and lighting offsets	N	1.000	4.000	4.000	Road Authority
			Drainage											
Operational	DR	Drainage	Grated Pits		Trip/fall hazard with large spaced grate	Relevant Authority	Increased potential for accidents	Provide pedestrian/bicycle friendly grates where applicable. Refer to pit schedule	Design in accordance with authority and manufacturers standards	N	3.00	2.00	6.00	Authority
Maintenance	DR	Drainage	Access to Pits		Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Provide safe landing/ access arrangements as per relevant authority standards	Where possible design pit in location for easy access and outside of permanent water bodies	N	2.00	5.00	10.00	Authority
Maintenance	DR	Drainage	Access to drains / culverts		Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Access as approved by authority	Design pit in location for easy access as agreed with authority	N	2.00	3.00	6.00	
			Sewer											
Construction	SE	Sewer	Sewer Manhole located adjacent to Retaining Wall Alignment		Falling from height during construction or commissioning of adjacent sewer manholes	Contractor	Falling from a height	Provide temporary fencing until such time that permanent fencing is constructed	Provide fencing (at heights) during design process	N	1.00	1.00	1.00	Constructor
Maintenance	SE	Sewer	Access to Manholes		Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Manholes located in compliance with authority standards	Where possible design manhole in location for easy access	N	1.00	5.00	5.00	Authority
Maintenance	SE	Sewer	Pump Station Access		Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance	Design pump station in location for easy access	N	2.00	4.00	8.00	Authority
			Electricity											
Operational	ES	Electrical Services	Electrical Design		Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Electrical designed by sub consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2.00	3.00	6.00	Authority
			Telstra											
Operational	TE	Telstra	Telstra Design		Location of assets within clear zones e.g.. pits	Relevant Authority	Increased potential for accidents	Telecommunications designed by authority consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2.00	3.00	6.00	Authority
			Water											
Operational	WA	Water	Water Design		Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2.00	3.00	6.00	Authority
			Gas											
Operational	GA	Gas	Gas Design		Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	1.00	1.00	1.00	Authority

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL	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	SCALE AS SHOWN AT A1	<div>SMEC Member of the Surlana Jurong Group ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500</div>	<div></div>	85-109 Farm Road - Stage 2B Wyndham City Council Road and Drainage Safety In Design				
0	13.04.21	ISSUED FOR CONSTRUCTION	NG/JD	LV		DRAFTER	H.Ehsani								
						DESIGNER	N.Green								
						CHECKED	L.Vieyra								
<div>ISSUED FOR CONSTRUCTION</div>					<div></div>	REFERENCE No. 1		REFERENCE No. 2				MELWAYS REF 205 G12	PROJECT / DRAWING No. 2053E-02B-85	SHEET No. 07 of 07	REVISION 0
						REFERENCE No. 2									