

hillstowe

by AVID Property Group

CIVIL WORKS

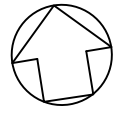
CARDINIA SHIRE COUNCIL

415 PRINCES HIGHWAY, OFFICER VIC 3809

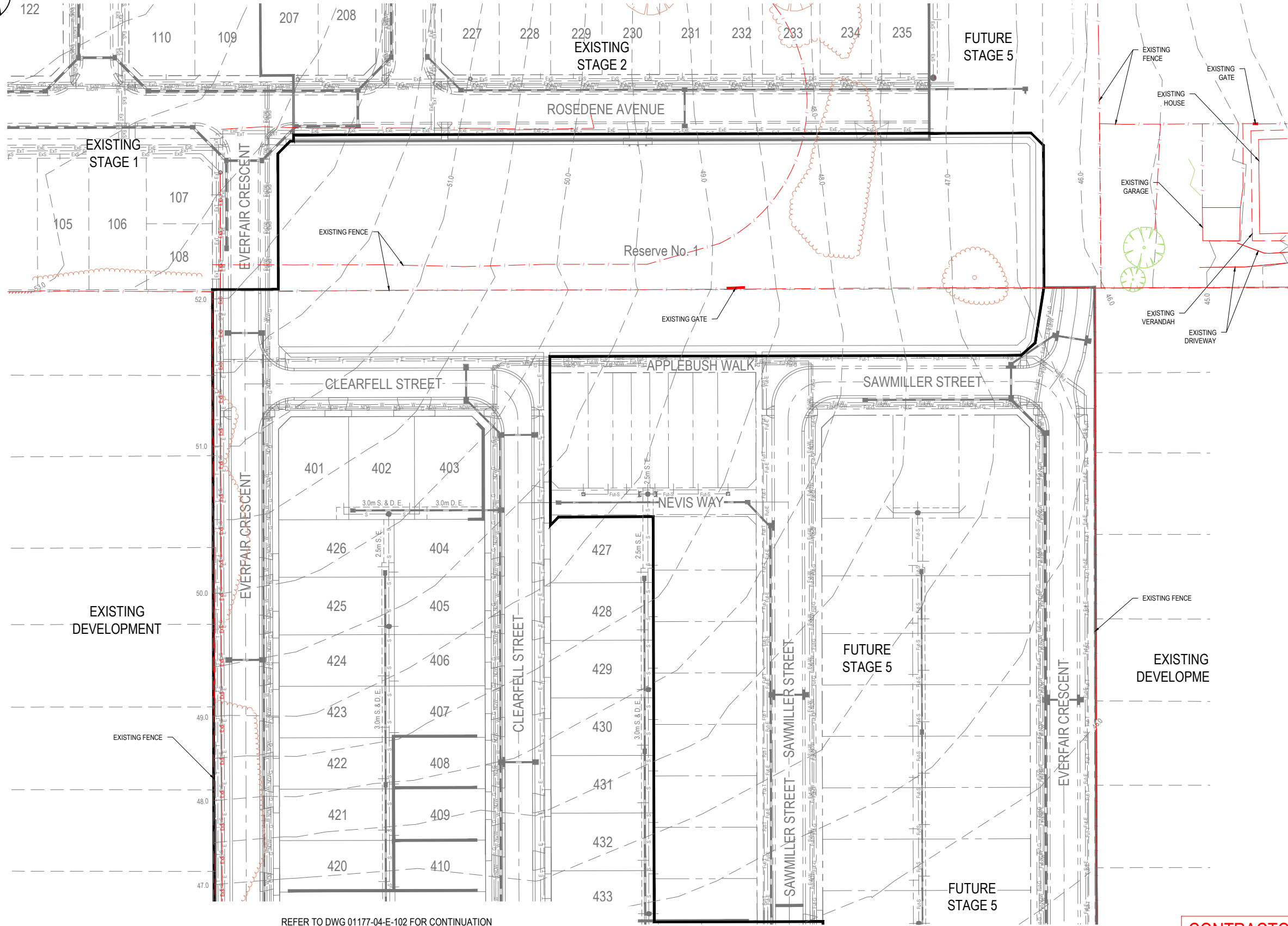
HILLSTOWE ESTATE, STAGE 4

TAYLORS

Urban Development | Infrastructure
8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2800 | Web: taylorstds.com.au

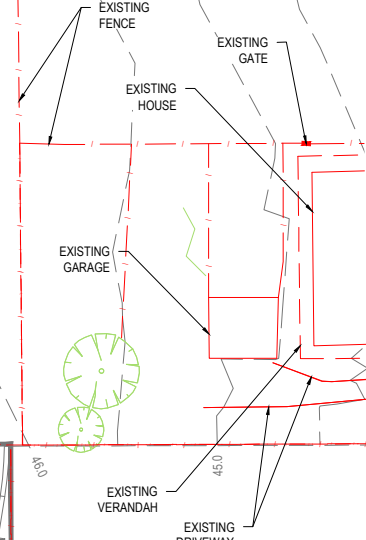


122



NOTES:

1. ALL EXISTING SERVICES UNDER NEW PAVEMENTS, PATHS AND VEHICLE CROSSINGS TO BE BACKFILLED WITH FCR.
2. ALL EXISTING PITS AND MANHOLES WITHIN NEW WORKS TO BE ADJUSTED TO NEATLY MATCH NEW FINISHED SURFACE.
3. ALL EXISTING SEWER PROPERTY BRANCHES AND HOUSE DRAINS DAMAGED BY WORKS TO BE REPLACED BY CONTRACTOR.
4. ALL EXISTING OPEN DRAINS TO BE DRAINED, DESLUGGED AND BACKFILLED TO LEVEL 1 REQUIREMENTS.



EXISTING DEVELOPMENT

EXISTING DEVELOPMENT

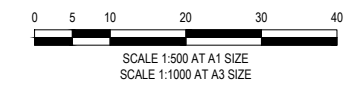
REFER TO DWG 01177-04-E-102 FOR CONTINUATION



WARNING
BWARE OF UNDERGROUND SERVICES
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CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST
VER	DATE	REVISION	APPD.

EXISTING SEWER MAIN & M.H.	EsS	PROPOSED GAS MAIN	G	TREE TO BE RETAINED	
EXISTING FENCE	f	PROPOSED WATER MAIN	W	TREE TO BE REMOVED	
EXISTING GATE	g	PROPOSED NON-DRINKING WATER	NW		
		PROPOSED ELECTRICITY CABLE	E		
		PROPOSED TELCO CABLE	T		
		PROPOSED SEWER MAIN & M.H.	S		
		PROPOSED DRAIN, PIT & PROPERTY INLET	D		

LEGEND

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DESIGNED:	LOD	AUTHORISED:	JOY	DRAFTED:	WGO
CHECKED:	MIO	AUTH. DATE:	18/09/2020	CAD REF.:	01177-04-E-101-103

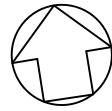
Coords: MGA Levels: AHD

CARDINIA SHIRE COUNCIL

415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

EXISTING FEATURES PLAN
SHEET 1 OF 3

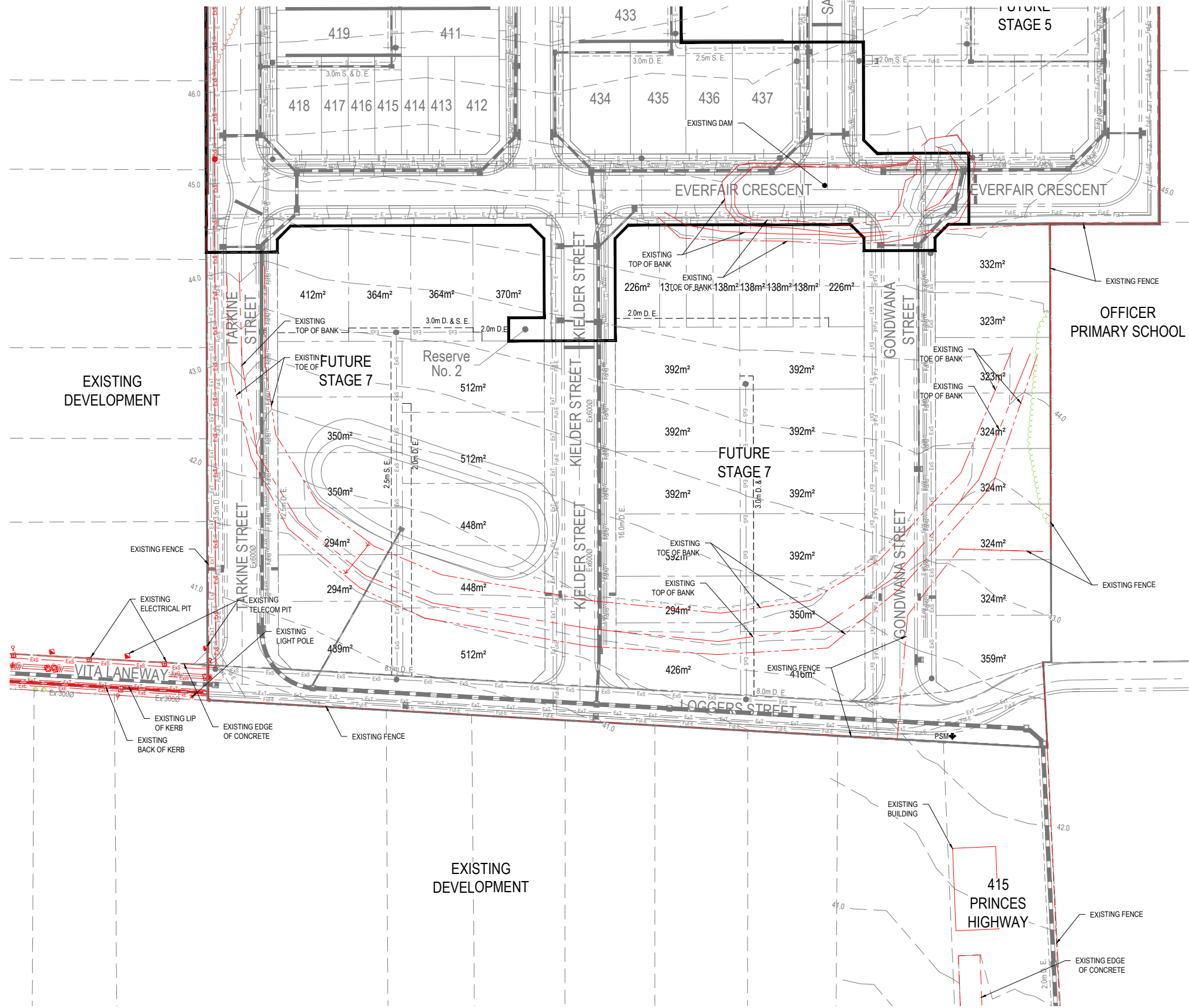
SCALE	1:500 @ A1
VERSION	0
SHEET	2 OF 47
DRAWING No.	01177-04-E-101



REFER TO DWG 01177-04-E-101 FOR CONTINUATION

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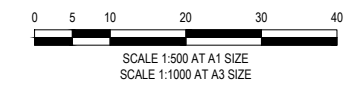
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EXISTING SEWER MAIN & M.H.	—●—●—●—	PROPOSED GAS MAIN	—G—G—G—	EXISTING TOP OF BANK	—●—●—●—
EXISTING FENCE	—f—f—f—	PROPOSED WATER MAIN	—W—W—W—	EXISTING TOE OF BANK	—○—○—○—
EXISTING GATE	—g—g—g—	PROPOSED NON-DRINKING WATER	—NDW—	EXISTING EASEMENT	—e—e—e—
		PROPOSED ELECTRICITY CABLE	—E—E—E—	EXISTING DRAIN INVERT	—i—i—i—
		PROPOSED TELCO CABLE	—T—T—T—		
		PROPOSED SEWER MAIN & M.H.	—S—S—S—		
		PROPOSED DRAIN, PIT & PROPERTY INLET	—D—D—D—		

LEGEND

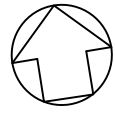


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 CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-101-103

CARDINA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
 EXISTING FEATURES PLAN
 SHEET 2 OF 3

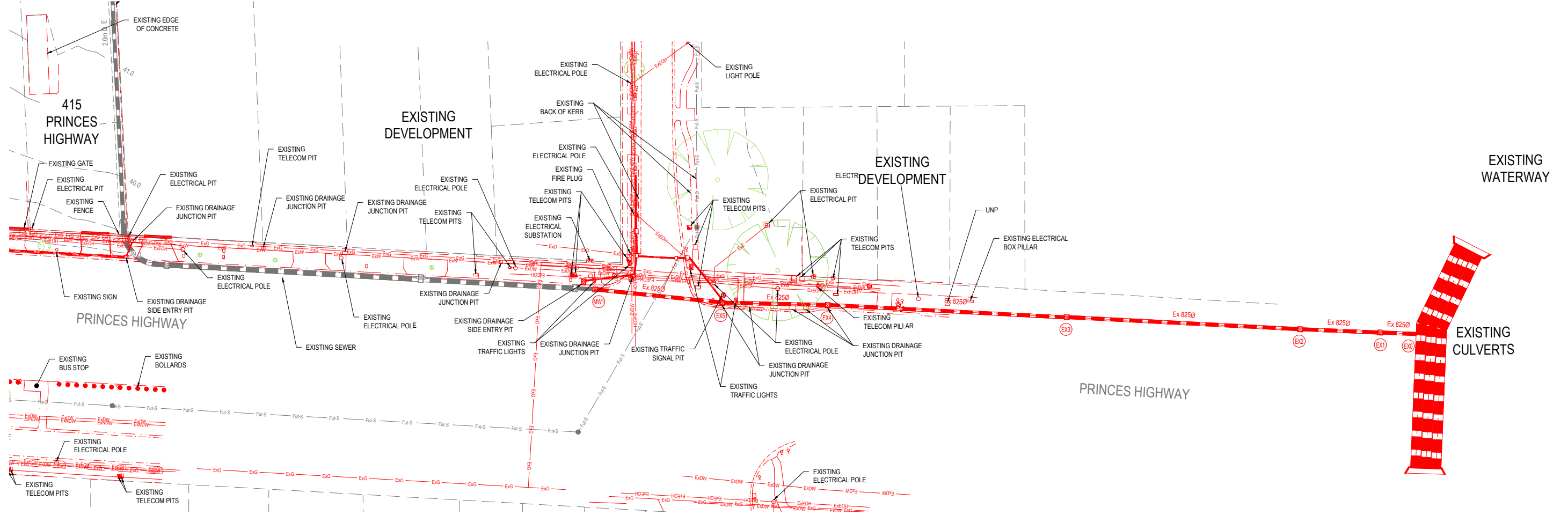
SCALE	1:500 @ A1
VERSION	0
SHEET	3 OF 47
DRAWING No.	01177-04-E-102



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EXISTING WATERWAY

EXISTING CULVERTS



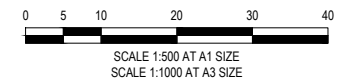
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EXISTING GAS MAIN	ExG	TREE TO BE RETAINED		EXISTING TOP OF BANK	---
EXISTING WATER MAIN	ExW	TREE TO BE REMOVED		EXISTING TOE OF BANK	---
EXISTING TELECO CABLE	ExE	EXISTING FENCE	---	EXISTING DRAIN INVERT	---
EXISTING TELECO CABLE & PIT	ExE	EXISTING EDGE OF BITUMEN	---	EXISTING GATE	---
EXISTING SEWER MAIN & M.H.	ExS	EXISTING EDGE OF FORMATION	---	EXISTING SIGN	---
EXISTING DRAIN	ExD	EXISTING BACK OF KERB	---	PROPOSED DRAIN & PIT	---
EXISTING OVERHEAD CABLE	ExOCH	EXISTING LIP OF KERB	---		

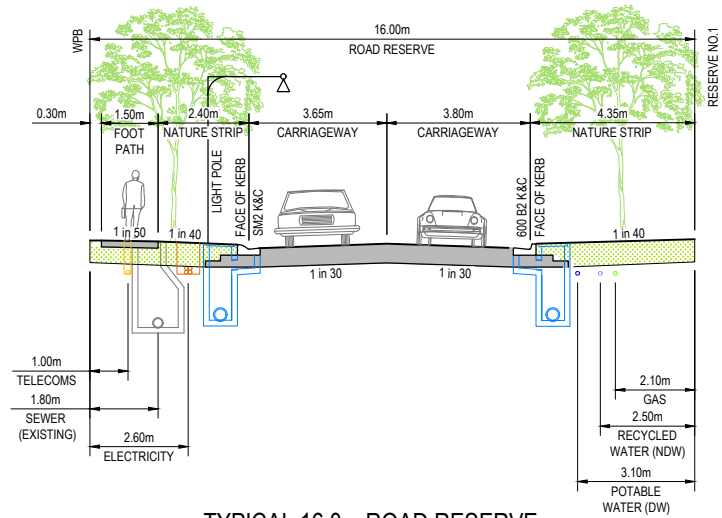


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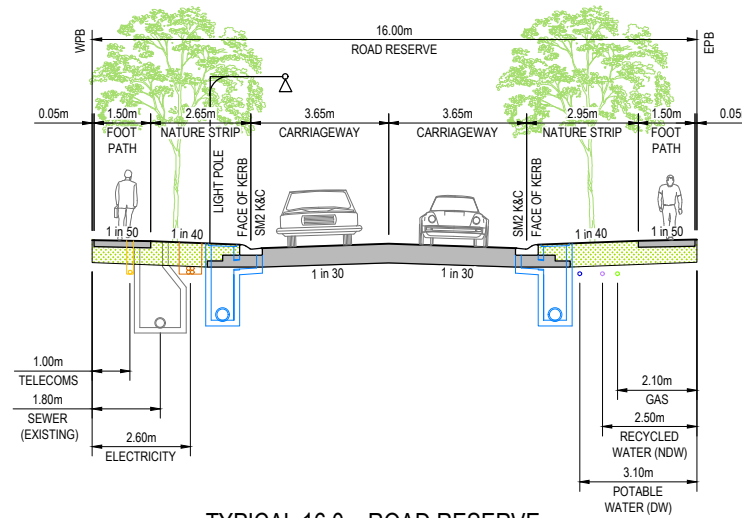
CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4
 EXISTING FEATURES PLAN
 SHEET 3 OF 3

SCALE	1:500 @ A1
VERSION	0
SHEET	4 OF 47
DRAWING No.	01177-04-E-103

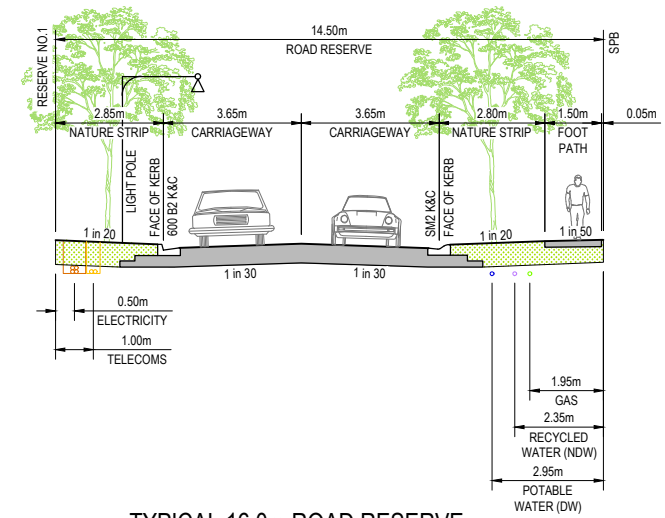
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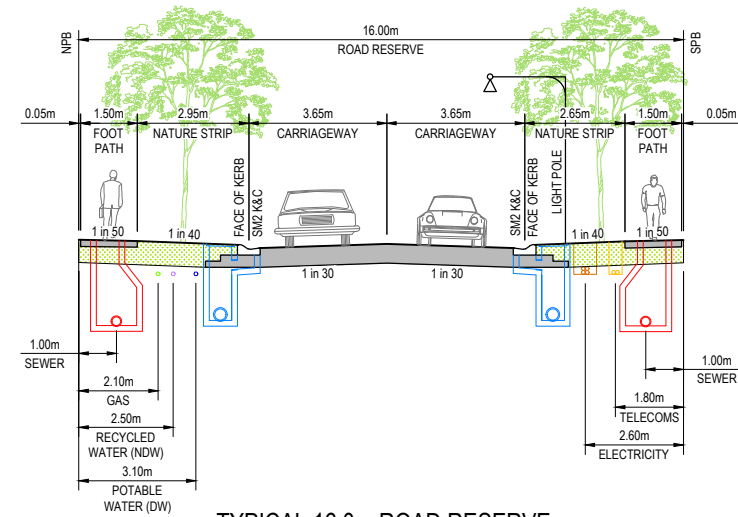
TYPICAL 16.0m ROAD RESERVE
EVERFAIR CRESENT (ADJ RESERVE NO.1)
SCALE 1:100 @ A1



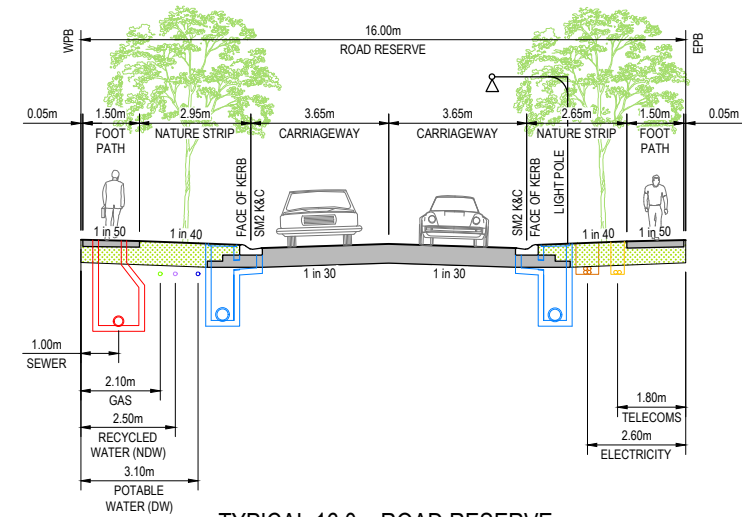
TYPICAL 16.0m ROAD RESERVE
EVERFAIR CRESENT (LOTS 418-426 & 401) /
TARKINE STREET
SCALE 1:100 @ A1



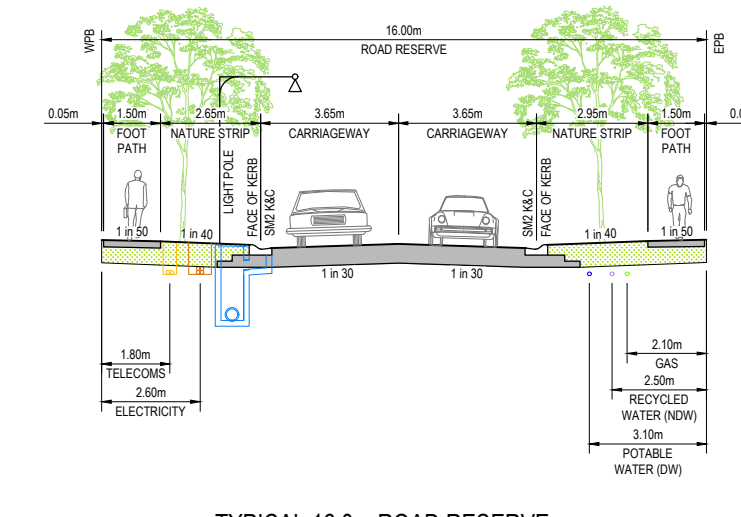
TYPICAL 16.0m ROAD RESERVE
CLEARFELL STREET (LOTS 401-403)
SCALE 1:100 @ A1



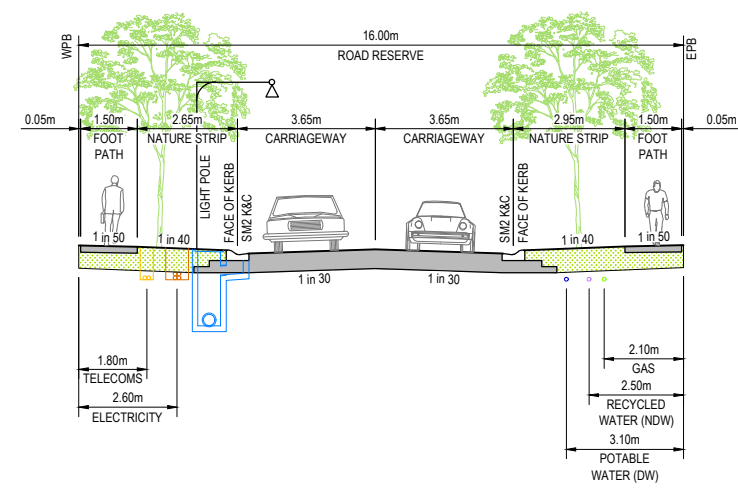
TYPICAL 16.0m ROAD RESERVE
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SCALE 1:100 @ A1



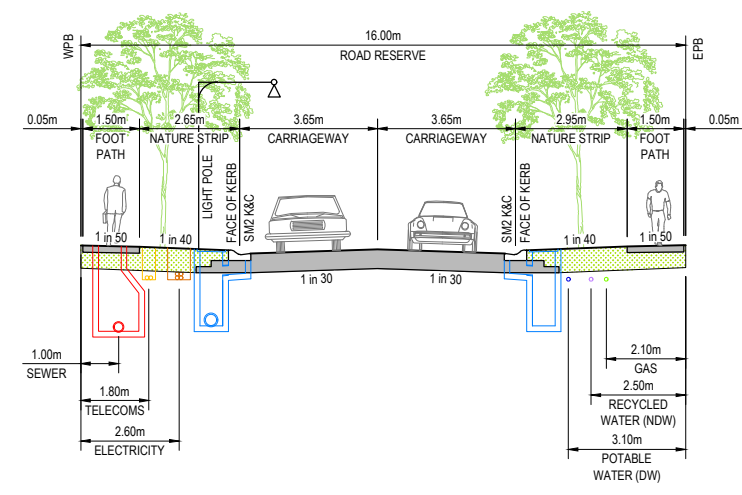
TYPICAL 16.0m ROAD RESERVE
CLEARFELL STREET (LOTS 403-412)
SCALE 1:100 @ A1



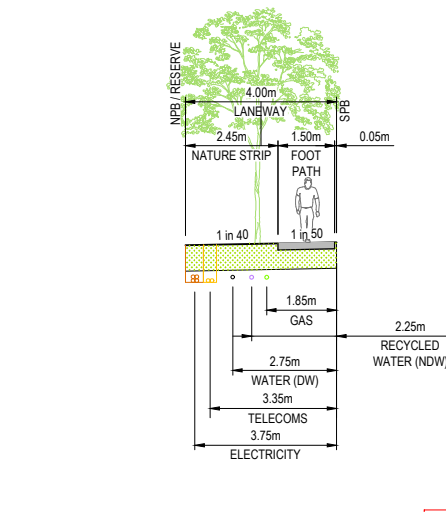
TYPICAL 16.0m ROAD RESERVE
KIELDER STREET
SCALE 1:100 @ A1



TYPICAL 16.0m ROAD RESERVE
GONDWANA STREET
SCALE 1:100 @ A1

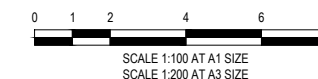


TYPICAL 16.0m ROAD RESERVE
SAWMILLER STREET
SCALE 1:100 @ A1



TYPICAL 4.0m LANEWAY
APPLEBUSH WALK
SCALE 1:100 @ A1

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CHECKED:	MIO	AUTH. DATE:	18/09/2020	CAD REF.:	01177-04-E-104

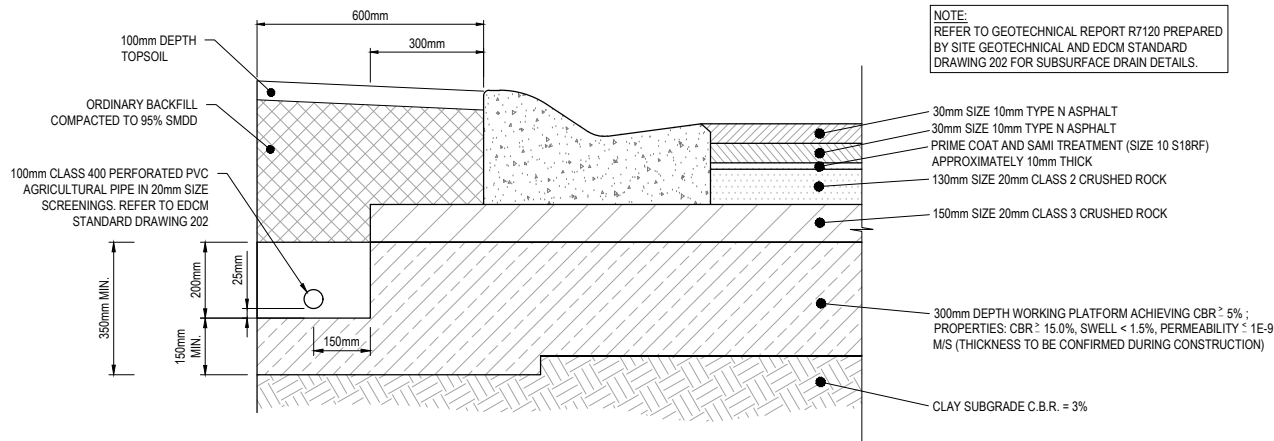
CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

TYPICAL SECTIONS

SCALE 1:100 @ A1

VERSION 0
SHEET 5 OF 47
DRAWING No.

01177-04-E-104



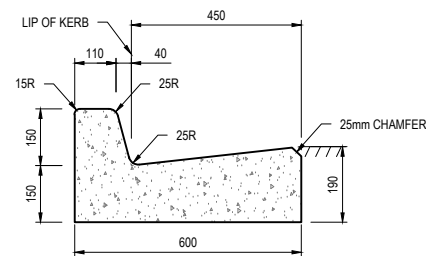
ACCESS STREET LEVEL 1 - OVER EXPANSIVE SUBGRADE

EVERFAIR CRESCENT, CLEARFELL STREET, KIELDER STREET, SAWMILLER STREET, GONDWANA STREET, TARKINE STREET, DEERLODGE STREET - 650mm PAVEMENT COMPOSITION DETAIL

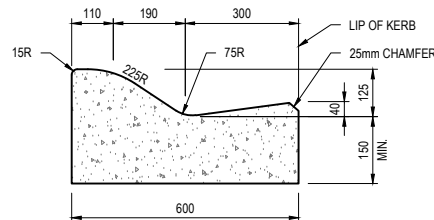
N.T.S.

PAVEMENT DETAIL NOTE:

1. THE PAVEMENT DESIGNS SHOWN HAVE BEEN DESIGNED & PROVIDED BY SITE GEOTECHNICAL WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT.
2. TAYLORS IS NOT RESPONSIBLE FOR THE WORK OF SITE GEOTECHNICAL.
3. ALL PAVEMENT DESIGNS ARE EXTRACTS FROM THE SITE GEOTECHNICAL REPORT "PRELIMINARY GEOTECHNICAL INVESTIGATION & PAVEMENT DESIGN & PRELIMINARY SOIL CLASSIFICATION REPORT FOR SLABS AND FOOTING CONSTRUCTION".
4. THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.
5. TAYLORS DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND/OR PAVEMENT DESIGNS.
6. ANY QUERIES SHOULD BE ADDRESSED TO SITE GEOTECHNICAL AND SENT TO TAYLORS.

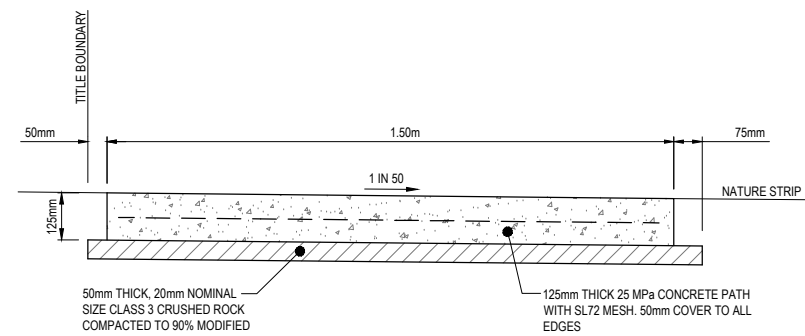


600 B2 KERB DETAIL
SCALE 1:10 @ A1



SM2 KERB DETAIL
SCALE 1:10 @ A1

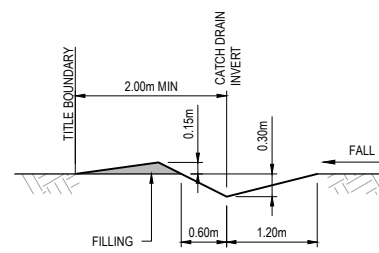
NOTE:
REFER TO GEOTECHNICAL REPORT R7120 PREPARED BY SITE GEOTECHNICAL AND EDM STANDARD DRAWING 202 FOR SUBSURFACE DRAIN DETAILS.



TYPICAL RESIDENTIAL FOOTPATH DETAIL

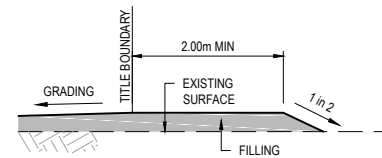
SCALE 1:10 @ A1
(REFER TO EDM STANDARD DWG 401)

FOOTPATH DETAIL NOTE:
FOOTPATH CONSTRUCTED IN FILL SHALL BE USING STRUCTURAL FILL MATERIAL TO BE APPROVED TYPE "A" MATERIAL AS PER VICROADS SERIES 200 DOCUMENT TABLE 204.04. SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED THROUGHOUT TO A DRY DENSITY OF NOT LESS THAN 98% STANDARD COMPACTION



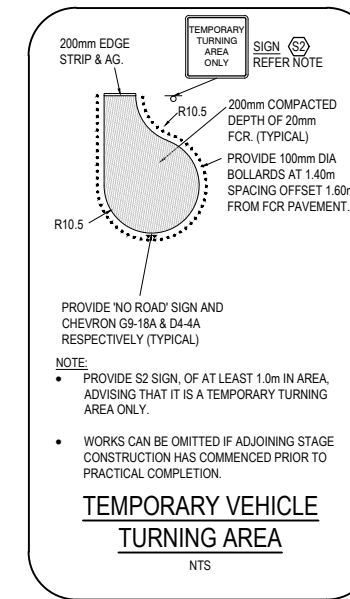
TYPICAL CATCH DRAIN SECTION

SCALE 1:50 @ A1



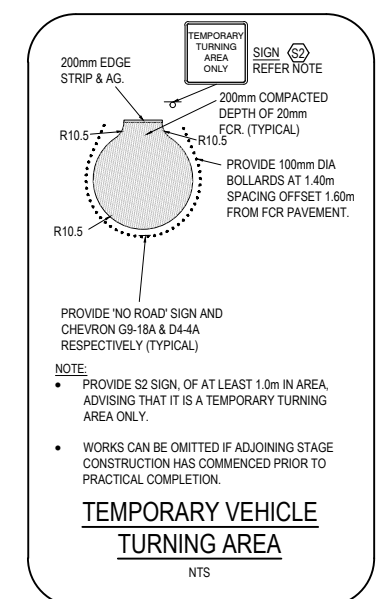
STAGE BOUNDARY LOT FILLING

SCALE 1:50 @ A1



TEMPORARY VEHICLE TURNING AREA

NTS



TEMPORARY VEHICLE TURNING AREA

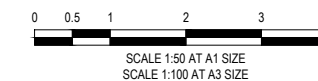
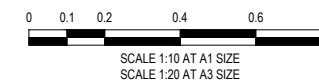
NTS



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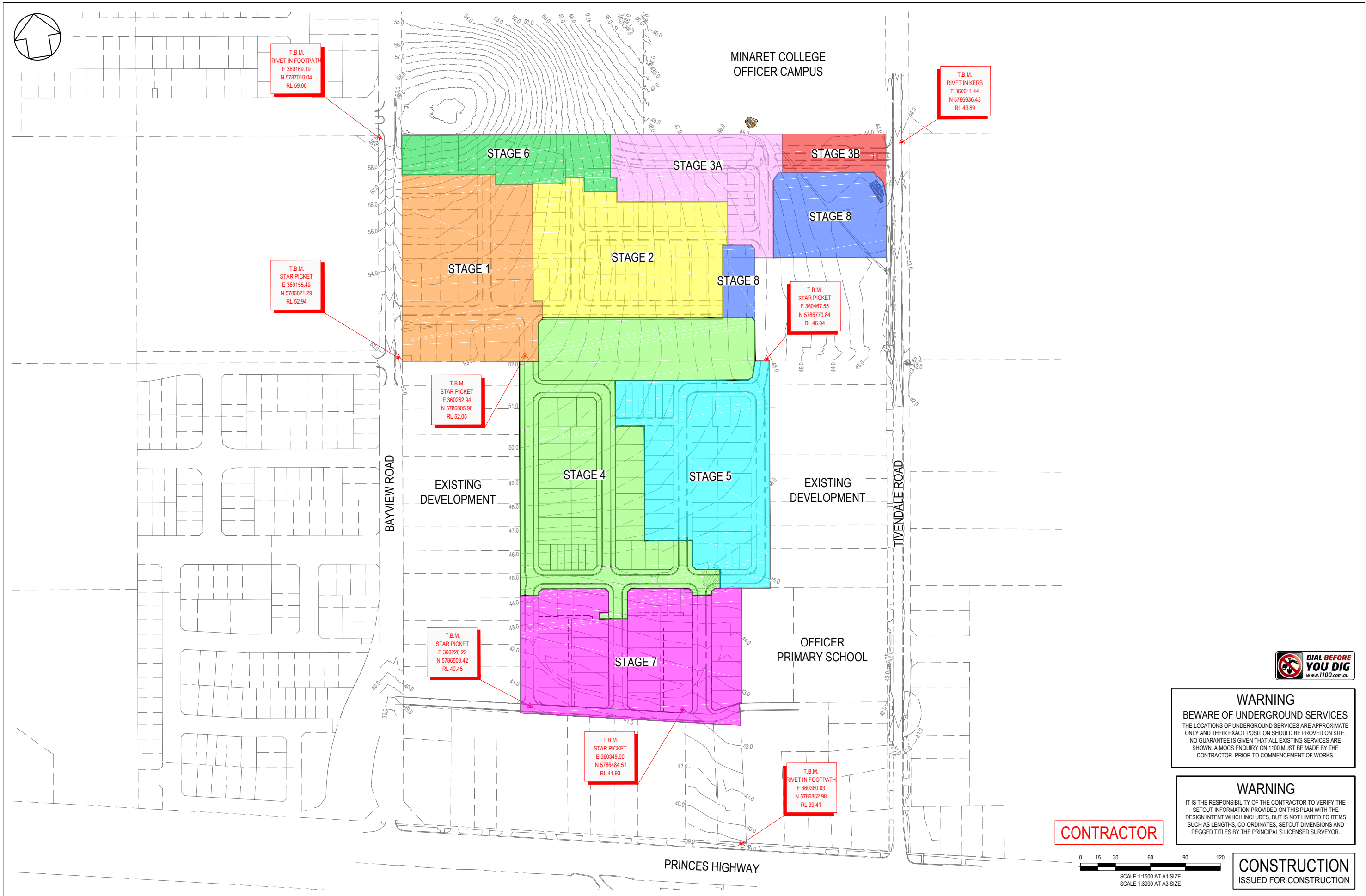
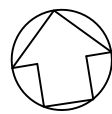
SCALE AS SHOWN @ A1

VERSION 0
SHEET 6 OF 47
DRAWING No.

DESIGNED: LOD	AUTHORISED: JOY	DRAFTED: WGO
CHECKED: MIO	AUTH. DATE: 18/09/2020	CAD REF: 01177-04-E-105

TYPICAL DETAILS

01177-04-E-105



T.B.M.
RIVET IN FOOTPATH
E 360169.19
N 5787010.04
RL 59.00

T.B.M.
RIVET IN KERB
E 360611.44
N 5786936.43
RL 43.89

T.B.M.
STAR PICKET
E 360155.49
N 5786821.29
RL 52.94

T.B.M.
STAR PICKET
E 360467.55
N 5786770.84
RL 46.04

T.B.M.
STAR PICKET
E 360262.94
N 5786805.96
RL 52.05

T.B.M.
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T.B.M.
STAR PICKET
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RL 41.93

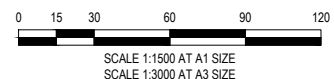
T.B.M.
RIVET IN FOOTPATH
E 360380.83
N 5786362.98
RL 39.41



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CHECKED:	MIO	AUTH. DATE:	18/09/2020	CAD REF.:	01177-04-E-106

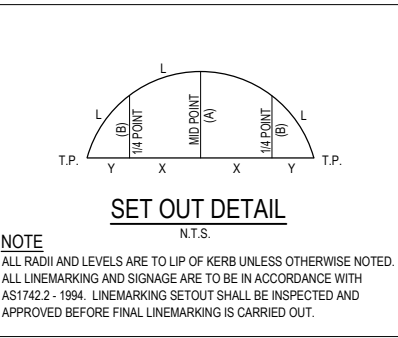
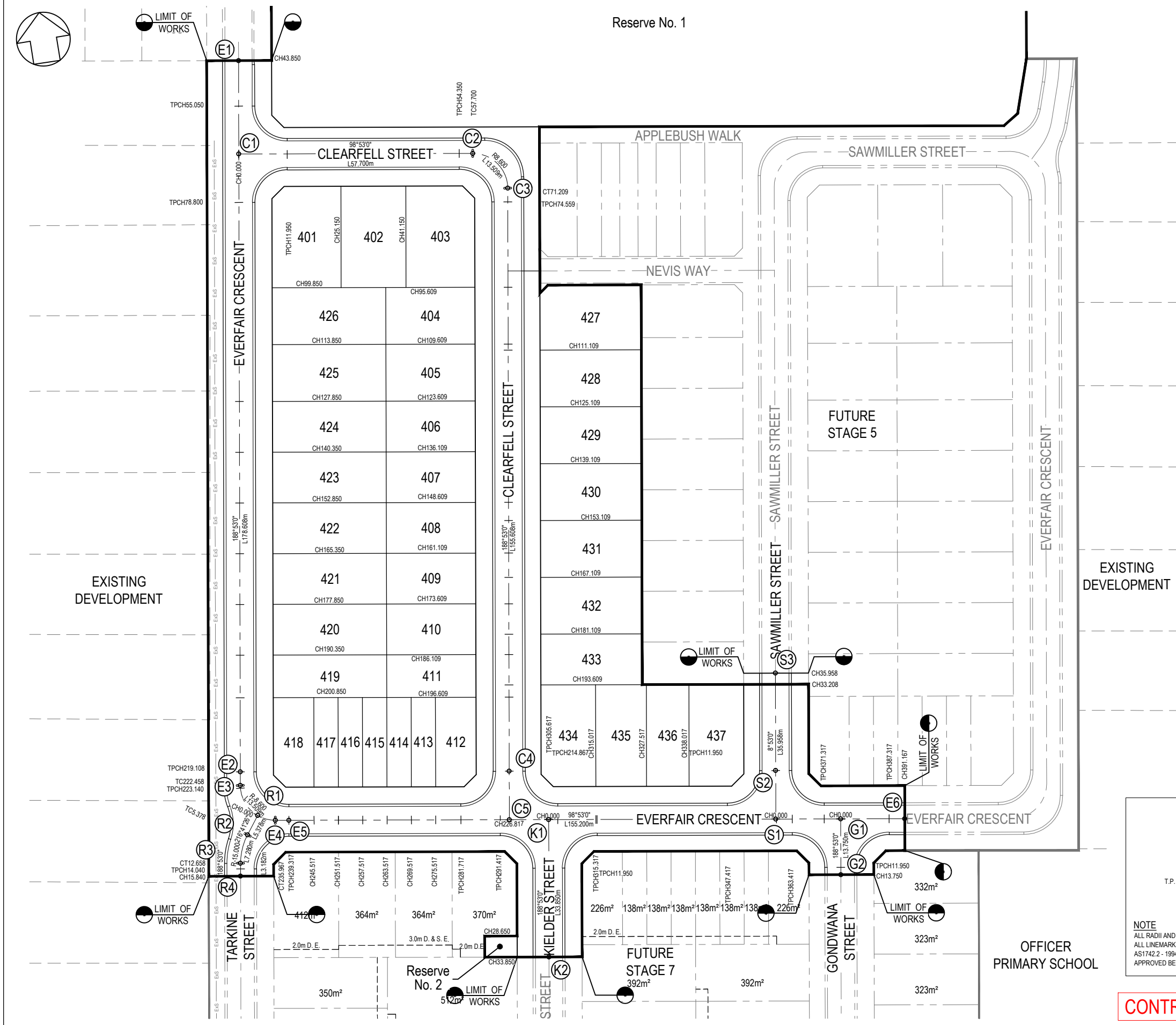
CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

SCALE	1:1500 @ A1
VERSION	0
SHEET	7 OF 47
DRAWING No.	01177-04-E-106

OVERALL STAGING PLAN

Reserve No. 1

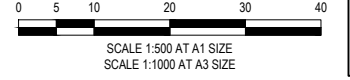
CENTRELINE SETOUT TABLE									
ALIGNMENT C									
POINT NO	EASTING	NORTHING	A		B		L		MID POINT RL
C1	360261.935	5786777.993	13.51	2.519	1.864	3.291	2.790	3.377	49.885
C2	360318.943	5786769.083							
C3	360326.112	5786759.258							
C4	360303.928	5786617.323							
C5	360302.082	5786605.517							
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
C2 - C3	90	8.6	13.51	2.519	1.864	3.291	2.790	3.377	49.885
ALIGNMENT E									
POINT NO	EASTING	NORTHING	A		B		L		MID POINT RL
E1	360265.487	5786800.717	13.51	2.519	1.864	3.291	2.790	3.377	46.361
E2	360238.423	5786627.562							
E3	360237.906	5786624.252							
E4	360245.074	5786614.427							
E5	360248.384	5786613.909							
E6	360398.413	5786590.460							
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
E3 - E4	90	8.6	13.51	2.519	1.864	3.291	2.790	3.377	46.361
ALIGNMENT G									
POINT NO	EASTING	NORTHING	A		B		L		MID POINT RL
G1	360382.802	5786592.900	7.28	0.439	0.329	1.816	1.789	1.82	44.396
G2	360380.679	5786579.315							
ALIGNMENT K									
POINT NO	EASTING	NORTHING	A		B		L		MID POINT RL
K1	360311.666	5786604.019	15	0.439	0.329	1.816	1.789	1.82	44.396
K2	360306.439	5786570.575							
ALIGNMENT S									
POINT NO	EASTING	NORTHING	A		B		L		MID POINT RL
S1	360366.994	5786595.371	15	0.439	0.329	1.816	1.789	1.82	44.396
S2	360368.840	5786607.178							
S3	360372.547	5786630.898							
ALIGNMENT R									
POINT NO	EASTING	NORTHING	A		B		L		MID POINT RL
R1	360240.951	5786616.272	15	0.439	0.329	1.816	1.789	1.82	44.396
R2	360237.738	5786611.959							
R3	360234.946	5786605.313							
R4	360234.454	5786602.170							
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
R2 - R3	27.807	15	7.28	0.439	0.329	1.816	1.789	1.82	44.396



WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVED ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. A MOCS ENQUIRY ON 1100 MUST BE MADE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.

WARNING
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SETOUT INFORMATION PROVIDED ON THIS PLAN WITH THE DESIGN INTENT WHICH INCLUDES, BUT IS NOT LIMITED TO ITEMS SUCH AS LENGTHS, CO-ORDINATES, SETOUT DIMENSIONS AND PEGGED TITLES BY THE PRINCIPAL'S LICENSED SURVEYOR.

CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST
VER	DATE	REVISION	APPD.

CENTRE LINE SETOUT POINT	(H3)
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hillstowe
by AVID Property Group

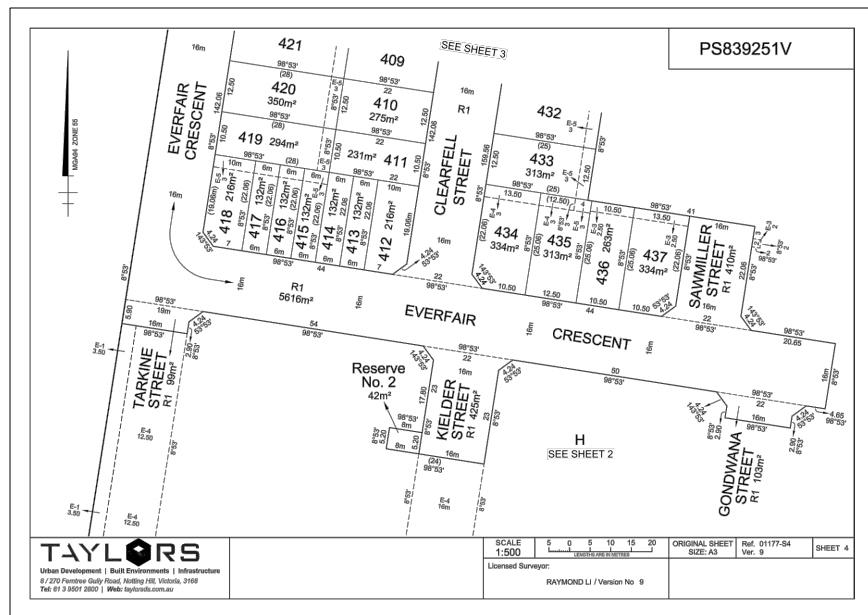
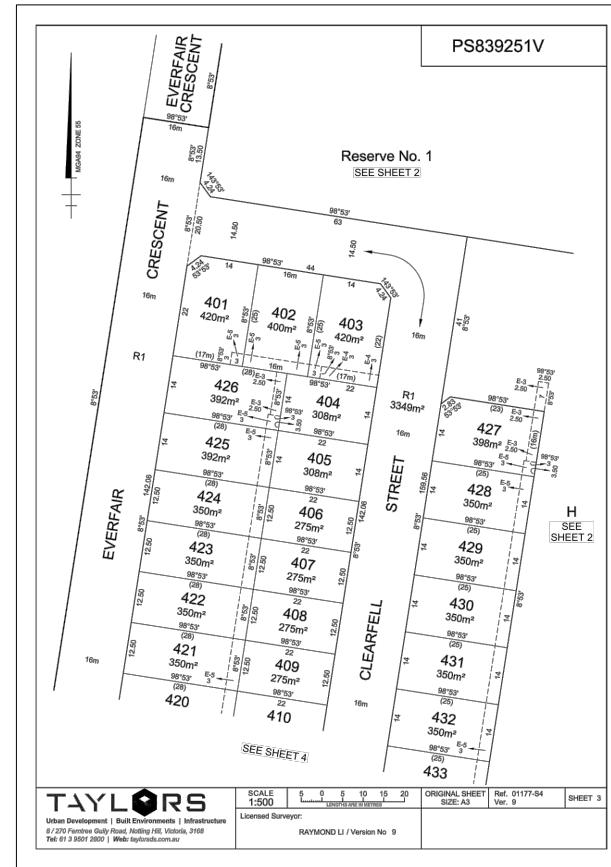
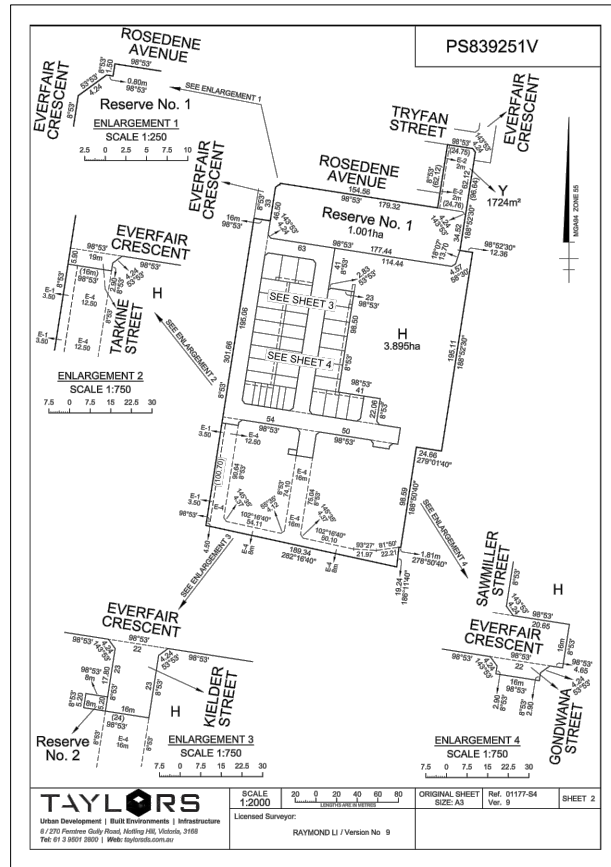
TAYLORS
Urban Development | Infrastructure
8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2600 | Web: taylors.com.au

DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-107

Coords: MGA Levels: AHD

CARDINIA SHIRE COUNCIL	SCALE 1:500 @ A1
415 PRINCES HIGHWAY, OFFICER VIC 3809 HILLSTOWE ESTATE, STAGE 4	VERSION 0
ROAD CENTRELINE SETOUT PLANS	SHEET 8 OF 47
	DRAWING No. 01177-04-E-107

PLAN OF SUBDIVISION		EDITION 1	PS839251V																																			
LOCATION OF LAND PARISH: PAKENHAM TOWNSHIP: SECTION: CROWN ALLOTMENT: 38A (PART) & 38B (PART) CROWN PORTION: TITLE REFERENCE: Vol. 12267 Fol. 927 LAST PLAN REFERENCE: Lot C on PS836044S POSTAL ADDRESS: 46 - 50 Bayview Road OFFICER: 3809 MGA 94 CO-ORDINATES: E 380 290 ZONE: 55 (at time of subdivision) (at centre of lot) (at centre of lot)		COUNCIL NAME: CARDINIA SHIRE COUNCIL NOTATIONS Lots 401 to 437 (both inclusive) may be affected by one or more restrictions. Refer to Creation of Restrictions A, B & C on Sheets 5 & 6 of this plan for details. OTHER PURPOSE OF PLAN Removal of the sewerage easement marked E-3 on PS836044S in so far as where it lies within new road R1 on this plan, upon registration of this plan. GROUNDS FOR REMOVAL: By agreement between all interested parties vide Sec.6(1)(X) of the Subdivision Act 1988.																																				
VESTING OF ROADS AND/OR RESERVES IDENTIFIER: COUNCIL/BODY/PERSON Road R1: Cardinia Shire Council Reserve No. 1: Cardinia Shire Council Reserve No. 2: Annet Electricity Services Pty Ltd NOTATIONS DEPTH LIMITATION: Does Not Apply SURVEY: This plan is based on survey. STAGING: This is not a staged subdivision. This survey has been conducted to Pakenham PM22 and Pakenham PM20 in Proclaimed Survey Area No. (Not Applicable) HILLSTOWE ESTATE - Release No. 4 Area of Release: 3.114ha No. of Lots: 37 Lots and Balance Lots H & Y		EASEMENT INFORMATION LEGEND: A - Appurtenant Easement E - Encumbering Easement R - Encumbering Easement (Road) <table border="1"> <thead> <tr> <th>Easement Reference</th> <th>Purpose</th> <th>Width (Metres)</th> <th>Origin</th> <th>Land Beneficial In Favour Of</th> </tr> </thead> <tbody> <tr> <td>E-1</td> <td>Sewerage</td> <td>3.50</td> <td>PS836731D</td> <td>South East Water Corporation</td> </tr> <tr> <td>E-2</td> <td>Sewerage</td> <td>2</td> <td>PS836044S</td> <td>South East Water Corporation</td> </tr> <tr> <td>E-3</td> <td>Sewerage</td> <td>See Diag.</td> <td>This Plan</td> <td>South East Water Corporation</td> </tr> <tr> <td>E-4</td> <td>Drainage</td> <td>See Diag.</td> <td>This Plan</td> <td>Cardinia Shire Council</td> </tr> <tr> <td>E-5</td> <td>Sewerage</td> <td>See Diag.</td> <td>This Plan</td> <td>South East Water Corporation</td> </tr> <tr> <td></td> <td>Drainage</td> <td>See Diag.</td> <td>This Plan</td> <td>Cardinia Shire Council</td> </tr> </tbody> </table>		Easement Reference	Purpose	Width (Metres)	Origin	Land Beneficial In Favour Of	E-1	Sewerage	3.50	PS836731D	South East Water Corporation	E-2	Sewerage	2	PS836044S	South East Water Corporation	E-3	Sewerage	See Diag.	This Plan	South East Water Corporation	E-4	Drainage	See Diag.	This Plan	Cardinia Shire Council	E-5	Sewerage	See Diag.	This Plan	South East Water Corporation		Drainage	See Diag.	This Plan	Cardinia Shire Council
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419	411, 415, 416, 417, 418, 420																																									
TAYLORS Urban Development Built Environments Infrastructure 8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9501 2800 Web: taylors.com.au																																										
Licensed Surveyor: RAYMOND LI / Version No. 9 ORIGINAL SHEET SIZE: A3 Rm: 01177-04 Ver. 9 SHEET 6																																										



WARNING
 BEWARE OF UNDERGROUND SERVICES
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CONTRACTOR CONSTRUCTION
 ISSUED FOR CONSTRUCTION

0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST
VER	DATE	REVISION	APPD.

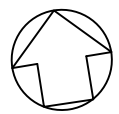
hillstowe
 by AVID Property Group
 Coords: MGA Levels: AHD

TAYLORS
 Urban Development | Infrastructure
 8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9501 2800 | Web: taylors.com.au

CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4
 PLAN OF SUBDIVISION

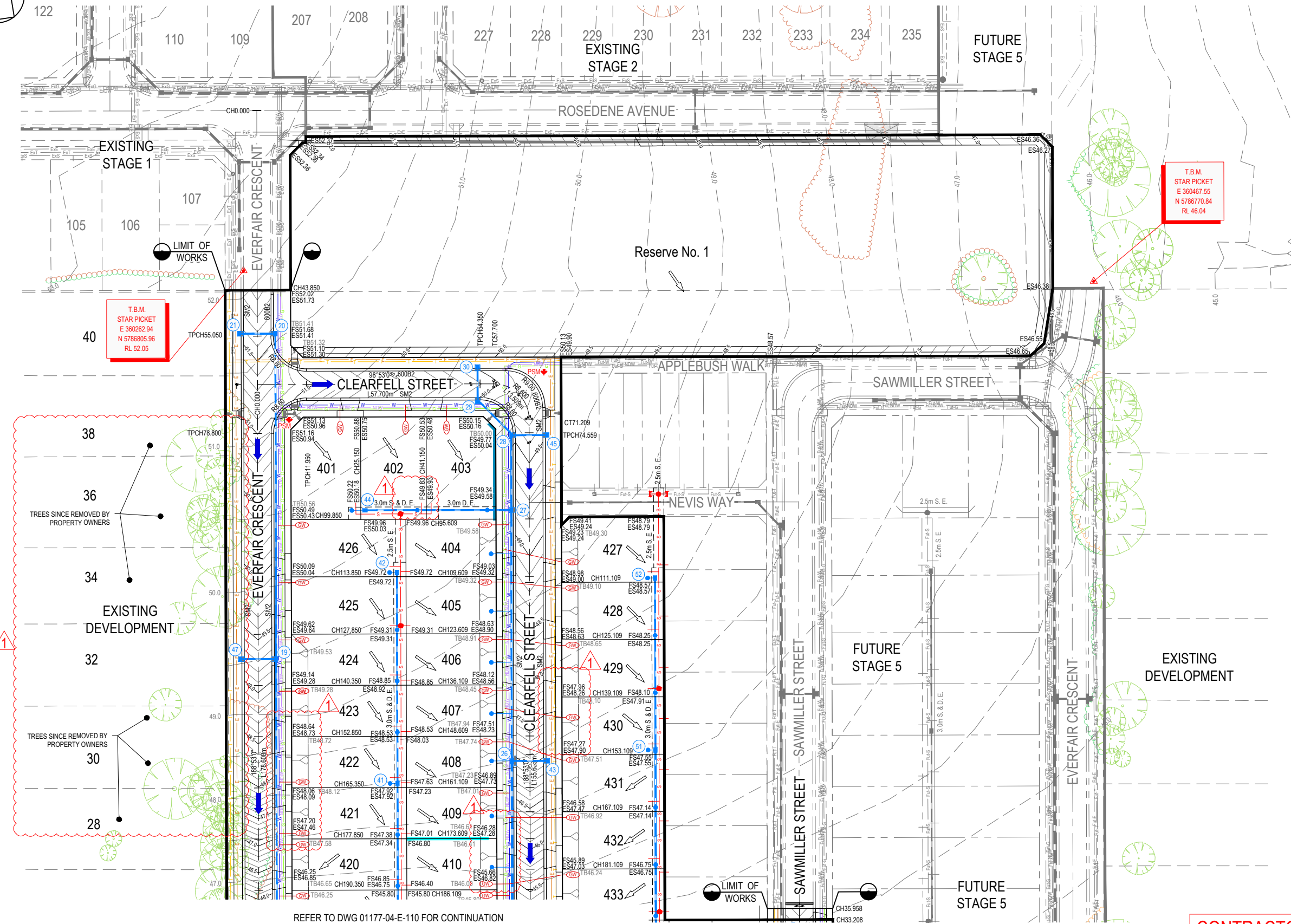
SCALE N.T.S.
 VERSION 0
 SHEET 9 OF 47
 DRAWING No. 01177-04-E-108

DESIGNED: LOD AUTHOURISED: JOY DRAFTED: WGO
 CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-108



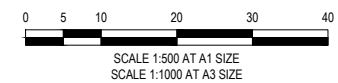
NOTES:

1. ALL EXISTING SERVICES UNDER NEW PAVEMENTS, PATHS AND VEHICLE CROSSINGS TO BE BACKFILLED WITH FCR.
2. ALL EXISTING PITS AND MANHOLES WITHIN NEW WORKS TO BE ADJUSTED TO NEATLY MATCH NEW FINISHED SURFACE.
3. ALL EXISTING SEWER PROPERTY BRANCHES AND HOUSE DRAINS DAMAGED BY WORKS TO BE REPLACED BY CONTRACTOR.
4. ALL EXISTING OPEN DRAINS TO BE DRAINED, DESLUGHED AND BACKFILLED TO LEVEL 1 REQUIREMENTS.



REFER TO DWG 01177-04-E-110 FOR CONTINUATION

CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
1	26/10/2021	CROSSOVERS AND PROPERTY CONNECTIONS & TPZs UPDATED	EST
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

EXISTING GAS MAIN	EXISTING WATER MAIN	EXISTING TELECO CABLE & PIT	EXISTING SEWER MAIN & M.H.	EXISTING DRAIN & PIT	PROPOSED GAS & WATER CONDUIT	STREET NAME SIGN	PROPOSED GAS MAIN	PROPOSED WATER MAIN	PROPOSED NON-DRINKING WATER	PROPOSED ELECTRICITY CABLE	PROPOSED TELECO CABLE	PROPOSED SEWER MAIN & M.H.	PROPOSED DRAIN, PIT & PROPERTY INLET	PROPOSED RETAINING WALL	PROPOSED ROCK MASS WALL	PROPOSED EARTH WALL	TSGI (TACTILE GROUND SURFACE INDICATORS)	EXISTING SURFACE LEVEL	FINISHED SURFACE BUILDING LINE	FINISHED SURFACE TOP OF BATTER	TPZ EXCLUSION ZONE
EsG	EsW	EsE	EsS	EsD	G-W	P.S.M.	G	W	NW	E	T	S	TD	---	---	---	---	ES 51.260	FS 51.046	TB 51.296	---

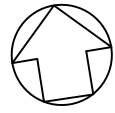


DESIGNED: LOD	AUTHORISED: JOY	DRAFTED: WGO
CHECKED: MIO	AUTH. DATE: 18/09/2020	CAD REF: 01177-04-E-109-111

CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

DETAIL LAYOUT PLAN
 SHEET 1 OF 3

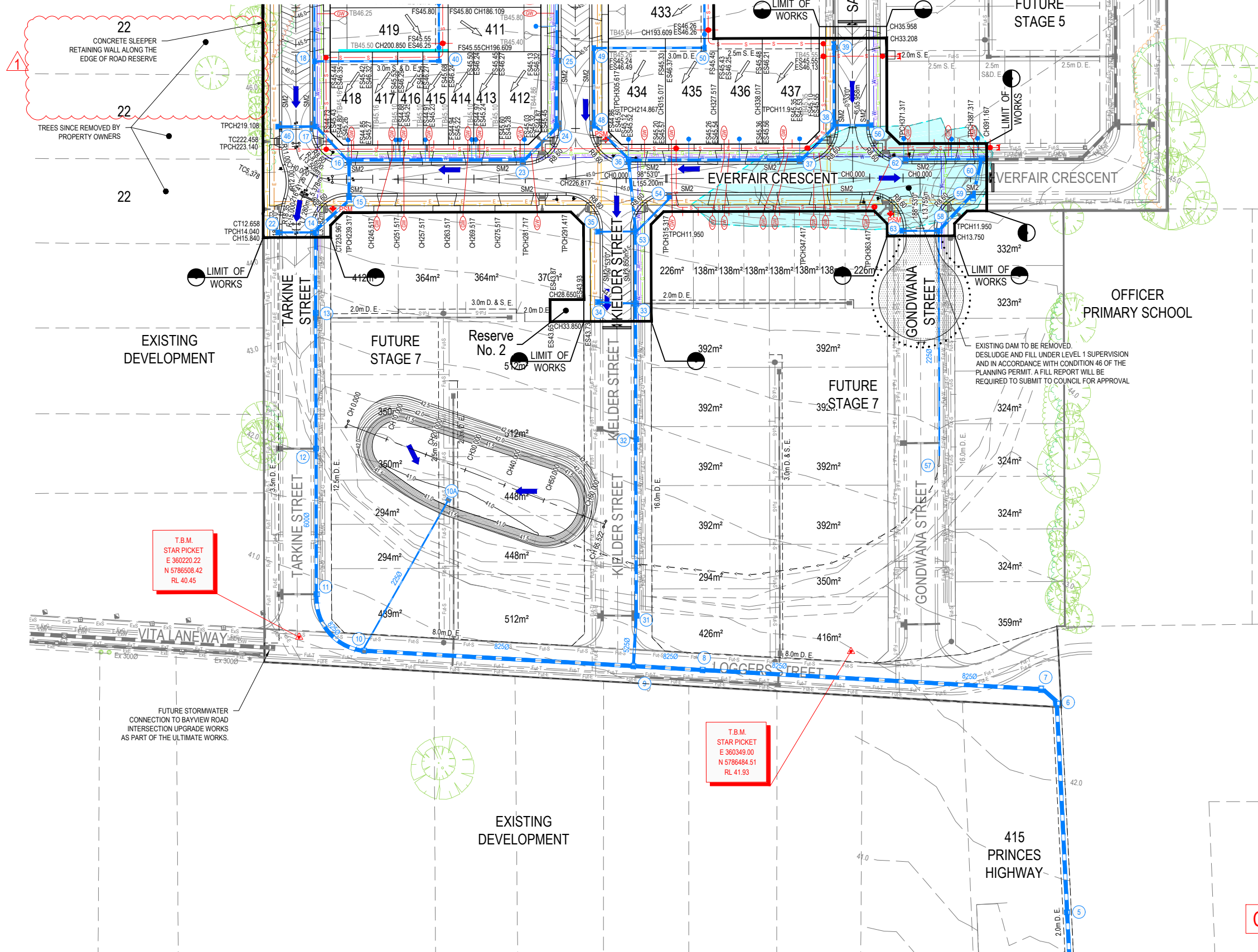
SCALE	1:500 @ A1
VERSION	1
SHEET	10 OF 47
DRAWING No.	01177-04-E-109



REFER TO DWG 01177-04-E-109 FOR CONTINUATION

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EXISTING DEVELOPMENT

FUTURE STAGE 7

Reserve No. 2

FUTURE STAGE 7

OFFICER PRIMARY SCHOOL

EXISTING DEVELOPMENT

415 PRINCES HIGHWAY

T.B.M.
STAR PICKET
E 360220.22
N 5786508.42
RL 40.45

T.B.M.
STAR PICKET
E 360349.00
N 5786484.51
RL 41.93

FUTURE STORMWATER CONNECTION TO BAYVIEW ROAD INTERSECTION UPGRADE WORKS AS PART OF THE ULTIMATE WORKS.

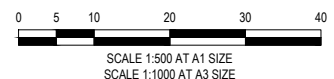
REFER TO DWG 01177-04-E-111 FOR CONTINUATION



WARNING
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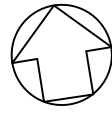
WARNING
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CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

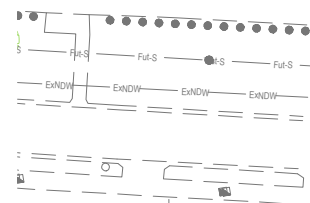
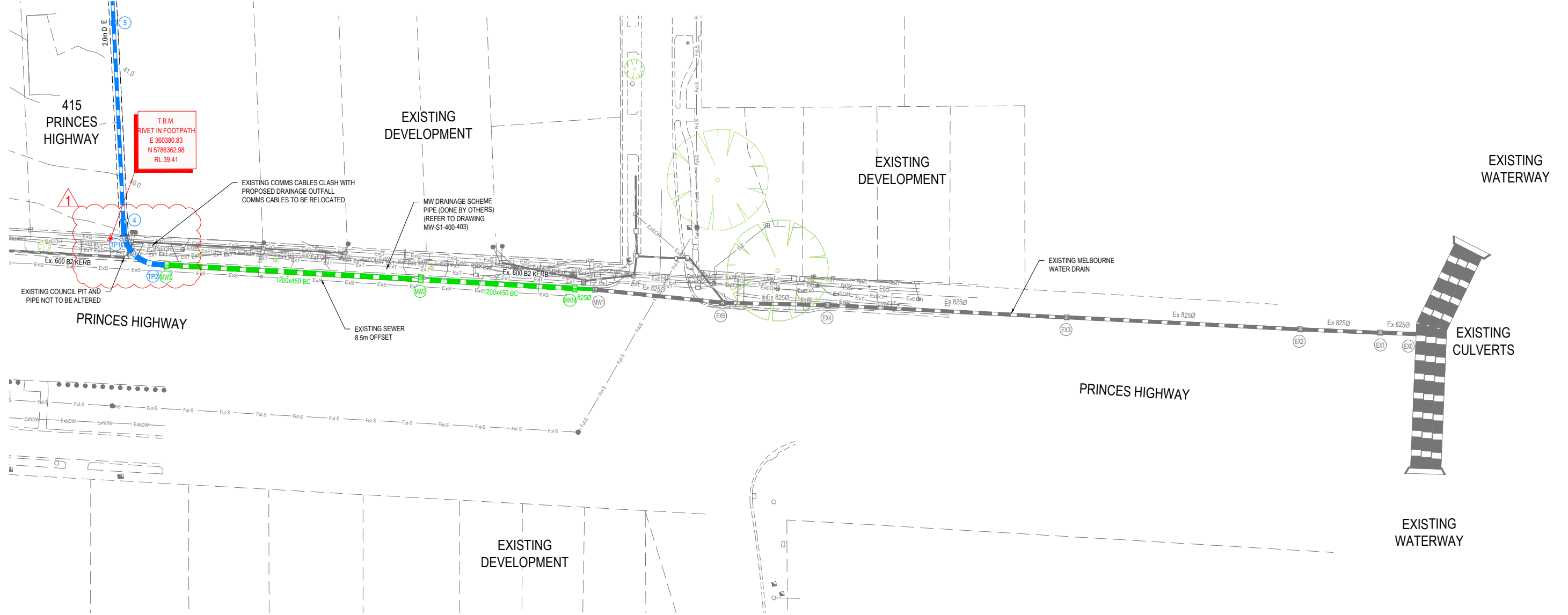
1	26/10/2021	CROSSOVERS AND PROPERTY CONNECTIONS & TPZs UPDATED	EST	EXISTING GAS MAIN EXISTING WATER MAIN EXISTING ELECTRICITY CABLE EXISTING TELCO CABLE & PIT EXISTING SEWER MAIN & M.H. EXISTING DRAIN & PIT PROPOSED GAS & WATER CONDUIT	PROPOSED GAS MAIN PROPOSED WATER MAIN PROPOSED NON-DRINKING WATER PROPOSED ELECTRICITY CABLE PROPOSED TELCO CABLE PROPOSED SEWER MAIN & M.H. PROPOSED DRAIN, PIT & PROPERTY INLET	STREET NAME SIGN P.S.M. PROPOSED RETAINING WALL PROPOSED EARTH WALL TGSi (TACTILE GROUND SURFACE INDICATORS) EXISTING SURFACE LEVEL FINISHED SURFACE BUILDING LINE & ROAD RESERVE FINISHED SURFACE TOP OF BATTER	 by AVID Property Group Urban Development Infrastructure 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9501 2600 Web: taylors.com.au	CARDINIA SHIRE COUNCIL 415 PRINCES HIGHWAY, OFFICER VIC 3809 HILLSTOWE ESTATE, STAGE 4 DETAIL LAYOUT PLAN SHEET 2 OF 3	SCALE 1:500 @ A1 VERSION 1 SHEET 11 OF 47 DRAWING No. 01177-04-E-110
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST	EXISTING DRAIN & PIT PROPOSED GAS & WATER CONDUIT	PROPOSED SEWER MAIN & M.H. PROPOSED DRAIN, PIT & PROPERTY INLET	EXISTING SURFACE LEVEL FINISHED SURFACE BUILDING LINE & ROAD RESERVE FINISHED SURFACE TOP OF BATTER	DESIGNED: LOD AUTHORISED: JOY DRAFTED: WGO CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-109-111		



REFER TO DWG 01177-04-E-110 FOR CONTINUATION

NOTES:

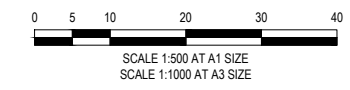
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CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
1	07/09/2021	MINOR AMENDMENT TO OUTFALL DRAIN	EST
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

EXISTING GAS MAIN	ExG	PROPOSED DRAIN & PIT	Blue dashed line with arrow
EXISTING WATER MAIN	ExW	MELBOURNE WATER DRAIN AND PIT	Green dashed line with arrow
EXISTING ELECTRICITY CABLE	ExE	T.B.M.	Red triangle
EXISTING TELCO CABLE & PIT	ExT		
EXISTING SEWER MAIN & M.H.	ExS		
EXISTING DRAIN & PIT			
EXISTING OPEN CATCH DRAIN			



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CHECKED: MIO	AUTH. DATE: 18/09/2020	CAD REF: 01177-04-E-109-111

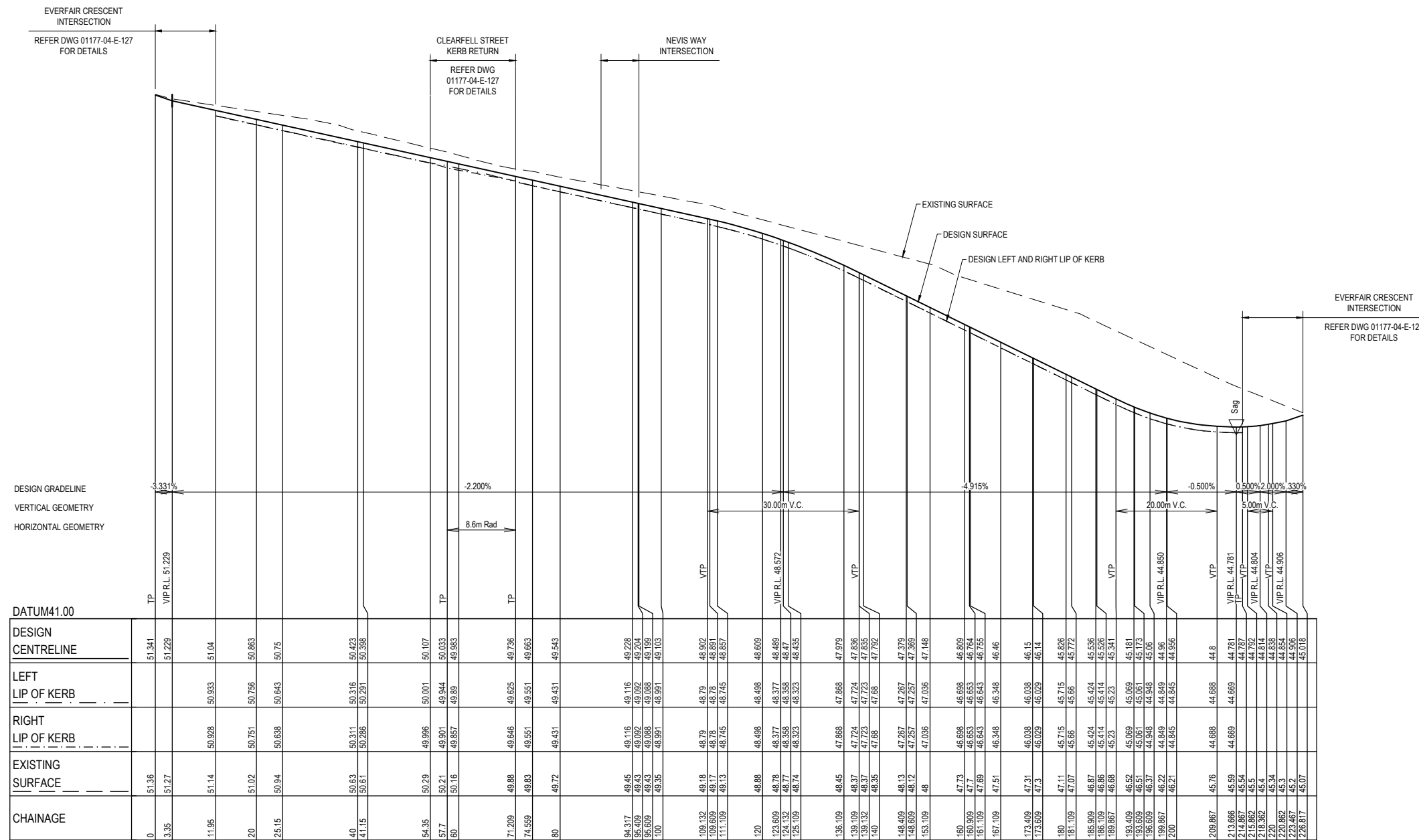
CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

SCALE 1:500 @ A1
 VERSION 1
 SHEET 12 OF 47
 DRAWING No. 01177-04-E-111

DETAIL LAYOUT PLAN
 SHEET 3 OF 3

NOTES:

1. ALL EXISTING SERVICES UNDER NEW PAVEMENTS, PATHS AND VEHICLE CROSSINGS TO BE BACKFILLED WITH FCR.
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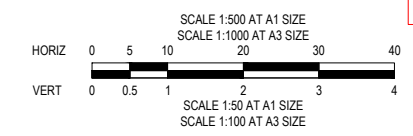
CLEARFELL STREET



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CONTRACTOR



CONSTRUCTION
 ISSUED FOR CONSTRUCTION

0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST
VER	DATE	REVISION	APPD.



CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

SCALE 1:500 H, 1:50 V @A1

VERSION 0
 SHEET 13 OF 47
 DRAWING No.

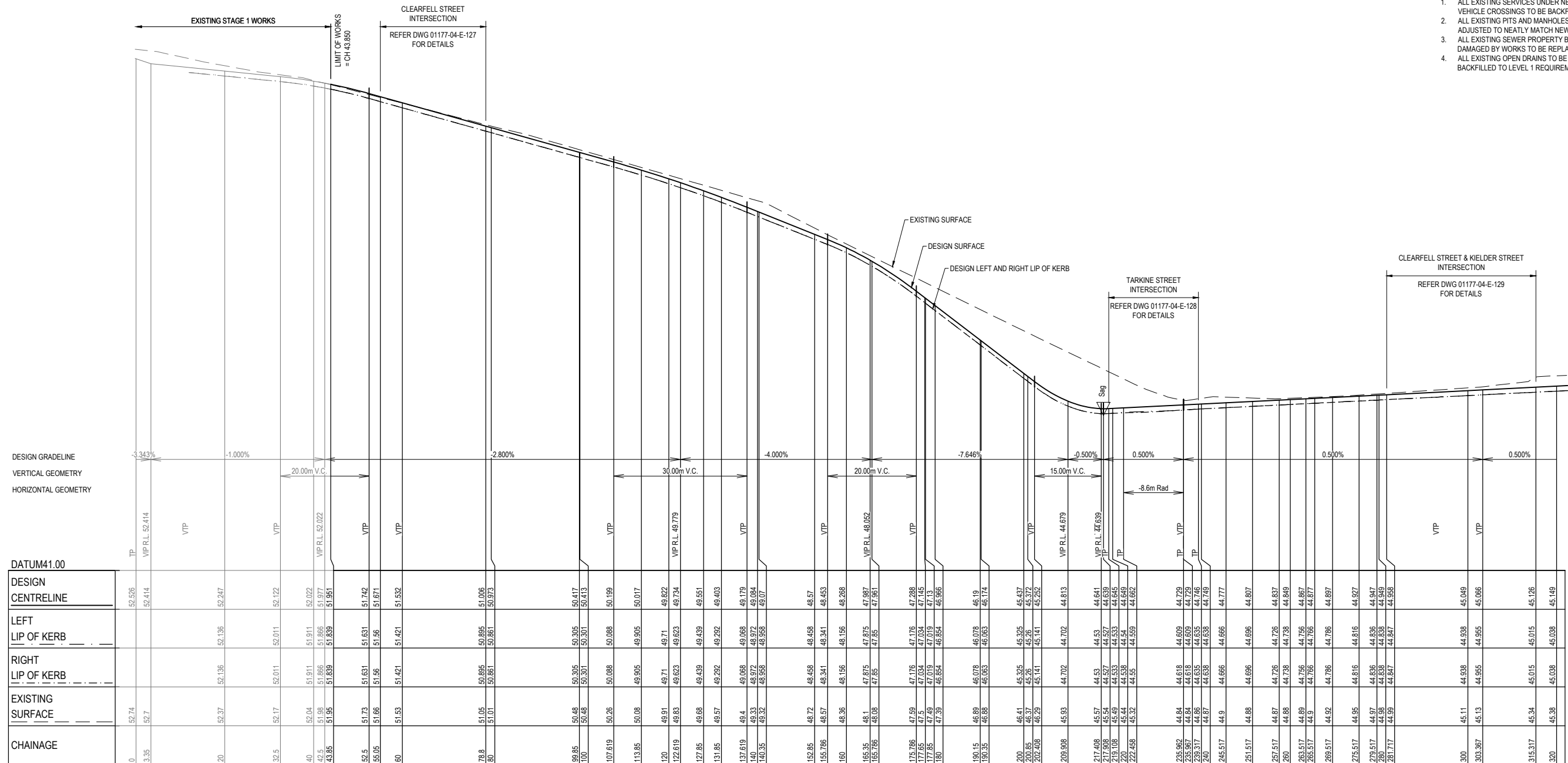
DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
 CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-112-116

ROAD LONGITUDINAL SECTIONS
 SHEET 1 OF 5

01177-04-E-112

NOTES:

1. ALL EXISTING SERVICES UNDER NEW PAVEMENTS, PATHS AND VEHICLE CROSSINGS TO BE BACKFILLED WITH FCR.
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DATUM 41.00	
DESIGN CENTRELINE	EXISTING SURFACE
0	52.74
3.35	52.77
20	52.37
32.5	52.17
40	52.04
42.5	51.98
43.85	51.95
52.5	51.73
55.05	51.66
60	51.53
78.8	51.05
80	51.01
99.85	50.48
100	50.48
107.619	50.26
113.85	50.08
120	49.91
122.619	49.83
127.85	49.68
131.85	49.57
137.619	49.4
140	49.33
140.35	49.32
152.85	48.72
155.786	48.57
160	48.36
165.35	48.1
165.786	48.08
175.786	47.59
177.65	47.5
177.85	47.49
180	47.39
190.15	46.89
190.35	46.88
200	46.41
200.85	46.37
202.408	46.29
209.908	45.93
217.408	45.57
217.908	45.54
219.108	45.49
220	45.48
222.458	45.32
235.962	44.84
235.967	44.84
239.317	44.86
240	44.87
245.517	44.9
251.517	44.88
257.517	44.87
260	44.88
263.517	44.89
265.517	44.9
269.517	44.92
275.517	44.95
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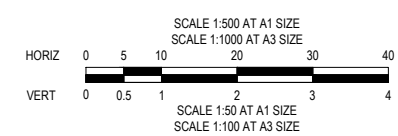
EVERFAIR CRESCENT



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CONTRACTOR



CONSTRUCTION
 ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST



CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

SCALE 1:500 H, 1:50 V @A1

VERSION 0
 SHEET 14 OF 47
 DRAWING No.

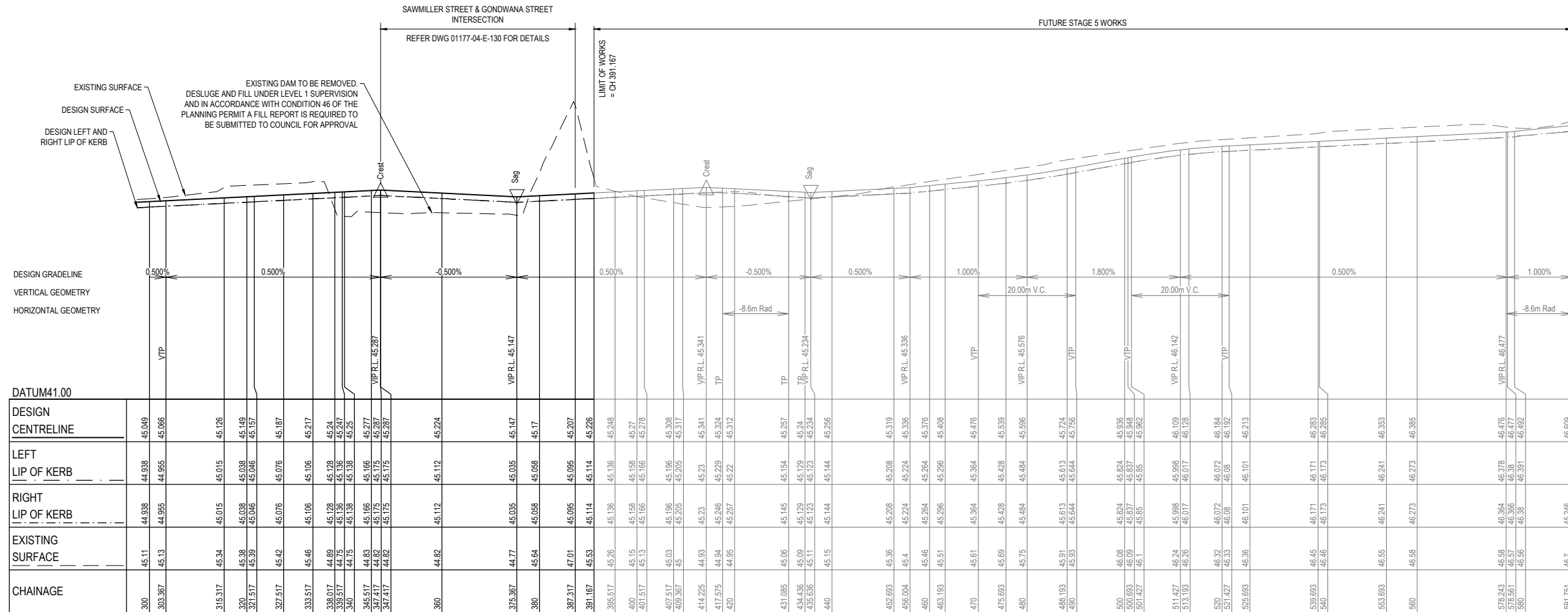
DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
 CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-112-116

ROAD LONGITUDINAL SECTIONS
 SHEET 2 OF 5

01177-04-E-113

NOTES:

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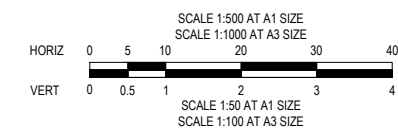
EVERFAIR CRESCENT



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CONTRACTOR



CONSTRUCTION
 ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

hillstowe
 by AVID Property Group

TAYLORS
 Urban Development | Infrastructure
 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9501 2600 | Web: taylors.com.au

CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

SCALE 1:500 H, 1:50 V @A1
 VERSION 0
 SHEET 15 OF 47
 DRAWING No.

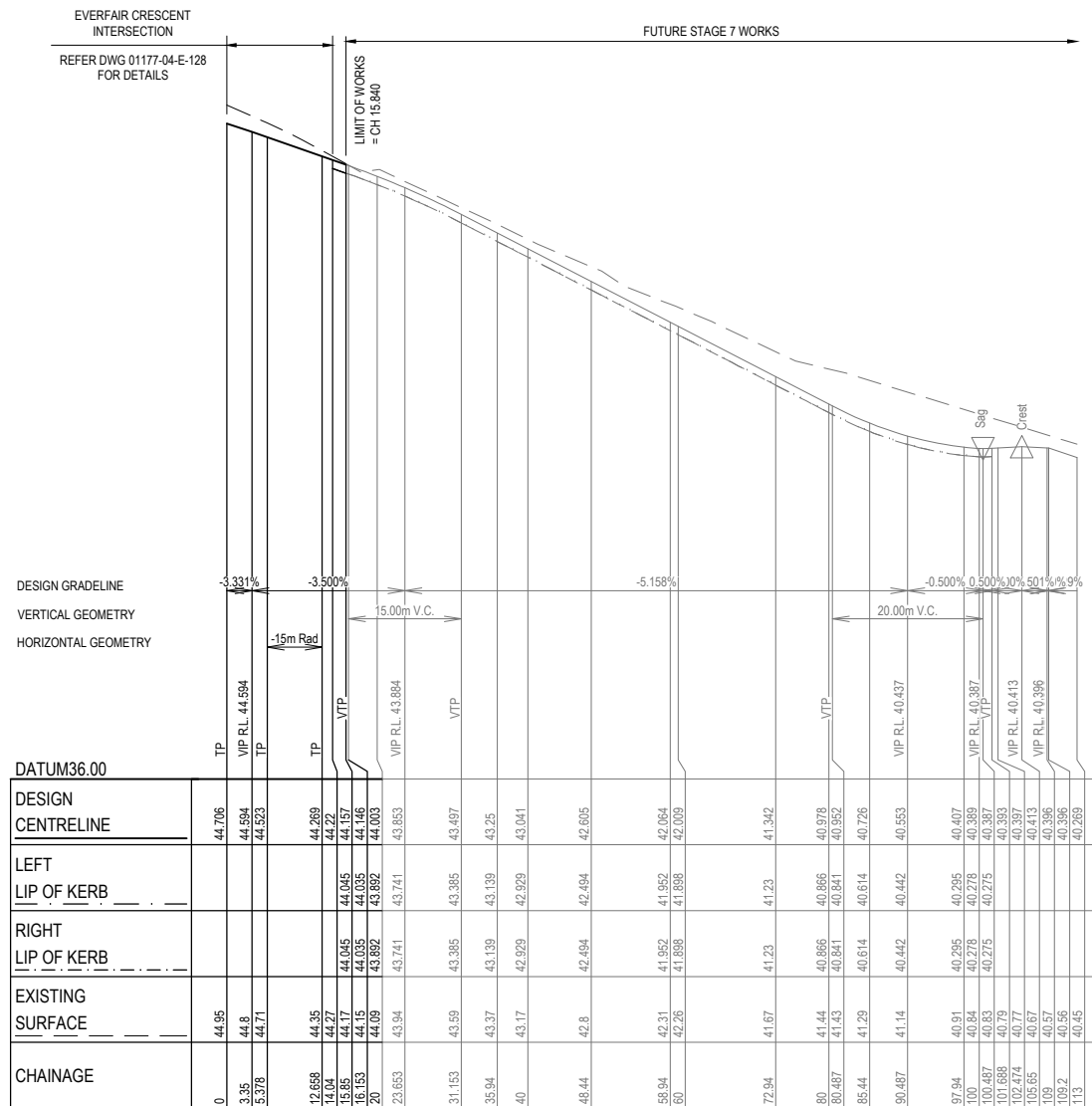
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ROAD LONGITUDINAL SECTIONS
 SHEET 3 OF 5

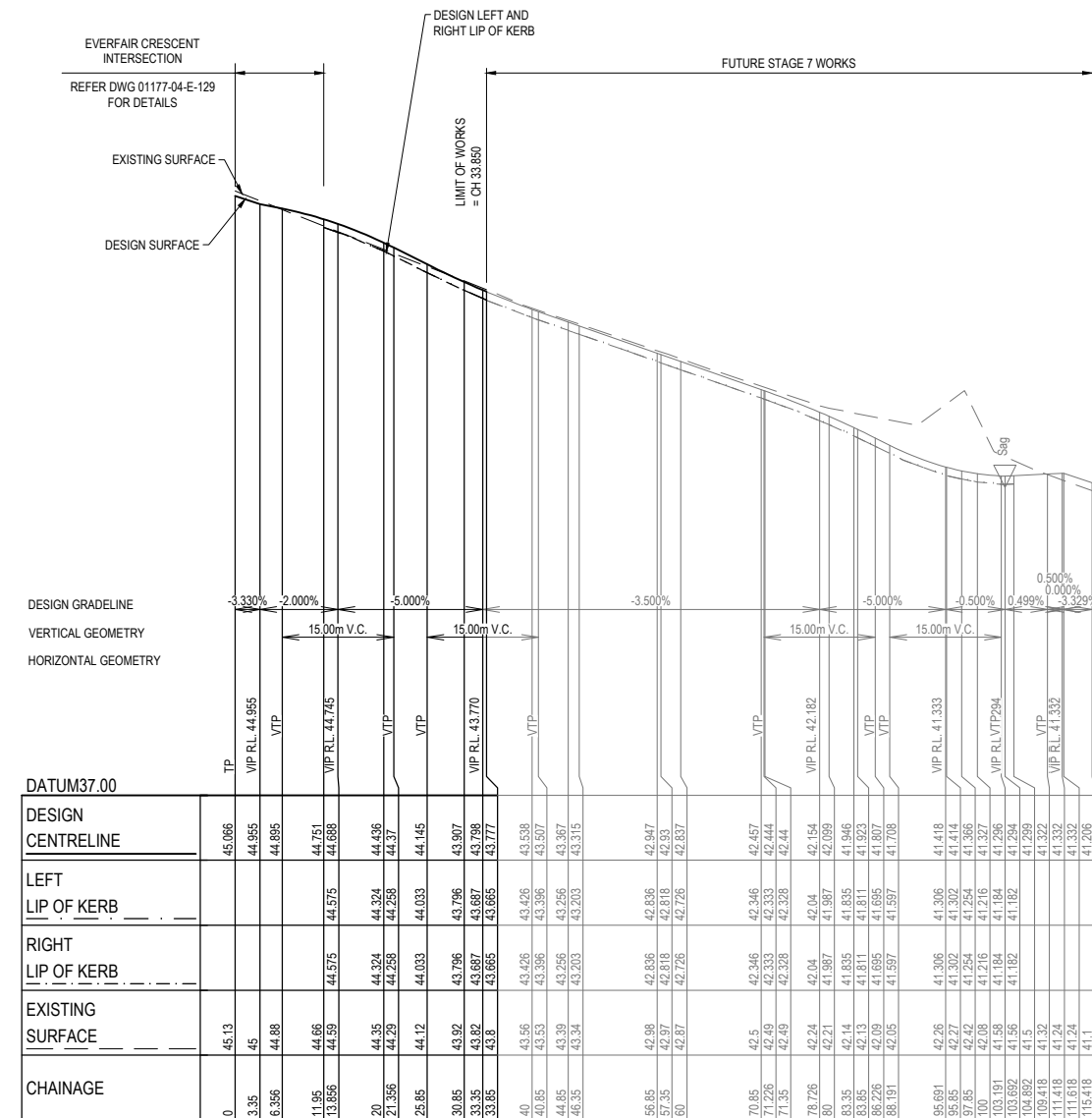
01177-04-E-114

NOTES:

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TARKINE STREET



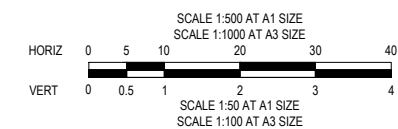
KIELDER STREET



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CONTRACTOR



CONSTRUCTION
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VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST



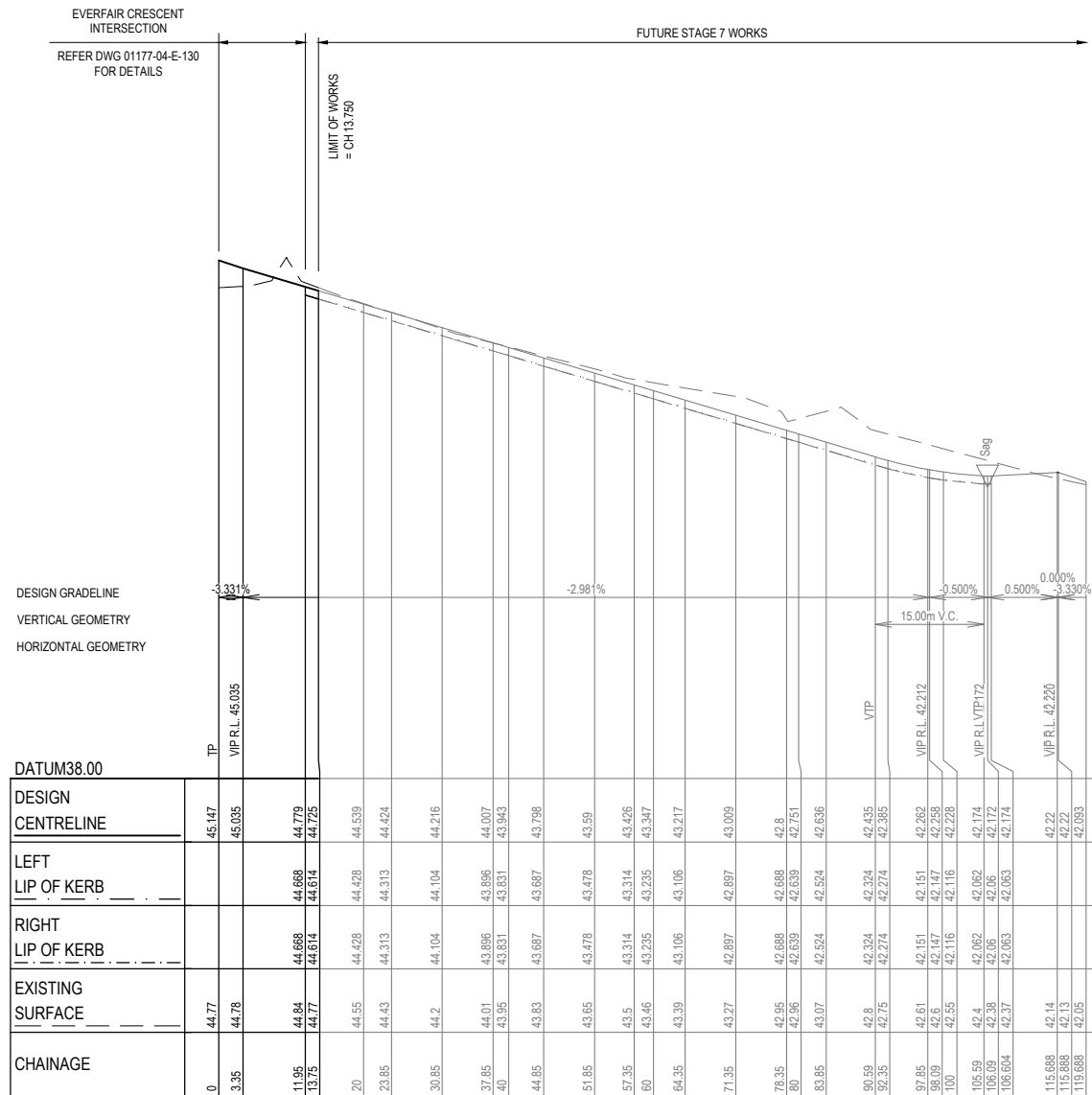
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CHECKED: MIO	AUTH. DATE: 18/09/2020	CAD REF: 01177-04-E-112-116

CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
ROAD LONGITUDINAL SECTIONS
SHEET 4 OF 5

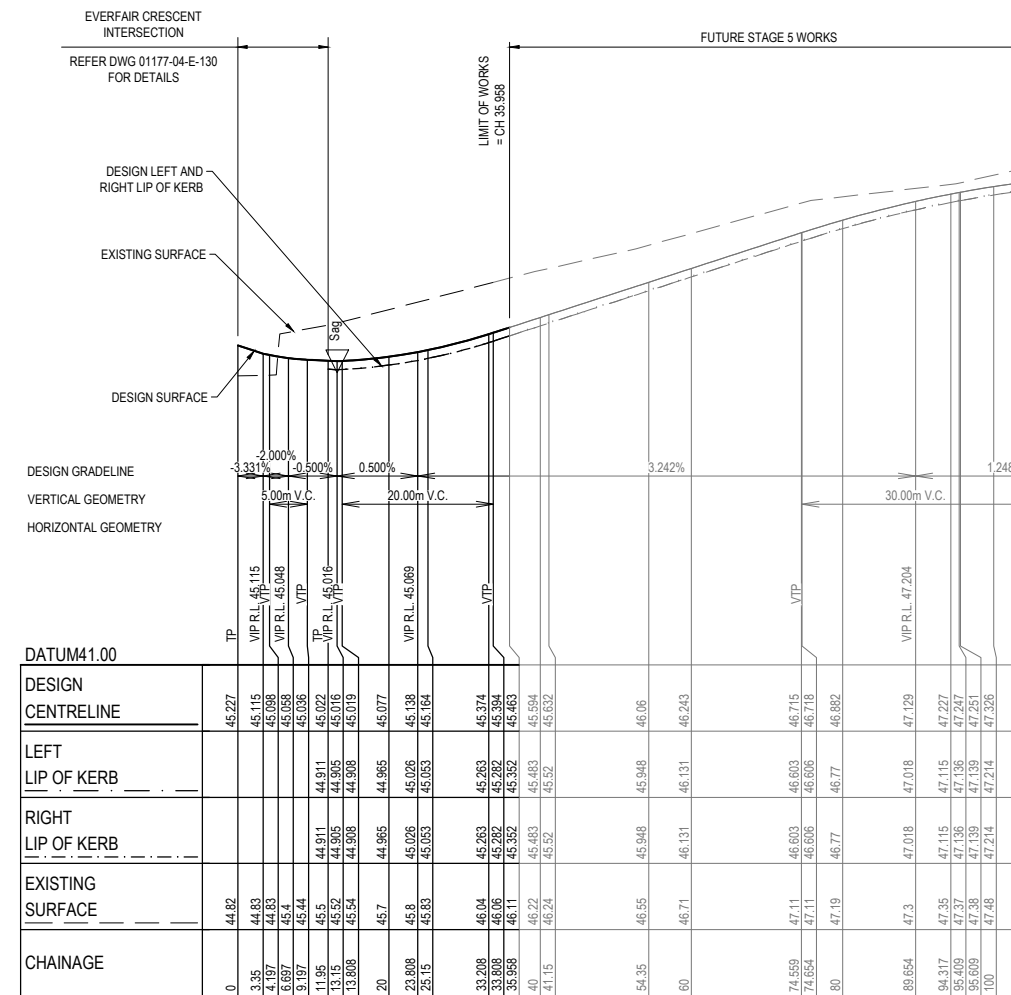
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VERSION	0
SHEET	16 OF 47
DRAWING No.	01177-04-E-115

NOTES:

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GONDWANA STREET



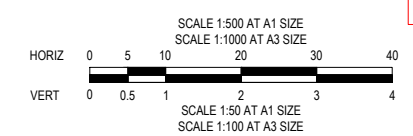
SAWMILLER STREET



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CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

hillstowe
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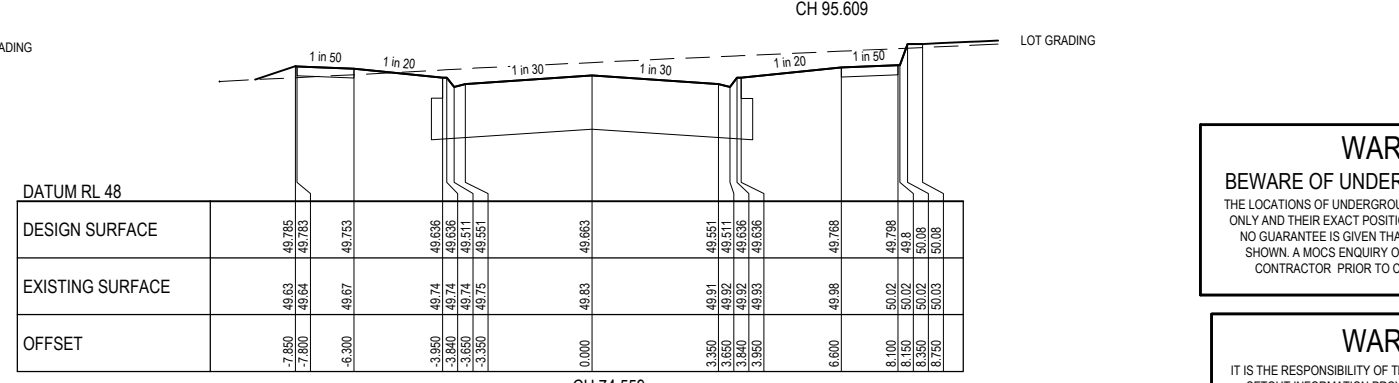
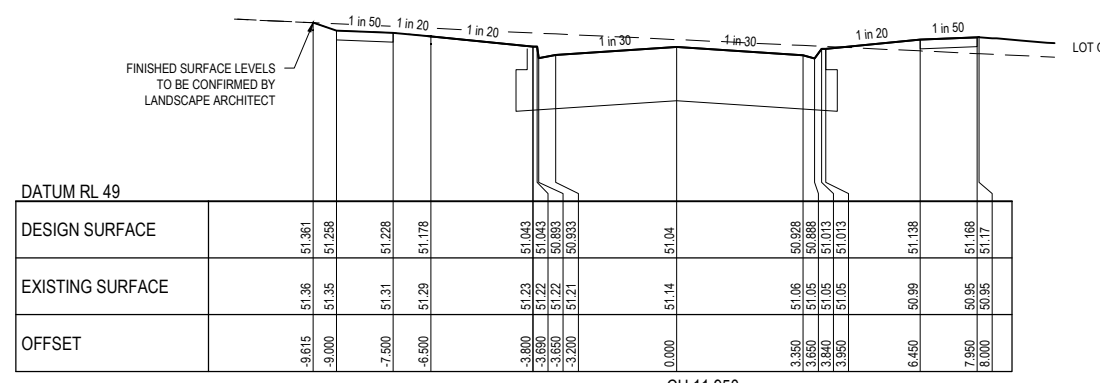
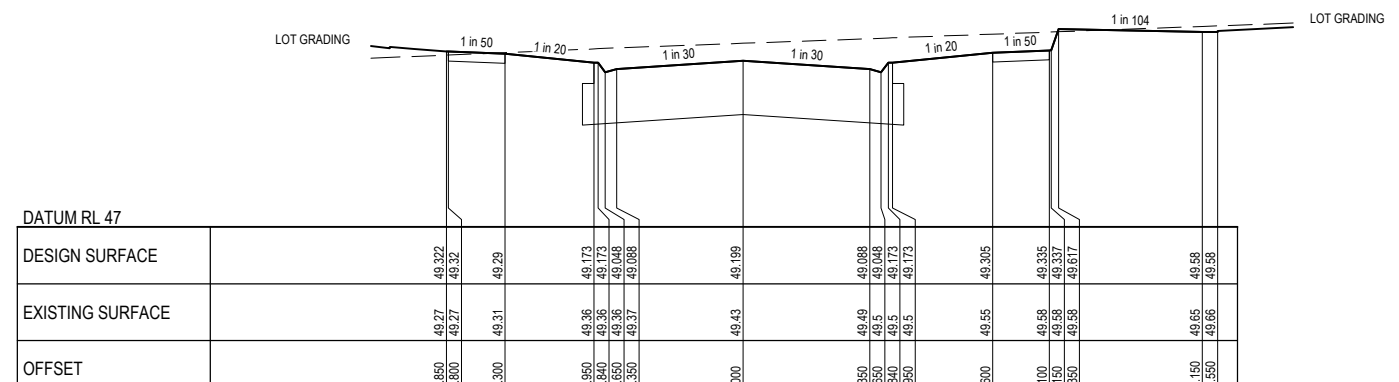
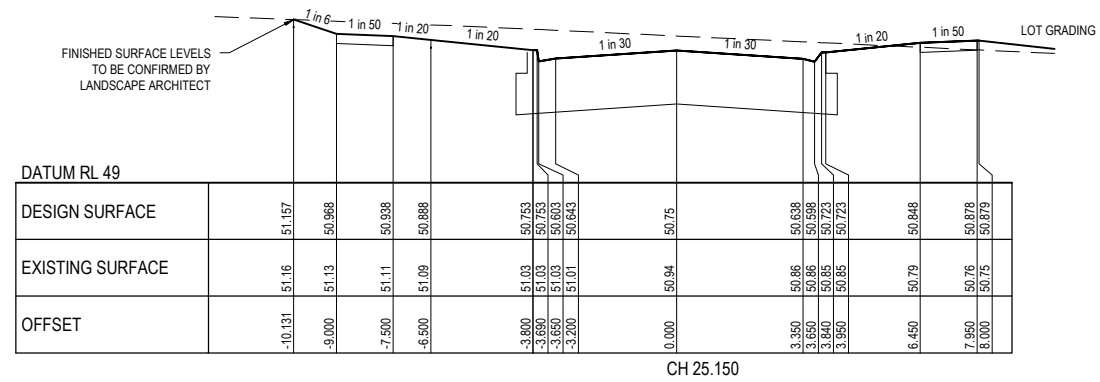
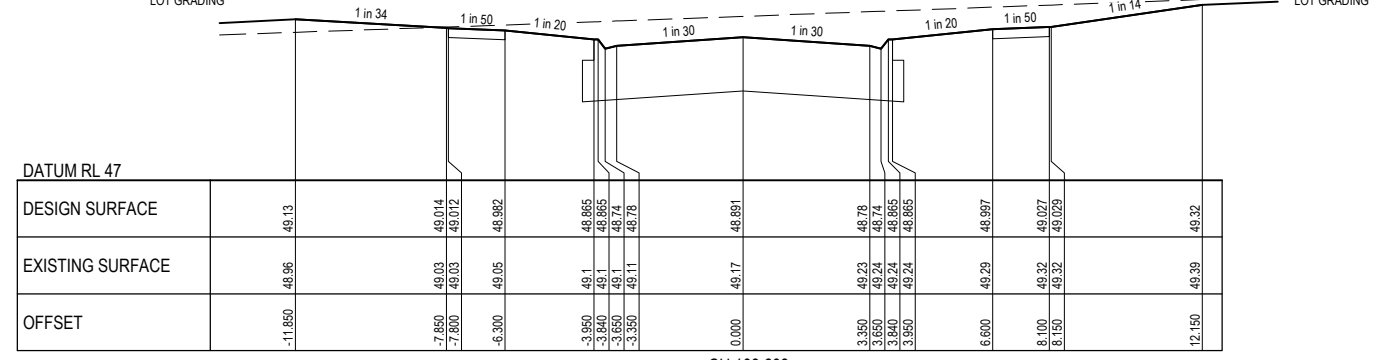
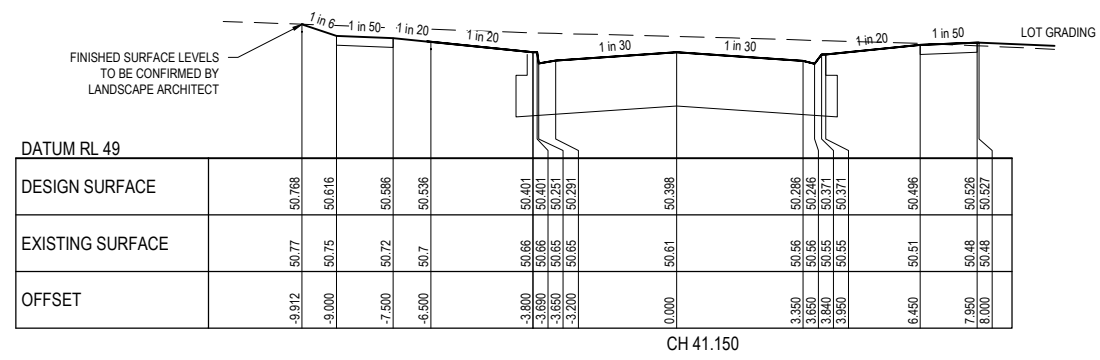
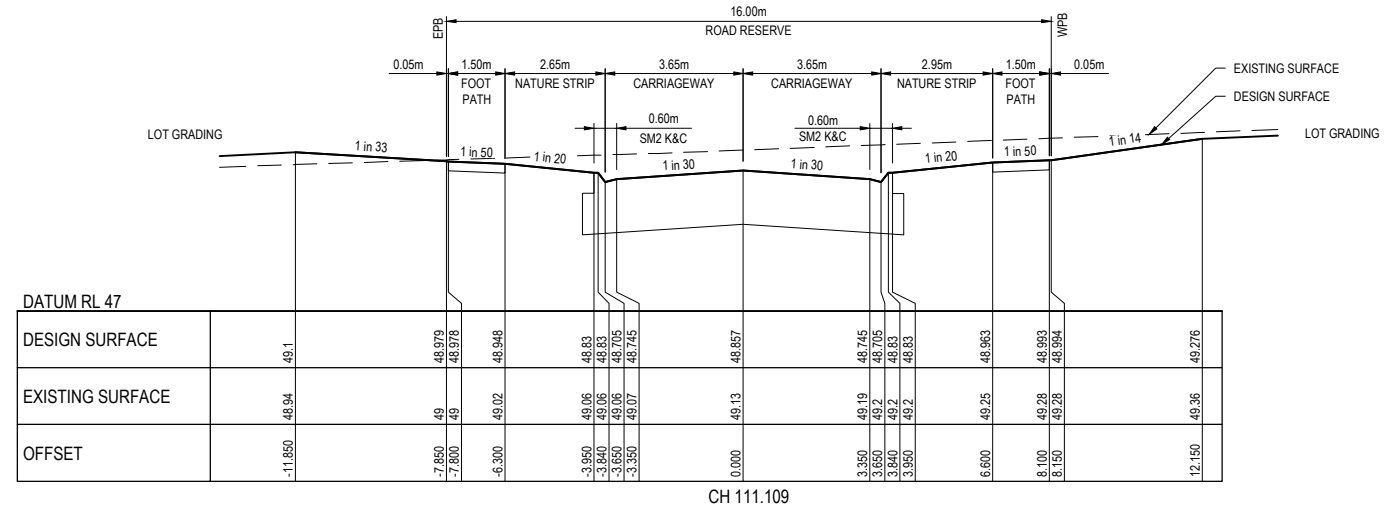
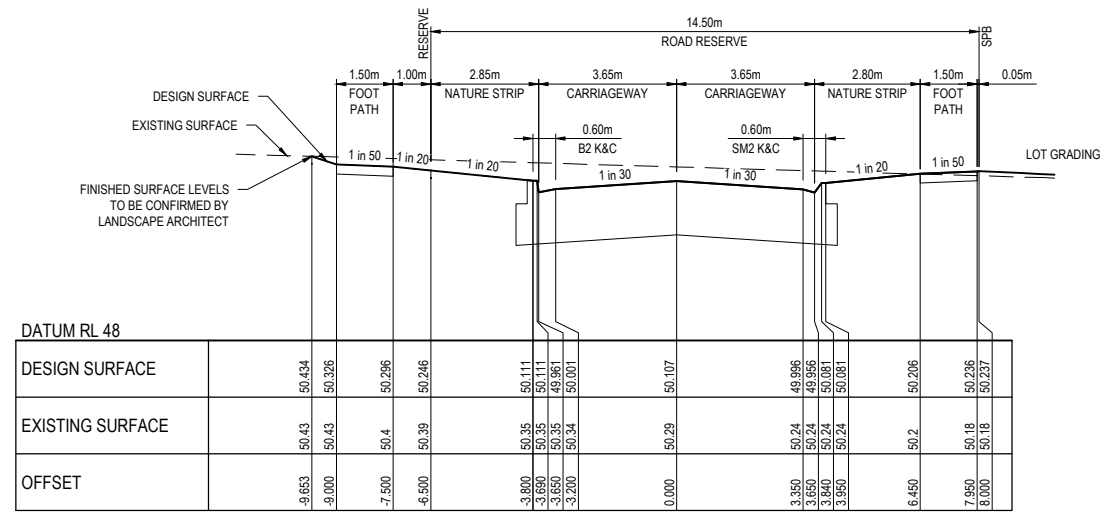
TAYLORS
Urban Development | Infrastructure
8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2800 | Web: taylors.com.au

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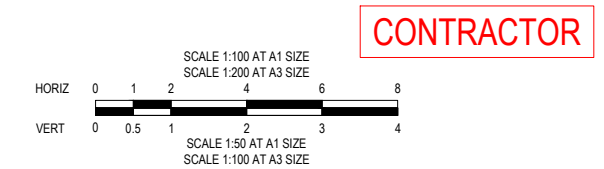
CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

ROAD LONGITUDINAL SECTIONS
SHEET 5 OF 5

SCALE 1:500 H, 1:50 V @A1
VERSION 0
SHEET 17 OF 47
DRAWING No. 01177-04-E-116



CLEARFELL STREET



CONTRACTOR

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CONSTRUCTION
ISSUED FOR CONSTRUCTION

/// DENOTES STRUCTURAL FILL COMPACTED TO LEVEL 1 REQUIREMENTS.
NOTE:
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VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

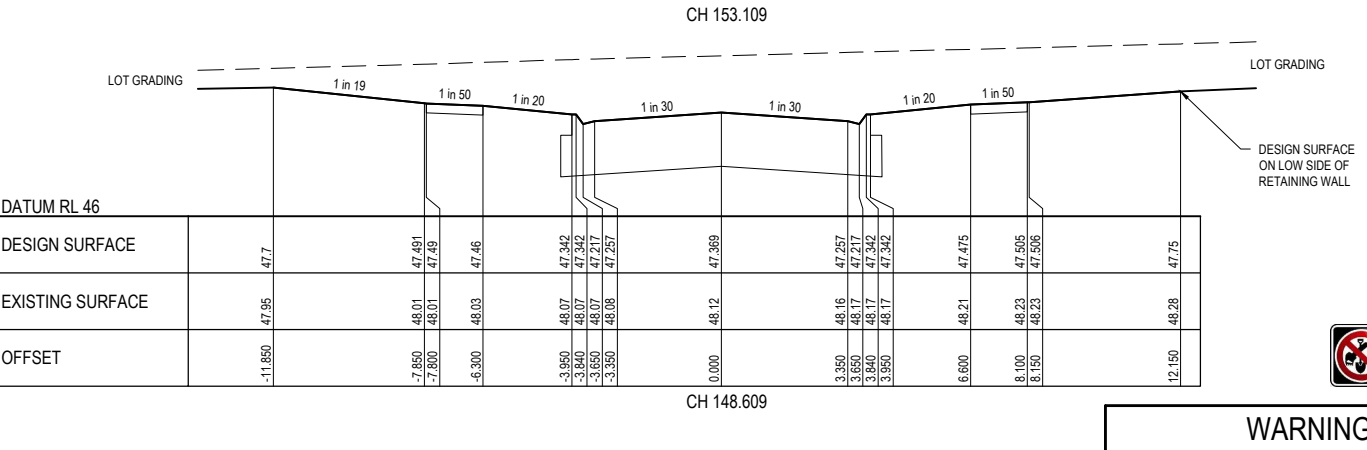
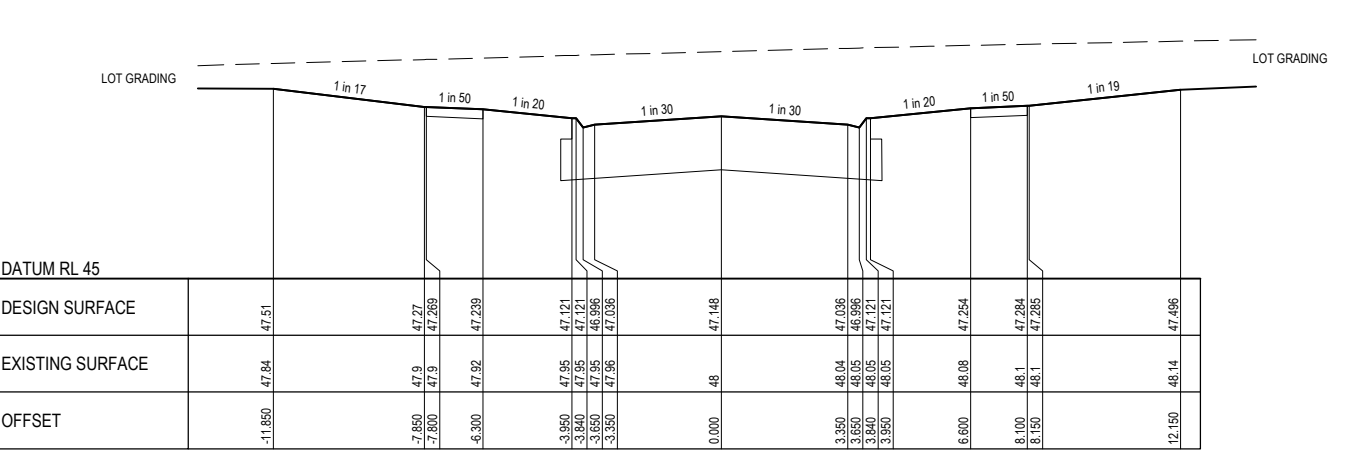
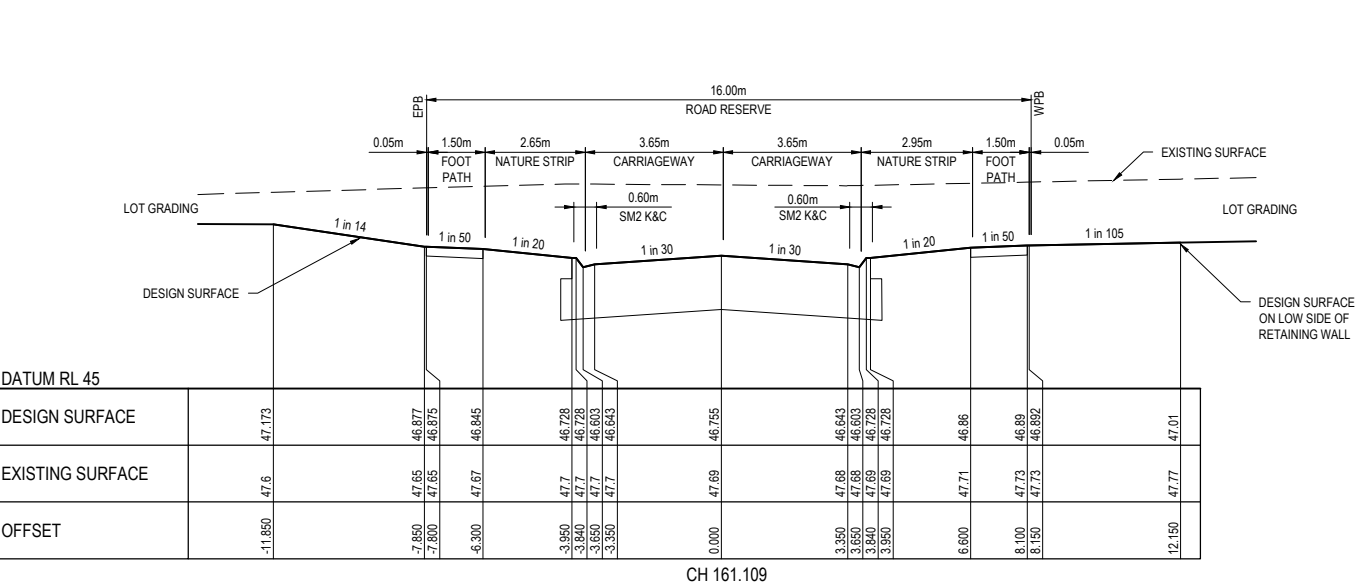
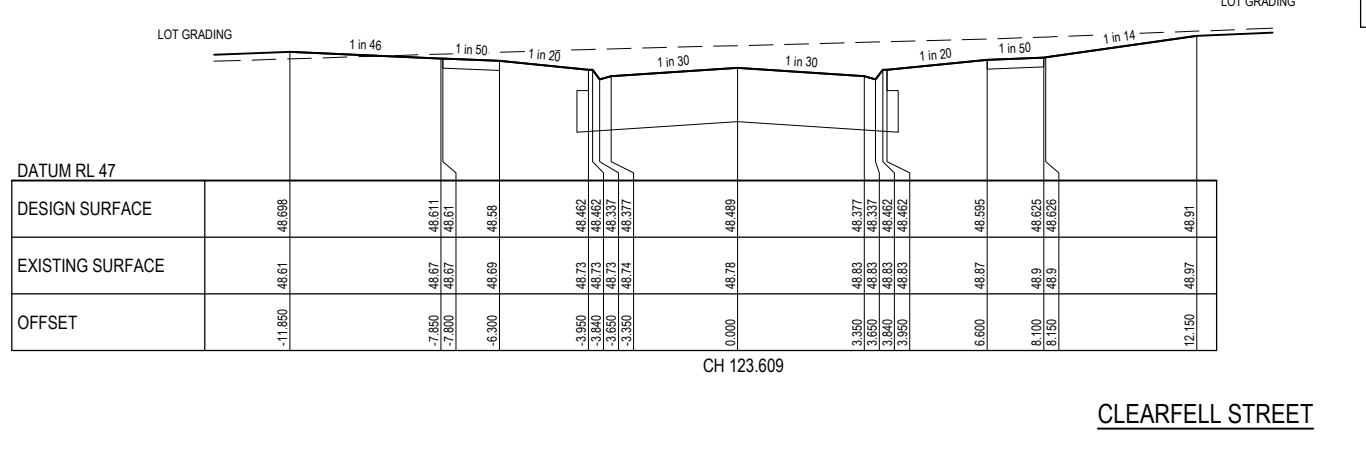
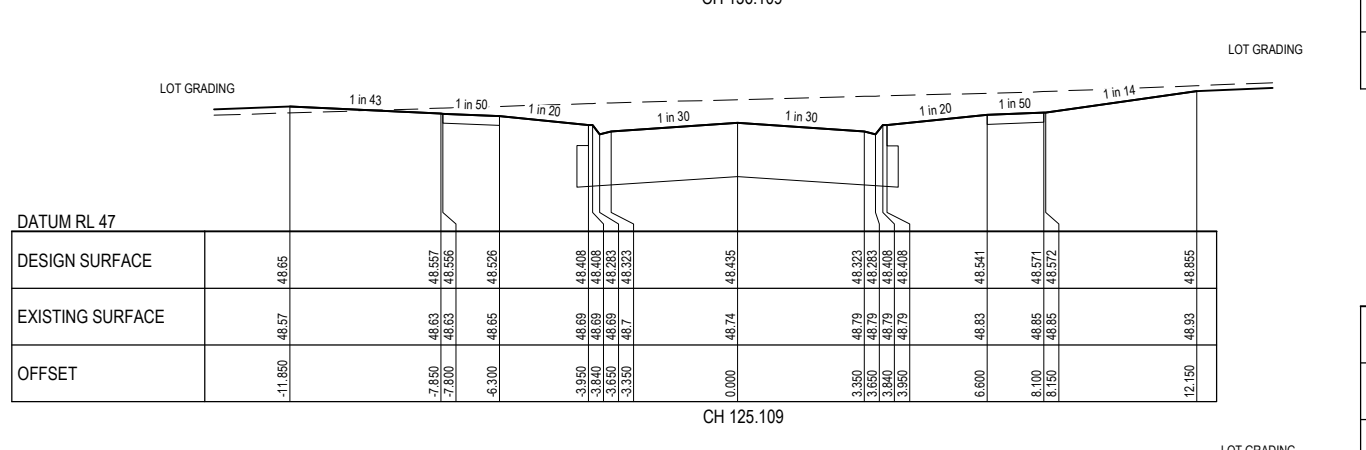
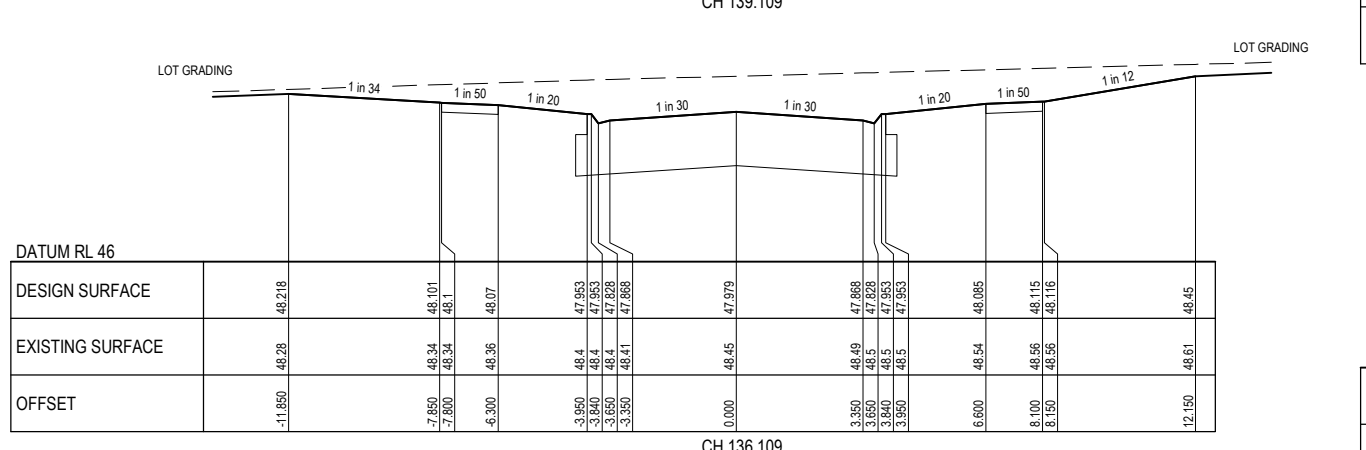
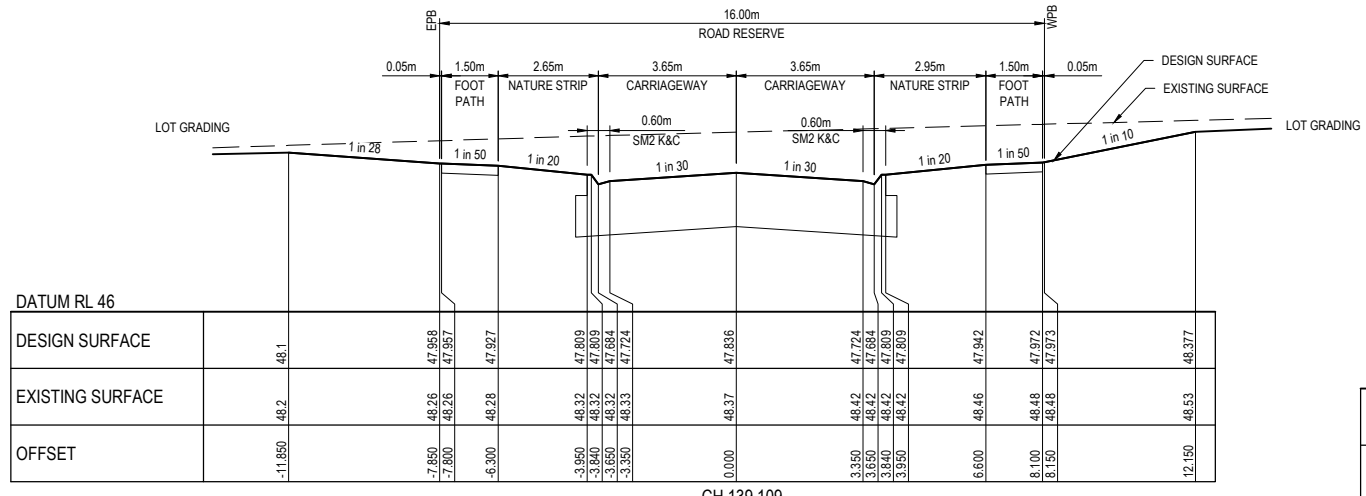
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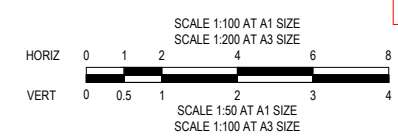
DESIGNED: LOD AUTHORITY: JOY DRAFTED: WGO
CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-117-126

CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
ROAD CROSS SECTIONS
SHEET 1 OF 10

SCALE	1:100 H, 1:50 V @ A1
VERSION	0
SHEET	18 OF 47
DRAWING No.	01177-04-E-117



CLEARFELL STREET



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VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

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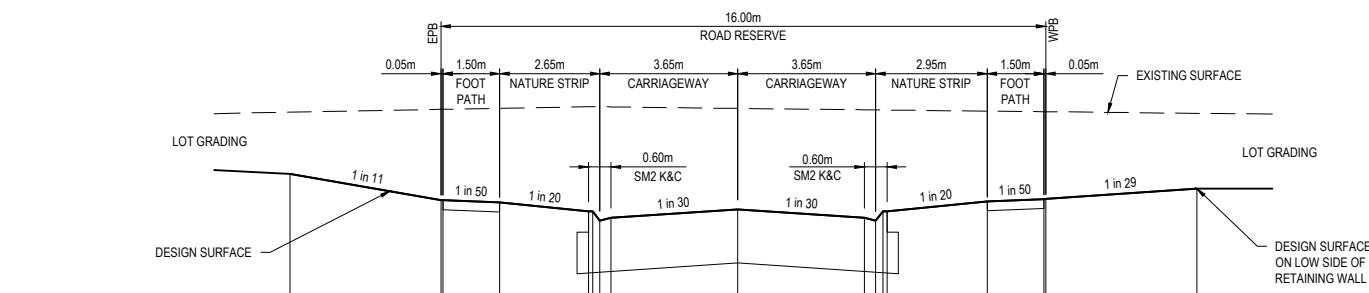


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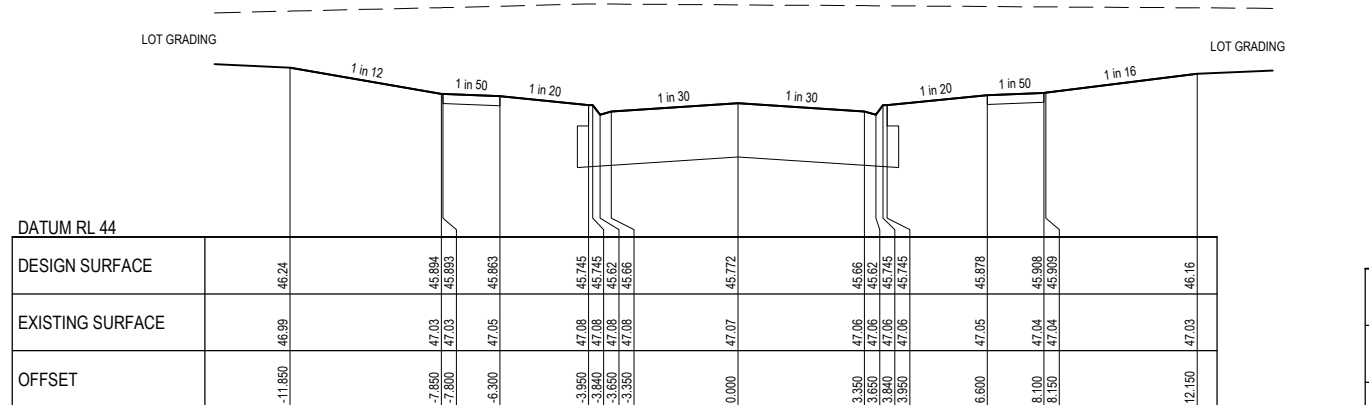
CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
ROAD CROSS SECTIONS
SHEET 2 OF 10

SCALE	1:100 H, 1:50 V @ A1
VERSION	0
SHEET	19 OF 47
DRAWING No.	01177-04-E-118



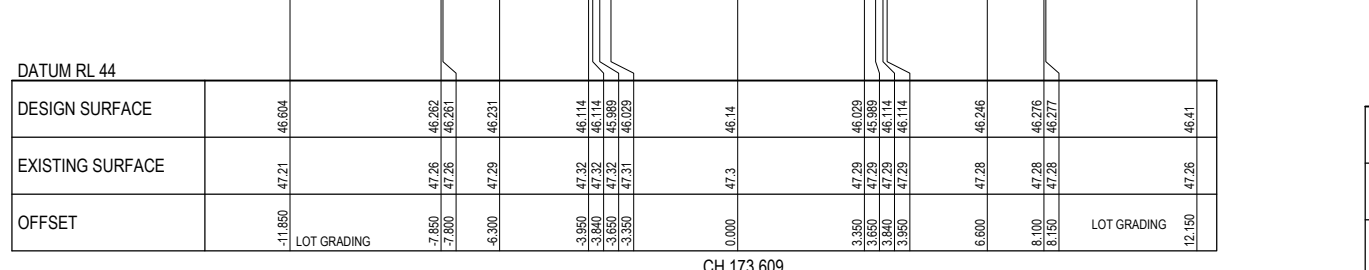
DATUM RL 44	
DESIGN SURFACE	45.996
EXISTING SURFACE	46.81
OFFSET	-11.850

CH 186.109



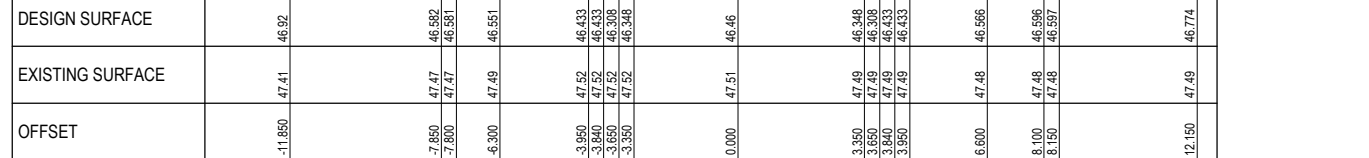
DATUM RL 44	
DESIGN SURFACE	46.24
EXISTING SURFACE	46.99
OFFSET	-11.850

CH 181.109



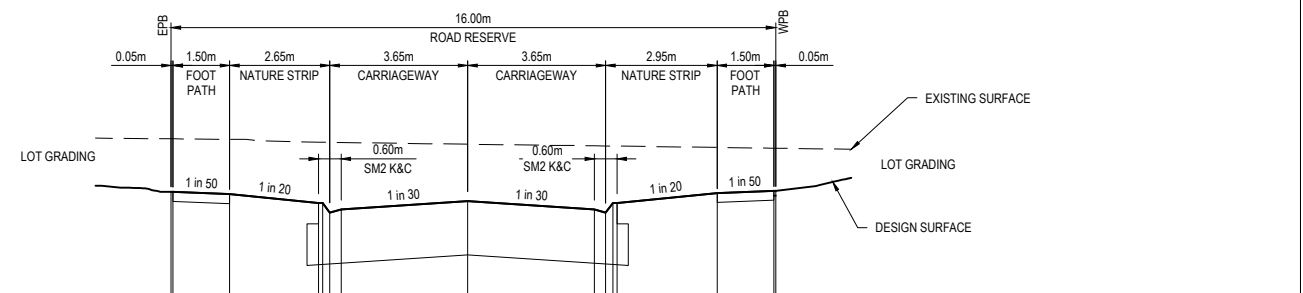
DATUM RL 44	
DESIGN SURFACE	46.604
EXISTING SURFACE	47.21
OFFSET	-11.850

CH 173.609



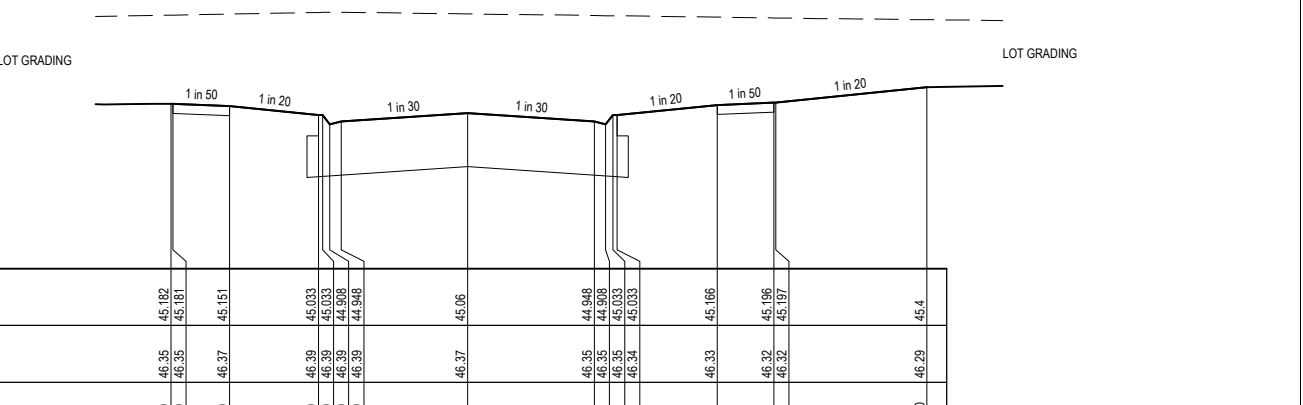
DATUM RL 45	
DESIGN SURFACE	46.92
EXISTING SURFACE	47.41
OFFSET	-11.850

CH 167.109



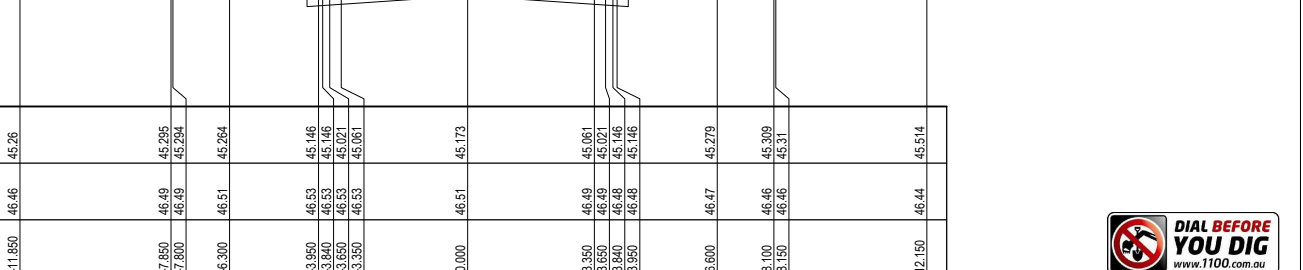
DATUM RL 43	
DESIGN SURFACE	44.909
EXISTING SURFACE	45.61
OFFSET	-7.850

CH 214.867



DATUM RL 43	
DESIGN SURFACE	45.182
EXISTING SURFACE	46.35
OFFSET	-7.850

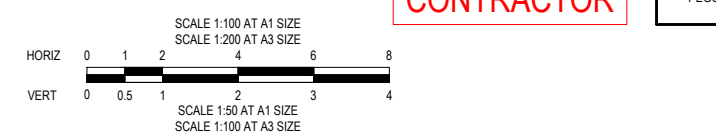
CH 196.609



DATUM RL 43	
DESIGN SURFACE	45.26
EXISTING SURFACE	46.46
OFFSET	-11.850

CH 193.609

CLEARFELL STREET



CONTRACTOR

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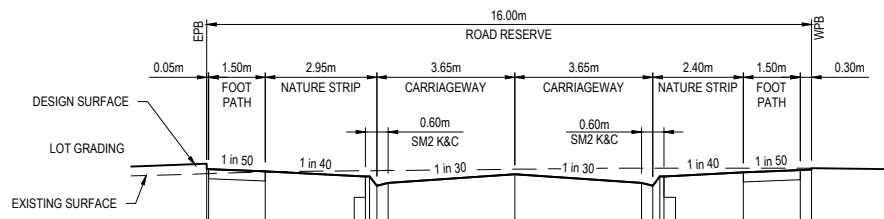
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DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
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CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

ROAD CROSS SECTIONS
SHEET 3 OF 10

SCALE 1:100 H, 1:50 V @ A1
VERSION 0
SHEET 20 OF 47
DRAWING No. 01177-04-E-119

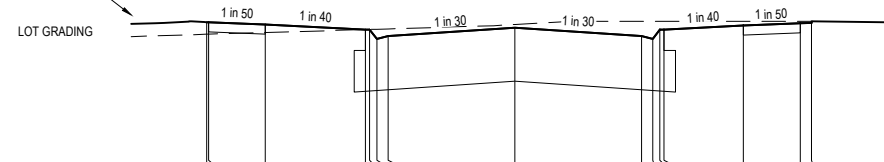


DATUM RL 49

OFFSET	EXISTING SURFACE	DESIGN SURFACE
-8.150	50.43	50.488
-8.100	50.43	50.486
-6.600	50.45	50.456
3.950	50.46	50.30
3.840	50.47	50.30
3.650	50.47	50.265
3.350	50.47	50.305
0.000	50.48	50.417
3.950	50.5	50.305
3.850	50.5	50.265
3.650	50.5	50.30
6.050	50.5	50.443
7.550	50.5	50.473
7.850	50.48	50.48

CH 99.850

MATCHES INTO RESERVE FOOTPATH DESIGN

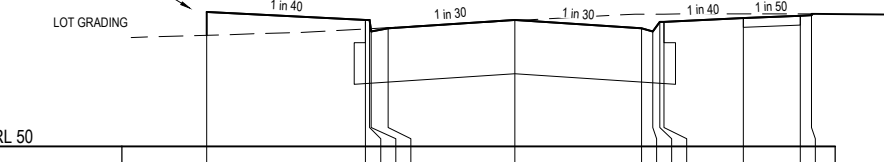


DATUM RL 49

OFFSET	EXISTING SURFACE	DESIGN SURFACE
-8.150	50.92	51.077
-8.100	50.92	51.076
-6.600	50.94	51.046
3.950	50.98	50.98
3.840	50.98	50.98
3.650	50.98	50.865
3.350	50.99	50.895
0.000	51.05	51.006
3.950	51.09	50.895
3.850	51.09	50.865
3.650	51.09	50.98
6.050	51.09	51.032
7.550	51.09	51.062
7.850	51.09	51.07

CH 78.800

MATCHES INTO RESERVE FOOTPATH DESIGN

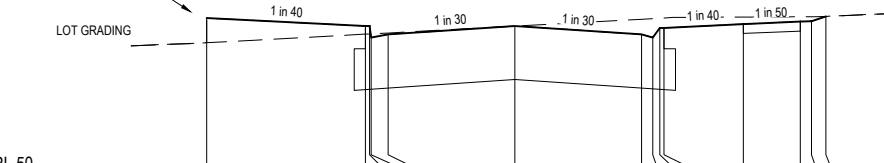


DATUM RL 50

OFFSET	EXISTING SURFACE	DESIGN SURFACE
-8.150	51.47	51.775
3.950	51.55	51.67
3.840	51.56	51.67
3.650	51.56	51.52
3.350	51.57	51.56
0.000	51.66	51.671
3.950	51.75	51.56
3.850	51.75	51.52
3.650	51.75	51.643
6.050	51.75	51.697
7.550	51.75	51.727
7.850	51.75	51.735

CH 55.050

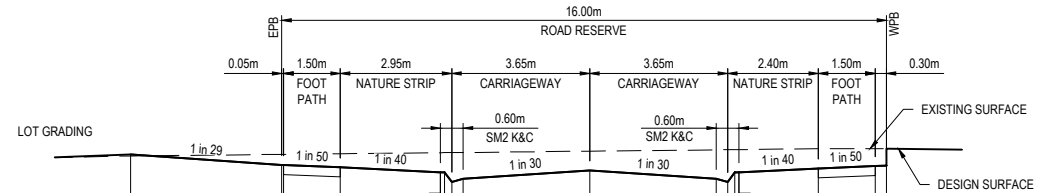
MATCHES INTO RESERVE FOOTPATH DESIGN



DATUM RL 50

OFFSET	EXISTING SURFACE	DESIGN SURFACE
-8.150	51.73	52.054
3.950	51.84	51.640
3.840	51.84	51.640
3.650	51.85	51.799
3.350	51.86	51.839
0.000	51.95	51.951
3.950	52.04	51.839
3.850	52.06	51.799
3.650	52.06	51.924
6.050	52.07	51.977
7.550	52.07	52.007
7.850	52.07	52.014
8.232	52.08	52.078

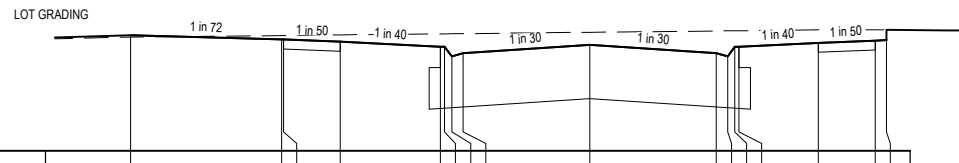
CH 43.851



DATUM RL 47

OFFSET	EXISTING SURFACE	DESIGN SURFACE
-12.150	49.26	49.26
-8.150	49.28	49.141
-8.100	49.28	49.14
-6.600	49.29	49.11
3.950	49.3	49.043
3.840	49.3	49.043
3.650	49.3	49.043
3.350	49.31	49.058
0.000	49.32	49.07
3.350	49.34	49.988
3.650	49.34	49.918
3.840	49.34	49.918
3.950	49.34	49.043
6.050	49.36	49.096
7.550	49.36	49.126
7.850	49.36	49.133

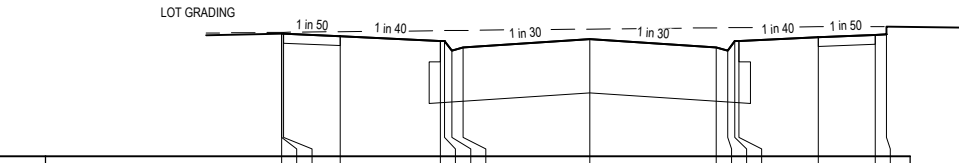
CH 140.350



DATUM RL 48

OFFSET	EXISTING SURFACE	DESIGN SURFACE
-12.150	49.5	49.53
-8.150	49.53	49.474
-8.100	49.53	49.473
-6.600	49.53	49.443
3.950	49.55	49.377
3.840	49.55	49.377
3.650	49.55	49.262
3.350	49.55	49.292
0.000	49.57	49.403
3.350	49.59	49.292
3.650	49.59	49.262
3.840	49.59	49.377
3.950	49.59	49.377
6.050	49.6	49.429
7.550	49.6	49.459
7.850	49.6	49.467

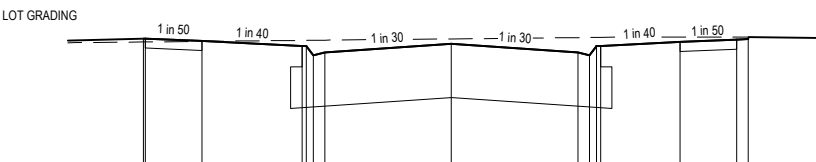
CH 131.850



DATUM RL 48

OFFSET	EXISTING SURFACE	DESIGN SURFACE
-8.150	49.64	49.622
-8.100	49.64	49.622
-8.100	49.64	49.621
-6.600	49.65	49.591
3.950	49.66	49.524
3.840	49.66	49.524
3.650	49.66	49.369
3.350	49.67	49.339
0.000	49.68	49.551
3.350	49.7	49.339
3.650	49.7	49.369
3.840	49.7	49.524
3.950	49.7	49.524
6.050	49.71	49.577
7.550	49.71	49.607
7.850	49.71	49.614

CH 127.850



DATUM RL 48

OFFSET	EXISTING SURFACE	DESIGN SURFACE
-8.150	50.04	50.088
-8.100	50.04	50.087
-6.600	50.05	50.057
3.950	50.06	49.99
3.840	50.06	49.99
3.650	50.07	49.865
3.350	50.07	49.865
0.000	50.08	50.017
3.950	50.1	49.905
3.840	50.1	49.905
3.650	50.1	49.89
3.350	50.1	49.89
6.050	50.11	50.043
7.550	50.11	50.073
7.850	50.11	50.08

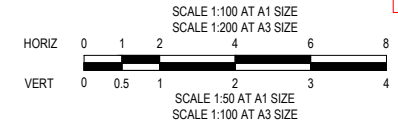
CH 113.850



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CONTRACTOR



EVERFAIR CRESCENT

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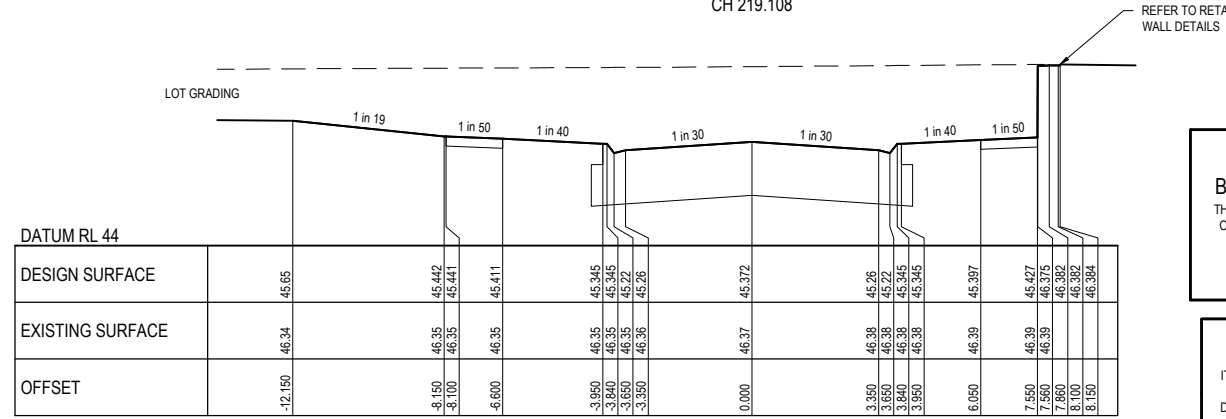
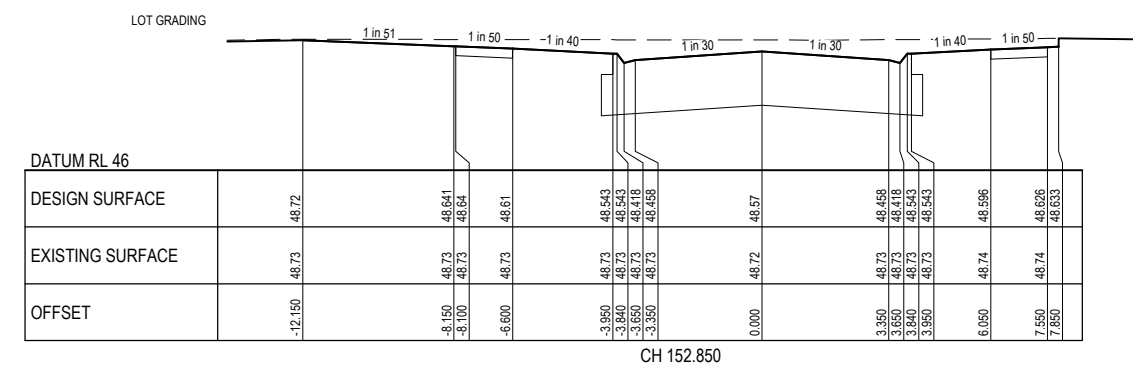
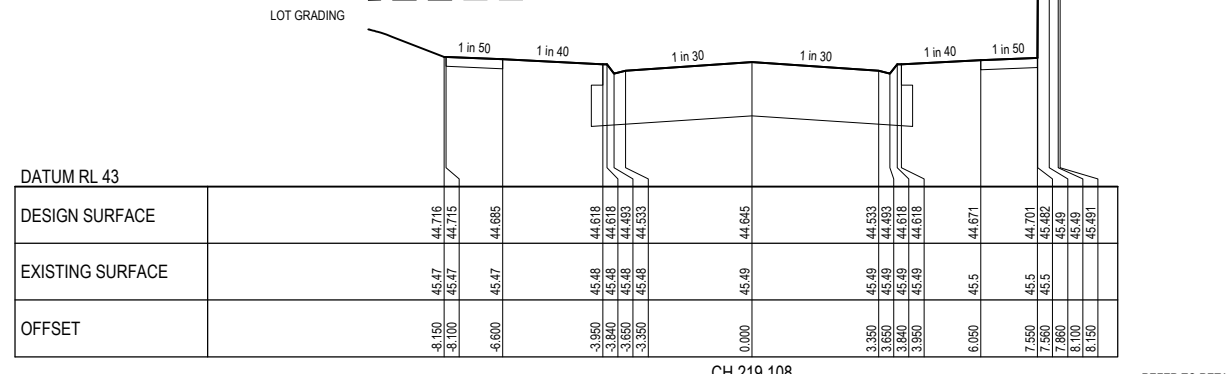
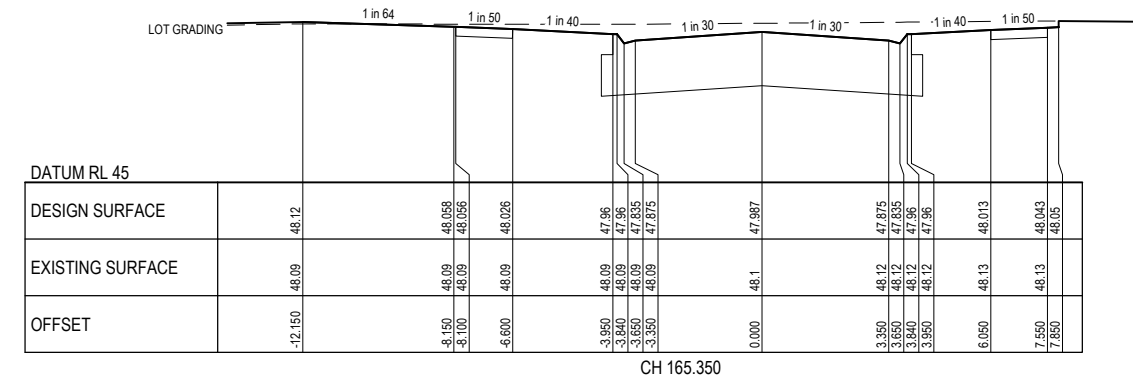
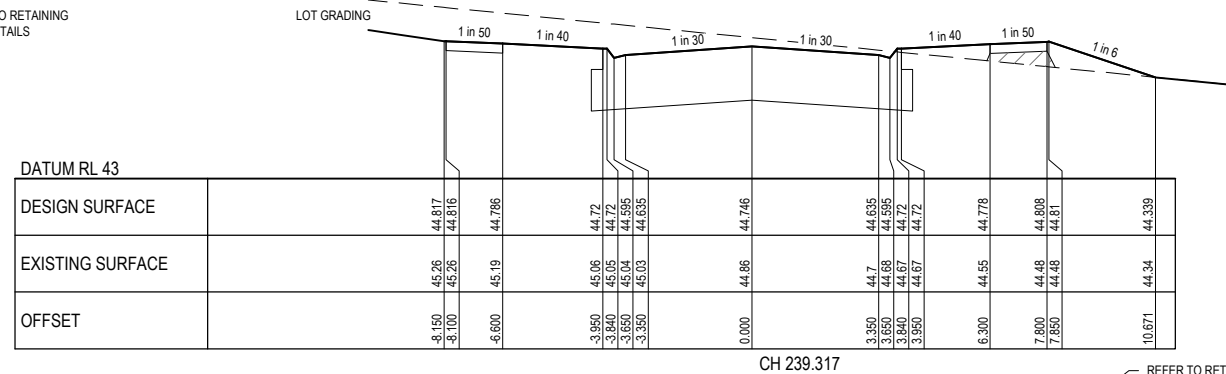
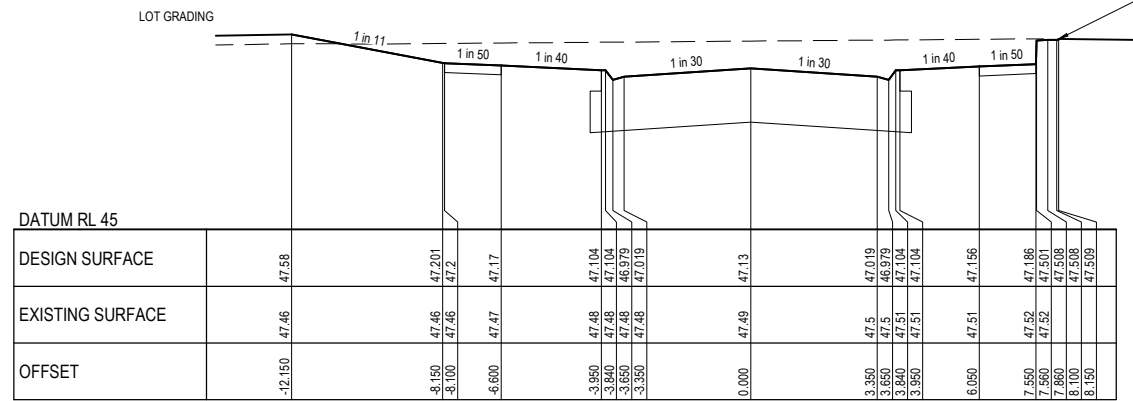
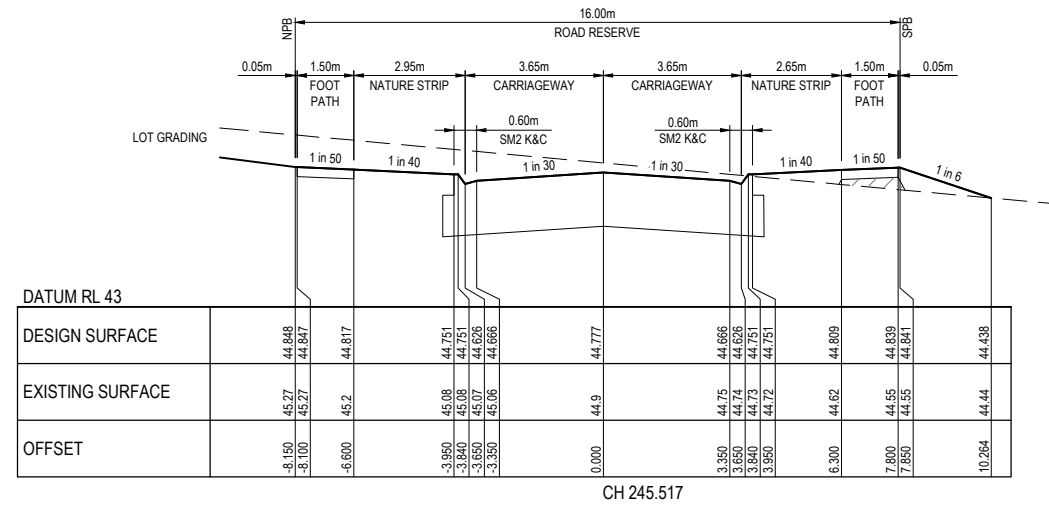
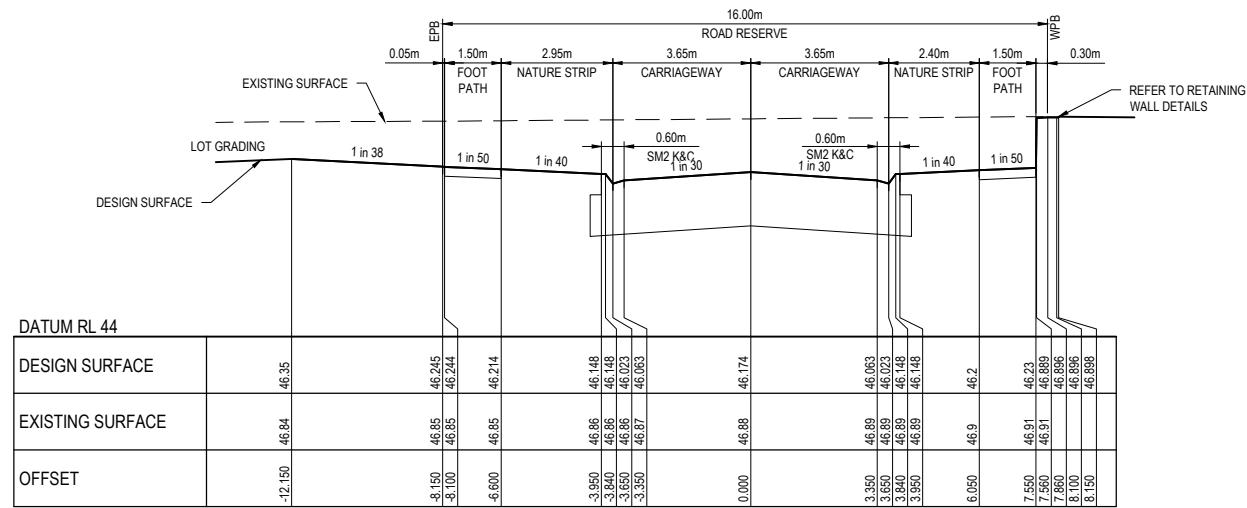
CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

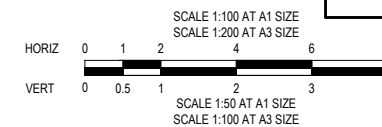
DESIGNED: LOD	AUTHORISED: JOY	DRAFTED: WGO
CHECKED: MIO	AUTH. DATE: 18/09/2020	CAD REF: 01177-04-E-117-126

ROAD CROSS SECTIONS
 SHEET 4 OF 10

SCALE	1:100 H, 1:50 V @ A1
VERSION	0
SHEET	21 OF 47
DRAWING No.	01177-04-E-120



EVERFAIR CRESCENT



WARNING
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PRELIMINARY
NOT FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

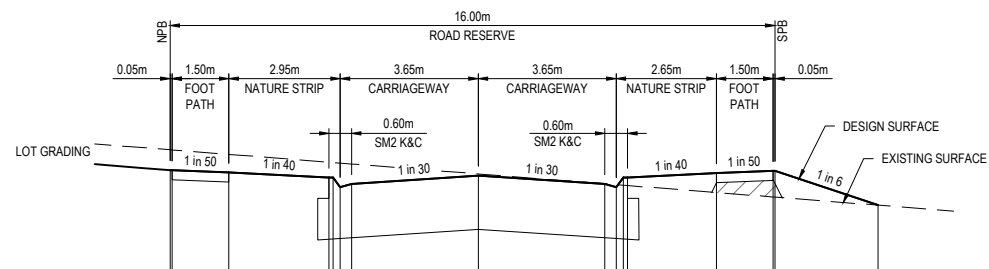
/// DENOTES STRUCTURAL FILL COMPACTED TO LEVEL 1 REQUIREMENTS.
NOTE:
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DESIGNED: LOD	AUTHORISED: JOY	DRAFTED: WGO
CHECKED: MIO	AUTH. DATE: 18/09/2020	CAD REF: 01177-04-E-117-126

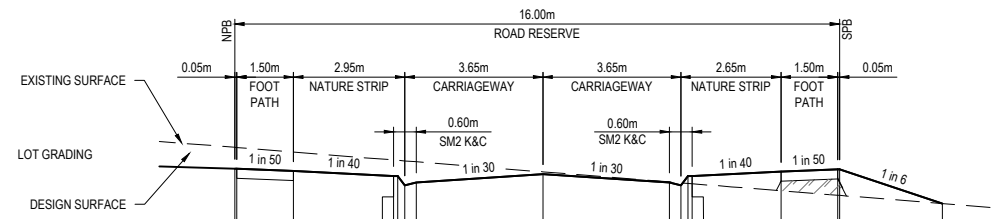
CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
ROAD CROSS SECTIONS
SHEET 5 OF 10

SCALE	1:100 H, 1:50 V @ A1
VERSION	0
SHEET	22 OF 47
DRAWING No.	01177-04-E-121



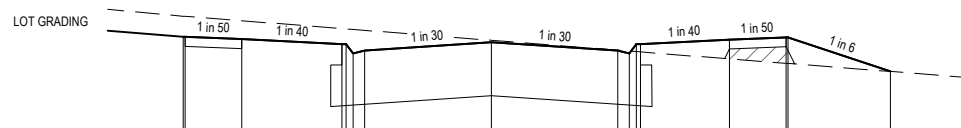
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DESIGN SURFACE											
EXISTING SURFACE											
OFFSET											

CH 265.517



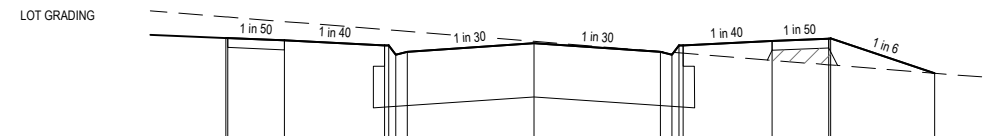
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CH 281.717



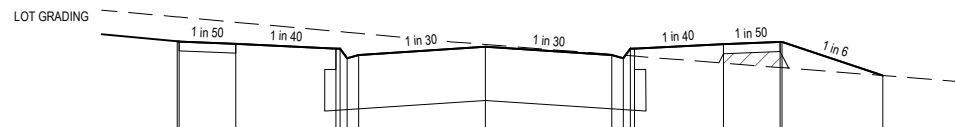
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CH 263.517



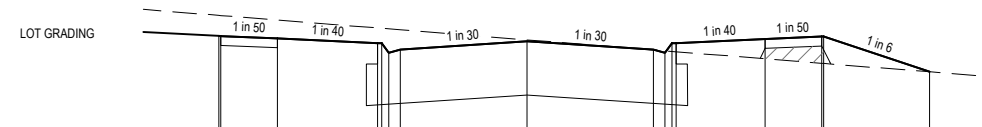
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CH 279.517



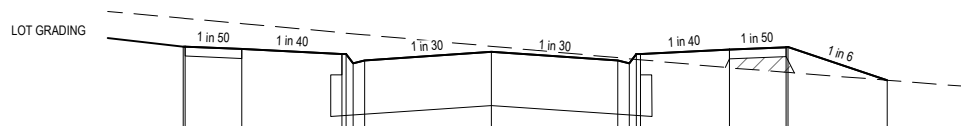
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CH 257.517



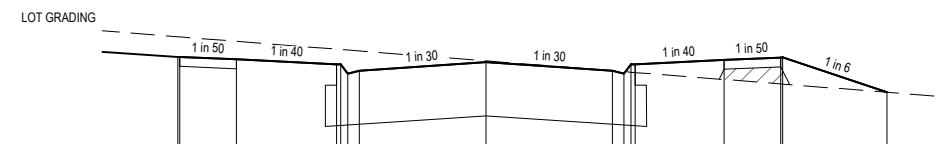
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OFFSET											

CH 275.517



DATUM RL 43											
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EXISTING SURFACE											
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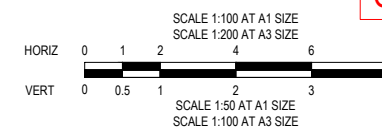
CH 251.517



DATUM RL 43											
DESIGN SURFACE											
EXISTING SURFACE											
OFFSET											

CH 269.517

EVERFAIR CRESCENT



CONTRACTOR

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CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

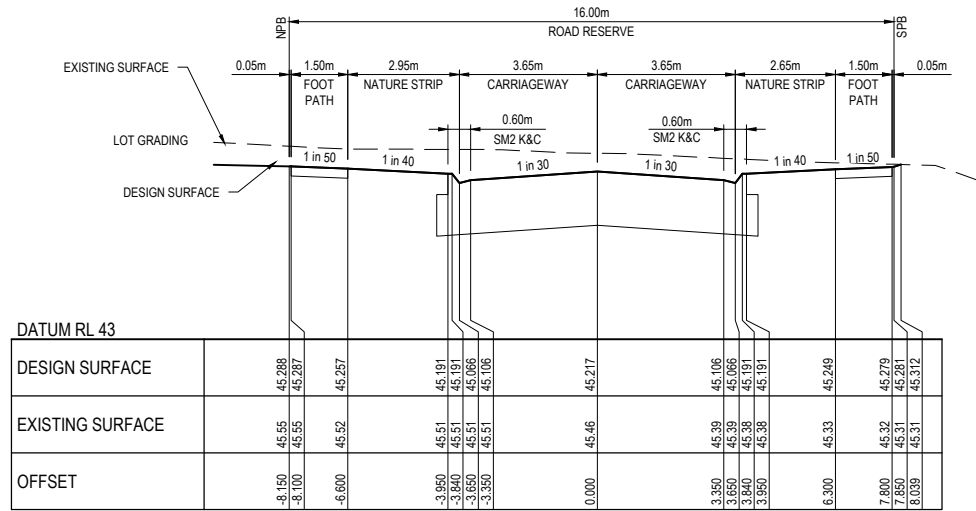
/// DENOTES STRUCTURAL FILL COMPACTED TO LEVEL 1 REQUIREMENTS.
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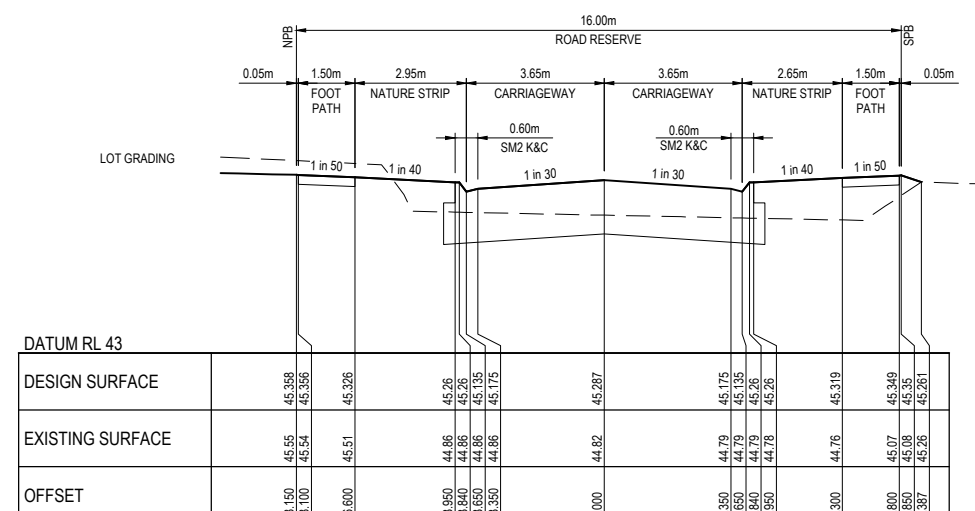
DESIGNED: LOD	AUTHORISED: JOY	DRAFTED: WGO
CHECKED: MIO	AUTH. DATE: 18/09/2020	CAD REF: 01177-04-E-117-126

CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
ROAD CROSS SECTIONS
SHEET 6 OF 10

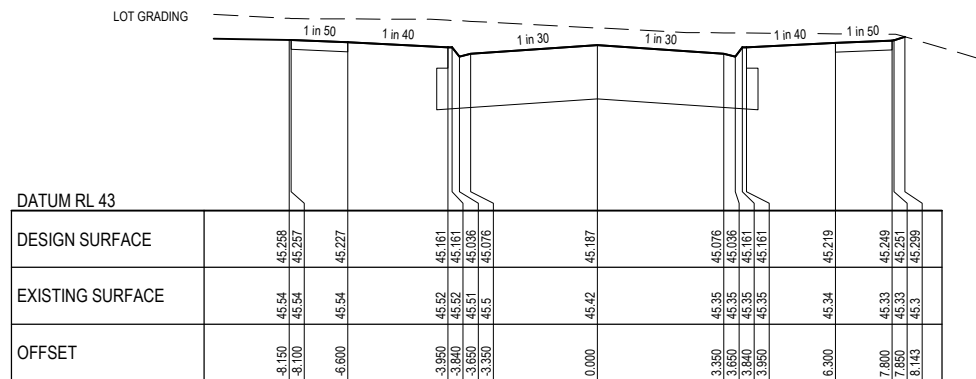
SCALE	1:100 H, 1:50 V @ A1
VERSION	0
SHEET	23 OF 47
DRAWING No.	01177-04-E-122



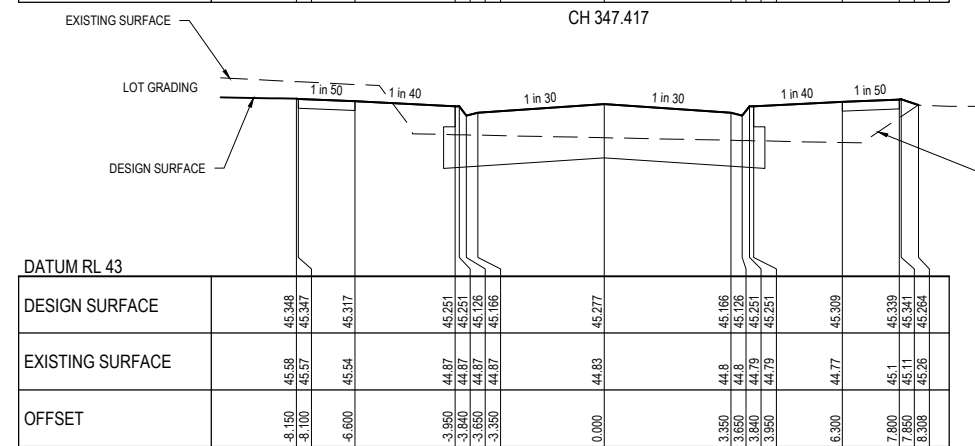
CH 333.517



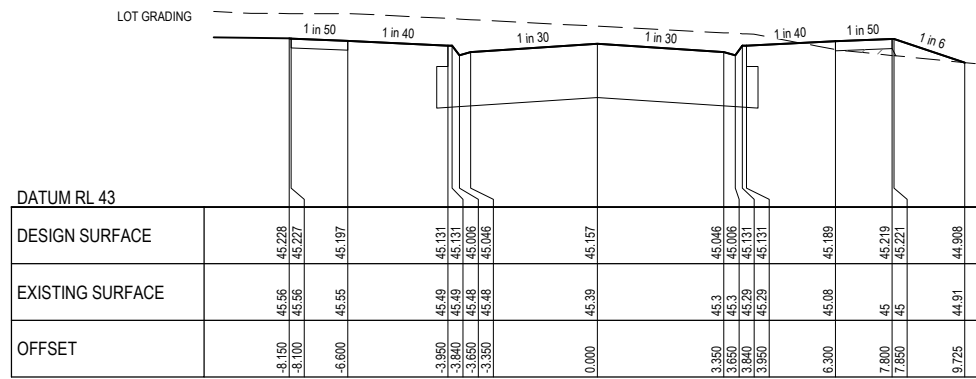
CH 347.417



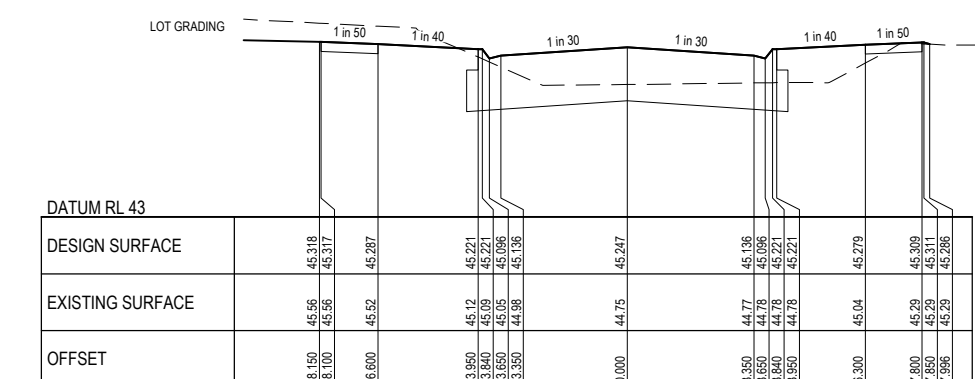
CH 327.517



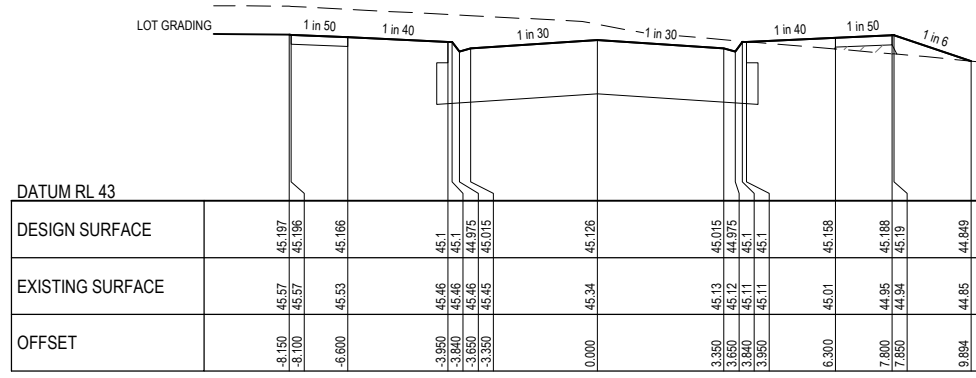
CH 345.517



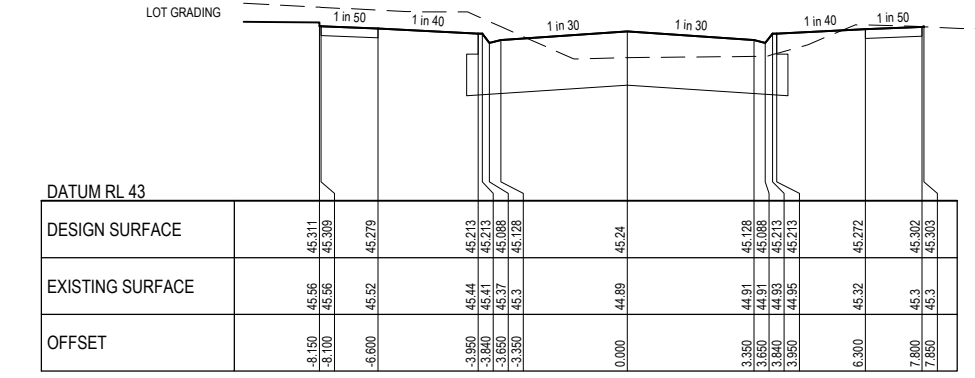
CH 321.517



CH 339.517



CH 315.317

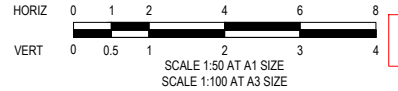


CH 338.017



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CONTRACTOR CONSTRUCTION ISSUED FOR CONSTRUCTION

EVERFAIR CRESCENT

VER	DATE	REVISION	APPD.
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hillstowe
 by AVID Property Group

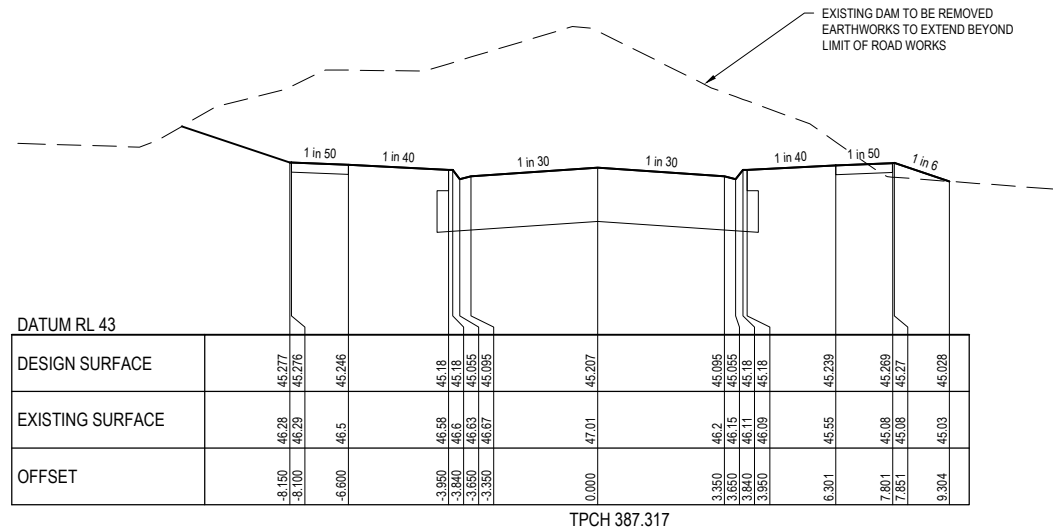
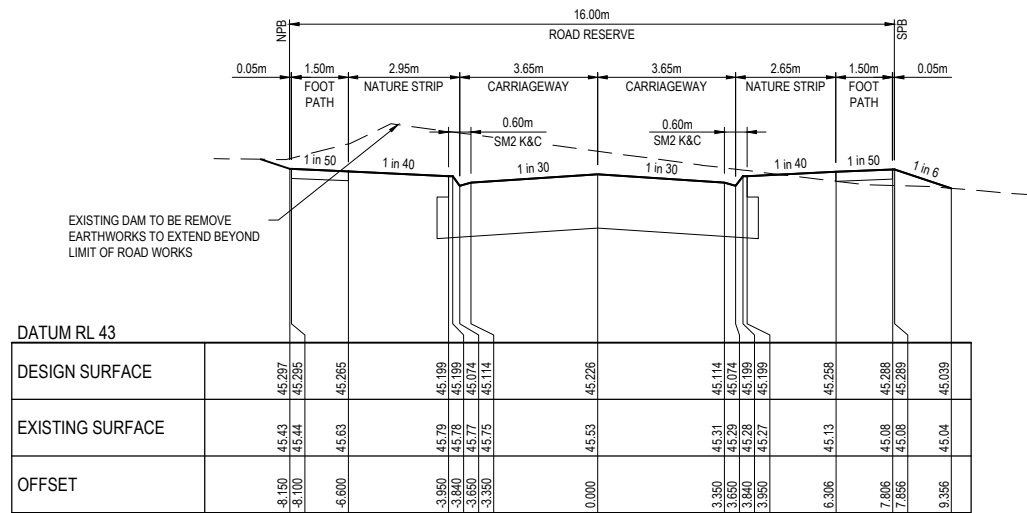
TAYLORS
 Urban Development | Infrastructure
 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9591 2600 | Web: taylors.com.au

DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
 CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-117-126

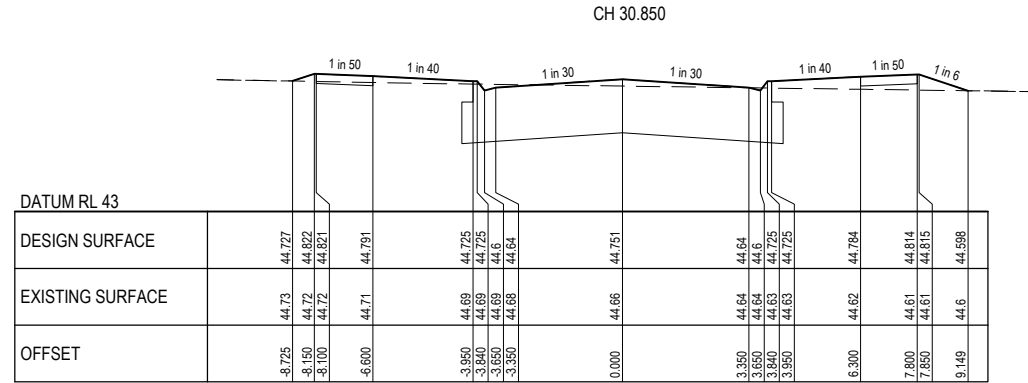
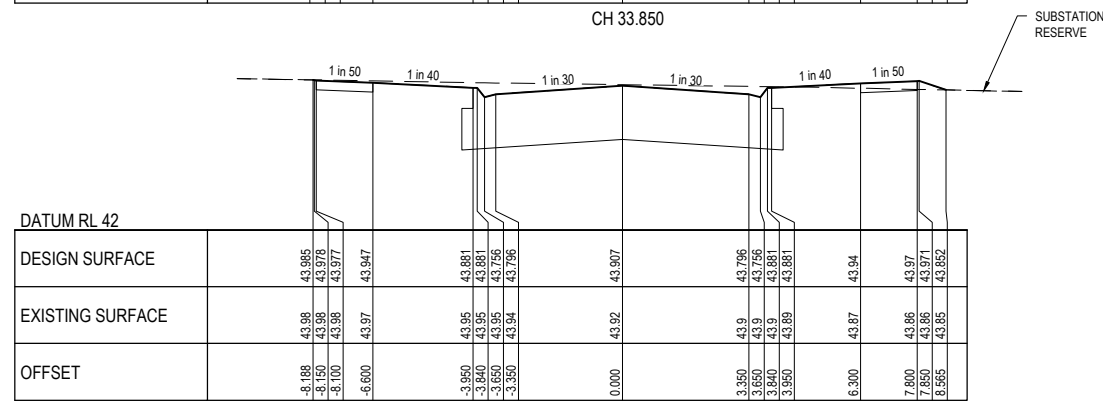
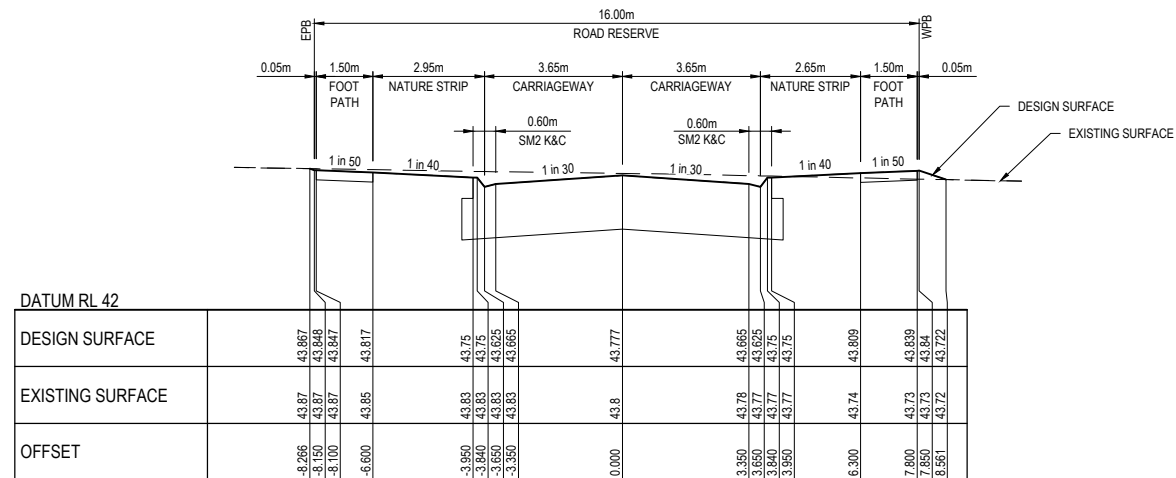
CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

ROAD CROSS SECTIONS
 SHEET 7 OF 10

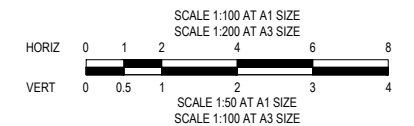
SCALE 1:100 H, 1:50 V @ A1
 VERSION 0
 SHEET 24 OF 47
 DRAWING No. 01177-04-E-123



EVERFAIR CRESCENT



KIELDER STREET



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CONTRACTOR

CONSTRUCTION
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VER	DATE	REVISION	APPD.
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hillstowe
by AVID Property Group

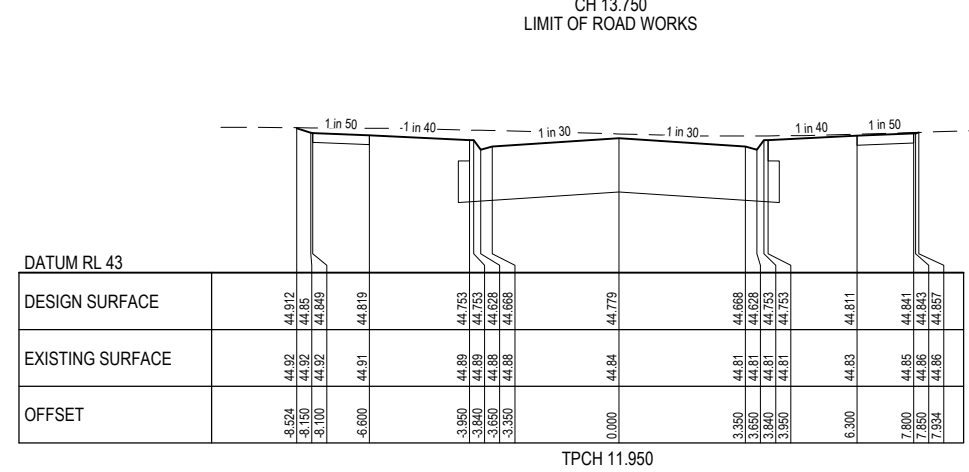
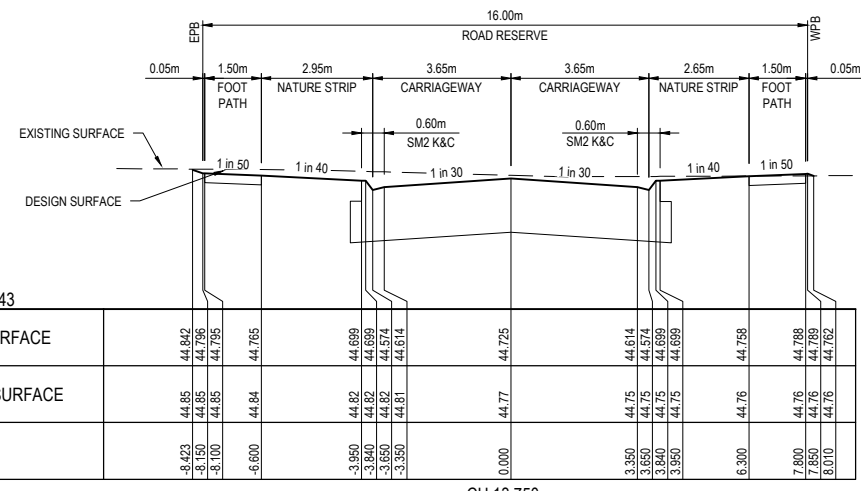
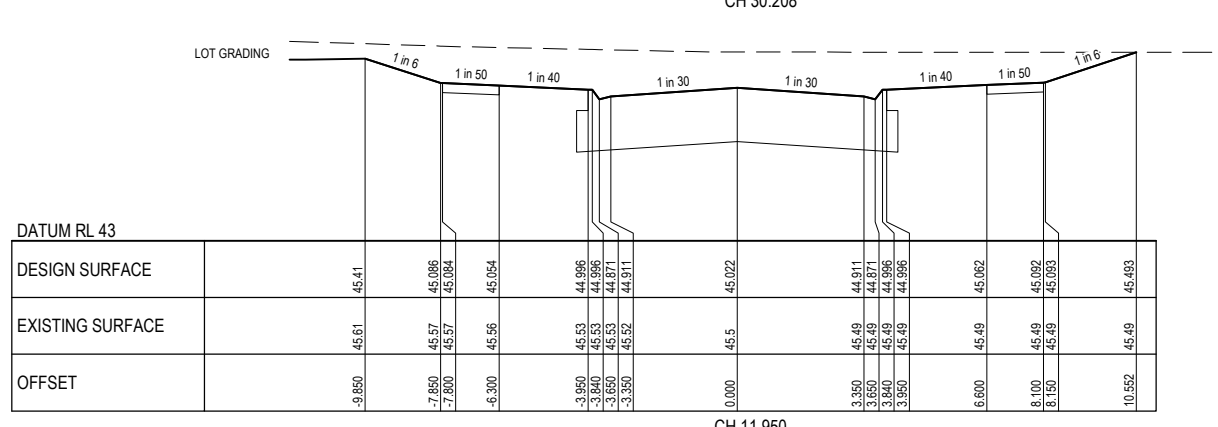
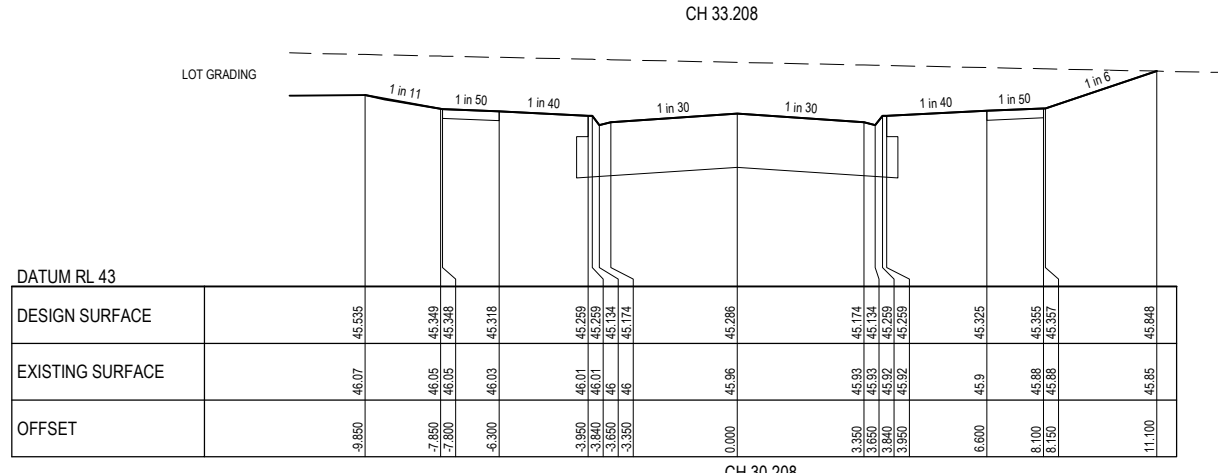
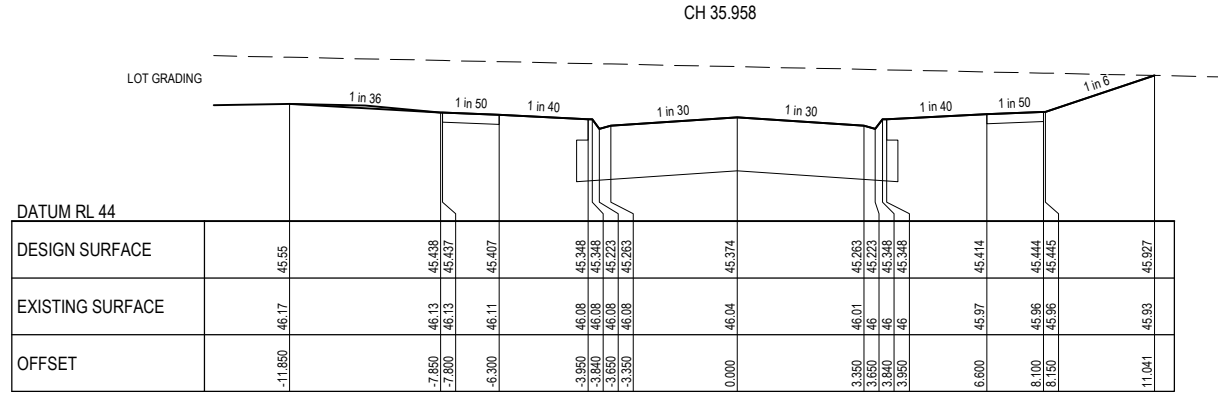
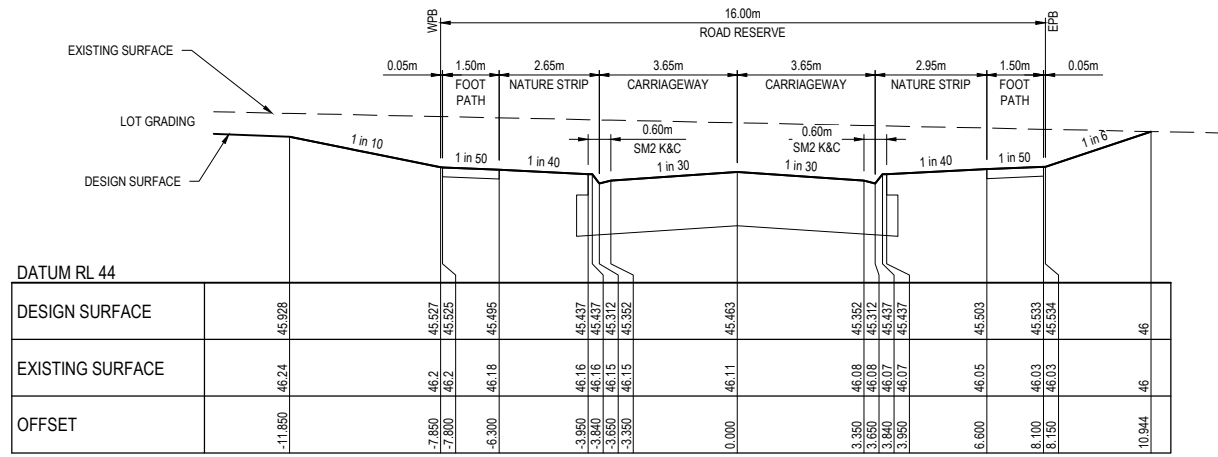
TAYLORS
Urban Development | Infrastructure
8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2800 | Web: taylors.com.au

DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
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CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

ROAD CROSS SECTIONS
SHEET 8 OF 10

SCALE 1:100 H, 1:50 V @ A1
VERSION 0
SHEET 25 OF 47
DRAWING No. 01177-04-E-124



GONDWANNA STREET

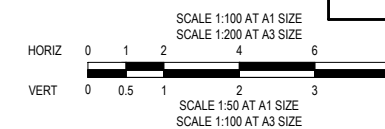
SAWMILLER STREET



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CONTRACTOR



CONSTRUCTION
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CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

SCALE 1:100 H, 1:50 V @ A1

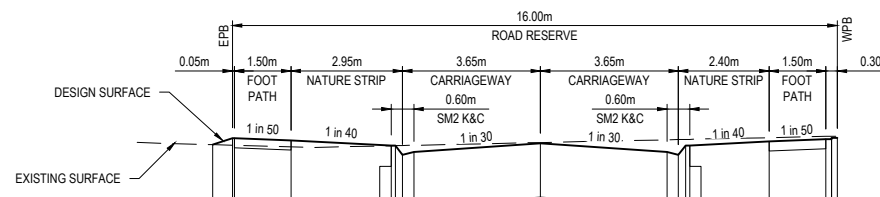
VERSION 0
 SHEET 26 OF 47
 DRAWING No.

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

DESIGNED:	LOD	AUTHORISED:	JOY	DRAFTED:	WGO
CHECKED:	MIO	AUTH. DATE:	18/09/2020	CAD REF:	01177-04-E-117-126

ROAD CROSS SECTIONS
 SHEET 9 OF 10

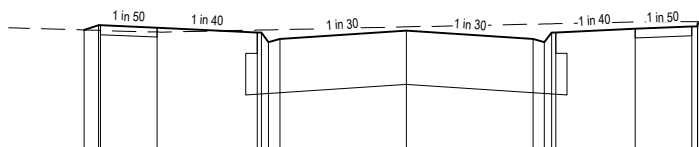
01177-04-E-125



DATUM RL 42

DESIGN SURFACE		44.141	44.228	44.197	44.13	44.13	44.13	44.157	44.045	44.183	44.213	44.213	44.23
EXISTING SURFACE		44.14	44.13	44.11	44.13	44.13	44.13	44.17	44.21	44.23	44.25	44.25	44.23
OFFSET		-8.668	-8.150	-6.600	3.950	3.940	3.950	0.000	3.950	6.050	7.550	7.700	7.850

CH 15.850
LIMIT OF ROAD WORKS

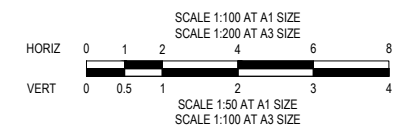


DATUM RL 42

DESIGN SURFACE		44.228	44.291	44.26	44.184	44.184	44.184	44.22	44.109	44.246	44.276	44.318	44.318
EXISTING SURFACE		44.23	44.22	44.2	44.23	44.23	44.23	44.27	44.31	44.33	44.34	44.34	44.318
OFFSET		-8.528	-8.150	-6.600	3.950	3.940	3.950	0.000	3.950	6.050	7.550	7.700	7.850

TPCH 14.040

TARKINE STREET



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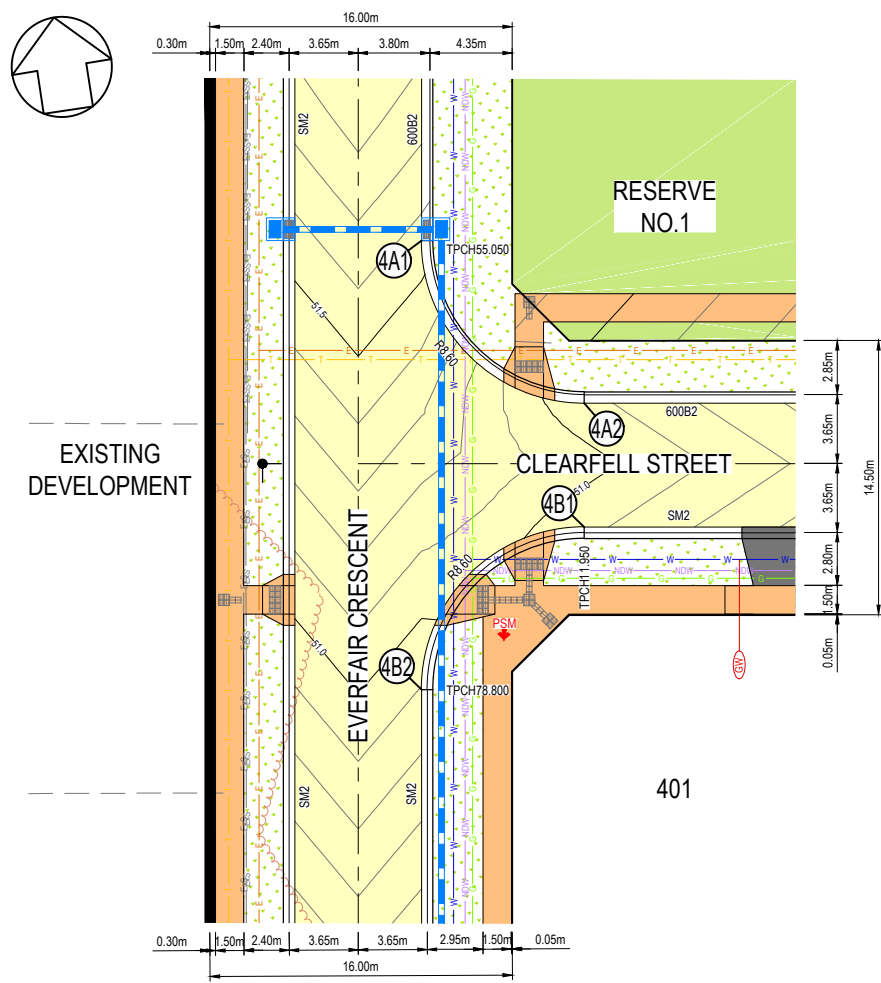


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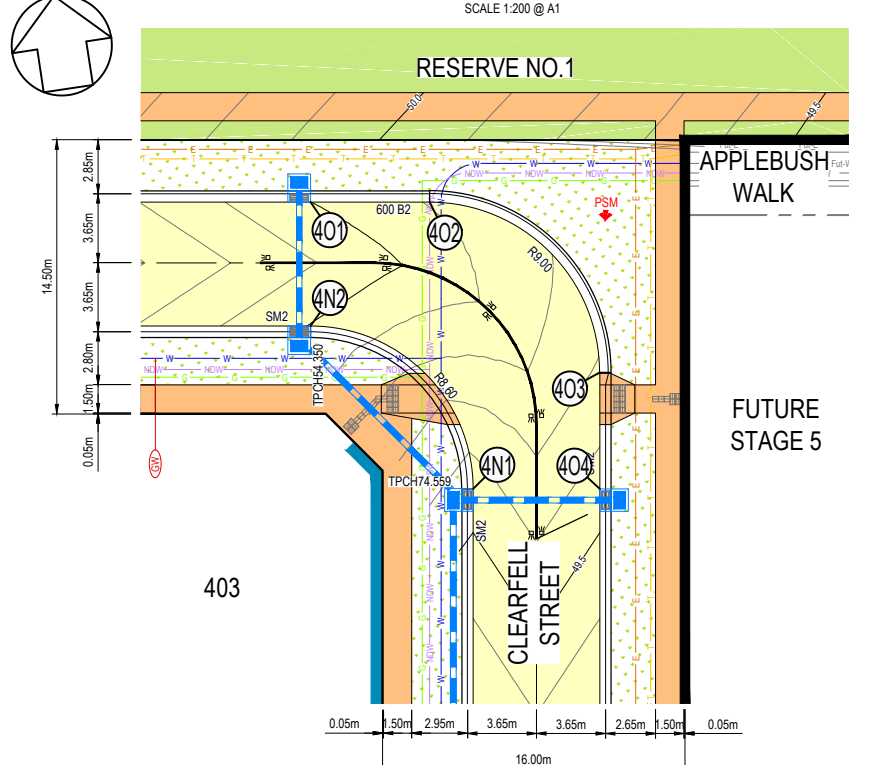
DESIGNED: LOD	AUTHORISED: JOY	DRAFTED: WGO
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CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
ROAD CROSS SECTIONS
SHEET 10 OF 10

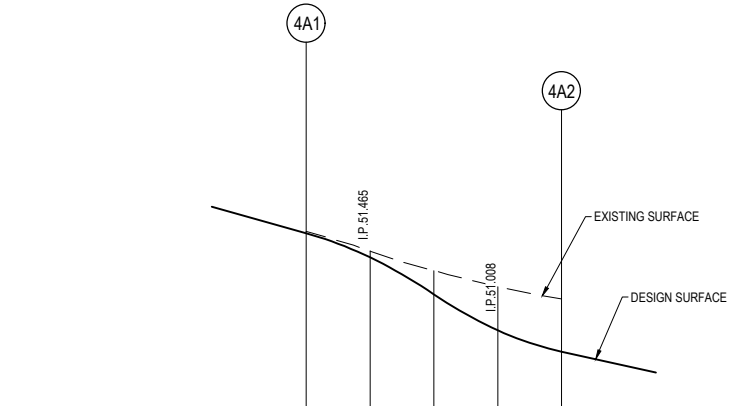
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VERSION	0
SHEET	27 OF 47
DRAWING No.	01177-04-E-126



EVERFAIR CRESCENT AND CLEARFELL STREET INTERSECTION LAYOUT
SCALE 1:200 @ A1

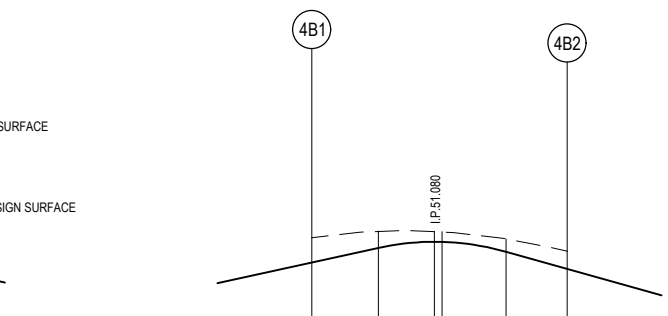


CLEARFELL STREET INTERSECTION LAYOUT
SCALE 1:200 @ A1



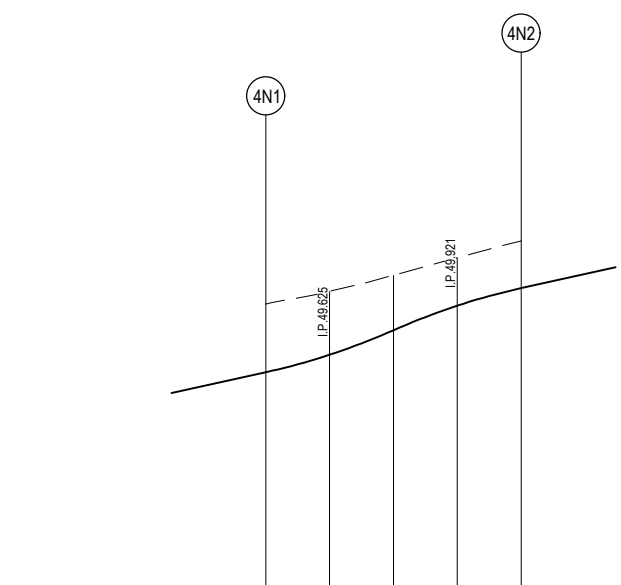
LIP PROFILE 4A
HORI 1 in 200
VERT 1 in 20

	4A1	4A2
DESIGN SURFACE	51.560	51.431
EXISTING SURFACE	51.570	51.467
CHAINAGE	0.000	3.377



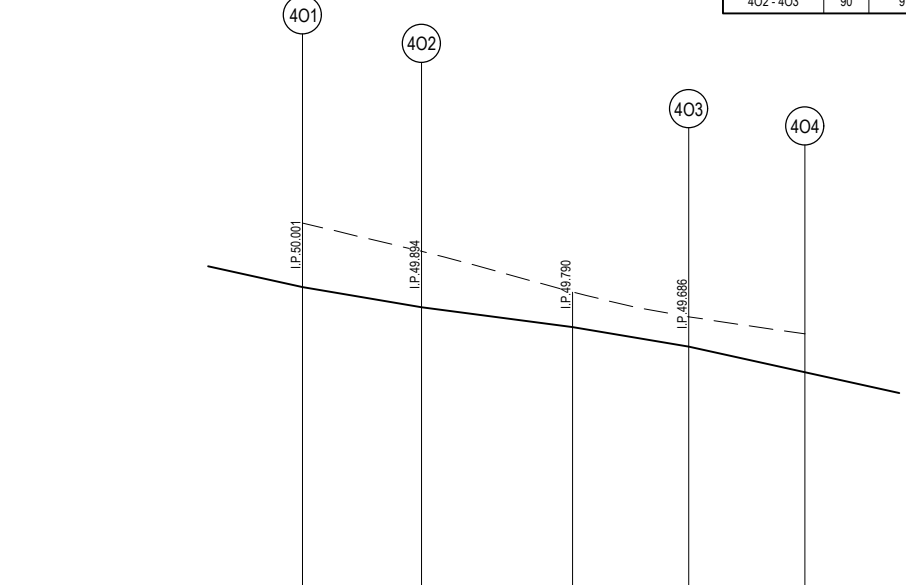
LIP PROFILE 4B
HORI 1 in 200
VERT 1 in 20

	4B1	4B2
DESIGN SURFACE	51.928	51.006
EXISTING SURFACE	51.060	51.095
CHAINAGE	0.000	3.512



LIP PROFILE 4N
HORI 1 in 200
VERT 1 in 20

	4N1	4N2
DESIGN SURFACE	49.551	49.844
EXISTING SURFACE	49.912	49.978
CHAINAGE	0.000	3.377



LIP PROFILE 4O
HORI 1 in 200
VERT 1 in 20

	4O1	4O2	4O3	4O4
DESIGN SURFACE	50.001	49.884	49.750	49.688
EXISTING SURFACE	50.340	50.190	49.975	49.844
CHAINAGE	0.000	6.300	14.285	20.437

ALIGNMENT 4A

POINT NO	EASTING	NORTHING	RL
4A1	360267.067	5786789.134	51.560
4A2	360274.236	5786779.309	50.933

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4A1 - 4A2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	51.236

ALIGNMENT 4B

POINT NO	EASTING	NORTHING	RL
4B1	360273.224	5786772.838	50.928
4B2	360263.400	5786765.669	50.895

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4B1 - 4B2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	51.038

ALIGNMENT 4N

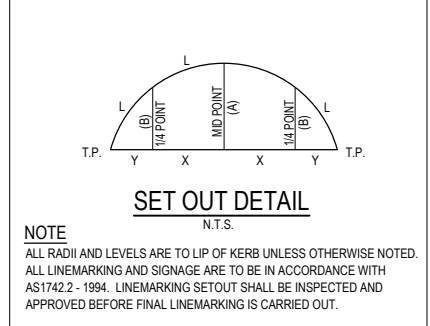
POINT NO	EASTING	NORTHING	RL
4N1	360322.285	5786756.465	49.551
4N2	360315.116	5786766.290	49.996

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4N1 - 4N2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	49.773

ALIGNMENT 4O

POINT NO	EASTING	NORTHING	RL
4O1	360316.127	5786772.762	50.001
4O2	360322.352	5786771.789	49.894
4O3	360329.854	5786761.507	49.686
4O4	360328.904	5786755.431	49.551

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4O2 - 4O3	90	9	14.137	2.636	1.951	3.444	2.92	3.534	49.802

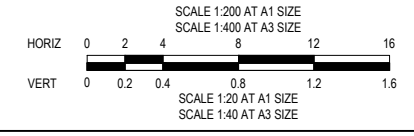


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CONTRACTOR

CONSTRUCTION
ISSUED FOR CONSTRUCTION



VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

PROPOSED NEW PAVEMENT	PROPOSED GAS MAIN	STREET NAME SIGN
PROPOSED CONCRETE PATH	PROPOSED WATER MAIN	PROPOSED GAS & WATER CONDUIT
PROPOSED CROSSOVER	PROPOSED NON-DRINKING WATER	P.S.M.
PROPOSED LANDSCAPING	PROPOSED ELECTRICITY CABLE	TGSI (TACTILE GROUND SURFACE INDICATORS)
RESERVE	PROPOSED TELCO CABLE	PROPOSED ROCK MASS WALL
	PROPOSED DEAN, PIT & PROPERTY BUILT	
	EXISTING SEWER MAIN & M.H.	

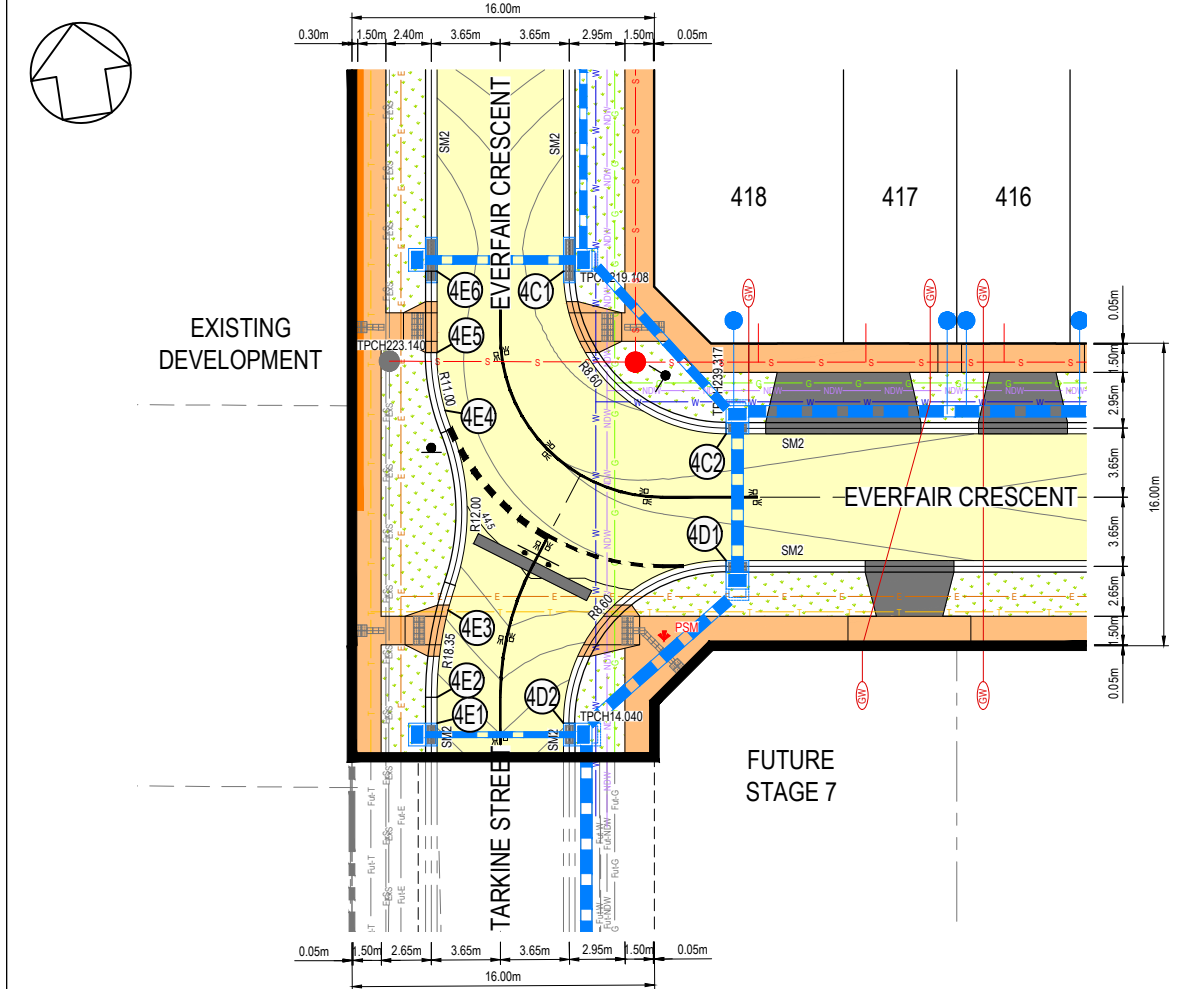
LEGEND

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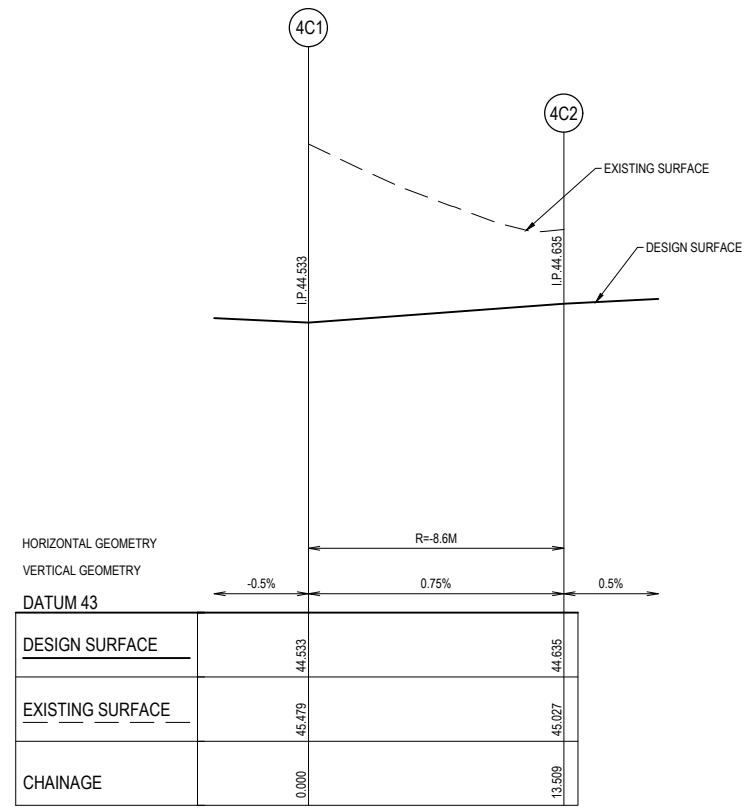
TAYLORS
Urban Development | Infrastructure
8 / 270 Ferris Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2600 | Web: taylors.com.au

DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-127-130

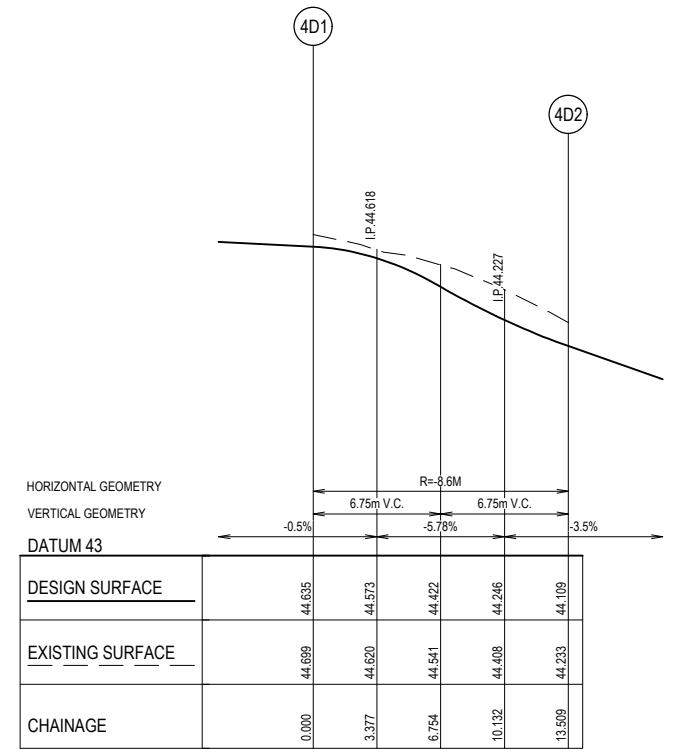
CARDINIA SHIRE COUNCIL		SCALE
415 PRINCES HIGHWAY, OFFICER VIC 3809 HILLSTOWE ESTATE, STAGE 4		1:200 H, 1:20 V @ A1
INTERSECTION DETAILS AND KERB LIP PROFILES		VERSION 0
SHEET 1 OF 4		SHEET 28 OF 47
		DRAWING No. 01177-04-E-127



EVERFAIR CRESCENT AND TARKINE STREET INTERSECTION LAYOUT
SCALE 1:200 @ A1



LIP PROFILE 4C
HORI 1 in 200
VERT 1 in 20

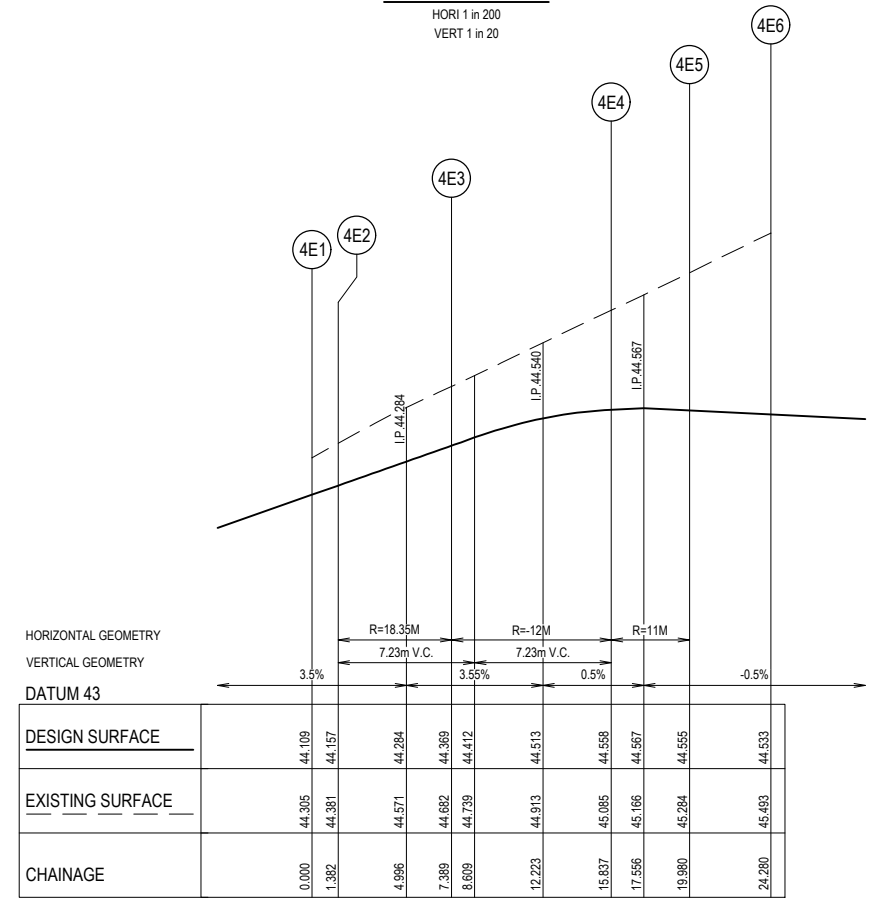


LIP PROFILE 4D
HORI 1 in 200
VERT 1 in 20

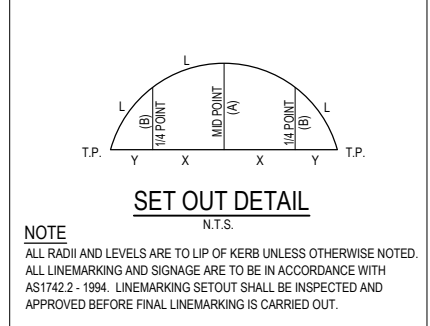
ALIGNMENT 4C									
POINT NO	EASTING	NORTHING	RL				MID POINT RL		
4C1	360241.733	5786627.044	44.533						
4C2	360248.902	5786617.219	44.635						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4C1 - 4C2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.584

ALIGNMENT 4D									
POINT NO	EASTING	NORTHING	RL				MID POINT RL		
4D1	360247.867	5786610.600	44.635						
4D2	360238.042	5786603.431	44.109						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4D1 - 4D2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.422

ALIGNMENT 4E									
POINT NO	EASTING	NORTHING	RL				MID POINT RL		
4E1	360231.422	5786604.466	44.109						
4E2	360231.636	5786605.831	44.157						
4E3	360233.51	5786611.51	44.369						
4E4	360234.586	5786619.714	44.558						
4E5	360234.449	5786623.83	44.555						
4E6	360235.113	5786628.079	44.533						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4E2 - 4E3	18.756	18.35	6.007	0.245	0.184	1.5	1.49	1.502	44.263
4E3 - 4E4	40.336	12	8.448	0.736	0.55	2.101	2.036	2.112	44.5
4E4 - 4E5	21.58	11	4.143	0.194	0.146	1.034	1.025	1.036	44.565



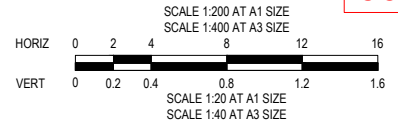
LIP PROFILE 4E
HORI 1 in 200
VERT 1 in 20



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PROPOSED CONCRETE PATH	PROPOSED WATER MAIN	PROPOSED GAS & WATER CONDUIT
PROPOSED CROSSOVER	PROPOSED NON-DRINKING WATER	P.S.M.
PROPOSED LANDSCAPING	PROPOSED ELECTRICITY CABLE	TGSI (TACTILE GROUND SURFACE INDICATORS)
EXISTING SEWER MAIN & M.H.	PROPOSED TELCO CABLE	PROPOSED RETAINING WALL
	PROPOSED SEWER MAIN & M.H.	
	PROPOSED DRAIN, PIT & PROPERTY INLET	

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8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2600 | Web: taylors.com.au

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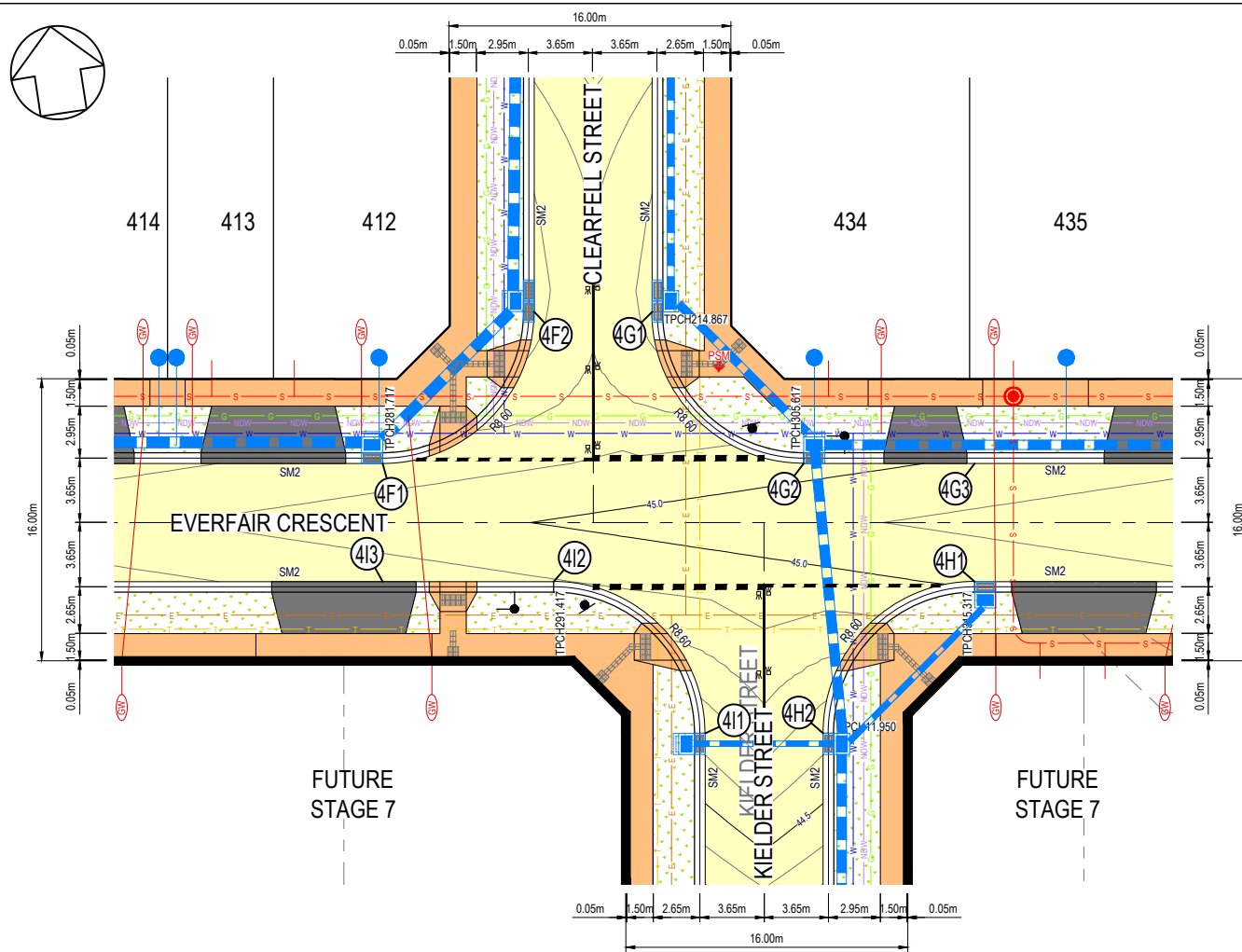
CARDINIA SHIRE COUNCIL

415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

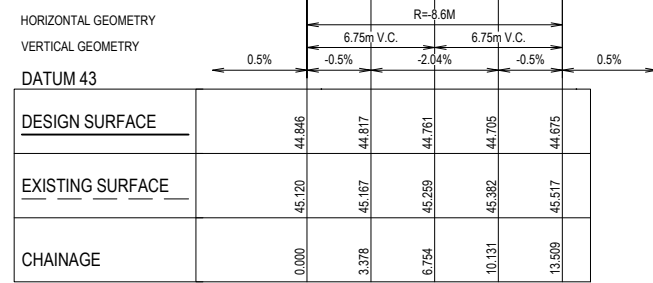
INTERSECTION DETAILS AND KERB LIP PROFILES
SHEET 2 OF 4

SCALE 1:200 H, 1:20 V @ A1

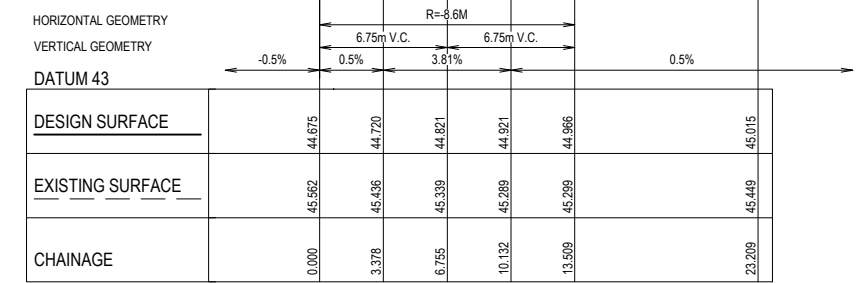
VERSION 0
SHEET 29 OF 47
DRAWING No. 01177-04-E-128



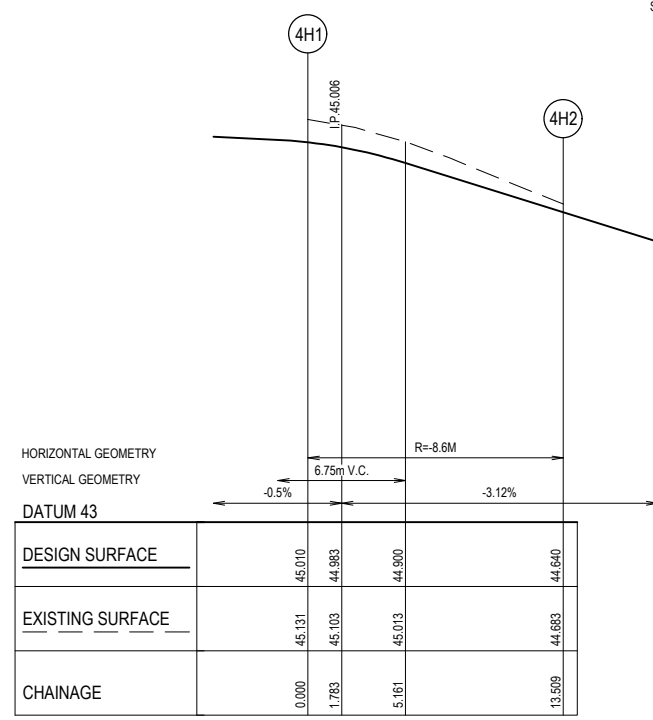
EVERFAIR CRESCENT, CLEARFELL STREET AND KIELDER STREET INTERSECTION LAYOUT
SCALE 1:200 @ A1



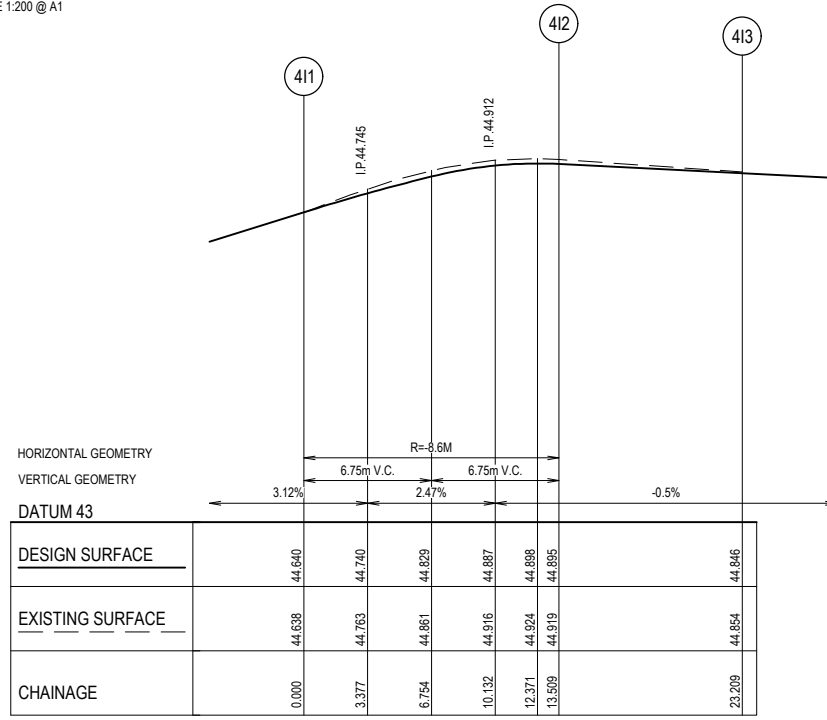
LIP PROFILE 4F
HORI 1 in 200
VERT 1 in 20



LIP PROFILE 4G
HORI 1 in 200
VERT 1 in 20

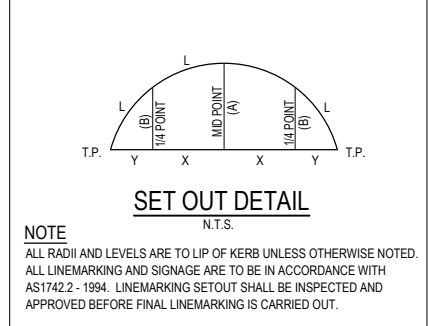


LIP PROFILE 4H
HORI 1 in 200
VERT 1 in 20



LIP PROFILE 4I
HORI 1 in 200
VERT 1 in 20

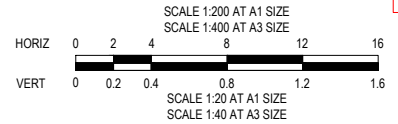
ALIGNMENT 4F									
POINT NO	EASTING	NORTHING	RL						
4F1	360290.793	5786610.672	44.846						
4F2	360300.618	5786617.841	44.675						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4F1-4F2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.761
ALIGNMENT 4G									
POINT NO	EASTING	NORTHING	RL						
4G1	360307.238	5786616.806	44.675						
4G2	360314.406	5786606.981	44.966						
4G3	360323.990	5786605.483	45.015						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4G1-4G2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.804
ALIGNMENT 4H									
POINT NO	EASTING	NORTHING	RL						
4H1	360322.955	5786598.864	45.010						
4H2	360313.130	5786591.695	44.840						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4H1-4H2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.851
ALIGNMENT 4I									
POINT NO	EASTING	NORTHING	RL						
4I1	360306.511	5786592.729	44.640						
4I2	360299.342	5786602.554	44.895						
4I3	360289.758	5786604.052	44.846						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4I1-4I2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.829



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CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

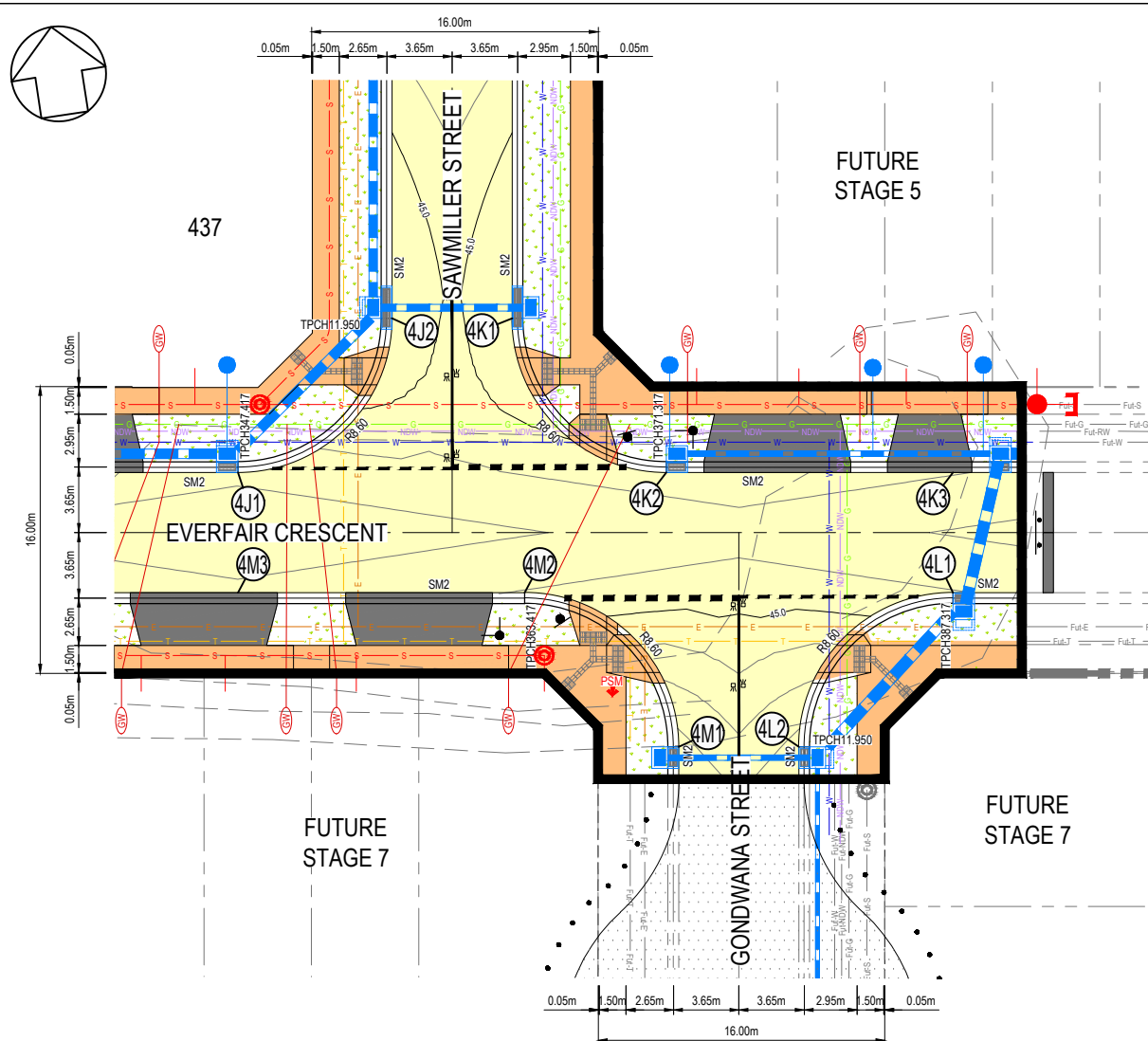
VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

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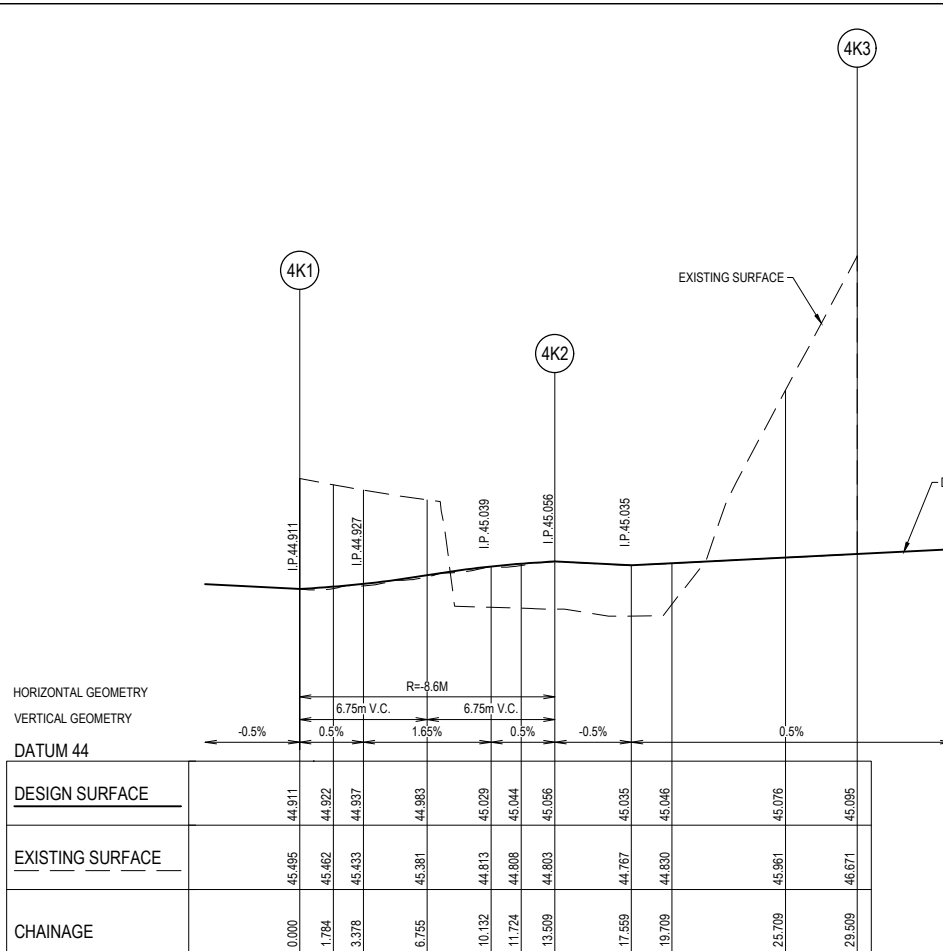
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Urban Development | Infrastructure
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Tel: 61 3 9591 2600 | Web: taylors.com.au

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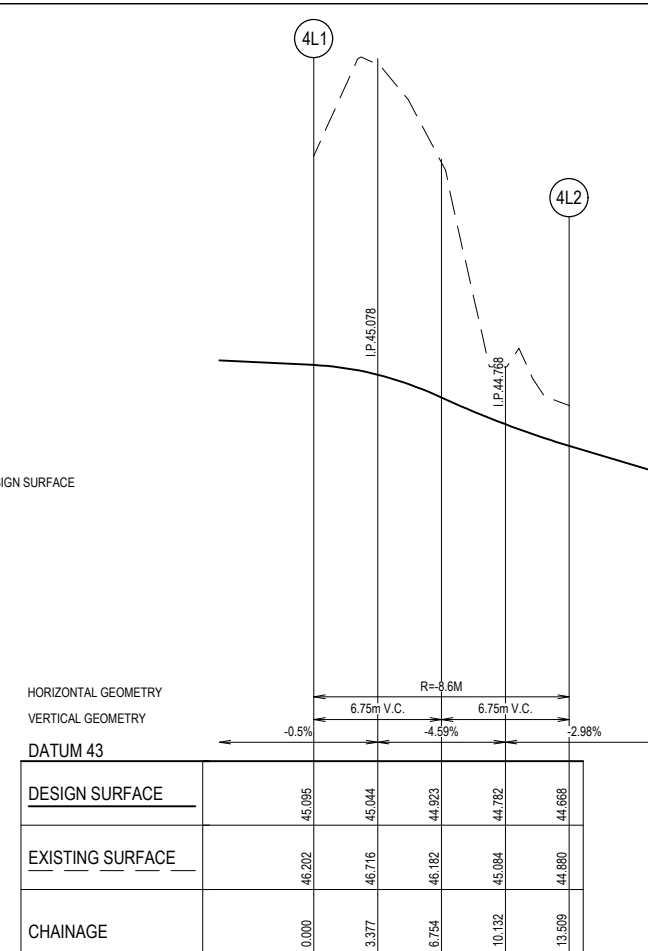
CARDINIA SHIRE COUNCIL		SCALE 1:200 H, 1:20 V @ A1
415 PRINCES HIGHWAY, OFFICER VIC 3809 HILLSTOWE ESTATE, STAGE 4		VERSION 0
INTERSECTION DETAILS AND KERB LIP PROFILES SHEET 3 OF 4		SHEET 30 OF 47
		DRAWING No. 01177-04-E-129



EVERFAIR CRESCENT, CLEARFELL STREET AND GONDWANA STREET INTERSECTION LAYOUT
SCALE 1:200 @ A1



LIP PROFILE 4K
HORI 1 in 200
VERT 1 in 20



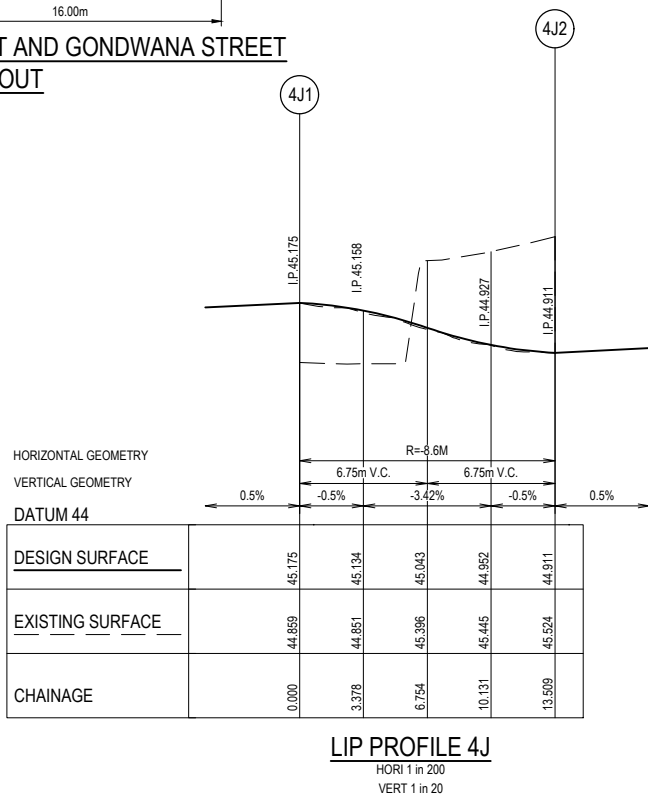
LIP PROFILE 4L
HORI 1 in 200
VERT 1 in 20

ALIGNMENT 4J									
POINT NO	EASTING	NORTHING	RL						
4J1	360355.705	5786600.526	45.175						
4J2	360365.530	5786607.695	44.911						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4J1 - 4J2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	45.043

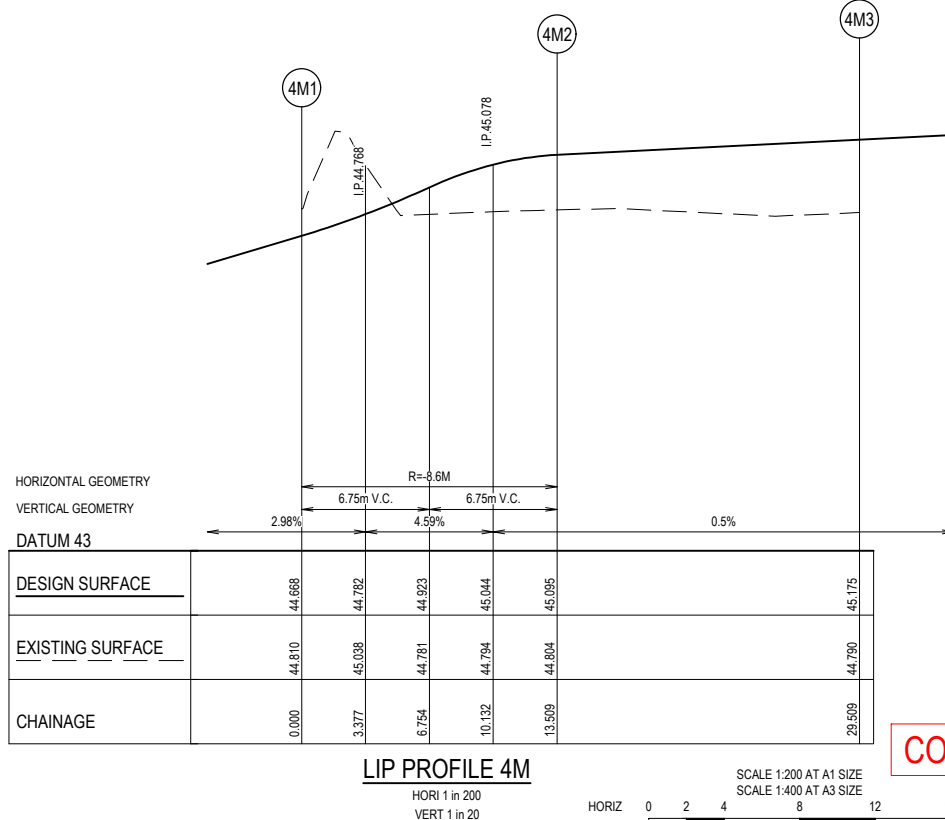
ALIGNMENT 4K									
POINT NO	EASTING	NORTHING	RL						
4K1	360372.149	5786606.660	44.911						
4K2	360379.318	5786596.835	45.056						
4K3	360395.126	5786594.365	45.095						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4K1 - 4K2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.984

ALIGNMENT 4L									
POINT NO	EASTING	NORTHING	RL						
4L1	360394.092	5786587.745	45.095						
4L2	360384.267	5786580.576	44.668						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4L1 - 4L2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.923

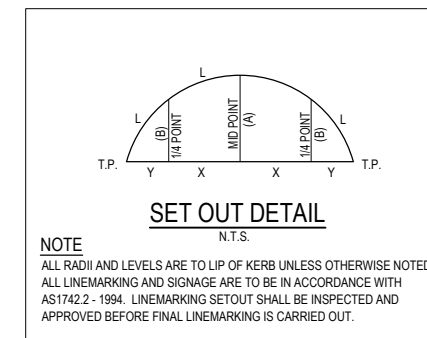
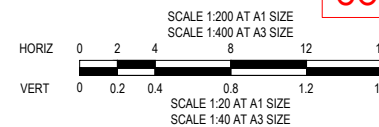
ALIGNMENT 4M									
POINT NO	EASTING	NORTHING	RL						
4M1	360377.647	5786581.611	44.668						
4M2	360370.478	5786591.436	45.095						
4M3	360354.670	5786593.907	45.175						
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
4M1 - 4M2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.923



LIP PROFILE 4J
HORI 1 in 200
VERT 1 in 20



LIP PROFILE 4M
HORI 1 in 200
VERT 1 in 20



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PROPOSED NEW PAVEMENT	PROPOSED GAS MAIN	STREET NAME SIGN

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TAYLORS
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8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2600 | Web: taylors.com.au

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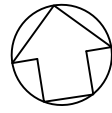
CARDINIA SHIRE COUNCIL

415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

INTERSECTION DETAILS AND KERB LIP PROFILES
SHEET 4 OF 4

SCALE 1:200 H, 1:20 V @ A1

VERSION 0
SHEET 31 OF 47
DRAWING No. 01177-04-E-130



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234

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FUTURE STAGE 5

ROSEDENE AVENUE

EXISTING STAGE 1

107

105

106

108

EVERFAIR CRESCENT

Reserve No. 1

INSTALLATION NOTES:

- 1. CIVIL CONTRACTOR
- 2. CONSTRUCT ROADWORKS AS SHOWN.
- 3. CONSTRUCT DDA COMPLIANT PRAM CROSSINGS IN ACCORDANCE WITH AS1428.
- 4. CONSTRUCT CUT-THROUGH WALKWAYS AS SHOWN IN ACCORDANCE WITH AS1428.
- 5. SUPPLY AND INSTALL PUBLIC LIGHTING AND REMOVE ANY REDUNDANT POLES OR EQUIPMENT. REFER GENERAL NOTES ON DWG 01177-04-E-100.
- 6. CONSTRUCT (SUPPLY ALL MATERIALS AND LABOR) PEDESTRIAN FOOTPATH AS SHOWN.
- 7. LINEMARK AS SHOWN AND REMOVE ANY REDUNDANT MARKINGS.
- 8. SUPPLY AND INSTALL RRPMS AND RPMS AS SHOWN AND REMOVE ANY REDUNDANT MARKERS.
- 9. SUPPLY AND INSTALL ROAD SIGNS WHERE SHOWN AND REMOVE ANY REDUNDANT SIGNS.
- 10. ALL VESI PITS AND ASSOCIATED CONDUITS TO BE INSTALLED BY POWER COMPANY APPROVED PRE-QUALIFIED ELECTRICAL CONTRACTORS.

LINEMARKING NOTES:

- 1. ALL DIMENSIONS ARE TO FACE OF KERB AND CHANNEL UNLESS OTHERWISE NOTED.
- 2. LINEMARKING IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2: SIGNS AND LINEMARKING.

SIGN	TYPE
	STREET NAME PLATE

SIGNAGE LEGEND

N.T.S.

CLEARFELL STREET

APPLEBUSH WALK

SAWMILLER STREET

401

402

403

426

404

427

425

405

428

424

406

429

423

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NEVIS WAY

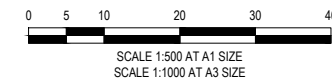
FUTURE STAGE 5

EXISTING DEVELOPMENT

EXISTING DEVELOPMENT

REFER TO DWG 01177-04-E-132 FOR CONTINUATION

CONTRACTOR



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CONSTRUCTION ISSUED FOR CONSTRUCTION

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LEGEND	
	300mm WIDE GIVE WAY HOLDING LINE
	100mm WIDE SEPARATION LINE
	100mm WIDE BARRIER LINE
	RAISED REFLECTIVE PAVEMENT MARKERS
	TGSI (TACTILE GROUND SURFACE INDICATORS)

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by AVID Property Group

Coords: MGA Levels: AHD

TAYLORS
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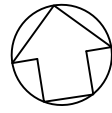
DESIGNED: LOD	AUTHORISED: JOY	DRAFTED: WGO
CHECKED: MIO	AUTH. DATE: 18/09/2020	CAD REF: 01177-04-E-131-132

CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

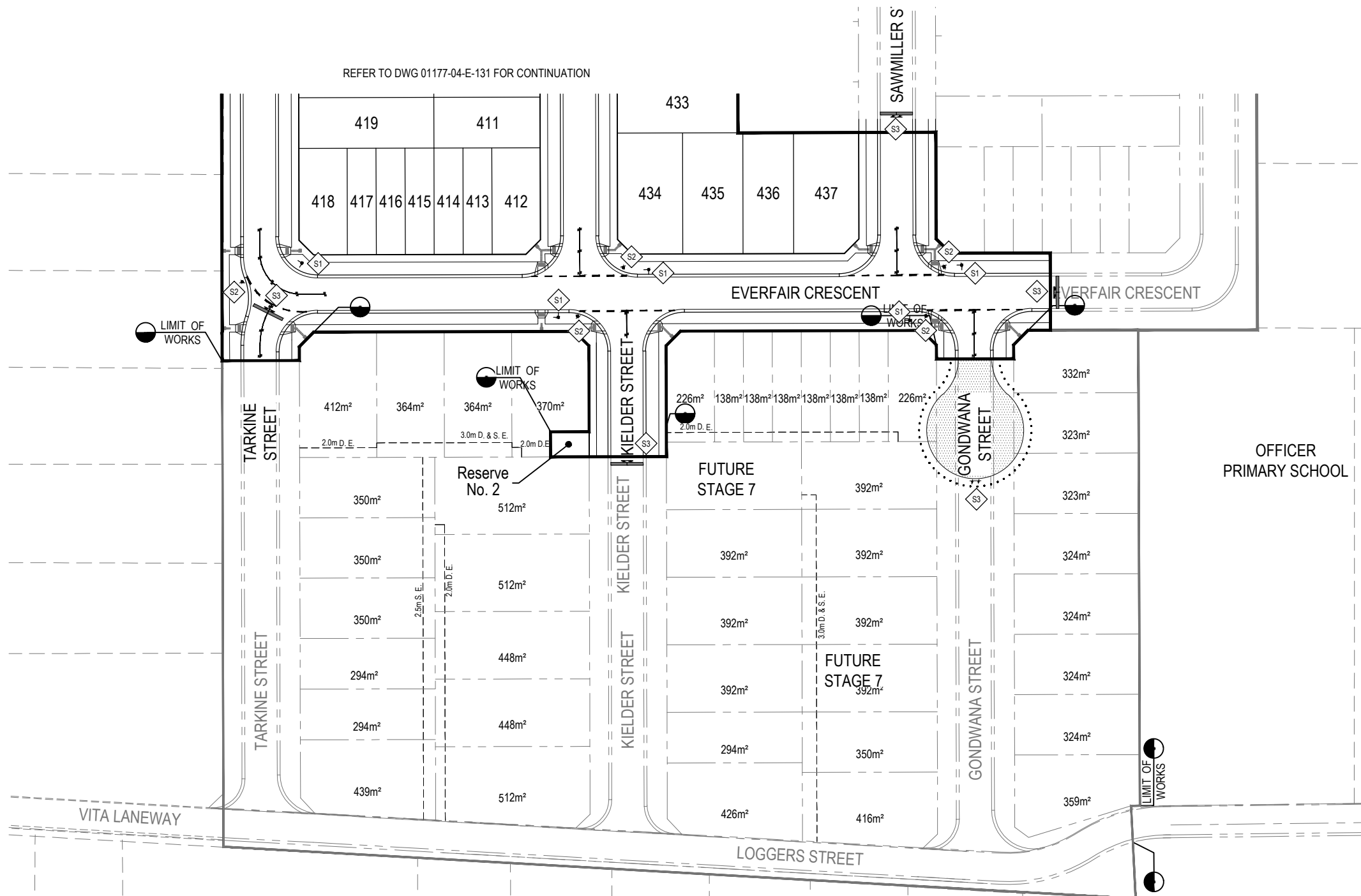
SIGNS AND LINEMARKING PLAN
SHEET 1 OF 2

SCALE 1:500 @ A1

VERSION 0
SHEET 32 OF 47
DRAWING No. 01177-04-E-131



REFER TO DWG 01177-04-E-131 FOR CONTINUATION



INSTALLATION NOTES:

- 1. CIVIL CONTRACTOR
- 2. CONSTRUCT ROADWORKS AS SHOWN.
- 3. CONSTRUCT DDA COMPLIANT PRAM CROSSINGS IN ACCORDANCE WITH AS1428.
- 4. CONSTRUCT CUT-THROUGH WALKWAYS AS SHOWN IN ACCORDANCE WITH AS1428.
- 5. SUPPLY AND INSTALL PUBLIC LIGHTING AND REMOVE ANY REDUNDANT POLES OR EQUIPMENT. REFER GENERAL NOTES ON DWG 01177-04-E-100.
- 6. CONSTRUCT (SUPPLY ALL MATERIALS AND LABOR) PEDESTRIAN FOOTPATH AS SHOWN.
- 7. LINEMARK AS SHOWN AND REMOVE ANY REDUNDANT MARKINGS.
- 8. SUPPLY AND INSTALL RRPMS AND RPMS AS SHOWN AND REMOVE ANY REDUNDANT MARKERS.
- 9. SUPPLY AND INSTALL ROAD SIGNS WHERE SHOWN AND REMOVE ANY REDUNDANT SIGNS.
- 10. ALL VESI PITS AND ASSOCIATED CONDUITS TO BE INSTALLED BY POWER COMPANY APPROVED PRE-QUALIFIED ELECTRICAL CONTRACTORS.

LINEMARKING NOTES:

- 1. ALL DIMENSIONS ARE TO FACE OF KERB AND CHANNEL UNLESS OTHERWISE NOTED.
- 2. LINEMARKING IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2: SIGNS AND LINEMARKING.

SIGN	TYPE
	STREET NAME PLATE S1
	R1-2A S2
	D4-5 S3

SIGNAGE LEGEND
N.T.S.



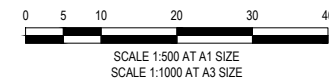
WARNING

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CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

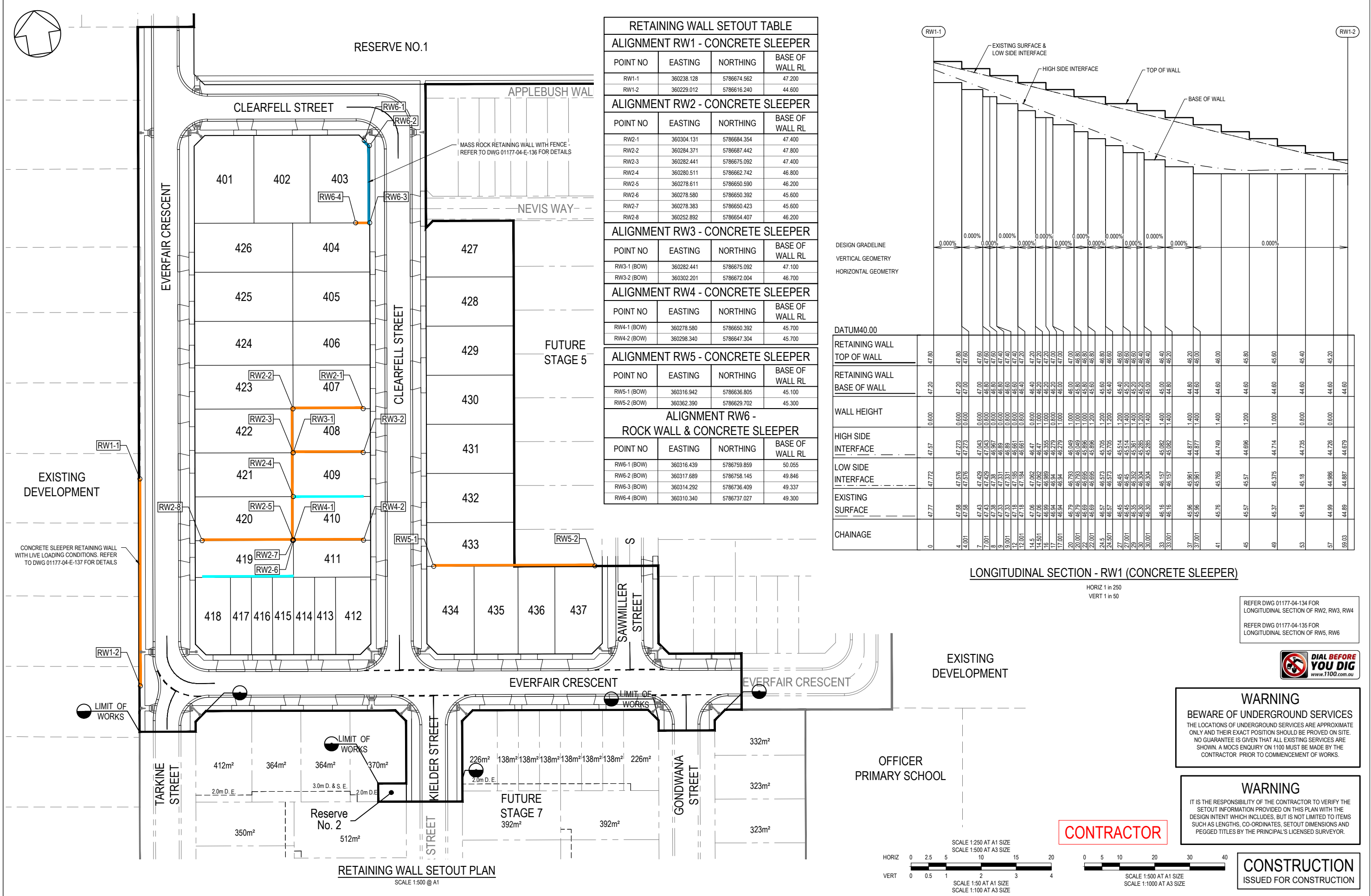
LEGEND	
	300mm WIDE GIVE WAY HOLDING LINE
	100mm WIDE SEPARATION LINE
	100mm WIDE BARRIER LINE
	RAISED REFLECTIVE PAVEMENT MARKERS
	TGSI (TACTILE GROUND SURFACE INDICATORS)

by AVID Property Group

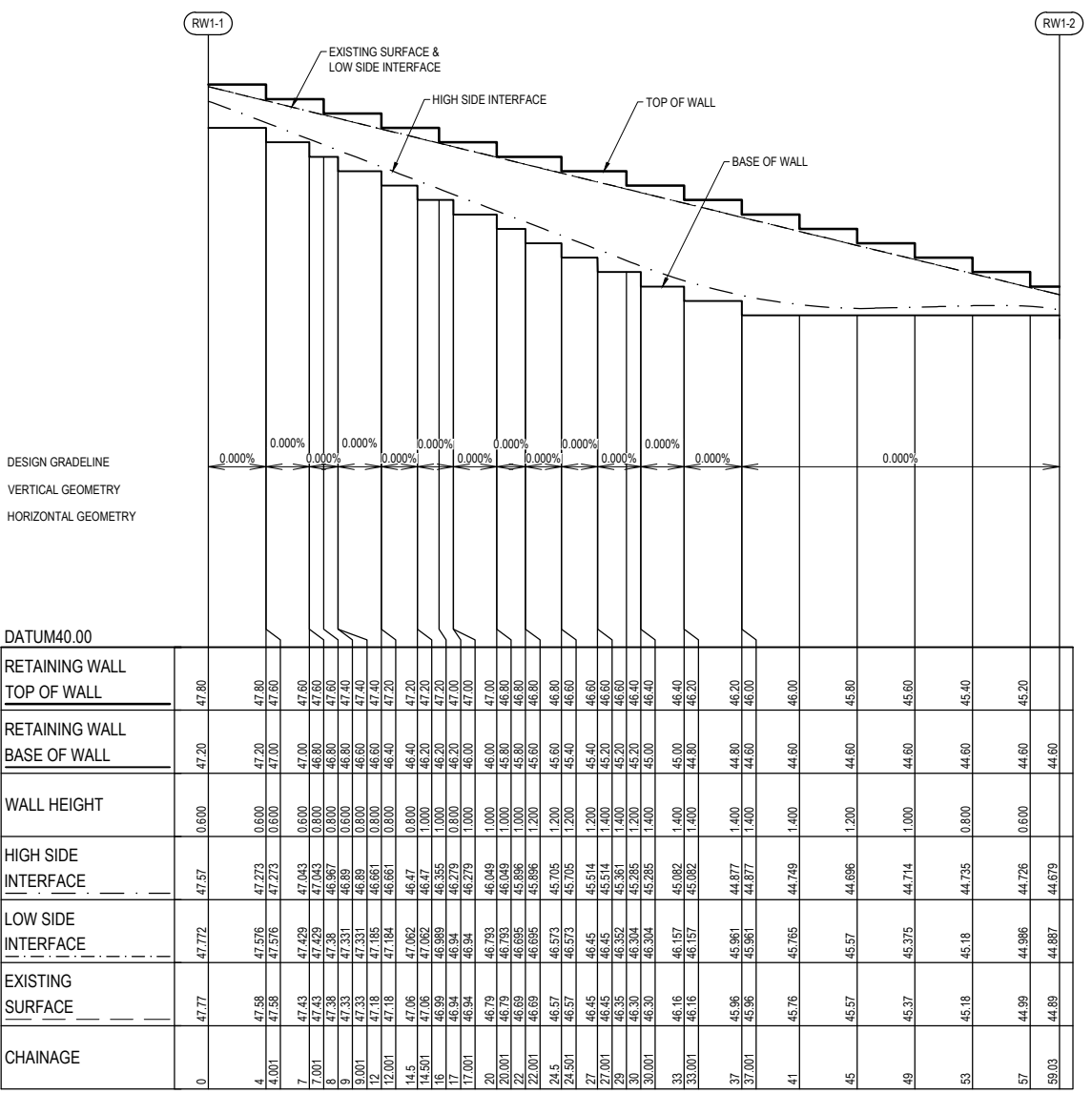
Urban Development | Infrastructure
8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2600 | Web: taylors.com.au

DESIGNED: LOD	AUTHORISED: JOY	DRAFTED: WGO
CHECKED: MIO	AUTH. DATE: 18/09/2020	CAD REF: 01177-04-E-131-132

CARDINIA SHIRE COUNCIL	SCALE 1:500 @ A1
415 PRINCES HIGHWAY, OFFICER VIC 3809 HILLSTOWE ESTATE, STAGE 4	VERSION 0
SIGNS AND LINEMARKING PLAN	SHEET 33 OF 47
SHEET 2 OF 2	DRAWING No. 01177-04-E-132



RETAINING WALL SETOUT TABLE			
ALIGNMENT RW1 - CONCRETE SLEEPER			
POINT NO	EASTING	NORTHING	BASE OF WALL RL
RW1-1	360238.128	5786674.562	47.200
RW1-2	360229.012	5786616.240	44.600
ALIGNMENT RW2 - CONCRETE SLEEPER			
POINT NO	EASTING	NORTHING	BASE OF WALL RL
RW2-1	360304.131	5786684.354	47.400
RW2-2	360284.371	5786687.442	47.800
RW2-3	360282.441	5786675.092	47.400
RW2-4	360280.511	5786662.742	46.800
RW2-5	360278.611	5786650.590	46.200
RW2-6	360278.580	5786650.392	45.600
RW2-7	360278.383	5786650.423	45.600
RW2-8	360252.892	5786654.407	46.200
ALIGNMENT RW3 - CONCRETE SLEEPER			
POINT NO	EASTING	NORTHING	BASE OF WALL RL
RW3-1 (BOW)	360282.441	5786675.092	47.100
RW3-2 (BOW)	360302.201	5786672.004	46.700
ALIGNMENT RW4 - CONCRETE SLEEPER			
POINT NO	EASTING	NORTHING	BASE OF WALL RL
RW4-1 (BOW)	360278.580	5786650.392	45.700
RW4-2 (BOW)	360298.340	5786647.304	45.700
ALIGNMENT RW5 - CONCRETE SLEEPER			
POINT NO	EASTING	NORTHING	BASE OF WALL RL
RW5-1 (BOW)	360316.942	5786636.805	45.100
RW5-2 (BOW)	360362.390	5786629.702	45.300
ALIGNMENT RW6 - ROCK WALL & CONCRETE SLEEPER			
POINT NO	EASTING	NORTHING	BASE OF WALL RL
RW6-1 (BOW)	360316.439	5786759.859	50.055
RW6-2 (BOW)	360317.689	5786758.145	49.846
RW6-3 (BOW)	360314.292	5786736.409	49.337
RW6-4 (BOW)	360310.340	5786737.027	49.300



LONGITUDINAL SECTION - RW1 (CONCRETE SLEEPER)

HORIZ 1 in 250
VERT 1 in 50

REFER DWG 01177-04-134 FOR LONGITUDINAL SECTION OF RW2, RW3, RW4
REFER DWG 01177-04-135 FOR LONGITUDINAL SECTION OF RW5, RW6



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CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR

RETAINING WALL SETOUT POINT	DESCRIPTION
RW1-1	PROPOSED CONCRETE SLEEPER RETAINING WALL
	PROPOSED MASS ROCK RETAINING WALL
	PROPOSED EARTH WALL

hillstowe
by AVID Property Group

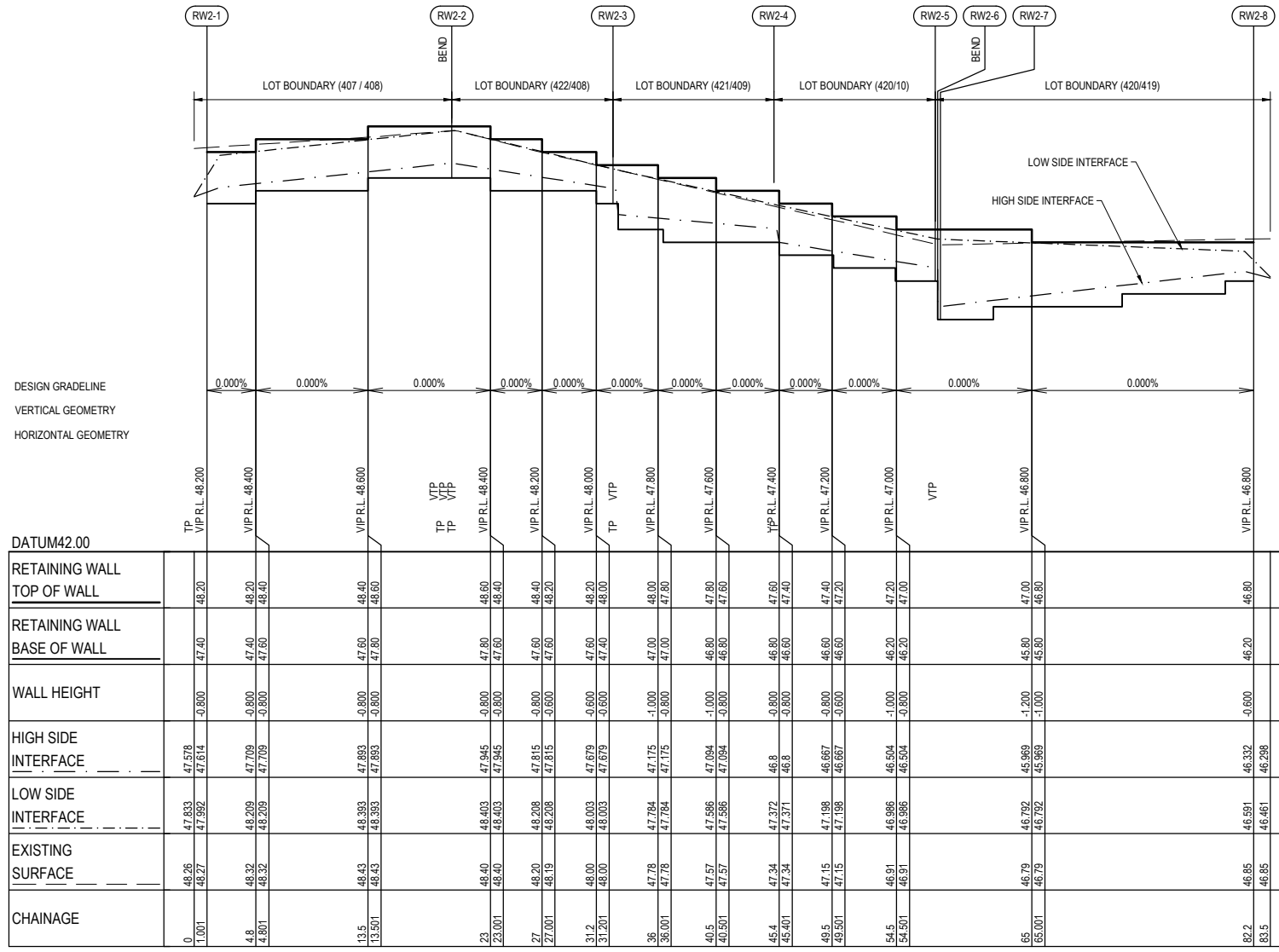
TAYLORS
Urban Development | Infrastructure
8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2600 | Web: taylors.com.au

DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-133-135

CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

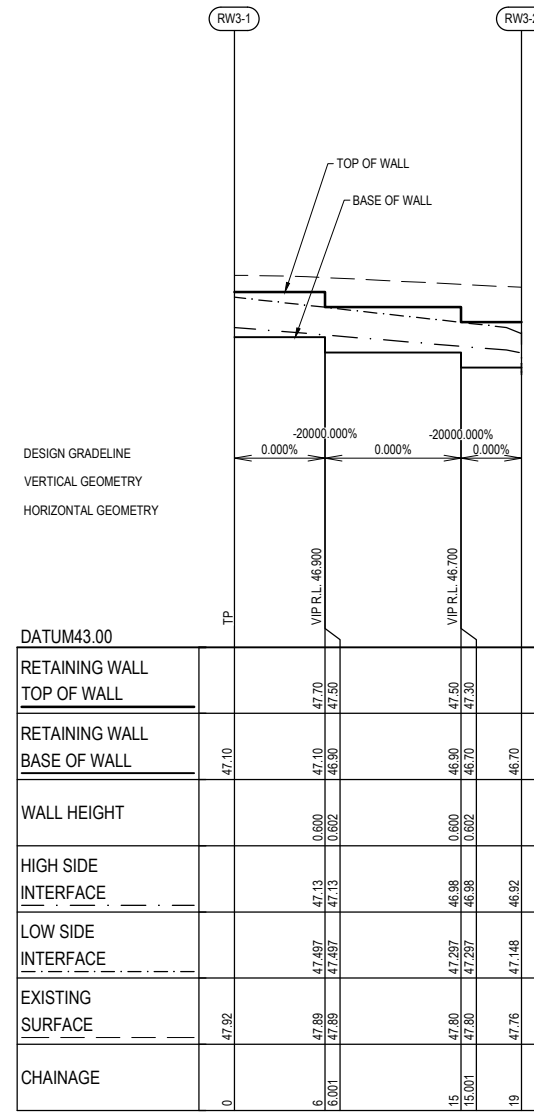
RETAINING WALL SETOUT DETAIL
SHEET 1 OF 3

SCALE AS SHOWN @ A1
VERSION 0
SHEET 34 OF 47
DRAWING No. 01177-04-E-133



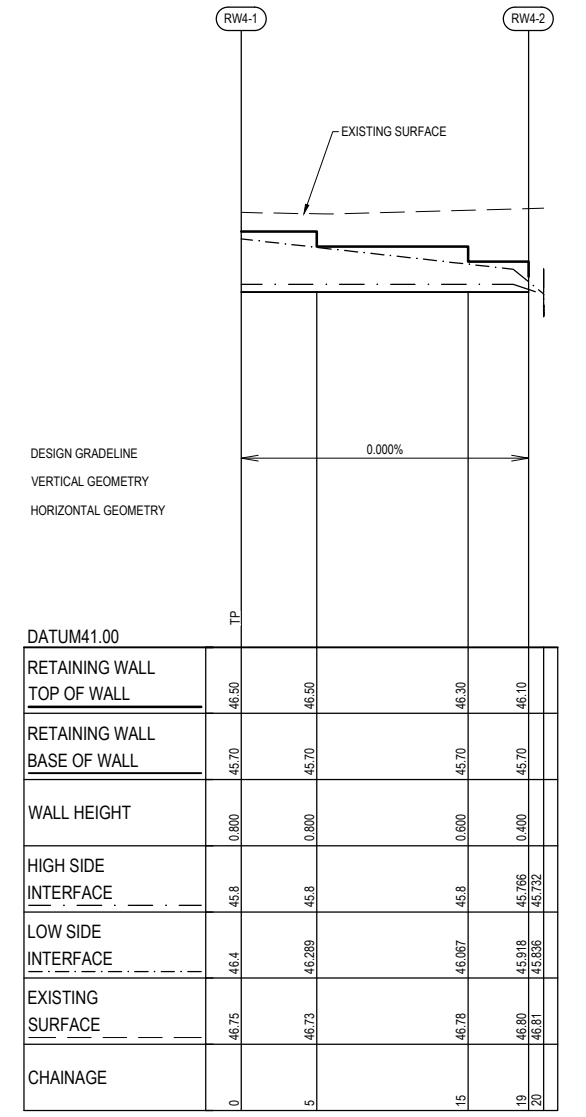
LONGITUDINAL SECTION - RW2 (CONCRETE SLEEPER)

HORIZ 1 in 250
VERT 1 in 50



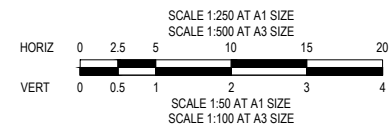
LONGITUDINAL SECTION - RW3 (CONCRETE SLEEPER)

HORIZ 1 in 250
VERT 1 in 50



LONGITUDINAL SECTION - RW4 (CONCRETE SLEEPER)

HORIZ 1 in 250
VERT 1 in 50



CONTRACTOR

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CONSTRUCTION
ISSUED FOR CONSTRUCTION



VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST



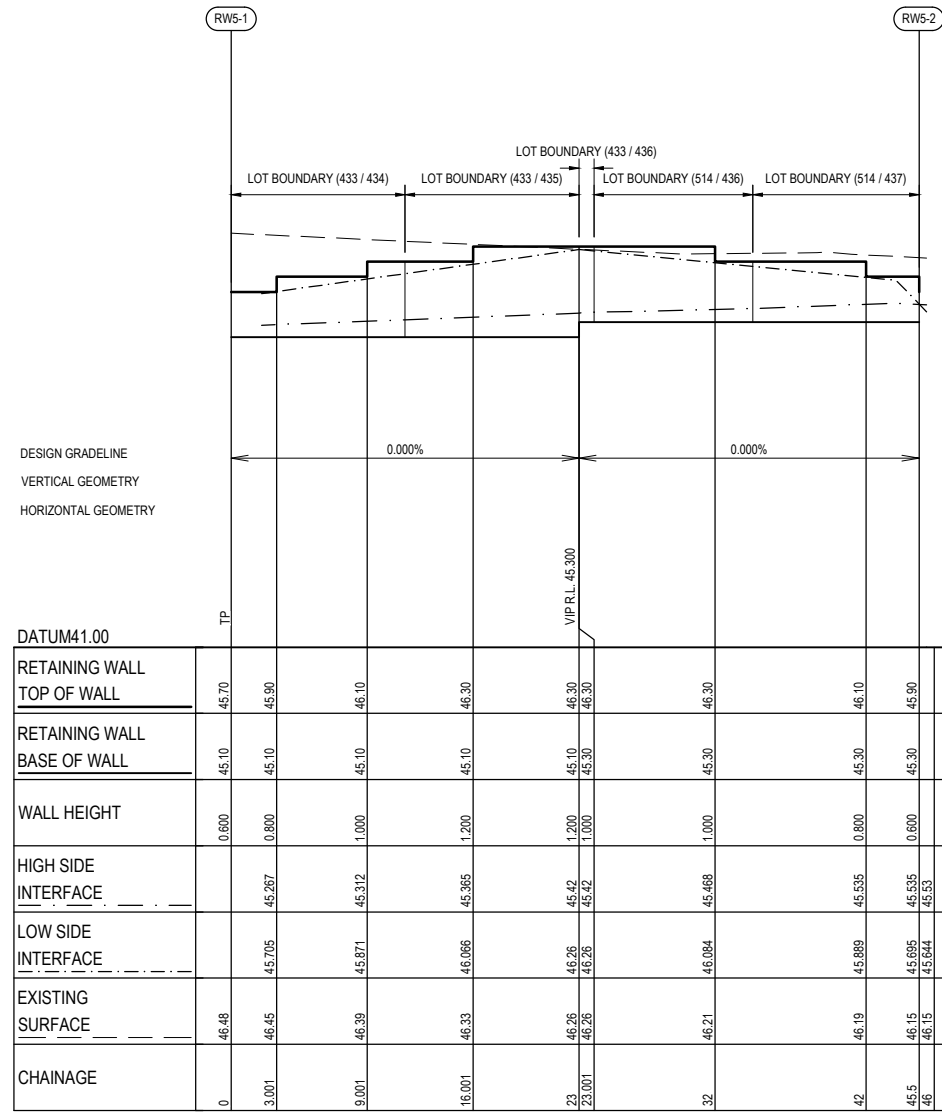
Coords: MGA Levels: AHD

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CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-133-135

CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

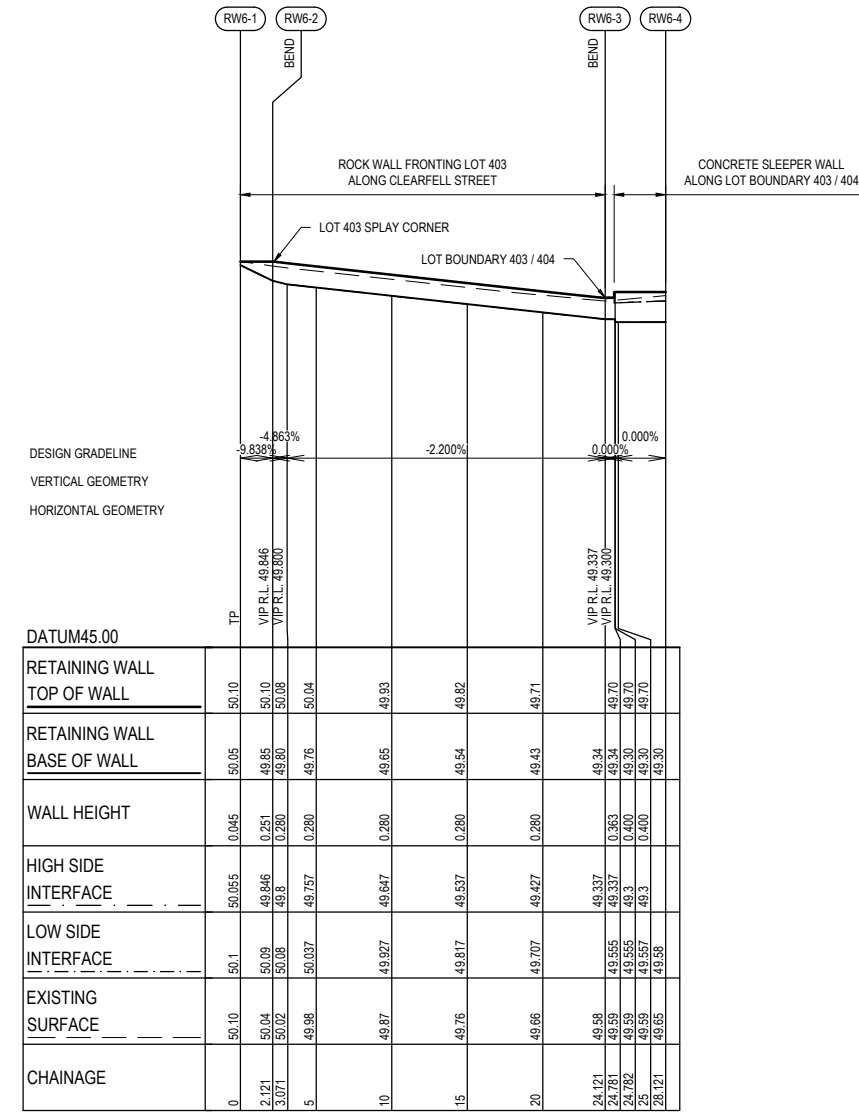
RETAINING WALL SETOUT DETAIL
SHEET 2 OF 3

SCALE AS SHOWN @ A1
VERSION 0
SHEET 35 OF 47
DRAWING No. 01177-04-E-134



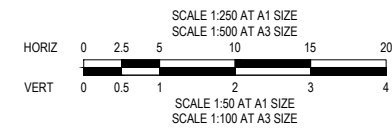
LONGITUDINAL SECTION - RW5 (CONCRETE SLEEPER)

HORIZ 1 in 250
VERT 1 in 50



LONGITUDINAL SECTION - RW6 (ROCK WALL & CONCRETE SLEEPER)

HORIZ 1 in 250
VERT 1 in 50



CONTRACTOR



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CONSTRUCTION
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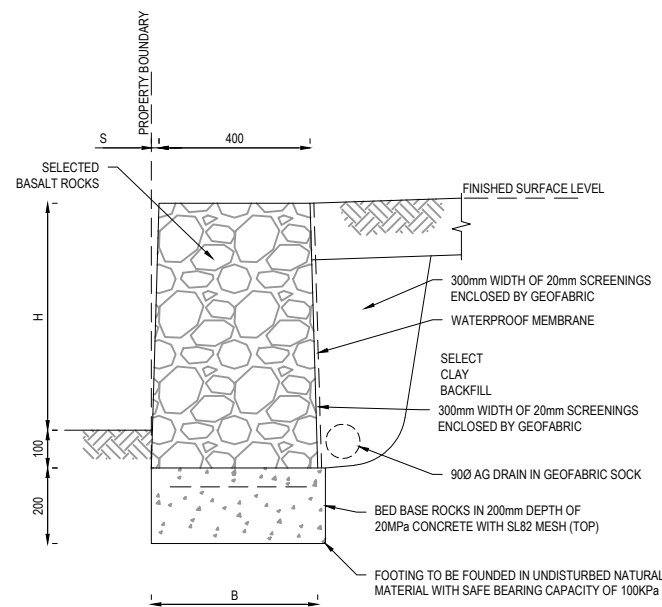
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST
VER	DATE	REVISION	APPD.



DESIGNED:	LOD	AUTHORISED:	JOY	DRAFTED:	WGO
CHECKED:	MIO	AUTH. DATE:	18/09/2020	CAD REF:	01177-04-E-133-135

CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
RETAINING WALL SETOUT DETAIL
SHEET 3 OF 3

SCALE	AS SHOWN @ A1
VERSION	0
SHEET	36 OF 47
DRAWING No.	01177-04-E-135

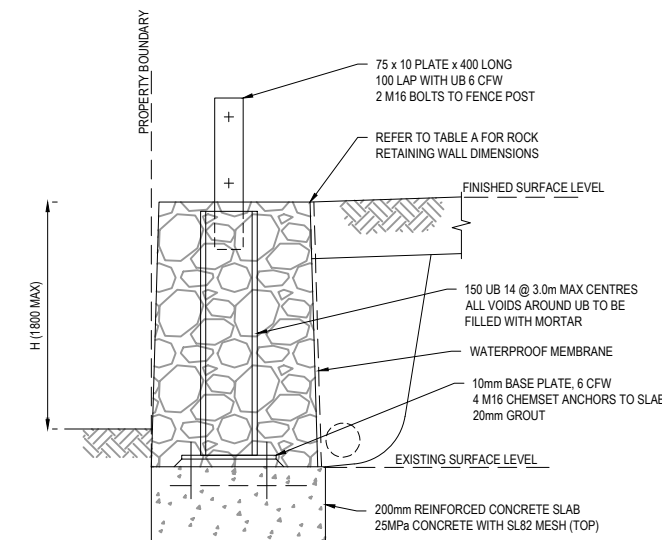


**RETAINING WALL DETAIL
(MASS ROCK)**
SCALE 1:10 @ A1

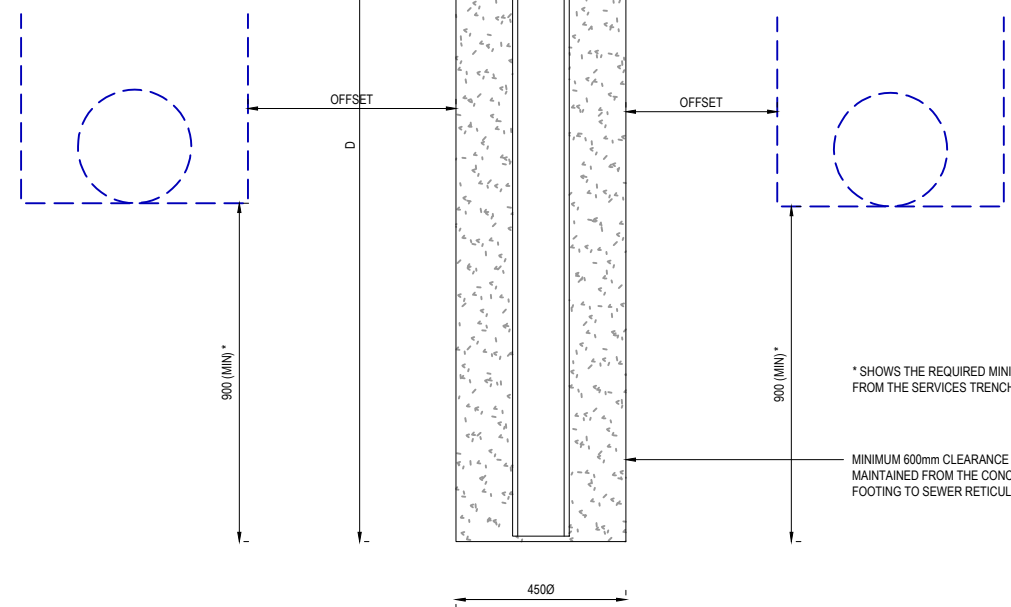
**TABLE A
RETAINING WALL SCHEDULE
(MASS ROCK)**

HEIGHT H (mm)	BASE WIDTH B (mm)	FRONT FACE SETBACK S (mm)
600	420	20
900	500	30

NOTE:
ALL STEEL TO BE HOT DIP GALVANISED AFTER FABRICATION



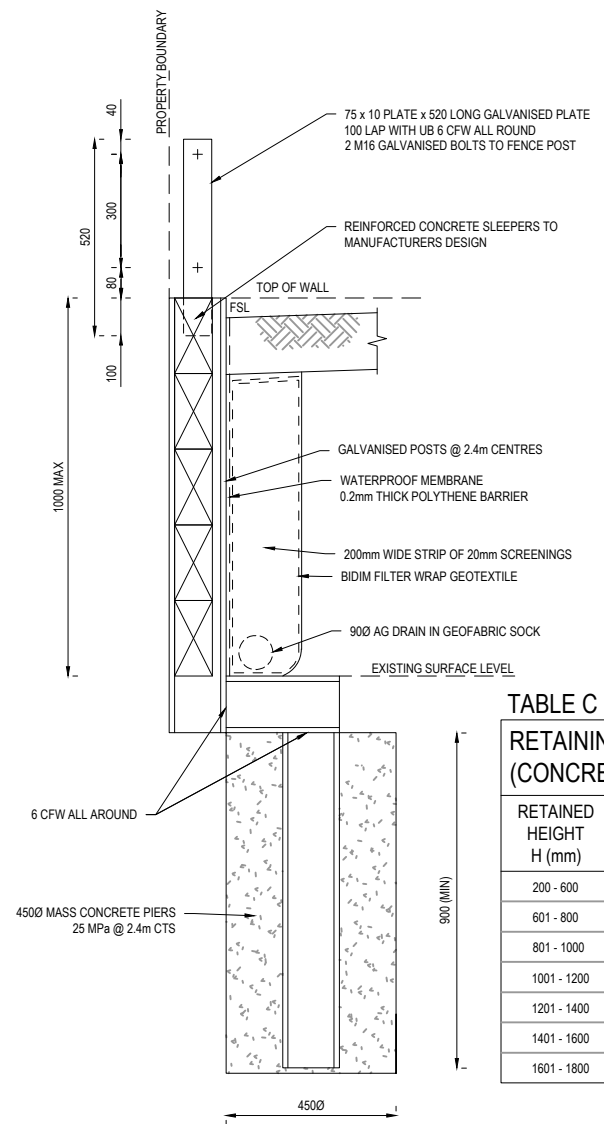
**RETAINING WALL DETAIL
(MASS ROCK WITH FENCE)**
SCALE 1:10 @ A1



**RETAINING WALL DETAIL
(CONCRETE SLEEPER)**
SCALE 1:10 @ A1

**TABLE B
RETAINING WALL SCHEDULE
(CONCRETE SLEEPER)**

RETAINED HEIGHT H (mm)	DEPTH D (mm)	GALVANISED POST SIZE
200 - 600	900	150 UB 14
601 - 800	1200	150 UB 14
801 - 1000	1500	150 UB 14
1001 - 1200	1800	150 UB 14
1201 - 1400	2100	150 UB 14
1401 - 1600	2400	150 UB 18
1601 - 1800	2700	200 UB 22



**RETAINING WALL DETAIL
(CONCRETE SLEEPER WITH OFFSET FOOTING)**
SCALE 1:10 @ A1

**TABLE C
RETAINING WALL SCHEDULE
(CONCRETE SLEEPER)**

RETAINED HEIGHT H (mm)	DEPTH D (mm)	GALVANISED POST SIZE
200 - 600	900	150 UB 14
601 - 800	1200	150 UB 14
801 - 1000	1800	150 UB 14
1001 - 1200	2100	150 UB 14
1201 - 1400	2400	150 UB 14
1401 - 1600	2700	150 UB 18
1601 - 1800	3000	200 UB 22

* SHOWS THE REQUIRED MINIMUM DEPTH BELOW SERVICES WHERE THE OFFSET FROM THE SERVICES TRENCH TO BORED PIERS IS LESS THAN 900mm

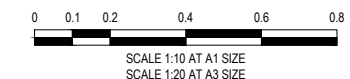
MINIMUM 600mm CLEARANCE TO BE MAINTAINED FROM THE CONCRETE FOOTING TO SEWER RETICULATION



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DESIGNED: LOD	AUTHORISED: JOY	DRAFTED: WGO
CHECKED: MIO	AUTH. DATE: 18/09/2020	CAD REF: 01177-04-E-136-137

CARDINIA SHIRE COUNCIL	SCALE AS SHOWN @ A1
415 PRINCES HIGHWAY, OFFICER VIC 3809 HILLSTOWE ESTATE, STAGE 4	VERSION 0
RETAINING WALL DETAILS SHEET 1 OF 2	SHEET 37 OF 47
	DRAWING No. 01177-04-E-136

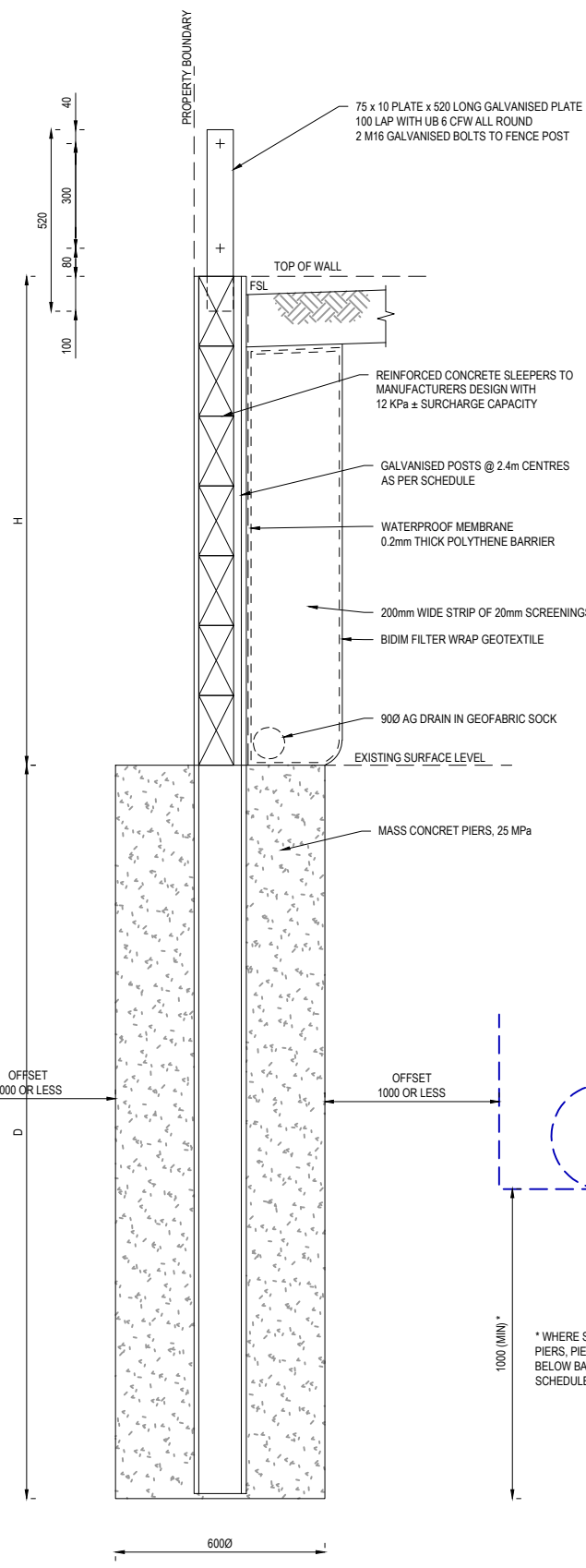
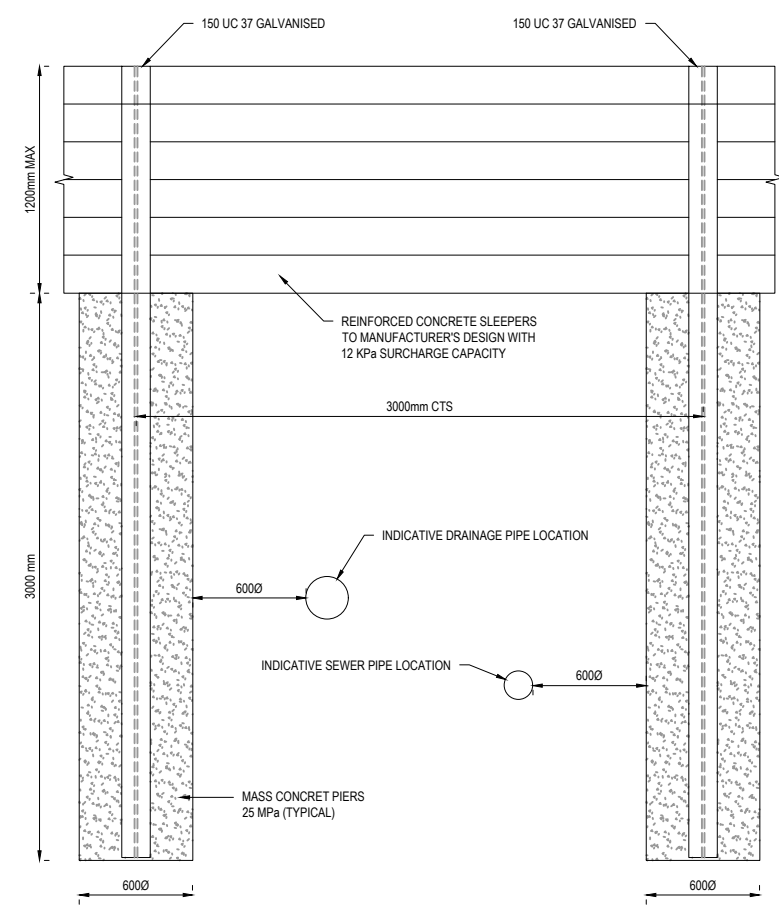


TABLE D
RETAINING WALL SCHEDULE
(CONCRETE SLEEPER WITH LIVE LOADING)

RETAINED HEIGHT H (mm)	DEPTH D (mm)	GALVANISED POST SIZE
200 - 600	1200	150 UB 23
601 - 800	1600	150 UB 23
801 - 1000	2000	150 UB 23
1001 - 1200	2400	150 UB 37
1201 - 1400	2800	150 UB 37
1401 - 1600	3200	150 UB 37
1601 - 1800	3600	200 UB 46
1801 - 2000	4000	200 UB 46



RETAINING WALL DETAIL
(CONCRETE SLEEPER WITH 3m SPAN)
SCALE 1:20 @ A1

RETAINING WALL DETAIL
(CONCRETE SLEEPER WITH LIVE LOADING)
SCALE 1:10 @ A1

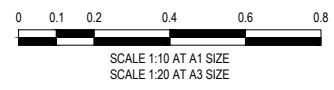
* WHERE SERVICE TRENCHES ARE WITHIN 1000mm OF PIERS, PIERS ARE TO BE FOUNDED 1000mm MIN BELOW BASE OF SERVICE TRENCH OR DEPTH D IN SCHEDULE, WHICHEVER IS GREATER



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CONTRACTOR



CONSTRUCTION
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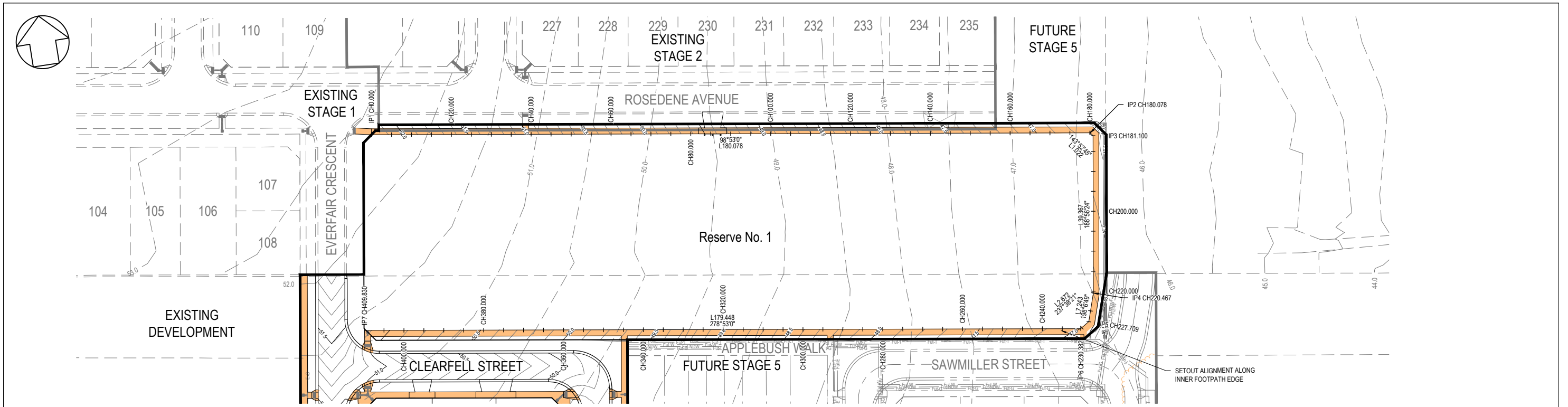
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST
VER	DATE	REVISION	APPD.



DESIGNED:	LOD	AUTHORISED:	JOY	DRAFTED:	WGO
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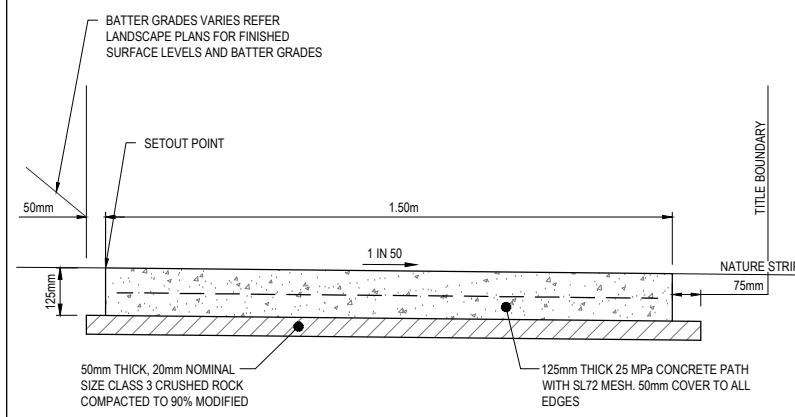
CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
RETAINING WALL DETAILS
SHEET 2 OF 2

SCALE	AS SHOWN @ A1
VERSION	0
SHEET	38 OF 47
DRAWING No.	01177-04-E-137



RESERVE FOOTPATH HORIZONTAL SETOUT					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	360280.923	5786833.729	52.306	98°53'00.00"
	5.000	360285.863	5786832.957	52.180	98°53'00.00"
	10.000	360290.803	5786832.185	52.044	98°53'00.00"
	15.000	360295.743	5786831.413	51.898	98°53'00.00"
	20.000	360300.683	5786830.641	51.741	98°53'00.00"
	25.000	360305.623	5786829.869	51.574	98°53'00.00"
	30.000	360310.563	5786829.097	51.405	98°53'00.00"
	35.000	360315.503	5786828.325	51.236	98°53'00.00"
	40.000	360320.443	5786827.552	51.068	98°53'00.00"
	45.000	360325.383	5786826.780	50.899	98°53'00.00"
	50.000	360330.323	5786826.008	50.730	98°53'00.00"
	55.000	360335.263	5786825.236	50.562	98°53'00.00"
	60.000	360340.203	5786824.464	50.393	98°53'00.00"
	65.000	360345.143	5786823.692	50.224	98°53'00.00"
	70.000	360350.083	5786822.920	50.055	98°53'00.00"
	75.000	360355.023	5786822.148	49.887	98°53'00.00"
	80.000	360359.963	5786821.376	49.718	98°53'00.00"
85.000	360364.903	5786820.603	49.549	98°53'00.00"	
90.000	360369.843	5786819.831	49.381	98°53'00.00"	
95.000	360374.784	5786819.059	49.212	98°53'00.00"	
100.000	360379.724	5786818.287	49.043	98°53'00.00"	
105.000	360384.664	5786817.515	48.874	98°53'00.00"	
110.000	360389.604	5786816.743	48.706	98°53'00.00"	
115.000	360394.544	5786815.971	48.537	98°53'00.00"	
120.000	360399.484	5786815.199	48.368	98°53'00.00"	
125.000	360404.424	5786814.427	48.200	98°53'00.00"	
130.000	360409.364	5786813.654	48.031	98°53'00.00"	
135.000	360414.304	5786812.882	47.866	98°53'00.00"	
140.000	360419.244	5786812.110	47.716	98°53'00.00"	
145.000	360424.184	5786811.338	47.581	98°53'00.00"	
150.000	360429.124	5786810.566	47.461	98°53'00.00"	
155.000	360434.064	5786809.794	47.352	98°53'00.00"	
160.000	360439.004	5786809.022	47.244	98°53'00.00"	
165.000	360443.944	5786808.250	47.135	98°53'00.00"	
170.000	360448.884	5786807.478	47.027	98°53'00.00"	
175.000	360453.824	5786806.705	46.919	98°53'00.00"	
180.000	360458.764	5786805.933	46.845	98°53'00.00"	
IP 2	180.078	360458.841	5786805.921	46.844	
IP 3	181.100	360459.443	5786805.096	46.837	
	185.000	360458.837	5786801.243	46.838	188°56'23.72"
	190.000	360458.060	5786796.304	46.866	188°56'23.72"
	195.000	360457.283	5786791.365	46.894	188°56'23.72"
	200.000	360456.506	5786786.425	46.922	188°56'23.72"
	205.000	360455.729	5786781.486	46.950	188°56'23.72"

RESERVE FOOTPATH HORIZONTAL SETOUT					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
	210.000	360454.952	5786776.547	46.978	188°56'23.72"
	215.000	360454.175	5786771.608	47.006	188°56'23.72"
	220.000	360453.398	5786766.668	47.034	188°56'23.72"
IP 4	220.467	360453.326	5786766.207	47.037	
	225.000	360451.916	5786761.899	47.062	198°06'49.16"
IP 5	227.709	360451.074	5786759.324	47.078	
	230.000	360449.139	5786758.098	47.095	237°38'20.83"
IP 6	230.382	360448.817	5786757.893	47.099	
	235.000	360444.254	5786758.606	47.148	278°52'59.98"
	240.000	360439.314	5786759.318	47.214	278°52'59.98"
	245.000	360434.374	5786760.150	47.287	278°52'59.98"
	250.000	360429.434	5786760.923	47.433	278°52'59.98"
	255.000	360424.494	5786761.695	47.578	278°52'59.98"
	260.000	360419.554	5786762.467	47.724	278°52'59.98"
	265.000	360414.614	5786763.239	47.820	278°52'59.98"
	270.000	360409.674	5786764.011	47.909	278°52'59.98"
	275.000	360404.734	5786764.783	47.999	278°52'59.98"
	280.000	360399.794	5786765.555	48.092	278°52'59.98"
	285.000	360394.854	5786766.327	48.186	278°52'59.98"
	290.000	360389.914	5786767.100	48.279	278°52'59.98"
	295.000	360384.974	5786767.872	48.381	278°52'59.98"
	300.000	360380.034	5786768.644	48.511	278°52'59.98"
	305.000	360375.094	5786769.416	48.659	278°52'59.98"
	310.000	360370.154	5786770.188	48.808	278°52'59.98"
	315.000	360365.214	5786770.960	48.958	278°52'59.98"
	320.000	360360.274	5786771.732	49.107	278°52'59.98"
	325.000	360355.334	5786772.504	49.256	278°52'59.98"
	330.000	360350.393	5786773.276	49.405	278°52'59.98"
	335.000	360345.453	5786774.049	49.554	278°52'59.98"
	340.000	360340.513	5786774.821	49.699	278°52'59.98"
	345.000	360335.573	5786775.593	49.825	278°52'59.98"
	350.000	360330.633	5786776.365	49.933	278°52'59.98"
	355.000	360325.693	5786777.137	50.040	278°52'59.98"
	360.000	360320.753	5786777.909	50.147	278°52'59.98"
	365.000	360315.813	5786778.681	50.255	278°52'59.98"
	370.000	360310.873	5786779.453	50.364	278°52'59.98"
	375.000	360305.933	5786780.225	50.474	278°52'59.98"
	380.000	360300.993	5786780.998	50.584	278°52'59.98"
	385.000	360296.053	5786781.770	50.693	278°52'59.98"
	390.000	360291.113	5786782.542	50.803	278°52'59.98"
	395.000	360286.173	5786783.314	50.912	278°52'59.98"
	400.000	360281.233	5786784.086	51.022	278°52'59.98"
	405.000	360276.293	5786784.858	51.132	278°52'59.98"
IP 7	409.830	360271.521	5786785.604	51.237	278°52'59.98"



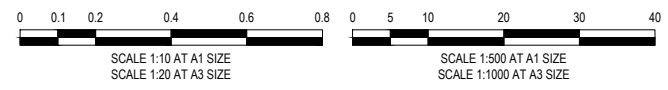
TYPICAL FOOTPATH DETAIL
SCALE 1:10 @ A1
(REFER TO EDMC STANDARD DWG 401)

FOOTPATH DETAIL NOTE:
FOOTPATH CONSTRUCTED IN FILL SHALL BE USING STRUCTURAL FILL MATERIAL TO BE APPROVED TYPE 'A' MATERIAL AS PER VICROADS SERIES 200 DOCUMENT TABLE 204.04. SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED THROUGHOUT TO A DRY DENSITY OF NOT LESS THAN 98% STANDARD COMPACTION

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CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

LEGEND	
	TGSI (TACTILE GROUND SURFACE INDICATORS)

hillstowe
by AVID Property Group

TAYLORS
Urban Development | Infrastructure
8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2600 | Web: taylors.com.au

DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-138

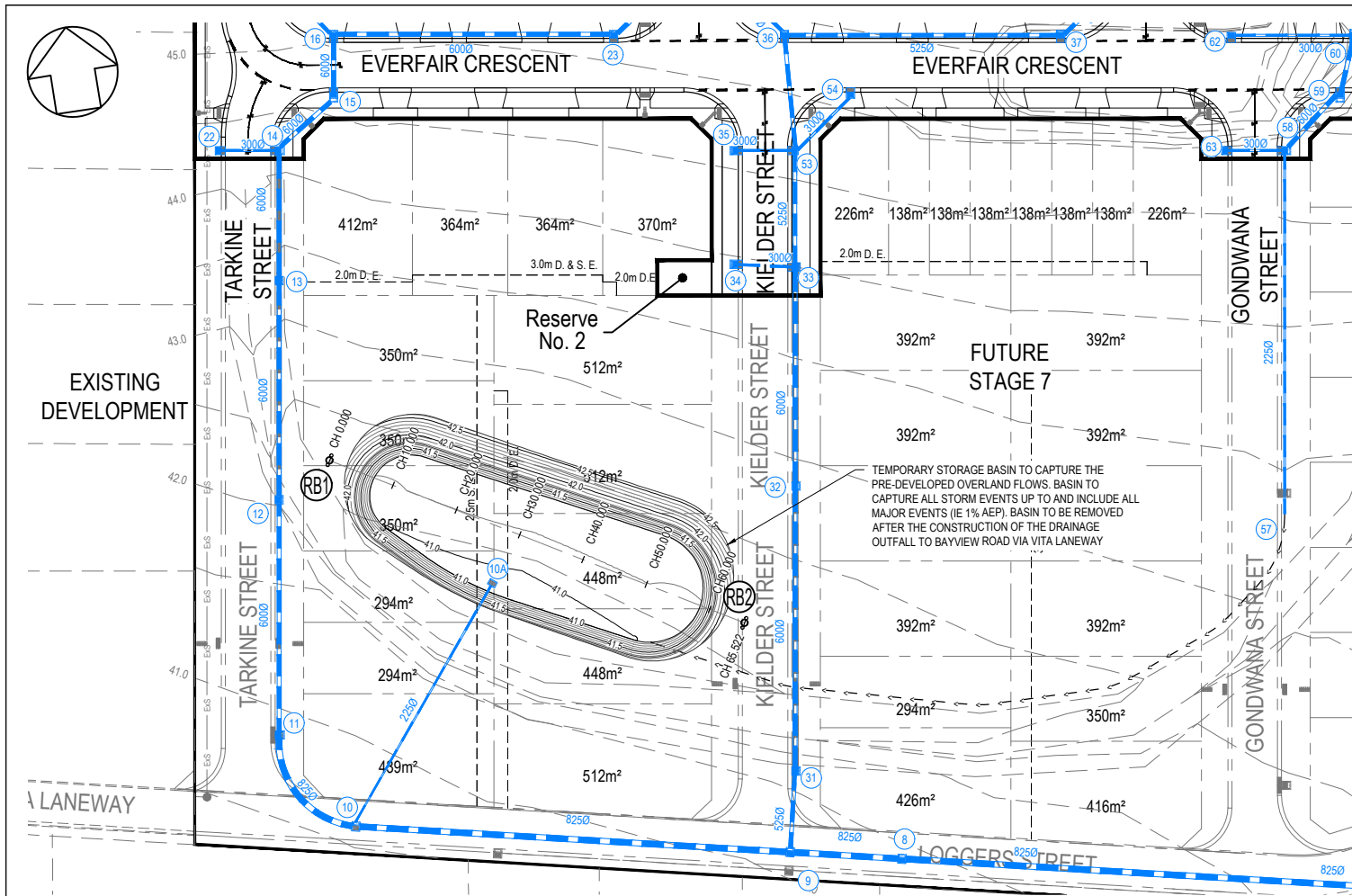
CARDINIA SHIRE COUNCIL

415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

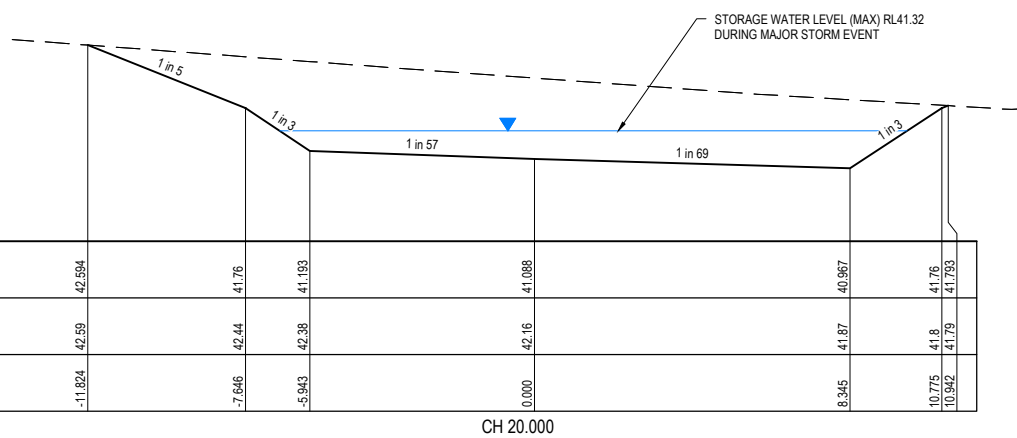
RESERVE FOOTPATH SETOUT PLAN

SCALE 1:500 @ A1

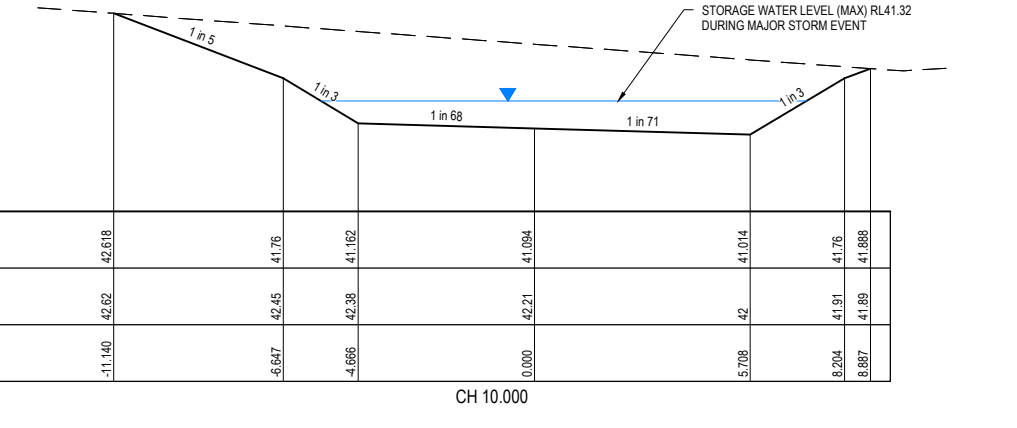
VERSION 0
SHEET 39 OF 47
DRAWING No. 01177-04-E-138



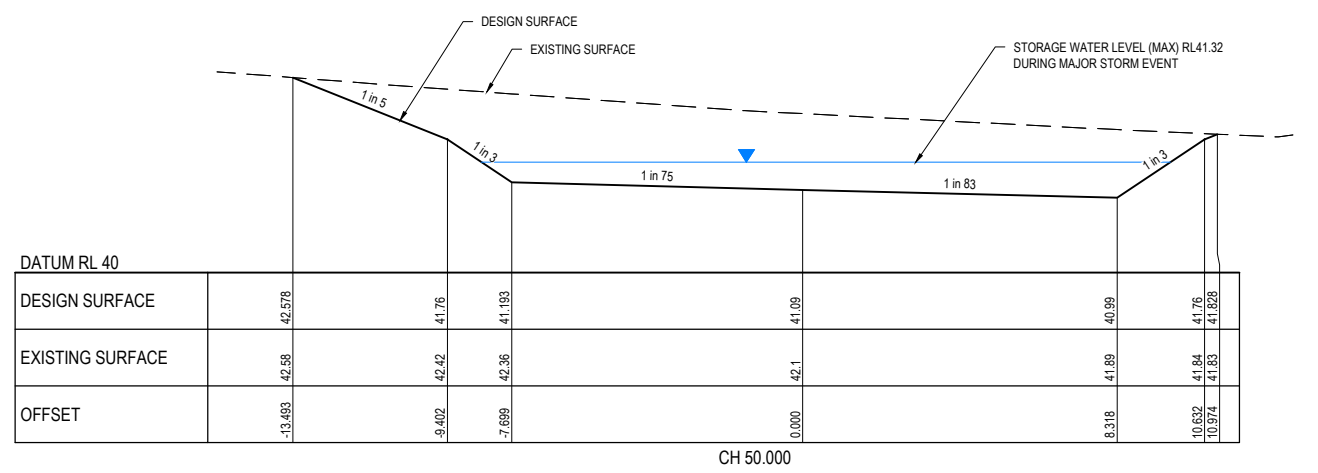
TEMPORARY RETARDING BASIN SETOUT PLAN
SCALE 1:500 @ A1



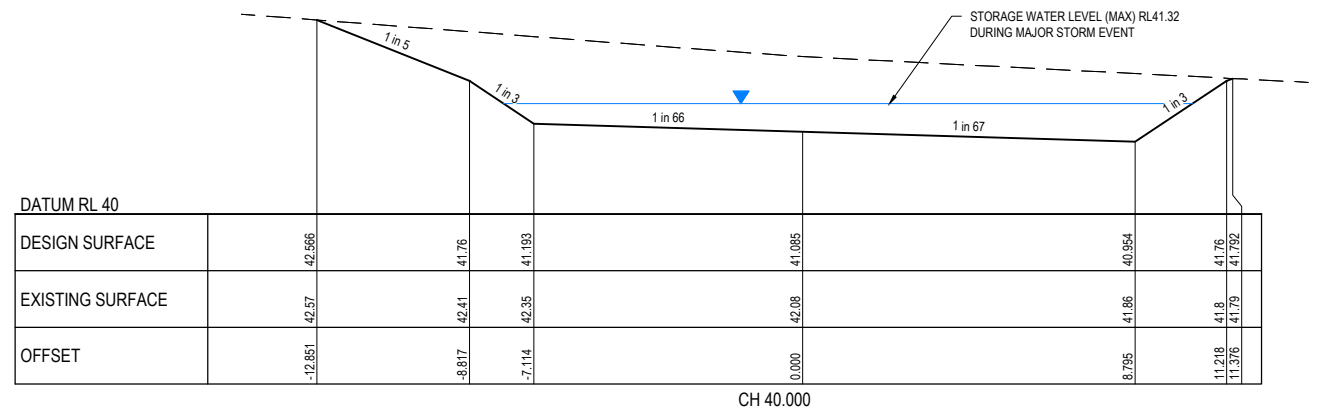
DATUM RL 40						
DESIGN SURFACE		42.394	41.76	41.193	41.088	40.987
EXISTING SURFACE	-11.824	42.59	42.44	42.38	42.16	41.75
OFFSET			-7.646	-5.343	0.000	8.345



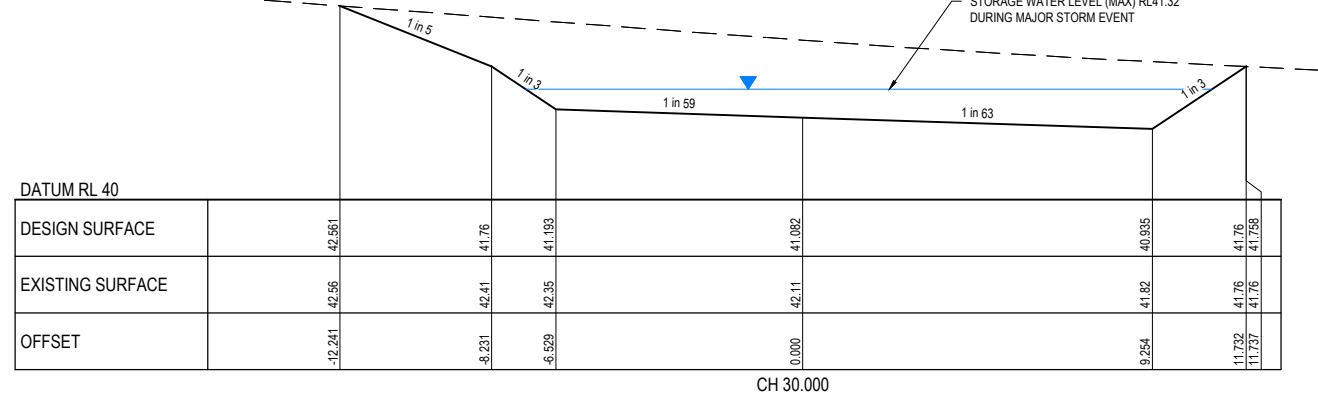
DATUM RL 40						
DESIGN SURFACE		42.618	41.76	41.162	41.094	41.014
EXISTING SURFACE	-11.140	42.62	42.45	42.38	42.21	41.88
OFFSET			-6.657	-4.666	0.000	5.708



DATUM RL 40						
DESIGN SURFACE		42.578	41.76	41.193	41.09	40.99
EXISTING SURFACE	-19.493	42.58	42.42	42.36	42.1	41.828
OFFSET			-9.402	-7.699	0.000	8.318



DATUM RL 40						
DESIGN SURFACE		42.566	41.76	41.193	41.085	40.954
EXISTING SURFACE	-12.851	42.57	42.41	42.35	42.08	41.79
OFFSET			-8.817	-7.114	0.000	11.218



DATUM RL 40						
DESIGN SURFACE		42.561	41.76	41.193	41.082	40.935
EXISTING SURFACE	-12.241	42.55	42.41	42.35	42.11	41.76
OFFSET			-8.231	-6.629	0.000	11.229

TEMPORARY RETARDING BASIN CROSS SECTIONS

HORI 1 in 100
VERT 1 in 50

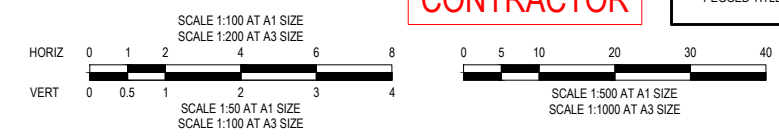


ALIGNMENT BASIN			
POINT NO	EASTING	NORTHING	RL
RB1	360239.450	5786556.539	42.219
RB1	360296.042	5786523.515	42.136

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CONTRACTOR



CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

CENTRE LINE SETOUT POINT
PROPOSED OPEN CATCH DRAIN
PROPOSED COUNCIL DRAIN & PIT

LEGEND

hillstowe
by AVID Property Group

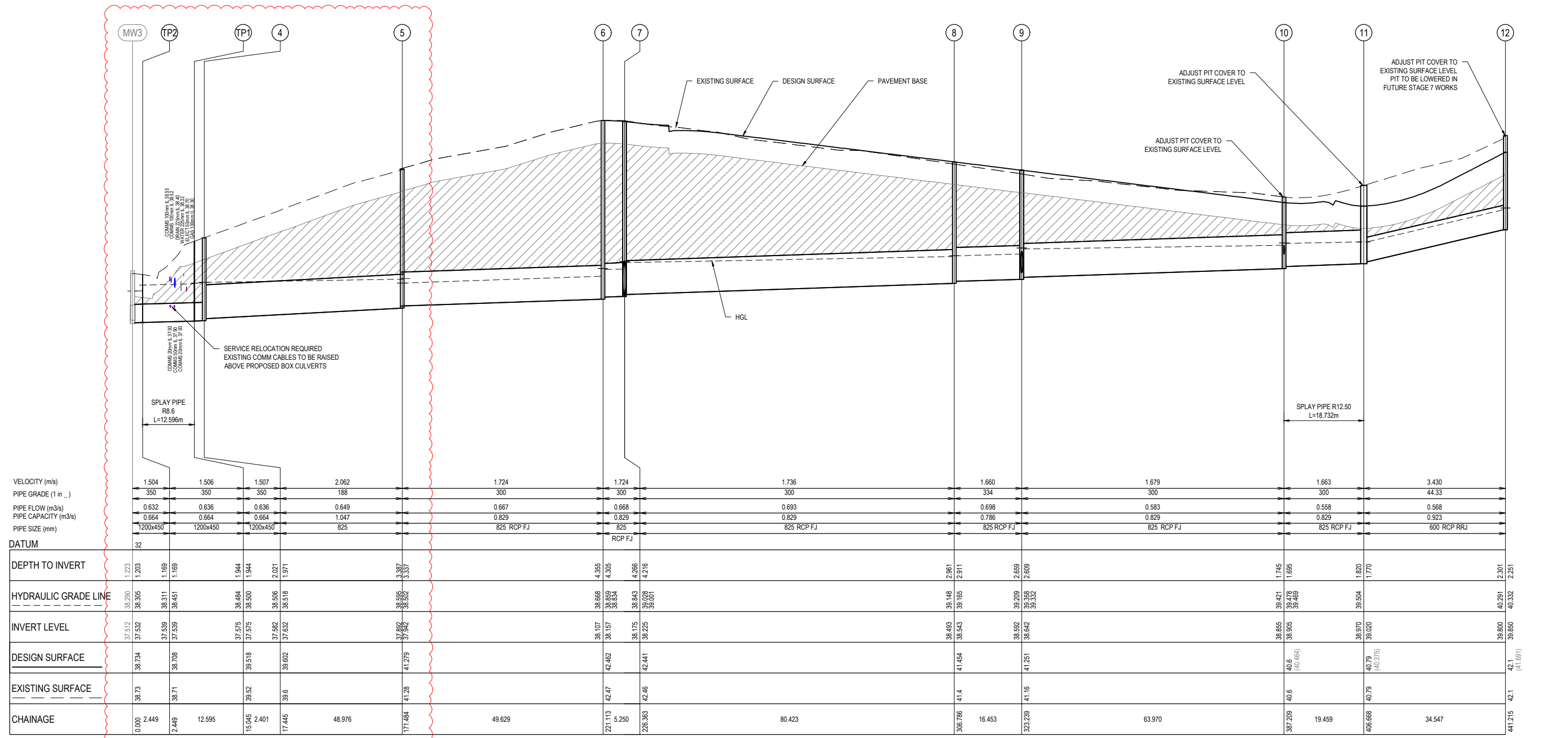
TAYLORS
Urban Development | Infrastructure
8/270 Ferris Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2800 | Web: taylors.com.au

DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-139

CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

TEMPORARY RETARDING BASIN DETAILS

SCALE AS SHOWN @ A1
VERSION 0
SHEET 40 OF 47
DRAWING No. 01177-04-E-139

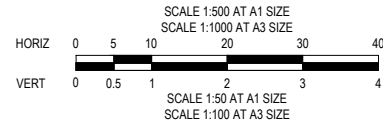


VELOCITY (m/s)	1.504	1.506	1.507	2.062	1.724	1.724	1.736	1.660	1.679	1.663	3.430															
PIPE GRADE (1 in ...)	350	350	350	188	300	300	300	334	300	300	44.33															
PIPE FLOW (m ³ /s)	0.632	0.636	0.636	0.649	0.667	0.668	0.693	0.698	0.583	0.558	0.568															
PIPE CAPACITY (m ³ /s)	0.664	0.664	0.664	1.047	0.829	0.829	0.829	0.786	0.829	0.829	0.923															
PIPE SIZE (mm)	1200x450	1200x450	1200x450	825	825 RCP FJ	825	825 RCP FJ	825 RCP FJ	825 RCP FJ	825 RCP FJ	600 RCP RRJ															
DATUM	32																									
DEPTH TO INVERT	38.290	1.223	1.203	1.169	1.944	1.944	2.021	1.971	3.387	3.337	4.395	4.305	4.266	4.216	2.981	2.911	2.659	2.609	1.745	1.695	1.620	1.770	2.301	2.251		
HYDRAULIC GRADE LINE	38.305	38.311	38.451	38.484	38.500	38.506	38.516	38.518	38.595	38.592	38.668	38.659	38.634	38.643	38.625	38.628	38.602	38.592	38.542	39.421	39.478	39.469	39.504	39.800	40.291	40.332
INVERT LEVEL	37.512	37.552	37.539	37.539	37.575	37.575	37.582	37.632	37.652	37.652	38.107	38.157	38.175	38.225	38.175	38.028	38.001	38.592	38.642	38.855	38.905	38.905	38.970	39.020	39.850	39.850
DESIGN SURFACE	38.734	38.708	39.518	39.518	41.279	42.462	42.441	41.454	41.251	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
EXISTING SURFACE	38.73	38.71	39.52	39.6	41.28	42.47	42.46	41.4	41.16	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
CHAINAGE	0.000	2.449	2.449	12.595	15.045	2.401	17.445	48.976	171.484	221.113	5.250	226.363	80.423	306.786	16.453	323.239	63.970	387.209	19.459	406.668	34.547	441.215	42.1	42.1	42.1	42.1

NOTES

- PIPE CLASS TO BE CLASS 2 UNLESS NOTED OTHERWISE.
- STRUCTURAL FILL USED ONLY WHEN EXISTING SURFACE IS BELOW FOOTPATH.

CONTRACTOR



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CONSTRUCTION
 ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
1	07/09/2021	MINOR AMENDMENT TO OUTFALL DRAIN	EST
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

LEGEND

DENOTES 20mm CLASS 2 FCR BACKFILL

hillstowe
 by AVID Property Group

TAYLORS
 Urban Development | Infrastructure
 8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9501 2600 | Web: taylors.com.au

DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
 CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-140-145

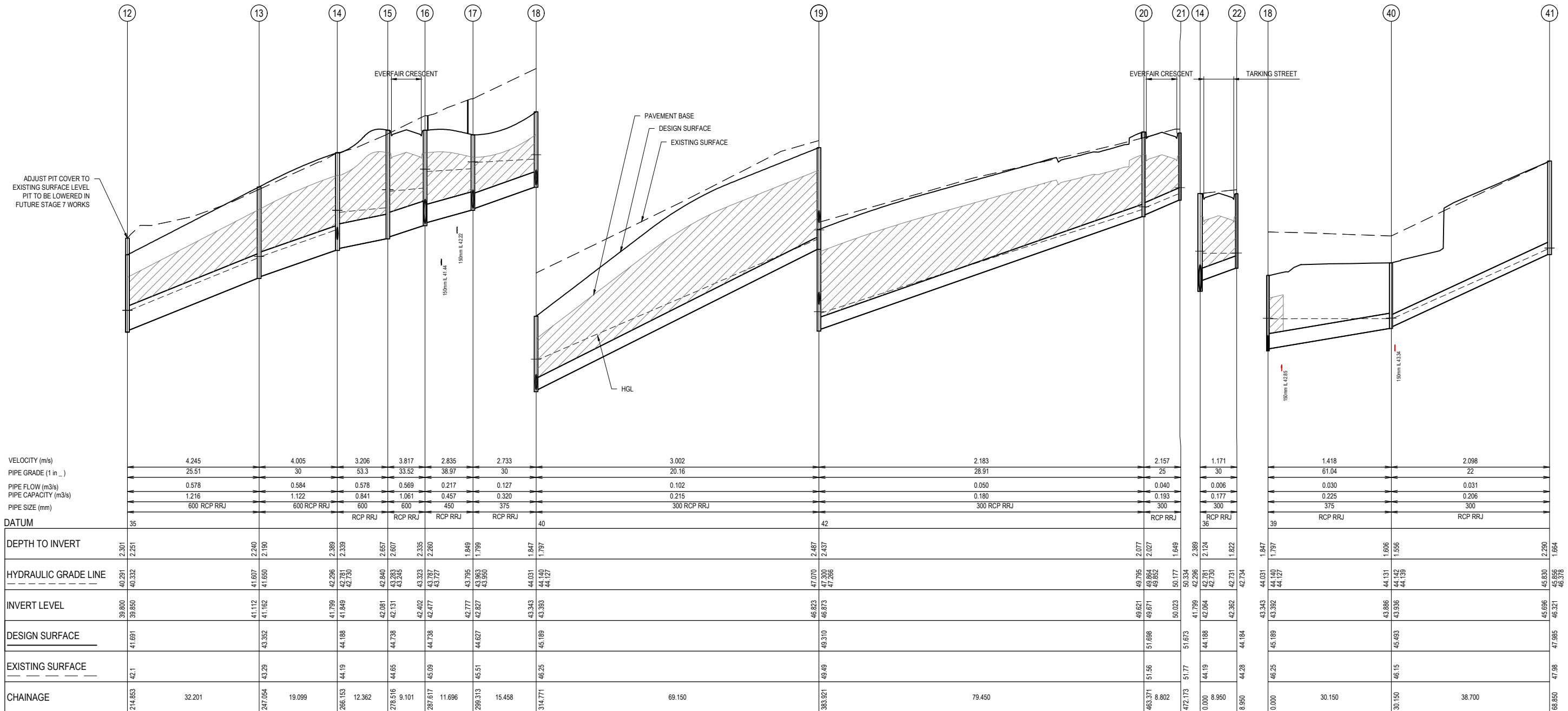
CARDINIA SHIRE COUNCIL

415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

DRAINAGE LONGITUDINAL SECTIONS
 SHEET 1 OF 6

SCALE 1:500 H, 1:50 V @ A1

VERSION 1
 SHEET 41 OF 47
 DRAWING No. 01177-04-E-140



NOTES

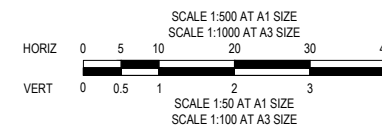
1. PIPE CLASS TO BE CLASS 2 UNLESS NOTED OTHERWISE.
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CONTRACTOR



CONSTRUCTION
 ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

LEGEND
 DENOTES 20mm CLASS 2 FCR BACKFILL

hillstowe
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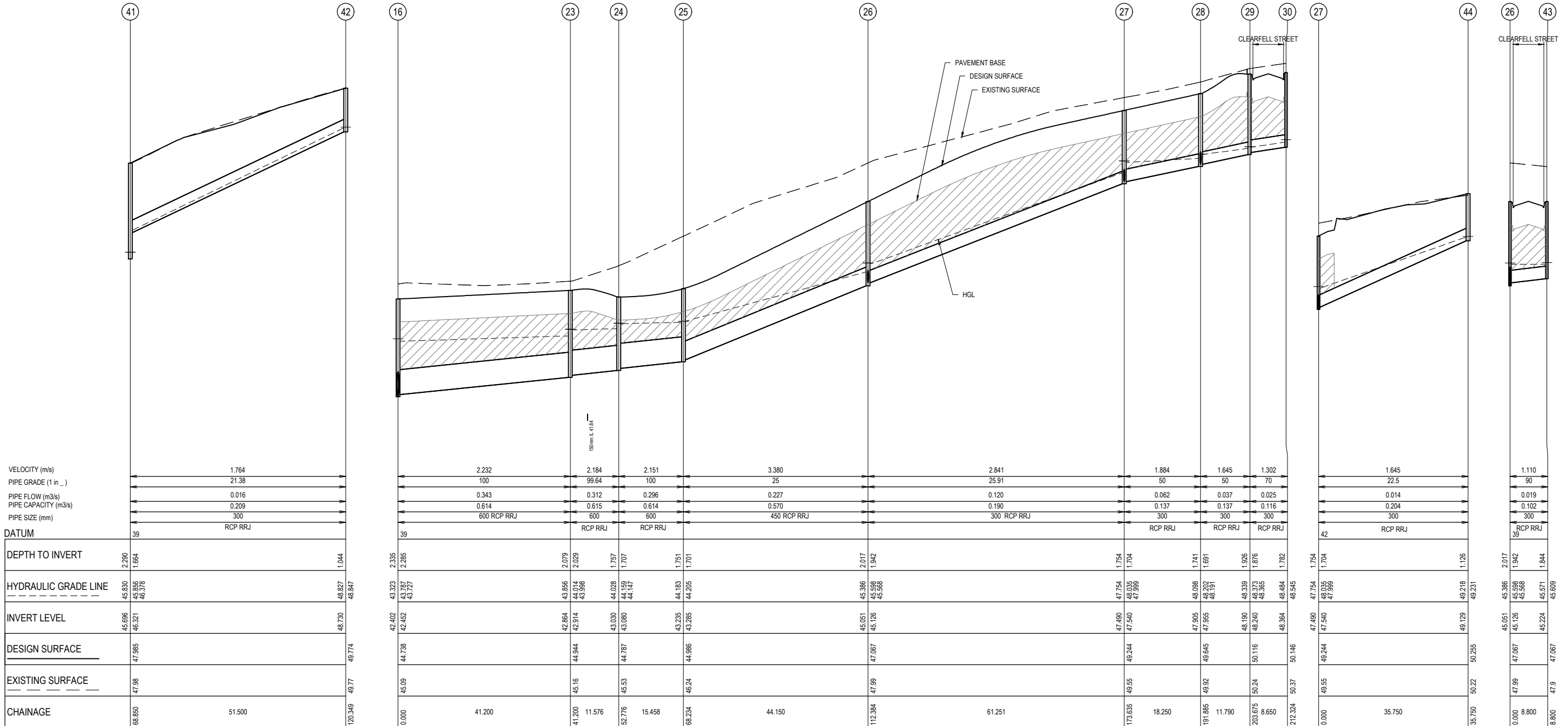
CARDINIA SHIRE COUNCIL

415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

DRAINAGE LONGITUDINAL SECTIONS
 SHEET 2 OF 6

SCALE 1:500 H, 1:50 V @ A1

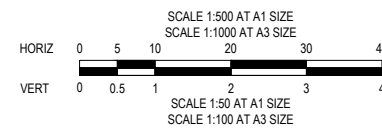
VERSION 0
 SHEET 42 OF 47
 DRAWING No. 01177-04-E-141



NOTES

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CONTRACTOR



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CONSTRUCTION
 ISSUED FOR CONSTRUCTION

LEGEND

DENOTES 20mm CLASS 2 FCR BACKFILL

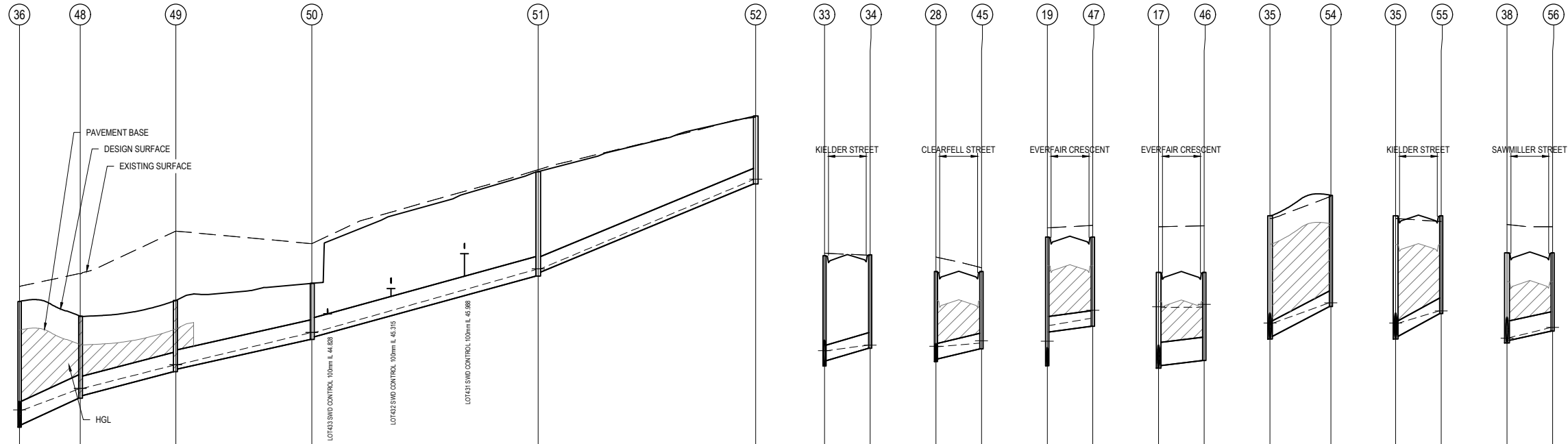
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST
VER	DATE	REVISION	APPD.



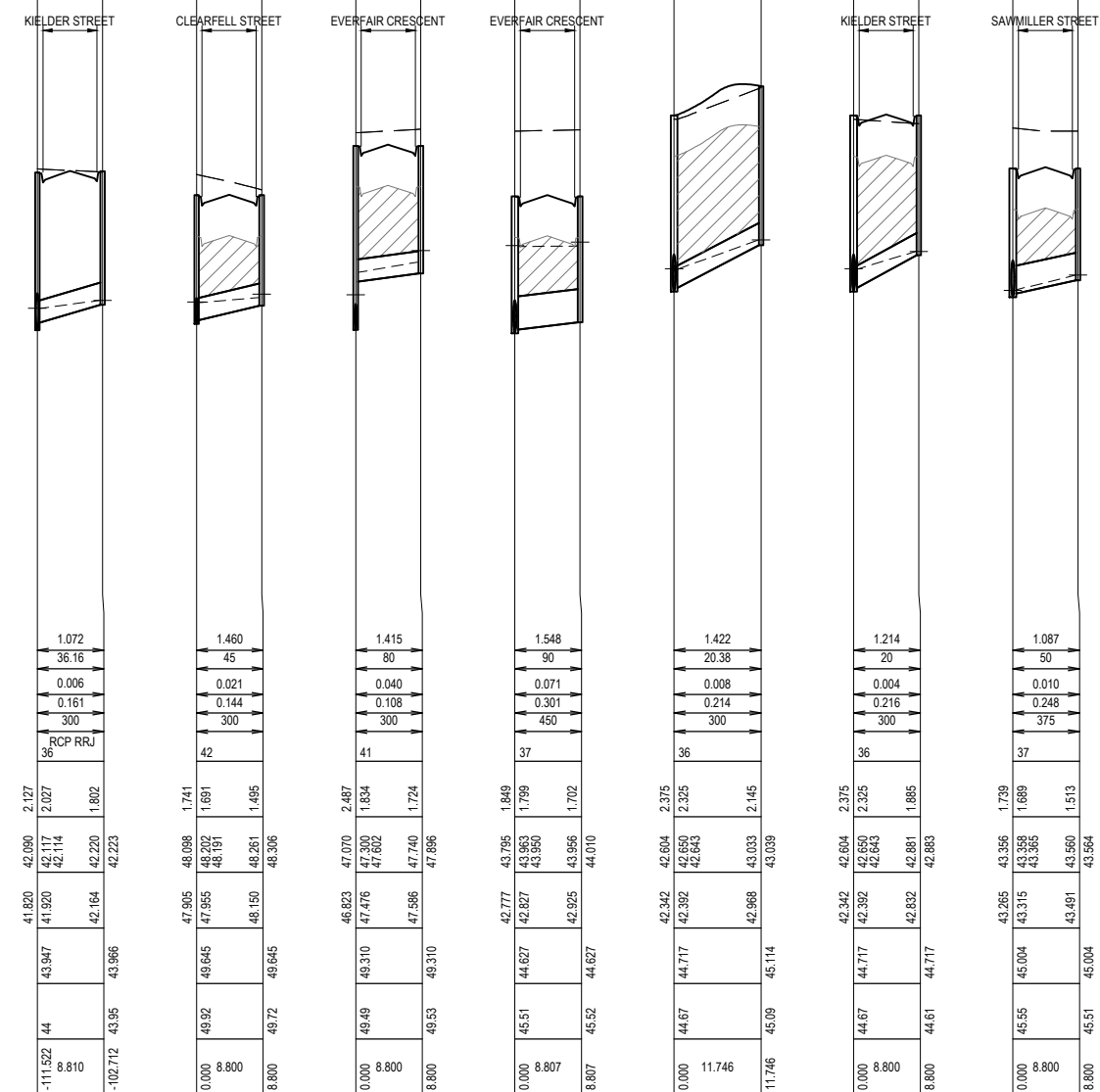
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CHECKED:	MIO	AUTH. DATE:	18/09/2020	CAD REF:	01177-04-E-140-145

CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 3 OF 6

SCALE	1:500 H, 1:50 V @ A1
VERSION	0
SHEET	43 OF 47
DRAWING No.	01177-04-E-142



	36	48	49	50	51	52
VELOCITY (m/s)	2.423	1.642	1.573		1.706	1.535
PIPE GRADE (1 in ...)	22.86	40.08	45.8		37.25	24.66
PIPE FLOW (m ³ /s)	0.062	0.030	0.031		0.031	0.012
PIPE CAPACITY (m ³ /s)	0.597	0.277	0.259		0.287	0.195
PIPE SIZE (mm)	450	375	375		375	300
DATUM	38					
DEPTH TO INVERT	2.425	2.379	1.591	1.083	2.017	1.313
HYDRAULIC GRADE LINE	42.887 42.973 42.954	43.369 43.398 43.387	43.833 43.843 43.846	44.457 44.467 44.468	45.682 45.695	47.416 47.427
INVERT LEVEL	42.841 42.886	43.198 43.248	43.709 43.759	44.332 44.382	45.555 45.630	47.333
DESIGN SURFACE	45.065	44.780	45.084	45.415	47.572	48.646
EXISTING SURFACE	45.35	45.6	46.42	46.18	47.61	48.62
CHAINAGE	0.000 11.702	11.702 18.457	30.159 26.250	56.409	43.700	100.109 42.000 142.109



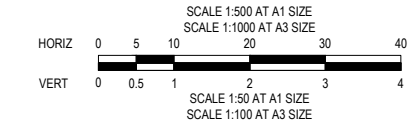
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CONTRACTOR



CONSTRUCTION
 ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

LEGEND	
	DENOTES 20mm CLASS 2 FCR BACKFILL

hillstowe
 by AVID Property Group

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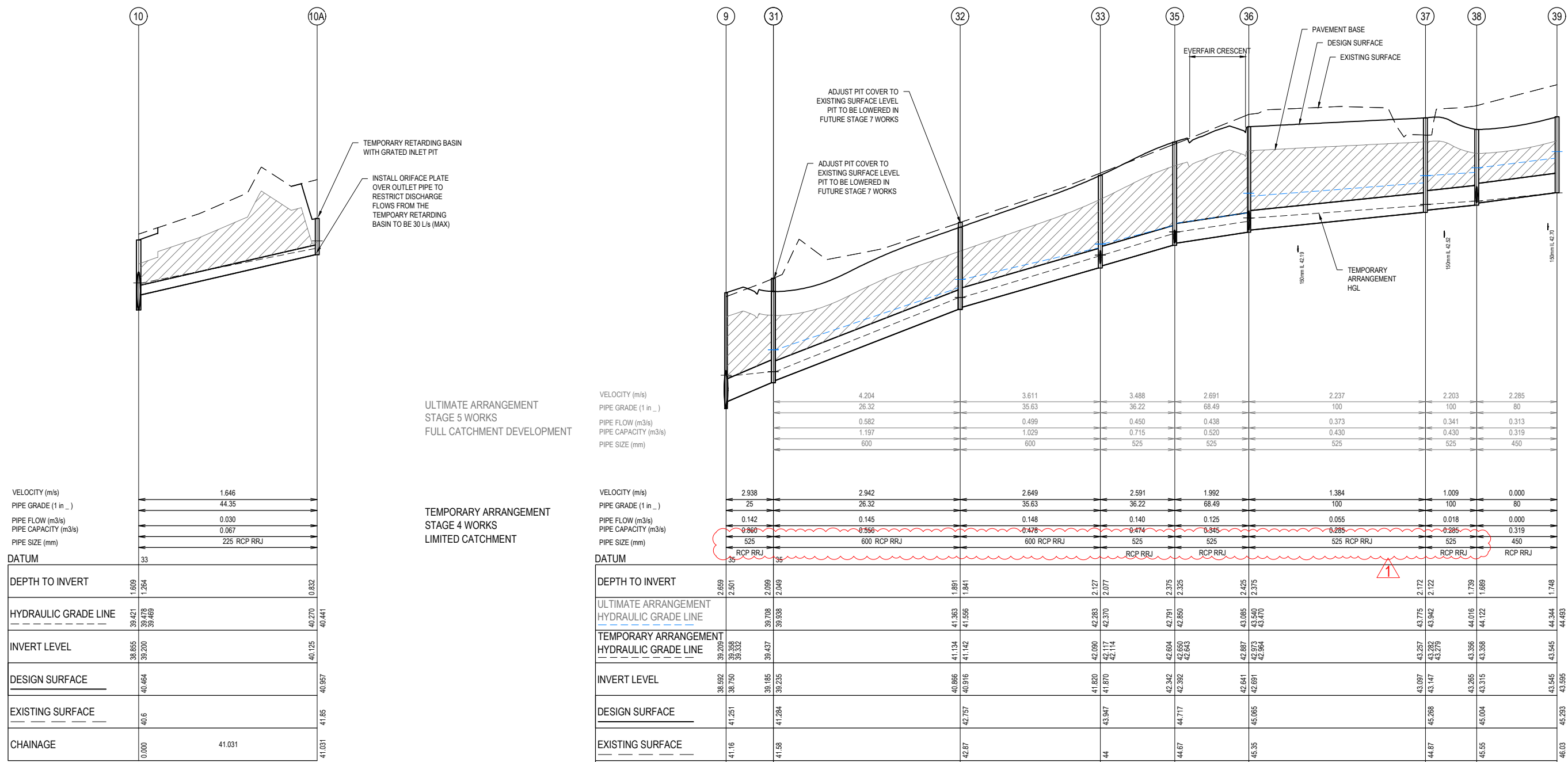
CARDINIA SHIRE COUNCIL

415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4

DRAINAGE LONGITUDINAL SECTIONS
 SHEET 4 OF 6

SCALE 1:500 H, 1:50 V @ A1

VERSION 0
 SHEET 44 OF 47
 DRAWING No. 01177-04-E-143



DATUM	
DEPTH TO INVERT	1.609 1.264 0.832
HYDRAULIC GRADE LINE	39.421 39.478 39.469 40.270 40.441
INVERT LEVEL	38.855 39.200 40.125
DESIGN SURFACE	40.464 40.957
EXISTING SURFACE	40.6 41.85
CHAINAGE	0.000 41.031 41.031

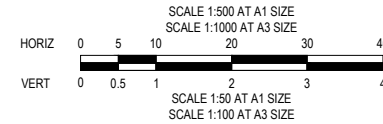
DATUM	
DEPTH TO INVERT	2.659 2.501 2.089 2.049 1.891 1.841 2.127 2.077 2.375 2.325 2.425 2.375 2.172 2.122 1.739 1.689 1.748
ULTIMATE ARRANGEMENT HYDRAULIC GRADE LINE	39.209 39.353 39.352 39.708 39.938 41.142 41.556 42.283 42.370 42.791 42.850 43.085 43.470 43.775 43.942 44.016 44.122 44.344 44.483
TEMPORARY ARRANGEMENT HYDRAULIC GRADE LINE	39.209 39.353 39.352 39.437 39.708 41.142 41.556 42.090 42.117 42.114 42.604 42.650 42.643 42.887 43.282 43.279 43.285 43.356 43.358 43.545
INVERT LEVEL	38.552 38.750 39.185 39.235 40.886 40.916 41.820 41.870 42.342 42.392 42.641 42.691 43.097 43.147 43.265 43.315 43.545 43.595
DESIGN SURFACE	41.251 41.284 42.757 43.947 44.717 45.065 45.268 45.004 45.55 45.293
EXISTING SURFACE	41.16 41.59 42.87 44 44.67 45.35 44.87 45.55 46.03
CHAINAGE	-111.522 10.870 -100.652 41.59 42.940 -57.711 32.200 -25.511 17.100 -8.411 17.024 8.613 40.600 48.213 11.789 61.002 18.457 78.459

- NOTES**
- PIPE CLASS TO BE CLASS 2 UNLESS NOTED OTHERWISE.
 - STRUCTURAL FILL USED ONLY WHEN EXISTING SURFACE IS BELOW FOOTPATH.

WARNING
BEWARE OF UNDERGROUND SERVICES
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WARNING
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CONTRACTOR



1	20/08/2021	DRAINAGE PIPE SIZES CORRECTED	EST
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST
VER	DATE	REVISION	APPD.

LEGEND

DENOTES 20mm CLASS 2 FCR BACKFILL

hillstowe
by AVID Property Group

TAYLORS
Urban Development | Infrastructure
8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2600 | Web: taylors.com.au

Coords: MGA Levels: AHD

DESIGNED:	LOD	AUTHORISED:	JOY	DRAFTED:	WGO
CHECKED:	MIO	AUTH. DATE:	18/09/2020	CAD REF:	01177-04-E-140-145

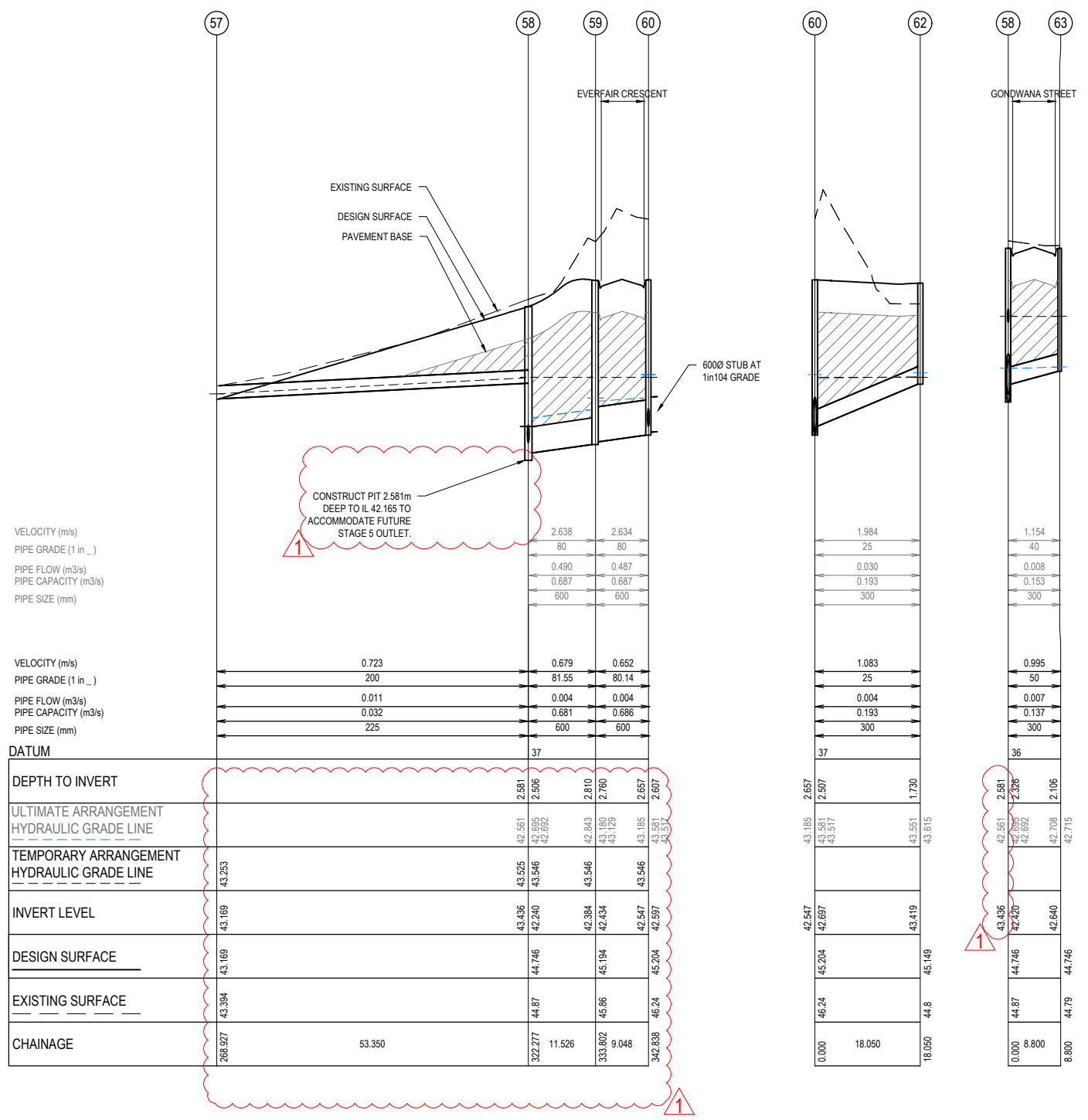
CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
DRAINAGE LONGITUDINAL SECTIONS
SHEET 5 OF 6

SCALE	1:500 H, 1:50 V @ A1
VERSION	1
SHEET	45 OF 47
DRAWING No.	01177-04-E-144



ULTIMATE ARRANGEMENT
STAGE 5 WORKS
FULL CATCHMENT DEVELOPMENT

TEMPORARY ARRANGEMENT
STAGE 4 WORKS
LIMITED CATCHMENT



VELOCITY (m/s)
PIPE GRADE (1 in _)
PIPE FLOW (m3/s)
PIPE CAPACITY (m3/s)
PIPE SIZE (mm)

VELOCITY (m/s)
PIPE GRADE (1 in _)
PIPE FLOW (m3/s)
PIPE CAPACITY (m3/s)
PIPE SIZE (mm)

DATUM

	57	58	59	60	60	62	58	63
DEPTH TO INVERT		2.638	2.634					
ULTIMATE ARRANGEMENT HYDRAULIC GRADE LINE		42.561	42.695	42.810	43.185	43.551	42.561	42.708
TEMPORARY ARRANGEMENT HYDRAULIC GRADE LINE	43.253	43.525	43.546	43.546	43.546	43.546	42.561	42.708
INVERT LEVEL	43.169	43.436	42.240	42.384	42.434	43.419	43.436	42.640
DESIGN SURFACE	43.169	44.746	44.746	45.194	45.204	45.149	44.746	44.746
EXISTING SURFACE	43.394	44.87	44.87	45.86	46.24	44.8	44.87	44.79
CHAINAGE	268.927	53.350	322.277	11.526	333.802	9.048	342.838	8.800

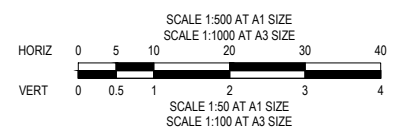
NOTES

- PIPE CLASS TO BE CLASS 2 UNLESS NOTED OTHERWISE.
- STRUCTURAL FILL USED ONLY WHEN EXISTING SURFACE IS BELOW FOOTPATH.



WARNING
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CONTRACTOR

CONSTRUCTION
ISSUED FOR CONSTRUCTION

VER	DATE	REVISION	APPD.
1	10/09/2021	MINOR AMENDMENT TO DRAINAGE	EST
0	20/08/2021	ISSUED FOR CONSTRUCTION - CONTRACTOR	EST

LEGEND
 DENOTES 20mm CLASS 2 FCR BACKFILL

hillstowe
by AVID Property Group

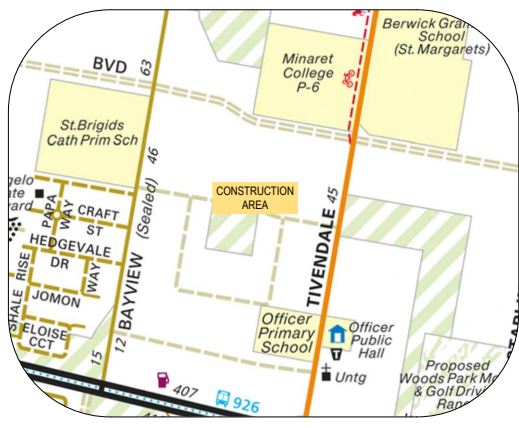
TAYLORS
Urban Development | Infrastructure
8/270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2600 | Web: taylors.com.au

DESIGNED: LOD AUTHORIZED: JOY DRAFTED: WGO
CHECKED: MIO AUTH. DATE: 18/09/2020 CAD REF: 01177-04-E-140-145

CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4

DRAINAGE LONGITUDINAL SECTIONS
SHEET 6 OF 6

SCALE 1:500 H, 1:50 V @ A1
VERSION 1
SHEET 46 OF 47
DRAWING No. 01177-04-E-145



LOCALITY PLAN

SCALE: N.T.S
MELWAYS: 214 H3

Schedule 8: Drawing Schedule

Drawing No.	Sheet No.	Title
20PD2713/S1	1	NOTES, SCHEDULES & LOCALITY PLAN
20PD2713/S2	2	DETAIL PLAN
20PD2713/S3	3	LONGITUDINAL SECTIONS SHEET 1 OF 2
20PD2713/S4	4	LONGITUDINAL SECTIONS SHEET 2 OF 2



WARNING

BEWARE OF UNDERGROUND SERVICES
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General Notes:

- Only contractors accredited by South East Water to SC1 and SC7 shall be eligible to construct these works.
- Only products approved and catalogued by the Water Agency shall be used.
- Works must be constructed according to the MRWA edition of the WSA Sewerage code of Australia WSA 02-2014-3.1.
- The design consultant is responsible for the design and coordination of the works. Any problem arising during construction shall be directed to the consultant.

Survey, Set Out and Asset Recording

- All contours and levels are in metres to the Australian height datum (A.H.D.)
- All co-ordinates shown are to map grid of Australia (MGA).
- Chainages shown on detail plans are discontinuous at maintenance structures.
- Chainages shown on long section sheets are continuous.
- Coordinates are to sewer line intersection point unless otherwise shown.
- Before commencement of work, the contractor must complete a level check between all TBM's to verify level values.
- TBM's and control points are to be maintained and protected at all times during construction.
- Should any marks be disturbed, the contractor will immediately notify the consultant to arrange re-instatement at the contractors expense.

Property Connections

- Number of lots to be sewered: 37 + 20 future lots
- All property connections to be DN100 unless otherwise indicated.
- Properties requiring boundary traps are indicated in the detailed plans. The remainder do not require boundary traps.
- Branch tie distance shown on detail plan are from approved subdivision survey pegs. Branch ties for future lots are shown as a chainage. (Ch) Distance is from the downstream sewer structure.
- Invert level of the property connection point is shown opposite the branch position.
- Where a Spur Branch connects to a shaft, both property connections are considered to be shaft connections

Earthworks and Retaining Walls:

- In areas subject to earthworks, construction of sewers shall not commence until earthworks has been completed unless written approval has been given by the Water Authority.

Embedment

- Embedment shall be Type A (refer MRWA-S-202) unless otherwise specified on the long section.

Backfill

- Selection and compaction of trench backfill material shall be in accordance with the Water Agency adopted version of MRWA specification no 04-03.
- Refer to Long Section drawings for backfill requirements.

Compaction Testing

- Test results shall be provided to the superintendent prior to practical completion / acceptance of works.
- The contractor is required to undertake all testing of fill compaction in accordance with the Water Agency adopted version of the MRWA Backfill Specification 04-03.

Work on Live Sewers:

- All works on live sewers must be carried out by a water company accredited contractor.
- All existing sewers must be plugged to stop gas emissions prior to any connections being made to these sewers.

- To enable connections to live assets or any work on live assets, the contractor shall submit the appropriate forms to the superintendent at least 3 working days prior to any works on live sewers.
- The contractor is not permitted to break into an existing live pipeline, enter a live sewer or remove the cover to a live maintenance structure unless authorised by the Water Agency.

Safety:

- Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health and Safety Act 2004 and Occupational Health and Safety regulations 2007, have been and will be complied with.

Testing:

- The contractor is to give a minimum of two (2) days notice to the superintendent and Water Agency prior to the testing being undertaken. Testing is to be undertaken in the presence of superintendent.

Cultural Heritage Requirements

- The contractor is to keep a copy of the approved cultural heritage management plan on site at all times during works.

Environmental Management Plan:

- On commencement of construction works the contractor must comply with the recommendations of the EPA publication "construction techniques for sediment pollution control" (publication no 275 1991).
- All trees and vegetation are to be protected unless otherwise indicated for removal. The extent of any vegetation removal shall be confirmed on site with the superintendent and local council prior to commencement, and in accordance with any planning permits. Any removal shall be documented.
- All areas containing creek vegetation, trees and revegetated areas near the construction zone are to be fenced off during the works with secure and highly visible material such as para-webbing fencing.
- Ensure all machinery, equipment and/or footwear entering the site is weed and pathogen free.

Schedule 1: New Pipe

Pipe Size	Pipe Type	Length (m)	Pipe Class	Standard
DN150	UPVC-DWV	556.2	SN8	WSA PS 230
DN100	UPVC-DWV	18.2	SN10	WSA PS 230

Schedule 2: Property Connections

Connection Type	Type 1a	Type 1b	Type 2	Type 4a	Type 4b	Type S	Type 4S	Type B	Type 4B	Jump Up Type F Couplings (TY2 or 4)
Quantities	1	2	38	-	1	7	-	1	7	8

Schedule 3: Road Reserve Service Offsets (m) and Locations:

Street	Gas	Water	NDW	Comms	Elec.	Lighting
Everfair Crescent (Lots 418-426 & 401)	E 2.10	E 3.10	E 2.50	W 1.00	W 2.60	1.0 BOK
Everfair Crescent (Lots 412-418 & 434-437)	N 2.10	N 3.10	N 2.50	S 1.80	S 2.60	1.0 BOK
Clearfell Street (Lots 403-412)	W 2.10	W 3.10	W 2.50	E 1.80	E 2.60	1.0 BOK
Clearfell Street (Lots 401-403)	S 1.95	S 2.95	S 2.35	N 1.00	N 2.50	1.0 BOK
Kielder Street	E 2.10	E 3.10	E 2.50	W 1.80	W 2.60	1.0 BOK
Sawmiller Street	E 2.10	E 3.10	E 2.50	W 1.80	W 2.60	1.0 BOK
Gondwana Street	E 2.10	E 3.10	E 2.50	W 1.80	W 2.60	1.0 BOK
Applebush Walk	S 1.85	S 2.75	S 2.25	S 3.35	S 3.75	1.0 BOK

Schedule 4: Maintenance Structures

Maintenance Structure	Type	Cover Class	Depth to Invert	Shaft Connections	Easting	Northing	Comments/References (Offsets/Details)
ABC4-1MS	MS	B	2.651	-	360364.690	5786624.990	4-WAY MS
ABC1-3MS	MS	B	2.854	-	360357.508	5786604.090	-
ABC1-2MC	MC	B	3.071	1xDN100	360326.750	5786608.898	-
ABC2-2MS	MS	B	2.201	2xDN100	360275.984	5786642.195	4-WAY MS
ABC2-3MS	MS	B	2.303	2xDN100	360287.256	5786714.319	4-WAY MS
ABC2-4MS	MS	B	1.549	-	360291.472	5786741.292	4-WAY MS
ABC4-3MS	MS	B	2.926	1xDN100	360338.691	5786635.430	4-WAY MS
ABC4-4MS	MS	B	2.393	1xDN100	360347.107	5786689.276	-
ABC6-1MS	MS	B	2.071	-	360371.025	5786587.808	-

Schedule 5: Water Agency Granted Dispensations

ID	Location	Asset / Feature	Description of Dispensation Accepted
117669	LOT 437	Reduced Offset	Accepted

Schedule 6: Maintenance Holes

Maintenance Structure	MH Type	MH Top Type	Cover Class	Internal Diameter	Min Wall Thickness	Depth Lowest Invert	Drops	Ladder, Step Irons, Landing	Corrosion Protection	Shaft Reinforcement	Comments (Offsets/Details)	Easting	Northing
ABC1-1MH	MH	Conical	B	1050	150	3.311	1xDN150	S	-	-	-	360244.746	5786621.715
ABC1-4MH	MH	Conical	B	1050	150	1.584	1xDN100	S	-	-	-	360399.072	5786597.594
ABC2-1MH	MH	Conical	B	1050	150	2.461	-	S	-	-	-	360248.106	5786643.212
ABC4-2MH	MH	Conical	B	1050	150	2.644	-	S	-	-	-	360365.154	5786627.954
ABC4-5MH	MH	Conical	D	1050	150	2.229	-	S	-	-	-	360354.442	5786736.207
ABC5-1MH	MH	Conical	B	1050	150	2.489	-	S	-	-	-	360378.522	5786622.826

Schedule 7: Water Seals, Boundary Traps and Syphons

Structure Type	Boundary Trap	Water Seals	Syphons
Quantity	0	0	0

CONTRACTOR **ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED
2	AMENDED PROPERTY CONNECTIONS	27/10/2021	MIO				
1	ISSUED FOR CONSTRUCTION - CONTRACTOR	15/09/2021	MIO				
0	ISSUED FOR CONSTRUCTION	15/06/2021	MIO				

DESIGNED	L. DUNN	PROJECT NUMBER	01177-04-E
DATE:	11/05/2021	MELWAY REFERENCE	214 H3
DRAWN	W. GOH	AUTHORISED	J. YALDEN
DATE:	14/05/2021	DATE:	18/09/2020
CHECKED	M. OLTHOF		
DATE:	15/06/2021		

TAYLORS
Urban Development | Infrastructure
8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2800 | Web: taylorsds.com.au



SOUTH EAST WATER
CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
NOTES, SCHEDULES & LOCALITY PLAN
SEWER RETICULATION

SCALE: AS SHOWN @A3
SHEET: 1 OF 4
DRAWING No.: 20PD2713
REV S1
2



SYMBOLS LEGEND

- MAINTENANCE HOLE (MH)
- MAINTENANCE CHAMBER (MC)
- MAINTENANCE SHAFT (MS)
- PIPE STUB
- RETAINING WALL
- EARTH WALL
- ROCK RETAINING WALL
- W- WATER MAINS
- G- GAS MAINS
- E- ELECTRICAL CABLES
- T- COMMS CABLES
- D- DRAINAGE

ABBREVIATIONS LEGEND

- FS = Finished Surface Level
- ES = Existing Surface Level
- TB = Top of Batter
- IL = Invert Level
- TP = Tangent Point
- TY = Property Connection Type

PROPERTY SERVICE TYPES

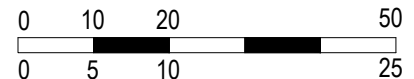
- TY1a (no jump up & 45° junction fitting)
- TY1b (no jump up & 60° junction fitting)
- TY2 (jump up adjacent to main)
- TY4b (offset jump up & 60° junction fitting)
- TY4B (offset jump up connected to base)
- TYB (no jump up & connected to base)
- TYS (no jump up & connected to shaft)
- TY2F (TY2 with flexible coupling)
- TY4SF (TY4S with flexible coupling)

T.B.M. SCHEDULE

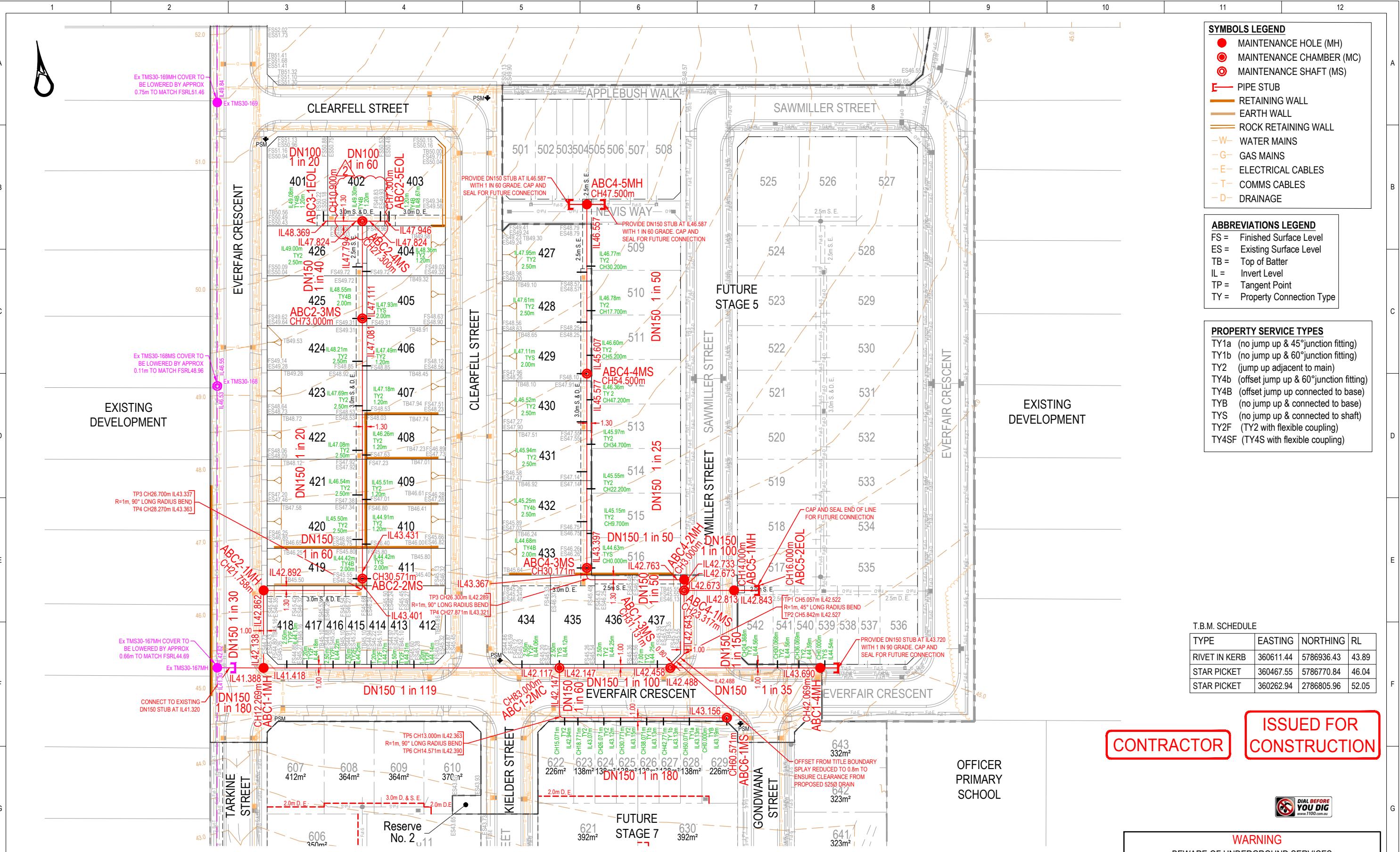
TYPE	EASTING	NORTHING	RL
RIVET IN KERB	360611.44	5786936.43	43.89
STAR PICKET	360467.55	5786770.84	46.04
STAR PICKET	360262.94	2786805.96	52.05

CONTRACTOR **ISSUED FOR CONSTRUCTION**

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DETAIL PLAN



REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED
2	REVISED PROPERTY CONNECTION FOR LOT-402	26/10/2021	MIO				
1	ISSUED FOR CONSTRUCTION - CONTRACTOR	15/09/2021	MIO				
0	ISSUED FOR CONSTRUCTION	15/06/2021	MIO				

DESIGNED	L.DUNN	PROJECT NUMBER	01177-04-E
DATE	11/05/2021		
DRAWN	W.GOH	MELWAY REFERENCE	214 H3
DATE	14/05/2021		
CHECKED	M.OLTHOF	AUTHORISED	J.YALDEN
DATE	15/06/2021		18/09/2020

TAYLORS
Urban Development | Infrastructure
8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
Tel: 61 3 9501 2800 | Web: taylorso.com.au



SOUTH EAST WATER
CARDINIA SHIRE COUNCIL
415 PRINCES HIGHWAY, OFFICER VIC 3809
HILLSTOWE ESTATE, STAGE 4
DETAIL PLAN
SEWER RETICULATION

SCALE: AS SHOWN @A3

SHEET: 2 OF 4	REV
DRAWING No.: 20PD2713	2
S2	

EMBEDMENT & BACKFILL DETAILS:

- Embedment shall be Type A unless stated otherwise.
- Backfill Type O is ordinary fill, to be selected and installed as per MRWA Backfill Specification 04-03.1
- Type F is to be installed as per Figure 1

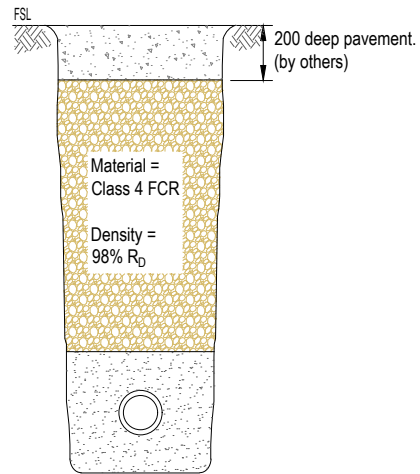


Figure 1: Type F Backfill

- Type R is to be installed as per Figure 2.
- Type R backfill is to be used under all road pavement.

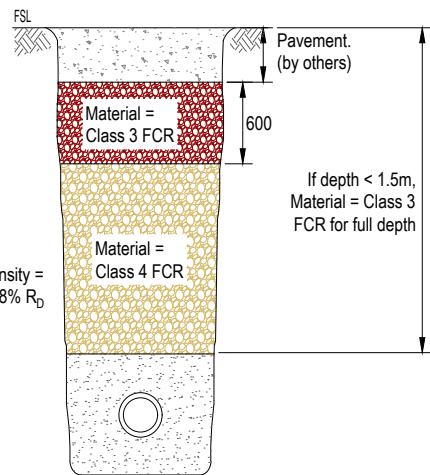
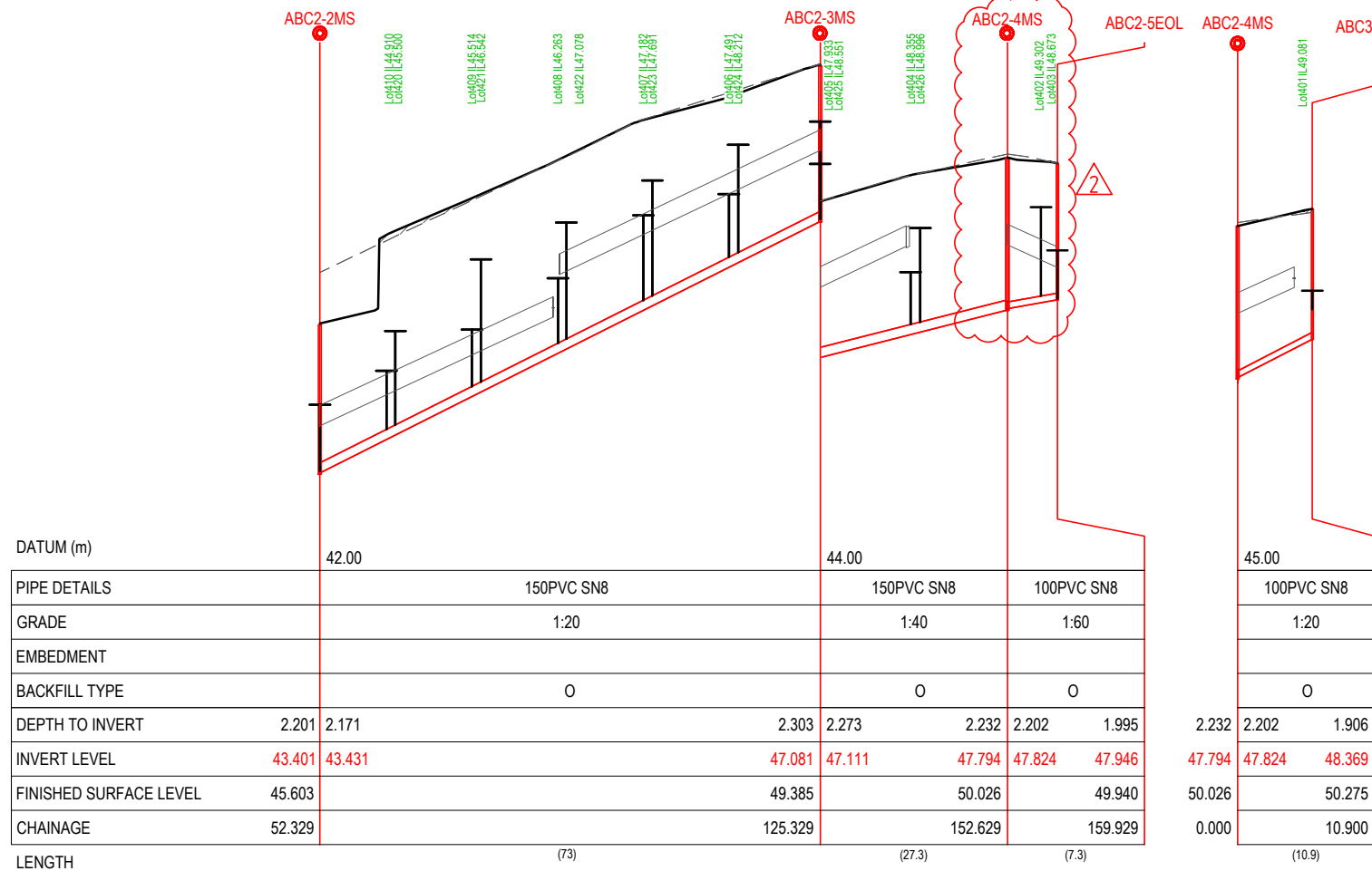
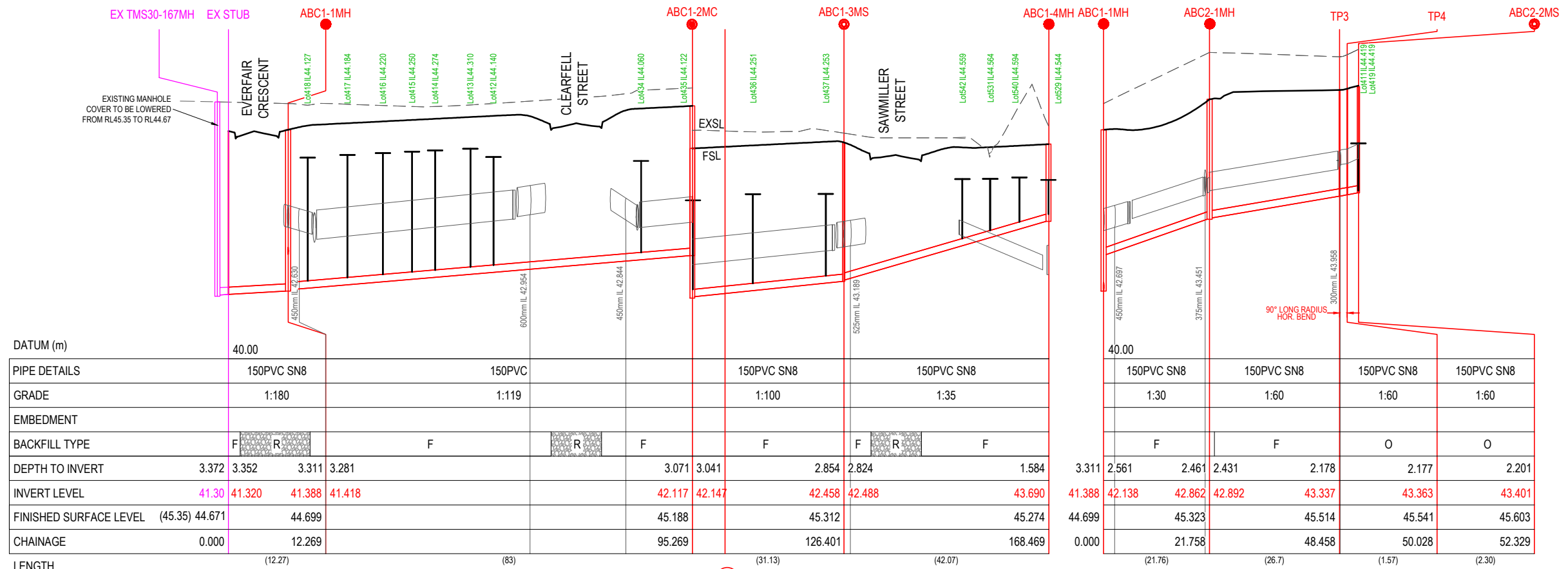


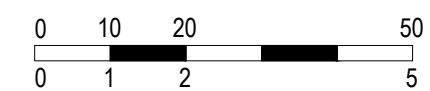
Figure 2: Type R Backfill

OTHER NOTES:

Provide a 30mm drop through the chase for Maintenance Chambers and Shafts.



FILL SHOWN THUS: TENDERS SHOULD BE PREPARED ON THE BASIS THAT EARTHWORKS SHOWN SHADED SHOULD BE COMPLETED PRIOR TO THE COMMENCEMENT OF WORKS.



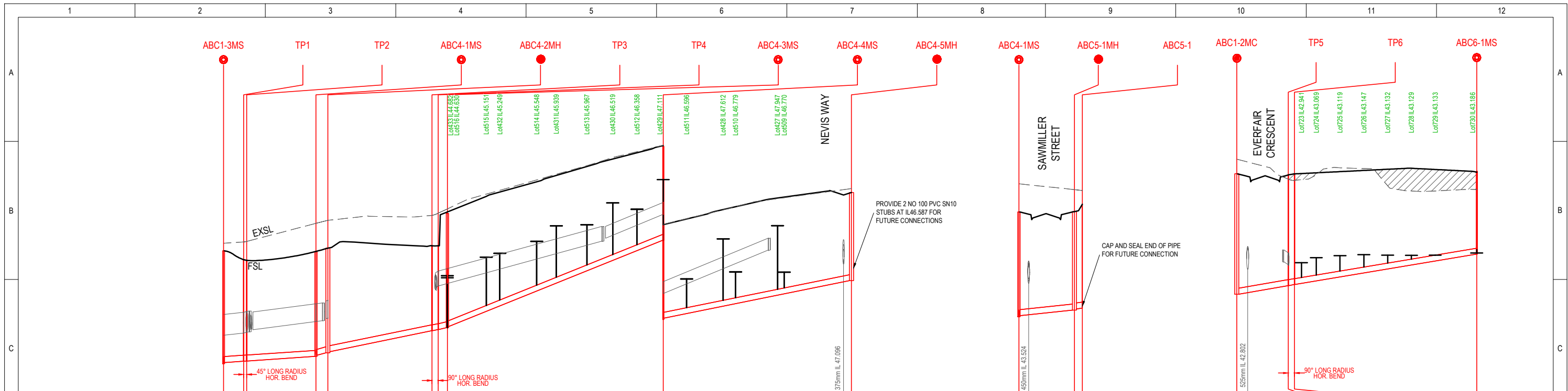
Scale H 1:1000 V 1:100 @ A3

CONTRACTOR


ISSUED FOR CONSTRUCTION

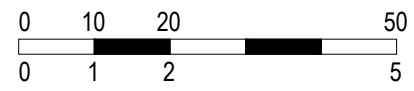
REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED
2	REVISED PROPERTY CONNECTION FOR LOT-402	26/10/2021	MIO				
1	ISSUED FOR CONSTRUCTION - CONTRACTOR	15/09/2021	MIO				
0	ISSUED FOR CONSTRUCTION	15/06/2021	MIO				

<p>DESIGNED: L. DUNN DATE: 11/05/2021</p> <p>DRAWN: W. GOH DATE: 14/05/2021</p> <p>CHECKED: M. OLTHOF DATE: 15/06/2021</p>	<p>PROJECT NUMBER: 01177-04-E</p> <p>MELWAY REFERENCE: 214 H3</p> <p>AUTHORISED: J. YALDEN DATE: 18/09/2020</p>	<p>TAYLORS Urban Development Infrastructure 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9501 2800 Web: taylorsds.com.au</p>	<p>SOUTH EAST WATER CARDINIA SHIRE COUNCIL 415 PRINCES HIGHWAY, OFFICER VIC 3809 HILLSTOWE ESTATE, STAGE 4 LONGITUDINAL SECTIONS SHEET 1 OF 2 SEWER RETICULATION</p>	<p>SCALE: AS SHOWN @A3</p> <p>SHEET: 3 OF 4</p> <p>DRAWING No.: 20PD2713</p> <p>REV: 2</p>
--	---	--	---	--



DATUM (m)	41.00										43.00		40.00		39.00							
PIPE DETAILS	150PVC SN8		150PVC SN8		150PVC SN8		150PVC SN8		150PVC SN8		150PVC SN8		150PVC SN8		150PVC SN8		150PVC SN8					
GRADE	1:150		1:150		1:150		1:50		1:50		1:50		1:25		1:50		1:50					
EMBEDMENT	F		F		F		F		F		O		O		O		O					
BACKFILL TYPE	F		F		F		F		F		O		O		O		O					
DEPTH TO INVERT	2.854	2.824	2.566	2.544	2.651	2.621	2.644	2.614	2.149	2.115	2.926	2.896	2.393	2.363	2.229	2.651	2.621	2.489	2.459	2.625		
INVERT LEVEL	42.458	42.488	42.522	42.527	42.643	42.673	42.733	42.763	43.289	43.321	43.367	43.397	45.577	45.607	46.557	46.587	42.643	42.673	42.813	42.843	42.863	
FINISHED SURFACE LEVEL	45.312	45.088	45.071	45.294	45.378	45.438	45.438	45.436	46.293	47.970	48.786	46.587	45.294	45.294	45.294	45.294	45.294	45.302	45.489	45.489	45.489	
CHAINAGE	0.000	5.057	5.842	23.317	26.317	52.617	54.188	56.488	110.988	158.488	0.000	14.000	16.000	0.000	13.000	14.571	60.571	0.000	13.000	14.571	60.571	
LENGTH	(5.06)		(0.79)		(17.48)		(3)		(26.3)		(1.57)		(2.3)		(54.5)		(47.5)		(14)		(2)	

FILL SHOWN THIS: 
 TENDERS SHOULD BE PREPARED ON THE BASIS THAT EARTHWORKS SHOWN SHADED SHOULD BE COMPLETED PRIOR TO THE COMMENCEMENT OF WORKS.



ISSUED FOR CONSTRUCTION

DESIGNED	L. DUNN	PROJECT NUMBER	01177-04-E
DATE	11/05/2021	MELWAY REFERENCE	214 H3
DRAWN	W. GOH	AUTHORISED	J. YALDEN
DATE	14/05/2021	DATE	18/09/2020
CHECKED	M. OLTHOF	DATE	15/06/2021

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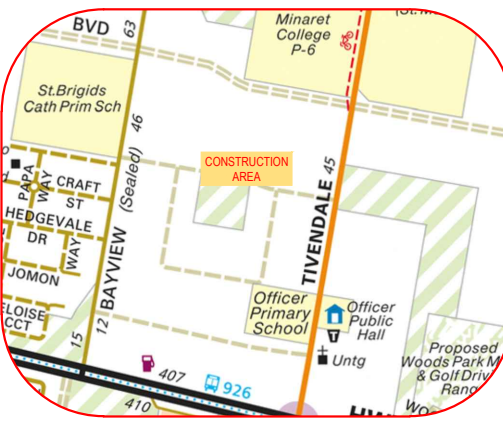


SOUTH EAST WATER
 CARDINA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4
 LONGITUDINAL SECTIONS SHEET 2 OF 2
 SEWER RETICULATION

SCALE: AS SHOWN @A3
SHEET: 4 OF 4
DRAWING No.: 20PD2713
REV S4
REV 1

DRINKING WATER
DESIGN HEAD: 63 m
ZONE: RESIDENTIAL
TEST PRESSURE: 1000 kPa

NON-DRINKING WATER
DESIGN HEAD: 58 m
ZONE: RESIDENTIAL
TEST PRESSURE: 1000 kPa



LOCALITY PLAN

SCALE: N.T.S.
MELWAYS: 214 H3

WARNING
BEWARE OF UNDERGROUND SERVICES
 THE LOCATION 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.

WARNING
BEWARE OF ASBESTOS
 SOME UNDERGROUND SERVICES MAYBE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD



FOR THE DURATION OF PROCLAIMED WATER RESTRICTIONS, THE CONTRACTOR SHALL CONFORM WITH THE RESTRICTIONS AND ANY OTHER WATER CONSERVATION REQUIREMENTS IMPOSED BY THE WATER AGENCY.

General Notes:

- Only contractors accredited by South East Water to WC1 shall be eligible to construct these works.
- Only products approved and catalogued by the Water Agency shall be used.
- Works must be constructed according to WSA 03- 2011 MRWA edition.
The Contractor shall ensure that they are conversant with all current revisions, amendments and updates that the relevant Water Agency has made to their standards.
- DW and NDW assets shall only be constructed after deeper assets affecting the water mains have been constructed (eg: sewerage & drainage assets).
- This design is to be read in conjunction with road and drainage plans.
- The Contractor shall obtain a road opening permit for any works within the road reserve and comply with all requirements of the road owner.

Survey, Set Out and Asset Recording

- Temporary Bench Marks (TBM) for the set out of works to the Australian Height Datum (AHD) are provided in the design drawings. All levels are in metres to AHD.
- All co-ordinates are in metres to the Map Grid of Australia (MGA 55- 94).
- The Contractor is directly responsible for ensuring the project set out is consistent with the design. Should actual site conditions conflict in any way with that documented, the Contractor shall contact the Superintendent for clarification before proceeding.
- The Contractor is to engage a suitably qualified and experienced Surveyor to undertake asset recording of the work. All surveyor works and data recording shall be undertaken in accordance with the MRWA survey manual.
- All specific pipe materials (eg: PVC-O) shall be indicated in the As Constructed information

Products and Materials (Refer Table 1 & 2)

- DW and NDW system components shall be differentiated as per section 4.2 of WSA03-2011, MRWA edition.

Appurtenances (Fittings- Refer Table 3)

Water Main Alignment, Trenching & Cover (Refer Table 5)

- Offsets of mains from property boundaries shall be; min 600mm (mains < DN100) and min 1m (mains ≥DN100).
- All water mains shall pass over drains and sewers unless shown otherwise in the design drawings.

Table 7. Vertical Clearances

Existing or Proposed Service	Minimum vertical clearance (mm)
Water mains < DN375	150
Water mains >DN375	300
Gas mains	150
Teleco conduits and cables	150
Existing or Proposed Service	Minimum vertical clearance (mm)
Electricity conduits and cables	225
Stormwater drains & pits	150
Sewers - gravity	500
Sewers - pressure & vacuum	300

- Vertical clearance between water mains shall depend on the larger main diameter.
- Water mains shall cross over sewers and drains unless shown otherwise.
- Maintain additional clearance from High Voltage electrical cables to allow for a protective barrier and marking.

Embedment

- Embedment shall be placed as per drawings MRWA-W-201 and MRWA-W-202.

Backfill

- Road reserve backfill and compaction shall be in accordance with MRWA-W-201 and MRWA-W-202
- Non trafficable backfill shall be completed as per MRWA-W-201 and the current version of the MRWA Backfill Specification.

Thrust Restraint (Refer Table 6)

- Thrust restraints have been designed on the basis of the AHBP (ground strength) nominated in TABLE 6. The Contractor shall confirm the actual ground conditions and discuss with the Superintendent any ground conditions which are found to be different to that nominated.

Property Services

- NDW property services shall always be located on the left of the DW property service as you look from the road to the front of the property.

Connections (All types)

- All property service connections to new residential RRJ reticulation mains are to be completed using pretapped connectors.

Other Services (Ref- Table 5 & 7)

- To receive the most up to date information prior to construction, "Dial before you Dig" shall be undertaken to aid in the location of other services. Other services shall be carefully located prior to full excavation at the contractor's cost. Any clashes of proposed new works with other assets shall be reported to the Superintendent immediately for clarification.
- Clearances to other services shall be as per Table 7 and Table 5.5 of WSA03- 2011 MRWA edition. These clearances shall apply to surface covers as well as underground assets.

Earthworks and Retaining Walls:

- In areas subject to earthworks, construction of water assets shall not commence until earthworks and retaining walls has been completed unless written approval has been given by the Water Authority.

Table 6. Thrust Restraint Schedule

Location	Type	Thrust	AHBP (kPa) USED	Area (m ²), or W(m) x Y(m)	No. Locations
A	In Line	2 x (DN125 VALVES + PE THERMAL SHRINKAGE)	50	1.10 (tot)	3
B	Plain	2 x DN100 x DN100 TEES	50	0.46 (tot)	1
C	In Line	2 x DN125 PE THERMAL SHRINKAGE	50	0.86 (tot)	2
D	Plain	2 x DN150 x DN100 TEES	50	0.46 (tot)	2
E	In Line	2 x DN150 VALVES	50	0.96 (tot)	2
F	In Line	2 x DN100 VALVES	50	0.60 (tot)	2
G	Plain	2 x DN100 WASHOUTS	50	0.46 (tot)	2
H	Plain	2 x DN150 x DN150 TEE	50	0.96 (tot)	1
I	Plain	2 x DN150 WASHOUTS	50	0.96 (tot)	1
J	In Line	2 x DN125 VALVES + PE THERMAL SHRINKAGE + 90° BEND	50	1.74 (tot)	1

Testing, Asset Acceptance and Live Connections

- Post construction activities (of both DW & NDW) such as swabbing, water quality testing, pressure testing and chlorination shall be carried out in accordance with WSA03-2011 MRWA edition and the MRWA Water Quality Compliance Specification. All test results shall be documented and reported to the Superintendent.
- The Water Agency shall be notified in writing 2 full working days in advance of testing being undertaken.
- Both ends of DW and NDW main to meter property services shall be inspected by the Water Agency. The Water Agency shall be notified in writing 2 full working days in advance of this inspection being carried out. Both ends of DW-NDW main to meter property services are to remain exposed until inspected by the Water Agency compliance officer.
- The Contractor's ITP shall include provision for each NDW connection to be signed off as correctly installed. The Water Agency shall be notified in writing 5 SEW full working days in advance of connection to the live network being undertaken. Shut down work shall be as short as practical and scheduled to commence at 9am on working days with completion to occur no later than 4pm.
- Valves connecting new assets to the Water Agency's live system shall not be operated by the Contractor.

Table 1. New Pipe Schedule

New Work			Drinking Main	Non-drinking Main
Size (DN)	Type	Class	Length	Length
150	PVC - M	16	359	358
100	PVC - M	16	255	255
125	PE100	16	70	71
25	PE100	16	Property Services	Property Services

Table 2. Pipe Material Schedule

Material	Reference	Material	Reference
PVC-M	WSA-PS-209	PE (Retic & submain)	WSA-PS-207
		PE (Property services)	WSA-PS-215

Table 3. Hydrant & Washout Schedule

Main Size	Fitting Type	Ownership	Location	Street	Location
100	HYDRANT	DW - SEW	In Line	CLEARFELL STREET	2.0m E of WBL Lot 401 Splay
100	HYDRANT	NDW - Council	In Line	CLEARFELL STREET	2.6m E of WBL Lot 401 Splay
100	HYDRANT	DW - SEW	In Line	CLEARFELL STREET	4.9m W of Applebush Walk WBL
100	HYDRANT	NDW - SEW	In Line	CLEARFELL STREET	4.3m W of Applebush Walk WBL
100	HYDRANT	NDW - Council	In Line	CLEARFELL STREET	4.9m S of NBL Lot 407
150	WASHOUT	DW - SEW	End of Line	EVERFAIR CRESCENT	0.6m E of Title BL
150	WASHOUT	NDW - SEW	End of Line	EVERFAIR CRESCENT	On Title BL
100	WASHOUT	DW - SEW	End of Line	SAWMILLER STREET	3.7m N of Title BL
100	WASHOUT	NDW - SEW	End of Line	SAWMILLER STREET	3.1m N of Title BL
100	HYDRANT	DW - SEW	In Line	GONDWANA STREET	3.1m S of Title BL
100	HYDRANT	NDW - Council	In Line	GONDWANA STREET	3.7m S of Title BL
100	HYDRANT	DW - SEW	In Line	KIELDER STREET	6.0m S of NBL Lot 723 Splay
100	HYDRANT	NDW - Council	In Line	KIELDER STREET	6.6m S of NBL Lot 723 Splay
100	WASHOUT	DW - SEW	End of Line	KIELDER STREET	On Title BL
100	WASHOUT	NDW - SEW	End of Line	KIELDER STREET	0.6m S of Title BL
100	HYDRANT	DW - SEW	In Line	TARKINE STREET	3.7m S of Title BL
100	HYDRANT	NDW - Council	In Line	TARKINE STREET	3.1m S of Title BL
100	HYDRANT	DW - SEW	In Line	TARKINE STREET	6.3m S of Title BL
100	HYDRANT	NDW - SEW	In Line	TARKINE STREET	5.7m S of Title BL

Table 4. Curved Pipe & Deflection Schedule

Location	Method	Offset/Radius (m)	Total Pipe Length (m)	Pipe Lengths (m)
-	-	-	-	-

Table 5. Service Alignment Schedule (offsets in m)

Location	Water	ND-Water	Gas	Comms	Elec	Poles	BOK
EVERFAIR CRESCENT (LOTS 418-426 & 401)	3.10 E	2.50 E	2.10 E	1.00 W	2.60 W	1.0 W	BOK
TARKINE STREET	3.10 E	2.50 E	2.10 E	1.00 W	2.60 W	1.0 W	BOK
EVERFAIR CRESCENT (LOTS 412-418 & 434-437)	3.10 N	2.50 N	2.10 N	1.80 S	2.60 S	1.0 E	BOK
CLEARFELL STREET (LOTS 403-412)	3.10 W	2.50 W	2.10 W	1.80 E	2.60 E	1.0 E	BOK
CLEARFELL STREET (LOTS 401-403)	2.95 S	2.35 S	1.95 S	1.00 N	0.50 N	1.0 N	BOK
KIELDER STREET	3.10 E	2.50 E	2.10 E	1.80 W	2.60 W	1.0 W	BOK
SAWMILLER STREET	3.10 E	2.50 E	2.10 E	1.80 W	2.60 W	1.0 W	BOK
GONDWANA STREET	3.10 E	2.50 E	2.10 E	1.80 W	2.60 W	1.0 W	BOK
APPLEBUSH WALK	2.75 S	2.25 S	1.85 S	3.35 S	3.75 S	3.5 S	BOK

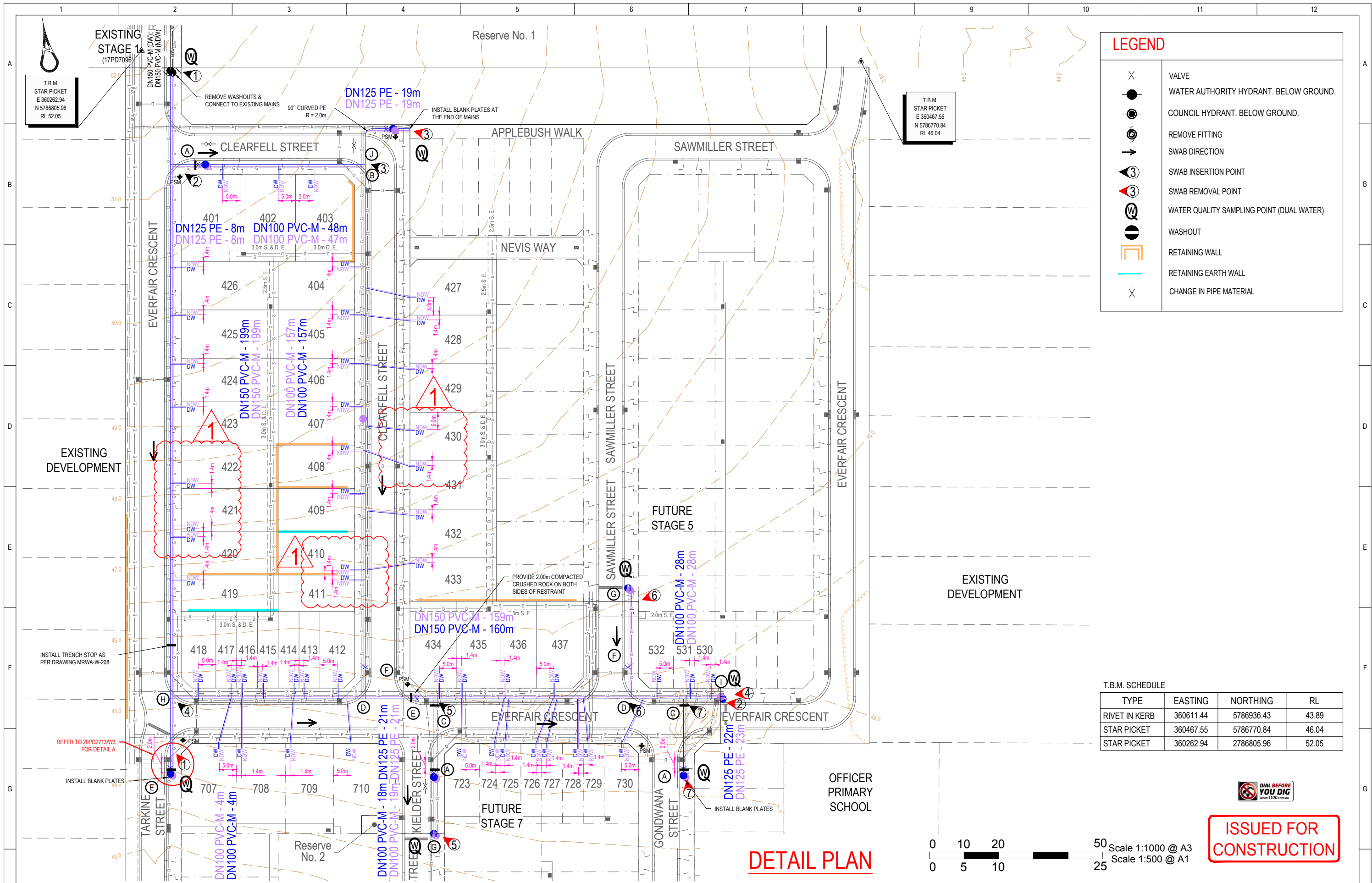
ISSUED FOR CONSTRUCTION

DESIGNED: E.STAINES DATE: 16/09/2020			PROJECT NUMBER: 01177-04-E		
DRAWN: W.BROWN DATE: 14/09/2020			MELWAY REFERENCE: 214 H3		
CHECKED: M.OLTHOF DATE: 15/06/2021			AUTHORISED: J.YALDEN DATE: 18/09/2020		
0	ISSUED FOR CONSTRUCTION	15/06/2021	MIO		
REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION
1				2	



SOUTH EAST WATER
 CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4
 NOTES, SCHEDULES & LOCALITY PLAN
 WATER RETICULATION

SCALE: AS SHOWN @A3
 SHEET: 1 OF 3
 DRAWING No.: 20PD2713
 W1
 REV 0



LEGEND

- X VALVE
- WATER AUTHORITY HYDRANT. BELOW GROUND.
- COUNCIL HYDRANT. BELOW GROUND.
- ⊗ REMOVE FITTING
- SWAB DIRECTION
- ③ SWAB INSERTION POINT
- ③ SWAB REMOVAL POINT
- ⊗ WATER QUALITY SAMPLING POINT (DUAL WATER)
- ⊖ WASHOUT
- ▭ RETAINING WALL
- ▭ RETAINING EARTH WALL
- ⊗ CHANGE IN PIPE MATERIAL

T.B.M. SCHEDULE

TYPE	EASTING	NORTHING	RL
RIVET IN KERB	360611.44	5786936.43	43.89
STAR PICKET	360467.55	5786770.84	46.04
STAR PICKET	360262.94	2786805.96	52.05

ISSUED FOR CONSTRUCTION



DETAIL PLAN

REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED
1	PROPERTY CONNECTIONS UPDATED	26/10/2021	MIO				
0	ISSUED FOR CONSTRUCTION	15/06/2021	MIO				

DESIGNED	E.STAINES	PROJECT NUMBER	01177-04-E
DATE	16/09/2020	MELWAY REFERENCE	214 H3
DRAWN	W.BROWN	DATE	14/09/2020
CHECKED	M.OLTHOF	AUTHORISED	J.YALDEN
DATE	15/06/2021	DATE	18/09/2020

TAYLORS

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SOUTH EAST WATER

CARDINA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4
 DETAIL PLAN
 WATER RETICULATION

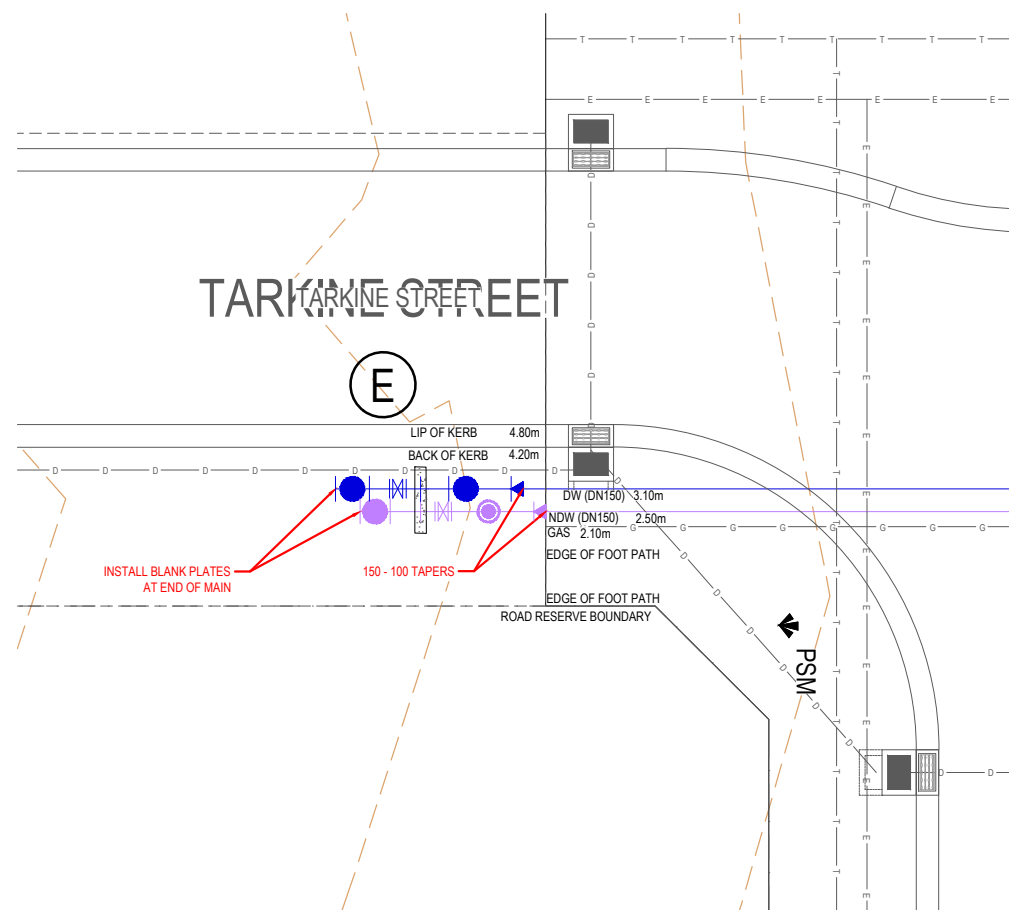
SCALE: AS SHOWN @A3

SHEET: 2 OF 3

DRAWING No.:	REV
20PD2713	1
W2	



TARKINE STREET



INSTALL BLANK PLATES AT END OF MAIN

150 - 100 TAPERS

DETAIL A FROM 20PD2713/W2

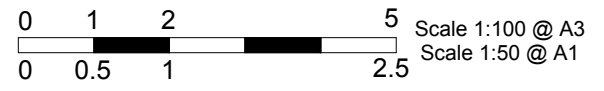
LEGEND

	DRINKING WATER MAIN
	NON DRINKING WATER MAIN

WARNING
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 THE LOCATION 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.



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REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED
0	ISSUED FOR CONSTRUCTION	15/06/2021	MIO				

DESIGNED	E.STAINES	PROJECT NUMBER	01177-04-E
DATE	16/09/2020	MELWAY REFERENCE	214 H3
DRAWN	W.BROWN	AUTHORISED	J.YALDEN
DATE	14/09/2020	DATE	18/09/2020
CHECKED	M.OLTHOF		
DATE	15/06/2021		

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SOUTH EAST WATER
 CARDINIA SHIRE COUNCIL
 415 PRINCES HIGHWAY, OFFICER VIC 3809
 HILLSTOWE ESTATE, STAGE 4
 DETAILS
 WATER RETICULATION

SCALE: AS SHOWN @A3
 SHEET: 3 OF 3
 DRAWING No.: 20PD2713
 W3
 REV 0