

SPECIFIC NOTES

SITE

1. PLASTIC MESH FENCING (BARRIER MESH) MUST BE USED TO PROTECT WORKSITE AND ALL APPROPRIATE SIGNS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
2. THE CONTRACTOR IS TO NOTIFY ALL RESIDENTS BY LETTER REGARDING ACCESS RESTRICTIONS TO THEIR PROPERTIES (AT LEAST 24HRS IN ADVANCE).
3. IT IS THE CONTRACTORS RESPONSIBILITY TO TRANSFER ANY TBM'S THAT MAY BE AFFECTED BY THE WORKS PRIOR TO THEIR REMOVAL.
4. SETOUT DIMENSIONING AND RADII ARE FROM LIP OF KERB UNLESS OTHERWISE SHOWN.

EARTHWORKS

1. THE CONTRACTOR IS TO VERIFY ALL LEVELS WITH THE SUPERVISING ENGINEER PRIOR TO COMMENCING ANY PAVEMENT WORKS.
2. ALL DISTURBED AREAS OUTSIDE THE WORKS ARE TO BE REINSTATED TO THE SATISFACTION OF COUNCIL.
3. REMOVAL OF VEGETATION OR TRIMMING OF TREES IS TO BE DONE UNDER COUNCIL DIRECTION.
4. NO TREE ROOTS GREATER THAN 40mm ARE TO BE CUT BY THE CONTRACTOR. THE CONTRACTOR IS TO OBTAIN APPROVAL FROM THE SUPERVISING ENGINEER TO REMOVE TREE ROOTS GREATER THAN 40mm.
5. THE CONTRACTOR SHALL NOT CAUSE ANY DAMAGE TO TREE BRANCHES OR TREE TRUNKS.
6. BACKFILL ALL TRENCHES BENEATH ROAD PAVEMENT AND VEHICLE CROSSINGS WITH CLASS 2 F.C.C.

DRAINAGE

1. ALL DRAINAGE WORKS TO BE TO AS3500
2. ALL DRAINAGE PIPES TO BE LAID TRUE TO LINE AND GRADE ON MIN 100mm OF 20mm CLASS 2 CRUSHED CONCRETE BEDDING.
3. ALL REINFORCED CONCRETE DRAINAGE PIPES TO BE RUBBER RING JOINTED AND CLASS 4, UNLESS SPECIFIED OTHERWISE.
4. ALL UPVC PIPES SHALL BE SEWER CLASS SN8 EXTRA HEAVY DUTY, SOLVENT WELDED UNLESS SPECIFIED OTHERWISE.
5. ALL PITS 1.0m DEPTH AND OVER TO BE FITTED WITH STEP IRONS.
6. ALL PITS TO HAVE FORMED BASES TO ALLOW SMOOTH FLOWS THROUGH PITS.
7. ALL DRAINAGE TRENCHES IN ROADWAY TO BE BACKFILLED WITH 20mm CLASS 2 CRUSHED CONCRETE WITH THE TOP 150mm CLASS 2 FINE CRUSHED ROCK.

SERVICING

1. THE LOCATION OF ALL EXISTING SERVICES IS BASED ON INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL SERVICES BEFORE COMMENCING WORKS AND PROTECT THE SAME FOR THE DURATION OF THE WORKS.
2. BACKFILL ALL TRENCHES BENEATH ROAD PAVEMENT AND VEHICLE CROSSINGS WITH CLASS 2 CRUSHED CONCRETE
3. "NO GO ZONES" TO BE ADHERED TO FOR ALL EXISTING SERVICES WHEN WORKING AROUND OR UNDER THEM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE RELEVANT SERVICE PROVIDER AS TO CLEARANCES.

MISCELLANEOUS

1. THE LOCATION OF ALL EXISTING SERVICES ARE TO BE RECORDED PRIOR TO THE COMMENCEMENT OF WORKS AND ANY REMOVED TO MAKE WAY FOR THE WORKS ARE TO BE REINSTATED TO ORIGINAL POSITION OR TO A LOCATION AS DIRECTED BY SUPERVISING ENGINEER.
2. ALL LINE MARKING IS TO BE REINSTATED IN ORIGINAL POSITION WHERE DISTURBED OR REMOVED BY CONCRETE PAVEMENT AND OR ASPHALT REPLACEMENT UNLESS OTHERWISE SHOWN.
3. REMOVE EXIST. VEHICLE CROSSINGS RAMPS AND RECONSTRUCT TO COUNCIL STANDARDS AND DETAILS SHOWN
4. ALL EXISTING HOUSE DRAINS SHALL BE RECONNECTED TO THE UNDERGROUND DRAINAGE SYSTEM UNLESS SHOWN OTHERWISE OR DIRECTED BY THE SUPERVISING ENGINEER IN ACCORDANCE WITH STANDARD - S121 AT A MINIMUM GRADE OF 1:100. INSPECTION OPENING TO BE PLACED OUTSIDE CONCRETE PATH UNLESS OTHERWISE SPECIFIED. NOT ALL HOUSE WATER DRAINS MAY BE SHOWN. CONTRACTOR TO CHECK DURING CONSTRUCTION AND CONNECT IN ACCORDANCE TO COUNCIL REQUIREMENTS.

ROAD & DRAINAGE RECONSTRUCTION WORKS

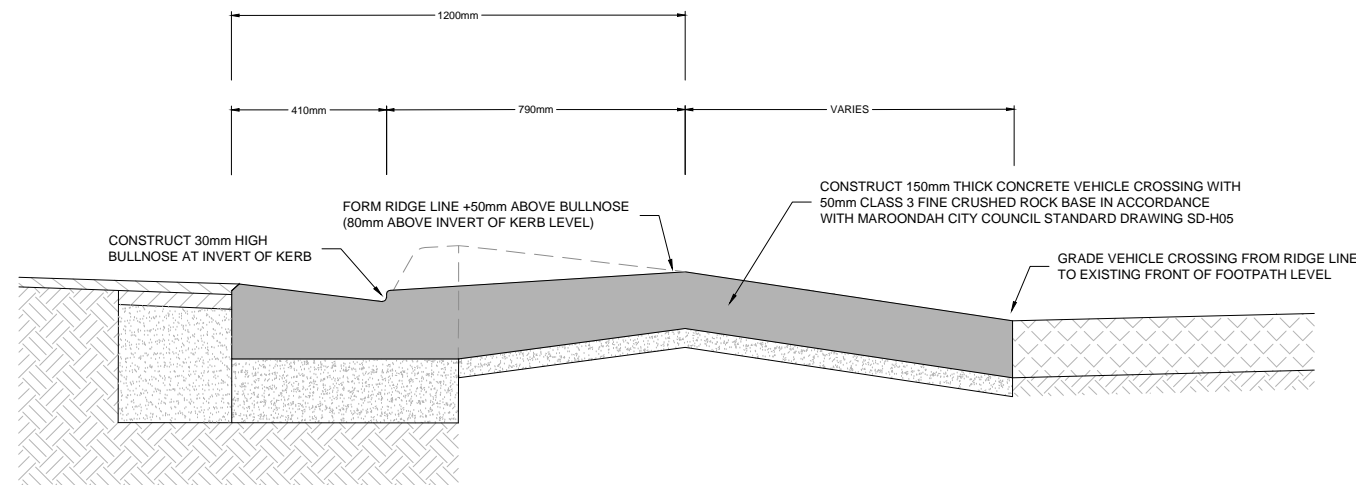
LAURENCE GROVE, RINGWOOD EAST



WARNING
BEWARE OF UNDERGROUND SERVICES
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DRAWING INDEX

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20	DRAINAGE PIT SCHEDULE



TYPICAL REVERSE FALL VEHICLE CROSSING DETAIL

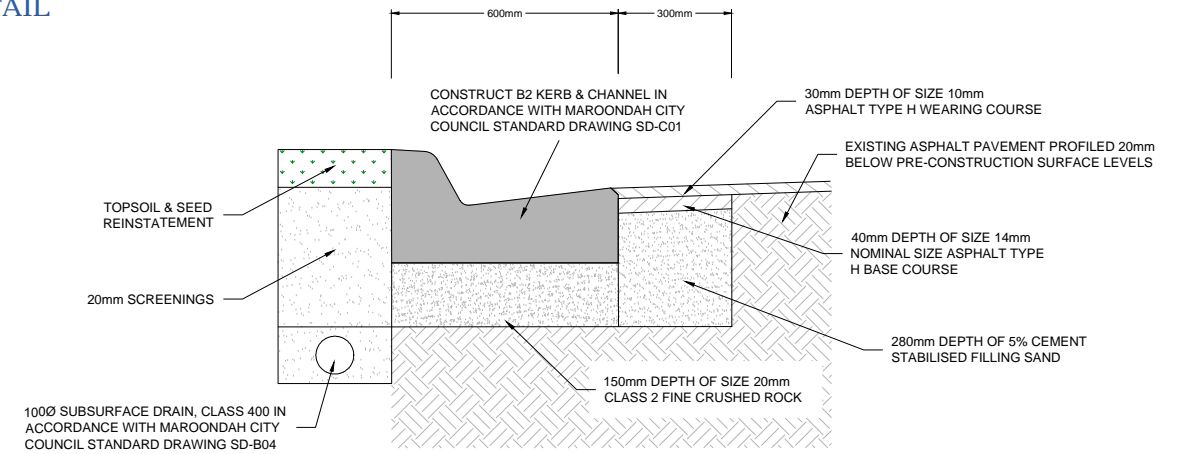
NOT TO SCALE
GENERALLY IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD COUNCIL DRAWING SD-H05

GENERAL NOTES

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.
2. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND DEPTHS PRIOR TO THE COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL ADVISE THE SUPERINTENDENT OF ANY REQUIRED ALTERATIONS.
3. ALL WORK PRACTICES SHALL COMPLY WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND ALL RELEVANT REGULATIONS AND CODES OF PRACTICE (IN PARTICULAR, THE CODE OF PRACTICE FOR SAFETY PRECAUTIONS IN TRENCHING OPERATIONS).
4. WORKSAFE VICTORIA IS TO BE INFORMED FOR TRENCHING OPERATIONS WHERE THE DEPTH IS GREATER THAN 1.5M.
5. THE CONTRACTOR SHALL STRICTLY COMPLY WITH "NO GO ZONE" CLEARANCE REQUIREMENTS WHEN WORKING WITHIN THE VICINITY OF OVERHEAD ELECTRICAL ASSETS/CABLES. FOR ANY OPERATION WHICH ENCLOSES ON THE 3.0M "NO GO ZONE", THE CONTRACTOR SHALL OBTAIN A WRITTEN PERMIT TO WORK FROM WORKSAFE. FOR FURTHER INFORMATION ON "NO GO ZONE" CLEARANCE REQUIREMENTS, REFER TO CURRENT WORKSAFE VICTORIA PUBLICATIONS (WWW.WORKSAFE.VIC.GOV.AU)
6. ALL CONCRETE SHALL BE SAWCUT TO THE NEAREST JOINT UNLESS SPECIFIED OTHERWISE.
7. ALL SERVICE COVERS WITHIN THE LIMIT OF WORKS SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED SURFACE LEVELS.
8. NO TREES SHALL BE REMOVED UNLESS AUTHORISED BY MAROONDAH CITY COUNCIL.
9. ALL DISTURBED AREAS SHALL BE TOPSOILED AND SEED TO A MINIMUM DEPTH OF 100mm. NATURE STRIPS SHALL BE GRADED EVENLY FROM THE TOP OF KERB TO THE FRONT OF PATH OR AS DIRECTED.
10. SITE EROSION CONTROL AND MINIMISATION MEASURES SHALL BE ADOPTED AT ALL TIMES IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AUTHORITY'S ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES.
11. TRAFFIC MANAGEMENT IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE ROAD MANAGEMENT ACT 2004 AND AS1742.3. ALL SIGNAGE (TEMPORARY AND PERMANENT) SHALL BE CLASS 1 REFLECTIVE GRADE.
12. AN APPROVED COPY OF PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON SITE AT ALL TIMES DURING CONSTRUCTION.
13. ALL CONCRETE TO HAVE COMPRESSIVE STRENGTH AT 28 DAYS NOT LESS THAN 25 MPa.
14. ALL LINEMARKING TO BE IN ACCORDANCE WITH AS1742.1 AND TO BE LONG LIFE THERMOPLASTIC IN ACCORDANCE WITH VICROADS SECTION 724.

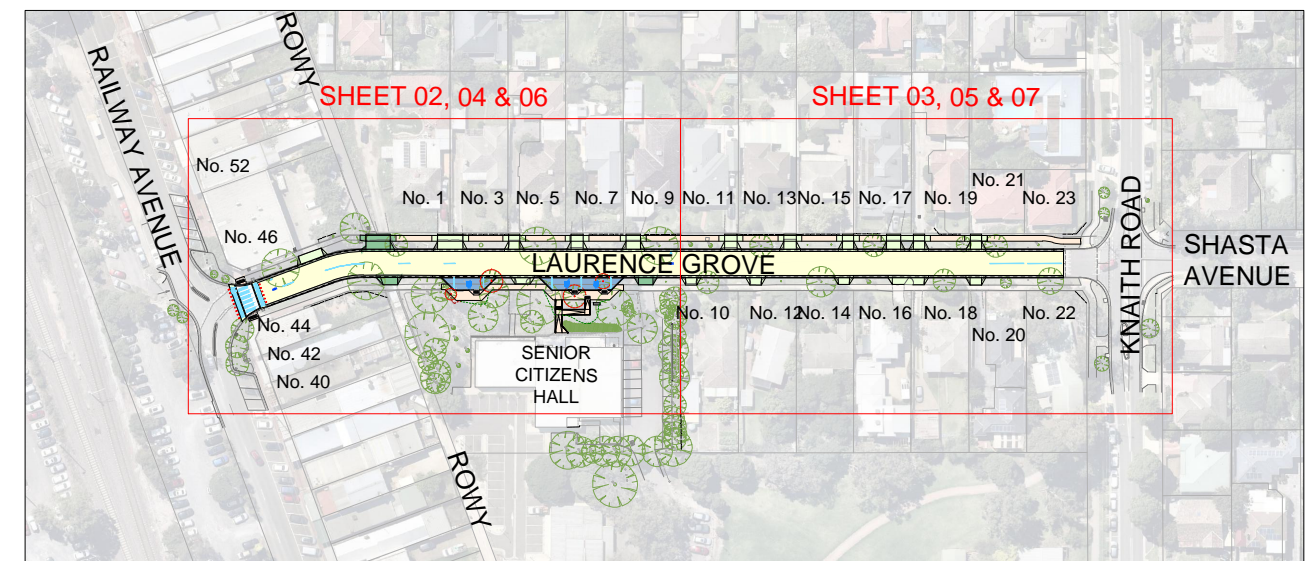
SEDIMENT CONTROL

1. CONTRACTORS SHALL ENSURE THAT ALL WORKS COMPLY WITH THE REQUIREMENTS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" - EPA PUBLICATION NO. 175.
2. CONTRACTORS SHALL INSTALL MEASURES TO ENSURE ANY SEDIMENT OR LITTER GENERATED AS A RESULT OF THE WORKS IS CONTAINED ON THE SITE. THESE MEASURES SHALL INCLUDE DEVICES SUCH AS SILT FENCES WHICH ARE TO BE LOCATED AT ALL SOURCES OF SEDIMENT SUCH AS EARTHWORKS STOCKPILED, ENDS OF ROAD EXCAVATION, DRAINAGE OUTLETS ETC.
3. CONTRACTORS SHALL ENSURE THAT VEHICLES ASSOCIATED WITH THE WORKS DO NOT DEPOSIT DIRT OR RUBBISH ONTO ROADS. ANY MATERIAL DEPOSITED SHALL BE PROMPTLY CLEANED UP WITHOUT CONTAMINATING ANY WATERWAY.
4. THE CONTRACTORS SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SEDIMENT AND LITTER CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT AND THE CONTRACT MAINTENANCE PERIOD.



TYPICAL KERB & PAVEMENT DETAIL

NOT TO SCALE
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OVERALL PLAN

20 10 0 20 40 1:1,000 @ A1
1:2,000 @ A3

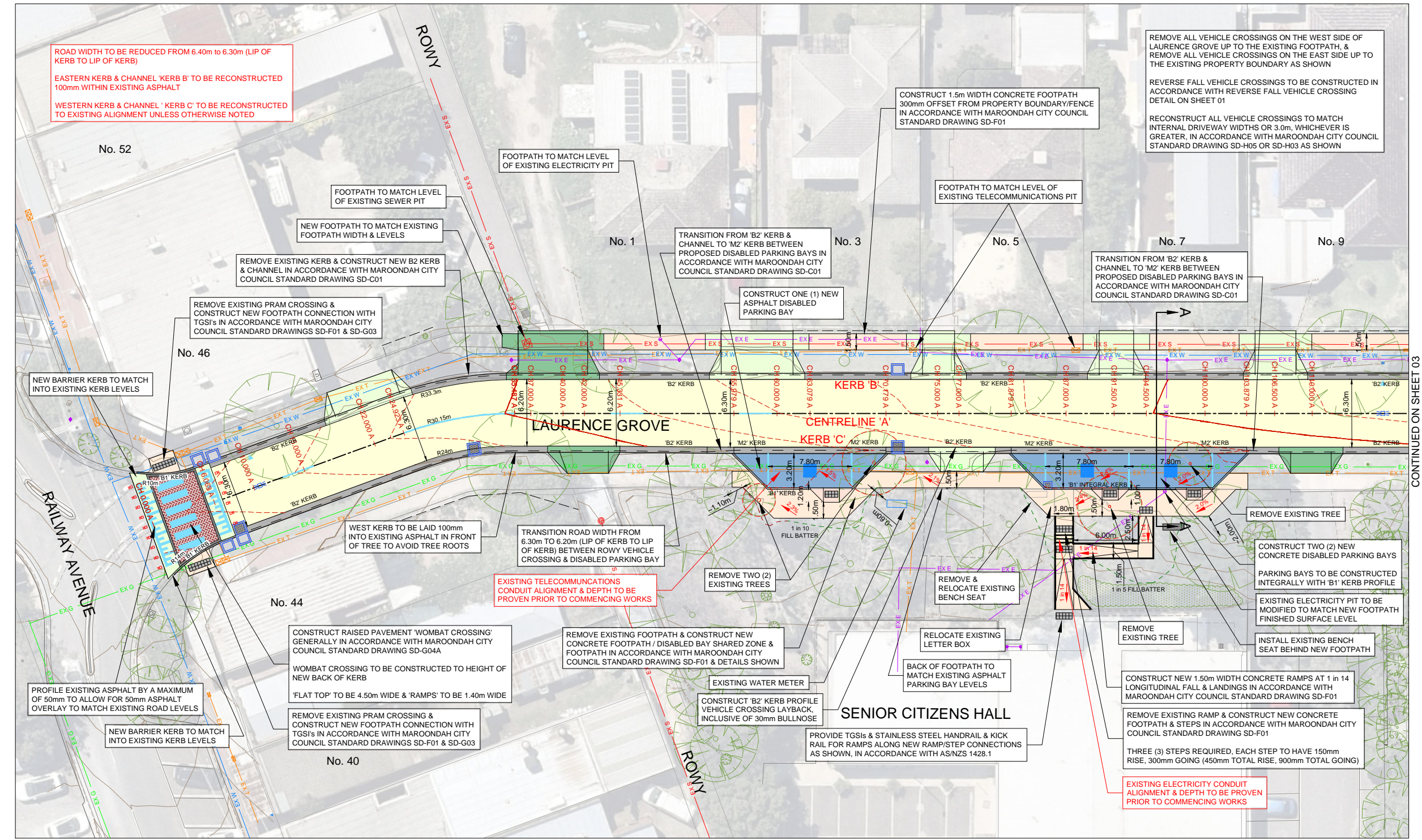
09 FOR CONSTRUCTION	28-08-2020	CONSULTANT ENGINEER	<p>PROCIVIL CONSULTING ENGINEERING Specialist Civil Engineering Design Consultants Commitment Communication Collaboration</p>	<p>PROCIVIL CONSULTING PTY LTD ABN 51 759 386 092 SUITE 9, 12 MAROONDAH HWY, RINGWOOD VIC 3134 PO BOX 164, RINGWOOD VIC 3134 P: (03) 8644 6834 E: info@procivil.com.au www.procivil.com.au</p>	<p>OR AS SHOWN</p>	<p>ORIGINAL SCALE & SHEET SIZE AS SHOWN @ A1</p>	<p>LOCAL GOVERNMENT AREA CITY OF MAROONDAH</p>	<p>CLIENT </p>	<p>FOR CONSTRUCTION ROAD & DRAINAGE RECONSTRUCTION WORKS LAURENCE GROVE, RINGWOOD EAST</p>	PROJECT No. PC18081							
08 FOR CONSTRUCTION	27-08-2020	07 FOR CONSTRUCTION				27-07-2020				06 FOR CONSTRUCTION	13-07-2020	05 FOR CONSTRUCTION	05-06-2020	04 FOR CONSTRUCTION	01-06-2020	03 DETAILED DESIGN - ISSUED FOR REVIEW	22-05-2020
VER	DESCRIPTION	DATE								TITLE SHEET - NOTES, LOCALITY PLAN, DRAWING INDEX, & OVERALL PLAN							

LEGEND

- ASPHALT PAVEMENT OVERLAY WITH REGULATION AS REQUIRED IN ACCORDANCE WITH DETAIL ON SHEET 01
- 125mm THICK CONCRETE FOOTPATH IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING SD-F01
- 150mm THICK CONCRETE VEHICLE CROSSING IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING SD-H05
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GENERAL LAYOUT PLAN



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CONSULTANT ENGINEER

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Specialist Civil Engineering Design Consultants

Commitment | Communication | Collaboration

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 CHRIS PROCTOR

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AERIAL IMAGE DATE
 17-02-2020

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CLIENT PROJECT MANAGER / CONTACT
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FOR CONSTRUCTION

ROAD & DRAINAGE RECONSTRUCTION WORKS

LAURENCE GROVE, RINGWOOD EAST

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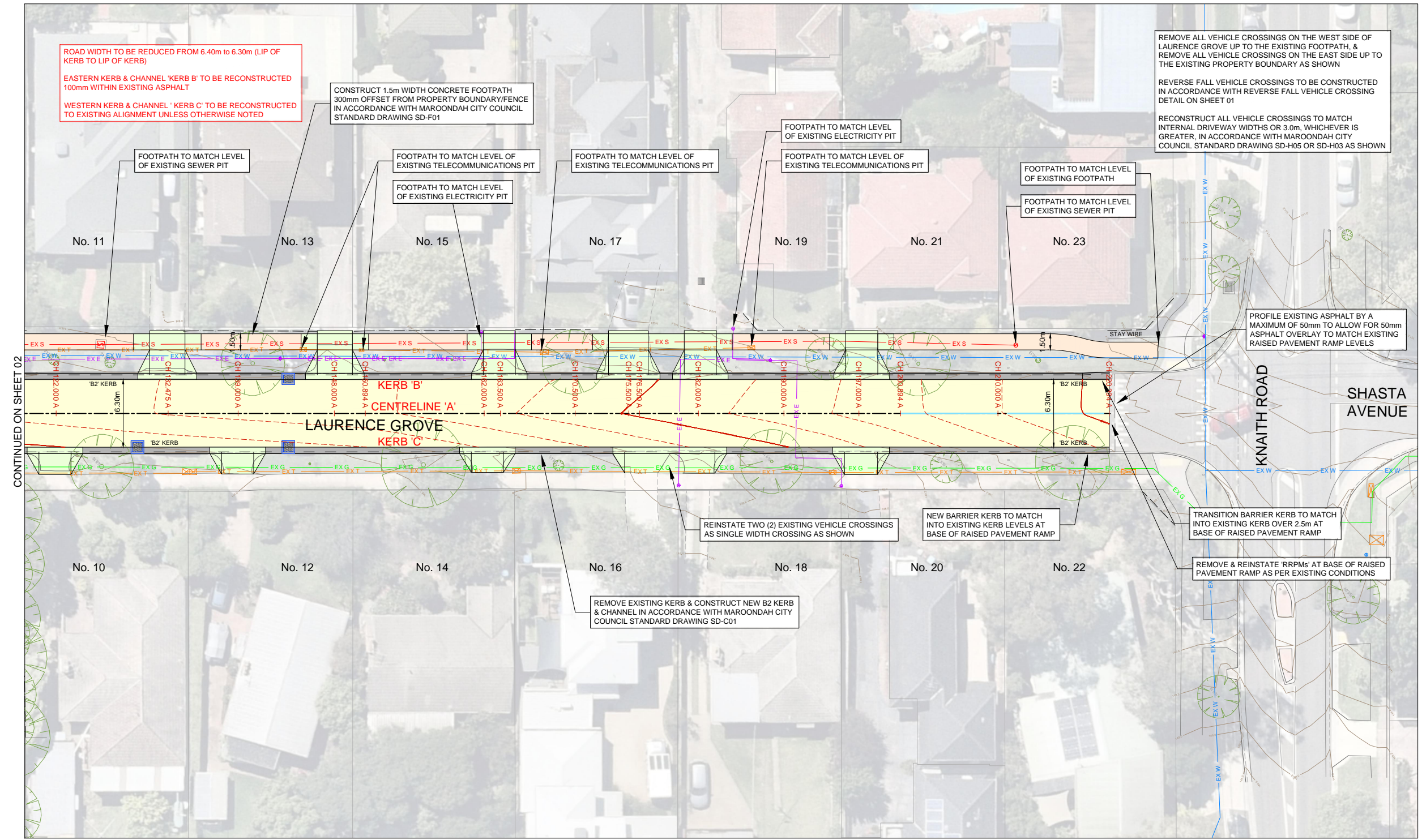
PROJECT No.	PC18081
SHEET No.	02 OF 20
VERSION	09
DWG No.	PC18081-02-09

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4 2 0 4 8 1:200 @ A1
1:400 @ A3

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MGA 94 ZONE 55

SURVEY DATE
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AERIAL IMAGE DATE
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CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
TOM DOBSON | MAROONDAH CITY COUNCIL

FOR CONSTRUCTION

ROAD & DRAINAGE RECONSTRUCTION WORKS

LAURENCE GROVE, RINGWOOD EAST

GENERAL LAYOUT PLAN

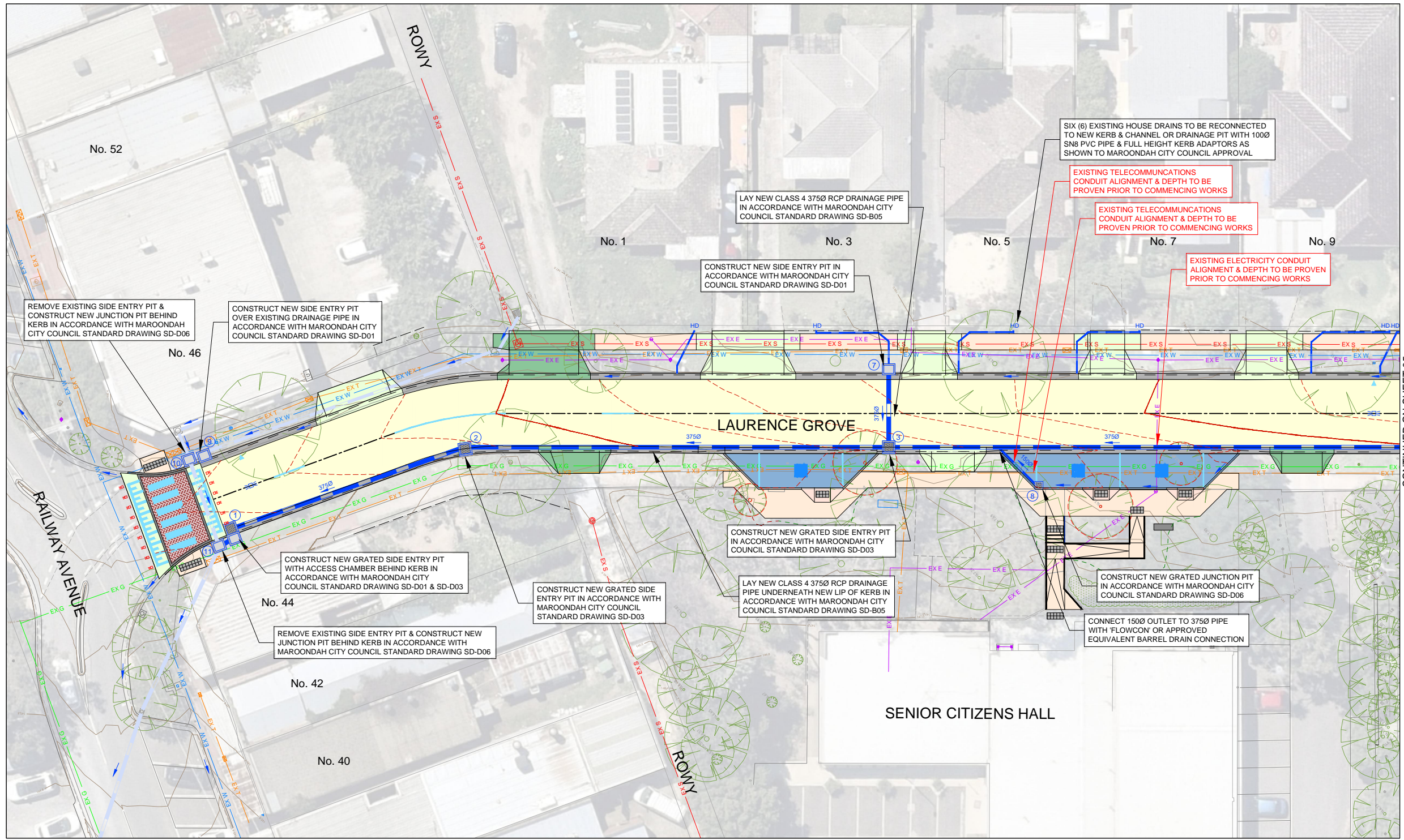
PROJECT No.	PC18081
SHEET No.	03 OF 20
VERSION	09
DWG No.	PC18081-03-09

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DRAINAGE LAYOUT PLAN

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CONTINUED ON SHEET 05

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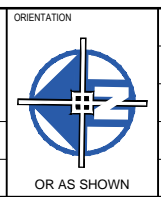
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TOM DOBSON | MAROONDAH CITY COUNCIL

FOR CONSTRUCTION

ROAD & DRAINAGE RECONSTRUCTION WORKS
LAURENCE GROVE, RINGWOOD EAST

DRAINAGE LAYOUT PLAN

PROJECT No.	PC18081
SHEET No.	05 OF 20
VERSION	09
DWG No.	PC18081-05-09

LEGEND

- ASPHALT PAVEMENT OVERLAY WITH REGULATION AS REQUIRED IN ACCORDANCE WITH DETAIL ON SHEET 01
- 125mm THICK CONCRETE FOOTPATH IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING SD-F01
- 150mm THICK CONCRETE VEHICLE CROSSING IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING SD-H05
- 200mm THICK CONCRETE VEHICLE CROSSING IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING SD-H03
- 150mm THICK CONCRETE DISABLED PARKING BAY WITH CONCRETE SPECIFICATION IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING SD-H05

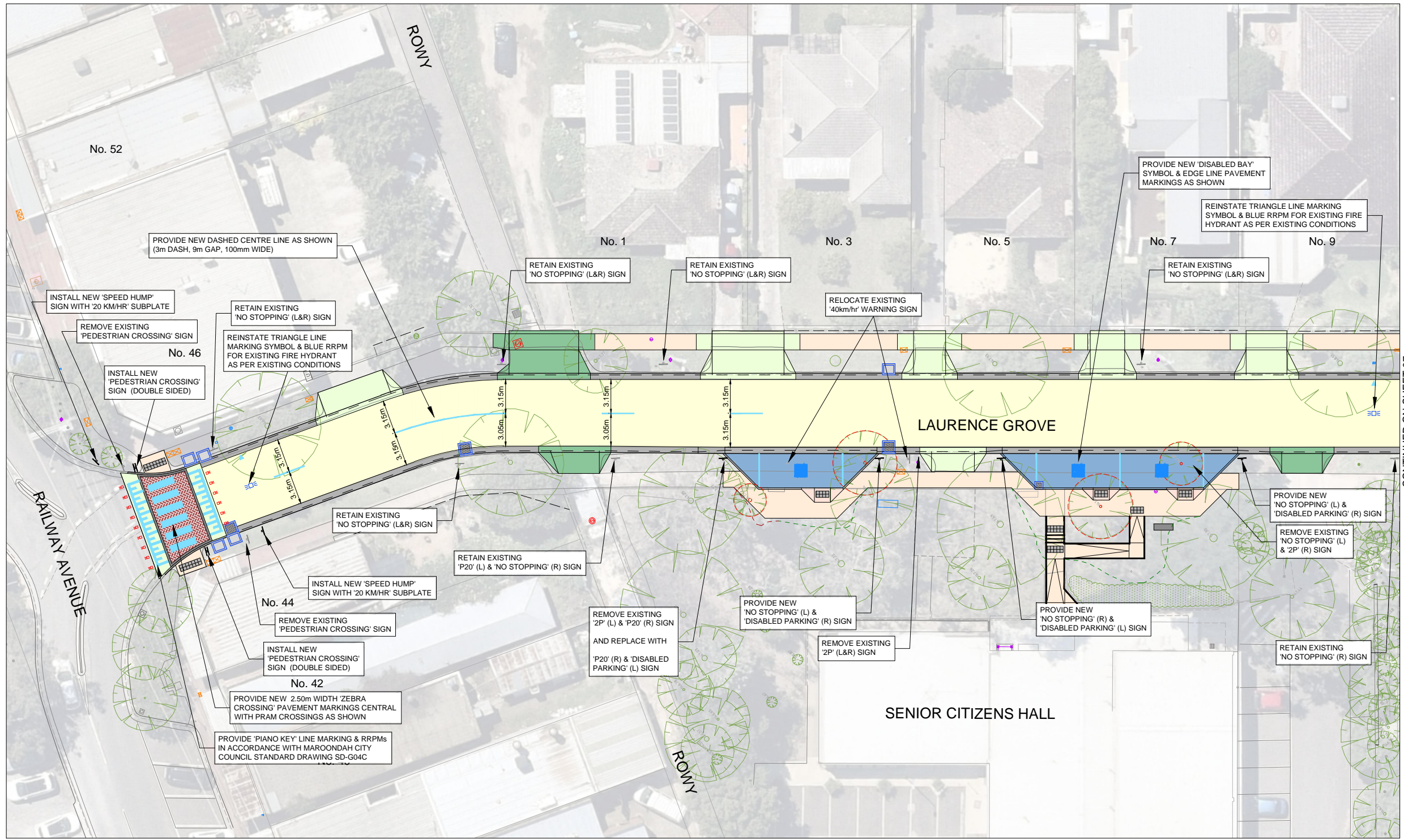
- EXISTING DRAINAGE PIPE
- NEW DRAINAGE PIT WITH PIT NUMBER AND PIPE
- DIRECTION OF CHANNEL FLOW
- PAVEMENT LINE MARKING
- NEW CONCRETE KERB AND CHANNEL IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING SD-C01
- PROPOSED PAVEMENT GRADE
- TREE TO BE REMOVED

- EX W EXISTING WATER
- EX G EXISTING GAS
- EX S EXISTING SEWER
- EX T EXISTING TELECOMMUNICATIONS
- EX E EXISTING UNDERGROUND ELECTRICITY
- EXISTING CONTOUR MAJOR (1.0m)
- EXISTING CONTOUR MINOR (0.20m)
- FINISHED SURFACE CONTOUR MAJOR (1.0m)
- FINISHED SURFACE CONTOUR MINOR (0.2m)
- FILL BATTER EXTENT
- CUT BATTER EXTENT

SIGN LEGEND

-
-
-
-
-
-

WARNING
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SIGNS & LINE MARKING PLAN



09	FOR CONSTRUCTION	28-08-2020
08	FOR CONSTRUCTION	27-08-2020
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CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE
AS SHOWN @ A1

HEIGHT DATUM
AHD

COORDINATE DATUM
MGA 94 ZONE 55

SURVEY DATE
25-11-2019

AERIAL IMAGE DATE
17-02-2020

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
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FOR CONSTRUCTION

ROAD & DRAINAGE RECONSTRUCTION WORKS

LAURENCE GROVE, RINGWOOD EAST

SIGNS & LINE MARKING PLAN

PROJECT No.	PC18081
SHEET No.	06 OF 20
VERSION	09
DWG No.	PC18081-06-09

CONTINUED ON SHEET 07

LEGEND

- ASPHALT PAVEMENT OVERLAY WITH REGULATION AS REQUIRED IN ACCORDANCE WITH DETAIL ON SHEET 01
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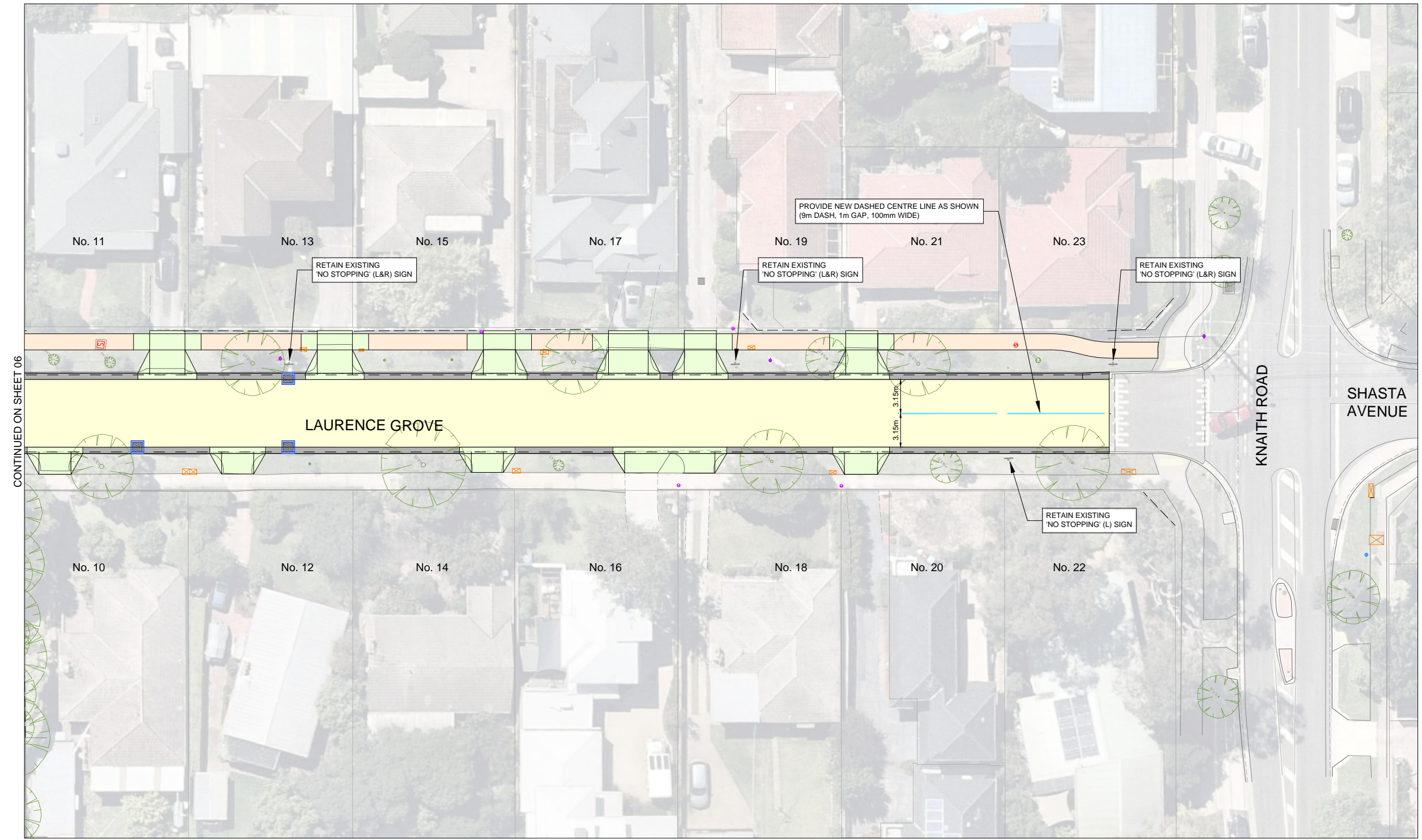
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SIGN LEGEND

- 'NO STOPPING' R5-35 (L) & 'DISABLED PARKING' R5-31 (R)
 - 'DISABLED PARKING' R5-31 (L) & 'NO STOPPING' R5-35 (R)
 - 'DISABLED PARKING' R5-31 (L) & 'P20' R5-35 (R)
 - 'SPEED HUMP' W5-10
 - '20 KM/HR ADVISORY SPEED' W8-2
 - 'PEDESTRIAN CROSSING' R3-1
- SIGNS SHOWN AS

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SHEET No.	07 OF 20
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DWG No.	PC18081-07-09

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SURVEY COORDINATE SETOUT POINT TABLES

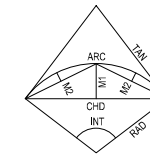
COORDINATE POINT SHOWN AS:

Point Number	Easting (m)	Northing (m)	FS (m RL)
A1	345915.969	5813544.445	146.34
A2	345918.136	5813538.783	146.45
A3	345924.878	5813521.170	146.83
A4	345926.867	5813510.849	147.02
A5	345929.676	5813325.965	150.07
B1	345920.265	5813546.089	146.28
B2	345920.184	5813544.753	146.23
B3	345920.826	5813540.568	146.33
B4	345927.820	5813522.296	146.76
B5	345930.016	5813510.897	146.99
B6	345932.825	5813326.013	150.07
C1	345911.738	5813542.825	146.12
C2	345915.194	5813537.657	146.28
C3	345922.230	5813519.275	146.67
C4	345923.813	5813511.060	146.81
C5	345926.526	5813325.917	149.84
D1	345914.062	5813458.412	147.17
D2	345914.035	5813460.211	147.17
D3	345915.534	5813460.234	147.17
D4	345916.237	5813460.244	147.62
D5	345918.034	5813460.272	147.61
D6	345918.061	5813458.472	147.64
D7	345916.266	5813458.445	147.62
D8	345915.562	5813458.434	147.17
D9	345915.653	5813452.434	147.60
D10	345918.153	5813452.472	147.76
D11	345918.175	5813450.974	147.78
D12	345915.676	5813450.935	147.60
D13	345914.176	5813450.912	147.60
D14	345914.153	5813452.412	147.60

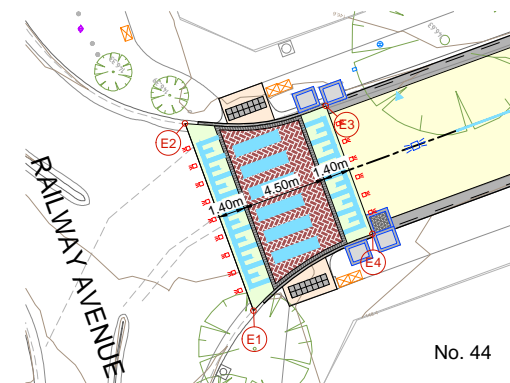
SURVEY CURVE / ARC SETOUT DETAIL TABLES

CENTRELINE CURVE 'A1' SET OUT DETAILS		LIP OF KERB CURVE 'B1' SET OUT DETAILS		LIP OF KERB CURVE 'B2' SET OUT DETAILS	
RAD.	30.15	RAD.	10	RAD.	33.3
INT	20°4'30"	INT	24°26'30"	INT	20°4'30"
TAN	5.337	TAN	2.166	TAN	5.894
CHD	10.51	CHD	4.234	CHD	11.608
ARC	10.564	ARC	4.266	ARC	11.668
M1	0.461	M1	0.227	M1	0.51
M2	0.116	M2	0.057	M2	0.128

LIP OF KERB CURVE 'C1' SET OUT DETAILS		LIP OF KERB CURVE 'C2' SET OUT DETAILS	
RAD.	14	RAD.	24
INT	25°39'49"	INT	20°4'30"
TAN	3.189	TAN	4.248
CHD	6.219	CHD	8.366
ARC	6.271	ARC	8.409
M1	0.35	M1	0.367
M2	0.088	M2	0.092

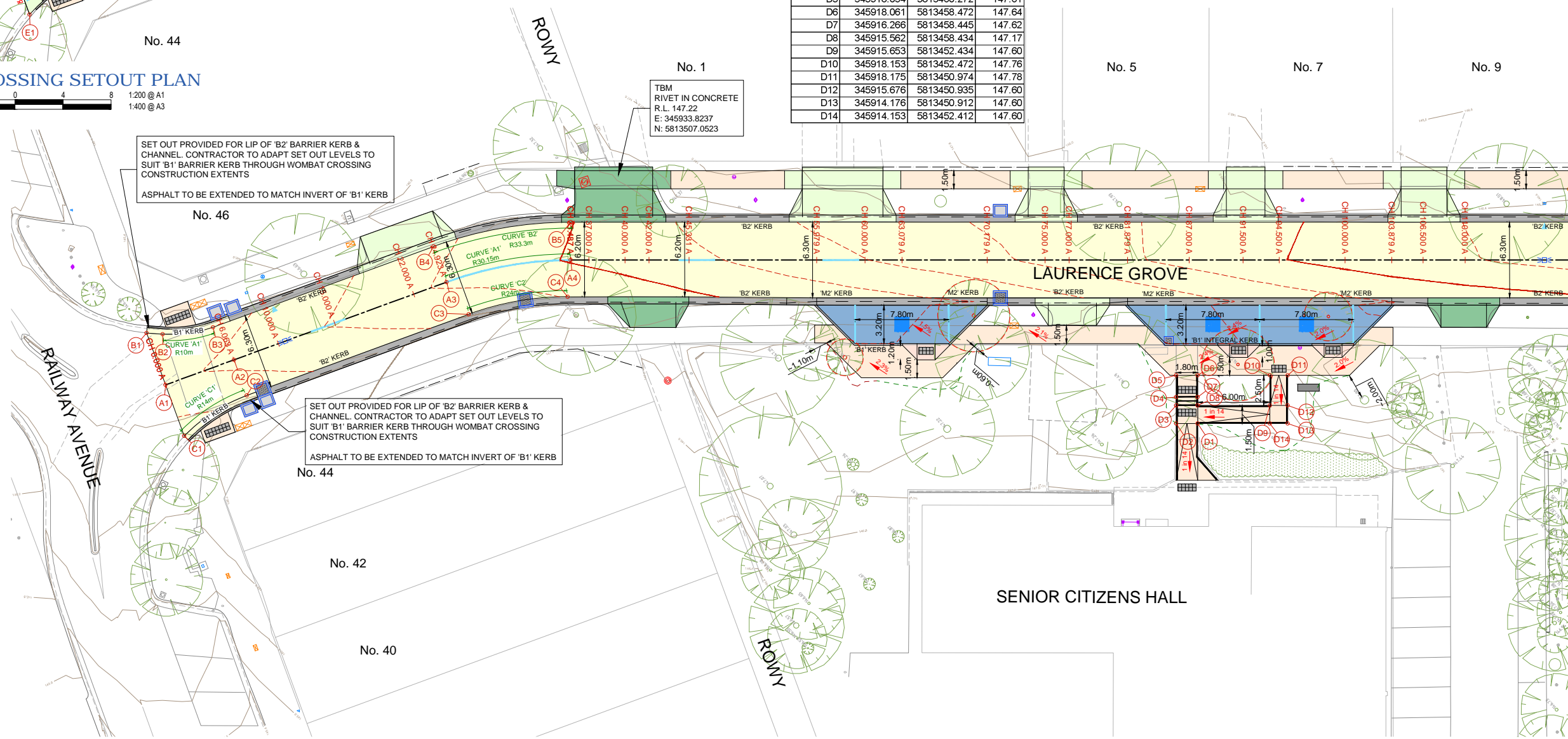
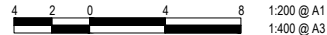


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Point Number	Easting (m)	Northing (m)
E1	345910.907	5813542.966
E2	345920.756	5813546.736
E3	345921.787	5813539.315
E4	345915.063	5813536.741

WOMBAT CROSSING SETOUT PLAN



SURVEY SETOUT PLAN



VER	DESCRIPTION	DATE
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LAURENCE GROVE, RINGWOOD EAST

SURVEY SETOUT PLAN

PROJECT No.	PC18081
SHEET No.	08 OF 20
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DWG No.	PC18081-08-09

LEGEND

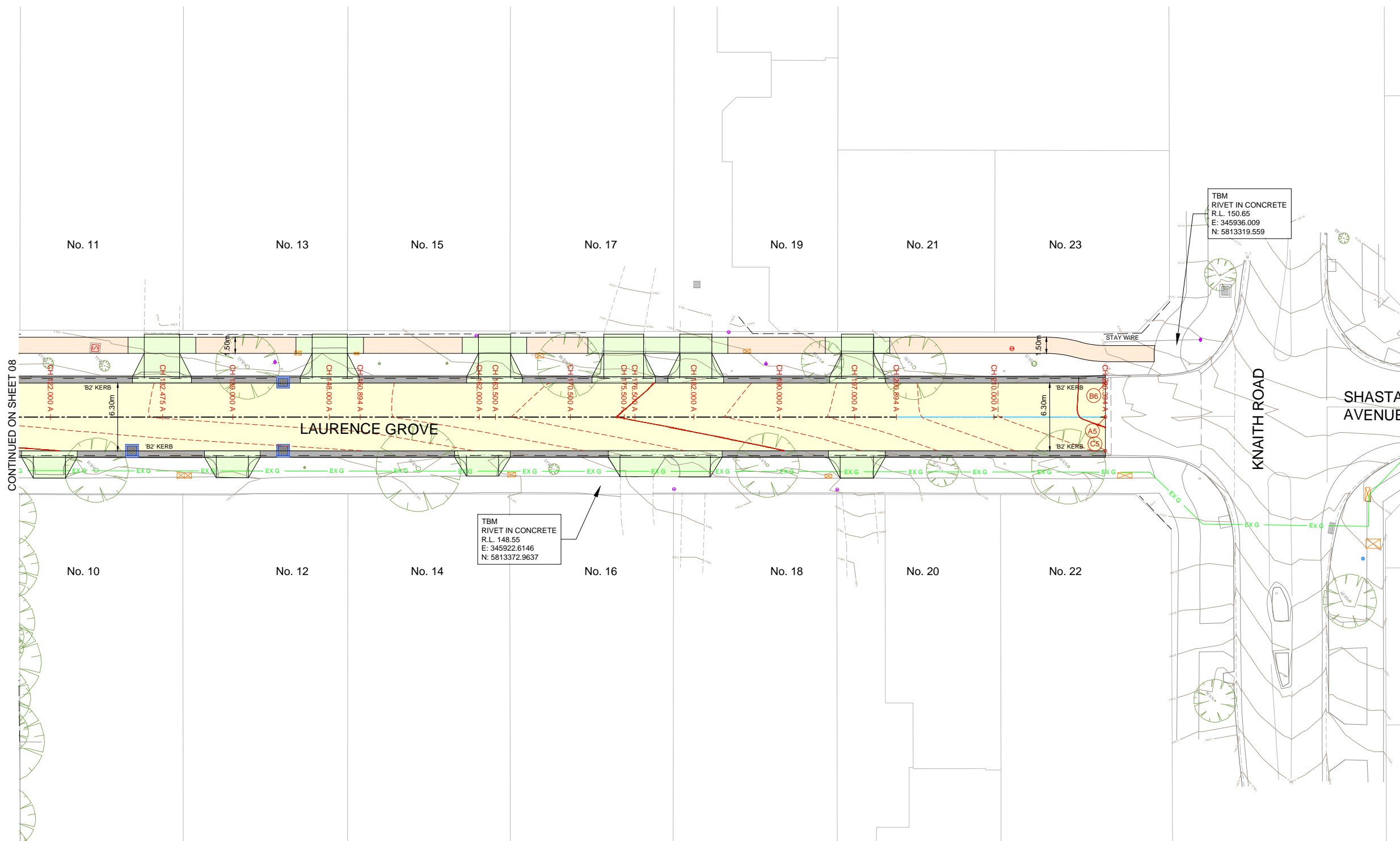
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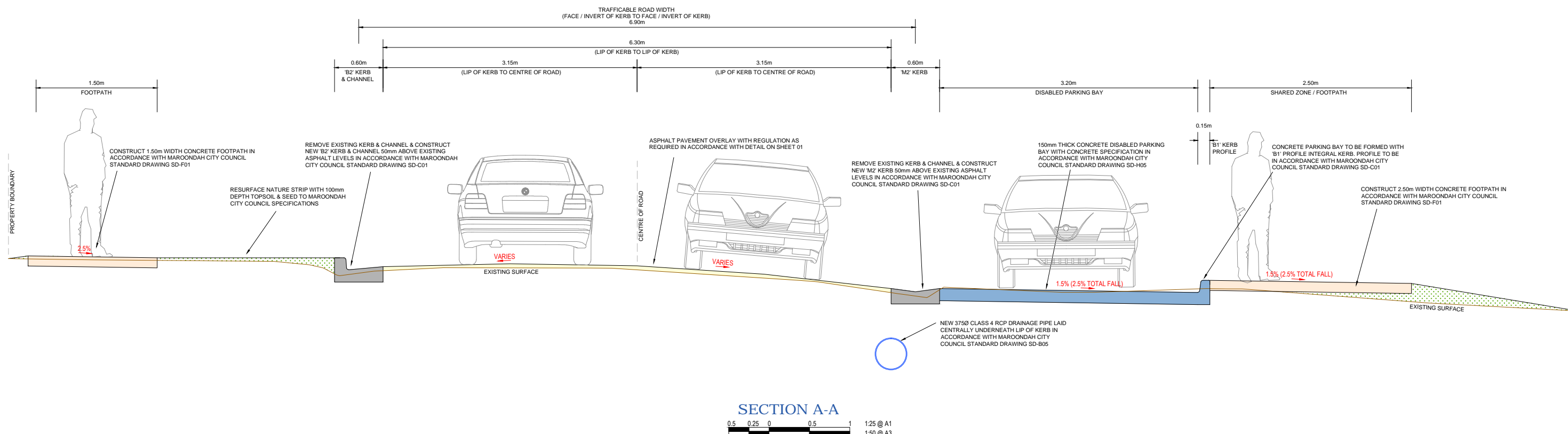
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SECTION A-A
 0.5 0.25 0 0.5 1 1:25 @ A1
 1:50 @ A3

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SECTION A-A

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PC18081

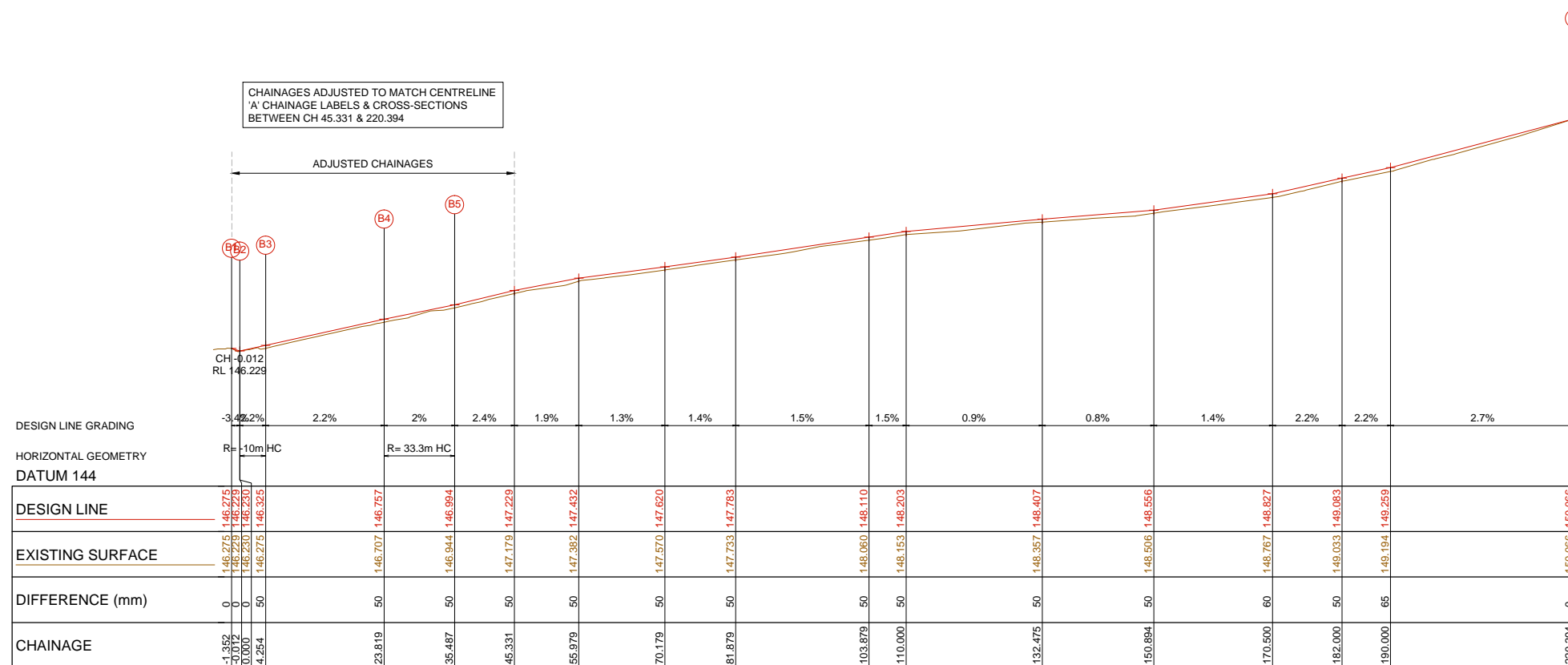
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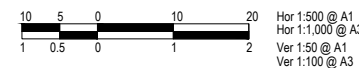
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LONGITUDINAL SECTION - LIP OF KERB 'B'



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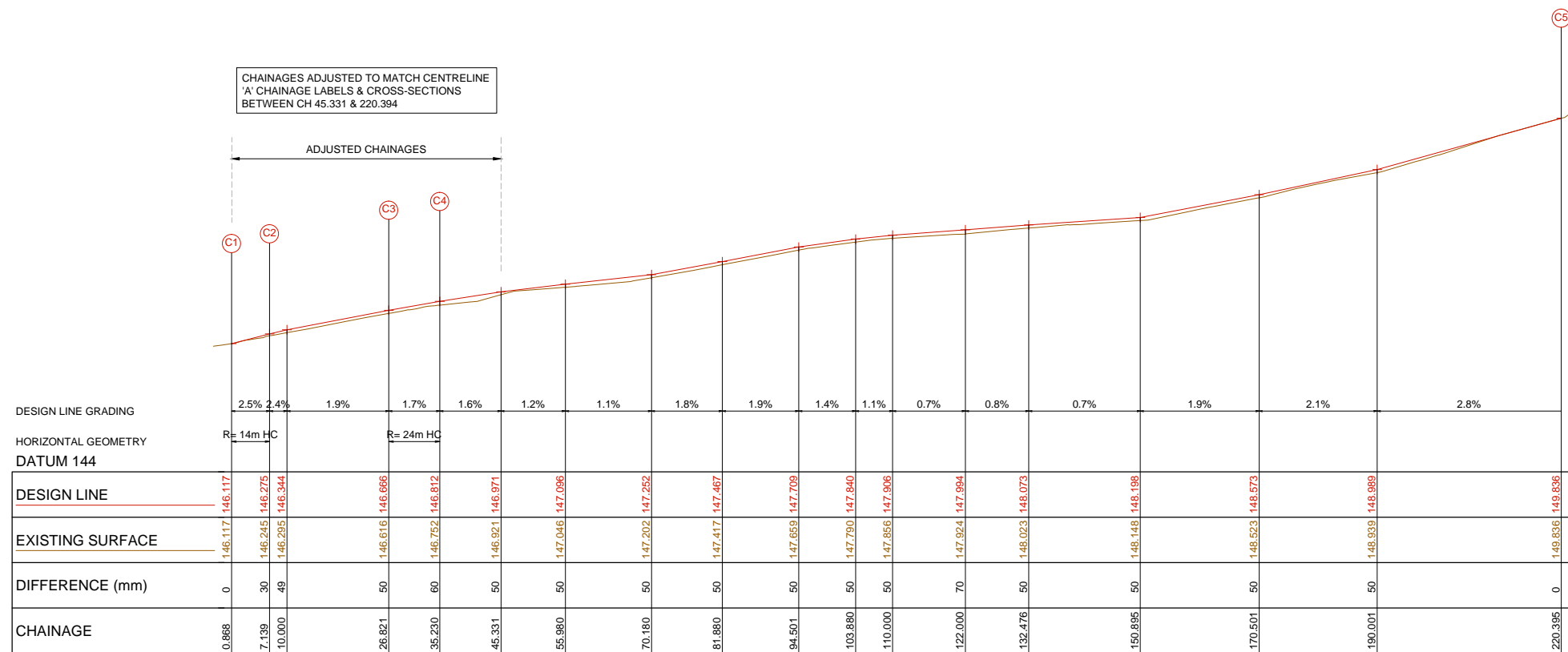
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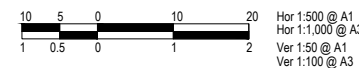
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DWG No.	PC18081 -12 - 09



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LONGITUDINAL SECTION - LIP OF KERB 'C'



09	FOR CONSTRUCTION	28-08-2020
08	FOR CONSTRUCTION	27-08-2020
07	FOR CONSTRUCTION	27-07-2020
06	FOR CONSTRUCTION	13-07-2020
05	FOR CONSTRUCTION	05-06-2020
04	FOR CONSTRUCTION	01-06-2020
03	DETAILED DESIGN - ISSUED FOR REVIEW	22-05-2020
02	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	12-05-2020
01	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	06-05-2020
VER	DESCRIPTION	DATE

CONSULTANT ENGINEER

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 PO BOX 164, RINGWOOD VIC 3134
 P: (03) 8644 6834
 E: info@procivil.com.au
 www.procivil.com.au

CIVIL ENGINEERING DESIGN
 LUKE WHITFIELD
 REGISTERED & CHARTERED PROFESSIONAL ENGINEER'S REVIEW
 CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE
 AS SHOWN @ A1

HEIGHT DATUM
 AHD

COORDINATE DATUM
 MGA 94 ZONE 55

SURVEY DATE
 25-11-2019

AERIAL IMAGE DATE
 17-02-2020

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON | MAROONDAH CITY COUNCIL

FOR CONSTRUCTION

ROAD & DRAINAGE RECONSTRUCTION WORKS
 LAURENCE GROVE, RINGWOOD EAST

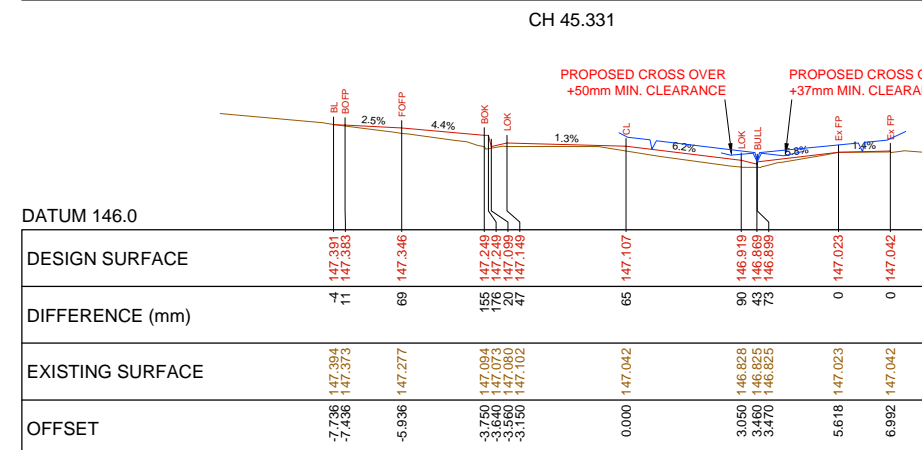
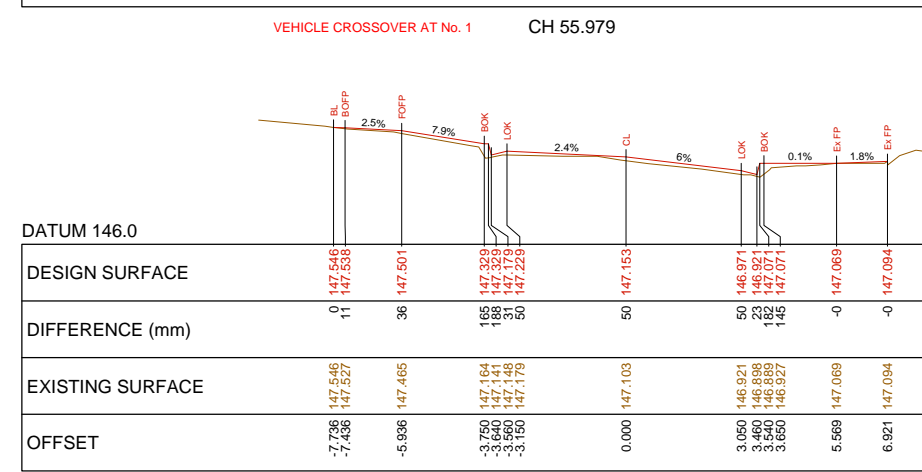
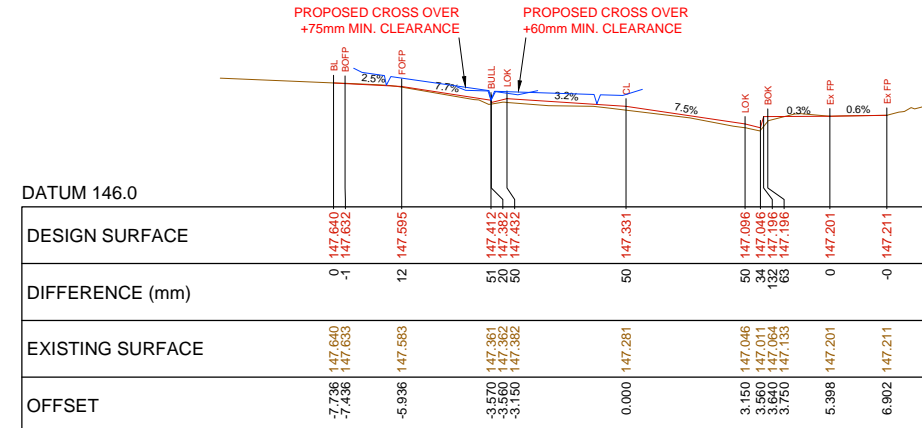
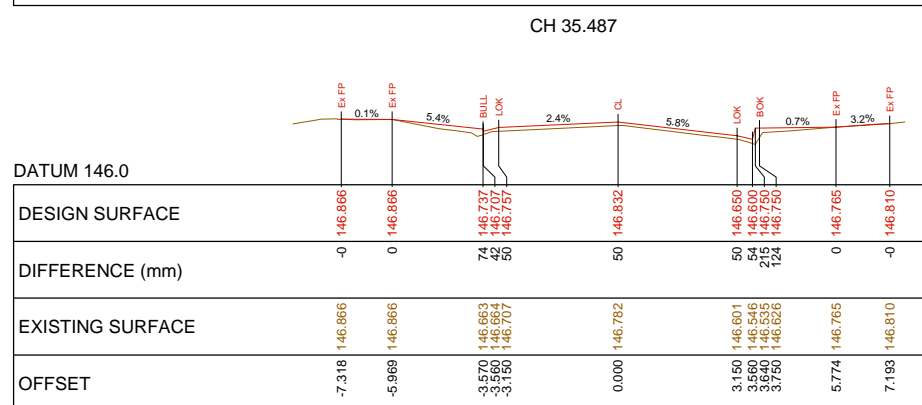
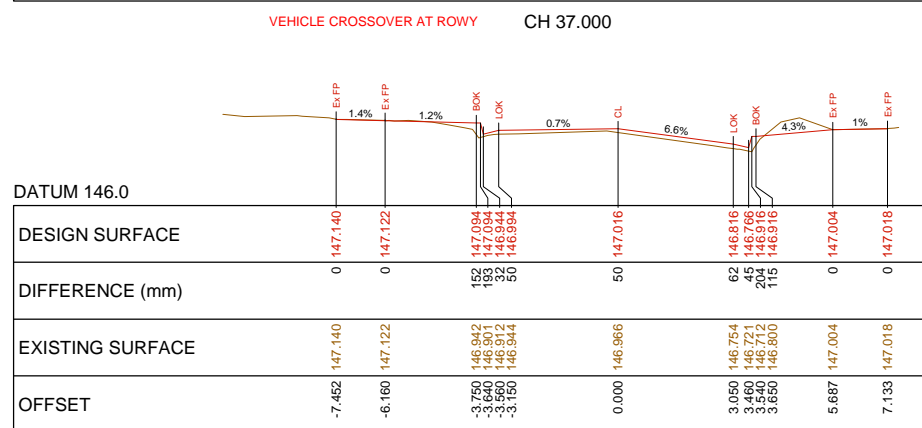
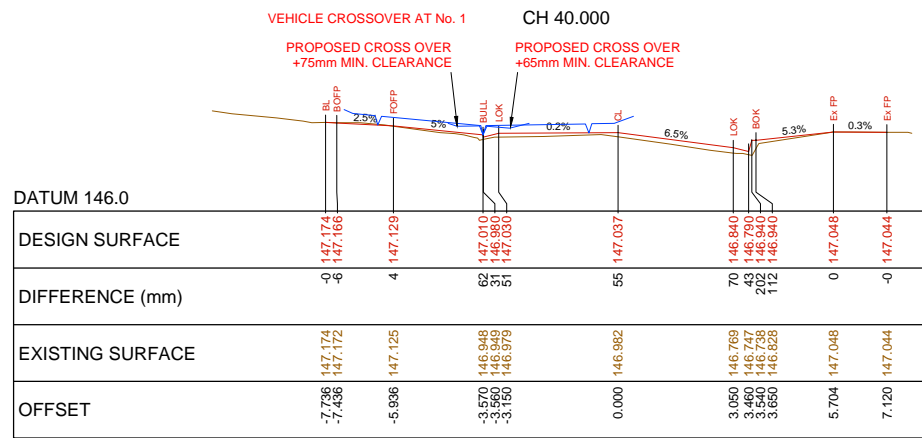
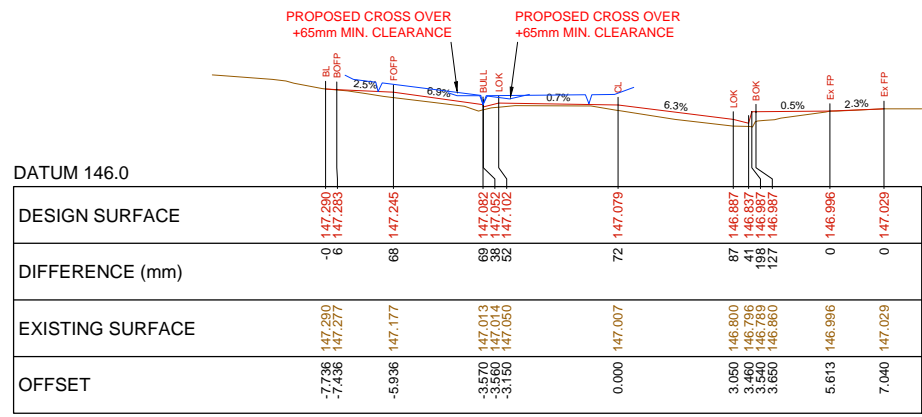
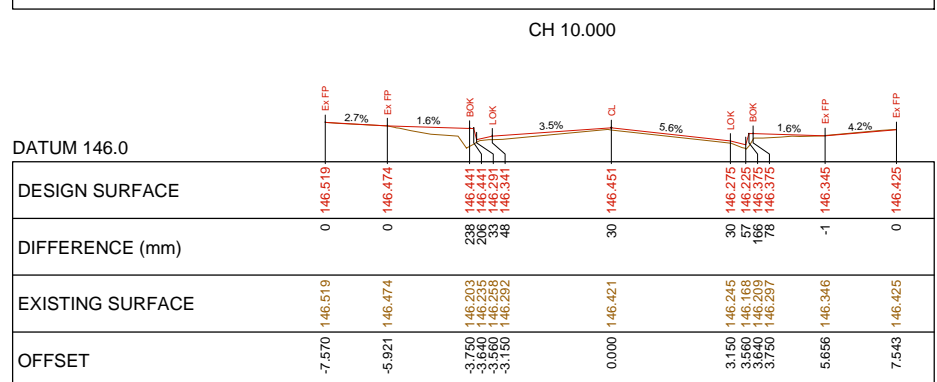
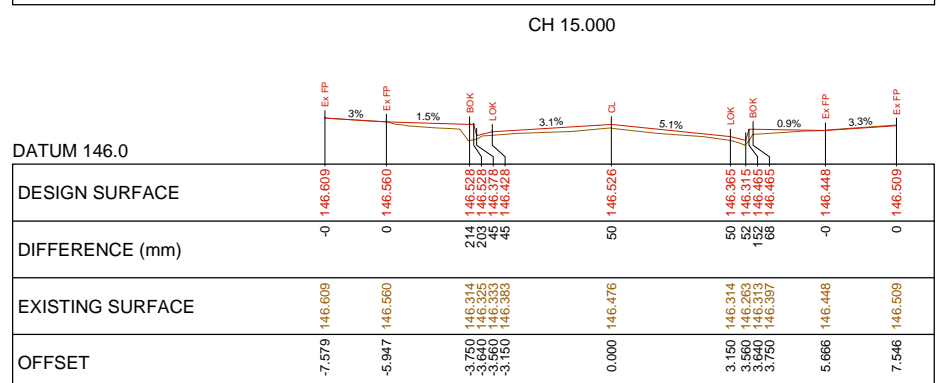
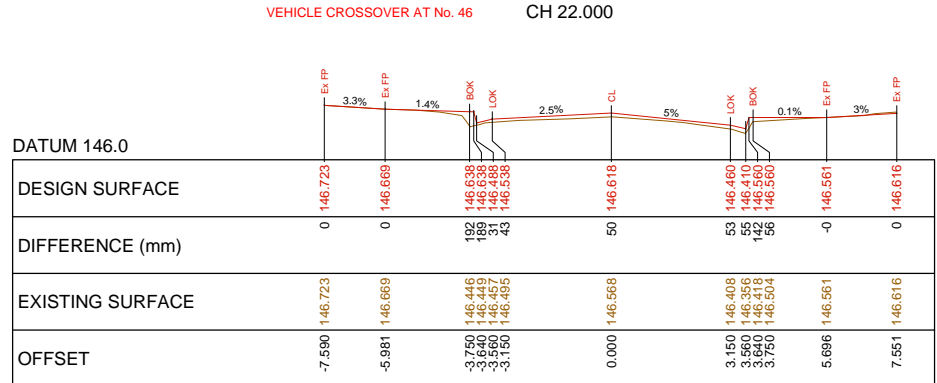
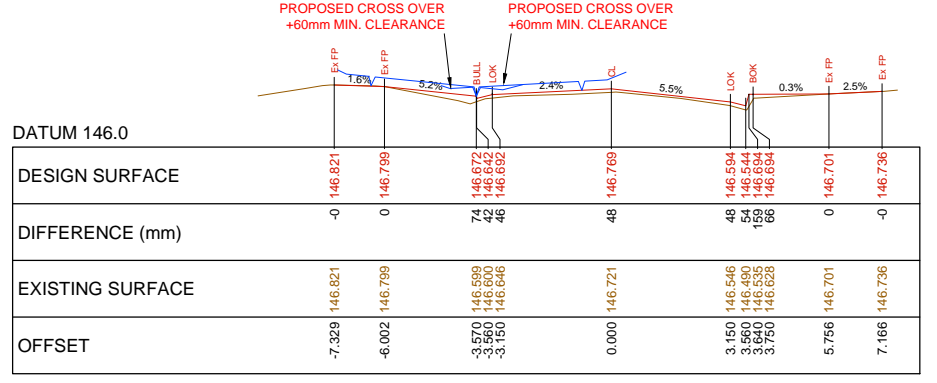
LONGITUDINAL SECTION - LIP OF KERB 'C'

PROJECT No.	PC18081
SHEET No.	13 OF 20
VERSION	09
DWG No.	PC18081-13-09

AS2890.1 - B85 VEHICLE TEMPLATE
 SCALED AT H:1:100 V:1:50
 (VERTICAL EXAGGERATION OF 2)

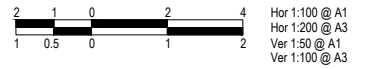


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CL - CENTRELINE
 LOK - LIP OF KERB
 BOK - BACK OF KERB
 BL - BOUNDARY LINE
 BULL - VEHICLE CROSSING BULL NOSE
 FOPP - FRONT OF FOOTPATH
 BOFP - BACK OF FOOTPATH
 Ex FP - EXISTING EDGE OF FOOTPATH

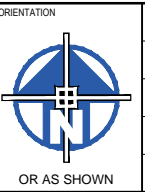
CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) - CENTRELINE 'A'



VER	DESCRIPTION	DATE
09	FOR CONSTRUCTION	28-08-2020
08	FOR CONSTRUCTION	27-08-2020
07	FOR CONSTRUCTION	27-07-2020
06	FOR CONSTRUCTION	13-07-2020
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ORIENTATION
 ORIGINAL SCALE & SHEET SIZE
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 SURVEY DATE
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LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

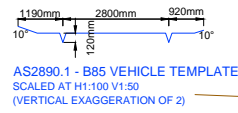
 Maroondah City Council

CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON | MAROONDAH CITY COUNCIL

FOR CONSTRUCTION
ROAD & DRAINAGE RECONSTRUCTION WORKS
 LAURENCE GROVE, RINGWOOD EAST

CROSS-SECTIONS - CENTRELINE 'A' - CH 6.063 TO CH 55.979

PROJECT No.	PC18081
SHEET No.	14 OF 20
VERSION	09
DWG No.	PC18081-14-09



PROPOSED CROSS OVER
+55mm MIN. CLEARANCE

PROPOSED CROSS OVER
+44mm MIN. CLEARANCE



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DATUM 147.0

DESIGN SURFACE	DIFFERENCE (mm)	EXISTING SURFACE	OFFSET
147.937	-3	147.940	-7.736
147.930	11	147.919	-7.436
147.892	82	147.810	-5.936
147.667	58	147.609	-3.570
147.657	27	147.609	-3.560
147.657	51	147.656	-3.150
147.648	52	147.597	0.000
147.341	53	147.288	3.150
147.301	39	147.262	3.450
147.341	8	147.333	3.750
147.352	0	147.352	5.502
147.411	-0	147.411	7.048

VEHICLE CROSSOVER AT No. 5 CH 75.000

DATUM 147.0

DESIGN SURFACE	DIFFERENCE (mm)	EXISTING SURFACE	OFFSET
147.841	0	147.841	-7.736
147.834	12	147.822	-7.436
147.796	38	147.758	-5.936
147.720	111	147.609	-3.750
147.720	173	147.545	-3.640
147.720	36	147.670	-3.560
147.620	50	147.570	-3.150
147.559	50	147.509	0.000
147.252	50	147.202	3.150
147.212	36	147.177	3.450
147.252	-19	147.272	3.750
147.350	0	147.350	5.474
147.343	0	147.343	7.012

CH 70.179

DATUM 146.0

DESIGN SURFACE	DIFFERENCE (mm)	EXISTING SURFACE	OFFSET
147.688	0	147.688	-7.736
147.686	4	147.686	-7.436
147.653	2	147.650	-5.936
147.626	102	147.523	-3.750
147.626	109	147.526	-3.640
147.526	53	147.472	-3.150
147.445	49	147.396	0.000
147.174	65	147.109	3.150
147.134	54	147.080	3.450
147.174	-10	147.184	3.750
147.265	72	147.193	6.860
147.356	94	147.262	7.100
147.302	59	147.243	9.800
147.242	0	147.242	10.386

CH 63.079 DISABLED PARKING BAY

DATUM 146.0

DESIGN SURFACE	DIFFERENCE (mm)	EXISTING SURFACE	OFFSET
147.705	-0	147.697	-7.736
147.697	1	147.696	-7.436
147.660	26	147.634	-5.936
147.466	50	147.415	-3.570
147.435	20	147.415	-3.560
147.435	50	147.435	-3.150
147.340	56	147.340	0.000
147.140	59	147.081	3.150
147.140	50	147.050	3.450
147.140	-20	147.160	3.750
147.271	-120	147.292	6.860
147.322	23	147.299	7.100
147.285	-37	147.301	9.800
147.301	0	147.301	10.125

VEHICLE CROSSOVER AT No. 3 CH 60.000 DISABLED PARKING BAY

DATUM 146.0

DESIGN SURFACE	DIFFERENCE (mm)	EXISTING SURFACE	OFFSET
148.007	0	148.007	-7.736
147.962	15	147.947	-7.436
147.959	127	147.832	-5.936
147.959	186	147.773	-3.750
147.859	29	147.779	-3.640
147.859	56	147.803	-3.560
147.817	50	147.817	-3.150
147.517	-73	147.590	0.000
147.667	81	147.587	6.950
147.630	207	147.423	6.990
147.622	294	147.328	7.100
147.621	316	147.305	11.047
147.470	185	147.292	11.387
147.470	185	147.292	11.749
147.320	39	147.282	11.749
147.320	83	147.258	12.069
147.169	13	147.169	12.100
146.804	-20	146.804	13.600
146.804	-0	146.804	14.715
146.804	22.172	146.804	14.804

CH 87.000 DISABLED PARKING BAY & CITIZENS CENTRE ENTRANCE

DATUM 147.0

DESIGN SURFACE	DIFFERENCE (mm)	EXISTING SURFACE	OFFSET
147.954	0	147.954	-7.736
147.916	8	147.908	-7.436
147.883	108	147.775	-5.936
147.883	183	147.700	-3.750
147.733	26	147.707	-3.640
147.733	50	147.733	-3.560
147.776	50	147.726	-3.150
147.471	0	147.471	0.000
147.471	3	147.471	6.860
147.525	3	147.525	7.100

CH 81.879

DATUM 147.0

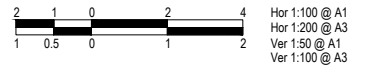
DESIGN SURFACE	DIFFERENCE (mm)	EXISTING SURFACE	OFFSET
147.919	0	147.919	-7.736
147.873	20	147.854	-7.436
147.815	114	147.700	-5.936
147.815	184	147.631	-3.750
147.685	27	147.638	-3.640
147.685	49	147.666	-3.560
147.636	49	147.636	-3.150
147.428	56	147.372	0.000
147.428	56	147.372	6.860
147.451	0	147.451	7.100

CH 77.000 VEHICLE CROSSOVER AT ASPHALT PARKING BAY

CL - CENTRELINE
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CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) - CENTRELINE 'A'



VER	DESCRIPTION	DATE
09	FOR CONSTRUCTION	28-08-2020
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LAURENCE GROVE, RINGWOOD EAST

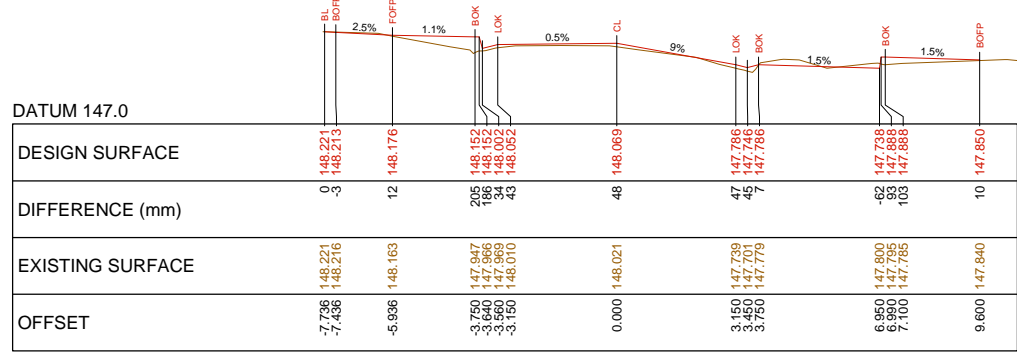
CROSS-SECTIONS - CENTRELINE 'A' - CH 60.000 TO CH 87.000

PROJECT No.	PC18081
SHEET No.	15 OF 20
VERSION	09
DWG No.	PC18081-15 - 09

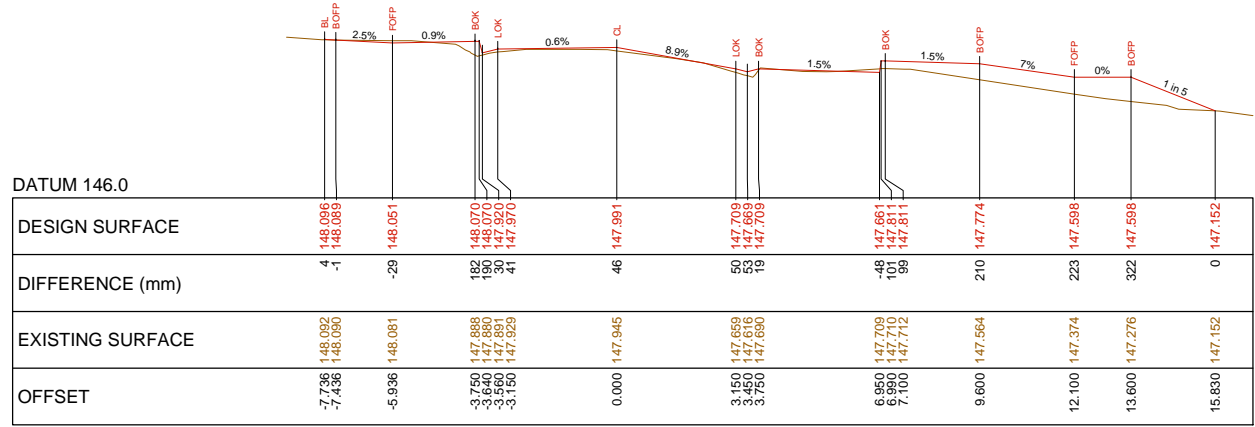
AS2890.1 - B85 VEHICLE TEMPLATE
 SCALED AT H:1:100 V:1:50
 (VERTICAL EXAGGERATION OF 2)



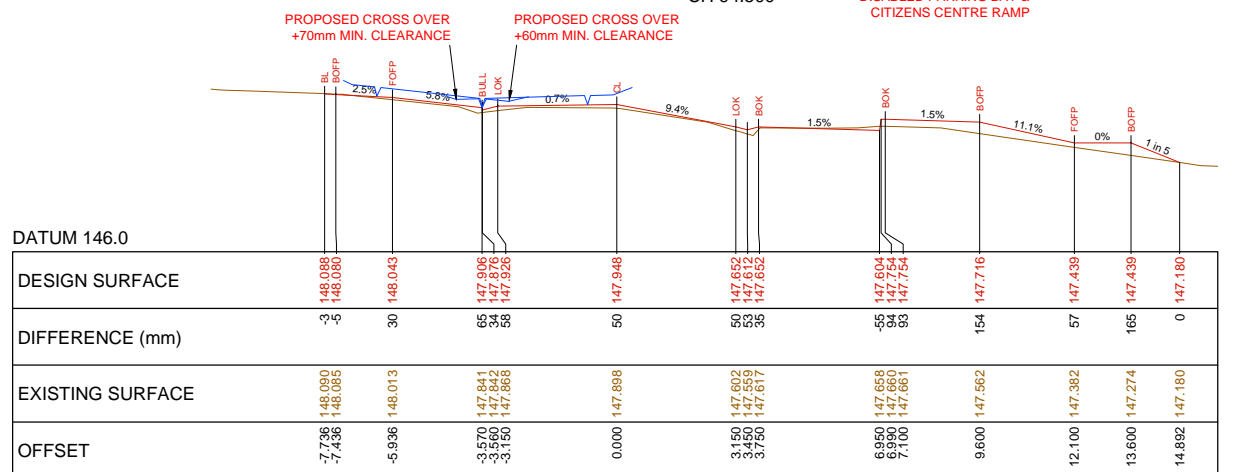
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	0	12	205	196	43	48	47	45	52	103	10
DESIGN SURFACE	148.221	148.176	148.152	148.052	148.052	148.069	147.786	147.786	147.765	147.888	147.850
DIFFERENCE (mm)	-3	12	205	196	43	48	47	45	52	103	10
EXISTING SURFACE	148.221	148.163	147.947	148.052	148.010	148.021	147.739	147.779	147.800	147.785	147.840
OFFSET	-7.736	-5.936	-3.750	-3.640	-3.150	0.000	3.150	3.750	6.950	7.100	9.600



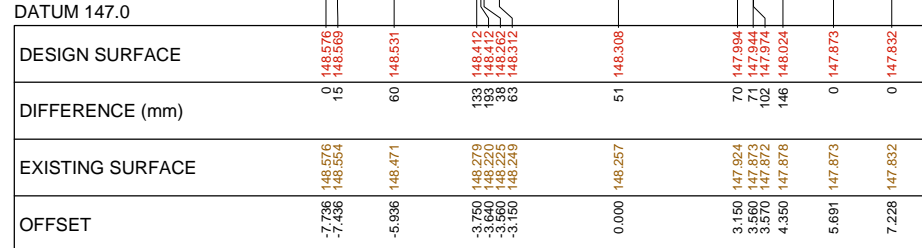
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DESIGN SURFACE	148.096	148.092	148.081	148.070	147.990	147.970	147.991	147.709	147.709	147.661	147.774	147.598	147.598	147.152
DIFFERENCE (mm)	4	-1	-29	182	130	41	46	53	50	48	210	223	322	0
EXISTING SURFACE	148.092	148.080	148.081	147.888	147.860	147.929	147.945	147.659	147.616	147.712	147.564	147.374	147.276	147.152
OFFSET	-7.736	-7.436	-5.936	-3.750	-3.640	-3.150	0.000	3.150	3.450	7.100	9.600	12.100	13.600	15.830



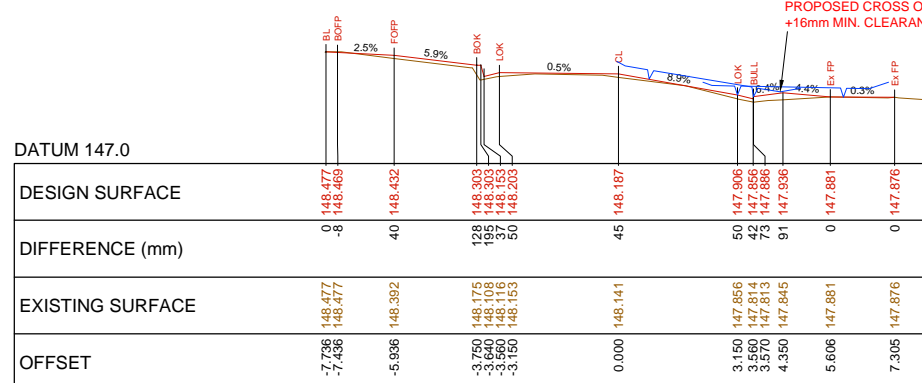
	-3	-5	30	65	34	58	50	50	53	35	55	83	154	57	165	0
DESIGN SURFACE	148.089	148.085	148.043	147.906	147.876	147.826	147.948	147.652	147.612	147.617	147.654	147.716	147.716	147.439	147.439	147.180
DIFFERENCE (mm)	-3	-5	30	65	34	58	50	50	53	35	55	83	154	57	165	0
EXISTING SURFACE	148.090	148.085	148.013	147.841	147.842	147.868	147.898	147.602	147.559	147.617	147.658	147.652	147.382	147.274	147.180	147.180
OFFSET	-7.736	-7.436	-5.936	-3.570	-3.640	-3.150	0.000	3.150	3.450	3.750	6.950	7.100	9.600	12.100	13.600	14.892



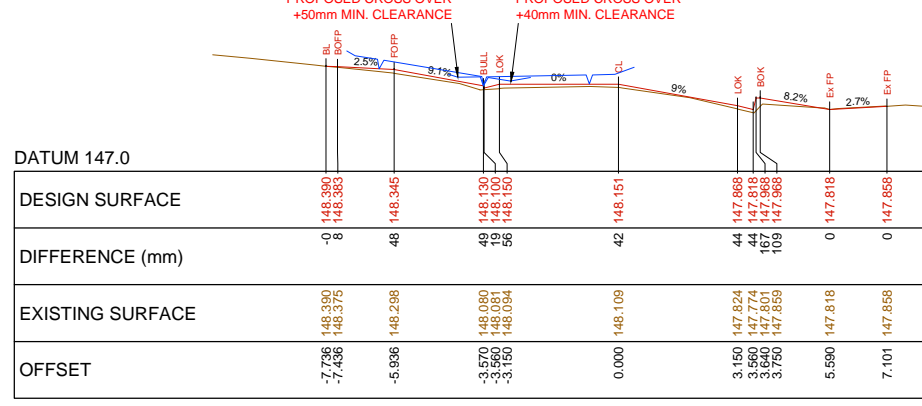
	1	17	96	188	177	24	50	50	50	50	0	50	50	0	0
DESIGN SURFACE	148.312	148.210	148.210	148.210	148.210	148.110	148.110	148.125	147.940	147.940	147.785	147.828	147.828	147.828	147.828
DIFFERENCE (mm)	1	17	96	188	177	24	50	50	50	50	0	50	50	0	0
EXISTING SURFACE	148.304	148.300	148.184	148.012	148.033	148.036	148.060	148.075	147.790	147.788	147.785	147.828	147.828	147.828	147.828
OFFSET	-7.736	-7.436	-5.936	-3.750	-3.640	-3.150	0.000	0.000	3.150	3.450	5.578	7.091	7.091	7.091	7.091



	0	15	60	133	193	38	51	70	102	146	0	0
DESIGN SURFACE	148.576	148.564	148.531	148.412	148.262	148.312	148.308	147.994	147.974	148.024	147.873	147.832
DIFFERENCE (mm)	0	15	60	133	193	38	51	70	102	146	0	0
EXISTING SURFACE	148.576	148.564	148.471	148.279	148.225	148.249	148.257	147.924	147.872	147.878	147.873	147.832
OFFSET	-7.736	-7.436	-5.936	-3.750	-3.660	-3.150	0.000	3.150	3.570	4.350	5.691	7.228



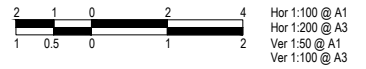
	0	-8	40	128	195	37	45	50 <th>73 <th>91 <th>0 <th>0 </th></th></th></th>	73 <th>91 <th>0 <th>0 </th></th></th>	91 <th>0 <th>0 </th></th>	0 <th>0 </th>	0
DESIGN SURFACE	148.477	148.469	148.432	148.303	148.203	148.203	148.187	147.906	147.886	147.881	147.876	147.876
DIFFERENCE (mm)	0	-8	40	128	195	37	45	50	73	91	0	0
EXISTING SURFACE	148.477	148.477	148.392	148.175	148.108	148.116	148.141	147.856	147.813	147.845	147.881	147.876
OFFSET	-7.736	-7.436	-5.936	-3.750	-3.660	-3.150	0.000	3.150	3.570	4.350	5.606	7.305



	-1 <th>17 <th>96 <th>188 <th>177 <th>24 <th>50 <th>50 <th>50 <th>50 <th>0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	17 <th>96 <th>188 <th>177 <th>24 <th>50 <th>50 <th>50 <th>50 <th>0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th></th></th></th></th></th></th></th></th></th>	96 <th>188 <th>177 <th>24 <th>50 <th>50 <th>50 <th>50 <th>0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th></th></th></th></th></th></th></th></th>	188 <th>177 <th>24 <th>50 <th>50 <th>50 <th>50 <th>0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th></th></th></th></th></th></th></th>	177 <th>24 <th>50 <th>50 <th>50 <th>50 <th>0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th></th></th></th></th></th></th>	24 <th>50 <th>50 <th>50 <th>50 <th>0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th></th></th></th></th></th>	50 <th>50 <th>50 <th>50 <th>0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th></th></th></th></th>	50 <th>50 <th>50 <th>0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th></th></th></th>	50 <th>50 <th>0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th></th></th>	50 <th>0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th></th>	0 <th>50 <th>50 <th>0 <th>0 </th></th></th></th>	50 <th>50 <th>0 <th>0 </th></th></th>	50 <th>0 <th>0 </th></th>	0 <th>0 </th>	0
DESIGN SURFACE	148.312	148.210	148.210	148.210	148.210	148.110	148.110	148.125	147.940	147.940	147.785	147.828	147.828	147.828	147.828
DIFFERENCE (mm)	1	17	96	188	177	24	50	50	50	50	0	50	50	0	0
EXISTING SURFACE	148.304	148.300	148.184	148.012	148.033	148.036	148.060	148.075	147.790	147.788	147.785	147.828	147.828	147.828	147.828
OFFSET	-7.736	-7.436	-5.936	-3.750	-3.640	-3.150	0.000	0.000	3.150	3.450	5.578	7.091	7.091	7.091	7.091

CL - CENTRELINE
 LOK - LIP OF KERB
 BOK - BACK OF KERB
 BL - BOUNDARY LINE
 BULL - VEHICLE CROSSING BULL NOSE
 FOPP - FRONT OF FOOTPATH
 BOFP - BACK OF FOOTPATH
 Ex FP - EXISTING EDGE OF FOOTPATH

CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) - CENTRELINE 'A'



VER	DESCRIPTION	DATE
09	FOR CONSTRUCTION	28-08-2020
08	FOR CONSTRUCTION	27-08-2020
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CIVIL ENGINEERING DESIGN
 LUKE WHITFIELD
 REGISTERED & CHARTERED PROFESSIONAL ENGINEER'S REVIEW
 CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE
 AS SHOWN @ A1

HEIGHT DATUM
 AHD

COORDINATE DATUM
 MGA 94 ZONE 55

SURVEY DATE
 25-11-2019

AERIAL IMAGE DATE
 17-02-2020

LOCAL GOVERNMENT AREA
CITY OF MAROONDHA

CLIENT

 City Council

CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON | MAROONDHA CITY COUNCIL

FOR CONSTRUCTION

ROAD & DRAINAGE RECONSTRUCTION WORKS

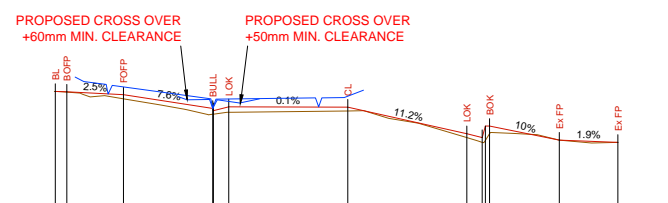
LAURENCE GROVE, RINGWOOD EAST

CROSS-SECTIONS - CENTRELINE 'A' - CH 91.500 TO CH 122.000

PROJECT No.	PC18081
SHEET No.	16 OF 20
VERSION	09
DWG No.	PC18081-16-09

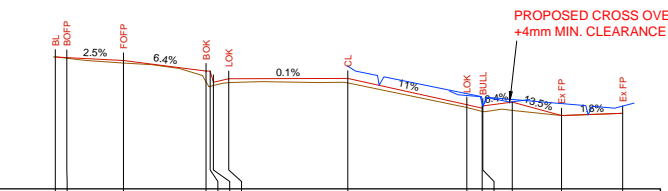


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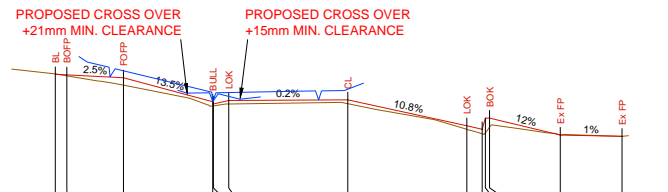
DATUM 147.0	
DESIGN SURFACE	0 148.739 4 148.731 54 148.694 78 148.513 47 148.533 71 148.530 51 148.530 50 148.178 64 148.128 64 148.064 101 148.278 101 148.093 0 148.093 0 148.063
DIFFERENCE (mm)	0 148.739 4 148.731 54 148.694 78 148.513 47 148.533 71 148.530 51 148.530 50 148.178 64 148.128 64 148.064 101 148.278 101 148.093 0 148.093 0 148.063
EXISTING SURFACE	-7.736 148.739 -7.436 148.727 -5.936 148.639 -3.570 148.435 -3.560 148.436 -3.150 148.462 0.000 148.479 3.150 148.129 3.560 148.064 3.570 148.091 3.150 148.177 5.598 148.093 7.146 148.063
OFFSET	-7.736 -7.436 -5.936 -3.570 -3.560 -3.150 0.000 3.150 3.560 3.570 3.150 5.598 7.146

VEHICLE CROSSOVER AT No. 13 CH 148.000



DATUM 147.0	
DESIGN SURFACE	0 148.745 9 148.738 33 148.700 145 148.550 203 148.500 203 148.460 203 148.463 60 148.463 41 148.117 39 148.067 70 148.097 107 148.147 0 147.971 0 147.999
DIFFERENCE (mm)	0 148.745 9 148.738 33 148.700 145 148.550 203 148.500 203 148.460 203 148.463 60 148.463 41 148.117 39 148.067 70 148.097 107 148.147 0 147.971 0 147.999
EXISTING SURFACE	-7.736 148.745 -7.436 148.729 -5.936 148.668 -3.570 148.415 -3.560 148.369 -3.150 148.406 0.000 148.403 3.150 148.077 3.560 148.028 3.570 148.027 4.350 148.040 5.652 147.971 7.274 147.999
OFFSET	-7.736 -7.436 -5.936 -3.570 -3.560 -3.150 0.000 3.150 3.560 3.570 4.350 5.652 7.274

CH 139.000 VEHICLE CROSSOVER AT No. 12



DATUM 147.0	
DESIGN SURFACE	-4 148.752 13 148.745 99 148.707 53 148.587 22 148.557 50 148.415 50 148.073 50 148.023 58 147.965 189 148.178 120 147.949 0 147.949 0 147.932
DIFFERENCE (mm)	-4 148.752 13 148.745 99 148.707 53 148.587 22 148.557 50 148.415 50 148.073 50 148.023 58 147.965 189 148.178 120 147.949 0 147.949 0 147.932
EXISTING SURFACE	-7.736 148.757 -7.436 148.732 -5.936 148.609 -3.570 148.335 -3.560 148.335 -3.150 148.357 0.000 148.365 3.150 148.023 3.560 147.965 3.570 148.090 3.150 148.053 5.620 147.949 7.258 147.932
OFFSET	-7.736 -7.436 -5.936 -3.570 -3.560 -3.150 0.000 3.150 3.560 3.570 3.150 5.620 7.258

VEHICLE CROSSOVER AT No. 11 CH 132.475

DATUM 148.0	
DESIGN SURFACE	0 148.902 1 148.104 48 148.157 142 148.927 205 148.927 47 148.777 60 148.627 50 148.523 50 148.523 3.640 148.528 3.640 148.528 3.750 148.528 3.750 148.528 5.640 148.486 7.082 148.486
DIFFERENCE (mm)	0 148.902 1 148.104 48 148.157 142 148.927 205 148.927 47 148.777 60 148.627 50 148.523 50 148.523 3.640 148.528 3.640 148.528 3.750 148.528 3.750 148.528 5.640 148.486 7.082 148.486
EXISTING SURFACE	-7.736 148.202 -7.436 148.104 -5.936 148.109 -3.750 148.785 -3.640 148.722 -3.560 148.730 -3.150 148.707 0.000 148.865 3.150 148.523 3.640 148.528 3.750 148.528 5.640 148.486 7.082 148.486
OFFSET	-7.736 -7.436 -5.936 -3.750 -3.640 -3.560 -3.150 0.000 3.150 3.640 3.640 3.750 5.640 7.082

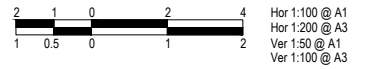
DATUM 148.0	
DESIGN SURFACE	-3 148.984 4 148.957 49 148.919 76 148.711 61 148.731 53 148.769 49 148.439 89 148.319 89 148.319 54 148.469 49 148.360 0 148.360 0 148.366
DIFFERENCE (mm)	-3 148.984 4 148.957 49 148.919 76 148.711 61 148.731 53 148.769 49 148.439 89 148.319 89 148.319 54 148.469 49 148.360 0 148.360 0 148.366
EXISTING SURFACE	-7.736 148.957 -7.436 148.953 -5.936 148.871 -3.570 148.635 -3.560 148.635 -3.150 148.659 0.000 148.717 3.150 148.390 3.570 148.358 3.570 148.358 4.350 148.415 5.509 148.360 7.066 148.366
OFFSET	-7.736 -7.436 -5.936 -3.570 -3.560 -3.150 0.000 3.150 3.570 3.570 4.350 5.509 7.066

DATUM 148.0	
DESIGN SURFACE	0 148.919 -16 148.911 14 148.874 155 148.810 202 148.810 45 148.660 59 146.710 50 146.738 51 146.410 73 146.360 81 146.440 0 146.305 0 146.353
DIFFERENCE (mm)	0 148.919 -16 148.911 14 148.874 155 148.810 202 148.810 45 148.660 59 146.710 50 146.738 51 146.410 73 146.360 81 146.440 0 146.305 0 146.353
EXISTING SURFACE	-7.736 148.919 -7.436 148.927 -5.936 148.960 -3.750 148.855 -3.640 148.808 -3.560 148.815 -3.150 148.850 0.000 148.888 3.150 148.360 3.570 148.317 4.350 148.359 5.516 148.305 7.061 148.353
OFFSET	-7.736 -7.436 -5.936 -3.750 -3.640 -3.560 -3.150 0.000 3.150 3.570 4.350 5.516 7.061

DATUM 147.0	
DESIGN SURFACE	2 148.723 3 148.723 8 148.685 163 148.656 188 148.508 43 148.516 50 148.501 50 148.148 50 148.198 188 148.348 188 148.348 103 148.298 0 148.149 0 148.079
DIFFERENCE (mm)	2 148.723 3 148.723 8 148.685 163 148.656 188 148.508 43 148.516 50 148.501 50 148.148 50 148.198 188 148.348 188 148.348 103 148.298 0 148.149 0 148.079
EXISTING SURFACE	-7.736 148.723 -7.436 148.720 -5.936 148.678 -3.750 148.493 -3.640 148.458 -3.560 148.463 -3.150 148.506 0.000 148.501 3.150 148.148 3.560 148.112 3.750 148.195 5.581 148.149 7.148 148.079
OFFSET	-7.736 -7.436 -5.936 -3.750 -3.640 -3.560 -3.150 0.000 3.150 3.560 3.750 5.581 7.148

DATUM 148.0	
DESIGN SURFACE	-3 148.941 -2 148.926 21 149.251 71 148.919 40 148.938 66 148.938 45 149.015 36 148.680 13 148.630 86 148.710 86 148.710 0 148.593 0 148.551
DIFFERENCE (mm)	-3 148.941 -2 148.926 21 149.251 71 148.919 40 148.938 66 148.938 45 149.015 36 148.680 13 148.630 86 148.710 86 148.710 0 148.593 0 148.551
EXISTING SURFACE	-7.736 148.941 -7.436 148.938 -5.936 149.229 -3.570 148.848 -3.560 148.848 -3.150 148.872 0.000 148.970 3.150 148.644 3.560 148.617 4.350 148.623 5.564 148.593 7.380 148.552
OFFSET	-7.736 -7.436 -5.936 -3.570 -3.560 -3.150 0.000 3.150 3.560 4.350 5.564 7.380

CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) - CENTRELINE 'A'



DATUM 148.0	
DESIGN SURFACE	0 149.406 54 149.396 101 149.361 85 149.063 50 149.063 40 149.144 29 148.818 12 148.768 16 146.736 52 146.846 0 146.734 0 146.687
DIFFERENCE (mm)	0 149.406 54 149.396 101 149.361 85 149.063 50 149.063 40 149.144 29 148.818 12 148.768 16 146.736 52 146.846 0 146.734 0 146.687
EXISTING SURFACE	-7.736 149.406 -7.436 149.345 -5.936 149.260 -3.570 148.978 -3.560 148.980 -3.150 148.953 0.000 149.104 3.150 148.790 3.560 148.780 4.350 148.791 5.594 148.734 7.095 148.687
OFFSET	-7.736 -7.436 -5.936 -3.570 -3.560 -3.150 0.000 3.150 3.560 4.350 5.594 7.095

VEHICLE CROSSOVER AT No. 19 CH 182.000 VEHICLE CROSSOVER AT No. 18

DATUM 148.0	
DESIGN SURFACE	-0 148.349 0 148.354 40 149.259 73 148.941 43 148.911 63 148.961 44 149.035 31 148.701 16 148.651 16 148.681 93 148.731 0 148.637 0 148.581
DIFFERENCE (mm)	-0 148.349 0 148.354 40 149.259 73 148.941 43 148.911 63 148.961 44 149.035 31 148.701 16 148.651 16 148.681 93 148.731 0 148.637 0 148.581
EXISTING SURFACE	-7.736 149.349 -7.436 149.354 -5.936 149.218 -3.570 148.668 -3.560 148.668 -3.150 148.696 0.000 148.991 3.150 148.670 3.560 148.635 4.350 148.658 5.570 148.637 7.277 148.584
OFFSET	-7.736 -7.436 -5.936 -3.570 -3.560 -3.150 0.000 3.150 3.560 4.350 5.570 7.277

VEHICLE CROSSOVER AT No. 17 CH 176.500 VEHICLE CROSSOVER AT No. 16

DATUM 148.0	
DESIGN SURFACE	-3 149.341 -2 149.326 21 149.251 71 148.919 40 148.938 66 148.938 45 149.015 36 148.680 13 148.630 86 148.710 86 148.710 0 148.593 0 148.551
DIFFERENCE (mm)	-3 149.341 -2 149.326 21 149.251 71 148.919 40 148.938 66 148.938 45 149.015 36 148.680 13 148.630 86 148.710 86 148.710 0 148.593 0 148.551
EXISTING SURFACE	-7.736 149.343 -7.436 149.328 -5.936 149.229 -3.570 148.848 -3.560 148.848 -3.150 148.872 0.000 148.970 3.150 148.644 3.560 148.617 4.350 148.623 5.564 148.593 7.380 148.552
OFFSET	-7.736 -7.436 -5.936 -3.570 -3.560 -3.150 0.000 3.150 3.560 4.350 5.564 7.380

VEHICLE CROSSOVER AT No. 17 CH 175.500 VEHICLE CROSSOVER AT No. 16

CL - CENTRELINE
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 FOFP - FRONT OF FOOTPATH
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VER	DESCRIPTION	DATE

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ORIENTATION

 OR AS SHOWN

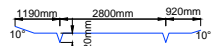
ORIGINAL SCALE & SHEET SIZE
 AS SHOWN @ A1
 HEIGHT DATUM
 AHD
 COORDINATE DATUM
 MGA 94 ZONE 55
 SURVEY DATE
 25-11-2019
 AERIAL IMAGE DATE
 17-02-2020

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH
 CLIENT

 CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON | MAROONDAH CITY COUNCIL

FOR CONSTRUCTION
ROAD & DRAINAGE RECONSTRUCTION WORKS
 LAURENCE GROVE, RINGWOOD EAST
 CROSS-SECTIONS - CENTRELINE 'A' - CH 132.475 TO CH 182.000

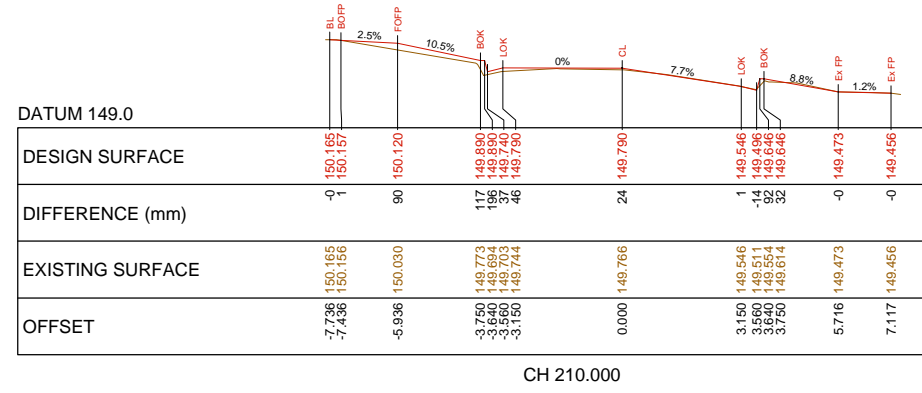
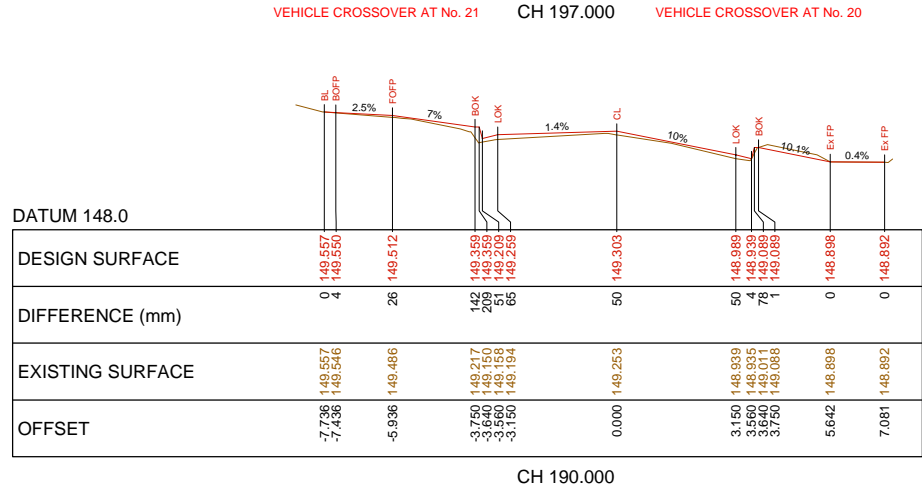
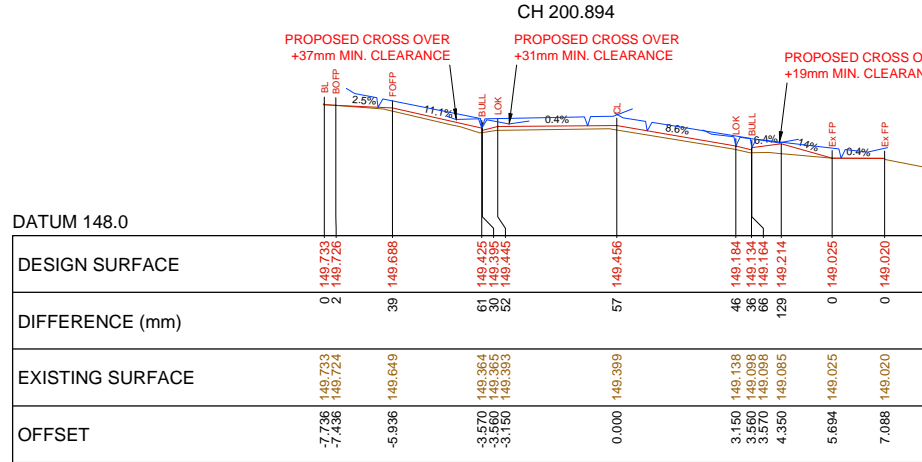
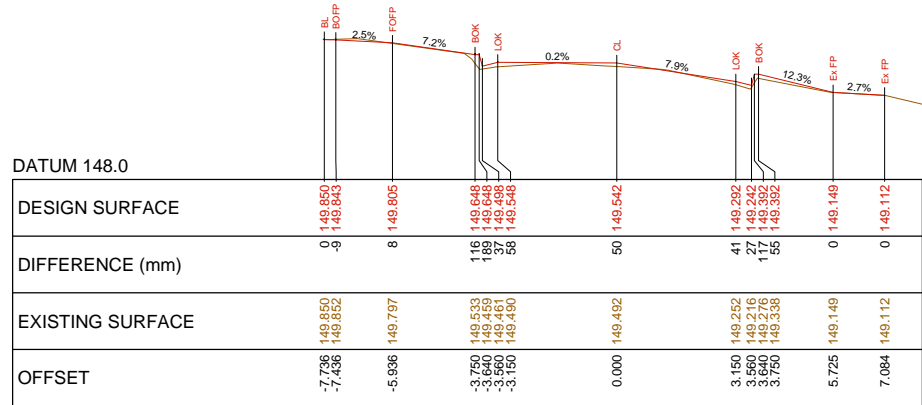
PROJECT No.	PC18081
SHEET No.	17 OF 20
VERSION	09
DWG No.	PC18081-17-09



AS2890.1 - B85 VEHICLE TEMPLATE
 SCALED AT H:1:100 V:1:50
 (VERTICAL EXAGGERATION OF 2)

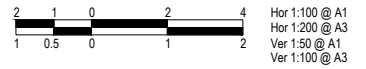


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CROSS-SECTIONS - REFERENCE LINE (OFFSET 0.00) - CENTRELINE 'A'



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OR AS SHOWN

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ROAD & DRAINAGE RECONSTRUCTION WORKS

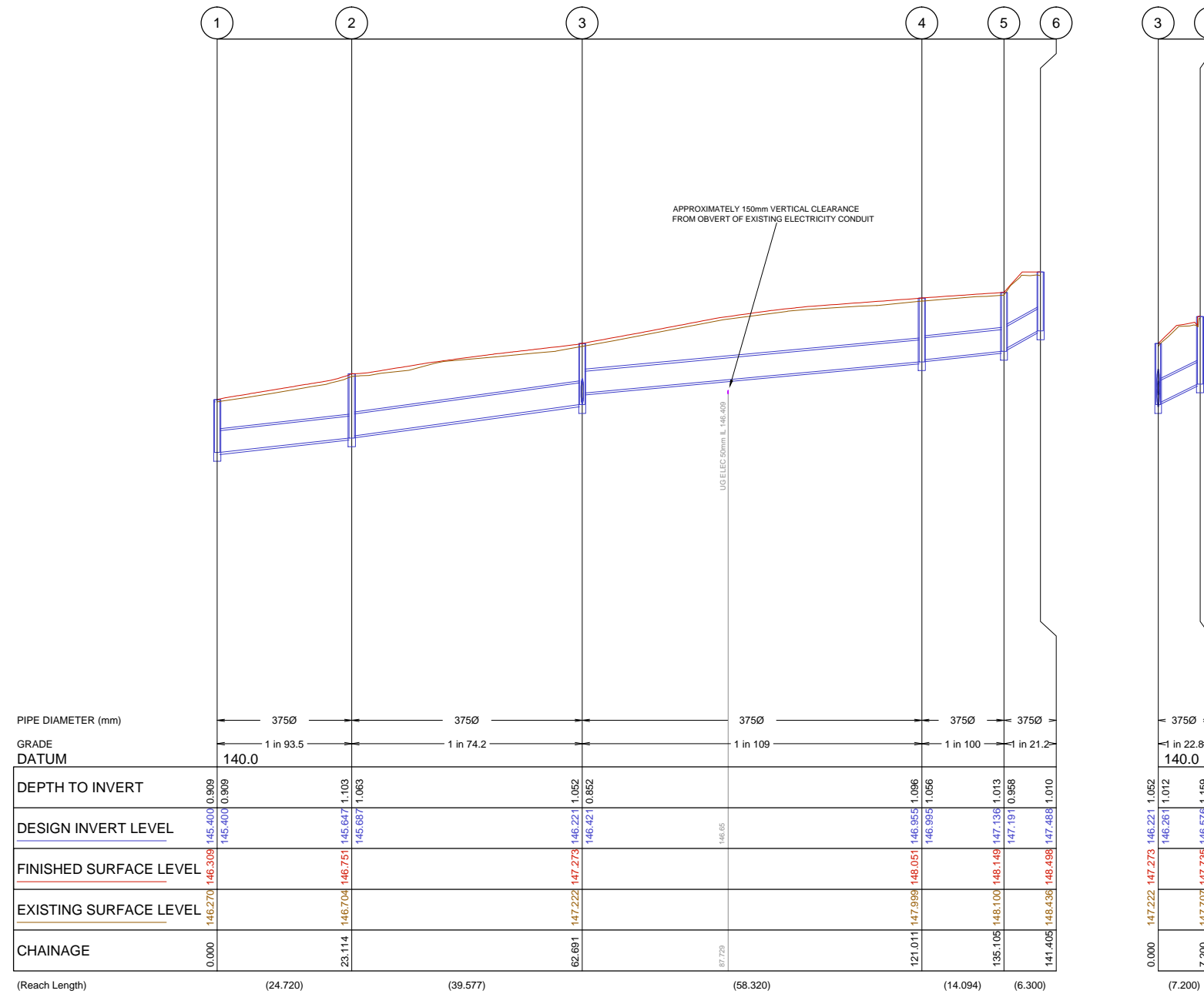
LAURENCE GROVE, RINGWOOD EAST

CROSS-SECTIONS - CENTRELINE 'A' - CH 190.000 TO CH 210.000

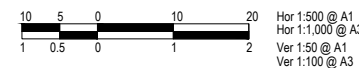
PROJECT No.	PC18081
SHEET No.	18 OF 20
VERSION	09
DWG No.	PC18081-18-09



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DRAINAGE LONGITUDINAL SECTIONS



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VER	DESCRIPTION	DATE

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CIVIL ENGINEERING DESIGN
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 REGISTERED & CHARTERED PROFESSIONAL ENGINEER'S REVIEW
 CHRIS PROCTOR

ORIENTATION

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ORIGINAL SCALE & SHEET SIZE
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HEIGHT DATUM
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CITY OF MAROONDAH

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FOR CONSTRUCTION

ROAD & DRAINAGE RECONSTRUCTION WORKS
 LAURENCE GROVE, RINGWOOD EAST

DRAINAGE LONGITUDINAL SECTIONS

PROJECT No.
PC18081

SHEET No.
19 OF 20

VERSION
09

DWG No.
 PC18081-19-09



WARNING
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATION OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

DRAINAGE PIT SCHEDULE

PIT NAME	PIT TYPE	SETOUT EASTING (m)	SETOUT NORTHING (m)	INTERNAL		INLET		OUTLET		PIT SETOUT RL (m)	PIT DEPTH (m)	REFERENCE
				WIDTH (mm)	LENGTH (mm)	DIA (mm)	INV LEV (m)	DIA (mm)	INV LEV (m)			
1	GSEP & JP	345915.698	5813536.341	900 750	900 900	375	145.400	375	145.400	146.309	0.91	Construct new grated side entry pit with access chamber behind kerb in accordance with Maroondah City Council Staandard Drawing SD-D01 & SD-D03
2	GSEP	345923.499	5813514.583	900	900	375	145.687	375	145.647	146.751	1.10	Construct new grated side entry pit in accordance with Maroondah City Council Standard Drawing SD-D03
3	GSEP	345924.261	5813475.014	900	900	375 375	146.421 146.261	375	146.221	147.273	1.19	Construct new grated side entry pit in accordance with Maroondah City Council Standard Drawing SD-D03
4	GSEP	345925.147	5813416.701	900	900	375	146.995	375	146.955	148.051	1.05	Construct new grated side entry pit in accordance with Maroondah City Council Standard Drawing SD-D03
5	GSEP	345925.361	5813402.608	900	900	375	147.191	375	147.136	148.149	1.01	Construct new grated side entry pit in accordance with Maroondah City Council Standard Drawing SD-D03
6	GSEP	345931.660	5813402.704	750	900	-	-	375	147.488	148.498	1.01	Construct new grated side entry pit in accordance with Maroondah City Council Standard Drawing SD-D03
7	SEP	345931.460	5813475.123	750	900	-	-	375	146.576	147.735	1.16	Construct new side entry pit in accordance with Maroondah City Council Standard Drawing SD-D01
8	GP			450	450	-	-	150	147.175	147.625	0.45	Construct new grated junction pit in accordance with Maroondah City Council Standard Drawing SD-D06
9	SEP	345922.492	5813538.942	750	900	Ex 225	Ex 145.71	Ex 225	Ex 145.71	146.440	0.73	Construct new Side Entry Pit over existing drainage pipe in accordance with Maroondah City Council Standard Drawing SD-D01
10	JP	Existing	Existing	750	900	Ex 225 Ex 225	Ex 145.70 Ex 145.71	Ex 225	Ex 145.61	146.440	0.83	Remove existing Side Entry Pit & construct new Junction Pit behind kerb in accordance with Maroondah City Council Standard Drawing SD-D06
11	JP	Existing	Existing	750	900	Ex 300	Ex 145.32	Ex 225	Ex 145.17	146.380	1.21	Remove existing Side Entry Pit & construct new Junction Pit behind kerb in accordance with Maroondah City Council Standard Drawing SD-D06

NOTE:
 1. xy setout to pit centre, longitudinally along kerb - contractor to set out pit relative to kerb profile and relevant pit standard drawing
 2. setout level to pit cover level

JP - Junction Pit
 GP - Grated Junction Pit
 SEP - Side Entry Pit
 GSEP - Grated Side Entry Pit

09	FOR CONSTRUCTION	28-08-2020
08	FOR CONSTRUCTION	27-08-2020
07	FOR CONSTRUCTION	27-07-2020
06	FOR CONSTRUCTION	13-07-2020
05	FOR CONSTRUCTION	05-06-2020
04	FOR CONSTRUCTION	01-06-2020
03	DETAILED DESIGN - ISSUED FOR REVIEW	22-05-2020
02	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	12-05-2020
01	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	06-05-2020
VER	DESCRIPTION	DATE

CONSULTANT ENGINEER

PROCIVIL
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Specialist Civil Engineering Design Consultants

Commitment | Communication | Collaboration

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 www.procivil.com.au

CIVIL ENGINEERING DESIGN

LUKE WHITFIELD
 REGISTERED & CHARTERED PROFESSIONAL ENGINEER'S REVIEW

CHRIS PROCTOR

ORIENTATION

OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE
 AS SHOWN @ A1

HEIGHT DATUM
 AHD

COORDINATE DATUM
 MGA 94 ZONE 55

SURVEY DATE
 25-11-2019

AERIAL IMAGE DATE
 17-02-2020

LOCAL GOVERNMENT AREA
CITY OF MAROONDAH

CLIENT

CLIENT PROJECT MANAGER / CONTACT
 TOM DOBSON | MAROONDAH CITY COUNCIL

FOR CONSTRUCTION

ROAD & DRAINAGE RECONSTRUCTION WORKS
 LAURENCE GROVE, RINGWOOD EAST

DRAINAGE PIT SCHEDULE

PROJECT No.	PC18081
SHEET No.	20 OF 20
VERSION	09
DWG No.	PC18081 -20 - 09