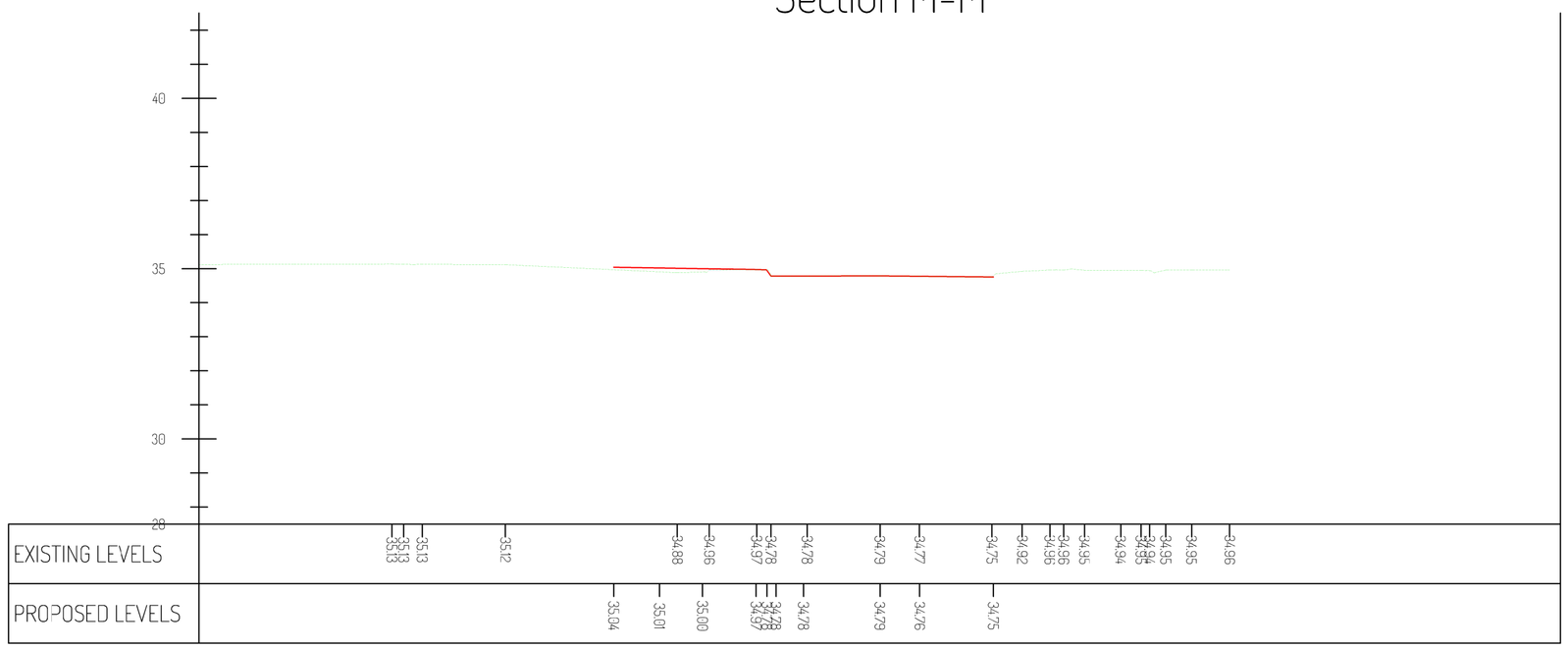
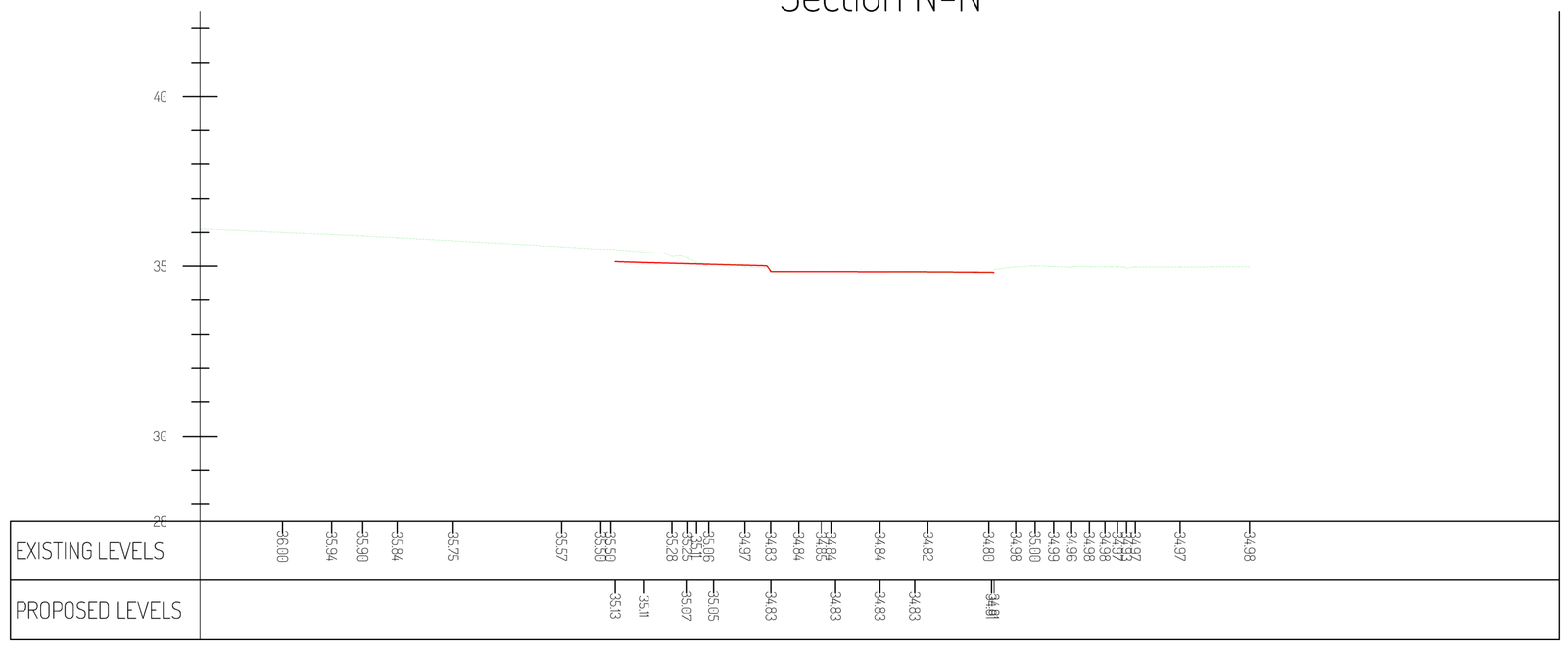
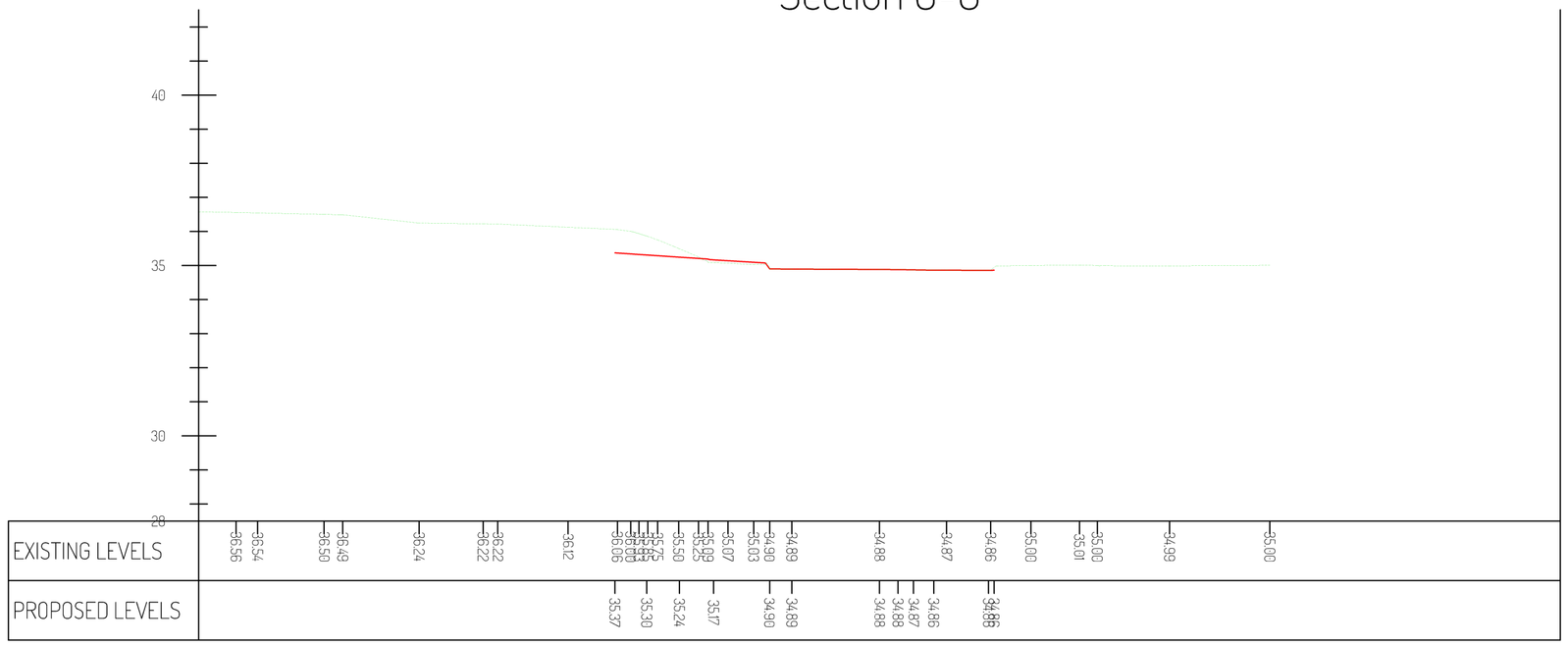
Section M-M



Section N-N



Section O-O



Notes:

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Notes Continued:

1. Existing Levels are based on topographical survey received from Keepmoat on 16/03/15
2. General arrangement is an adaptation of the layout drawing from Mecanoo Architects on 21/03/15

Key

- - - - - Existing Ground
——— Proposed Ground

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
02/02/17	P01	Issued for Information	PC	PM

Project: Leaf Street

Title: Leaf Street
Highways Sections
(Sheet 5 of 5)

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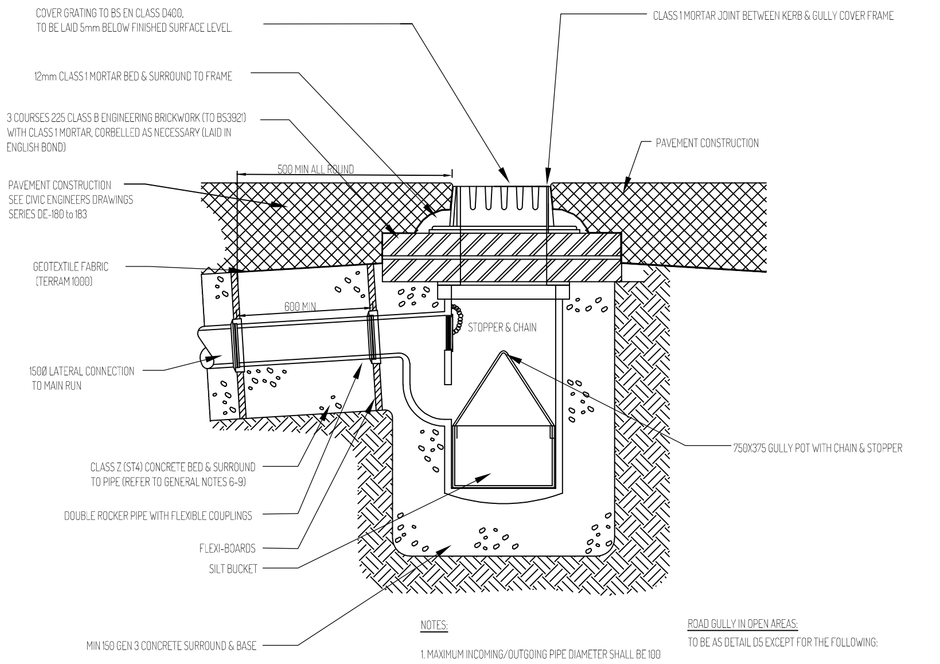
1:125@A1 1:250@A3	Feb-17	PC	PM	605/02	SE-2134	P01



NOTES:

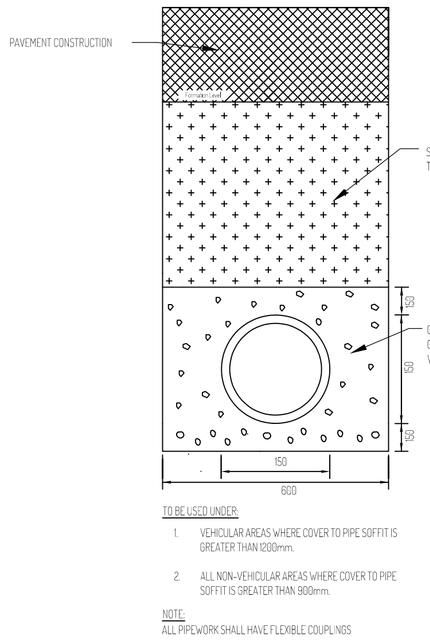
1 MAXIMUM INCOMING/OUTGOING PIPE DIAMETER SHALL BE 100 & 1500.

ROAD GULLY IN OPEN AREAS:
TO BE AS DETAIL DS EXCEPT FOR THE FOLLOWING:

1. DISHED GRATING & FRAME SHALL BE USED WHEN GULLY LOCATED ALONG P.C. DISHED CHANNEL WITHIN OPEN AREAS.
2. CLASS 1 MORTAR JOINT BETWEEN PRECAST CONCRETE DISHED CHANNEL & GULLY COVER FRAME (IF APPLICABLE).

Detail DR1.1
Typical Road Gully

Load Class D400

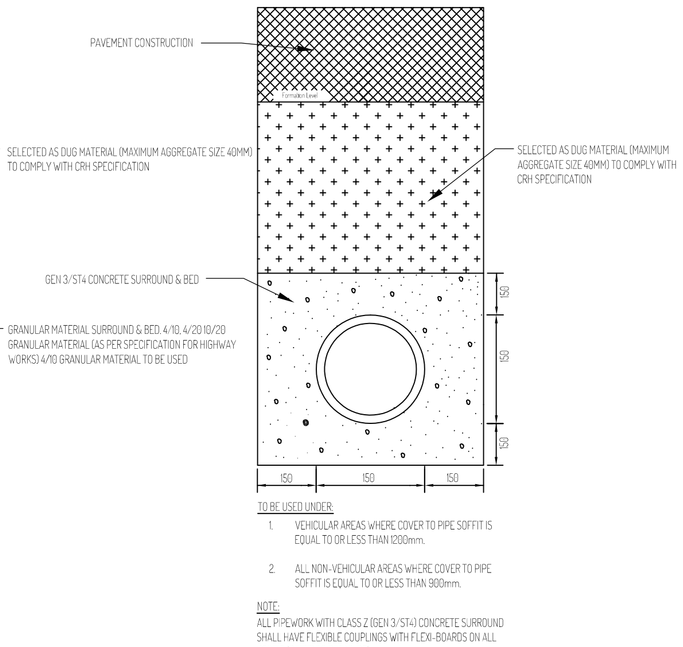


TO BE USED UNDER:

1. VEHICULAR AREAS WHERE COVER TO PIPE SOFFIT IS GREATER THAN 1200mm.
2. ALL NON-VEHICULAR AREAS WHERE COVER TO PIPE SOFFIT IS GREATER THAN 900mm.

NOTE:
ALL PIPEWORK SHALL HAVE FLEXIBLE COUPLINGS

Detail DR1.2
Class S Pipe Bedding

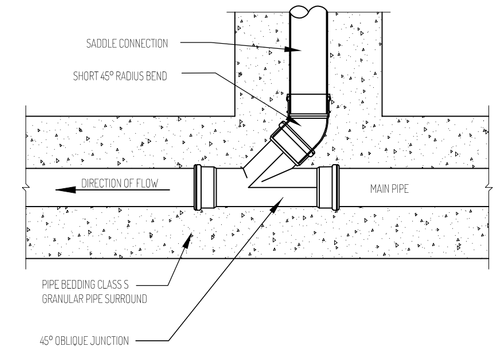


TO BE USED UNDER:

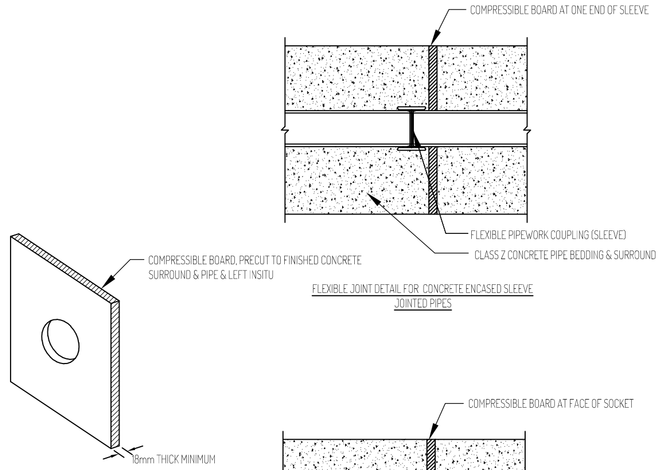
1. VEHICULAR AREAS WHERE COVER TO PIPE SOFFIT IS EQUAL TO OR LESS THAN 1200mm.
2. ALL NON-VEHICULAR AREAS WHERE COVER TO PIPE SOFFIT IS EQUAL TO OR LESS THAN 900mm.

NOTE:
ALL PIPEWORK WITH CLASS Z (GEN 3 / ST4) CONCRETE SURROUND SHALL HAVE FLEXIBLE COUPLINGS WITH FLEXI-BOARDS ON ALL JOINTS (REFER TO DETAIL DB)

Detail DR1.3
Class Z Pipe Bedding



Detail DR1.3
45° SEWER PIPE JUNCTION CONNECTION



FLEXIBLE JOINT DETAIL FOR CONCRETE ENCASED SLEEVE JOINTED PIPES

FLEXIBLE JOINT DETAIL FOR CONCRETE ENCASED SPIGOT & SOCKET JOINTED PIPES

Detail DR1.4
FLEXIBLE JOINT DETAIL FOR CONCRETE ENCASED PIPES (TO B.S. 1142)

Notes:

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Notes Continued:

BENCHING:
Main & branch channels to be bedded & jointed in 1:3 cement mortar. main channel benching to be formed vertically to a minimum of the soffit of the outlet pipe.

The benching shall be rounded off to a radius of approximately 25mm & sloped upwards at a gradient of 1:10 to 1:30 to chamber walls. benching shall be floated to a smooth, hard surface with a 1:2 cement mortar laid monolithic with the benching. side branches of diameter up to & including 150Ø should discharge to the main channel in the direction of flow, preferably at half pipe level.

Where the connecting angle is more than 45°, three quarter section bends should be shaped so as to contain the flow without permitting fouling & to facilitate rodding of branch drains. a branch with greater than 150Ø should be set with the soffit level with that of the main drain.

Notes Continued:

Covers & Frames:

Oversail corbelling shall not exceed 30mm on each course, with a maximum of 3 courses.

All connections into & out of chambers/gullies to have class z concrete surround with flexible couplings & flexiboards on all couplings where cover to pipe soffit is equal to or less than:
1.1200mm under adoptable vehicular areas.
2.1900mm under adoptable non-vehicular areas.
3.11200mm under heavy duty non-adoptable vehicular areas.
4.1900mm under medium/light duty non-adoptable vehicular areas.
5.1600mm under non-adoptable non-vehicular areas.

Notes Continued:

Adoption:

All adoptable details shown on this drawing shall be constructed in accordance with water authorities association Sewers for Adoption 7th edition & Trafford Councils' standard specification for the construction of roads & sewers on new developments.

All concrete used in connection with sewer/drain & domestic drainage to be constructed with sulphate resisting cement.

Units:

All dimensions are in millimeters (mm) unless noted otherwise.

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
02/02/17	P01	Issued for Information	PC	PM

Project:
Leaf Street

Title:
Drainage Details
Sheet 1 of 1

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Status:
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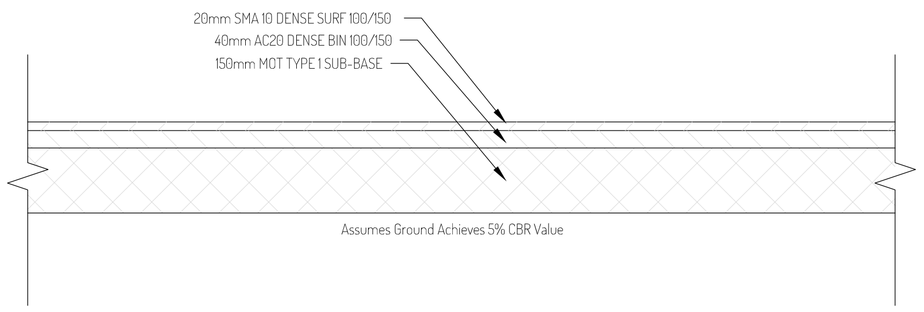
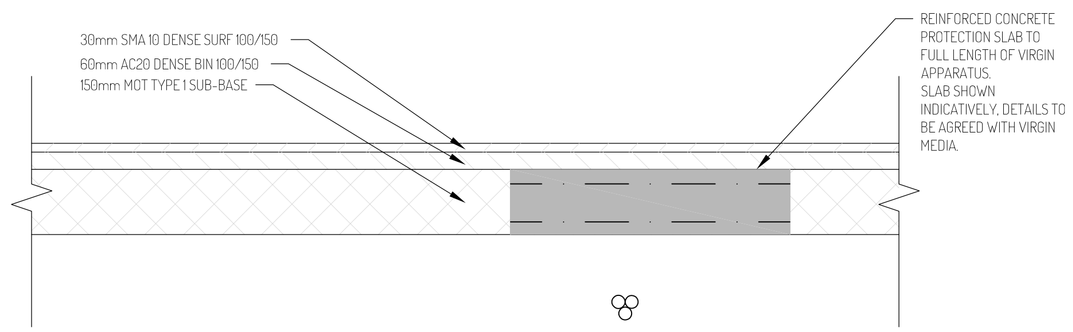
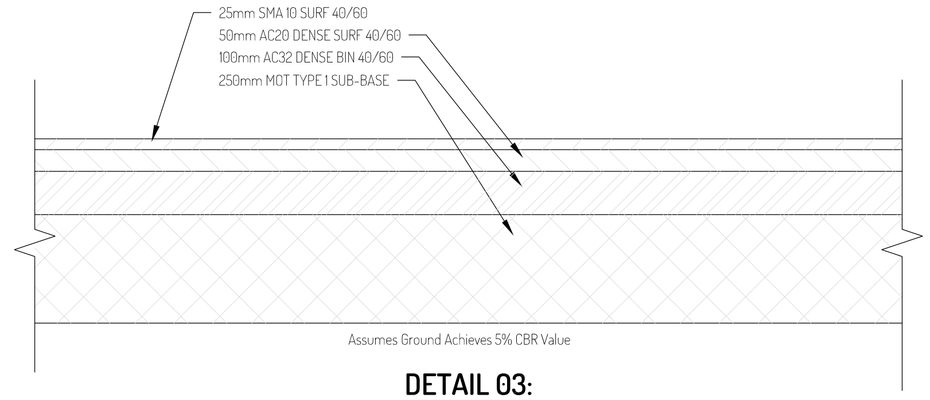
Scale:	Date:	Drawn:	Checked:	Job Number:	Drawing Number:	Revision:
N.T.S	Feb - 17	PC	PM	605/02	DE-2310	P01



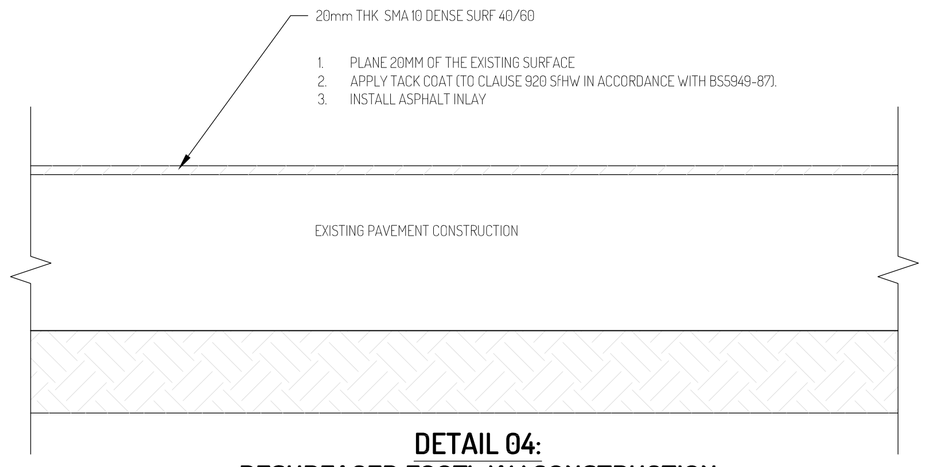
DETAIL 01:
NEW ASPHALT FOOTWAY CONSTRUCTION
Scale 1:10



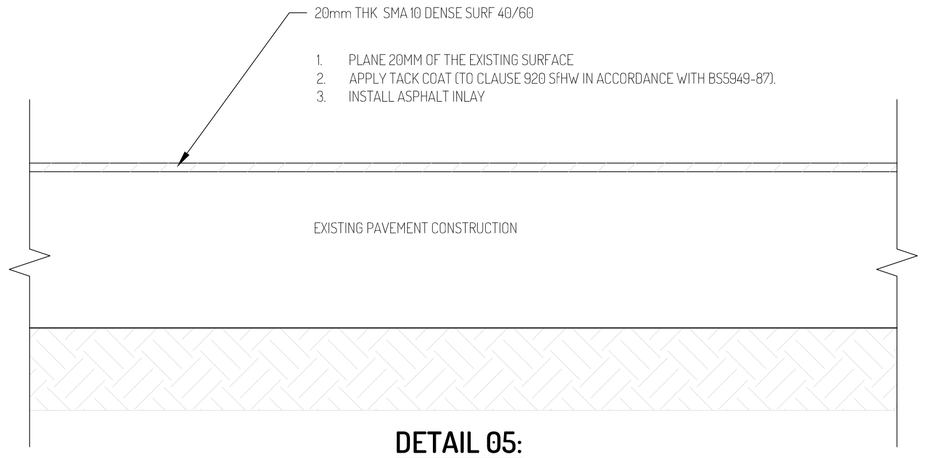
DETAIL 02:
NEW VEHICULAR FOOTWAY CROSSING CONSTRUCTION
Scale 1:10



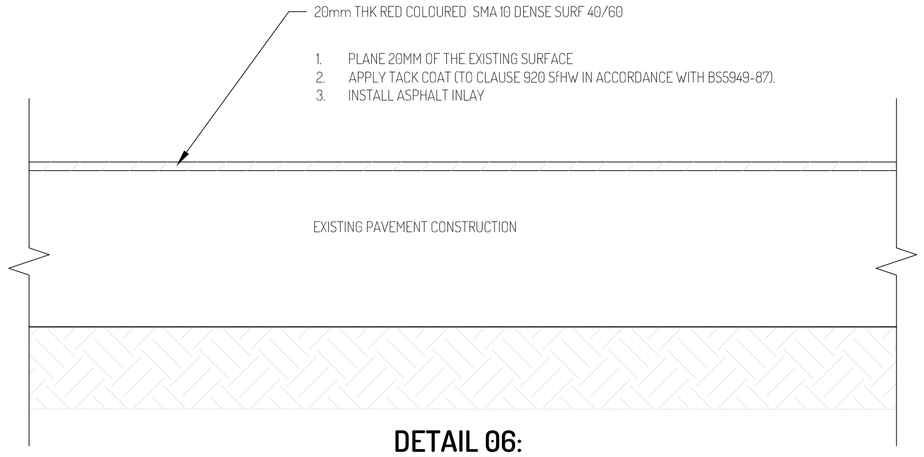
DETAIL 03:
NEW ASPHALT CARRIAGEWAY CONSTRUCTION
Scale 1:10



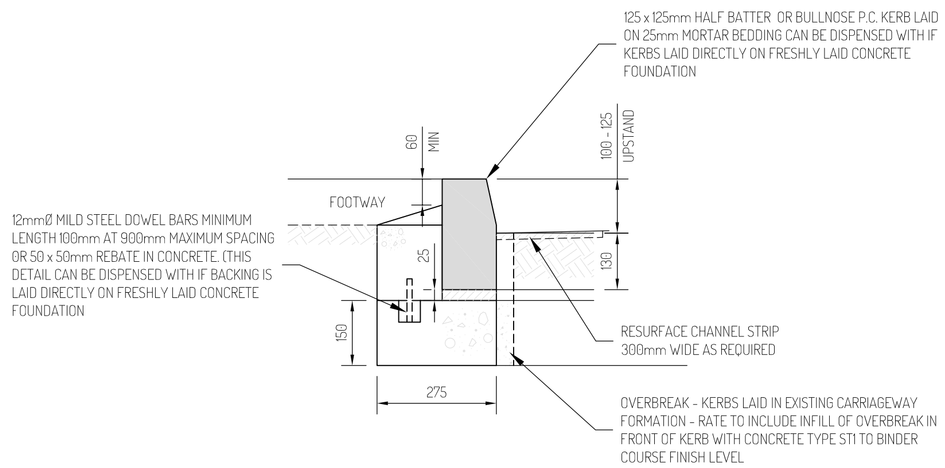
DETAIL 04:
RESURFACED FOOTWAY CONSTRUCTION
Scale 1:10



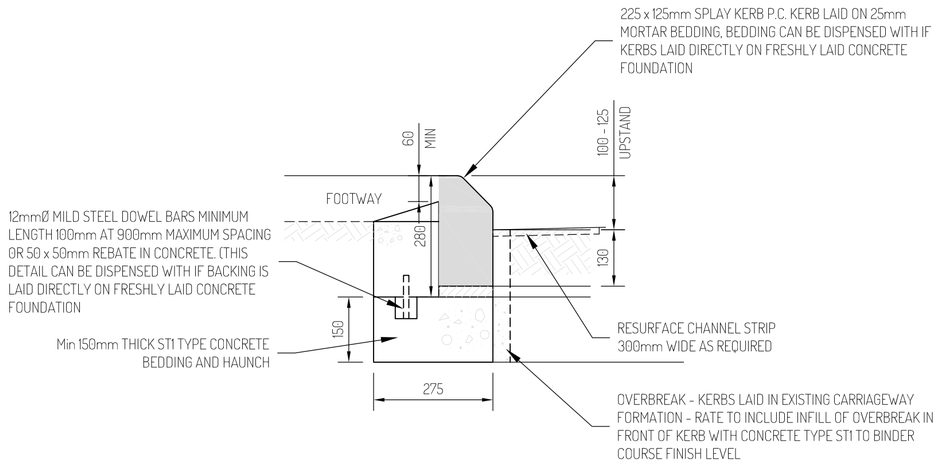
DETAIL 05:
RESURFACED CARRIAGEWAY CONSTRUCTION
Scale 1:10



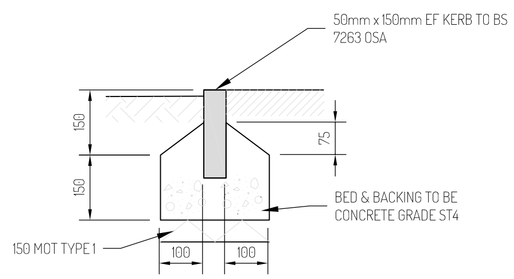
DETAIL 06:
RESURFACED CARRIAGEWAY CONSTRUCTION
Scale 1:10



DETAIL 07:
STANDARD KERB
Scale 1:10



DETAIL 08:
STANDARD KERB
Scale 1:10



DETAIL 09:
PIN KERB
Scale 1:10

Notes:	Notes Continued:	Notes Continued:	Notes Continued:	Notes Continued:
	This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and the specification. This drawing should not be scaled. All dimensions are to be verified by the contractor on site. All discrepancies should be reported to the C.A. prior to the commencement of the works. © CIVIC ENGINEERS	1. Drawing to be read in conjunction with Civic drawings 605-02-Civic-CS-01-GA-2100. 2. Any variation on the assumed ground conditions and assumed existing pavement conditions should be reported to the engineer prior to construction.		

Date:	Rev:	Description:	Drawn:	Chkd:
02/02/2017	P01	Issued for Information	PC	PM

Project: Leaf Street

Title: Pavement Details
Sheet 1 of 1

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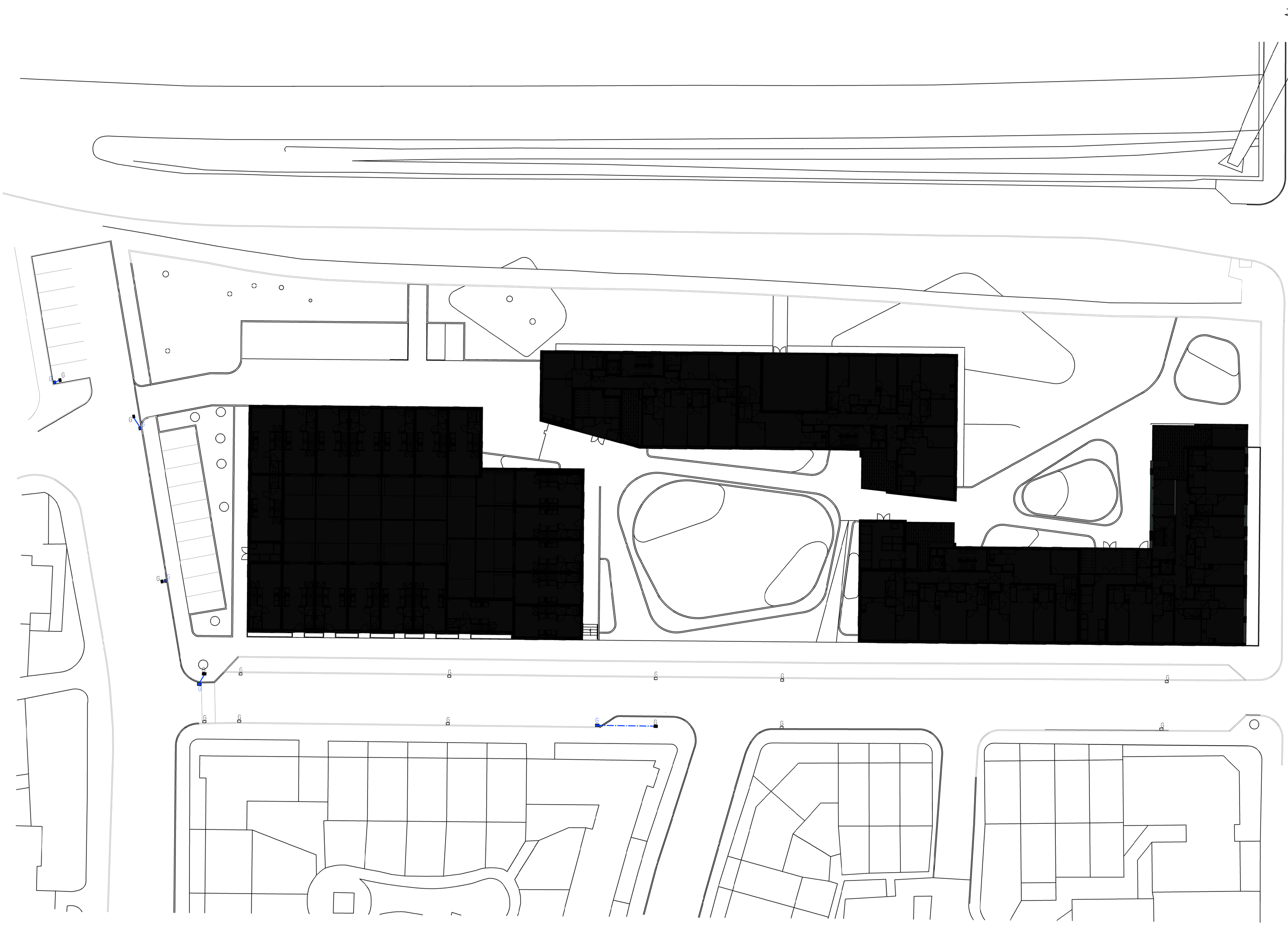
Status: INFORMATION

Scale:	Date:	Drawn:	Checked:	Job Number:	Drawing Number:	Revision:
As Shown	Jan-17	JA	PM	605/02	DE-2311	P01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Notes:

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Key:

- Reconstructed/Resurfaced footway construction
  Plane off 20mm and
  In ay 20 mm AC 6 dense surf 100/150 with tack coat
- New Asphalt footway construction of
  20 mm AC 6 dense surf 100/150
  40mm AC 20 dense bin 100/150
  150mm MOT Type 1 sub-base
- Resurfaced/reconstucted existing raised table
  Plane 20mm and replace wth tack coat and red coloured 20 mm AC 6 dense surf 100/150
- Resurfaced/reconstucted asphalt carriageway construction.
  Plane 20mm and rep ace wth tack coat and 20 mm AC 6 dense surf 100/150
- New asphalt carriageway construction of
  25mm SMA 10 surf 40/60
  50mm AC 20 dense bin 40/60
  100mm AC 32 dense bin 40/60
  250mm MOT Type 1 sub-base
- New veh cular footway crossing construction of
  36mm AC 10 close surf 100/150
  60mm AC20 dense bin 100/150
  150mm MOT Type 1 sub-base
- New Street Tree
- Existing Gully Location to be removed
- Existing Gully to Remain (cover to be reset)
- Proposed new gully (to connect into nearest existing drainage)
- New PCC Bull Nose Kerb 100-125mm upstand
- New PCC Bull Nose Kerb Nominal upstand (max 6mm)
- New PCC Splay Kerb 100-125mm upstand
- 400 by 400mm Tactile Paving Flags
  DoT 1/9t Buff Colour
- New lighting column
- Existing lighting column to be removed
- Reinforced Concrete Protection Slab to Virgin Media Duct.
  Details to be agreed with Virgin Media.

Notes Continued:

1. General Arrangement plan adapted from the layout received from Mecaroo on 14/03/16.
2. Topographical Survey received from Keppmcat on 21/03/16.
3. Pavement build ups have been developed in accordance with Manchester City Council Highways Services Standard Details (August 10)
4. All Structural defects in the existing highways surface should be repaired prior to overlay of new materials.

Date:	Rev.	Description:	Drawn:	Chkd:
02/02/17	P01	Issued for Information	PC	PM

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Project:

Leaf Street

Title:

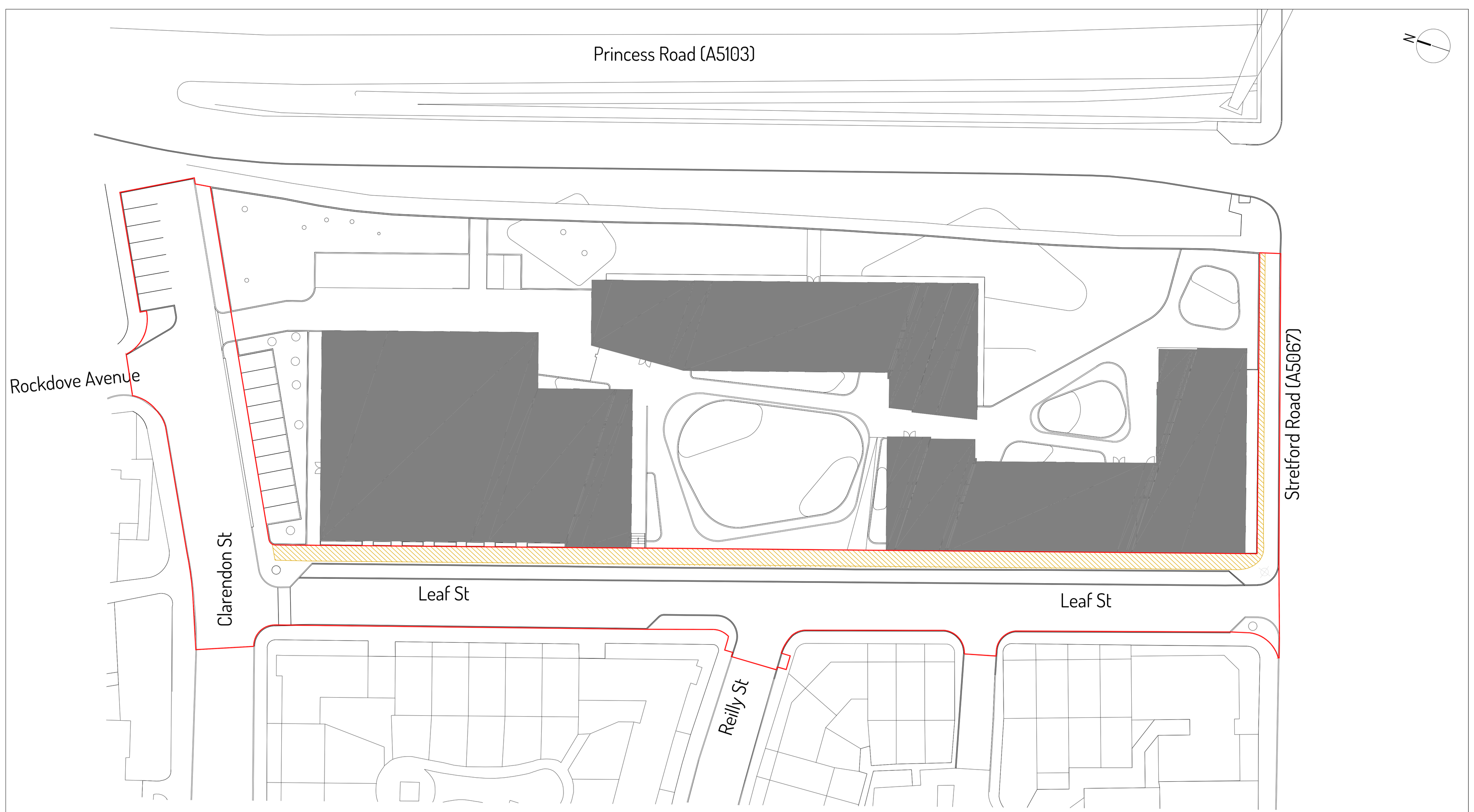
Scope of Proposed S278 Works

Status:

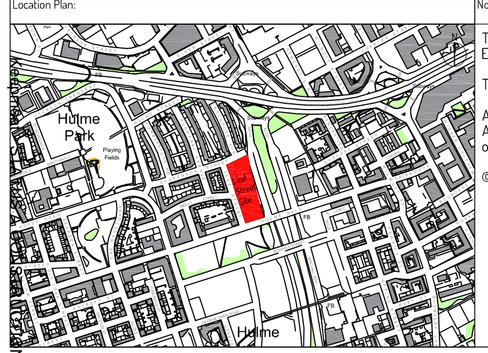
INFORMATION

Scale:	Date:	Drawn:	Checked:
1:250@A1 1:500@A3	Feb 17	PC	PM

Job Number:	Drawing Number:	Revision:
605/02	GA-2100	P01



Location Plan:



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Notes Continued:

1. General Arrangement plan received from OMI Architects on 14/03/16.

Key:

- Proposed area to be Adopted
- Extents of Proposed Works to Highway

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
05/08/16	P02	Issued for Information	PC	PM
07/06/16	P01	Issued for Information	PC	PM

Project: Leaf Street

Title: Redline Plan of Proposed S 278 Works

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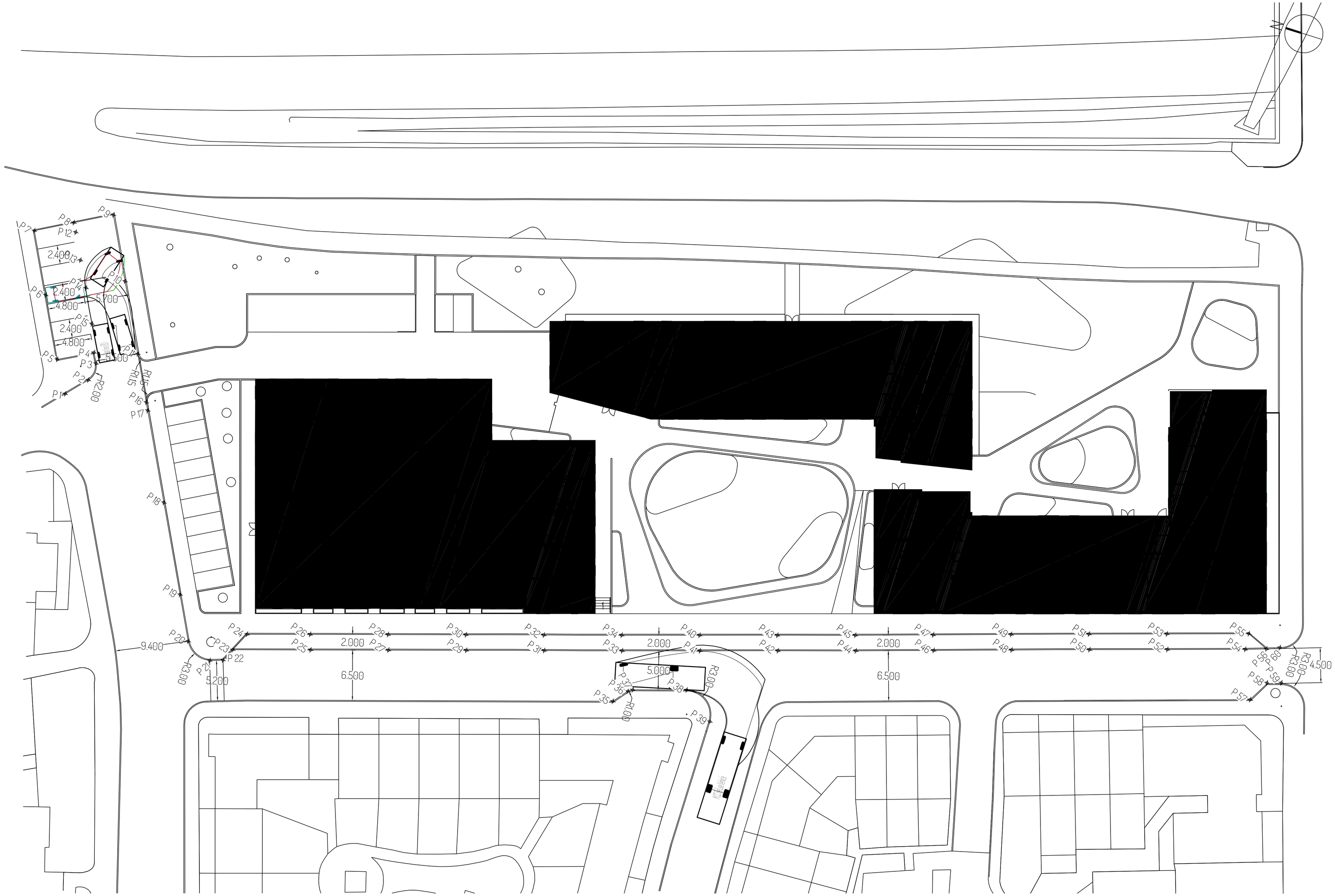
1:200@A1 1:400@A3	July-16	PC	PM	605/02	GA 2105	P02



SETTING OUT POINT DATA				
POINT No.	EASTING	NORTHING	LEVEL	DESCRIPTION
1	383680.001	396975.172	34.168	
2	383682.581	396972.881	34.190	
3	383684.906	396972.564	34.228	
4	383686.168	396973.240	34.244	
5	383683.903	396977.471	34.174	
6	383691.346	396981.363	34.273	
7	383698.789	396985.255	34.432	
8	383701.305	396980.726	34.415	
9	383703.793	396976.182	34.400	
10	383696.111	396972.192	34.310	
11	383687.695	396967.821	34.391	
12	383700.206	396980.127	34.413	
13	383696.952	396978.474	34.362	
14	383693.763	396976.712	34.311	
15	383689.611	396974.617	34.276	
16	383682.101	396964.915	34.341	
17	383681.147	396964.420	34.280	
18	383670.499	396958.887	34.147	
19	383659.850	396953.355	34.124	
20	383654.456	396950.552	34.126	
21	383652.907	396947.189	34.139	
22	383653.475	396945.561	34.177	
23	383655.112	396944.787	34.206	
24	383657.571	396943.625	34.319	
25	383658.100	396935.244	34.125	
26	383659.989	396935.895	34.383	
27	383661.082	396925.699	34.226	
28	383662.974	396926.351	34.433	
29	383664.064	396916.154	34.285	
30	383665.956	396916.805	34.458	
31	383667.049	396906.609	34.358	
32	383668.925	396907.256	34.539	
33	383670.022	396897.061	34.413	
34	383671.914	396897.713	34.616	
35	383663.476	396896.242	34.379	
36	383665.282	396894.791	34.399	
37	383665.651	396894.249	34.406	
38	383667.712	396887.635	34.547	
39	383664.742	396883.580	34.569	
40	383674.919	396888.176	34.657	
41	383673.027	396887.524	34.548	
42	383676.041	396877.989	34.624	
43	383677.915	396878.646	34.712	
44	383679.038	396868.447	34.560	
45	383680.926	396869.109	34.759	
46	383682.093	396858.926	34.655	
47	383683.981	396859.588	34.836	
48	383685.154	396849.406	34.755	
49	383687.042	396850.068	34.845	
50	383688.200	396839.882	34.830	
51	383690.088	396840.544	34.997	
52	383691.228	396830.351	34.840	
53	383693.116	396831.013	35.006	
54	383694.256	396820.820	34.890	
55	383696.311	396820.985	35.187	
56	383695.126	396818.248	34.920	
57	383688.286	396818.270	34.858	
58	383690.988	396816.865	34.881	
59	383691.545	396815.039	34.869	
60	383695.800	396816.647	35.084	

Key Plan:

Key plan.

Notes:

This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and the specification.

This drawing should not be scaled.

All dimensions are to be verified by the contractor on site.
All discrepancies should be reported to the C.A. prior to the commencement of the works.

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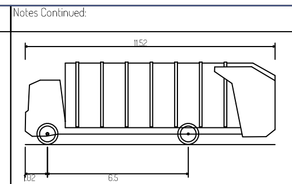
Notes Continued:

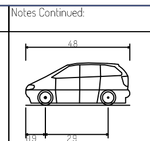
1. Existing Levels are based on topographical survey received from Keepmoat on 16/03/15
2. General arrangement is an adaptation of the layout drawing from Mecanno on 15/03/16
3. If the levels are found to be significantly different on site to the levels proposed within this drawing, the engineer should be notified as soon as possible.
4. Coordinates have been given at the front of kerb face, pavement levels assume a 100-125mm Kerb upstand with the footpath falling towards the carriageway.

Notes Continued:



MCC Refuse Vehicle	
Overall Length	11.520m
Overall Width	3.000m
Overall Body Height	3.804m
Min Body Ground Clearance	0.356m
Track Width	2.860m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	8.940m

Notes Continued:



Standard Design Vehicle (SDV)	
Overall Length	4.800m
Overall Width	2.000m
Overall Body Height	1.950m
Min Body Ground Clearance	0.100m
Track Width	2.000m
Lock to lock time	4.00s
Wall to Wall Turning Radius	6.000m

Date:	Rev:	Description:	Drawn:	Chkd:
02/02/17	PC	Issued for Information	PC	PM

Project:

Leaf Street

Title:

S278 Works Setting Out Drawing

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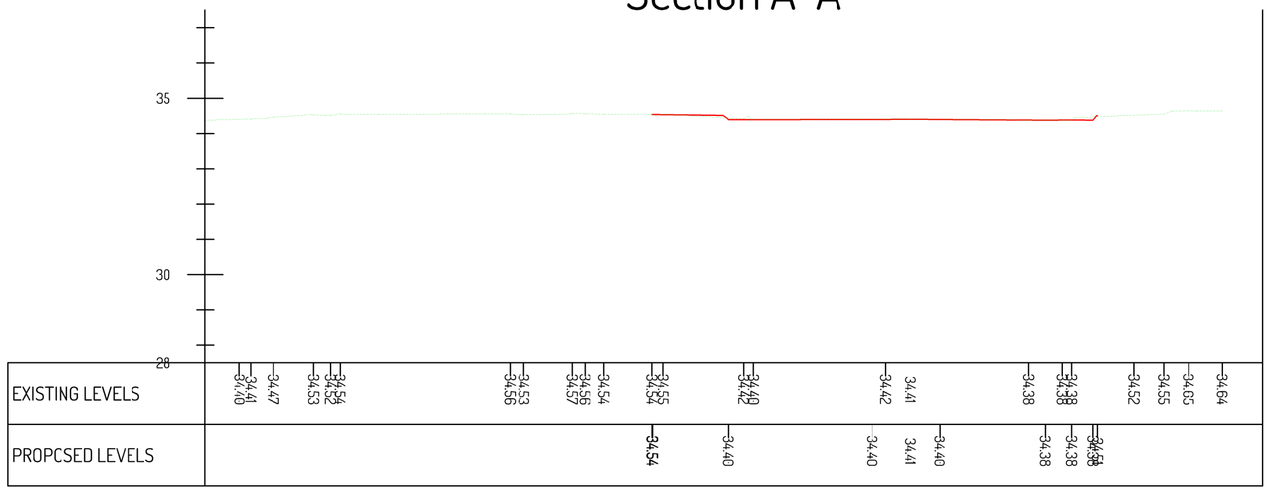
INFORMATION

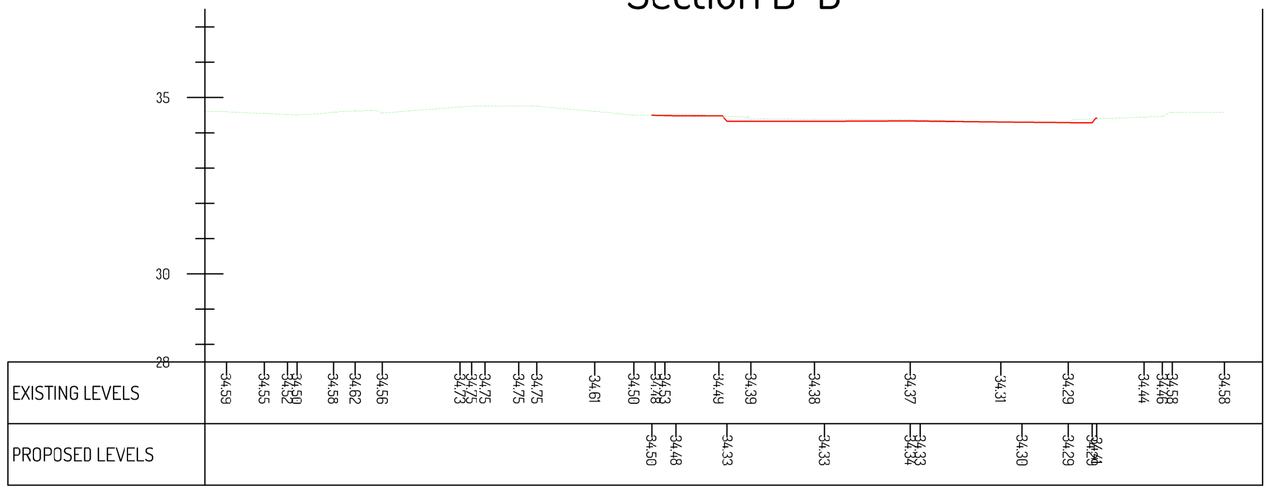
Scale:	Date:	Drawn:	Checked:	Job Number:	Drawing Number:	Revision:
1:250@A1 1:500@A1	Feb -17	PC	PM	605/02	GA-2150	P01



Section A-A



Section B-B



Notes

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Notes Continued:

1. Existing Levels are based on topographical survey received from Keepmoat on16/03/15
2. Genera arrangement is an adaptation of the layout drawing from Mecanoo Architects on 21/03/15

Key

- Existing Ground
- Proposed Ground
- Extents of Highways Works

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
05/08/16	---	DRAFT	--	--

Project: Leaf Street

Title: Clarendon Street
Highways Sections
(Sheet 1 of 3)

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Scale:	Date:	Drawn:	Checked:	Job Number:	Drawing Number:	Revision:
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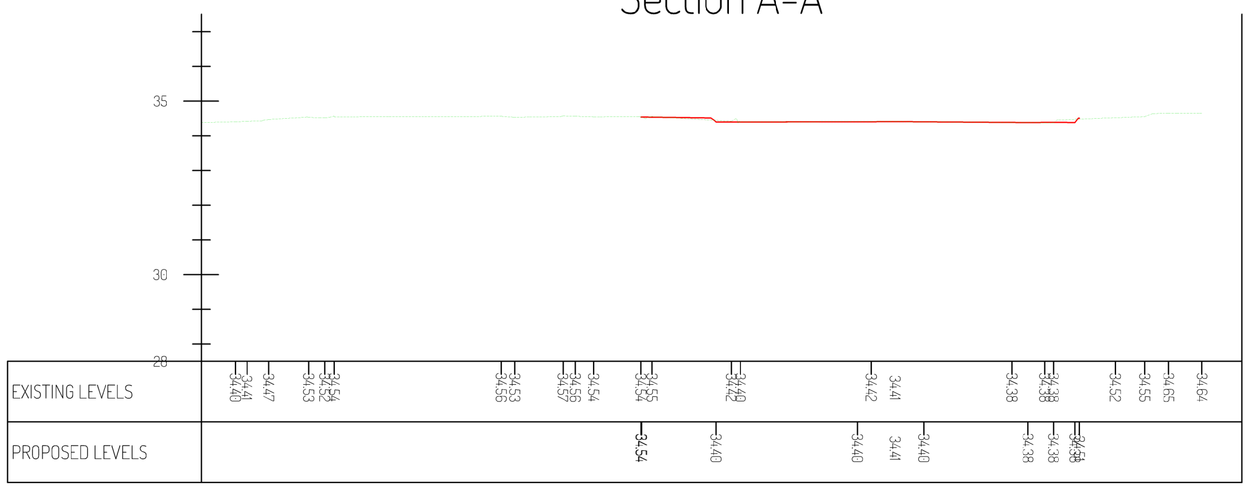
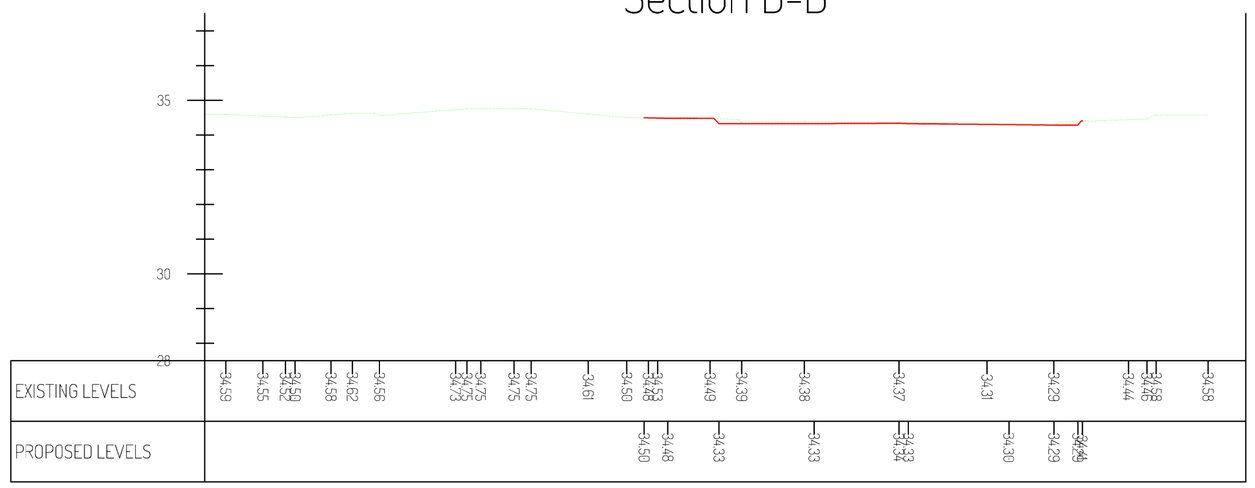
Keepmoat - STATUS A CONSTRUCTION



Section A-A



Section B-B



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Key

- Existing Ground
- Proposed Ground
- Extents of Highways Works

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
02/02/17	P01	Issued for Information	PC	PM

Project: Leaf Street

Title: Clarendon Street Highways Sections (Sheet 1 of 3)

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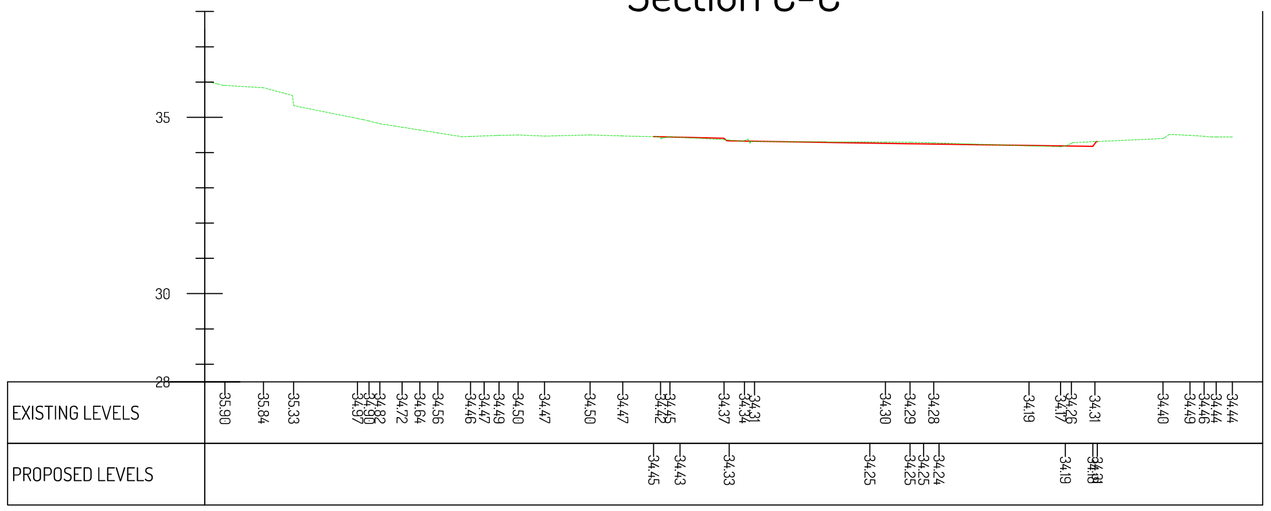
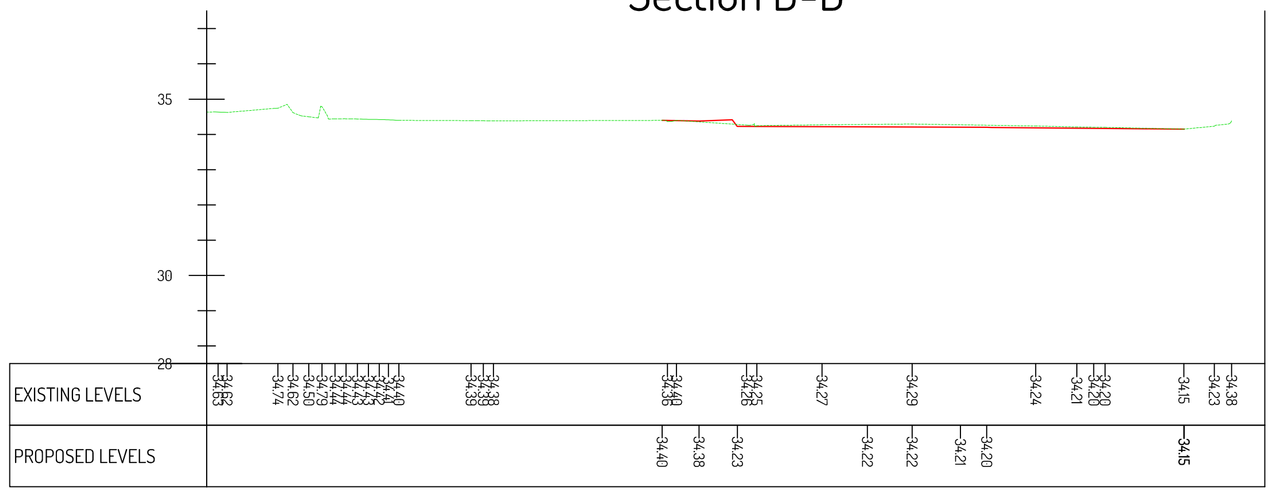
1:125@A1 1:250@A3	Feb-17	PC	PM	605/02	SE-2125	P01

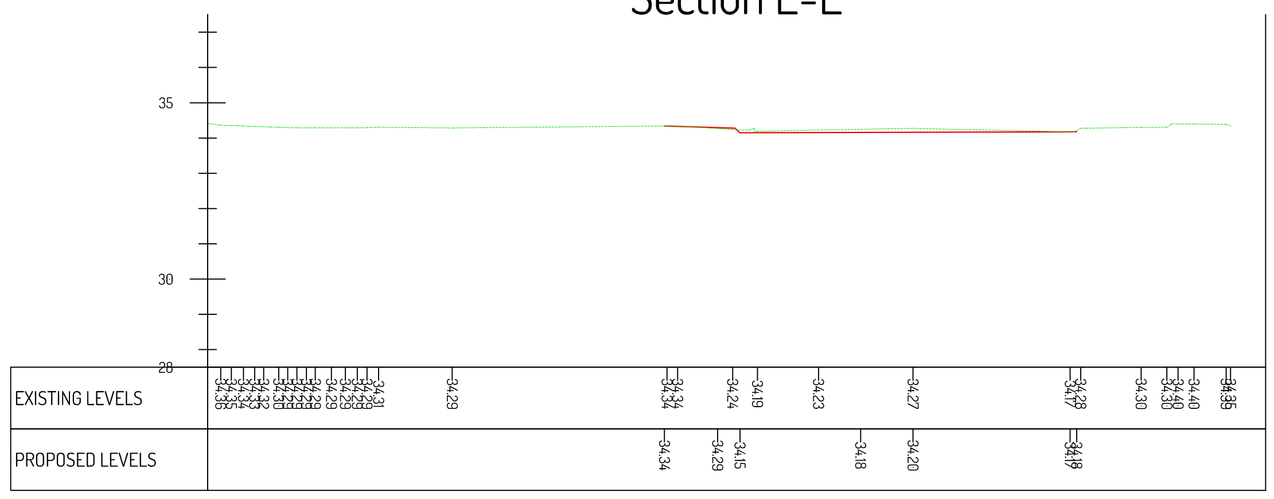
Section C-C



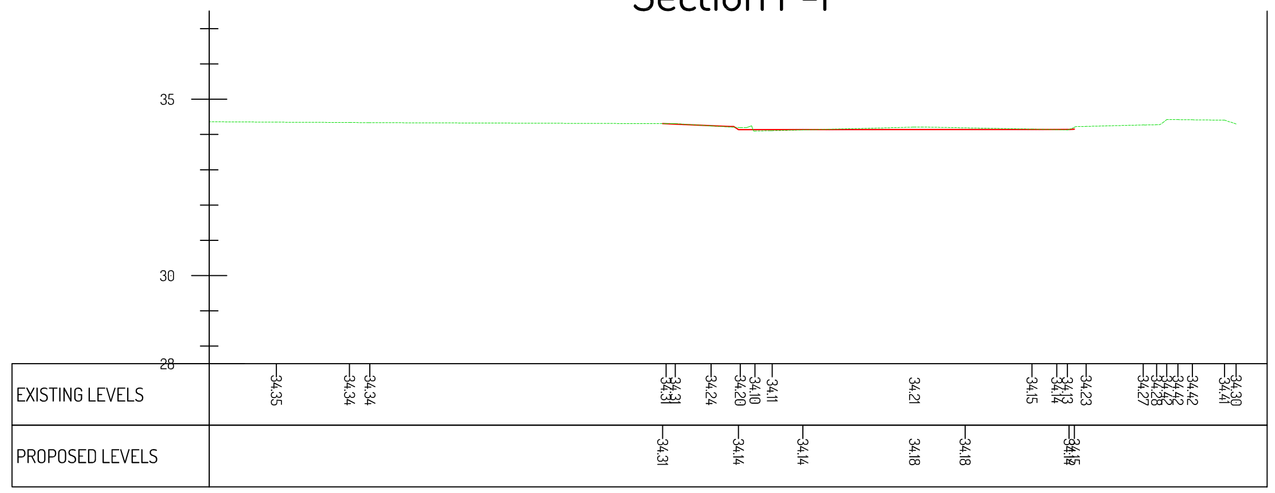
Section D-D



Section E-E



Section F-F



Key Plan:

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2. General arrangement is an adaptation of the layout drawing from Mecanoo Architects on 21/03/15

Notes Continued:

- - - - - Existing Ground

——— Proposed Ground

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
05/08/16	---	DRAFT	--	--

Project:
Leaf Street

Title:
Clarendon Street
Highways Sections
(Sheet 2 of 3)

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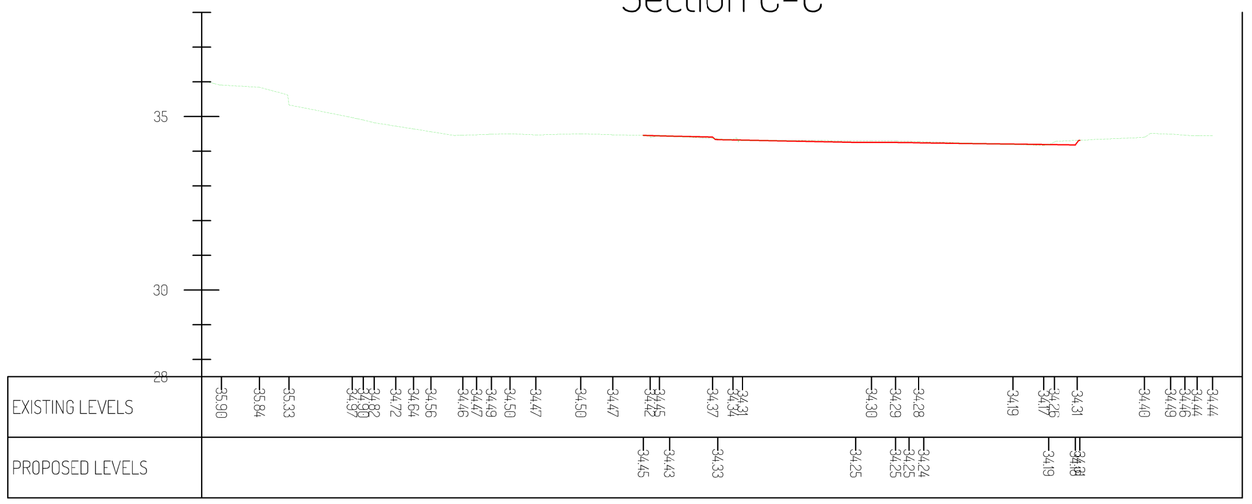
Scale:	Date:	Drawn:	Checked:
1:125@A1 1:250@A3	July-16	PC	--

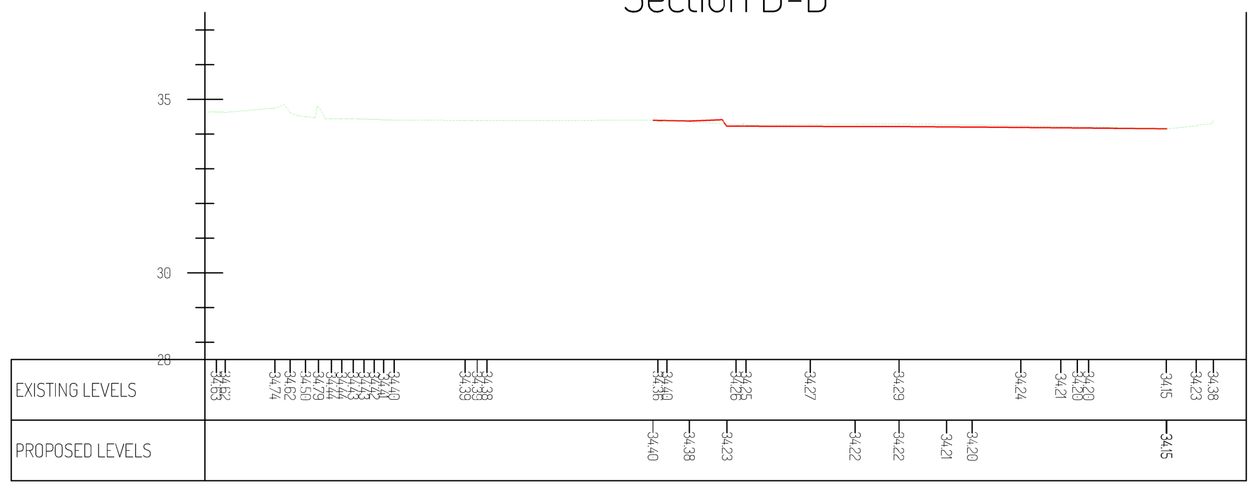
Job Number:	Drawing Number:	Revision:
605/02	SE-2126	--

Keepmoat - STATUS A CONSTRUCTION

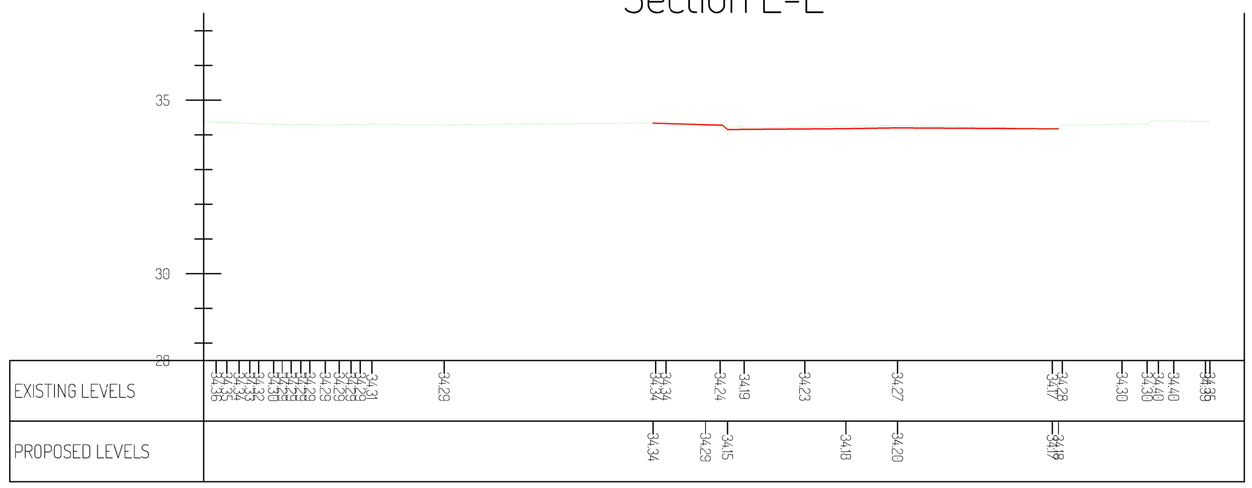
Section C-C



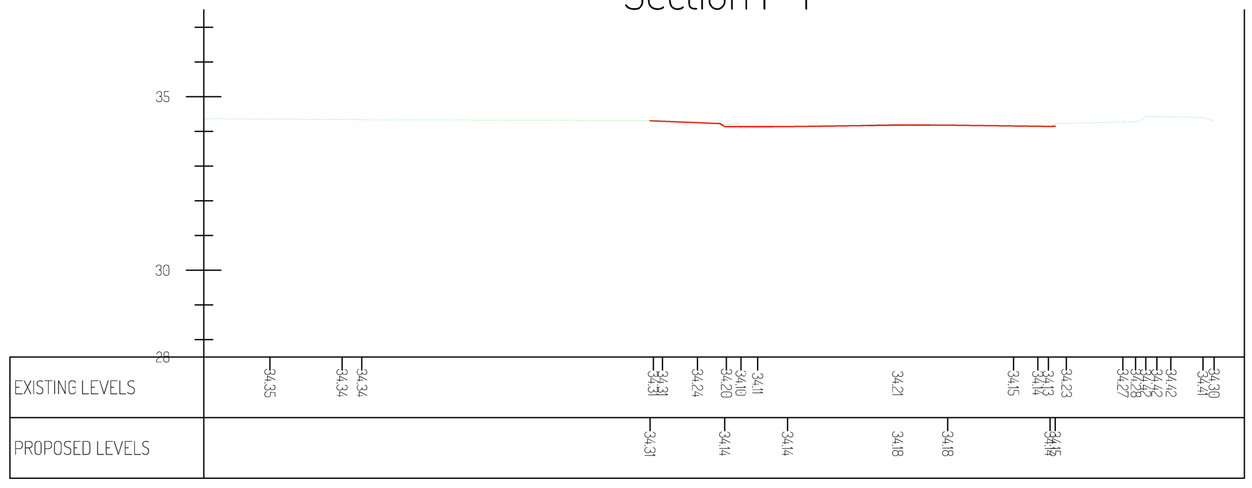
Section D-D



Section E-E



Section F-F



Key Plan:

Notes:

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Notes Continued:

1. Existing Levels are based on topographical survey received from Keepmoat on 16/03/15
2. General arrangement is an adaptation of the layout drawing from Mecanoo Architects on 21/03/15

Notes Continued:

- - - - - Existing Ground

——— Proposed Ground

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
21/11/16	P01	Issued for Information	PC	PM

Project: Leaf Street

Title: Clarendon Street
Highways Sections
(Sheet 2 of 3)

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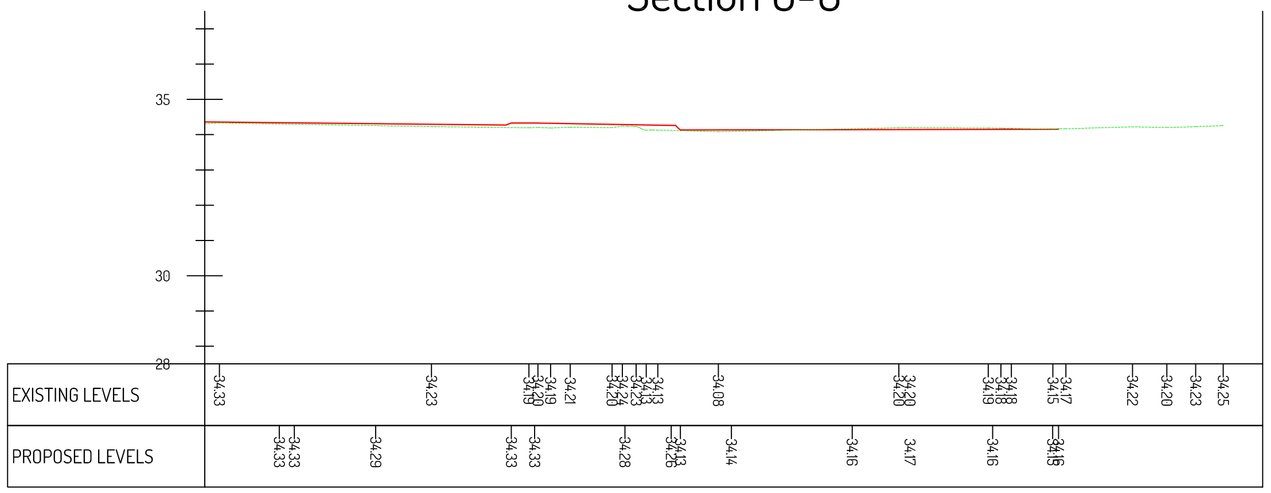
1:125@A1 1:250@A3	Nov-16	PC	PM	605/02	SE-2126	P01

Section G-G



Key Plan:

Keepmoat - STATUS A CONSTRUCTION

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Notes Continued:

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2. General arrangement is an adaptation of the layout drawing from Mecanoo Architects on 21/03/15

Notes Continued:

- - - - - Existing Ground

——— Proposed Ground

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
05/08/16	---	DRAFT	--	--

Project:
Leaf Street

Title:
Clarendon Street
Highways Sections
(Sheet 3 of 3)

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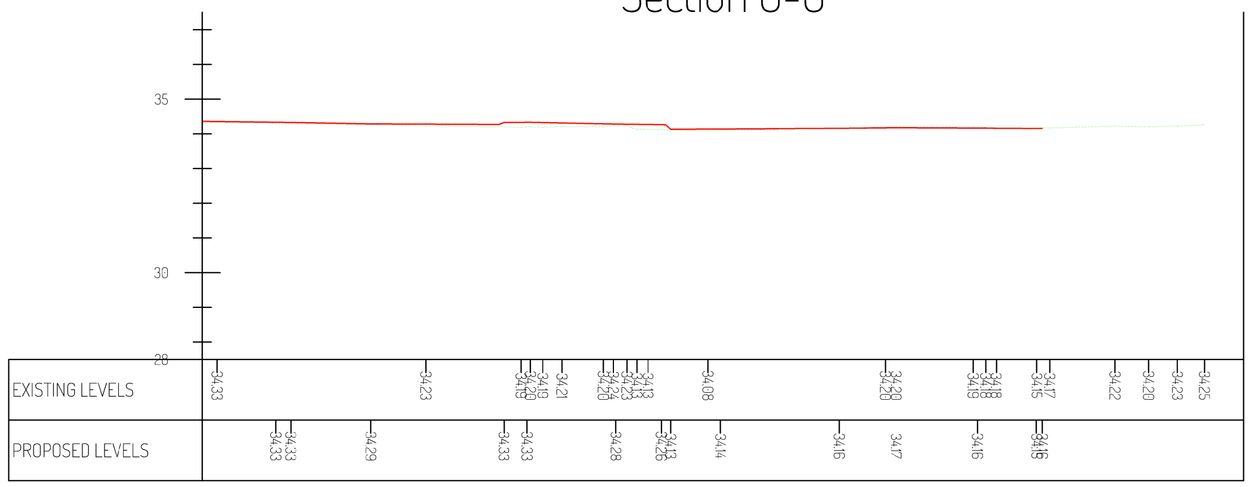
Scale:	Date:	Drawn:	Checked:
1:125@A1 1:250@A3	Aug-16	PC	--

Job Number:	Drawing Number:	Revision:
605/02	SE-2127	--

Section G-G



Key Plan:

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Notes Continued:

1. Existing Levels are based on topographical survey received from Keepmoat on 16/03/15
2. General arrangement is an adaptation of the layout drawing from Mecanoo Architects on 21/03/15

Notes Continued:

- - - - - Existing Ground

——— Proposed Ground

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
02/02/17	P01	Issued for Information	PC	PM

Project:
Leaf Street

Title:
Clarendon Street
Highways Sections
(Sheet 3 of 3)

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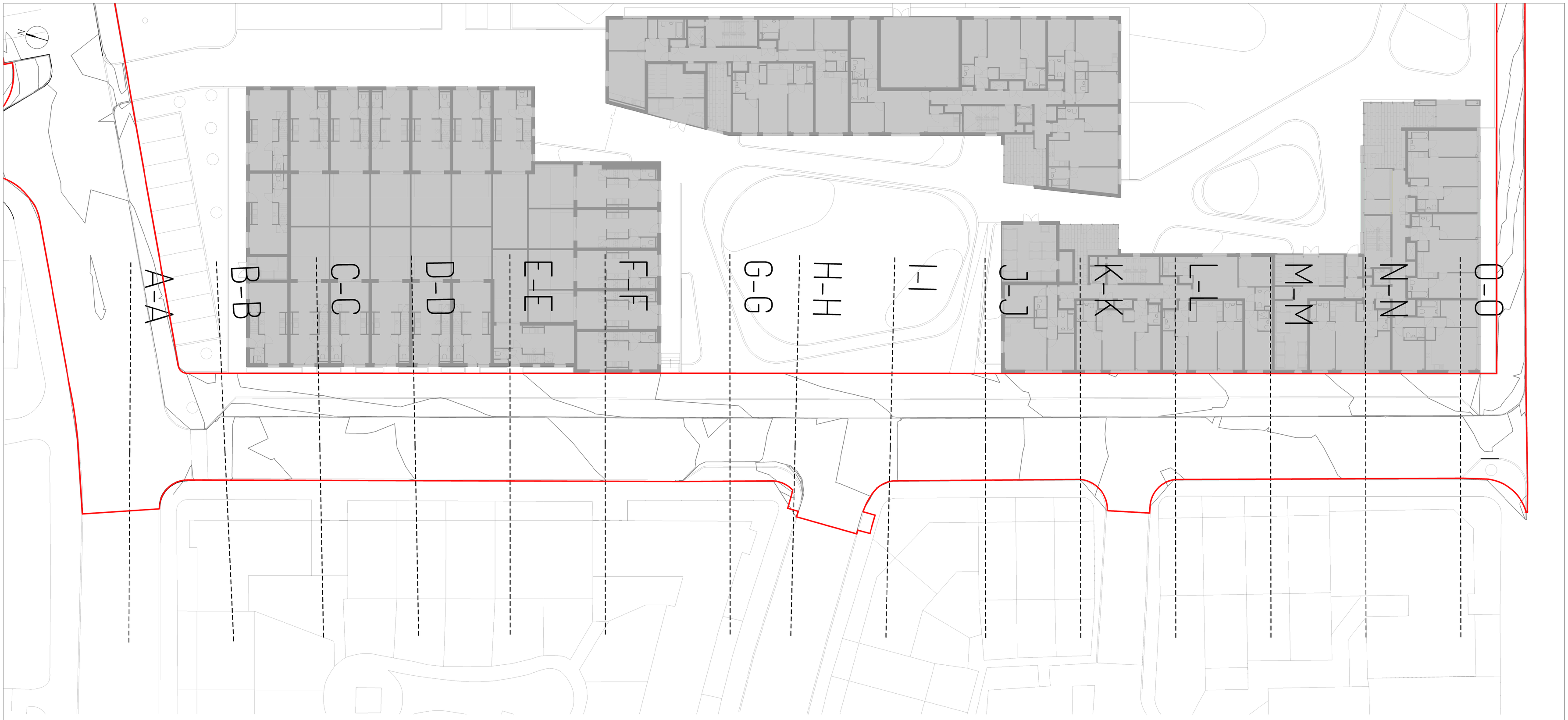
Scale:	Date:	Drawn:	Checked:	Job Number:	Drawing Number:	Revision:
1:125@A1 1:250@A3	Feb-17	PC	PM	605/02	SE-2127	P01



	Notes:	Notes Continued:	Key	Notes Continued:
	This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and the specification. This drawing should not be scaled. All dimensions are to be verified by the contractor on site. All discrepancies should be reported to the C.A. prior to the commencement of the works. © CIVIC ENGINEERS	1. Existing Levels are based on topographical survey received from Keepmoat on 16/03/15 2. General arrangement is an adaptation of the layout drawing from Mecanoo Architects on 21/03/15	- Existing Ground - Proposed Ground - Extents of Highways Works	

Date:	Rev:	Description:	Drawn:	Chkd:
02/02/17	P01	Issued for Information	PC	PM

Project: Leaf Street

Title: Leaf Street Highways Sections (Sheet 1 of 5)

Scale:	Date:	Drawn:	Checked:
1:200@A1 1:400@A3	Feb-17	PC	PM

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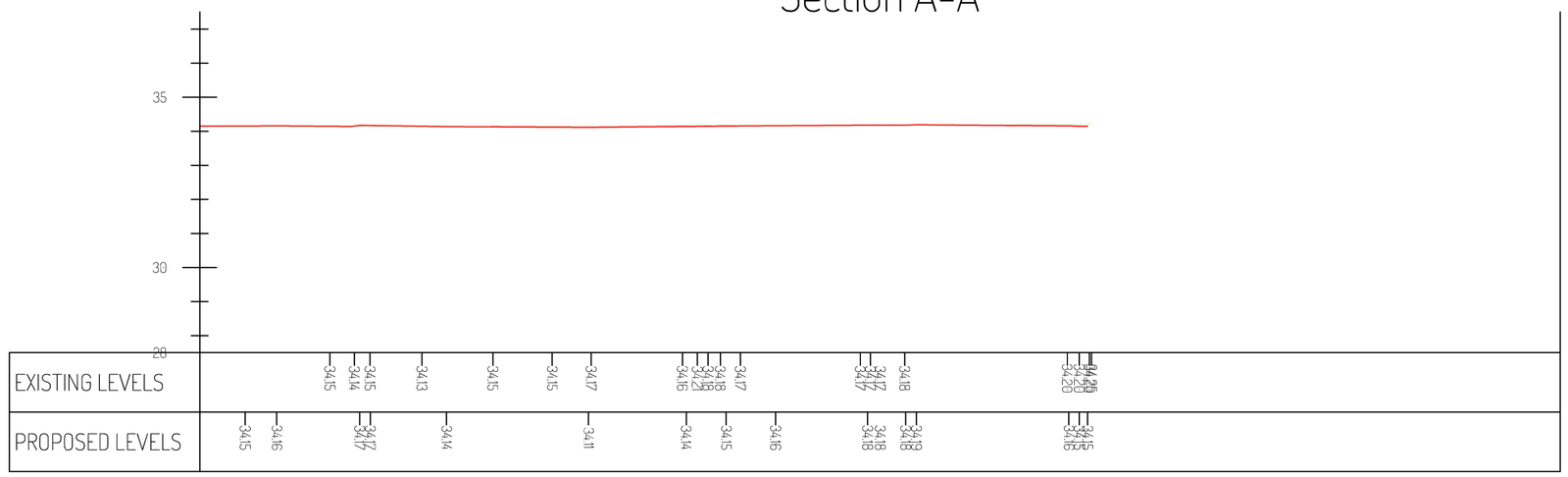
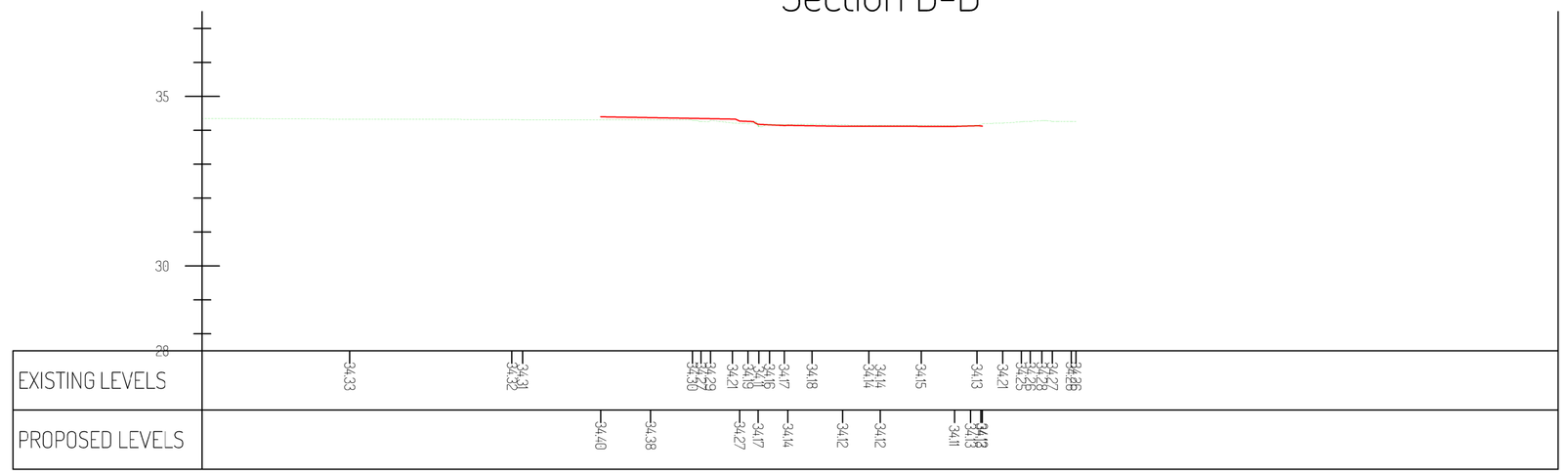
Job Number:	Drawing Number:	Revision:
605/02	SE-2130	P01

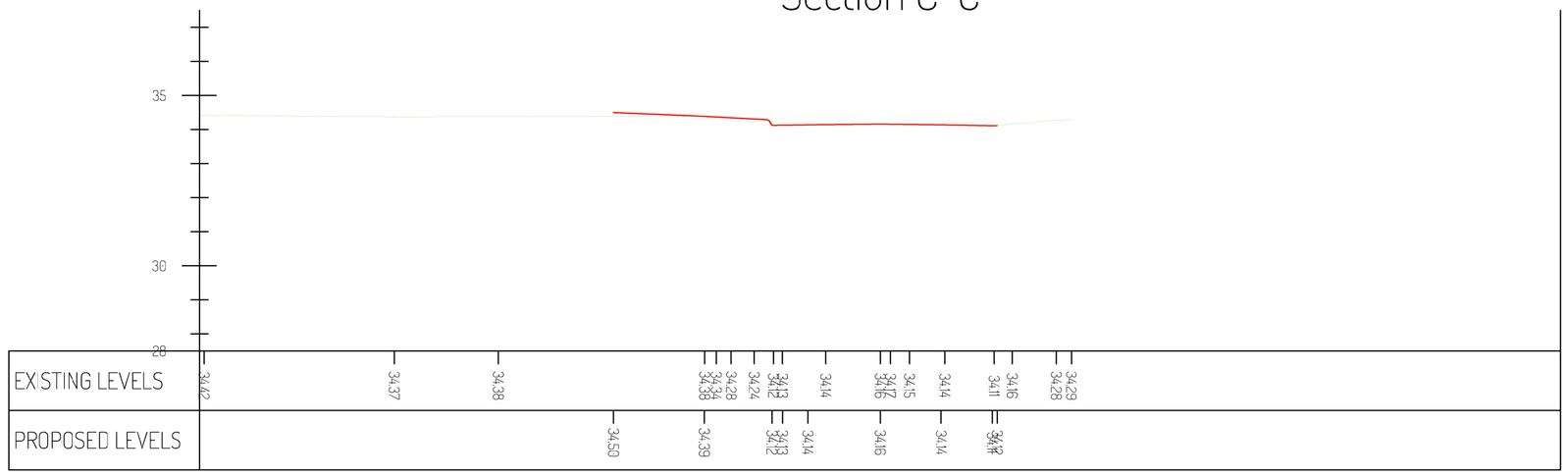
Section A-A



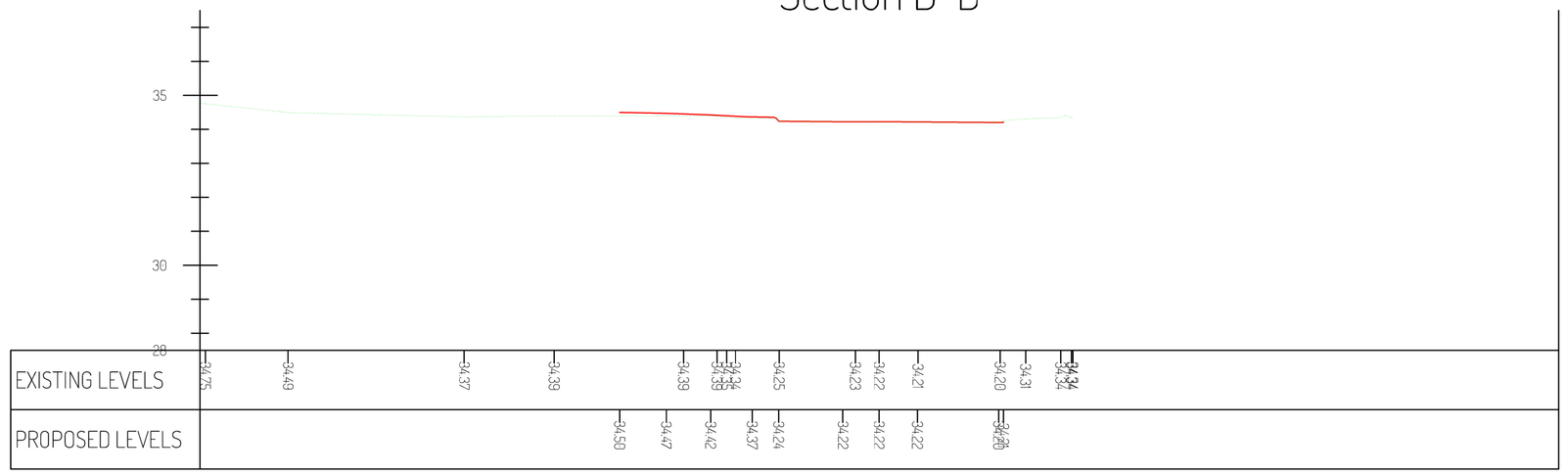
Section B-B



Section C-C



Section D-D



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Key

- - - - - Existing Ground

——— Proposed Ground

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
21/11/16	P01	Issued for Information	PC	PM

Project: Leaf Street

Title: Leaf Street
Highways Sections
(Sheet 2 of 5)

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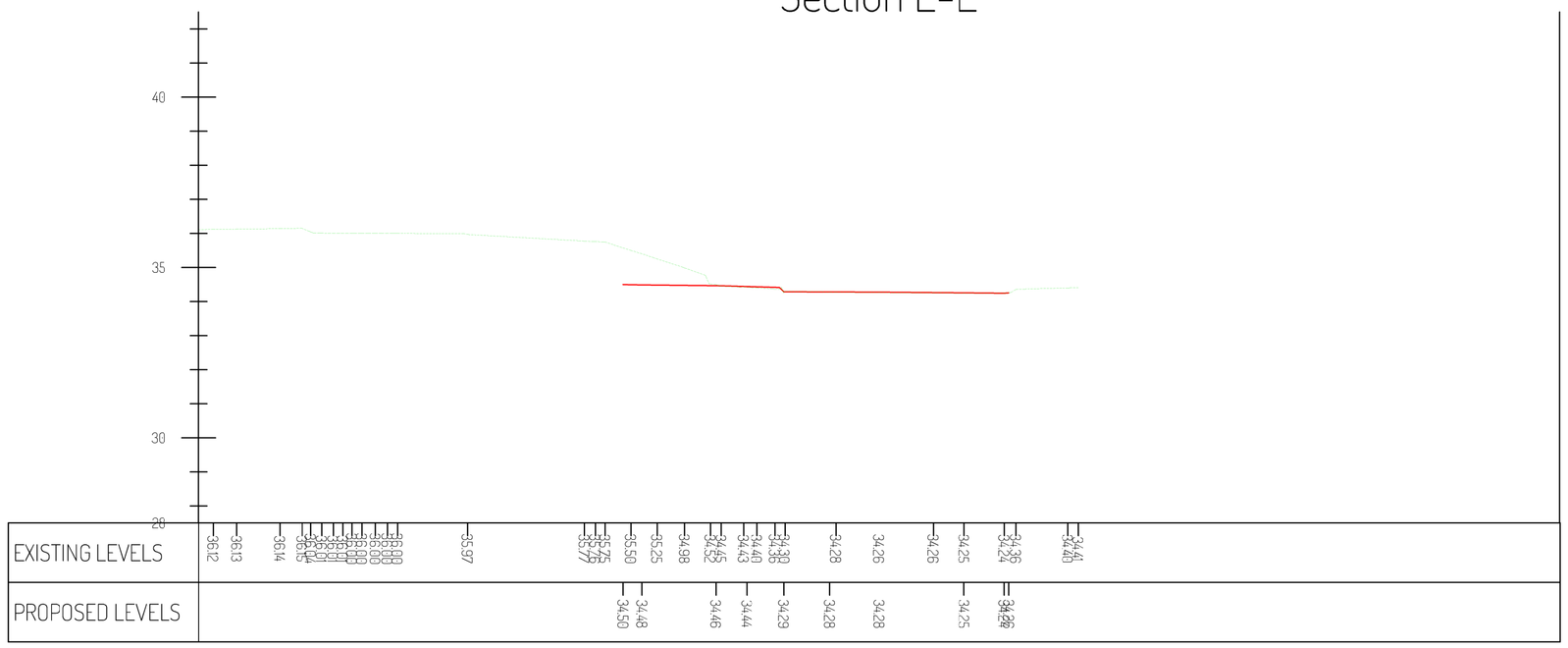
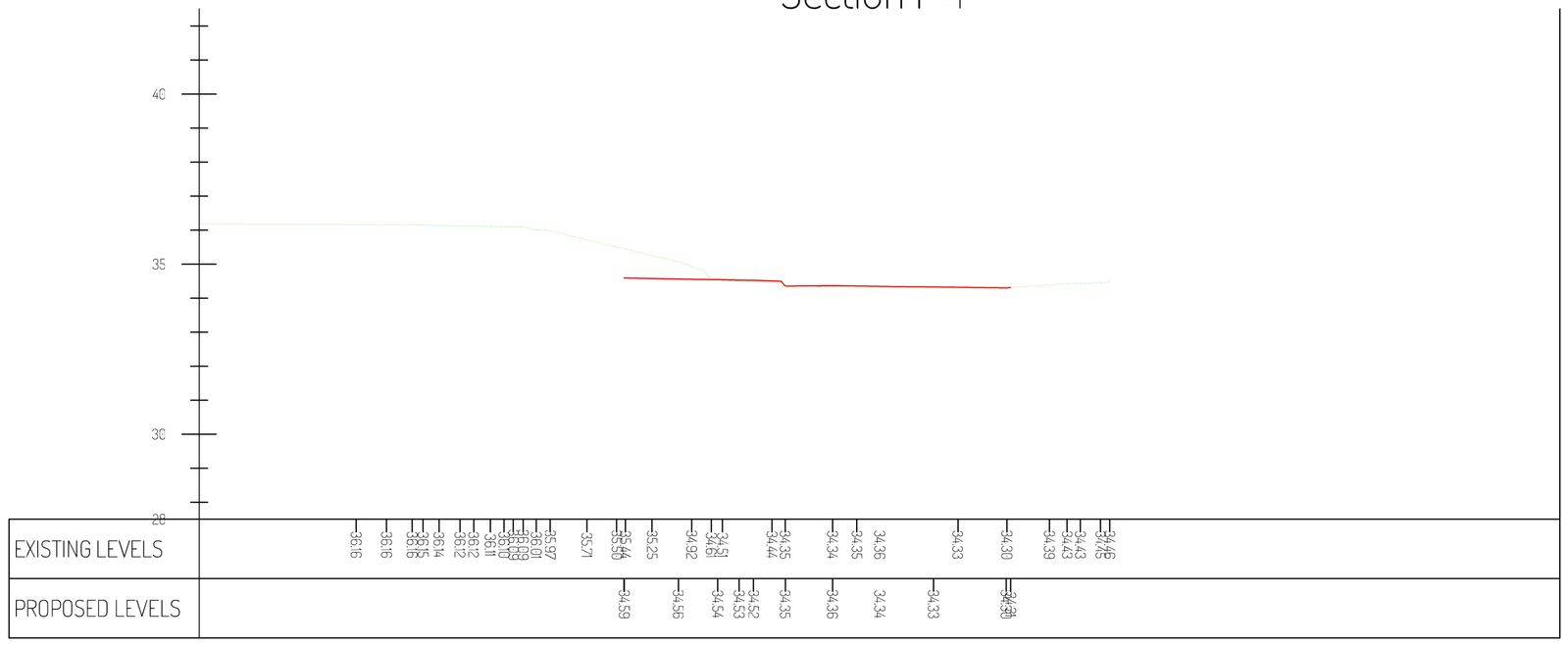
Scale:	Date:	Drawn:	Checked:	Job Number:	Drawing Number:	Revision:
1:125@A1 1:250@A3	Nov-16	PC	PM	605/02	SE-2131	P01

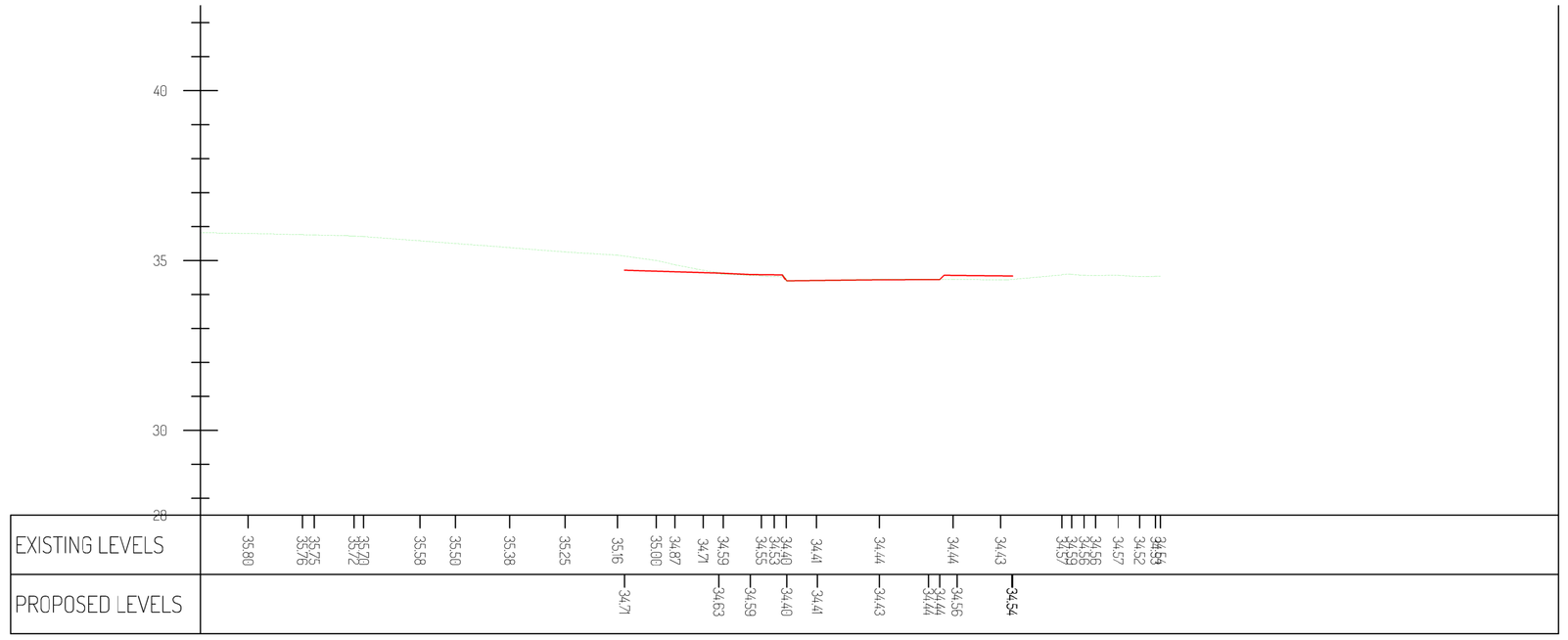
Section E-E



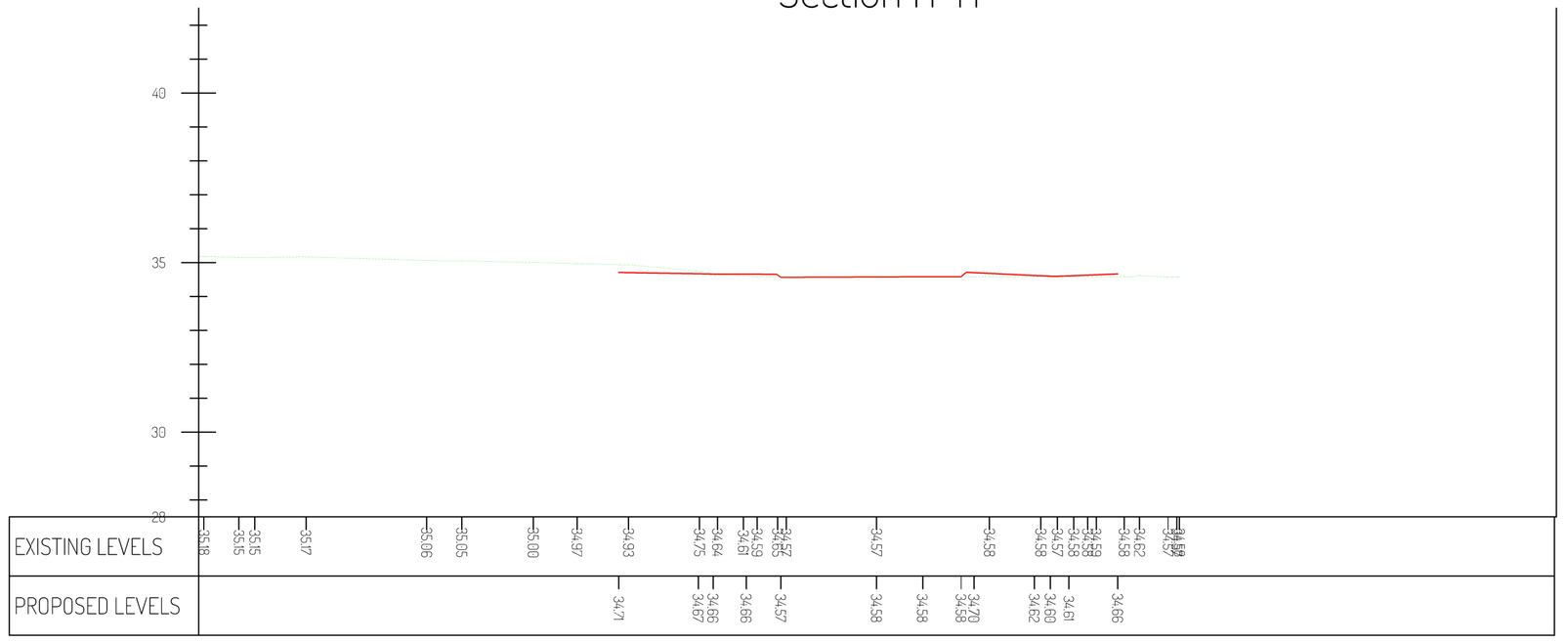
Section F-F



Section G-G



Section H-H



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Key

- Existing Ground
- Proposed Ground

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
02/02/17	P01	Issued for Information	PC	PM

Project: Leaf Street

Title: Leaf Street
Highways Sections
(Sheet 3 of 5)

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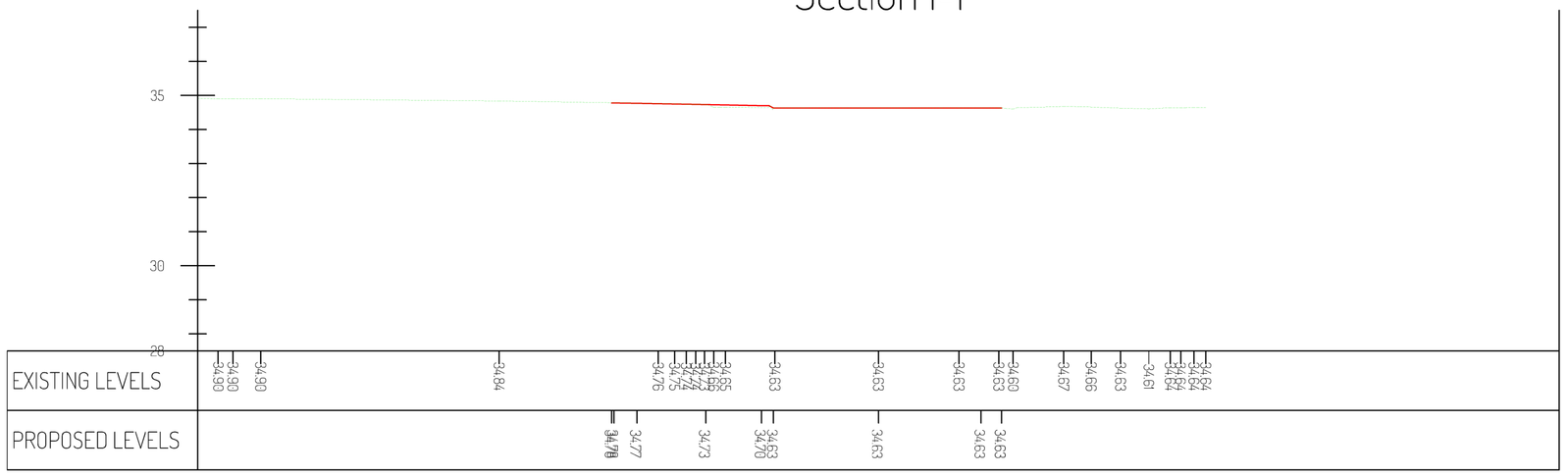
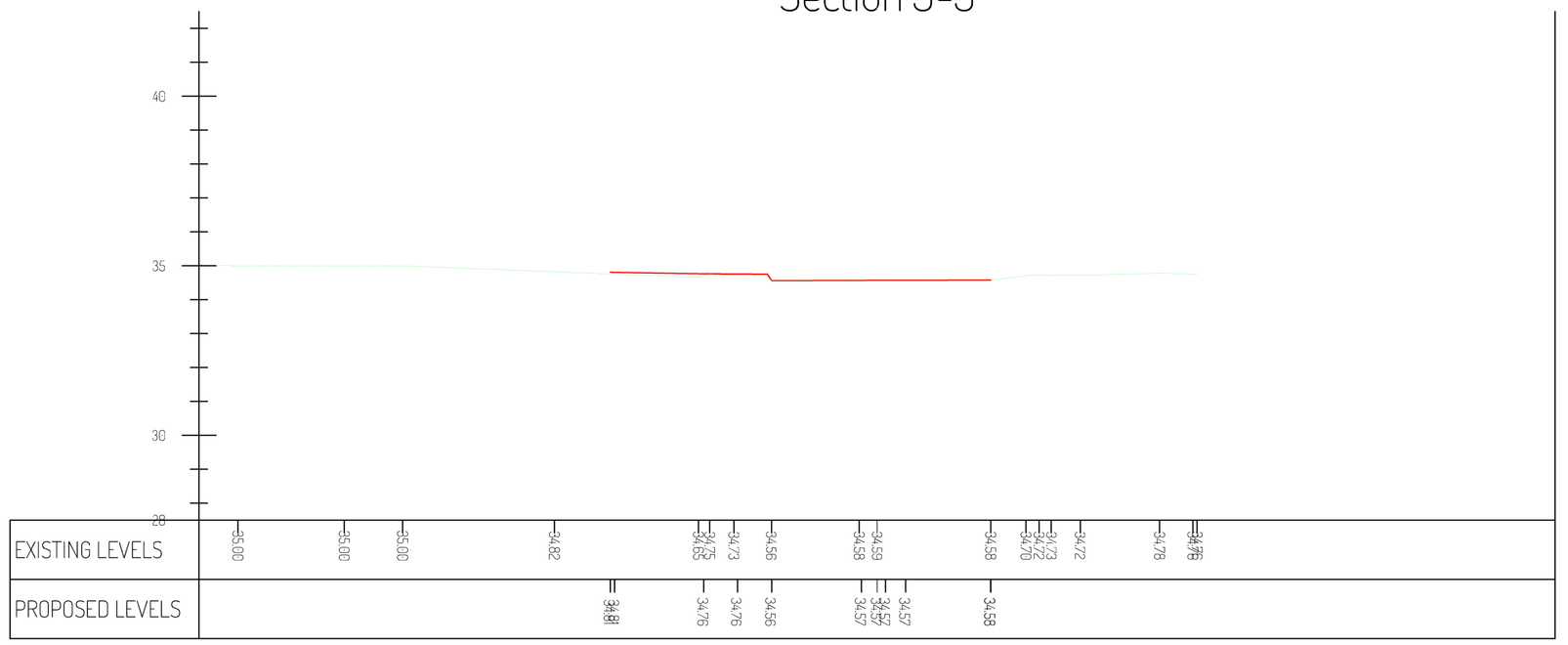
Scale:	Date:	Drawn:	Checked:	Job Number:	Drawing Number:	Revision:
1:125@A1 1:250@A3	Feb-17	PC	PM	605/02	SE-2132	P01

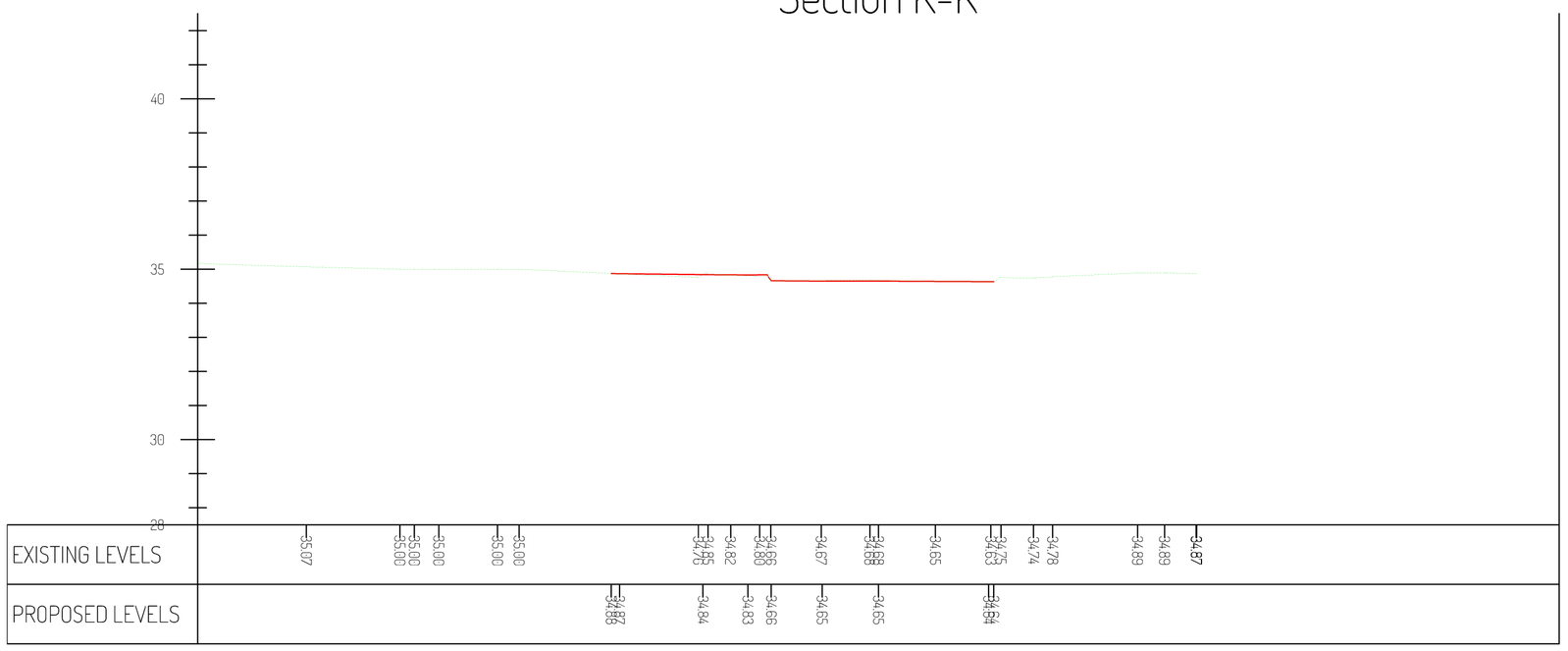
Section I-I



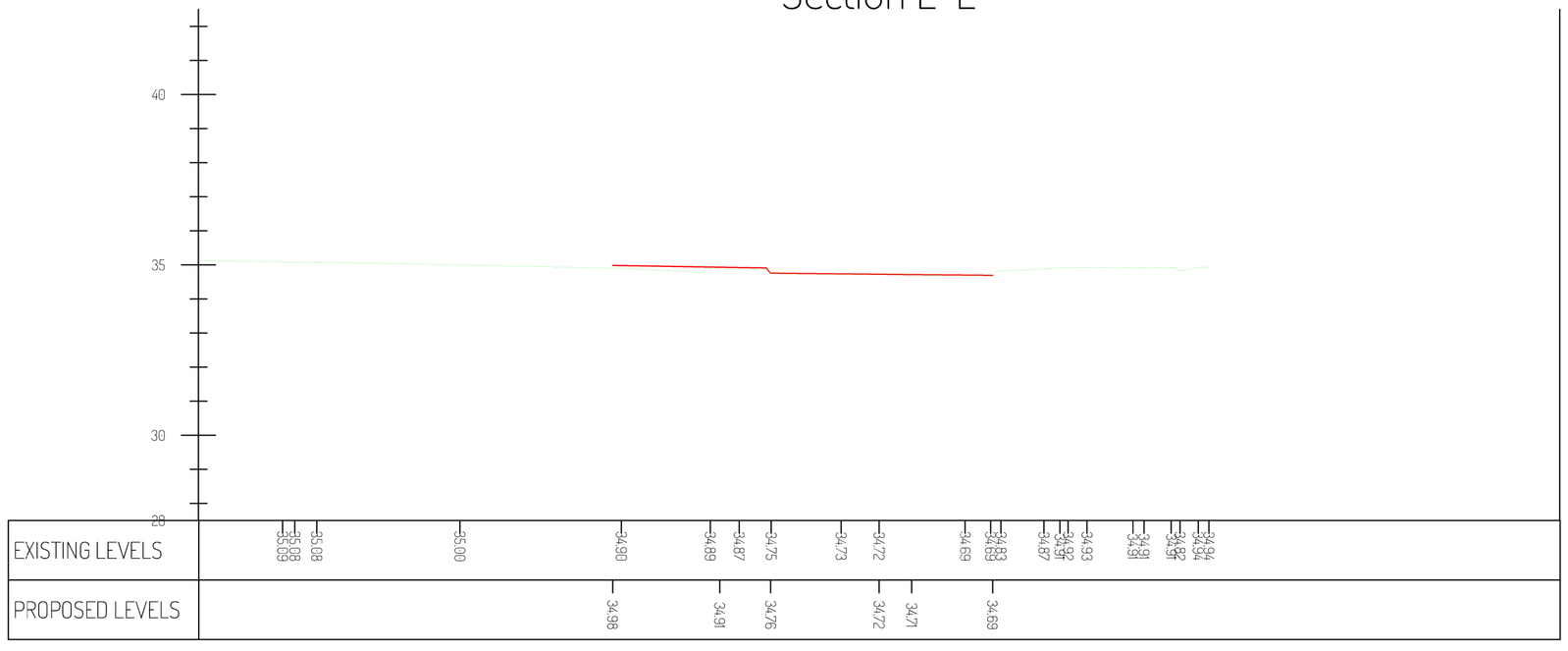
Section J-J



Section K-K



Section L-L



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Notes Continued:

1. Existing Levels are based on topographical survey received from Keepmoat on 16/03/15
2. General arrangement is an adaptation of the layout drawing from Mecanoo Architects on 21/03/15

Key

- - - - Existing Ground
——— Proposed Ground

Notes Continued:

Date:	Rev:	Description:	Drawn:	Chkd:
02/02/17	P01	Issued for Information	PC	PM

Project: Leaf Street

Title: Leaf Street
Highways Sections
(Sheet 4 of 5)

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Scale:	Date:	Drawn:	Checked:	Job Number:	Drawing Number:	Revision:
1:125@A1 1:250@A3	Feb-17	PC	PM	605/02	SE-2133	P01