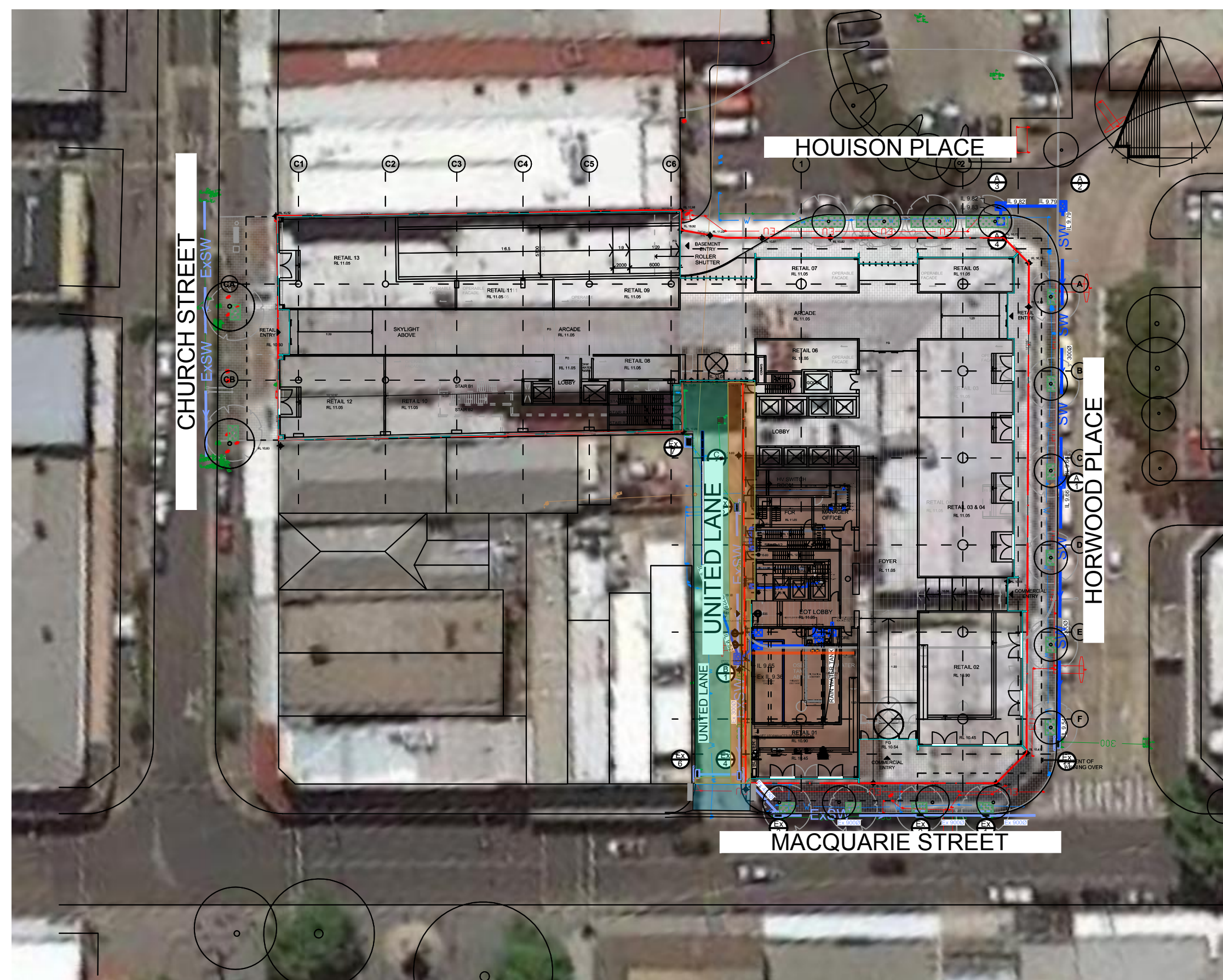


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50 MACQUARIE STREET & 220 CHURCH STREET PARRAMATTA CIVIL ENGINEERING

CIVIL ENGINEERING DRAWING LIST:

CV-0000	COVER SHEET
CV-0100	GENERAL ARRANGEMENT PLAN
CV-0101	GENERAL ARRANGEMENT PLAN SHEET 1
CV-0102	GENERAL ARRANGEMENT PLAN SHEET 2
CV-0103	GENERAL ARRANGEMENT PLAN SHEET 3
CV-0110	GENERAL ARRANGEMENT PLAN UNITED LANE PUBLIC DOMAIN
CV-0200	STORMWATER MANAGEMENT PLAN
CV-0500	DRIVEWAY PLAN, SECTIONS AND DETAILS
CV-0600	UNITED LANE PUBLIC DOMAIN LONG SECTION
CV-0620	MACQUARIE STREET LONG SECTIONS
CV-0640	HORWOOD PLACE LONG SECTIONS
CV-0660	CHURCH STREET LONG SECTIONS
CV-0680	HOUISON PLACE LONG SECTIONS
CV-0700	UNITED LANE PUBLIC DOMAIN CROSS SECTIONS
CV-0720	MACQUARIE STREET CROSS SECTIONS
CV-0740	HORWOOD PLACE CROSS SECTIONS
CV-0760	CHURCH STREET CROSS SECTIONS
CV-0780	HOUISON PLACE CROSS SECTIONS
CV-0851	STORMWATER DETAILS SHEET 01
CV-0852	STORMWATER DETAILS SHEET 02
CV-0853	STORMWATER DETAILS SHEET 03
CV-0854	STORMWATER DETAILS SHEET 04



NOTE

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Rev.	Date	Description
01	08/04/18	FOR DEVELOPMENT APPLICATION
02	20/07/18	REVISED FOR DEVELOPMENT APPLICATION
03	01/08/18	REVISED FOR DEVELOPMENT APPLICATION
04	07/08/18	REVISED FOR DEVELOPMENT APPLICATION

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DRIVAS PROPERTY GROUP

ARCHITECT

CRONE ARCHITECTS

level 2, 364 Kent street,
Sydney, NSW, 2000

PROJECT NAME

50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475

DRAWING TITLE

COVER SHEET

SCALE: 1:500@A1

DRAWN BY: MM

CHECKED BY: G-EJ

DRAWING STATUS

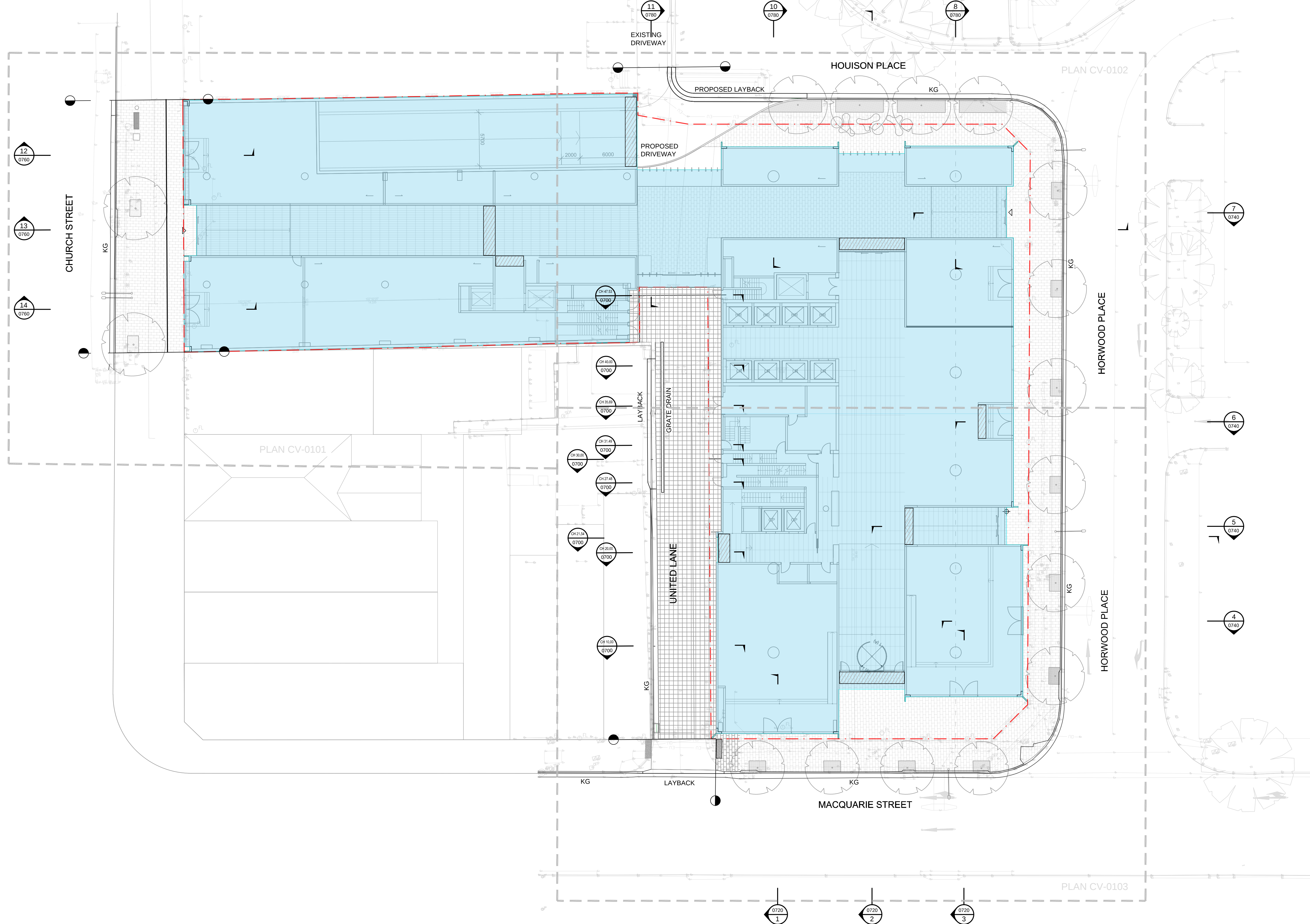
FOR APPROVAL

DRAWING NUMBER

CV-0000

REV.

04

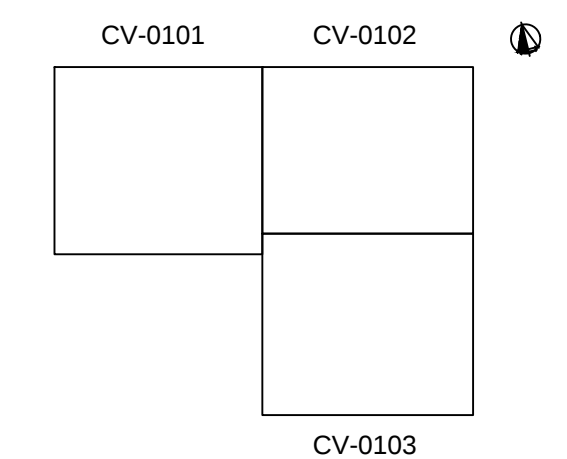


SITE PLAN
SCALE 1:200

LEGEND

- PROPERTY LINE
- KERB AND GUTTER (KG)
- BUILDING AREA
- PROPOSED TREE PIT
- NEW SHARED ZONE
- NEW FOOTPATH
- FLOOD GATE
- EXTENTS OF WORK
- PROPOSED CROSS SECTION

KEY PLAN



NOTE
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Sydney, NSW, 2000

PROJECT NAME
50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475
DRAWING TITLE
GENERAL ARRANGEMENT
PLAN

SCALE: 1:200@A1
DRAWN BY: JF
CHECKED BY: Q-EJ
DRAWING STATUS
FOR APPROVAL

DRAWING NUMBER
CV-0100
REV.
03



ALIGNMENTS

—57.0— PROPOSED CONTOUR
MAJOR

56.7 PROPOSED CONTOUR
MINOR

25% GRADIENT FALL

RL 21.31 PROPOSED LEVEL
EX RL 21.30 EXISTING LEVEL

TOK 21.29
EXISTING TOP
OF KERB LEVEL

BUILDING

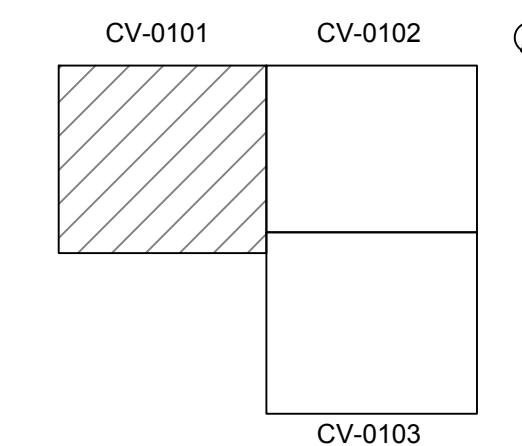
.....

NEW SHAPED ZONE

▲ 建築設計圖解 ▲

EXTENTS OF WORK

KEY PLAN



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PROJECT NAME

50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475

DRAWING TITLE

GENERAL ARRANGEMENT PLAN - SHEET 1

SCALE: 1:100@A

DRAWN BY: JF

CHECKED BY: Q-E.

DRAWING STATUS

FOR APPROVAL

DRAWING NUMBER

REV

CHURCH STREET

PROPERTY ALIGNMENT

FOOTPATH BREAKLINE ALIGNMENT

LIP OF KERB ALIGNMENT

TOK 10.37

CH 28.241

CH 26.638

CH 23.766

CH 15.676

CH 14.679

CH 9.159

CH 4.548

CH 0.000

CH 1.217

CH 0.000

CH 27.056

CH 21.078

CH 13.075

CH 13.081

CH 4.561

CH 0.000

RL 10.51

Ex RL 10.51

RL 10.45

Ex RL 10.42

RL 10.44

Ex RL 10.41

RL 10.56

Ex RL 10.53

RL 10.47

Ex RL 10.45

RL 10.57

Ex RL 10.57

1.80m FOOTPATH

2.4%

2.5%

4.0%

2.5%

4.1%

2.5%

2.9%

2.5%

5700

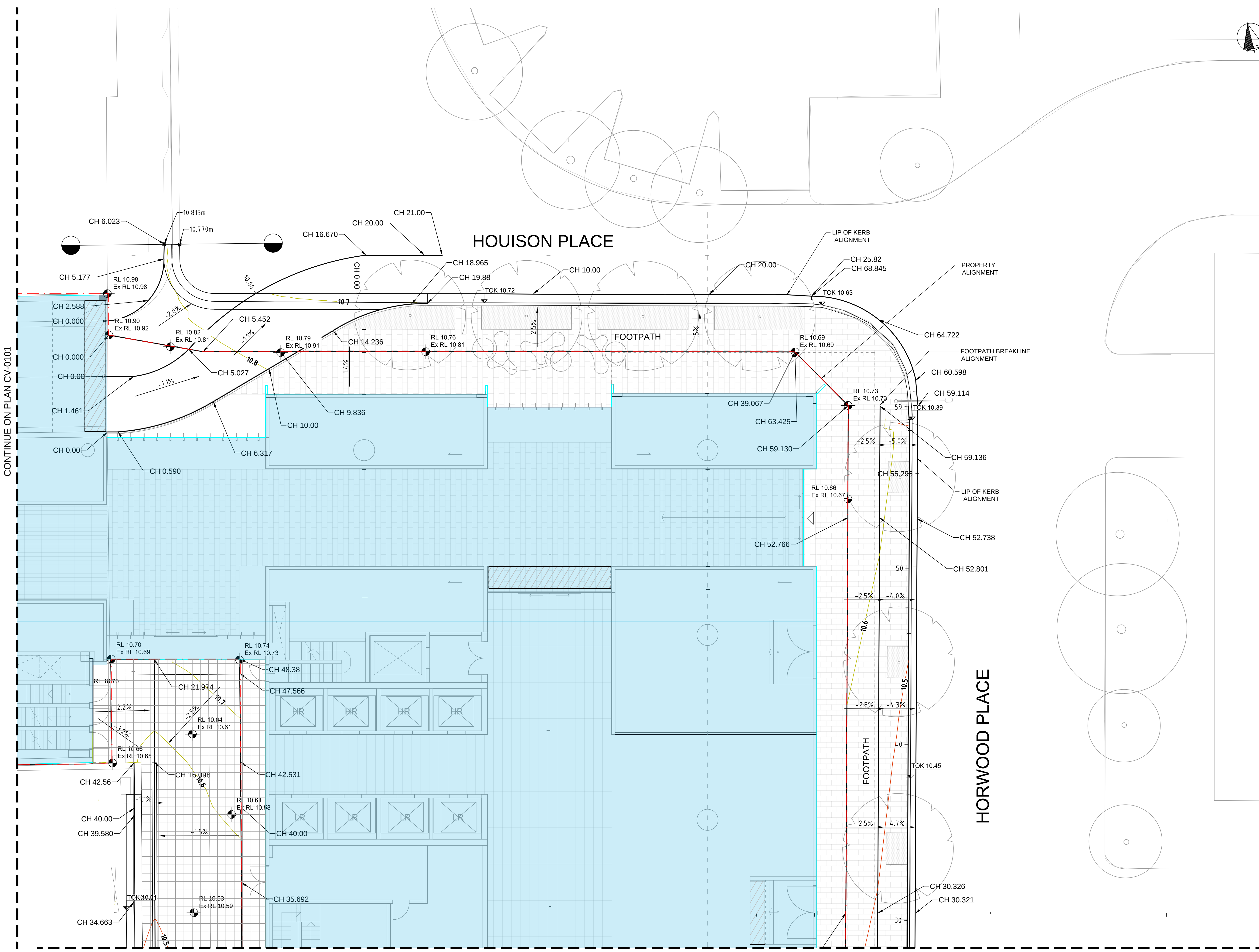
2000

600

CONTINUE ON PLAN CV-0102

GENERAL ARRANGEMENT PLAN - SHEET 1

SCALE 1:100

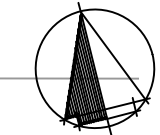


CONTINUE ON PLAN CV-0101

CONTINUE ON PLAN CV-0103

GENERAL ARRANGEMENT PLAN - SHEET 2

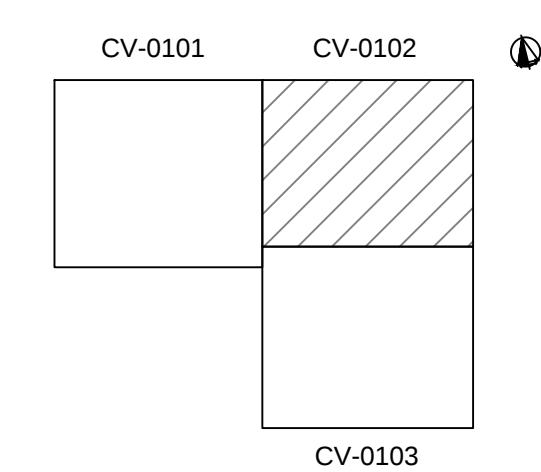
SCALE 1:100



LEGEND

- PROPERTY LINE
- ALIGNMENTS
- 57.0 PROPOSED CONTOUR MAJOR
- 56.7 PROPOSED CONTOUR MINOR
- GRADIENT FALL
- PROPOSED LEVEL EXISTING LEVEL
- EXISTING TOP OF KERB LEVEL
- BUILDING
- TREE PIT
- NEW SHARED ZONE
- NEW FOOTPATH
- FLOOD GATE
- EXTENTS OF WORK

KEY PLAN



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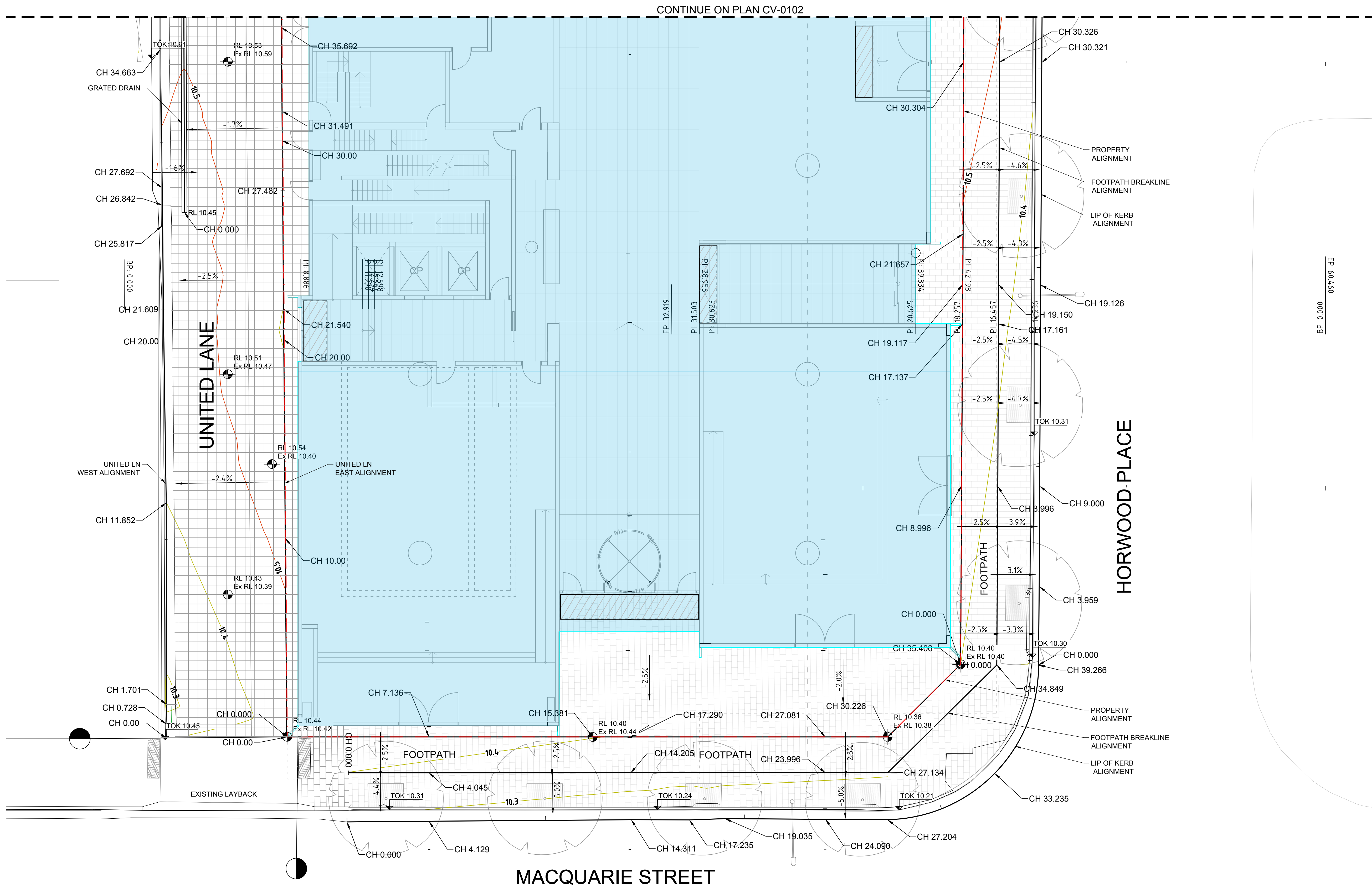
PROJECT NAME
50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475
DRAWING TITLE
GENERAL ARRANGEMENT
PLAN - SHEET 2

SCALE: 1:100@A1
DRAWN BY: JF
CHECKED BY: Q-EJ

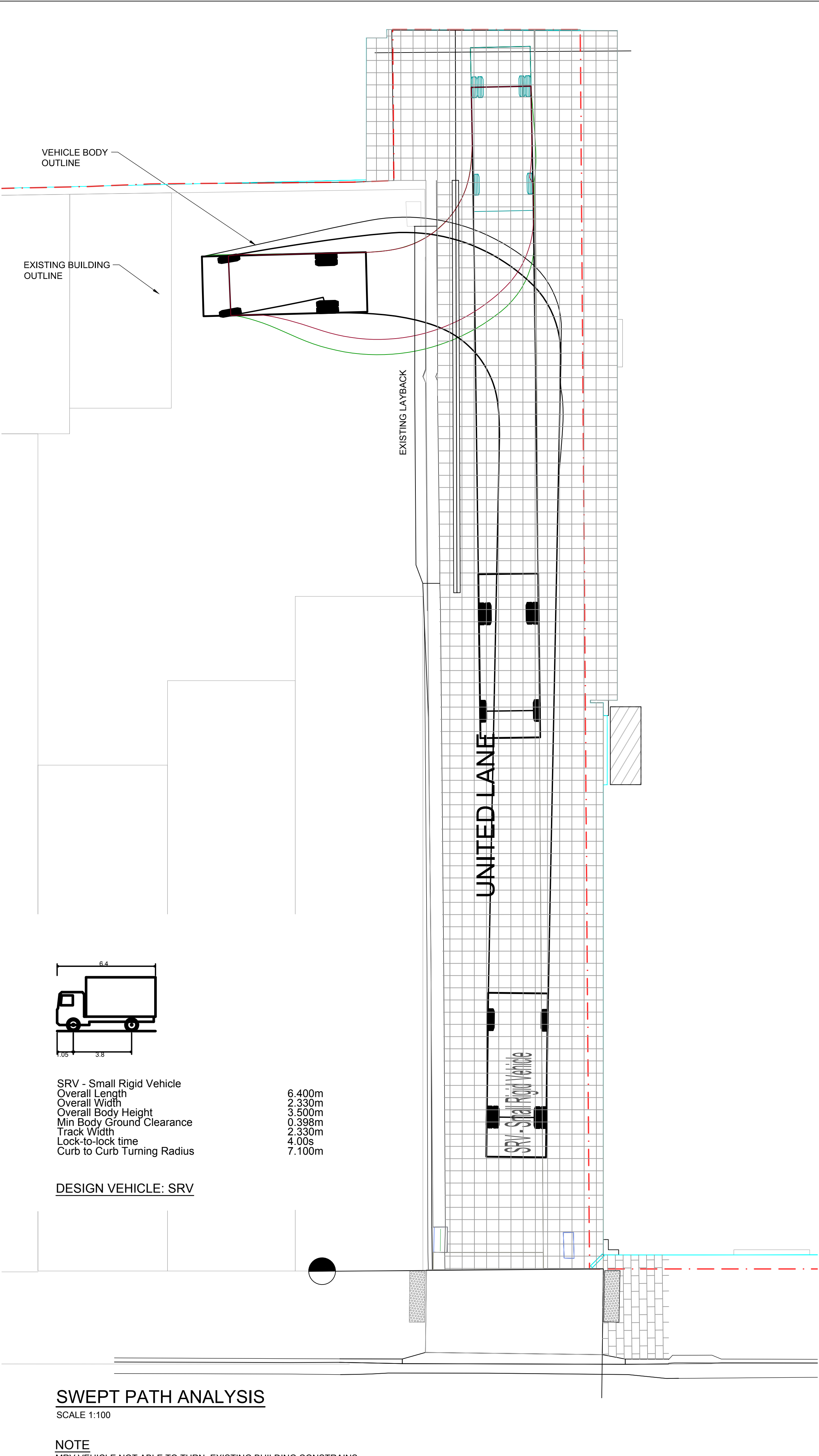
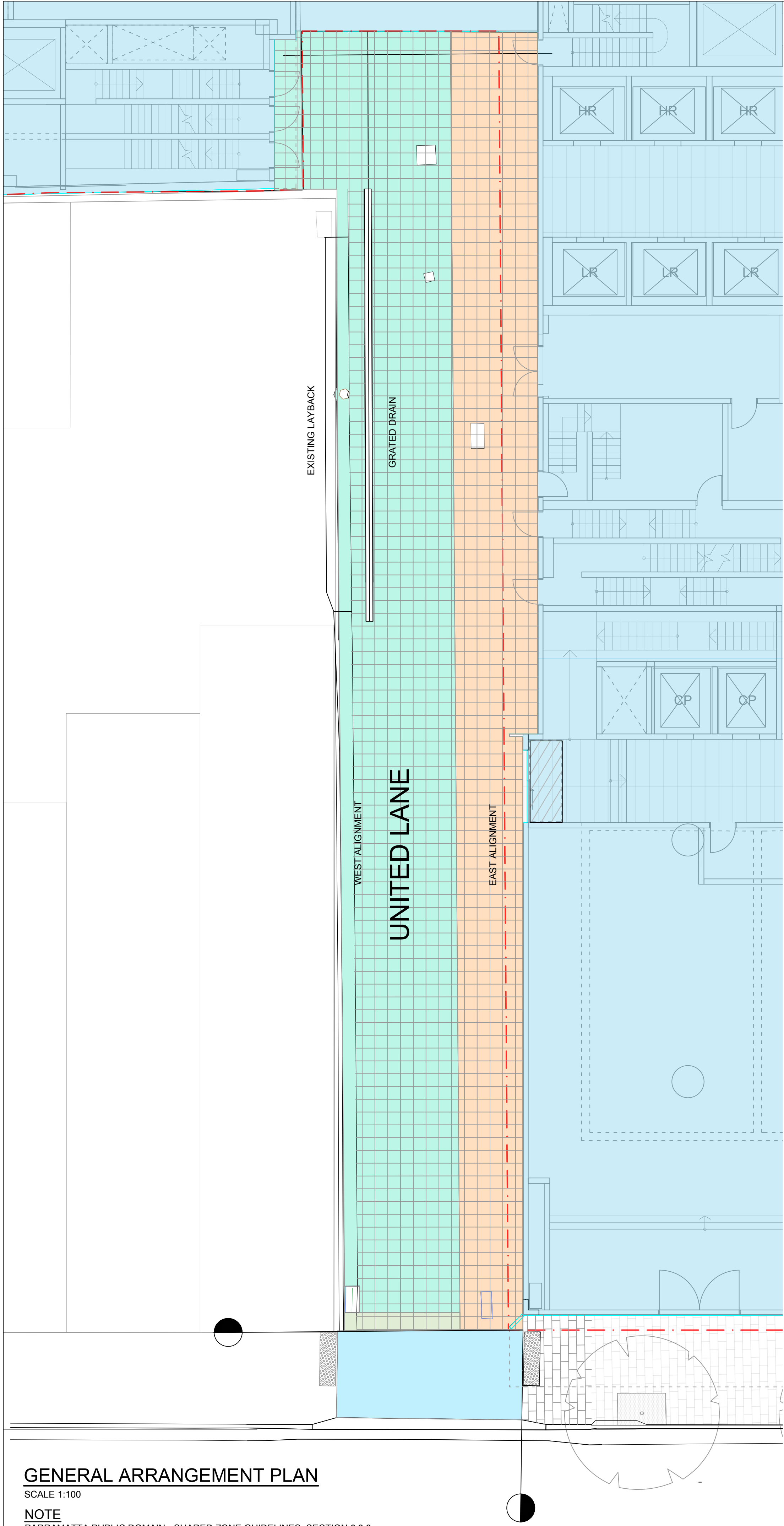
DRAWING STATUS
FOR APPROVAL

DRAWING NUMBER	REV.
CV-0102	04



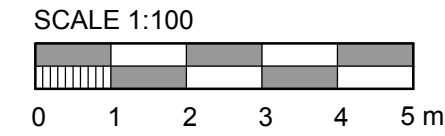
GENERAL ARRANGEMENT PLAN - SHEET 3

SCALE 1:100



LEGEND

- PROPERTY LINE
- PUBLIC DOMAIN AREA FINISH TO ARCHITECTS DETAILS
- PUBLIC DOMAIN AREA CITY CENTRE PAVING
- TRANSITION ZONE
- EXISTING DRIVEWAY CROSSING
- BUILDING
- TREE PIT
- NEW SHARED ZONE
- NEW FOOTPATH
- 57.0 PROPOSED CONTOUR MAJOR
- 56.7 PROPOSED CONTOUR MINOR
- 2.5% GRADIENT FALL



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Rev.	Date	Description
01	24/07/18	REVISED FOR DEVELOPMENT APPLICATION
02	01/08/18	REVISED FOR DEVELOPMENT APPLICATION
03	07/08/18	REVISED FOR DEVELOPMENT APPLICATION

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Sydney, NSW, 2000

PROJECT NAME
50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475

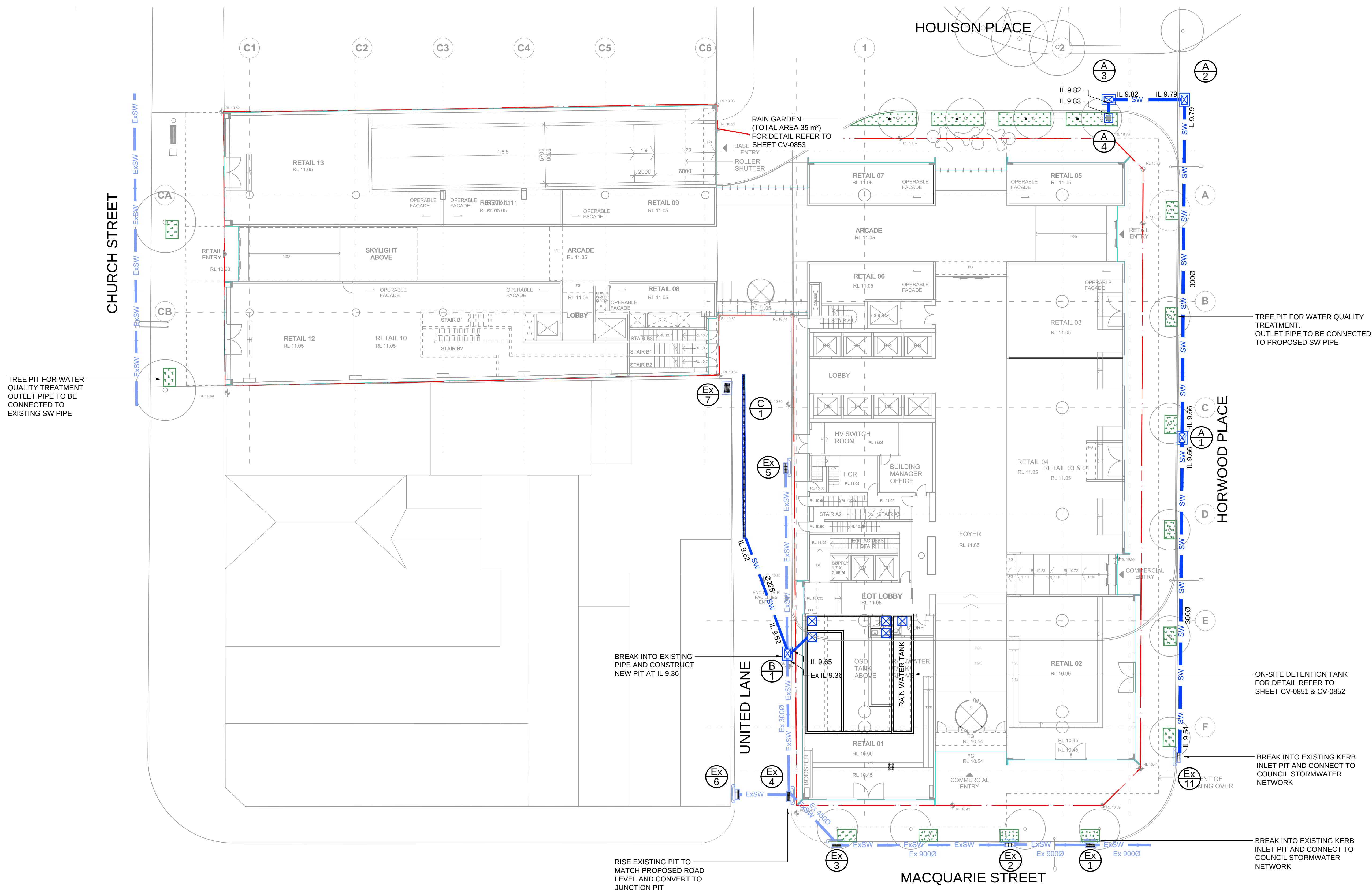
DRAWING TITLE
GENERAL ARRANGEMENT
PLAN UNITED LANE PUBLIC
DOMAIN

SCALE: 1:100@A1
DRAWN BY: JF
CHECKED BY: Q-EJ

DRAWING STATUS
FOR APPROVAL

DRAWING NUMBER
CV-0110

REV.
03



LEGEND

	PIT NAME
	PROPOSED STORMWATER LINE
	EXISTING STORMWATER LINE
	JUNCTION PIT
	PROPOSED GRATED PIT
	SEALED ACCESS PIT
	PROPOSED KERB INLET PIT
	EXISTING KERB INLET PIT
	PROPOSED RAIN GARDEN
	PROPOSED GRATED DRAIN

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03	02/08/18	REVISED FOR DEVELOPMENT APPLICATION
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PROJECT NAME

50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475

DRAWING TITLE

STORMWATER MANAGEMENT PLAN

SCALE: 1:200@A1

DRAWN BY: MM

CHECKED BY: Q-EJ

DRAWING STATUS

FOR APPROVAL

DRAWING NUMBER

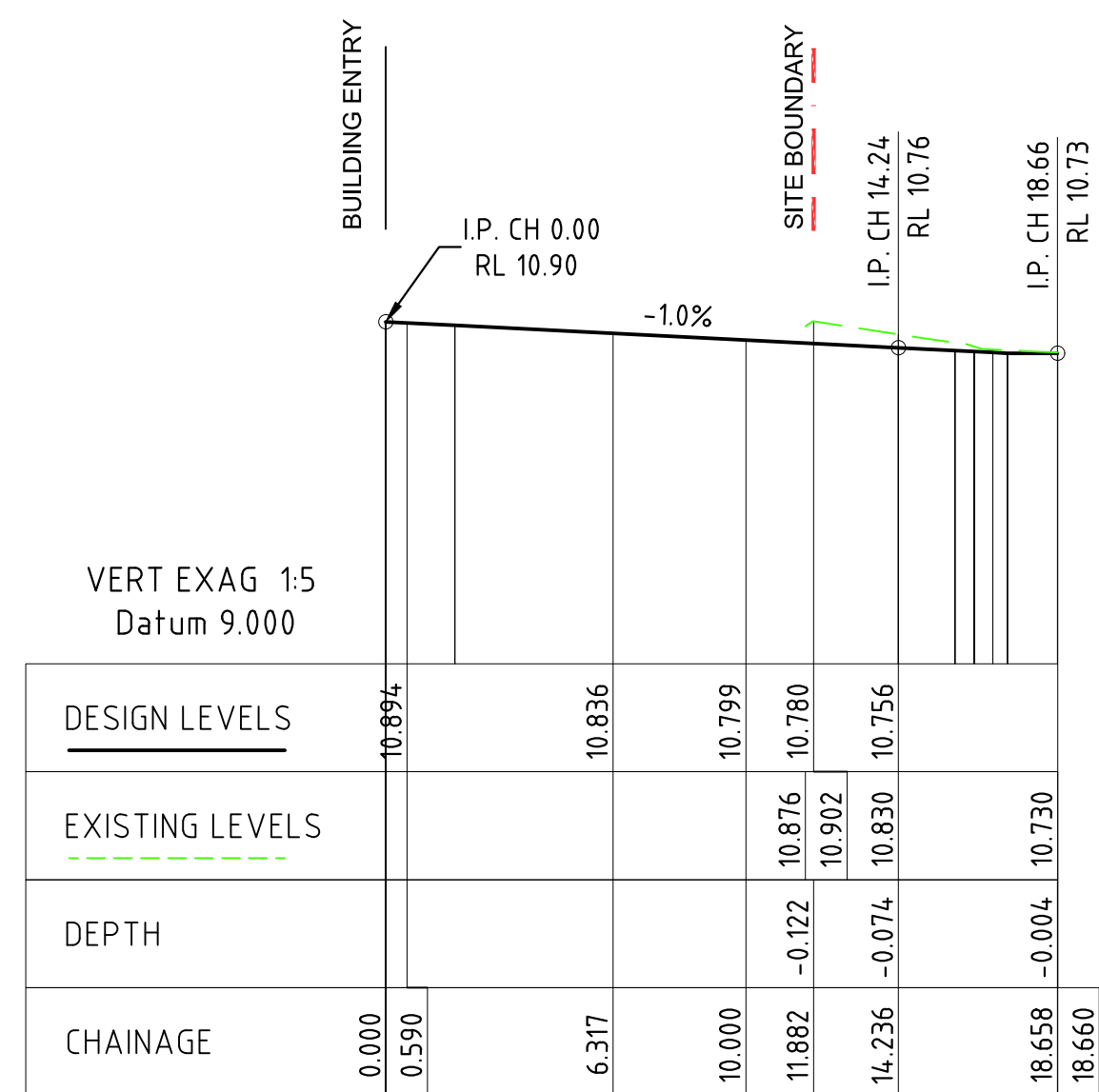
CV-0200

REV.
04

NOTE:
FOR WSUD STRATEGY
REFER TO SHEET CV-0854

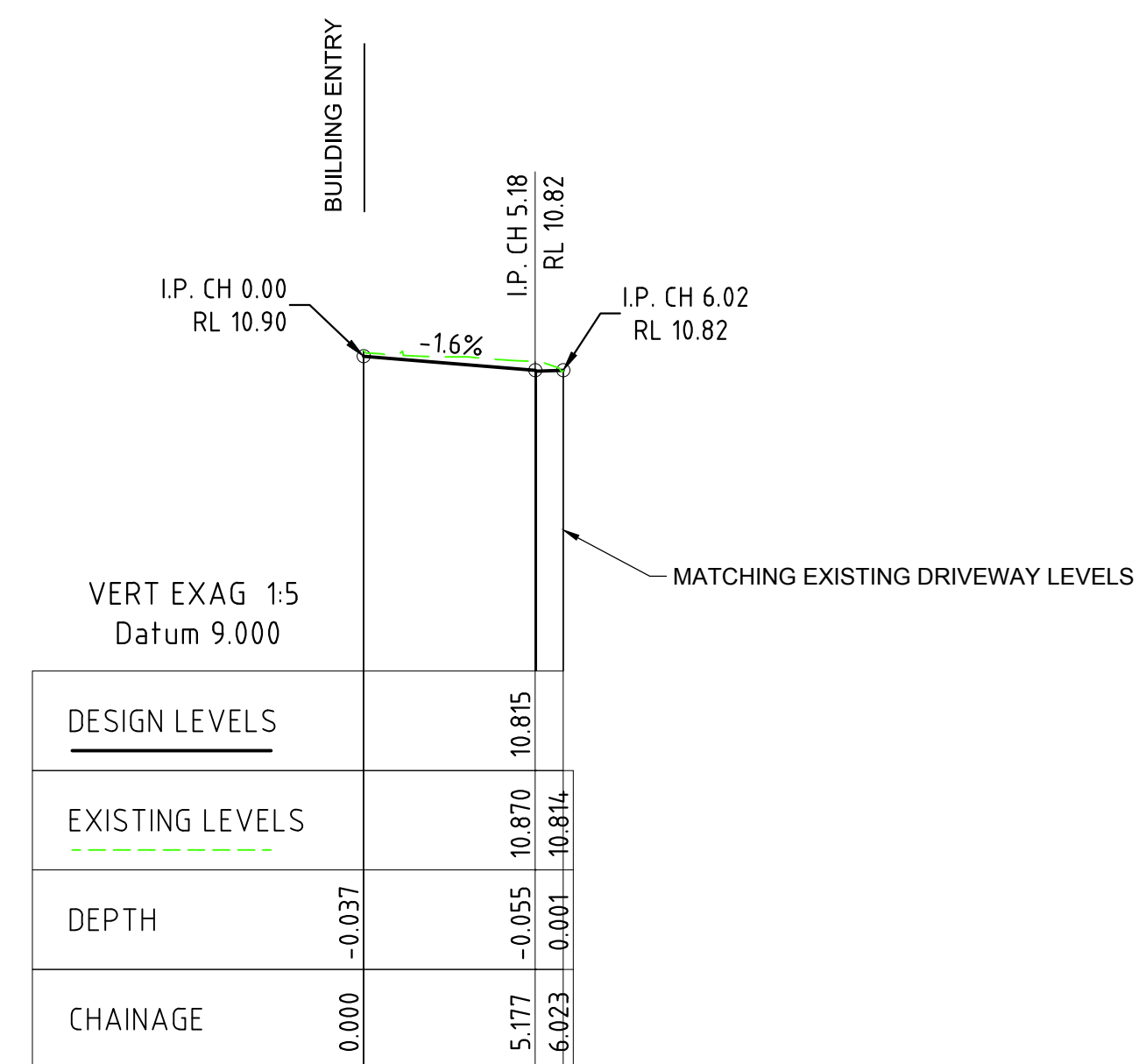
STORMWATER MANAGMENT PLAN

SCALE 1:200



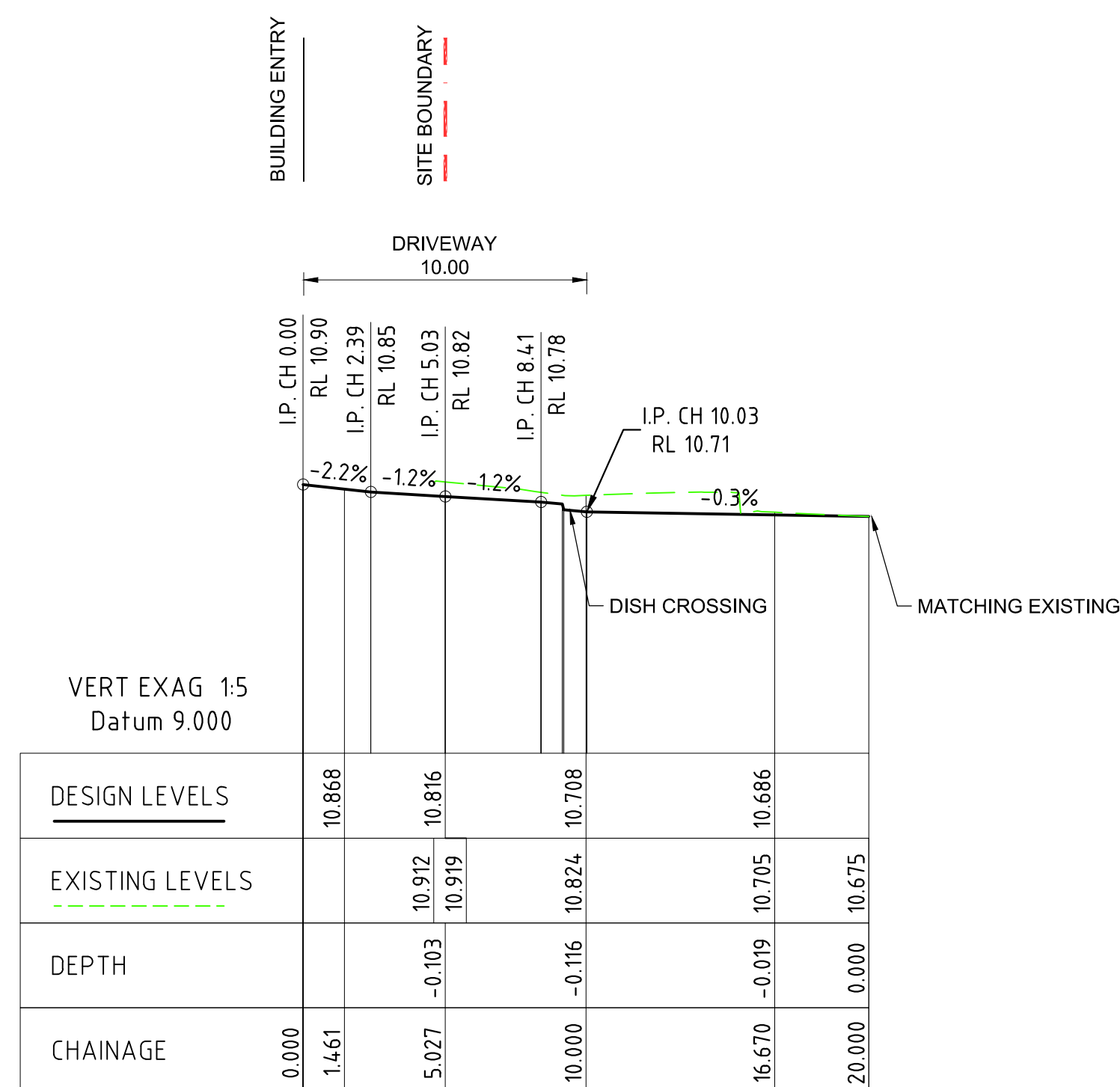
RAMP SOUTH ALIGNMENT - LONG SECTION

SCALE 1:200



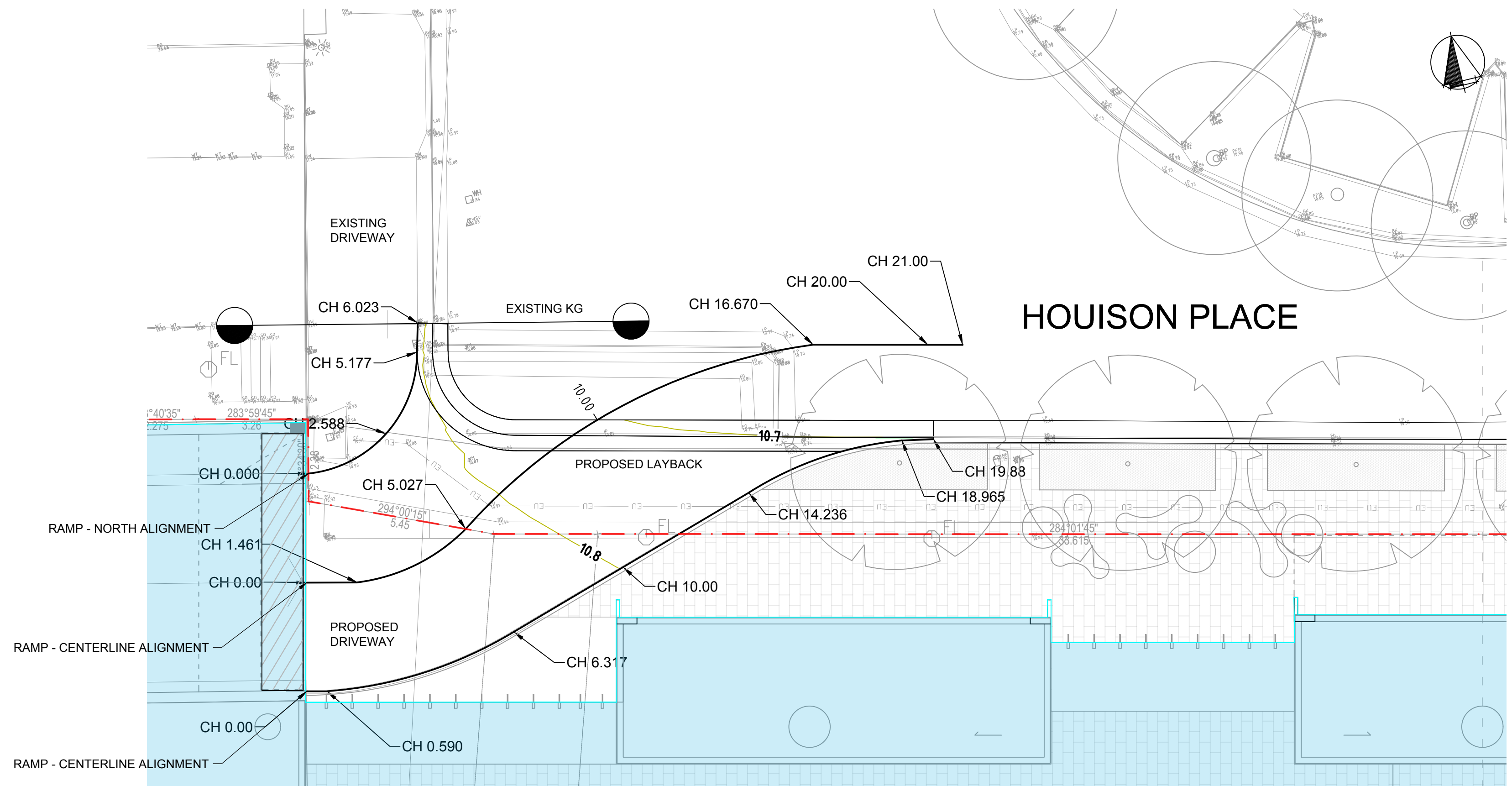
RAMP NORTH ALIGNMENT - LONG SECTION

SCALE 1:200



RAMP CENTERLINE ALIGNMENT - LONG SECTION

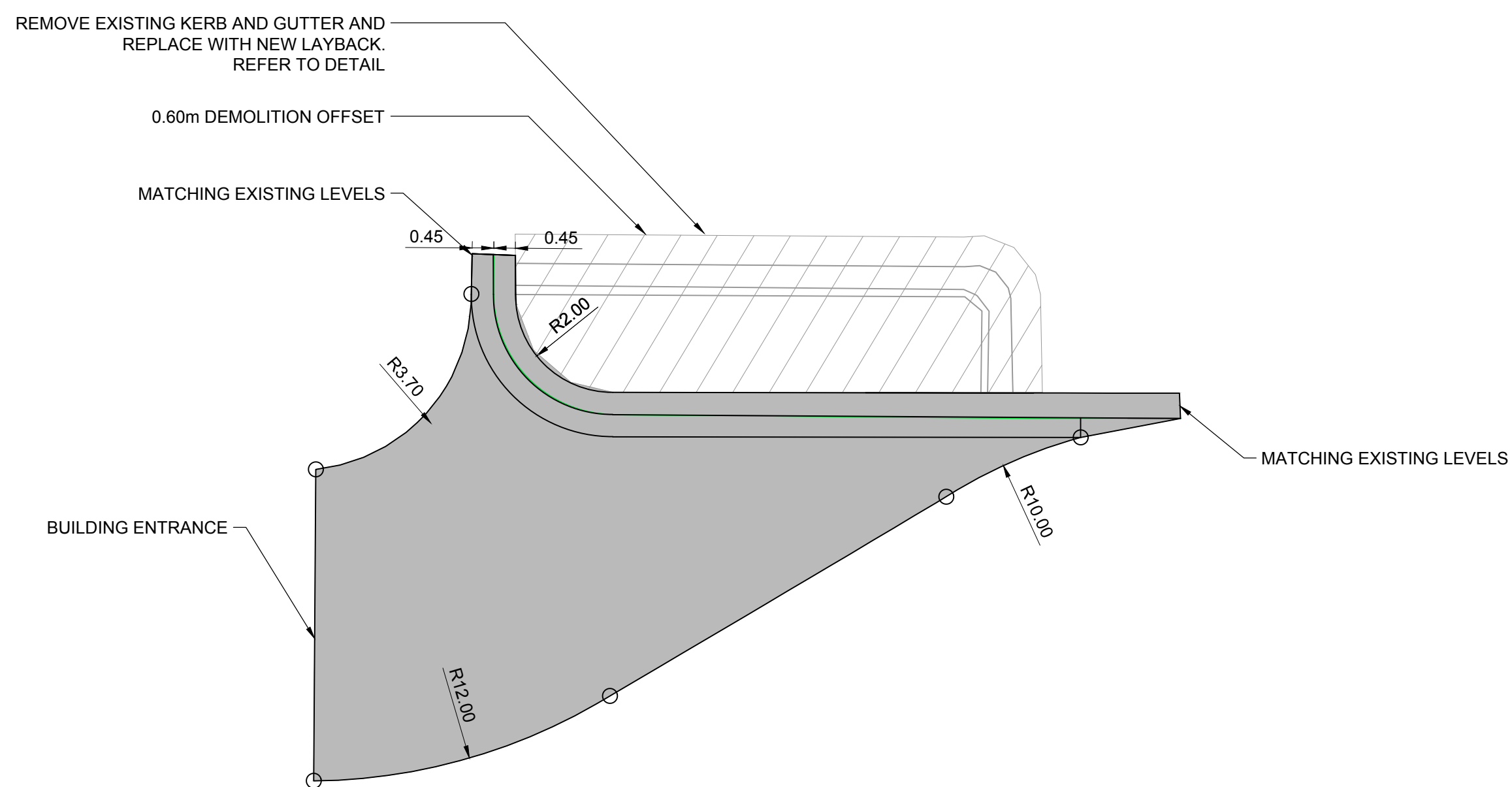
SCALE 1:200



DRIVEWAY SITE PLAN

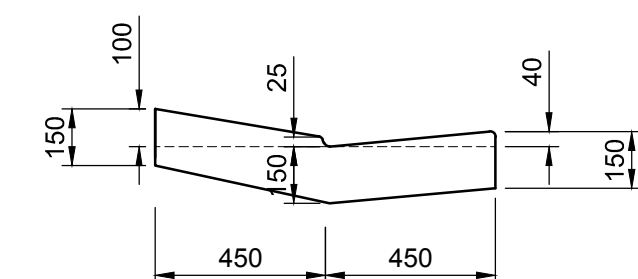
SCALE 1:100

NOTE:
DIAL BEFORE YOU DIG MUST BE DONE BEFORE
ANY EXCAVATION.



DRIVEWAY PLAN

SCALE 1:100



DISH CROSSING DETAIL

SCALE 1:20

LEGEND

- PROPERTY LINE
- ALIGNMENTS
- 57.0— PROPOSED CONTOUR MAJOR
- 56.7— PROPOSED CONTOUR MINOR
- 2.5% GRADIENT FALL
- BUILDING OUTLINE
- EXTENTS OF WORK
- PROPOSED CONCRETE DRIVEWAY

NOTE

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PROJECT NAME

50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475

DRAWING TITLE

DRIVEWAY PLAN, SECTIONS
AND DETAILS

SCALE: AS SHOWN @A1

DRAWN BY: JF

CHECKED BY: Q-EJ

DRAWING STATUS

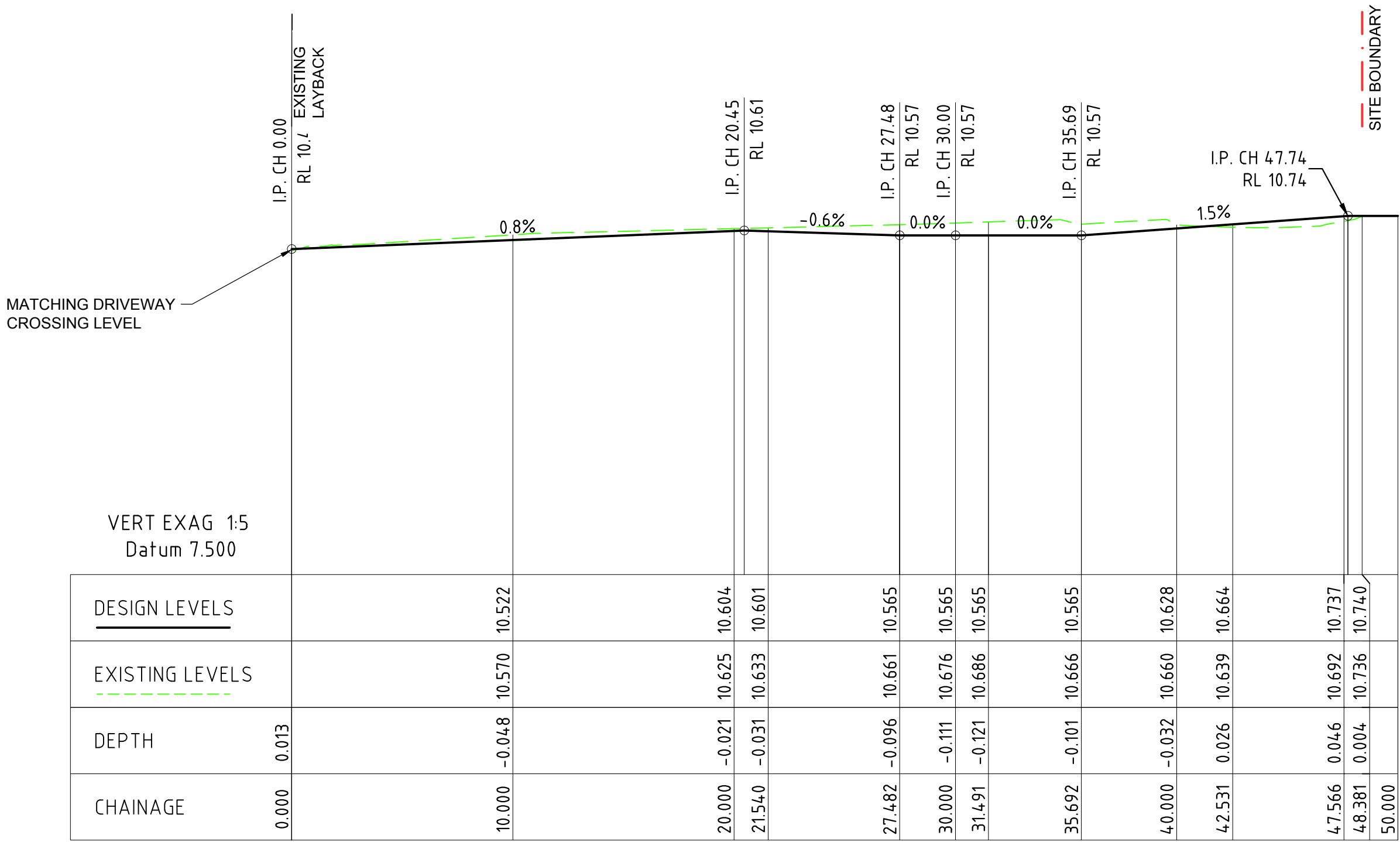
FOR APPROVAL

DRAWING NUMBER

CV-0500

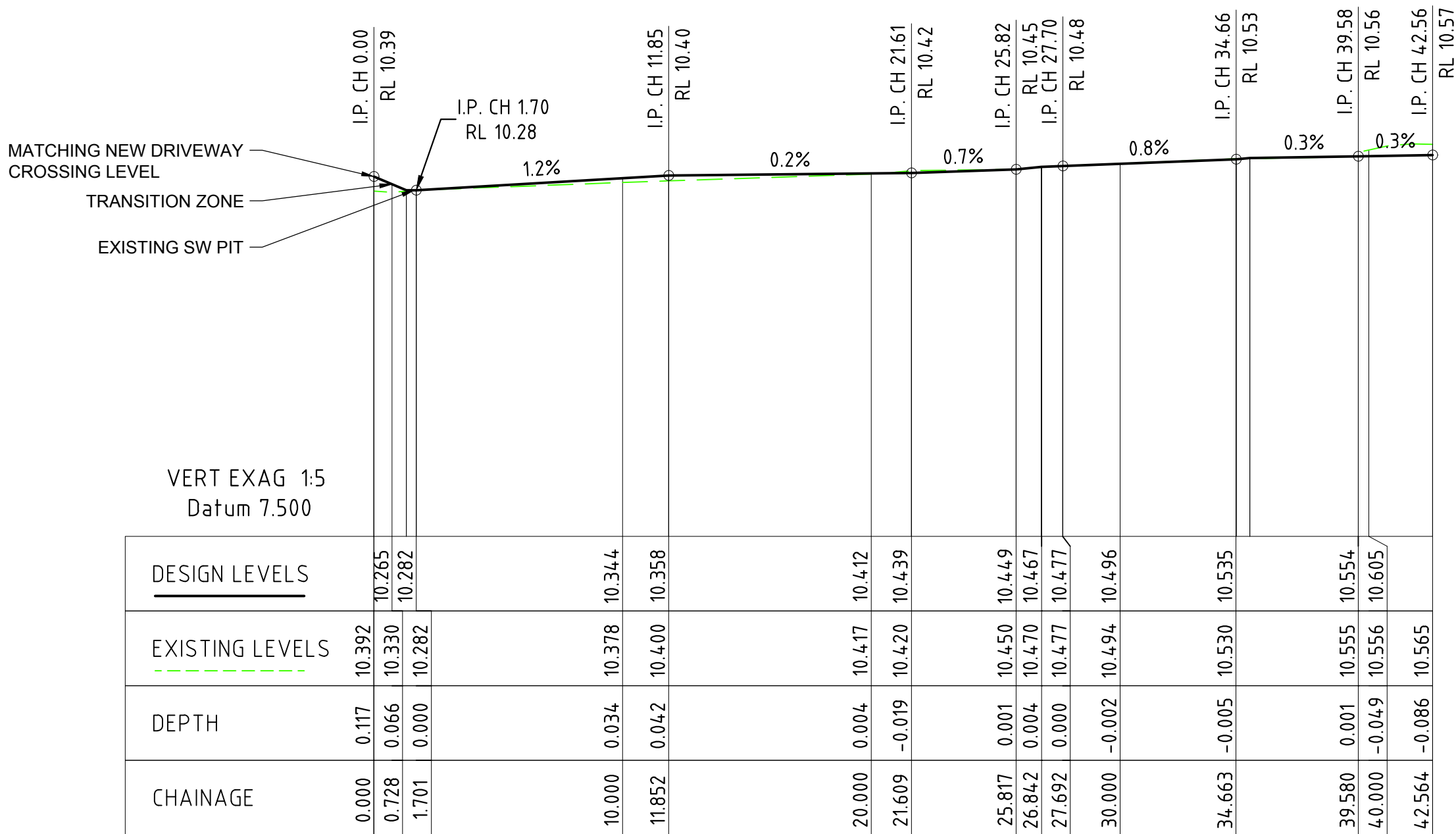
REV.

02



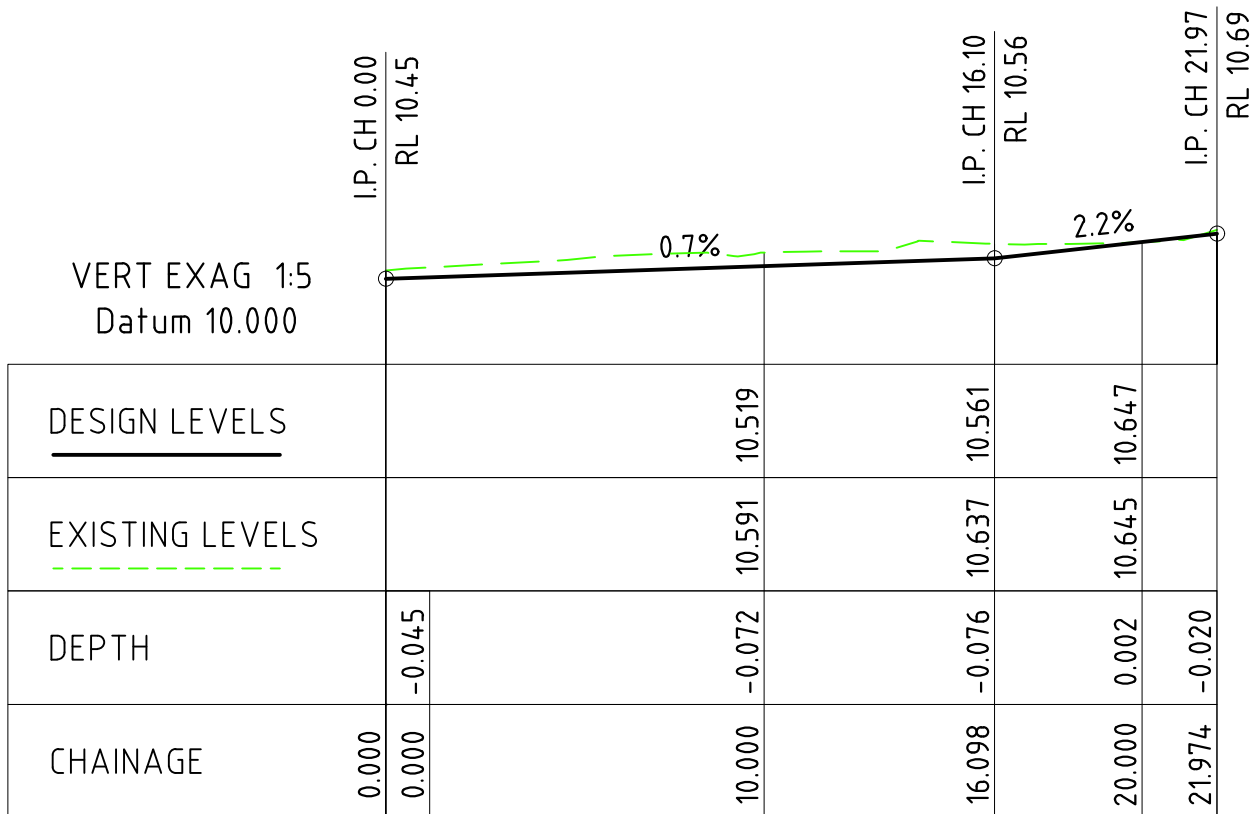
UNITED LANE - EAST ALIGNMENT - PROPERTY BOUNDARY

SCALE 1:200



UNITED LANE - WEST ALIGNMENT

SCALE 1:200



UNITED LANE - INVERT LINE LOGNSECTION

SCALE 1:200

LEGEND

PROPERTY LINE

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01	2007/18	REVISED FOR DEVELOPMENT APPLICATION
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PROJECT NAME

50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475

DRAWING TITLE

UNITED LANE PUBLIC DOMAIN
LONG SECTIONS

SCALE: 1200@A1

DRAWN BY: JF

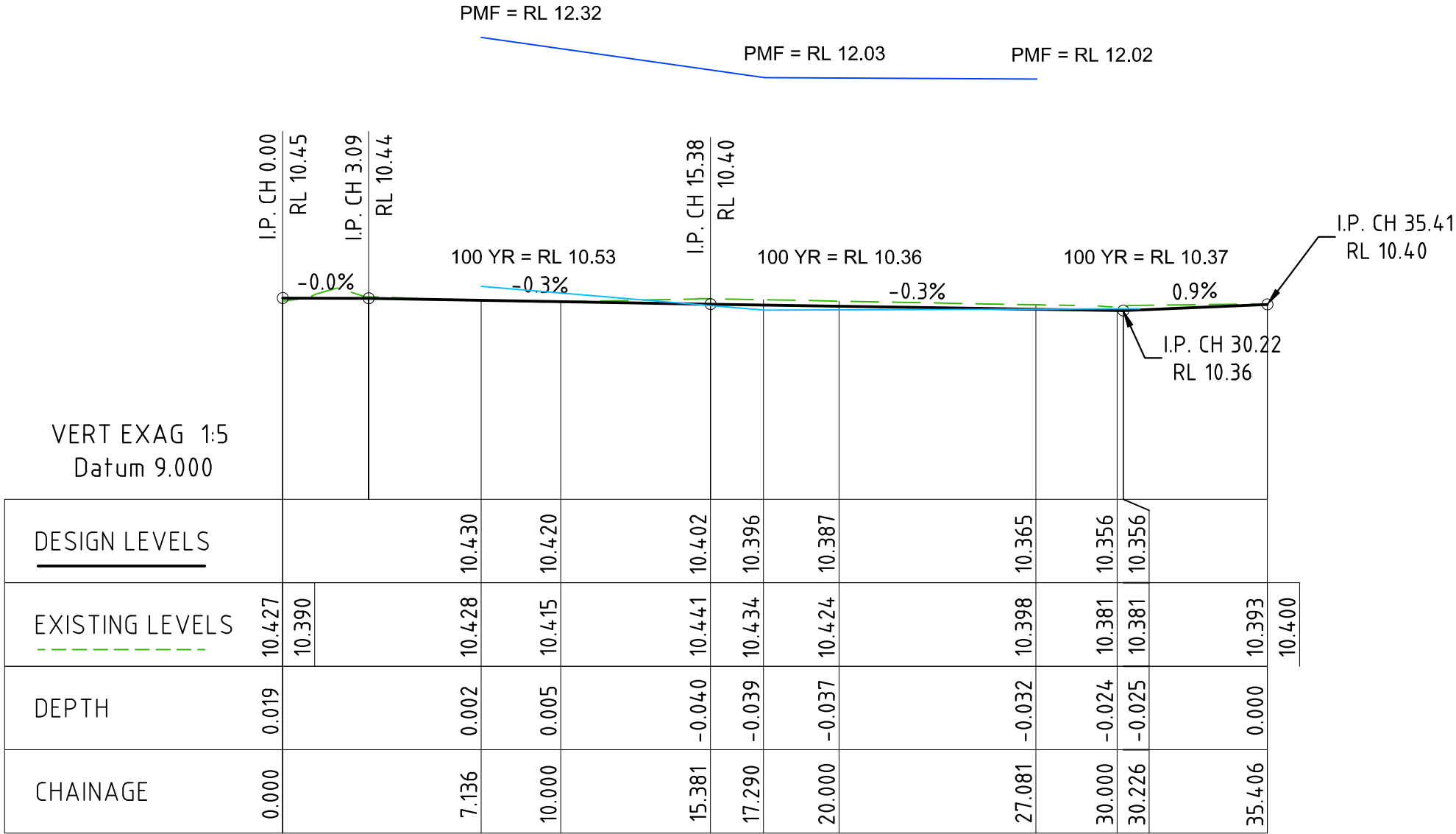
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DRAWING STATUS

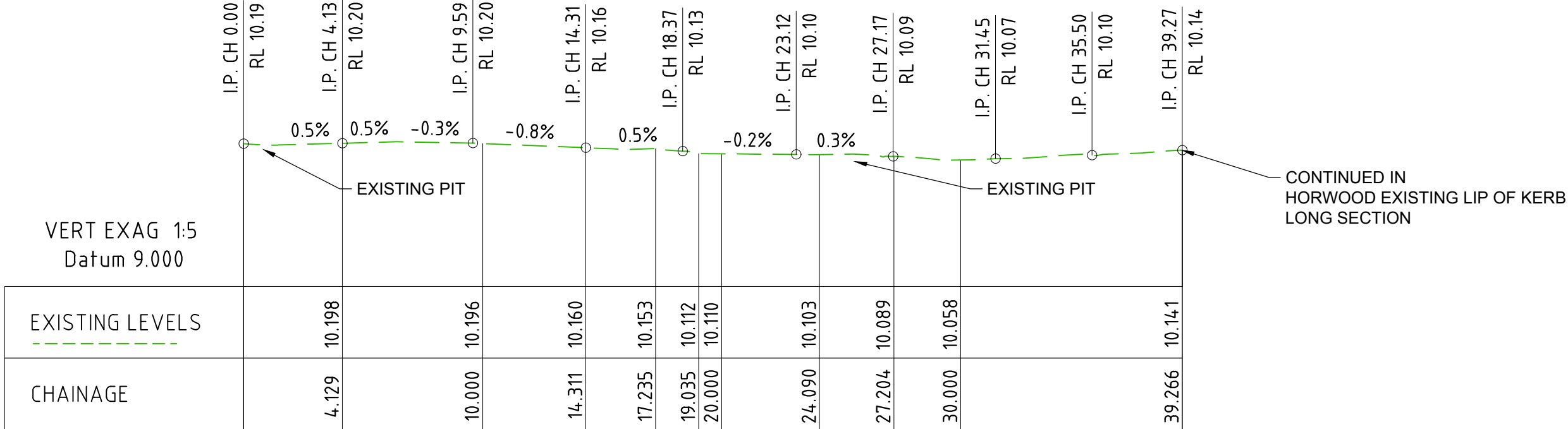
FOR APPROVAL

DRAWING NUMBER
CV-0600

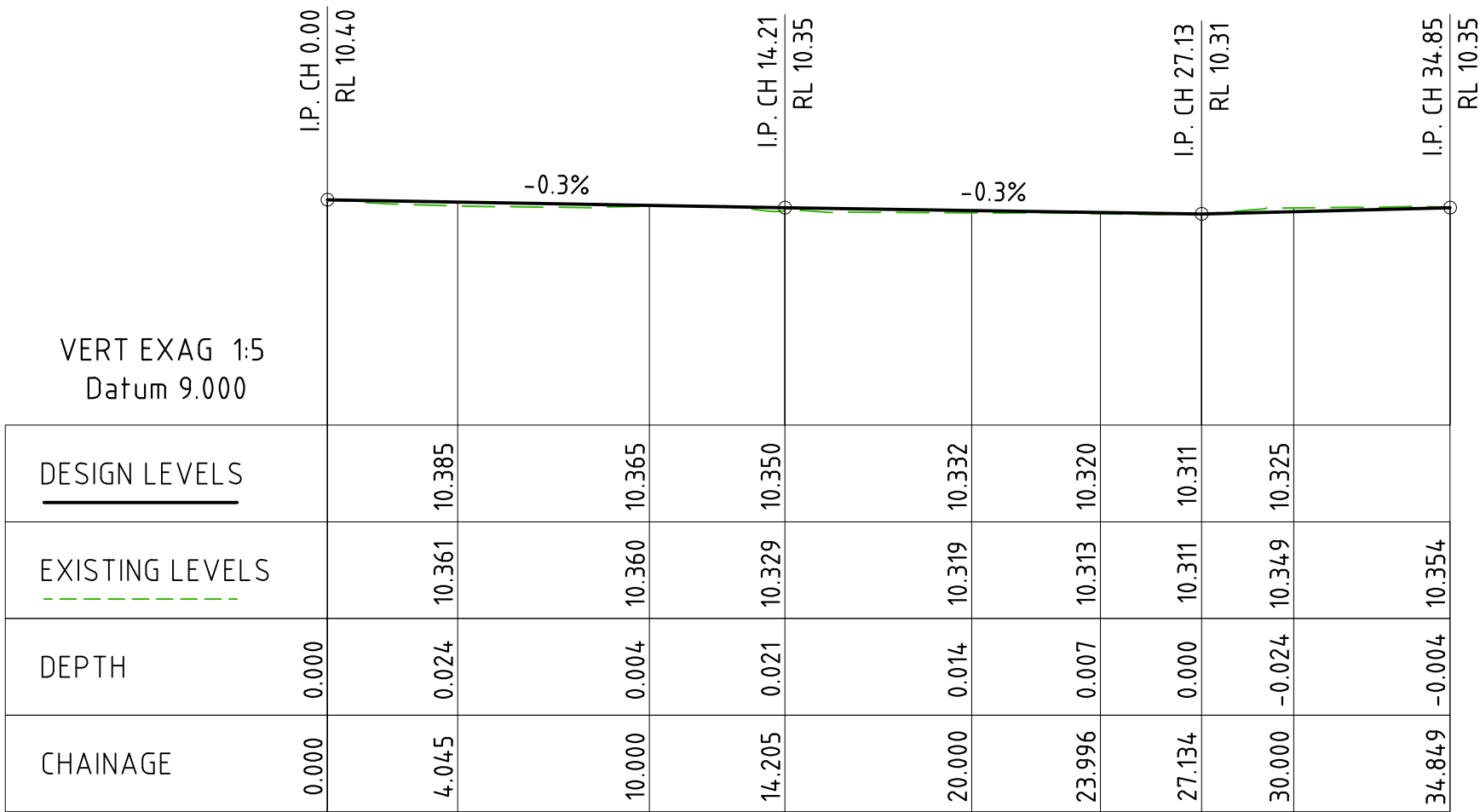
REV.
03



MACQUARIE STEET - PROPERTY BOUNDARY SOUTH - LONG SECTION
SCALE 1:200



MACQUARIE STEET - EXISTING LIP OF KERB LONG SECTION
SCALE 1:200



MACQUARIE STEET - FOOTPATH BREAKLINE - LONG SECTION
SCALE 1:200

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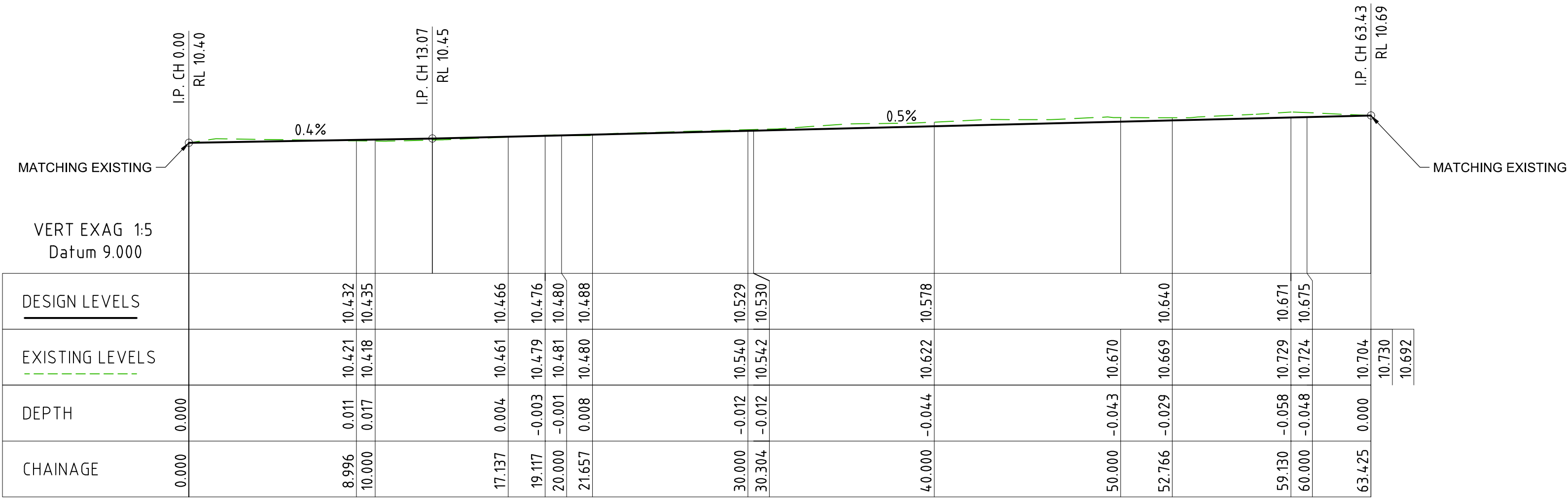
PROJECT NAME
50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475
DRAWING TITLE
MACQUARIE STREET
LONG SECTIONS

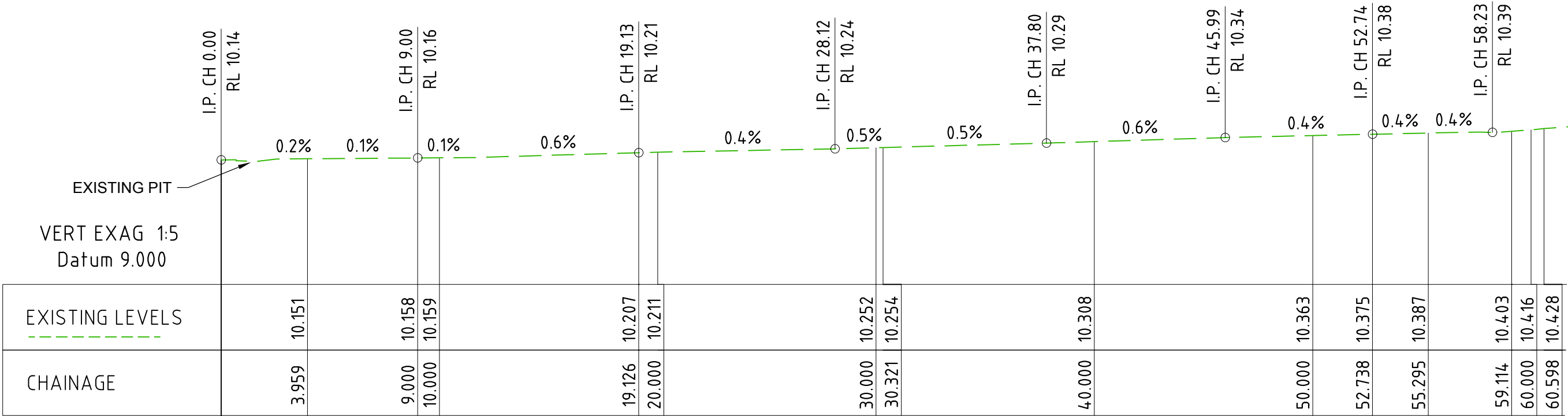
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DRAWN BY: JF
CHECKED BY: Q-EJ

DRAWING STATUS
FOR APPROVAL

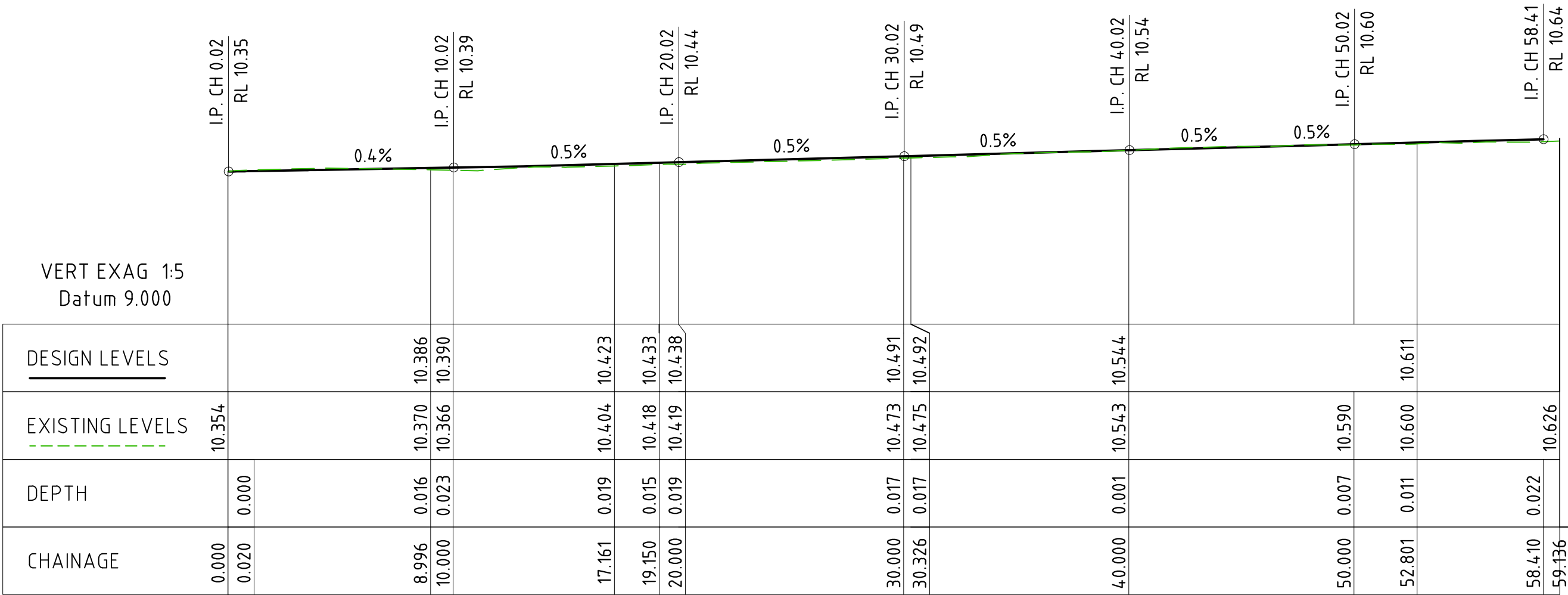
DRAWING NUMBER CV-0620	REV. 02
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HORWOOD PLACE - PROPERTY BOUNDARY - LONG SECTION
SCALE 1:200



HORWOOD PLACE - EXISTING LIP OF KERB - LONG SECTION
SCALE 1:200



HORWOOD PLACE - FOOTPATH BREAKLINE - LONG SECTION
SCALE 1:200

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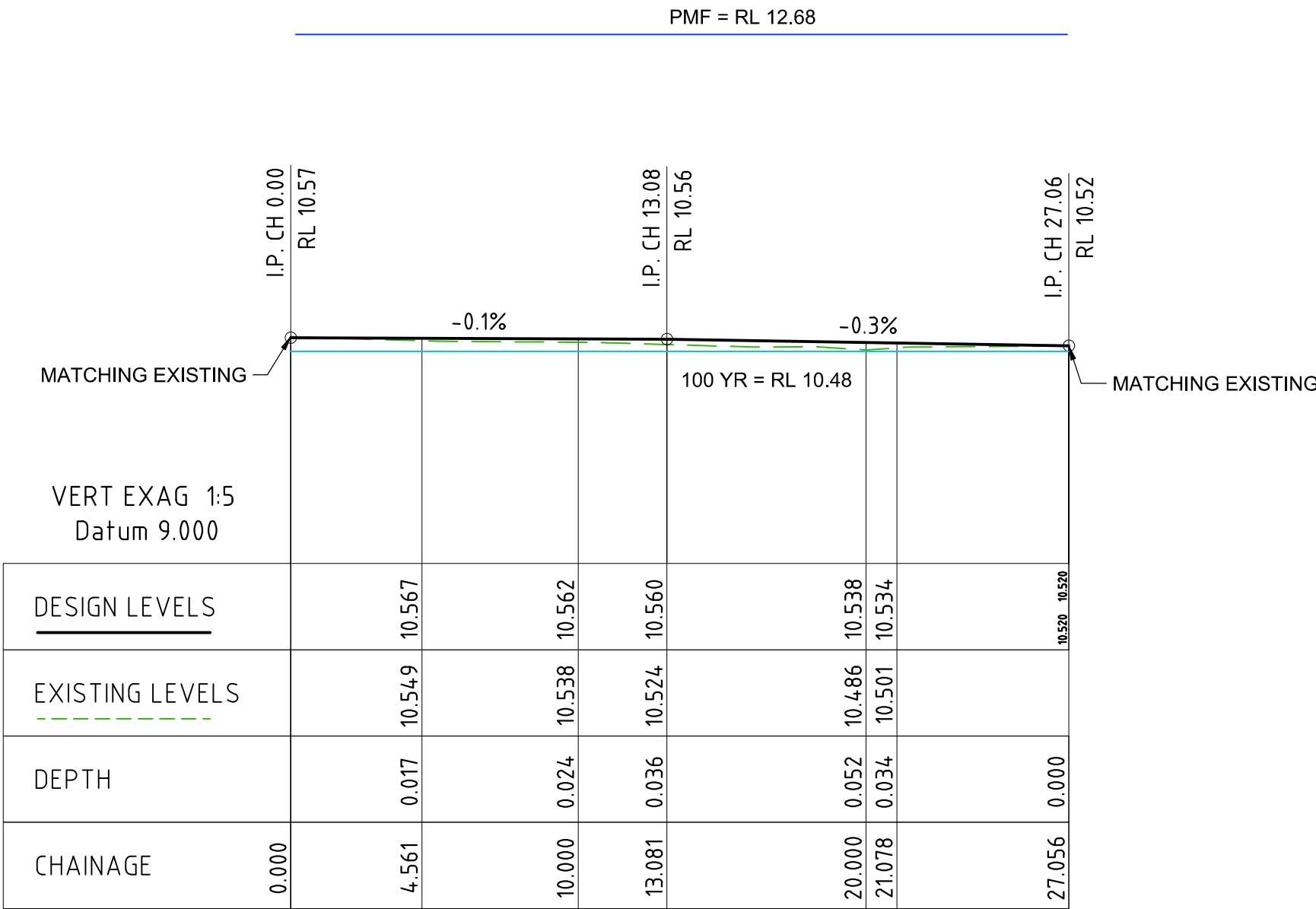
PROJECT NAME
**50 MACQUARIE STREET &
220 CHURCH STREET**

PROJECT NUMBER: 5475
DRAWING TITLE
**HORWOOD PLACE
LONG SECTION**

SCALE: 1:200@A1
DRAWN BY: JF
CHECKED BY: Q-EJ

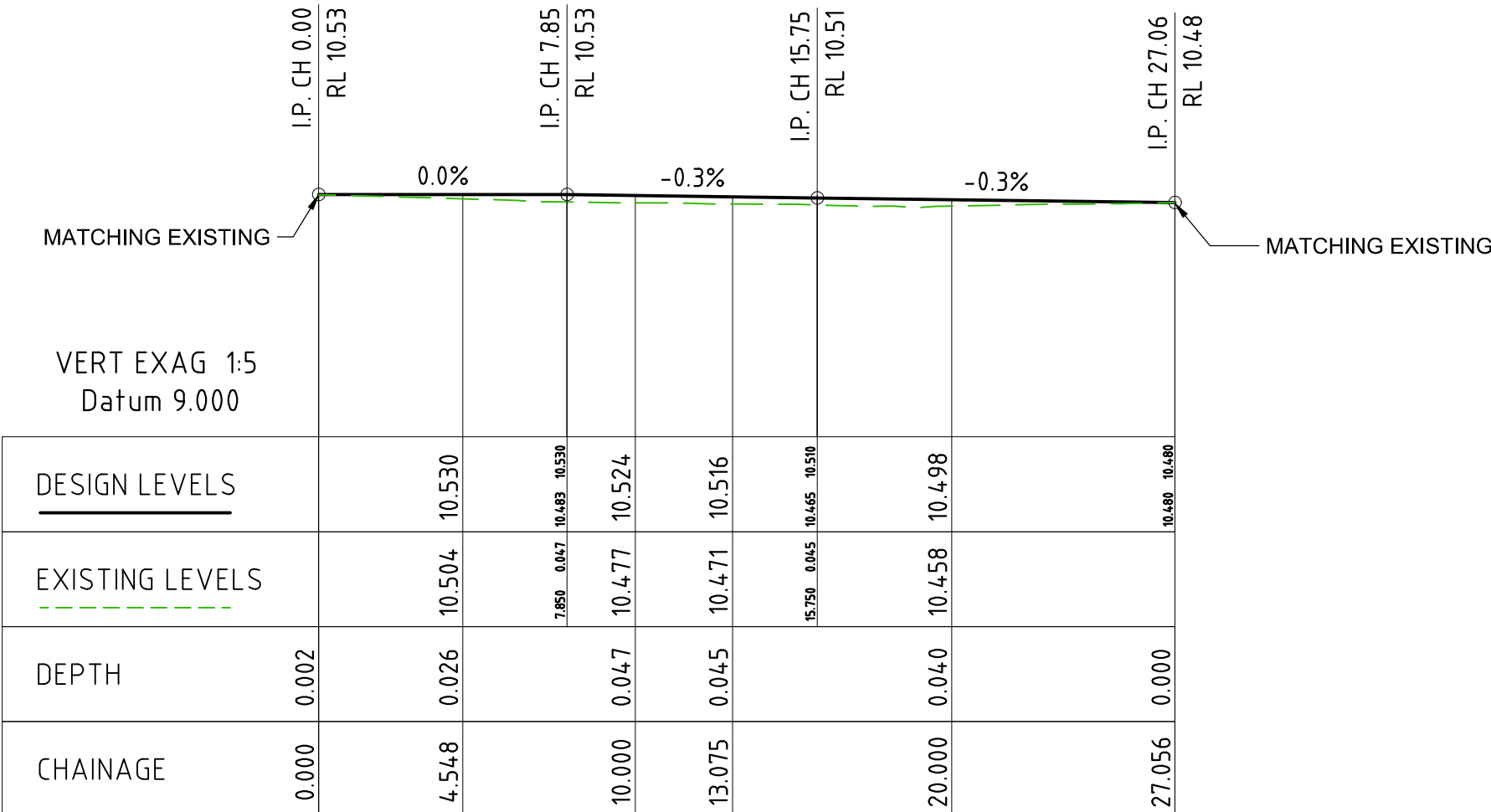
DRAWING STATUS
FOR APPROVAL

DRAWING NUMBER CV-0640	REV. 02
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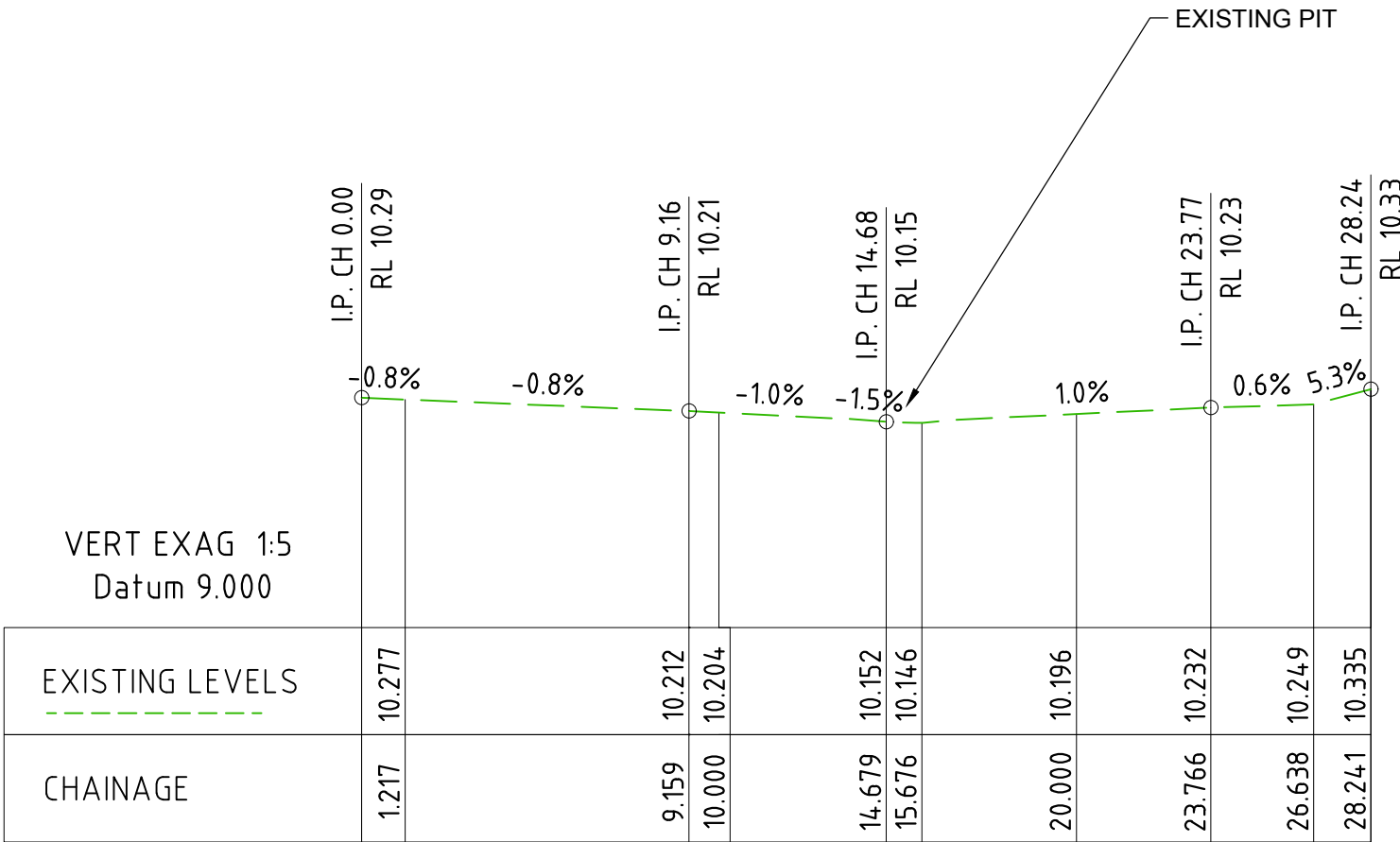
CHURCH STREET - PROPERTY BOUNDARY - LONG SECTION

SCALE 1:200



CHURCH STREET - FOOTPATH BREAKLINE- LONG SECTION

SCALE 1:200



CHURCH STREET - EXISTING LIP OF KERB - LONG SECTION

SCALE 1:200

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ARCHITECT

CRONE ARCHITECTS

level 2, 364 Kent street,
Sydney, NSW, 2000

PROJECT NAME

50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475

DRAWING TITLE

CHURCH STREET
LONG SECTIONS

SCALE: 1:200 @A1

DRAWN BY: JF

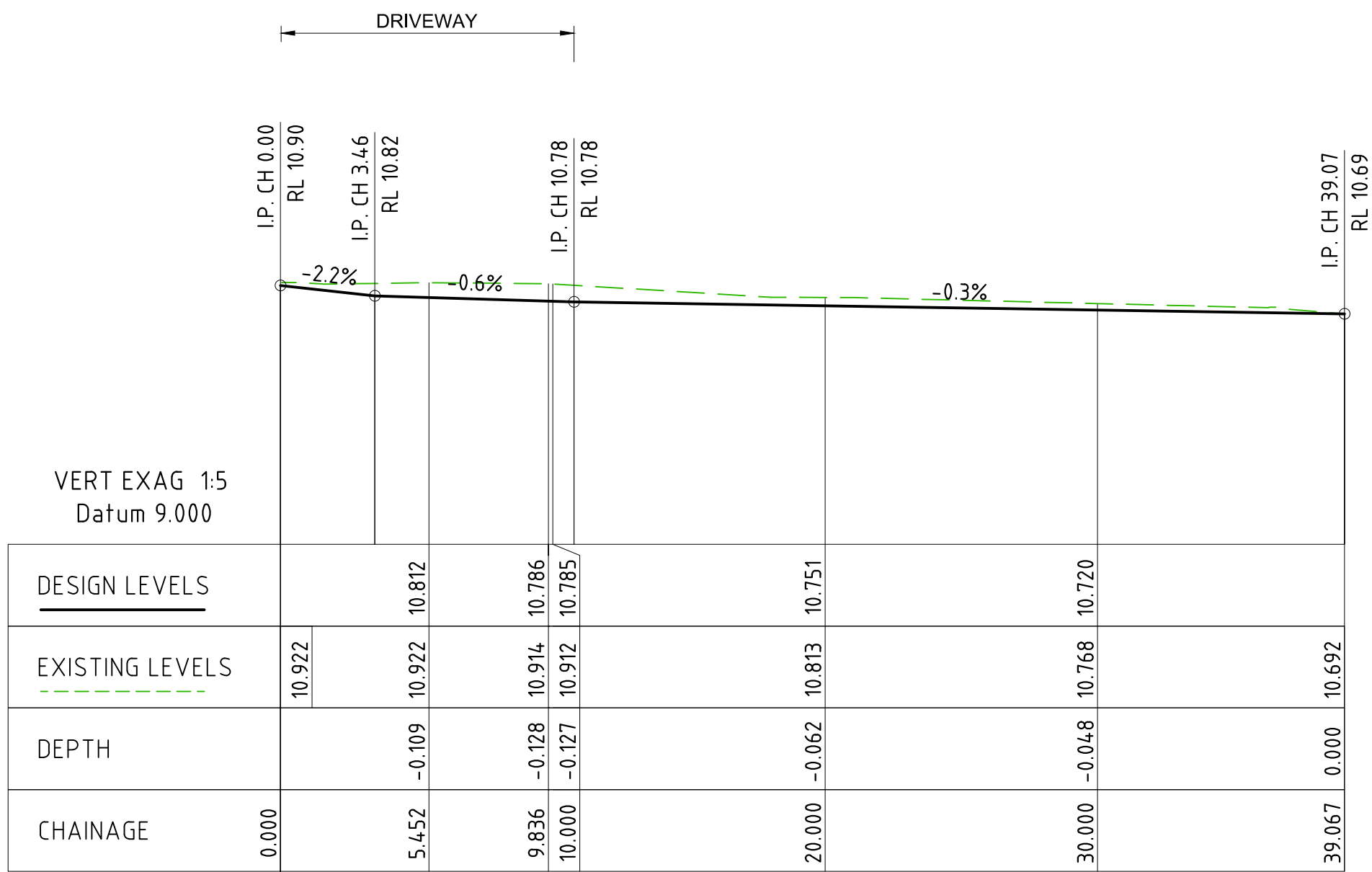
CHECKED BY: Q-EJ

DRAWING STATUS

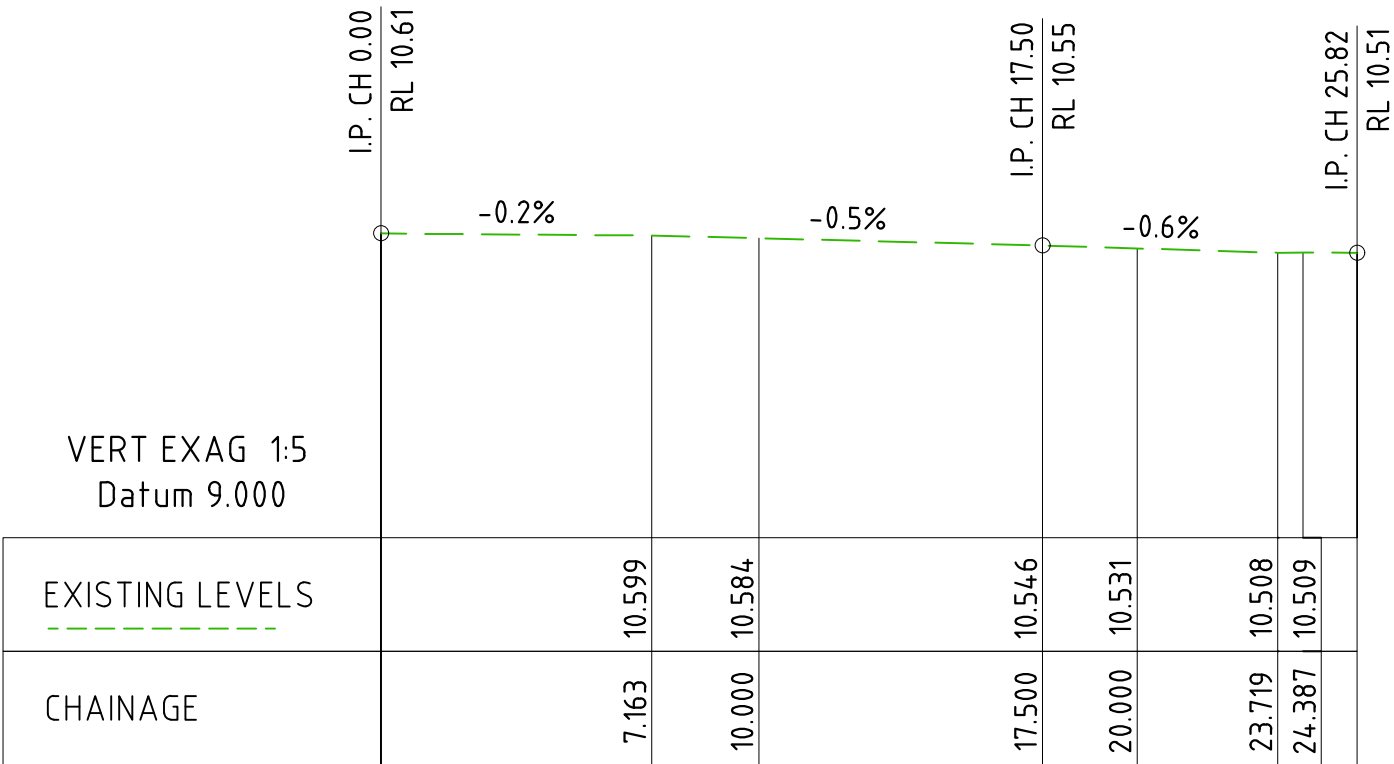
FOR APPROVAL

DRAWING NUMBER
CV-0660

REV.
02



HOUISON PLACE - PROPERTY BOUNDARY - LONG SECTION
SCALE 1:200



HOUISON PLACE - EXISTING LIP OF KERB - LONG SECTION
SCALE 1:200

NOTE
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01	01/08/18	REVISED FOR DEVELOPMENT APPLICATION
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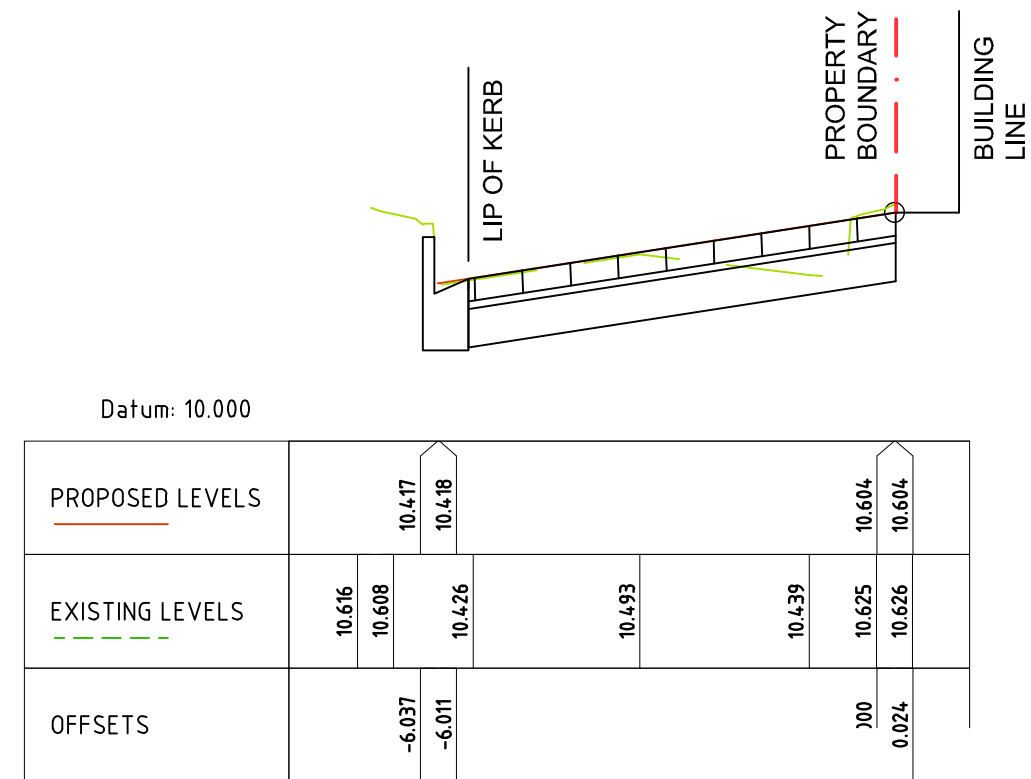
PROJECT NAME
**50 MACQUARIE STREET &
220 CHURCH STREET**

PROJECT NUMBER: 5475
DRAWING TITLE
**HOUISON PLACE
LONG SECTIONS**

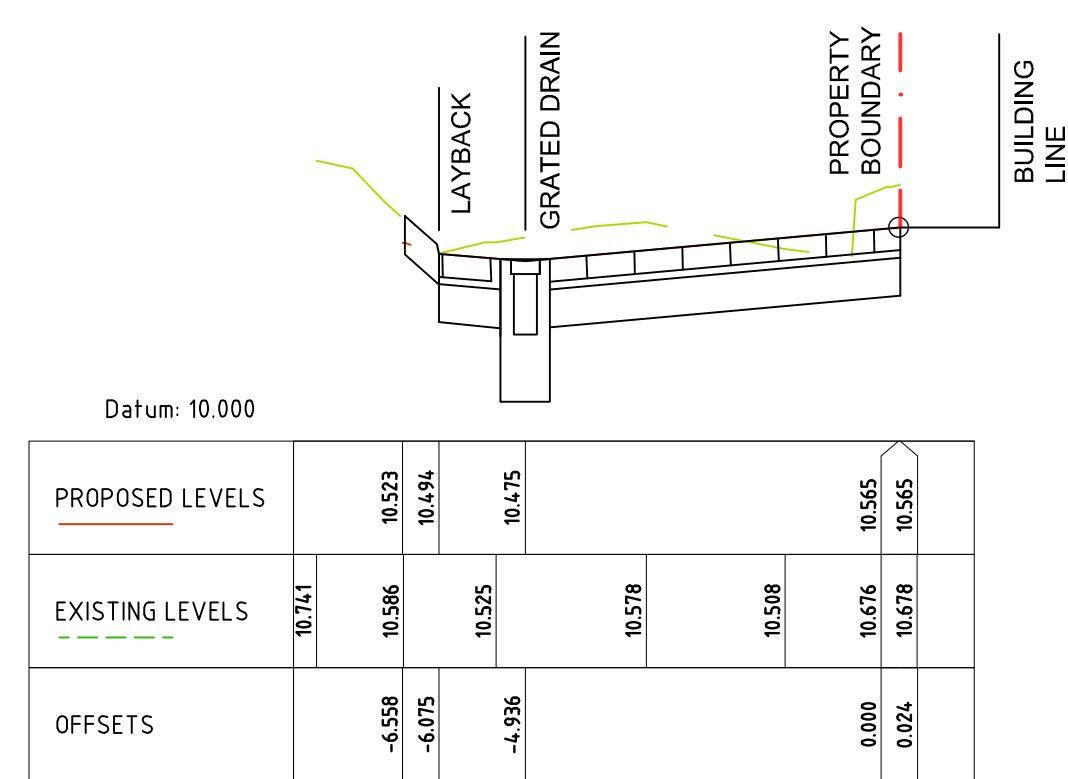
SCALE: 1:200 @A1
DRAWN BY: JF
CHECKED BY: Q-EJ

DRAWING STATUS
FOR APPROVAL

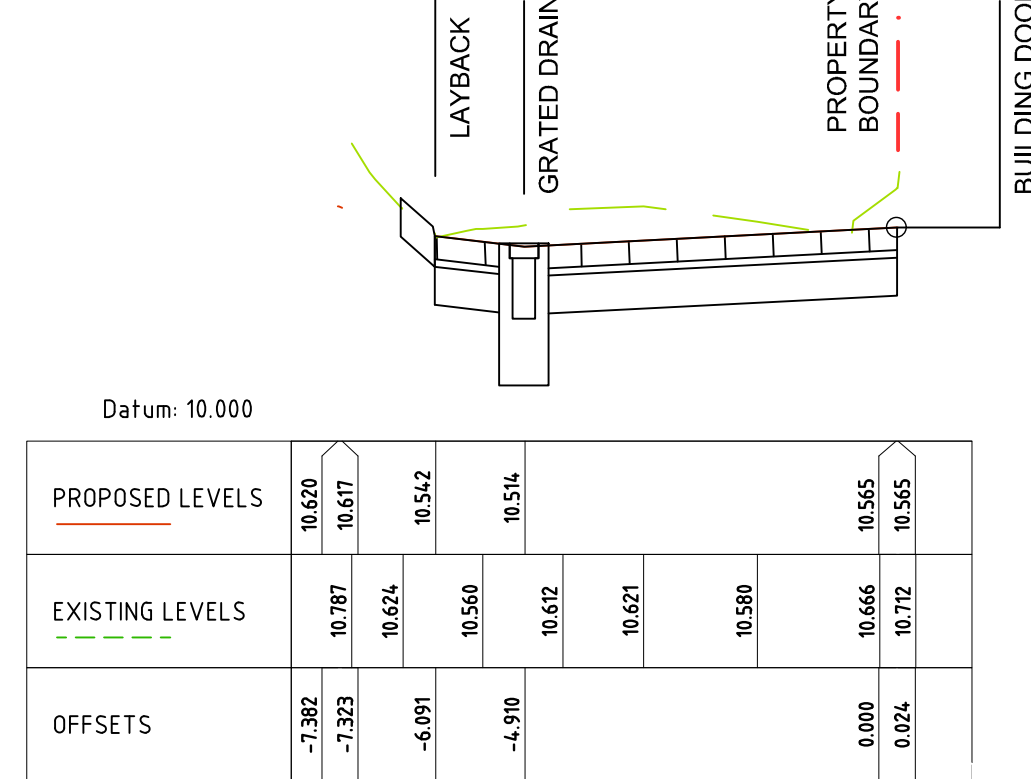
DRAWING NUMBER	REV.
CV-0680	02



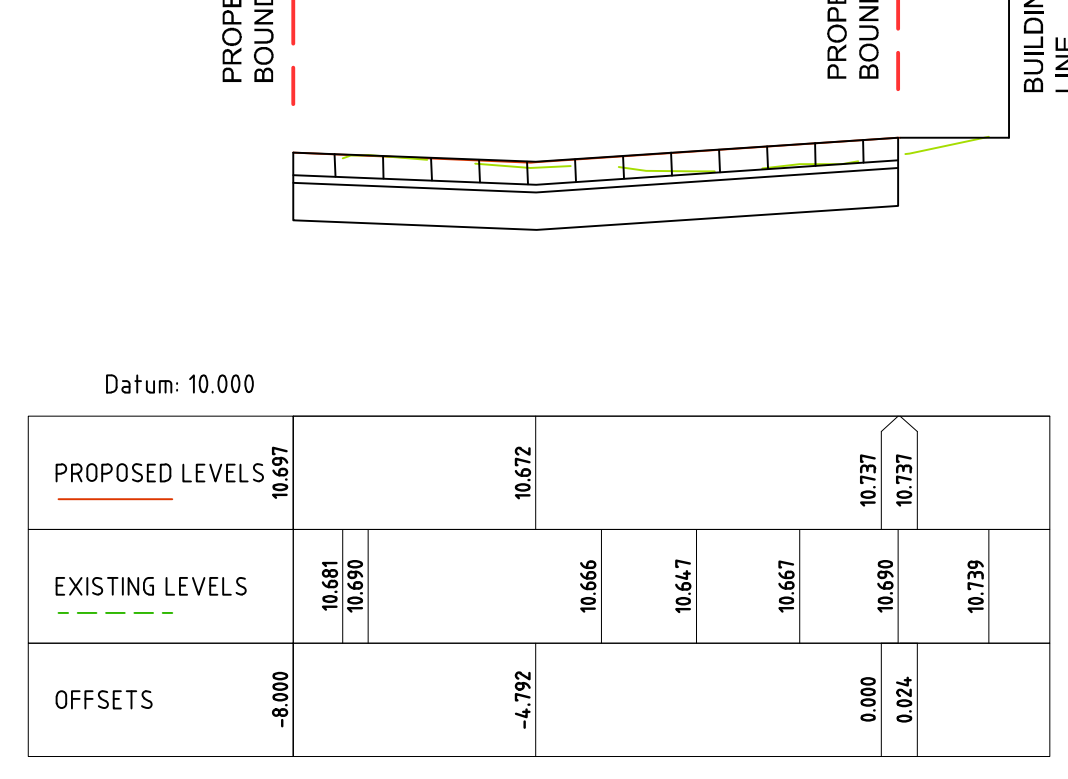
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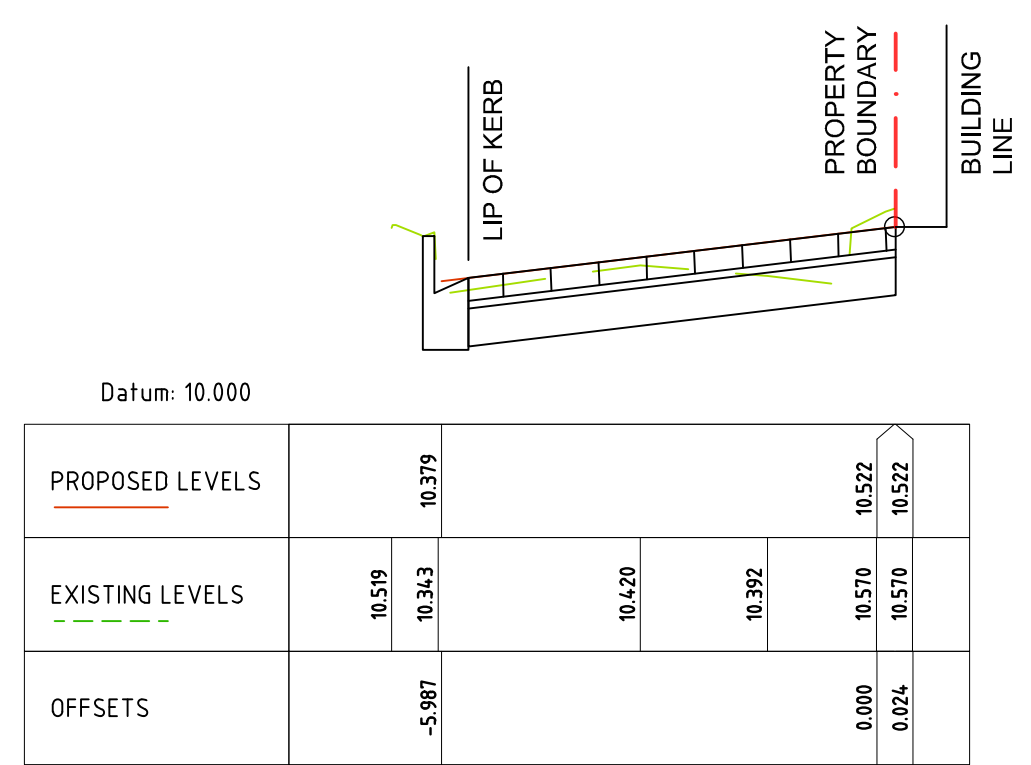
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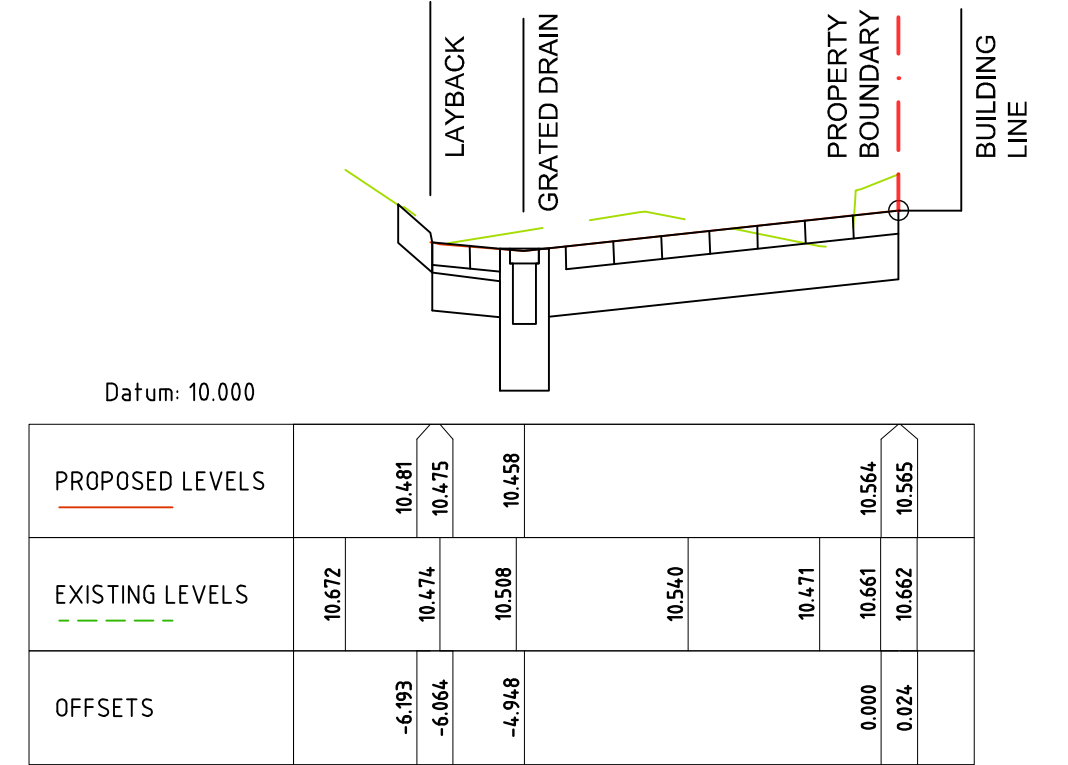
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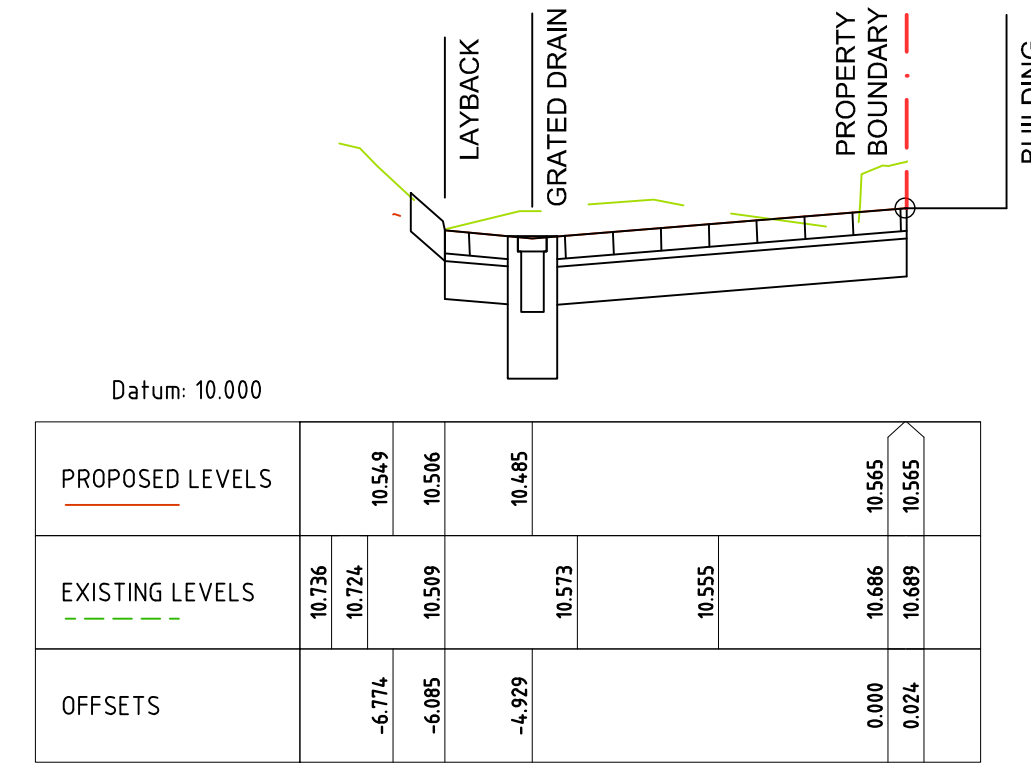
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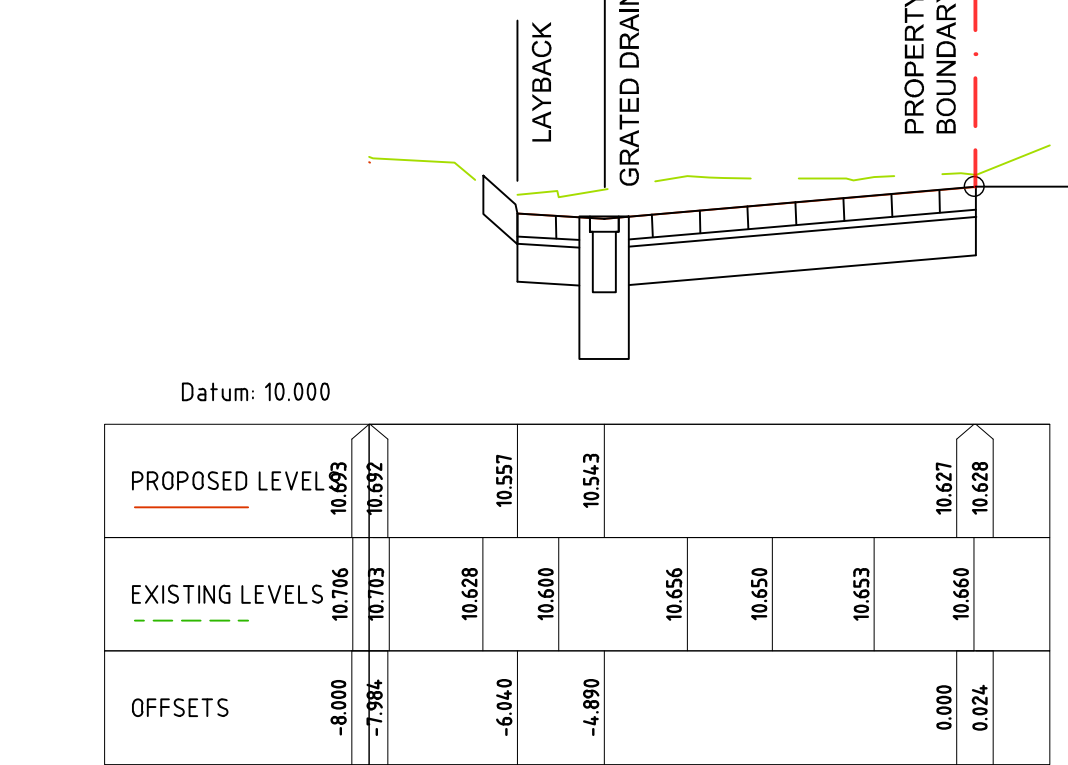
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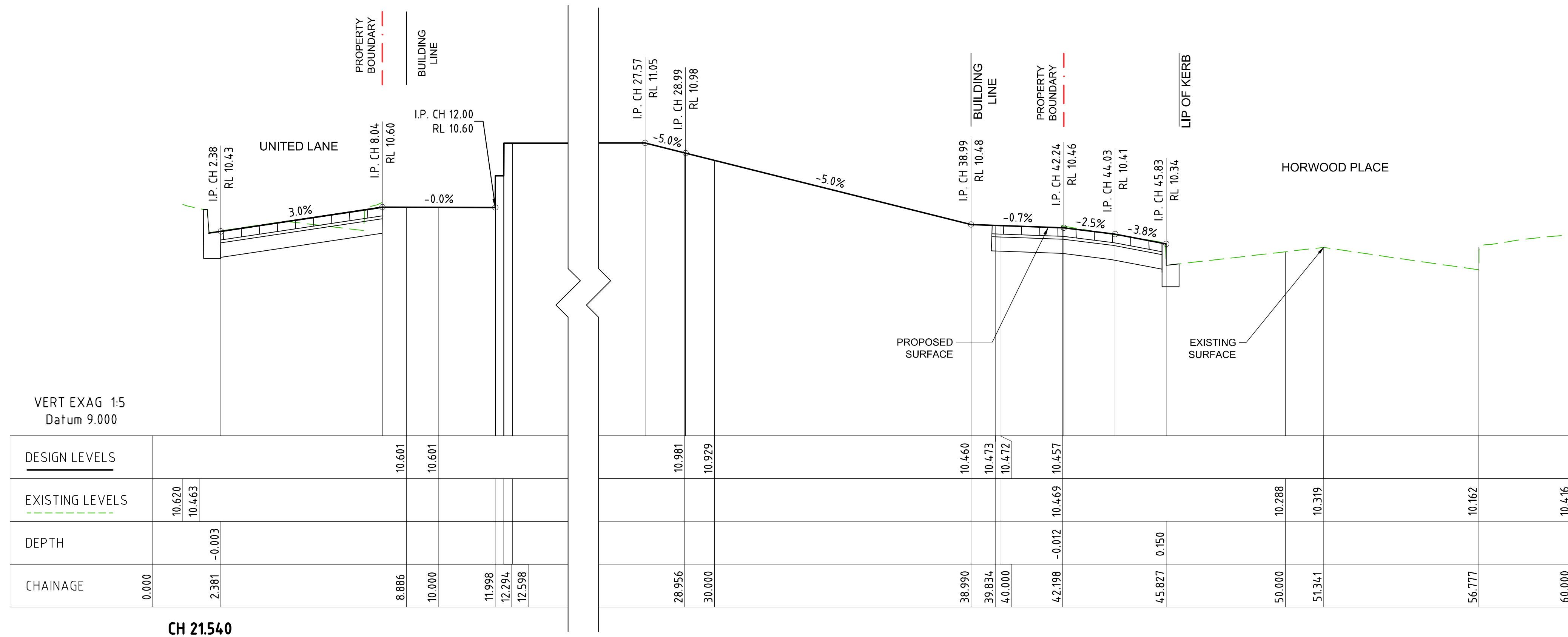
CH: 27.482



CH: 31.491



CH: 40.000



UNITED LANE PUNLIC DOMAIN CROSS SECTIONS

SCALE 1:100
VERTICAL EXAG X5

NOTE
SECTIONS IN CORRESPONDANCE WITH UNITED LANE EAST ALIGNMENT CHAINAGES

LEGEND

EXISTING SURFACE

NOTE

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01	2007/10	REVISED FOR DEVELOPMENT APPLICATION
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PROJECT NAME

50 MACQUARIE STREET &
220 CHURCH STREET

PROJECT NUMBER: 5475

DRAWING TITLE

UNITED LANE PUBLIC DOMAIN
CROSS SECTIONS

SCALE: 1:100@A1

DRAWN BY: JF

CHECKED BY: Q-EJ

DRAWING STATUS

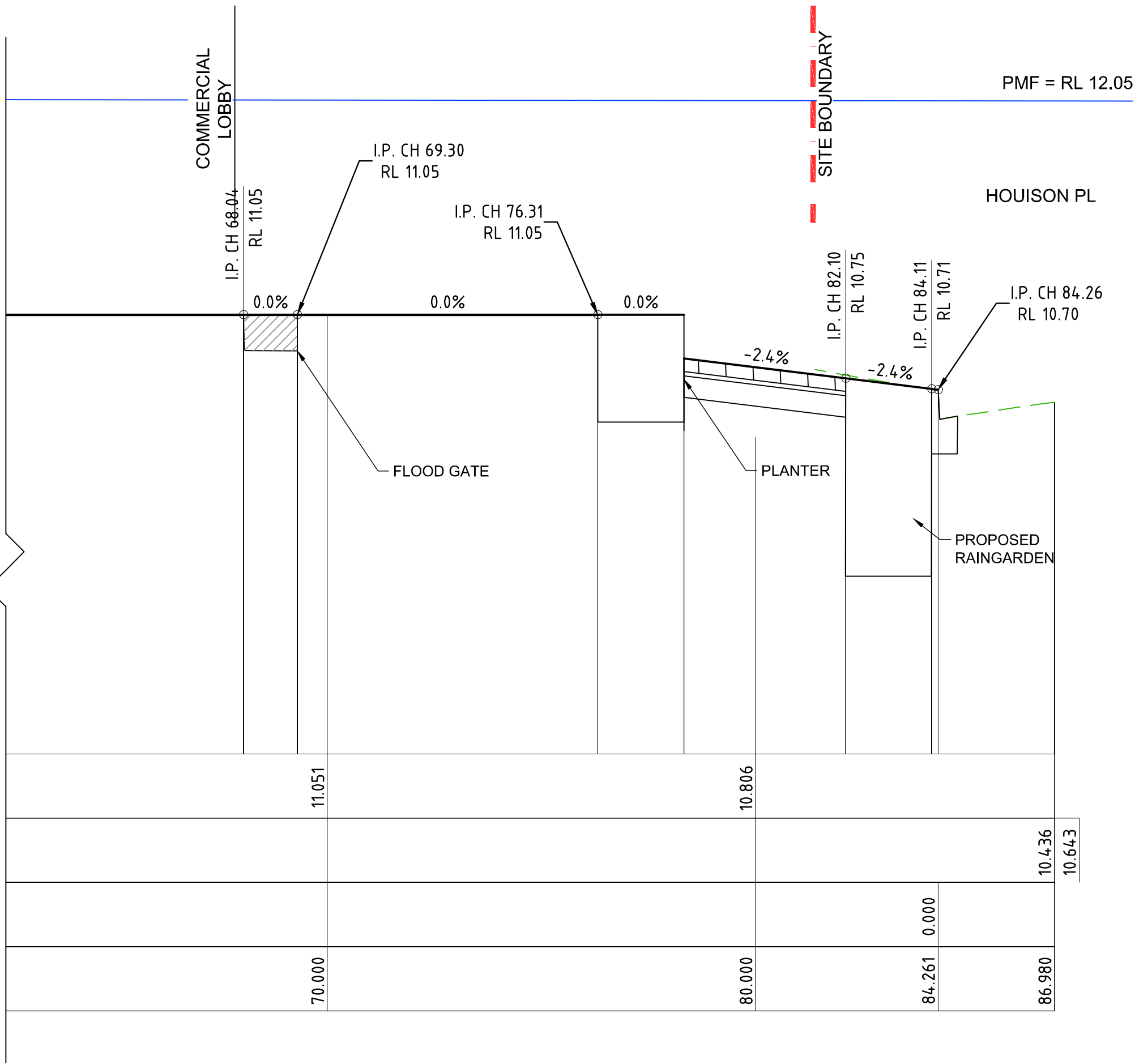
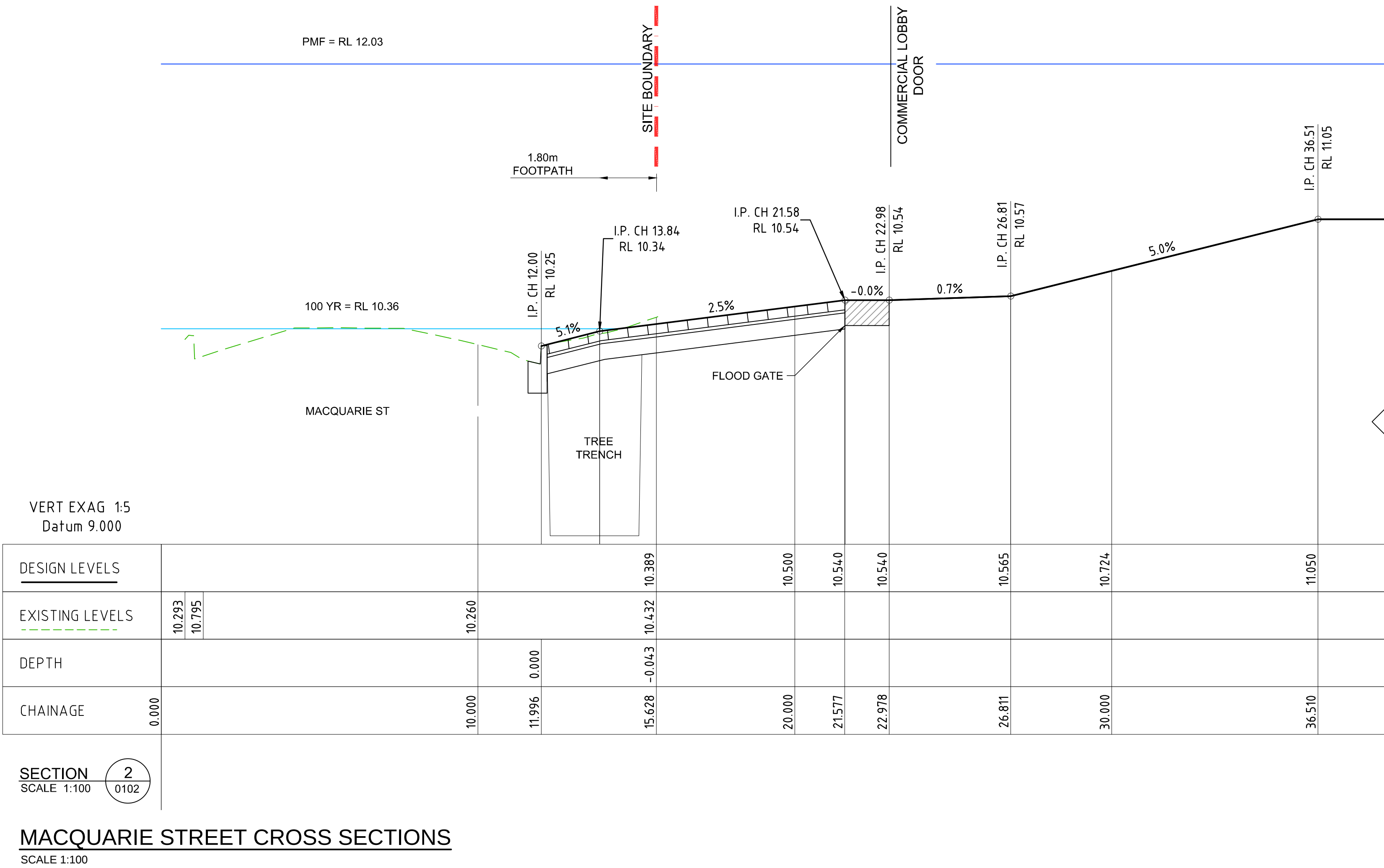
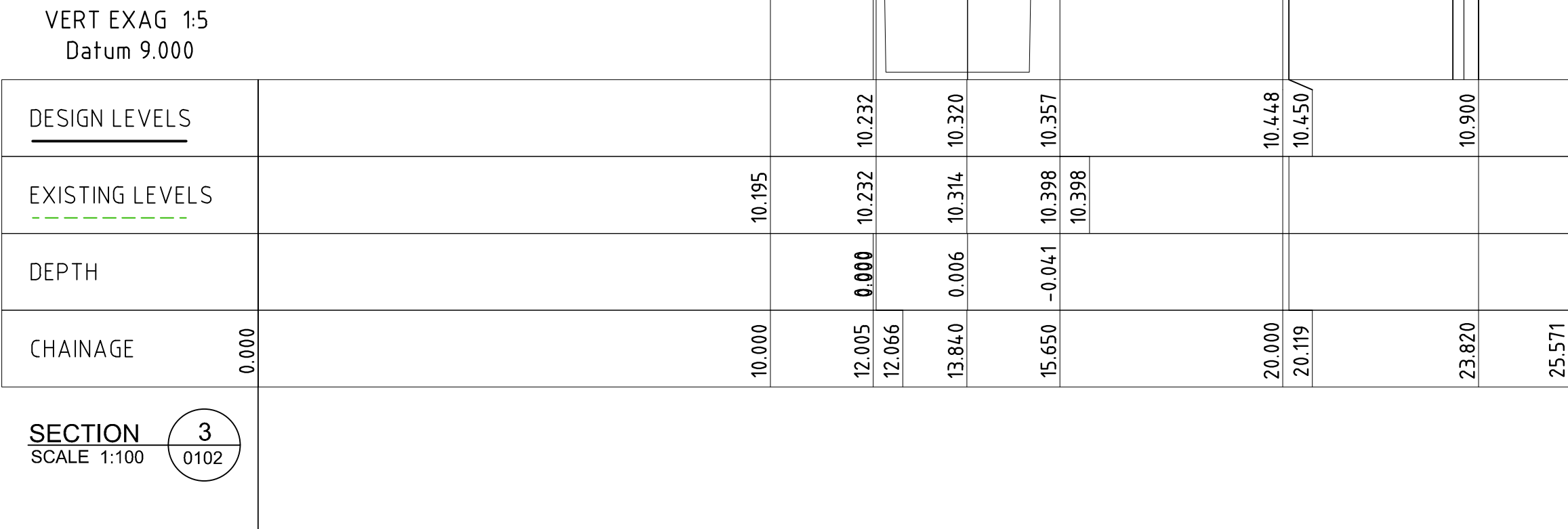
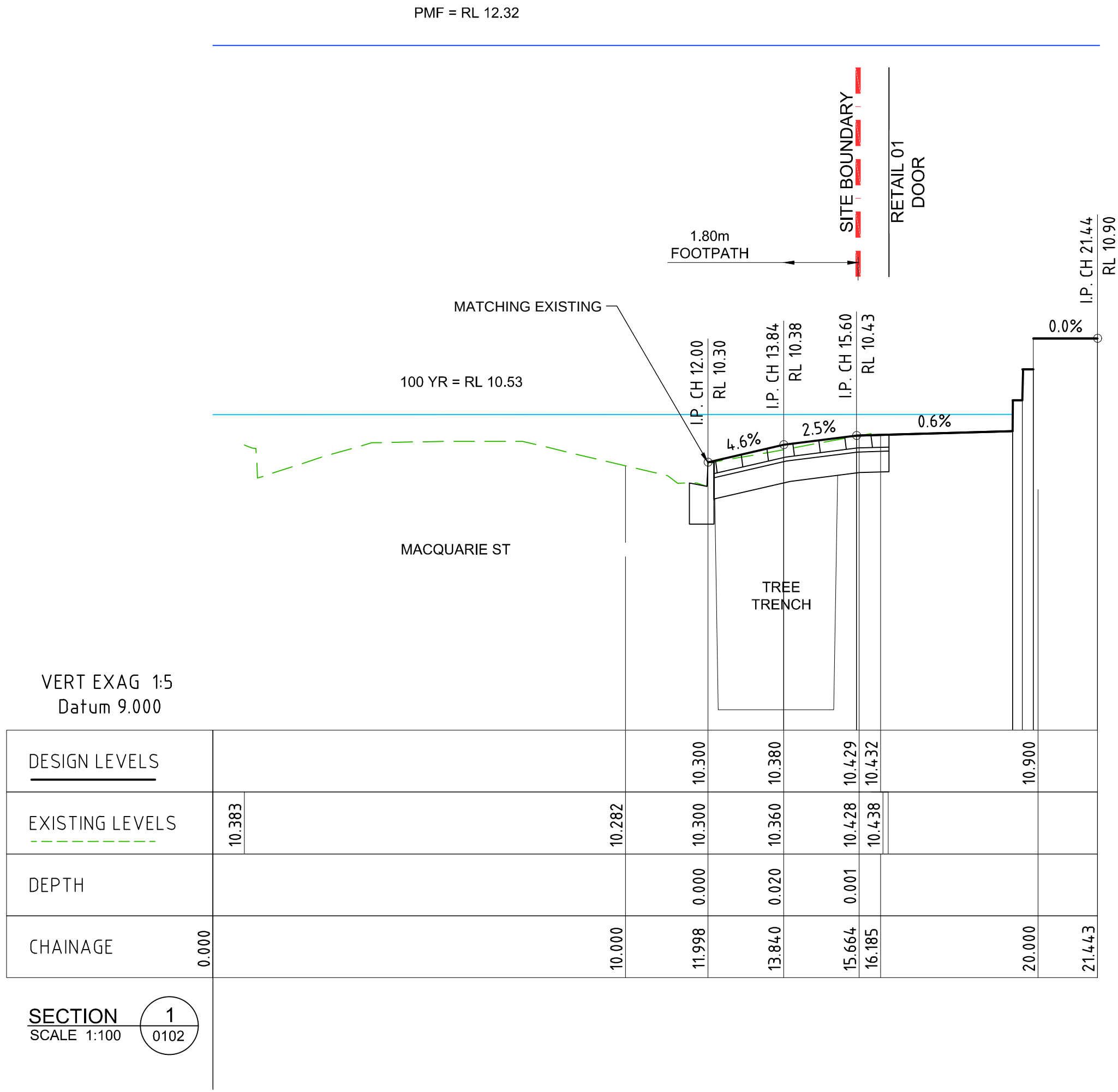
FOR APPROVAL

DRAWING NUMBER

CV-0700

REV.

03



LEGEND

PROPERTY LINE

FOR TREE TRENCH DETAIL REFER LANDSCAPE ARCHITECS REPORT

NOTE
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01	2007/18	REVISED FOR DEVELOPMENT APPLICATION
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04	17/08/18	REVISED FOR DEVELOPMENT APPLICATION

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Sydney, NSW, 2000

PROJECT NAME
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PROJECT NUMBER: 5475

DRAWING TITLE
MACQUARIE STREET
CROSS SECTIONS

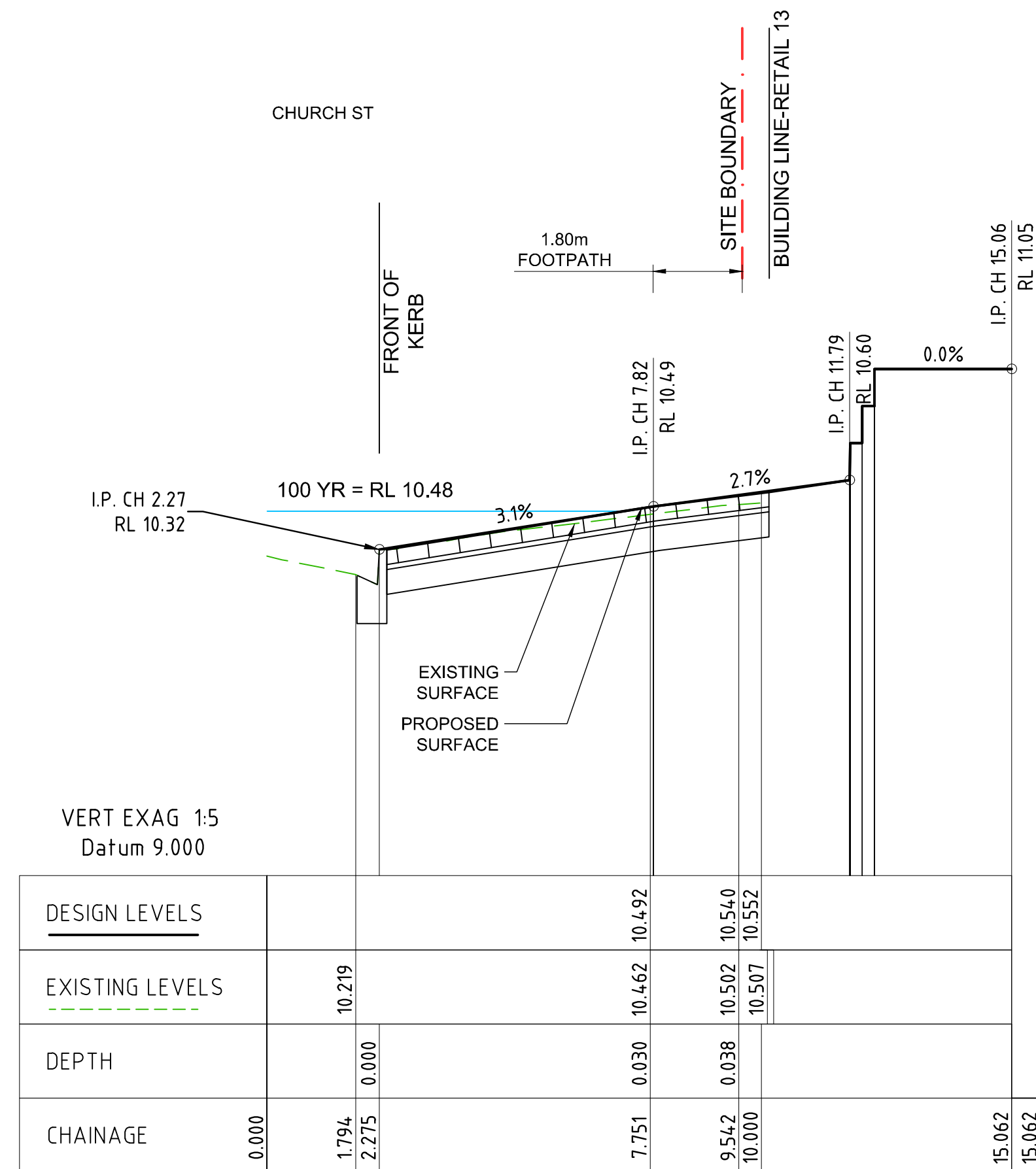
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DRAWN BY: JF
CHECKED BY: Q-EJ

DRAWING STATUS
FOR APPROVAL

DRAWING NUMBER
CV-0720

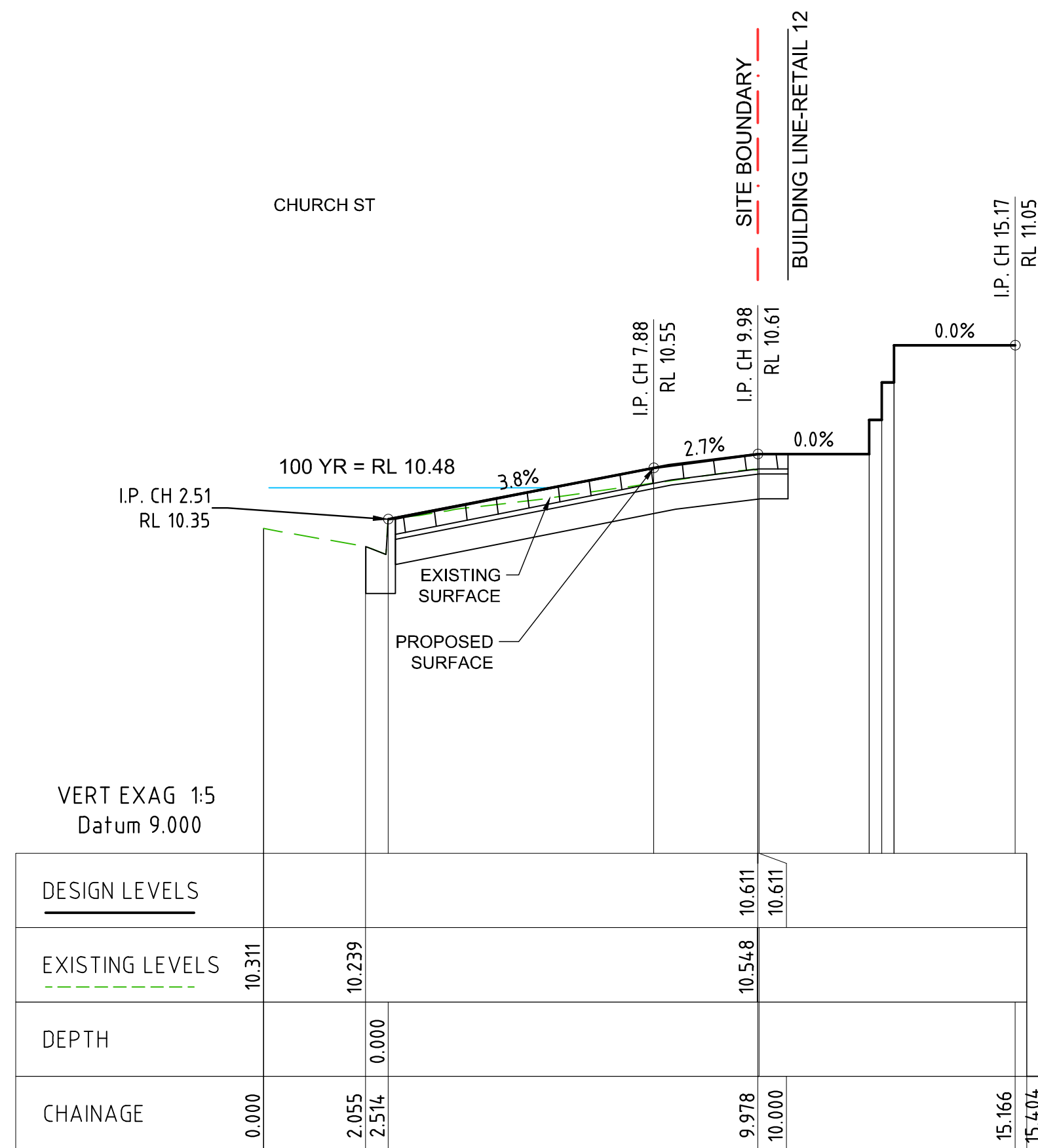
REV.
04

PMF = RL 12.68



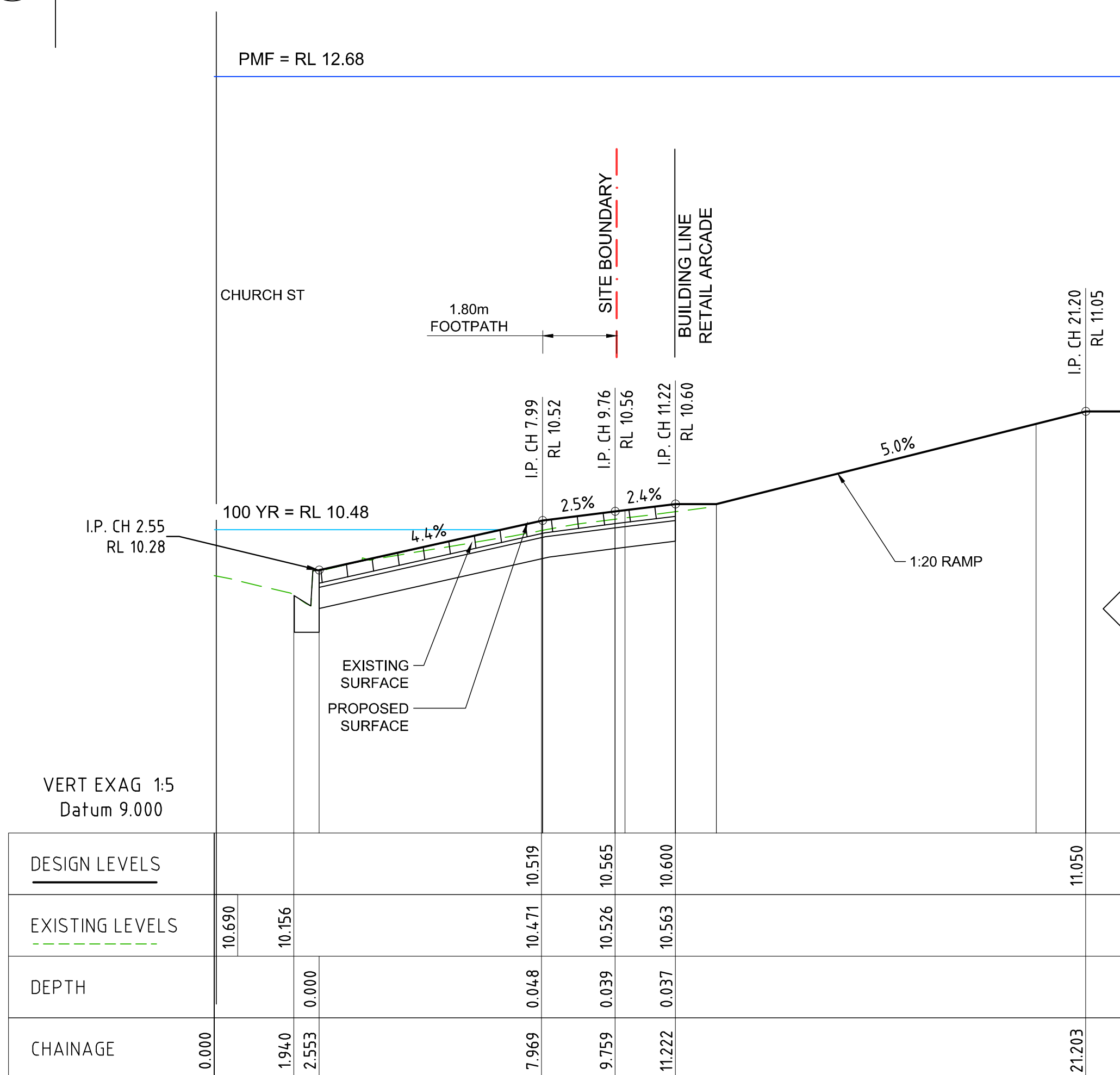
SECTION 12
SCALE 1:100
0100

PMF = RL 12.68



SECTION 14
SCALE 1:100
0100

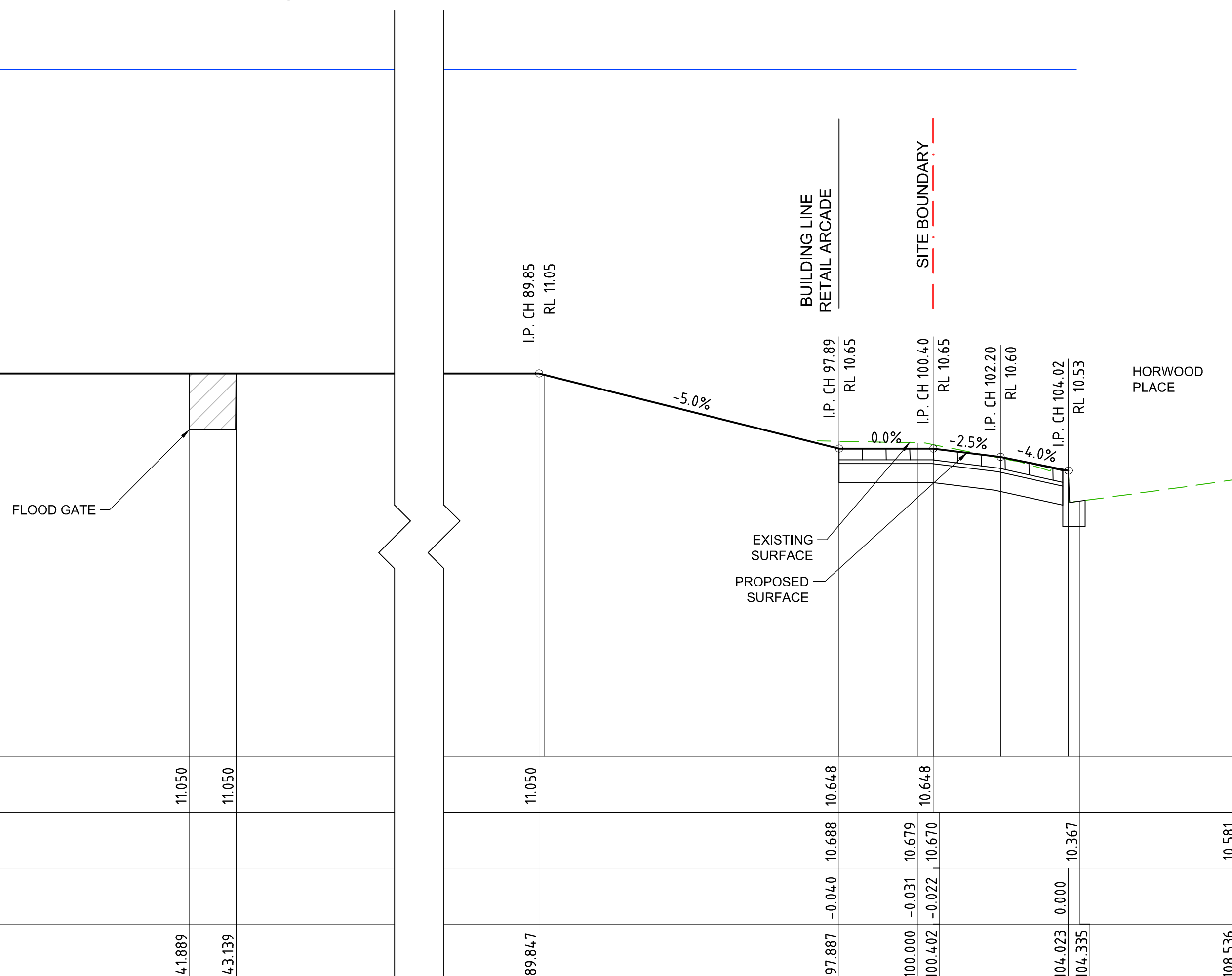
PMF = RL 12.68



SECTION 13
SCALE 1:100
0100

CHURCH STREET CROSS SECTIONS

SCALE 1:100



LEGEND

--- PROPERTY LINE

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PROJECT NUMBER: 5475

DRAWING TITLE

CHURCH STREET
CROSS SECTIONS

SCALE: 1:100@A1

DRAWN BY: JF

CHECKED BY: Q-EJ

DRAWING STATUS

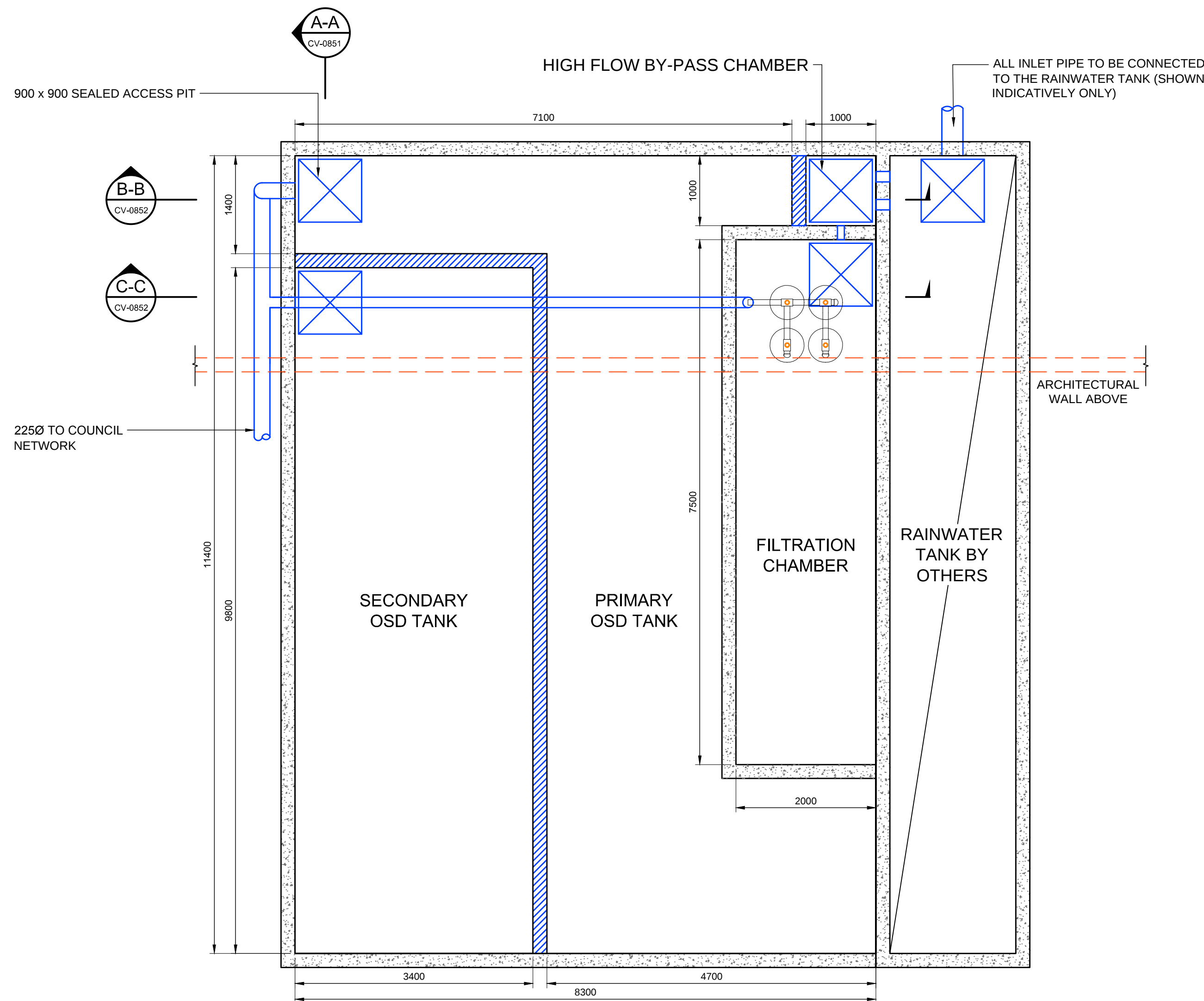
FOR APPROVAL

DRAWING NUMBER

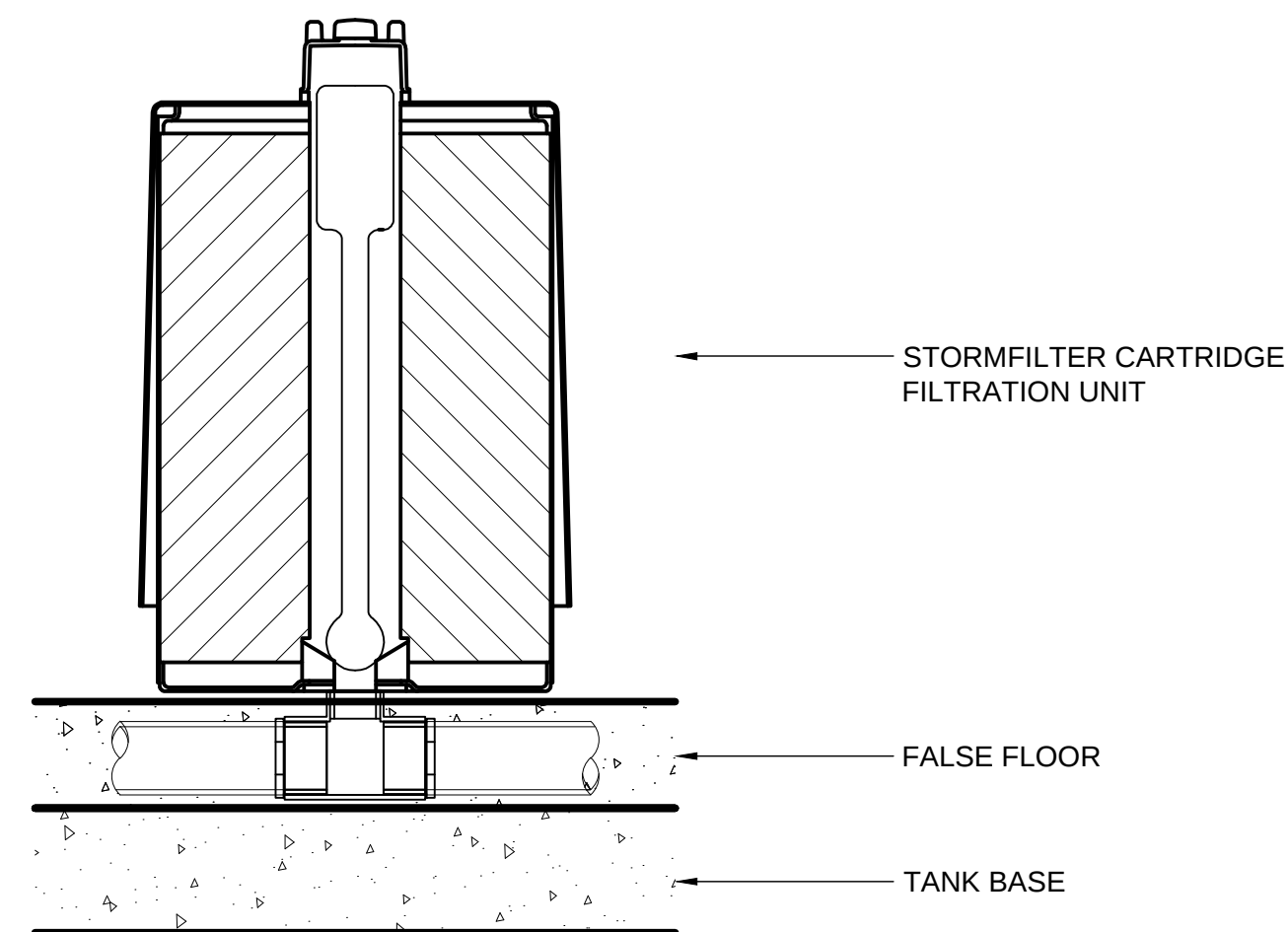
CV-0760

REV.

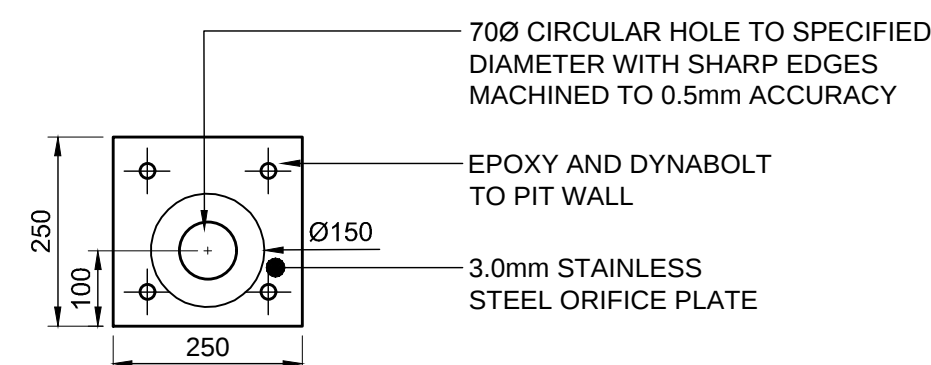
03



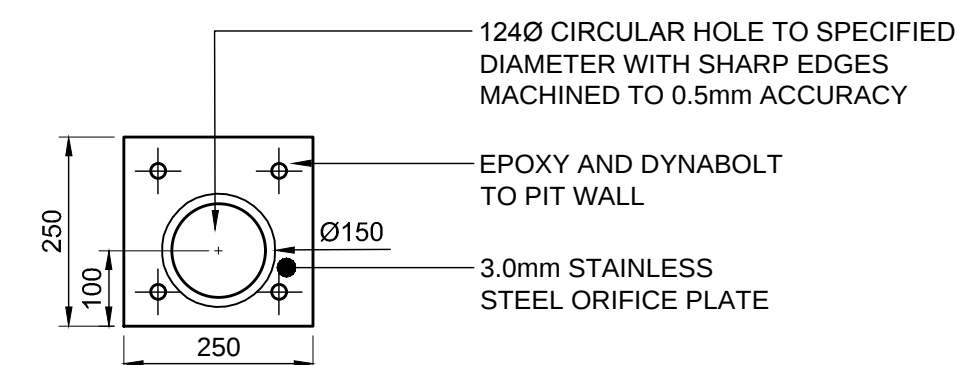
ON-SITE STORMWATER DETENTION PLAN
SCALE 1:50



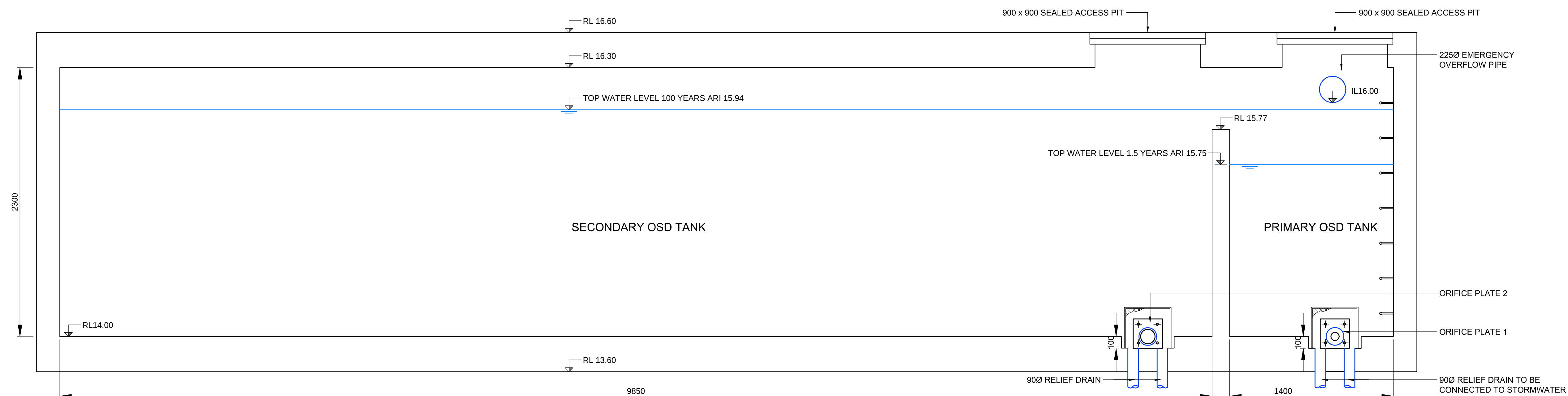
STORMFILTER CARTRIDGE DETAIL
SCALE 1:10



ORIFICE PLATE 1
SCALE 1:10



ORIFICE PLATE 2
SCALE 1:10



SECTION A-A
SCALE 1:20

NOTE
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PROJECT NAME
50 MACQUARIE STREET &
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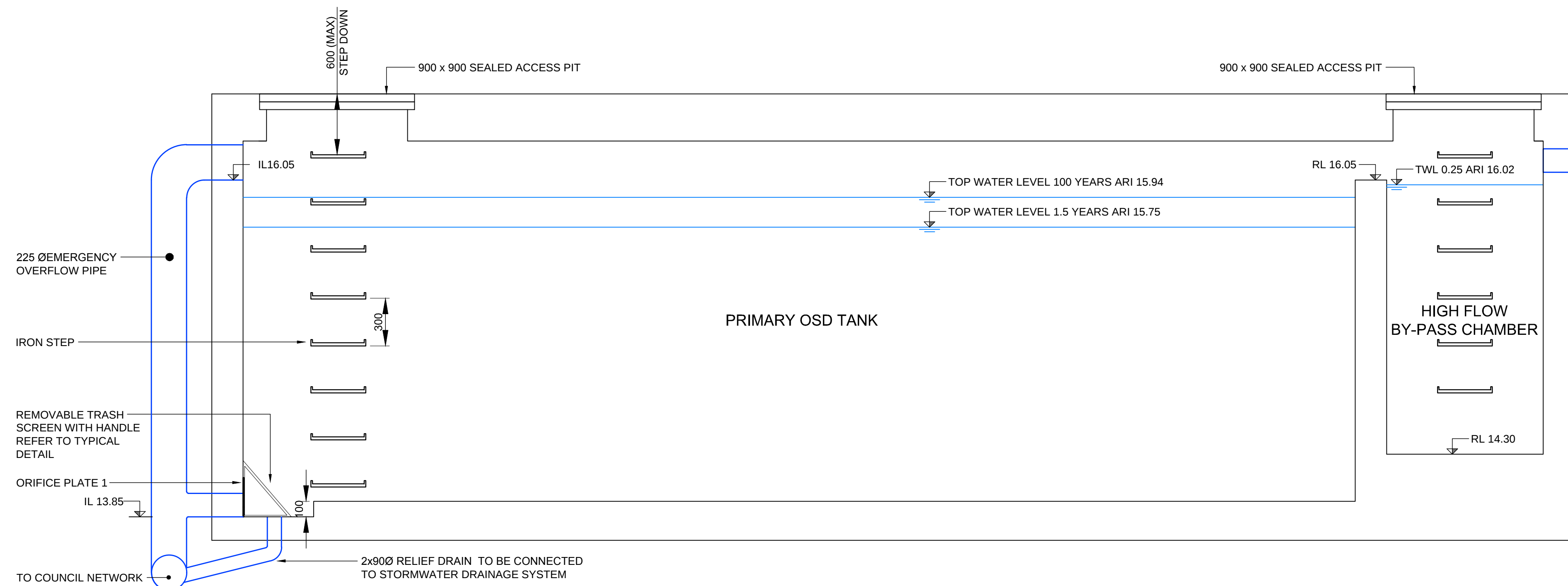
PROJECT NUMBER: 5475

DRAWING TITLE
STORMWATER DETAILS
SHEET 01

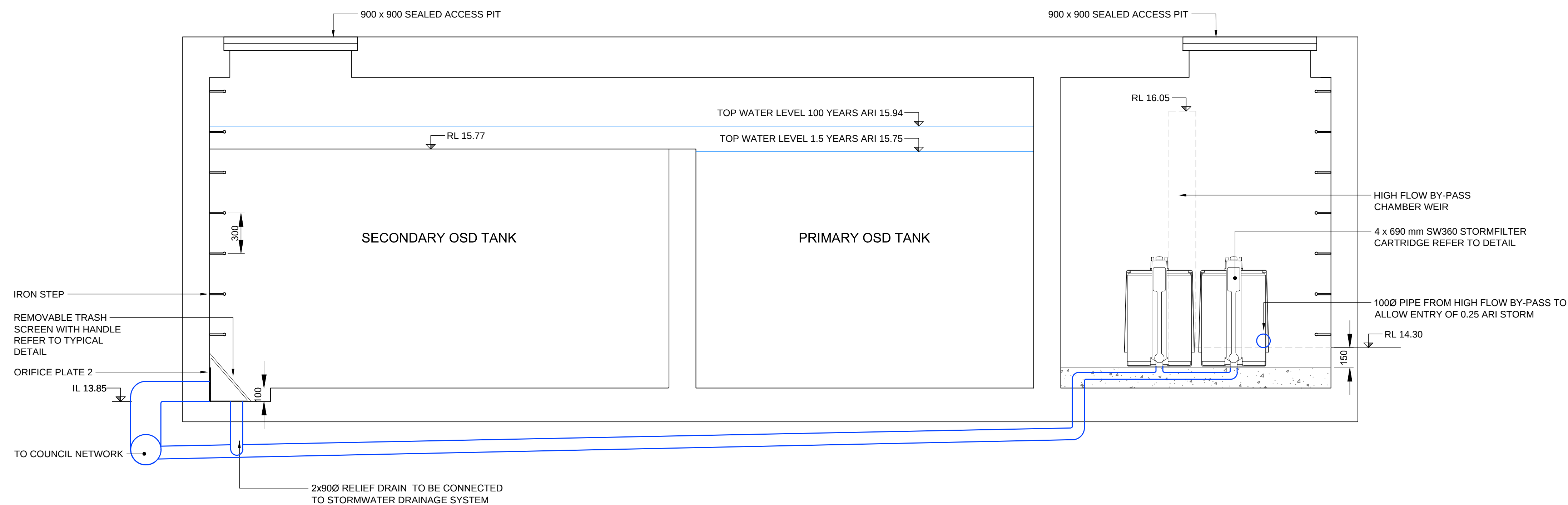
SCALE: 1:50@A1
DRAWN BY: MM
CHECKED BY: OEJ

DRAWING STATUS
FOR APPROVAL

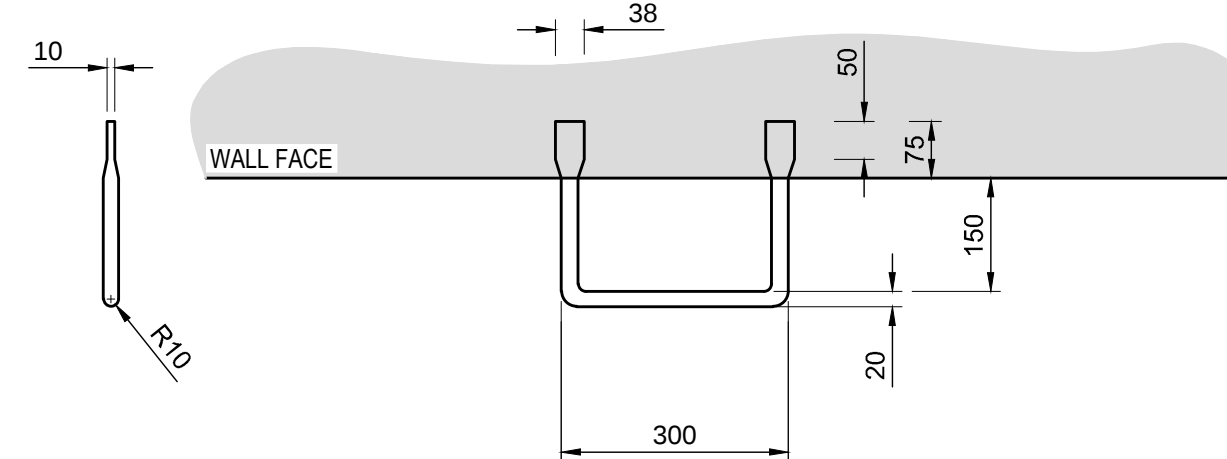
DRAWING NUMBER	REV.
CV-0851	03



SECTION B-B
SCALE 1:20
CV-0851



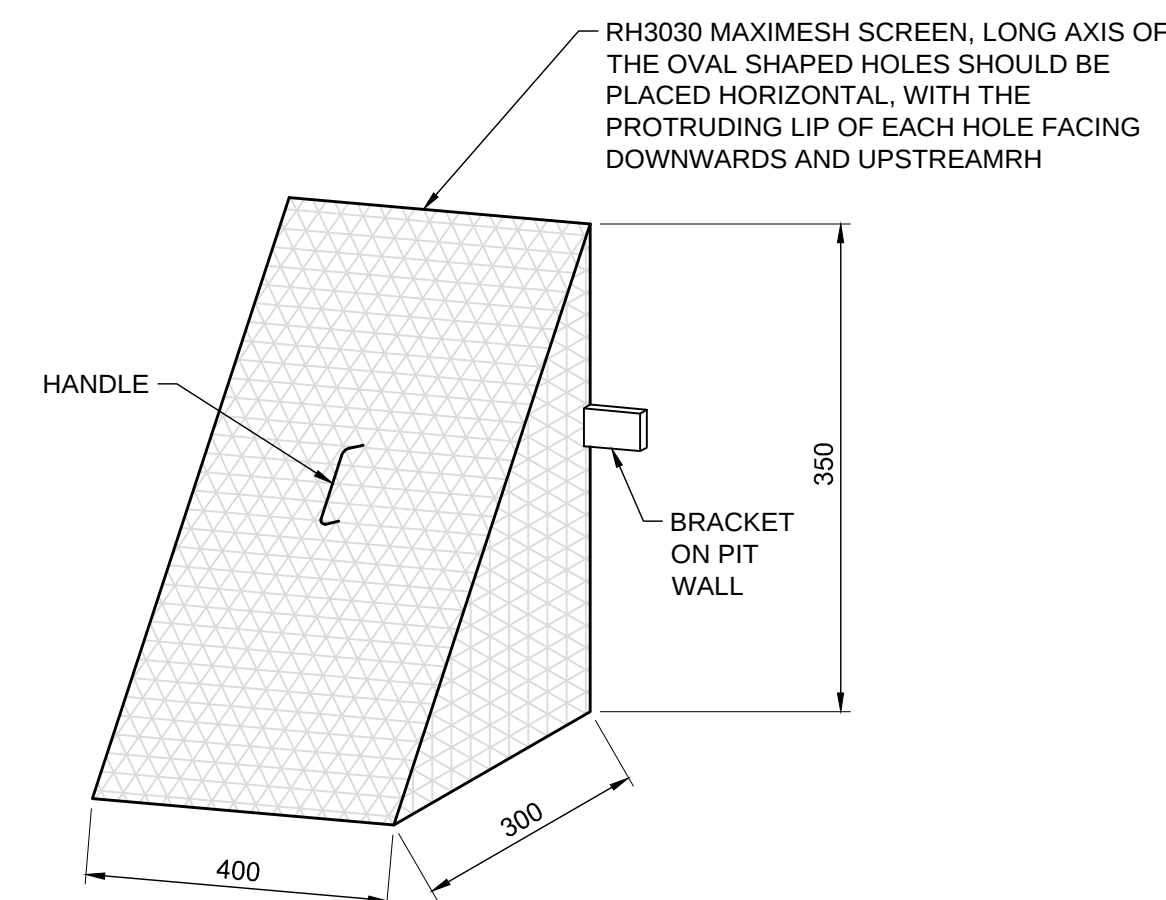
SECTION C-C
SCALE 1:20
CV-0851



TYPICAL IRON STEP DETAIL

SCALE 1:10

- NOTES:**
1. FIRST RUNG MAX 600mm DOWN FROM TOP, THEN SPACED AT 300 CENTRES.
 2. IRON STEP MATERIAL: 20m DIAMETER MILD STEEL, HEAVY GALVANISED.



TYPICAL TRASH SCREEN DETAIL

SCALE 1:10

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PROJECT NUMBER: 5475

DRAWING TITLE

**STORMWATER DETAILS
SHEET 02**

SCALE: NOTED@A1

DRAWN BY: MM

CHECKED BY: OEJ

DRAWING STATUS

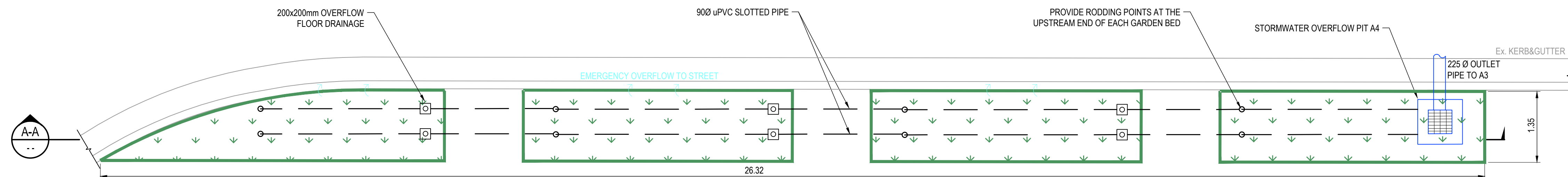
FOR APPROVAL

DRAWING NUMBER

CV-0852

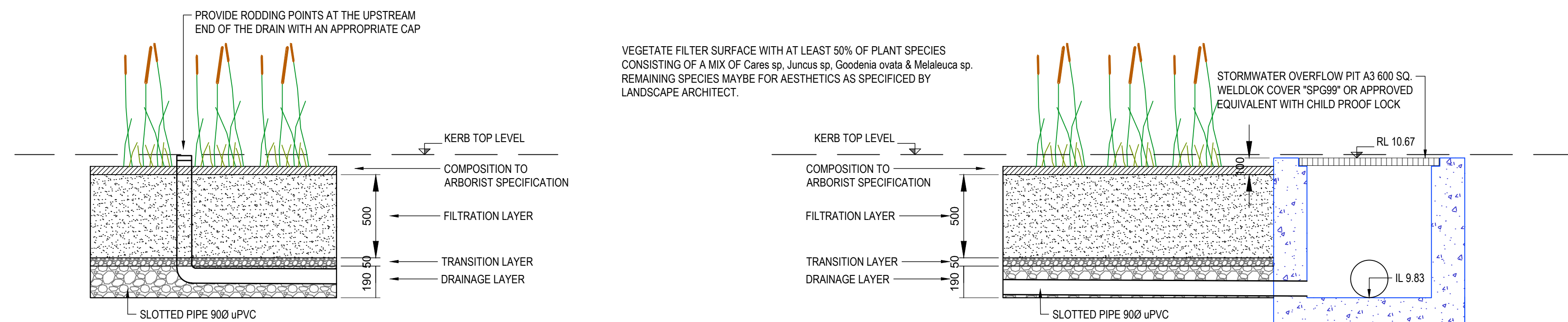
REV.

03



RAIN GARDEN PLAN VIEW

SCALE 1:50



SECTION A-A

SCALE 1:20

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DRAWING TITLE

STORMWATER DETAILS
SHEET 03

SCALE: NOTED@A1

DRAWN BY: MD

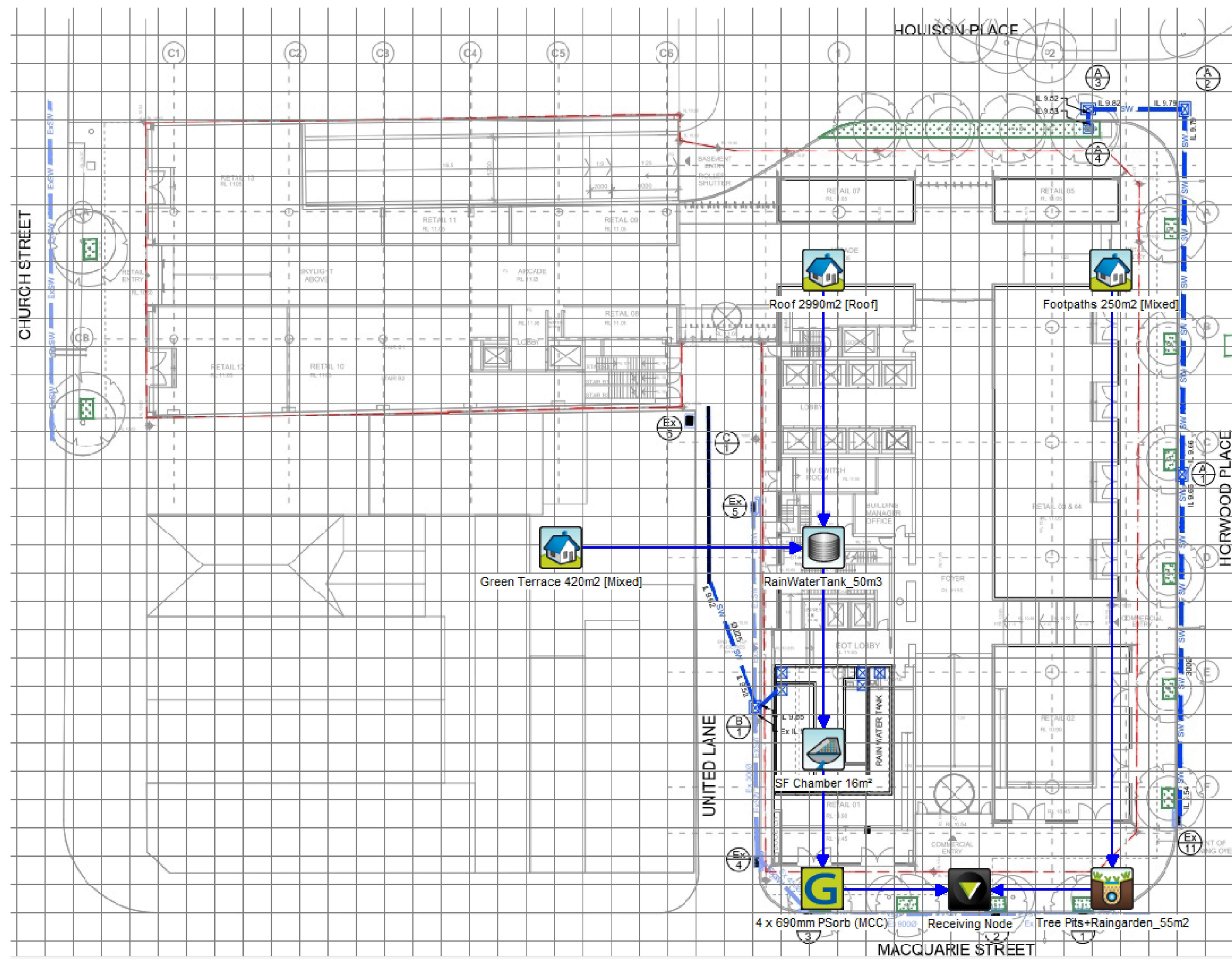
CHECKED BY: MM

DRAWING STATUS

FOR APPROVAL

DRAWING NUMBER
CV-0853

REV.
04



MUSIC MODEL LAYOUT

	SOURCES	RESIDUAL LOAD	% REDUCTION	PARRAMATTA CITY COUNCIL REDUCTION TARGETS [%]	GREEN STAR TARGETS Class C
Flow (ML/yr)	2.52	1.7	32.5	--	--
al Suspended Solids (kg/yr)	102	9.39	90.8	85	90
Total Phosphorus (kg/yr)	0.44	6.66E-02	84.9	60	70
Total Nitrogen (kg/yr)	5.64	1.82	67.7	45	60
Gross Pollutants (kg/yr)	65.3	0	100	90	95

MUSIC MODEL TARGETS AND RESULTS

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220 CHURCH STREET

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DRAWING TITLE
STORMWATER DETAILS
SHEET 04

SCALE: NOTED@A1
DRAWN BY: MD
CHECKED BY: MM

DRAWING STATUS
FOR APPROVAL

DRAWING NUMBER
CV-0854

EV.
03

NOTE:
FOR MUSIC REPORT REFER TO 50
Macquarie St, Parramatta musicLink Report