NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE. ENGINEER TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE ANY WORK PROCEEDS.
3. REFER TO DRAWING **20047-DOW-0000** FOR PROJECT SPECIFICATION.

N

LEGEND

- EXISTING FOUL WATER SEWER
- EXISTING SURFACE WATER
- EXISTING COMBINED SEWER
- EXISTING WATERMAIN
- PROPOSED FOUL SEWER PIPE
- PROPOSED SURFACE WATER PIPE
- PROPOSED COMBINED SEWER
- PROPOSED NEW WATERMAIN
- EXISTING FOUL SEWER MANHOLE
- EXISTING SURFACE WATER MANHOLE
- PROPOSED FOUL SEWER MANHOLE
- PROPOSED SURFACE WATER MANHOLE
- HYDRANT
- A.J. — PROPOSED FOUL A.J.
- A.J. — PROPOSED SURFACE WATER A.J.
- RG. — ROAD GULLY
- BIGT — BACK INLET GULLY TRAP
- ST. — SILT TRAP
- RWP — RAIN WATER PIPE
- SS — SOIL STACK
- YG. — YARD GULLY
- RE — RODDING EYE/ACCESS HATCH
- 99.950 — PROPOSED LEVEL
- 99.950 — EXISTING LEVEL
- WM — WATER METER
- SV — SLUICE VALVE
- TB — THRUST BLOCK
- FMWS — FIRE MAIN WATER SUPPLY
- MWS — METERED WATER SUPPLY

Rev	Date	Amendments	By	chkd
P03	30.09.22	RED & BLUE LINES REMOVED	AG	IC
P02	20.01.21	TITLEBLOCK REVISED	AG	IC
P01	07.12.20	ISSUED FOR PLANNING	AG	IC

PROJECT

PROPOSED HOUSING DEVELOPMENT AT CLONBRONE, LUCAN, DUBLIN 20.

CLIENT

NACUL DEVELOPMENTS Ltd.

DRAWING TITLE

EXISTING SITE LAYOUT AND WATER SERVICES

drawn by: AG	date: 04.02.22	scale: 1:250 @ A1	chk: IC

CLON - DOW - 00 - XX - DR - CE

Project Originator Volume Level Type Role

20047	5000	P03
DOW Project No.	drg. no.	rev.

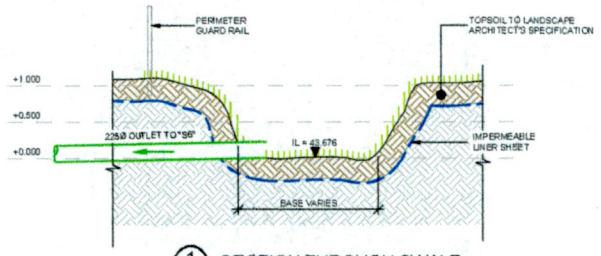
S0 - SUITABLE FOR PLANNING

Suitability Status: Code - Description

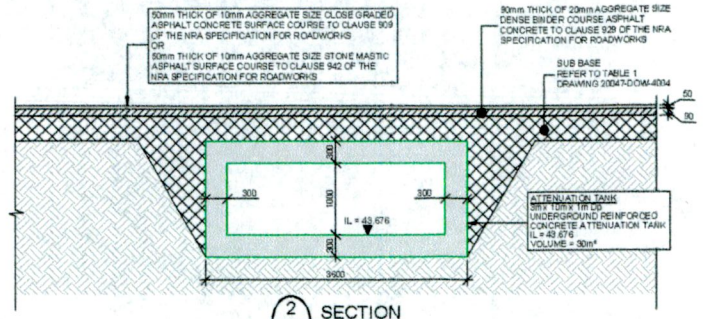
Cashel Business Centre,
Cashel Road, Kimmage, Dublin 12
T 01 4901611
E admin@downesassociates.ie
www.downesassociates.ie

Downes associates
Consulting Structural & Civil Engineers

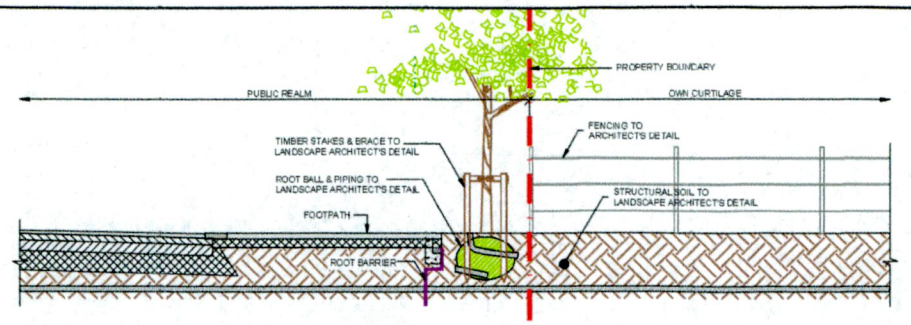
THIS DRAWING IS COPYRIGHT



1 SECTION THROUGH SWALE
Scale: 1:50



2 SECTION
Scale: 1:50



SECTION THROUGH TREE PIT
Scale: 1:50

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS AND ENGINEER'S DRAWINGS.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE. ENGINEER TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE ANY WORK PROCEEDS.
3. REFER TO DRAWING **20047-DOW-0000** FOR PROJECT SPECIFICATION.

N

LEGEND

- EXISTING FOUL WATER SEWER
- EXISTING SURFACE WATER
- EXISTING COMBINED SEWER
- EXISTING WATERMAIN
- PROPOSED FOUL SEWER PIPE
- PROPOSED SURFACE WATER PIPE
- PROPOSED COMBINED SEWER
- PROPOSED NEW WATERMAIN.
- EXISTING FOUL SEWER MANHOLE
- EXISTING SURFACE WATER MANHOLE
- PROPOSED FOUL SEWER MANHOLE
- PROPOSED SURFACE WATER MANHOLE
- HYDRANT
- AJ. PROPOSED FOUL A.J.
- AJ. PROPOSED SURFACE WATER A.J.
- RG. ROAD GULLY
- BIGT BACK INLET GULLY TRAP
- ST. SILT TRAP
- RWP RAIN WATER PIPE
- SS SOIL STACK
- YG YARD GULLY
- RE RODDING EYE/ACCESS HATCH
- 99.950 PROPOSED LEVEL
- 99.950 EXISTING LEVEL
- WM WATER METER
- SV SLUICE VALVE
- TB THRUST BLOCK
- WB WATER BUTT
- FMWS FIRE MAIN WATER SUPPLY
- MWS METERED WATER SUPPLY

FINISHES LEGEND

- DENOTES NEW MACADAM ROAD SURFACING. REFER TO DRAWING 20047-DOW-4004 FOR DETAILS — 581.40m² APPROX.
- DENOTES NEW FOOTPATH. REFER TO DRAWING 20047-DOW-4005 FOR DETAILS — 196.94m² APPROX.
- DENOTES NEW PERMEABLE PAVING. REFER TO DRAWING 20047-DOW-4005 FOR DETAILS — 680.75m² APPROX.
- DENOTES NEW SOFT LANDSCAPING TO ARCHITECT'S DETAIL. — 1059.40m² APPROX.

SURFACE WATER MANHOLE SCHEDULE

REF.	COVER LEVEL	INVERT LEVEL	COMMENTS
S1	45.773	44.351	
S2	45.733	44.391	
S3	45.626	44.235	
S4	45.507	44.082	
S5	45.346	43.754	
S6	45.102	43.430	HYDROBRAKE MH
S7	44.859	42.910	
S8	44.076	42.258	
S10	45.445	44.438	
S11	43.424	42.196	EXISTING MH
DEPTHAREA 1	45.000	43.676	

FOUL SEWER MANHOLE SCHEDULE

REF.	COVER LEVEL	INVERT LEVEL	COMMENTS
F1	45.828	44.479	
F2	45.647	45.876	
F3	45.512	43.681	
F4	45.322	43.385	
F5	45.080	42.259	
F6	44.509	42.136	EXISTING MH

X 5001 TYPICAL LOCAL DRAINAGE DETAILS
Scale: 1:100

Rev	Date	Amendments	by	chkd
P04	30.09.22	TREE PIT DETAILS ADDED	AG	IC
P03	20.07.22	SITE LAYOUT & DRAINAGE REVISED	AG	IC
P02	20.01.21	TITLEBLOCK REVISED	AG	IC
P01	07.12.20	ISSUED FOR PLANNING	AG	IC

PROJECT
PROPOSED HOUSING DEVELOPMENT AT CLONBRONE, LUCAN, DUBLIN 20.

CLIENT
NACUL DEVELOPMENTS Ltd.

DRAWING TITLE
PROPOSED SITE LAYOUT AND WATER SERVICES

drawn by: AG	date: 04.02.22	scale: 1:250 @ A1	chk: IC

Project	Originator	Volume	Level	Type	Role
CLON	DOW	00	XX	DR	CE

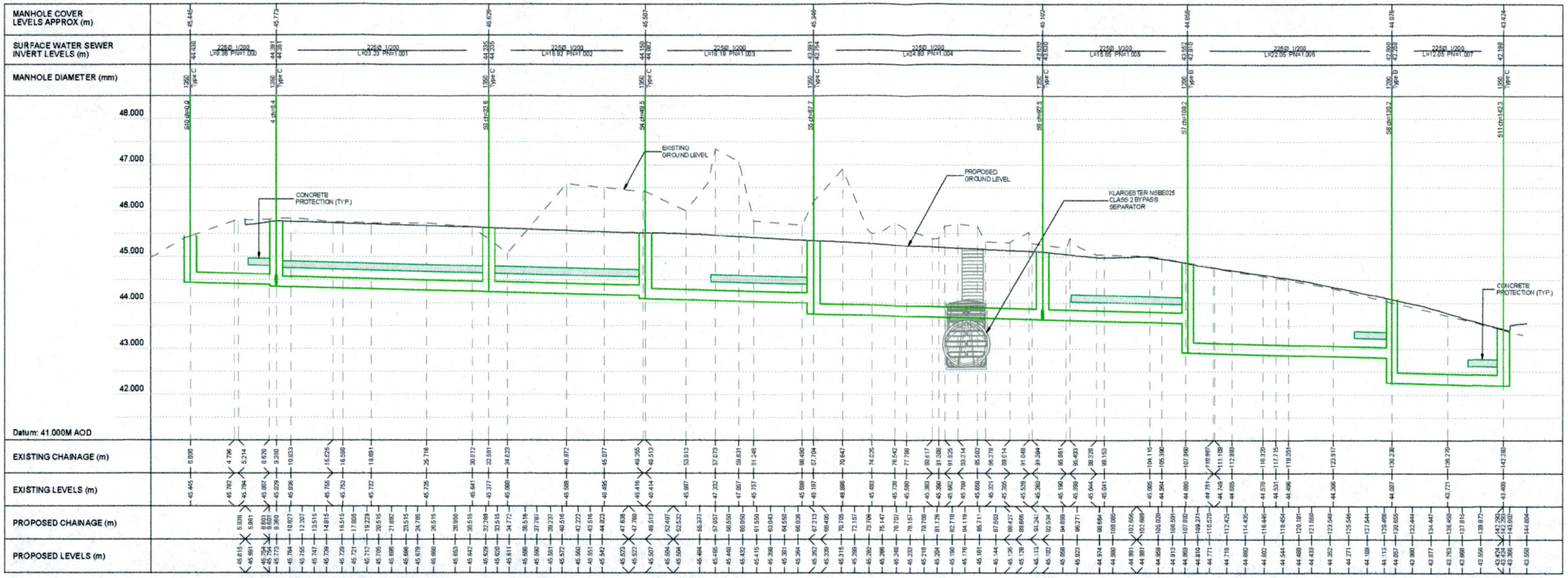
DOW Project No.	drg. no.	rev.
20047	5001	P04

S0 - SUITABLE FOR PLANNING
Suitability Status: Code - Description

Cashel Business Centre,
Cashel Road, Kimmage, Dublin 12
T 01 4901611
E admin@downesassociates.ie
www.downesassociates.ie

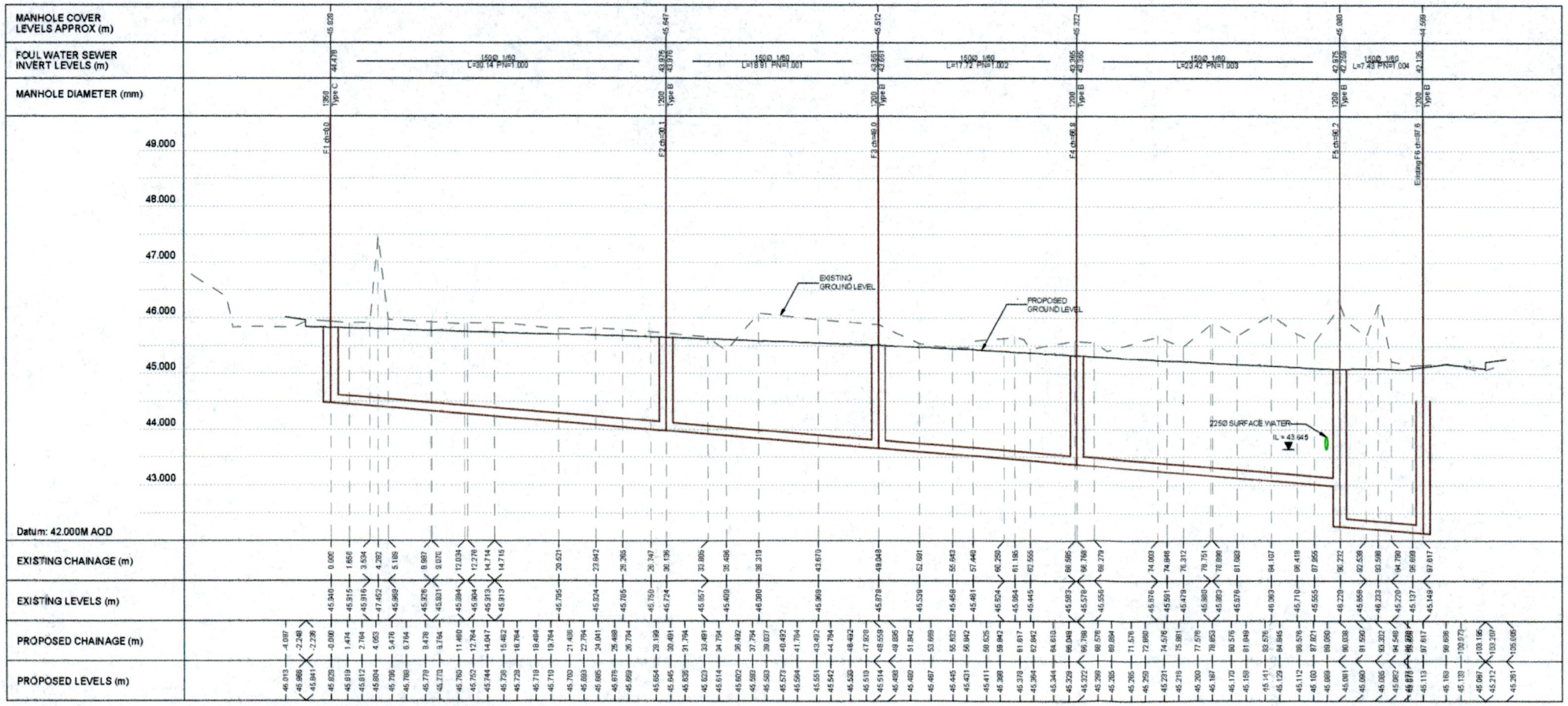
Downes associates
Consulting Structural & Civil Engineers

THIS DRAWING IS COPYRIGHT



PROPOSED SURFACE WATER LONGITUDINAL SECTION

Horizontal Scale: 1:250
Vertical Scale: 1:50



PROPOSED FOUL SEWER LONGITUDINAL SECTION

Horizontal Scale: 1:250
Vertical Scale: 1:50

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE. ENGINEER TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE ANY WORK PROCEEDS.
3. REFER TO DRAWING **20047-DOW-0000** FOR PROJECT SPECIFICATION.

Rev	Date	Amendments	by	chkd
P03	30.09.22	DRAINAGE REVISED	AG	IC
P02	20.01.21	TITLEBLOCK REVISED	AG	IC
P01	07.12.20	ISSUED FOR PLANNING	AG	IC

PROJECT
PROPOSED HOUSING DEVELOPMENT AT CLONBRONE, LUCAN, DUBLIN 20.

CLIENT
NACUL DEVELOPMENTS Ltd.

DRAWING TITLE
PROPOSED LONGITUDINAL DRAINAGE SECTIONS

drawn by: AG | date: 30.11.20 | scale: 1:250 @ A1 | chk: IC

20047 - DOW - 00 - XX - DR - CE
Project Originator Volume Level Type Role

20047	5002	P03
DOW Project No.	drg. no	rev.

S0 - SUITABLE FOR PLANNING
Suitability Status: Code - Description

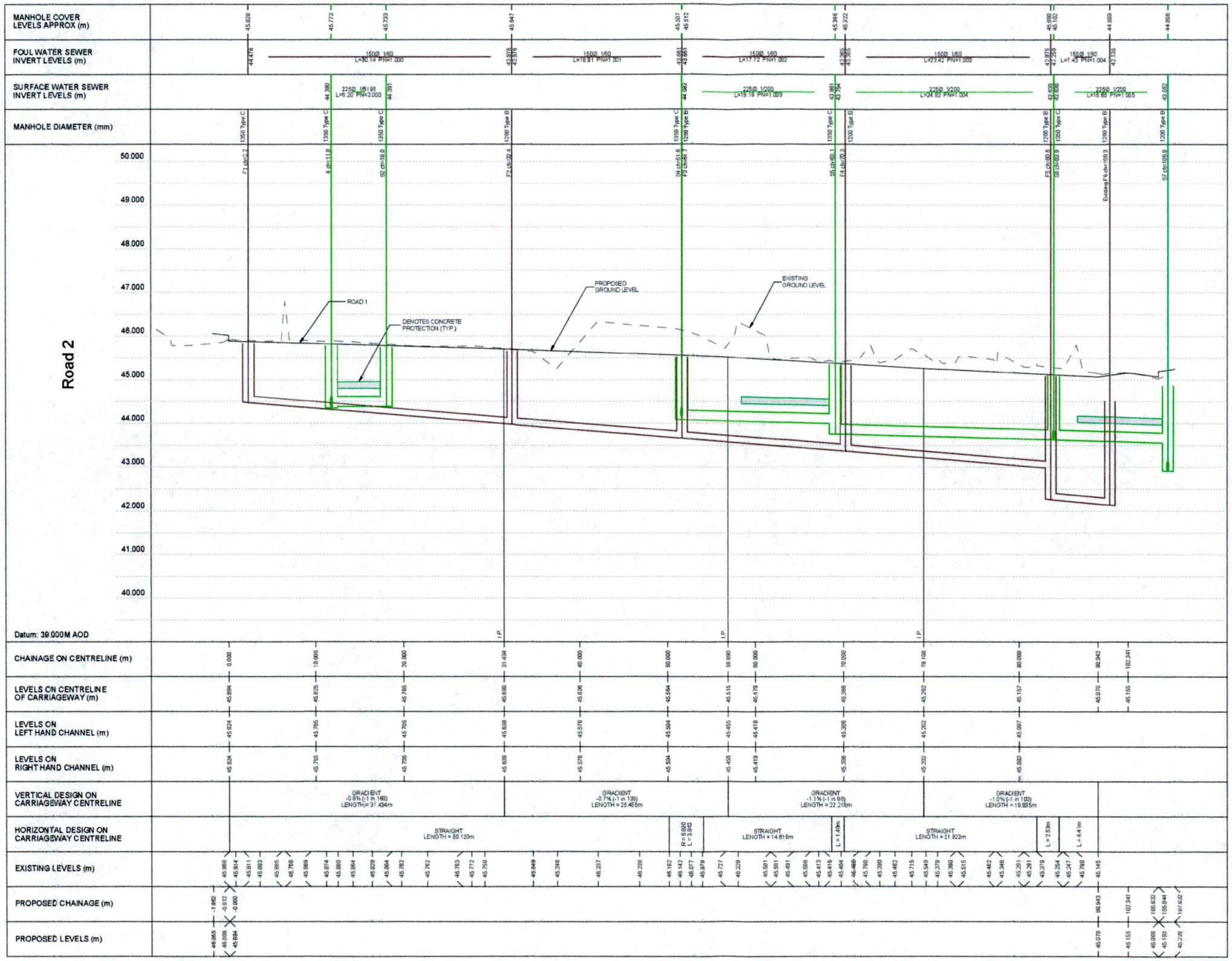
Cashel Business Centre,
Cashel Road, Kimmage, Dublin 12
T 01 4901611
E admin@downesassociates.ie
www.downesassociates.ie

Downes associates
Consulting Structural & Civil Engineers

THIS DRAWING IS COPYRIGHT

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE. ENGINEER TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE ANY WORK PROCEEDS.
3. REFER TO DRAWING **20047-C0W-0000** FOR PROJECT SPECIFICATION.



PROPOSED ROADWAY LONGITUDINAL SECTION

Horizontal Scale: 1:250
Vertical Scale: 1:50

Rev	Date	Amendments	by	chkd
P02	30.01.22	SECTION REVISED	AG	IC
P01	07.02.22	ISSUED FOR PLANNING	AG	IC

PROJECT
PROPOSED HOUSING DEVELOPMENT AT CLONBRONE, LUCAN, DUBLIN 20.

CLIENT
NACUL DEVELOPMENTS Ltd.

DRAWING TITLE
PROPOSED LONGITUDINAL ROAD SECTION

drawn by: AG | date: 30.11.20 | scale: 1:250 @ A1 | chk: IC

20047 - DOW - 00 - XX - DR - CE
Project | Originator | Volume | Level | Type | Role

20047 (DOW Project No.) | 5003 (drg. no.) | P02 (rev.)

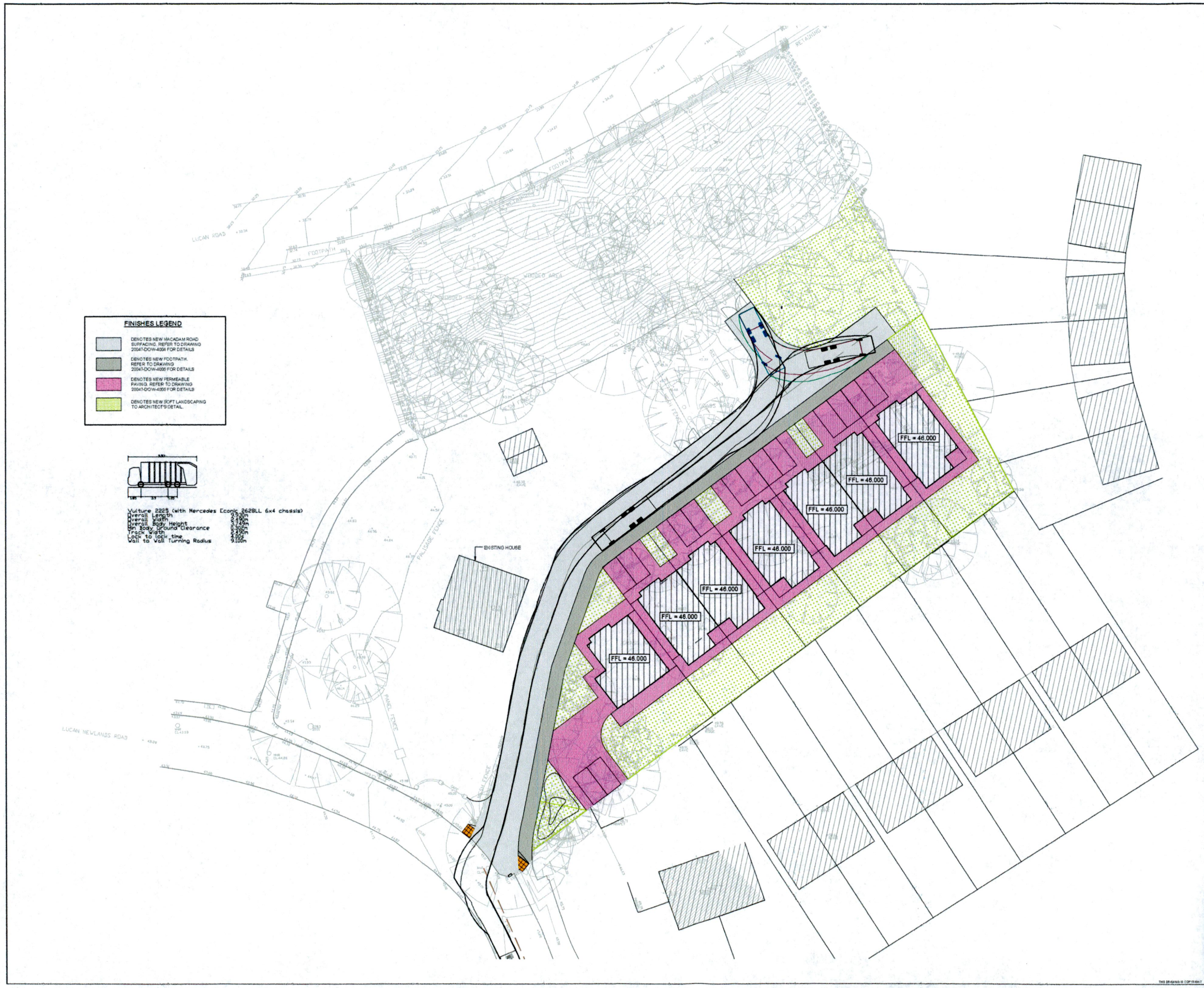
S0 - SUITABLE FOR PLANNING
Suitability Status Code - Description

Cashel Business Centre,
Cashel Road, Kimmage, Dublin 12
T 01 4901611
E admin@downesassociates.ie
www.downesassociates.ie

Downes associates
Consulting Structural & Civil Engineers

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE. ENGINEER TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE ANY WORK PROCEEDS.
3. REFER TO DRAWING **20047-DOW-0000** FOR PROJECT SPECIFICATION.



Rev	Date	Amendments	by	chkd
P01	30.03.22	ISSUED FOR PLANNING	AG	IC

PROJECT

PROPOSED HOUSING DEVELOPMENT AT CLONBRONE, LUCAN, DUBLIN 20.

CLIENT

NACUL DEVELOPMENTS Ltd.

DRAWING TITLE

PROPOSED SWEPT PATH ANALYSIS REFUSE VEHICLE

drawn by: AG | date: 04.03.22 | scale: 1:250 @A1 | chk: IC

CLON - DOW - 00 - XX - DR - CE

Project	Originator	Volume	Level	Type	Role

20047	5004	P01
DOW Project No.	drg. no.	rev.

S0 - SUITABLE FOR PLANNING

Suitability Status: Code - Description

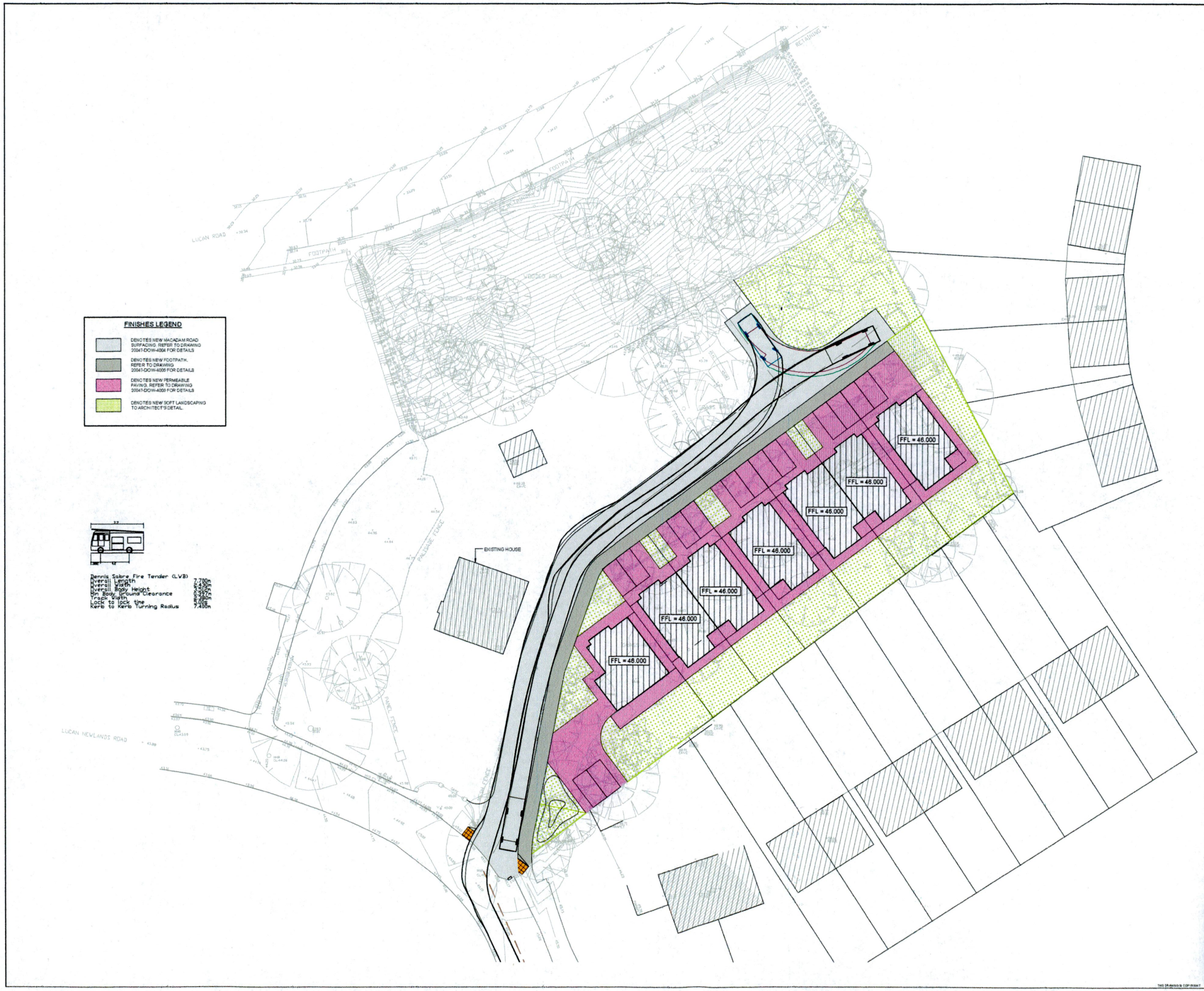
Cashel Business Centre,
Cashel Road, Kimmage, Dublin 12
T 01 4901611
E admin@downesassociates.ie
www.downesassociates.ie

Downes associates
Consulting Structural & Civil Engineers

THIS DRAWING IS COPYRIGHT

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE. ENGINEER TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE ANY WORK PROCEEDS.
3. REFER TO DRAWING **20047-DOW-0000** FOR PROJECT SPECIFICATION.



Rev	Date	Amendments	by	chkd
P01	30.02.22	ISSUED FOR PLANNING	AG	IC

PROJECT

PROPOSED HOUSING DEVELOPMENT AT CLONBRONE, LUCAN, DUBLIN 20.

CLIENT

NACUL DEVELOPMENTS Ltd.

DRAWING TITLE

PROPOSED SWEPT PATH ANALYSIS FIRE TENDER

drawn by: AG | date: 04.02.22 | scale: 1:250 @ A1 | chk: IC

Project	Originator	Volume	Level	Type	Role
CLON	DOW	00	XX	DR	CE

DOW Project No.	drg. no.	rev.
20047	5005	P01

S0 - SUITABLE FOR PLANNING

Suitability Status: Code - Description

Cashel Business Centre,
Cashel Road, Kimmage, Dublin 12
T 01 4901611
E admin@downesassociates.ie
www.downesassociates.ie

Downes associates
Consulting Structural & Civil Engineers

THIS DRAWING IS COPYRIGHT

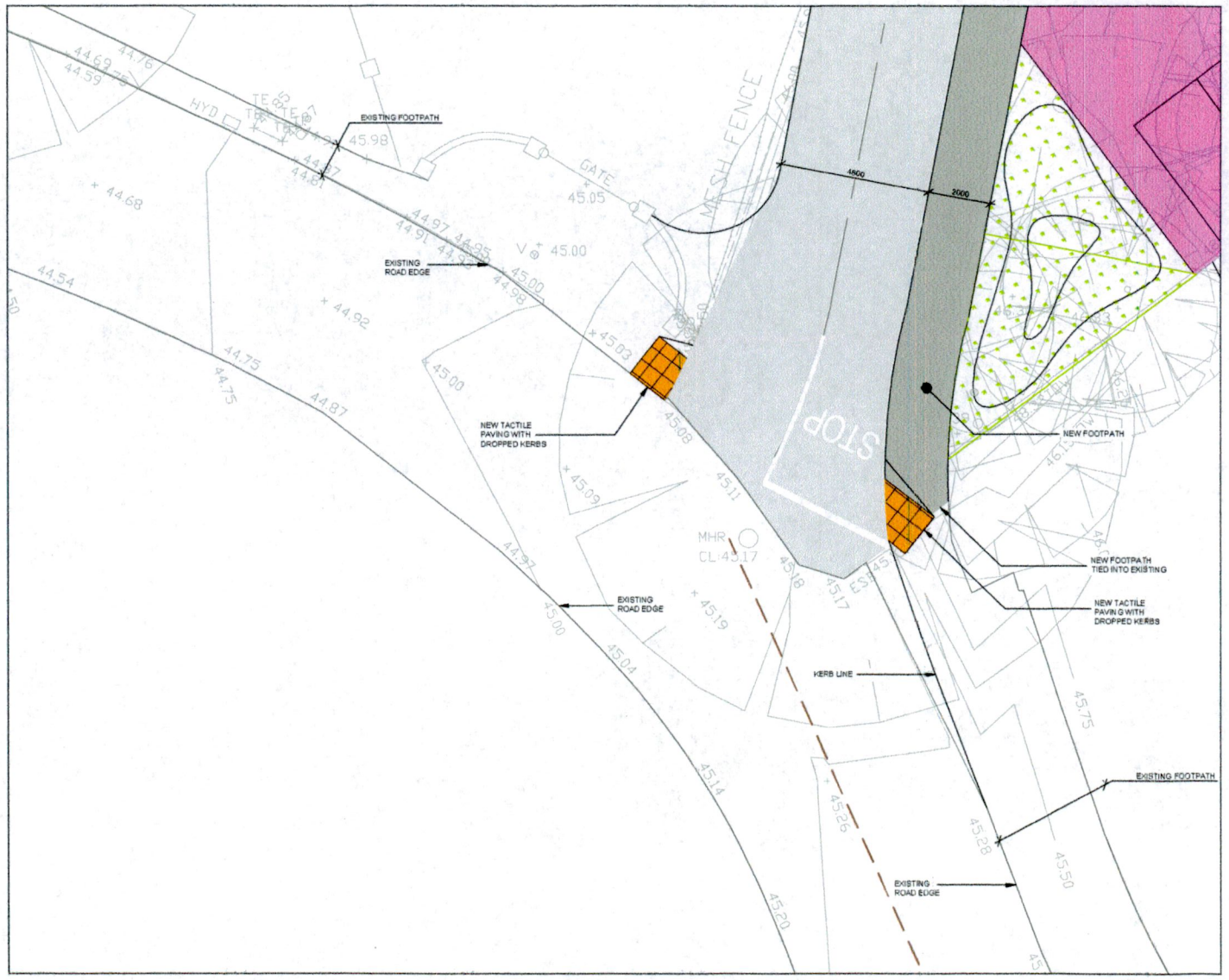
NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE. ENGINEER TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE ANY WORK PROCEEDS.
3. REFER TO DRAWING **20047-DOW-0000** FOR PROJECT SPECIFICATION.

FINISHES LEGEND

- DENOTES NEW MACADAM ROAD SURFACING. REFER TO DRAWING 20047-DOW-4004 FOR DETAILS — 581.40m² APPROX.
- DENOTES NEW FOOTPATH. REFER TO DRAWING 20047-DOW-4005 FOR DETAILS — 196.94m² APPROX.
- DENOTES NEW PERMEABLE PAVING. REFER TO DRAWING 20047-DOW-4005 FOR DETAILS — 580.75m² APPROX.
- DENOTES NEW SOFT LANDSCAPING TO ARCHITECT'S DETAIL. — 1058.40m² APPROX.

SIGHTLINES
Scale: 1:200



PROPOSED ENTRANCE WORKS
Scale: 1:100

Rev	Date	Amendments	by	chkd
P02	30.09.22	MINOR REVISIONS	AG	IC
P01	20.07.22	ISSUED FOR PLANNING	AG	IC

PROJECT
PROPOSED HOUSING DEVELOPMENT AT CLONBRONE, LUCAN, DUBLIN 20.

CLIENT
NACUL DEVELOPMENTS Ltd.

DRAWING TITLE
PROPOSED SIGHTLINES & ENTRANCE WORKS

drawn by: AG | date: 04.02.22 | scale: AS SHOWN @ A1 | chk: IC

CLON - DOW - 00 - XX - DR - CE
Project | Originator | Volume | Level | Type | Role

20047	5006	P02
DOW Project No.	drg. no.	rev.

S0 - SUITABLE FOR PLANNING
Suitability Status: Code - Description

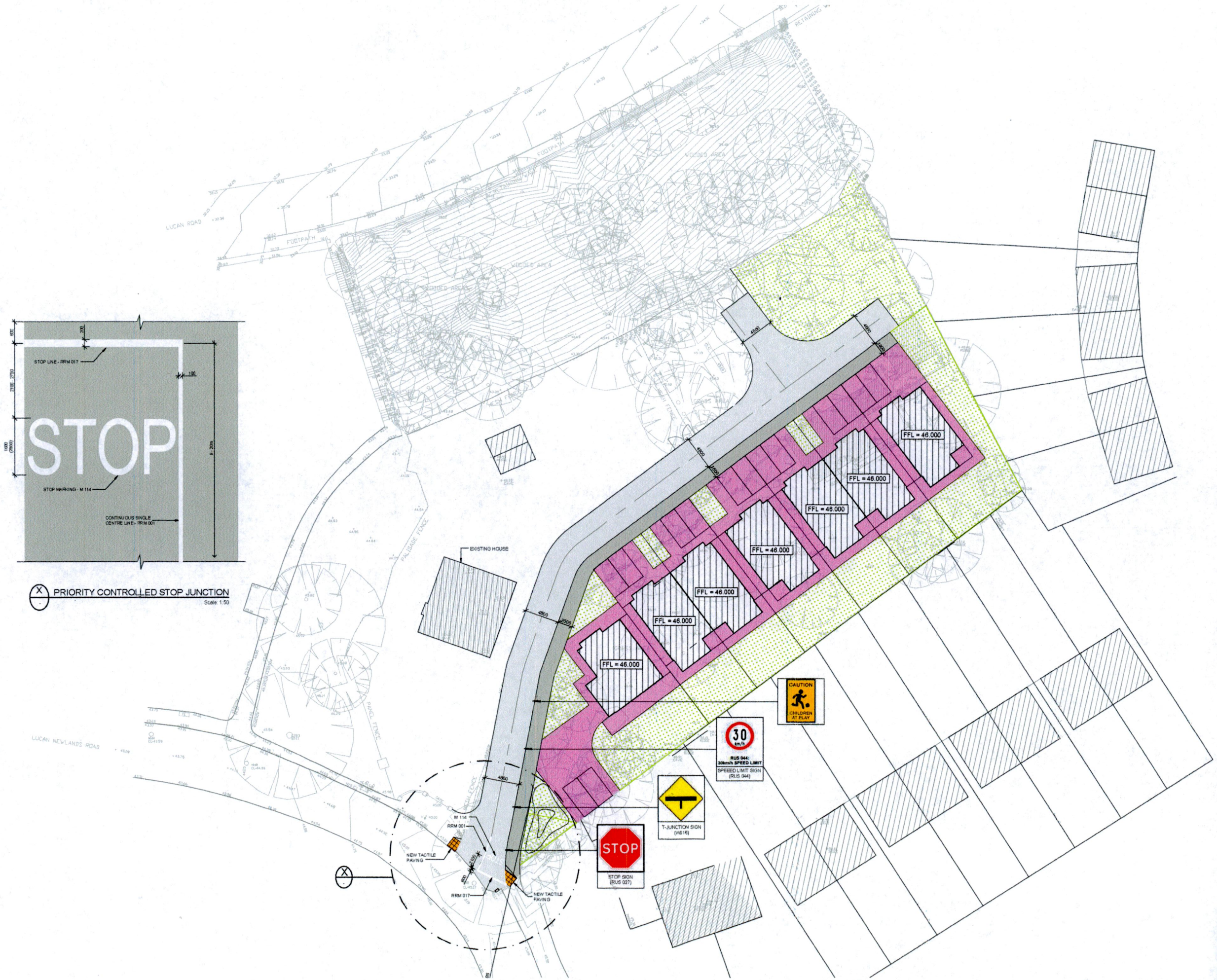
Cashel Business Centre,
Cashel Road, Kimmage, Dublin 12
T 01 4901611
E admin@downesassociates.ie
www.downesassociates.ie

Downes associates
Consulting Structural & Civil Engineers

THIS DRAWING IS COPYRIGHT

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE. ENGINEER TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE ANY WORK PROCEEDS.
3. REFER TO DRAWING **20047-DOW-0000** FOR PROJECT SPECIFICATION.



FINISHES LEGEND

581.40m² APPROX.	DENOTES NEW MACADAM ROAD SURFACING. REFER TO DRAWING 20047-DOW-4004 FOR DETAILS
196.94m² APPROX.	DENOTES NEW FOOTPATH. REFER TO DRAWING 20047-DOW-4005 FOR DETAILS
580.75m² APPROX.	DENOTES NEW PERMEABLE PAVING. REFER TO DRAWING 20047-DOW-4006 FOR DETAILS
1059.40m² APPROX.	DENOTES NEW SOFT LANDSCAPING TO ARCHITECT'S DETAIL.

Rev	Date	Amendments	by	chkd
P02	30.09.22	MINOR REVISIONS	AG	IC
P01	30.07.22	ISSUED FOR PLANNING	AG	IC

PROJECT
PROPOSED HOUSING DEVELOPMENT AT CLONBRONE, LUCAN, DUBLIN 20.

CLIENT
NACUL DEVELOPMENTS Ltd.

DRAWING TITLE
PROPOSED SIGNAGE & ROAD MARKINGS

drawn by: AG | date: 30.08.22 | scale: 1:250 @ A1 | chk: IC

CLON - DOW - 00 - XX - DR - CE
Project Originator Volume Level Type Role

20047	5007	P02
DOW Project No.	drg. no.	rev.

S0 - SUITABLE FOR PLANNING
Suitability Status: Code - Description

Cashel Business Centre,
Cashel Road, Kimmage, Dublin 12
T 01 4901611
E admin@downesassociates.ie
www.downesassociates.ie

Downes associates
Consulting Structural & Civil Engineers