

Appendix A – 2011 Scheme Designs

- XC187, Fantstown;
- XC201, Thomastown;
- XC209, Ballyhay;
- XC212, Ballycoskery;
- XC215, Shinanagh;
- XC219, Buttevant.

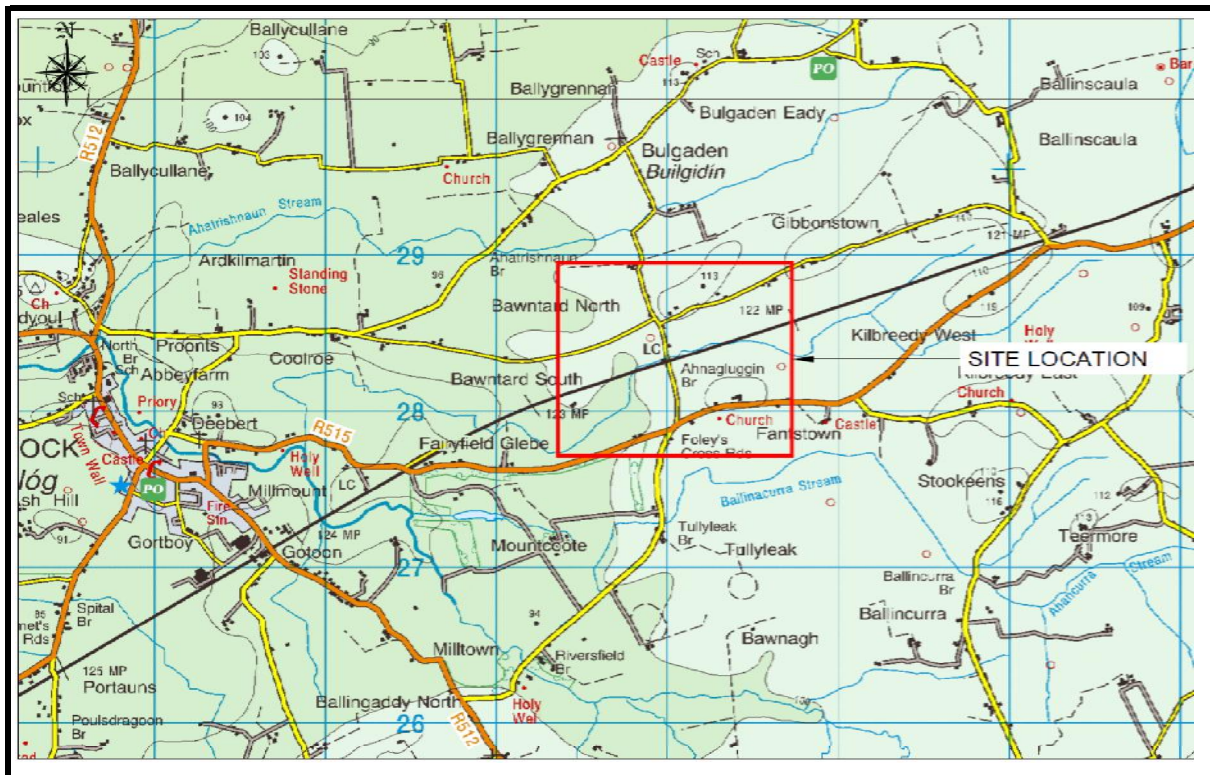
XC187, Pontoon, Fanstown, Co. Limerick

	Description	Northbound	Southbound	Total /Average
Pedestrians	Adult	2	0	2
	Children	0	0	0
	Total	2	0	2
Vehicles	PCL/MCL	0	2	2
	Cars and LGV's	7	6	13
	HGV's	0	0	0
	Buses	0	0	0
	Total AADT	7	8	15
Speeds	Max	30.6	35.8	33.2
	Min	8.2	11.5	9.85
	Mean	22	24.3	23.15
	85% Speed	0	0	0

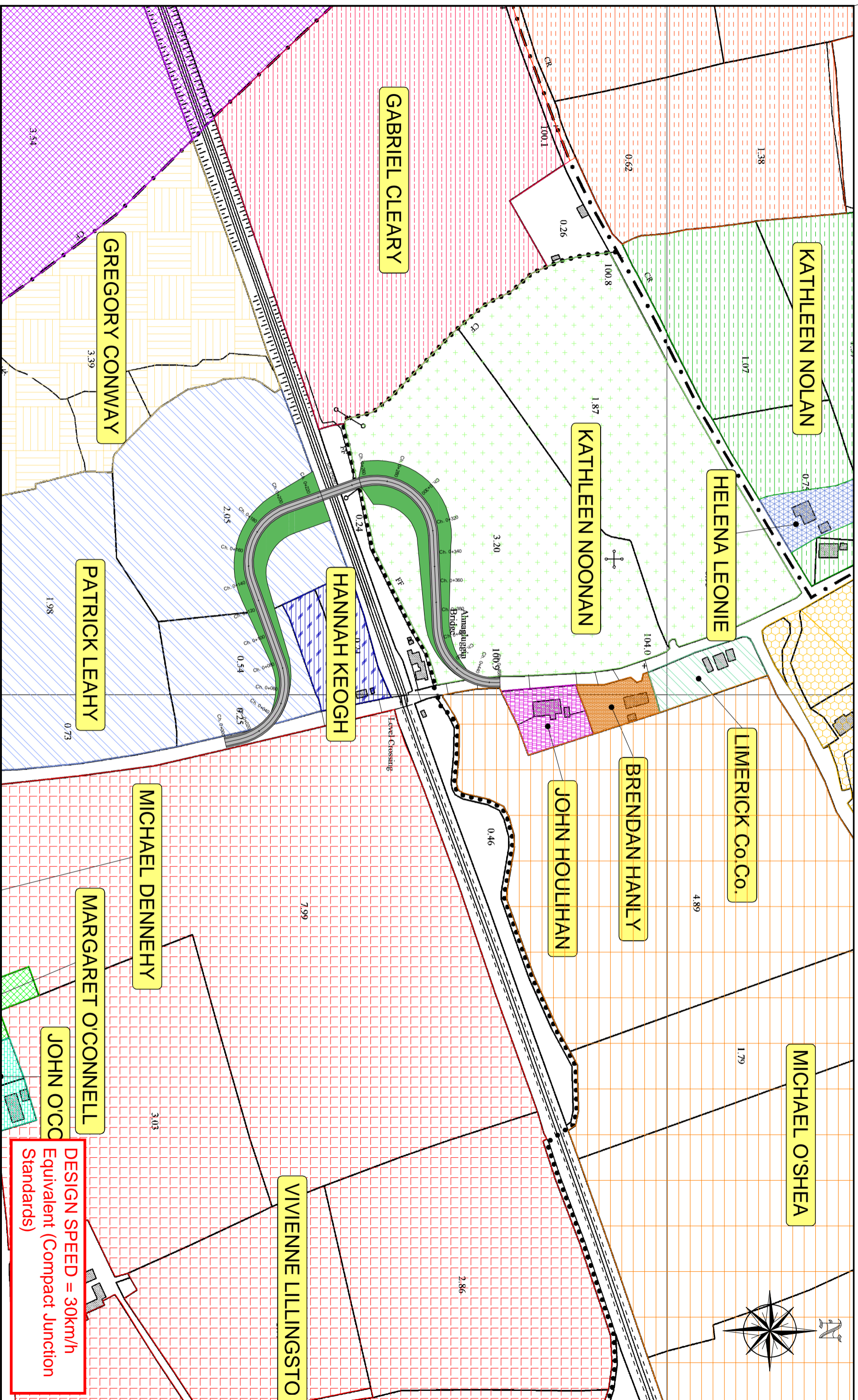
85% Speed - Only Mean available 23.15

Design Speed DMRB Below 42


Selected Design Speed 30 (Comp Junct)



Note: Selected Design Speed should be 1 Design Speed above the Posted Speed Limit - i.e. 70 km/h Design Speed for a 60 km/h Limit.



No.	Revision	Date	By	Checked	App'd


Roughan & O'Donovan
 Consulting Engineers
Civil - Structural - Transportation - Environmental

Arena House, Arena Road,
 Sandymount, Dublin 18,
 Tel.: +353 1 294 0800
 Fax: +353 1 294 0820
 e-mail: info@rod.ie
 www.roughanodonovan.com

Designed: S.B. Checked: M.K. Approved: M.K. Status: PRELIMINARY

Project Title	IARNROD EIREANN LEVEL CROSSINGS PROJECT XC187, FANSTOWN, CO. LIMERICK		
Drawing Title	ROUTE OPTION 1 LANDOWNERSHIP		
Drawn	M.H.	Job No.	98.175.356
Scale	1:2500 @ A3	Date	JUN 11
Rev.		Drawing No.	SK356-010

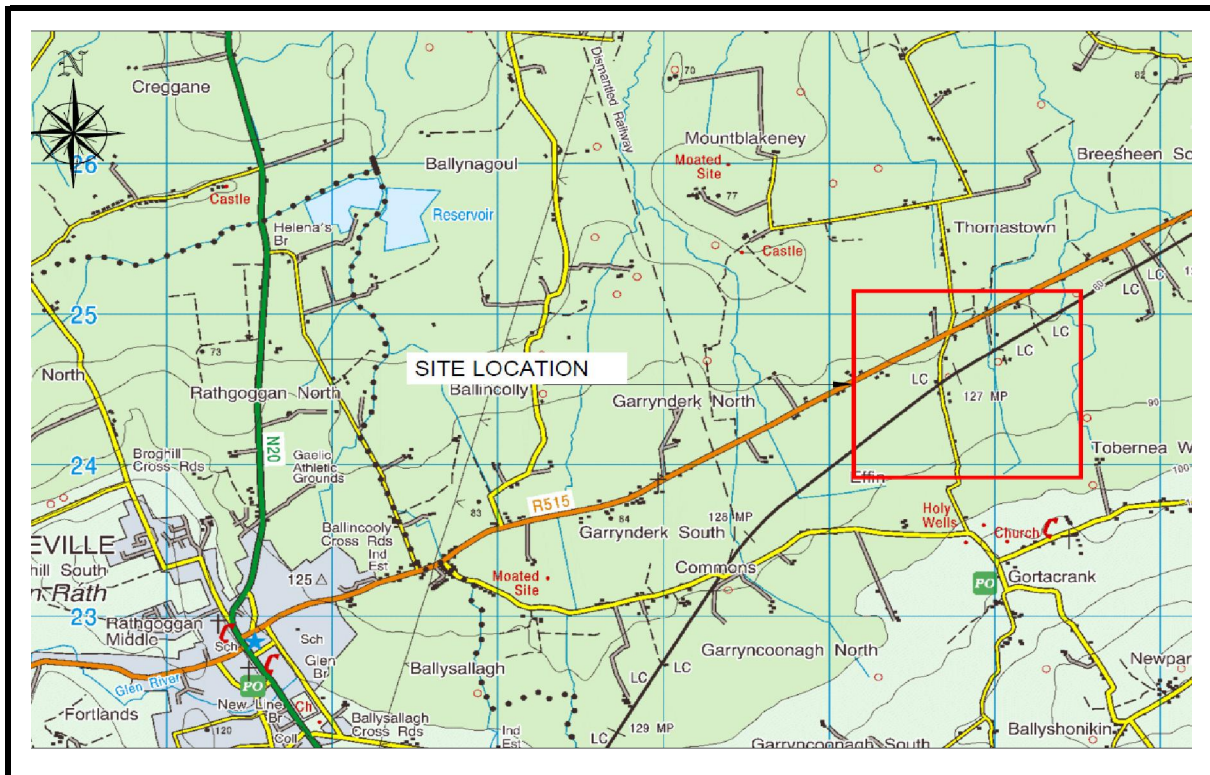
XC201, Thomastown, Effin, Co. Limerick

	Description	Northbound	Southbound	Total /Average
Pedestians	Adult	6	9	15
	Children	0	1	1
	Total	6	10	16
Vehicles	PCL/MCL	1	0	1
	Cars and LGV's	16	14	30
	HGV's	0	0	0
	Buses	0	0	0
	Total AADT	17	14	31
Speeds	Max	31.2	26.9	29.05
	Min	7.7	3.9	5.8
	Mean	17.7	18.2	17.95
	85% Speed	25.6	23.0	24.3

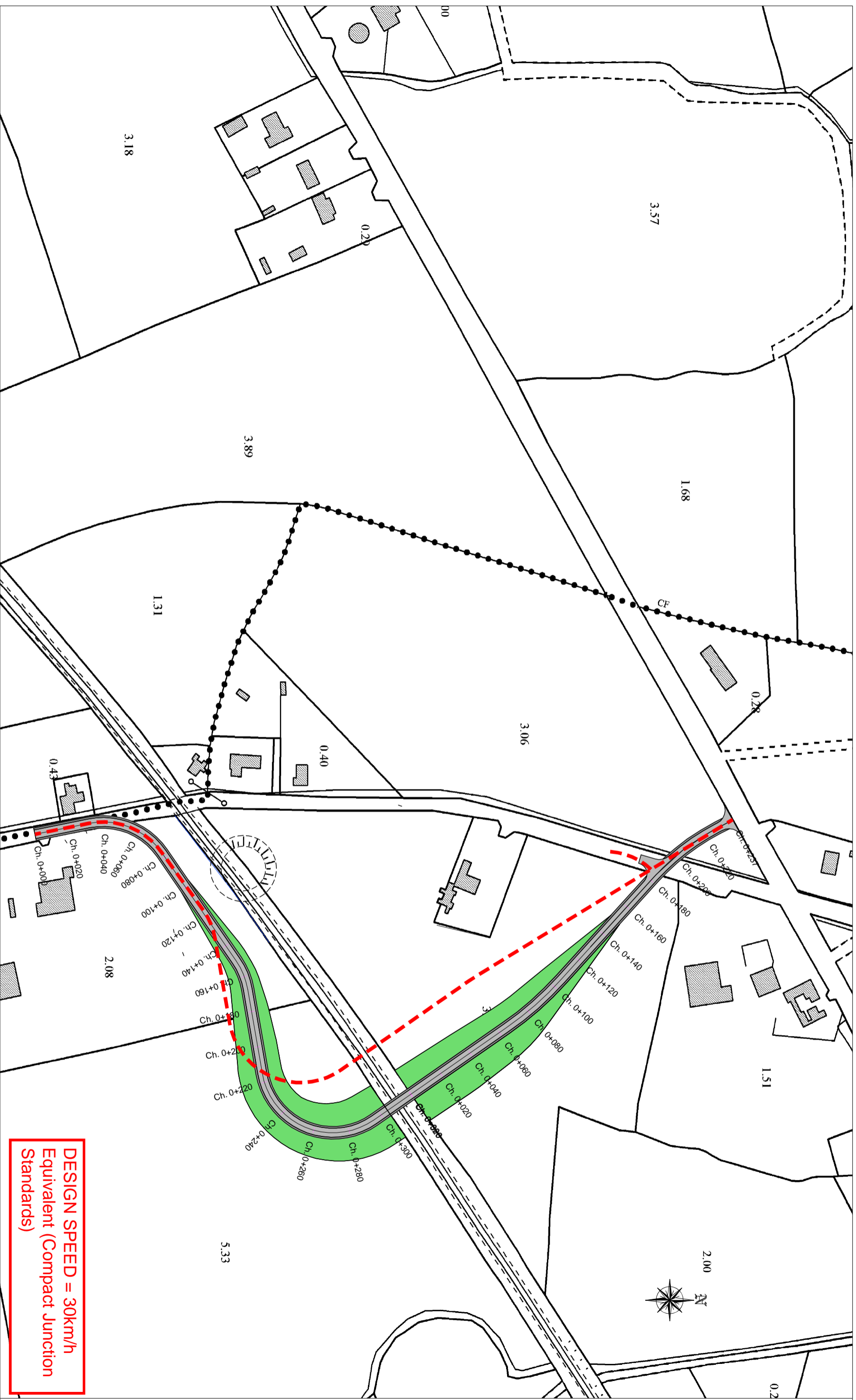
85% Speed 24.3

Design Speed DMRB Below 42

Selected Design Speed 30 (Comp Junct)



Note: Selected Design Speed should be 1 Design Speed above the Posted Speed Limit - i.e. 70 km/h Design Speed for a 60 km/h Limit.



DESIGN SPEED = 30km/h
Equivalent (Compact Junction
Standards)

No.	Revision	Date	By	Checked	Approved
	Stage				
PRELIMINARY					
APPROVAL					
TENDER					
CONSTRUCTION					

Roughan & O'Donovan
 Consulting Engineers
 Civil - Structural - Transportation - Environmental

Arena House, Arena Road,
 Sandyford, Dublin 18.
 Tel: +353 1 294 0800
 Fax: +353 1 294 0820
 e-mail: info@rod.ie
 www.roughanodonovan.com

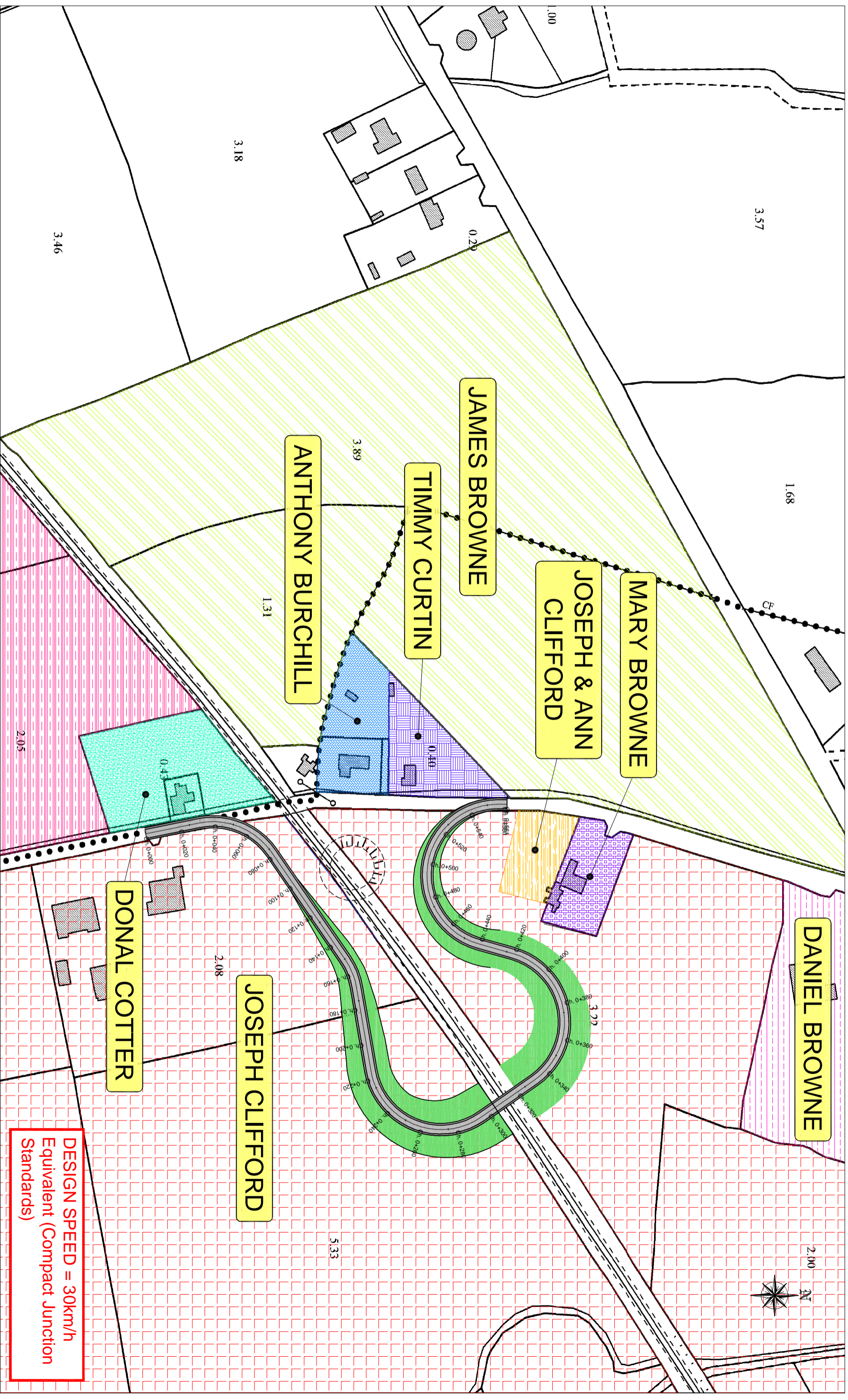
Designed: SB Checked: M.K. Approved: M.K. Status: PRELIMINARY

Project Title		IARNROD EIREANN LEVEL CROSSINGS PROJECT XC201, THOMASTOWN, CO. LIMERICK	
Drawing Title		ROUTE OPTION 2	
Drawn:	M.H.	Job No:	98.175.565
Scale:	1:1000	Date:	JUN, 11
Drawing No:		SK355-009	



DESIGN SPEED = 30km/h
 Equivalent (Compact Junction
 Standards)

Roughan & O'Donovan Consulting Engineers <i>Civil - Structural - Transportation - Environmental</i>		Arena House, Arena Road, Sandyford, Dublin 18. Tel : +353 1 294 0800 Fax : +353 1 294 0820 e-mail : info@rod.ie www.roughanodonovan.com
Project Title IARNROD EIREANN LEVEL CROSSINGS PROJECT XC201, THOMASTOWN, CO. LIMERICK	Drawing Title ROUTE OPTION 1	Date: M.H. Scale: 1:1000
Designed: SB Checked: M.K. Approved: M.K. Status: PRELIMINARY	Date: JUN, 11 Job No: 98.175.565	Drawing No: SK355-006 Rev: -



DESIGN SPEED = 30km/h
Equivalent (Compact Junction
Standards)

No.	Revision	Date	By	Checked	App'd
PRELIMINARY					
APPROVAL					
TENDER					
CONSTRUCTION					

Roughan & O'Donovan
 Consulting Engineers
Civil - Structural - Transportation - Environmental

Arena House, Arena Road,
 Sandycove, Dublin 18.
 Tel: +353 1 294 0800
 Fax: +353 1 294 0820
 e-mail: info@rod.ie
 www.roughanodonovan.com

Designed: SB Checked: MJK Approved: MJK Status: PRELIMINARY

Project Title		IARNROD EIREANN LEVEL CROSSINGS PROJECT XC201, THOMASTOWN, CO. LIMERICK	
Drawing Title	ROUTE OPTION 1 LANDOWNERSHIP	Scale	1:1000
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Checked	99.175.595	Drawn by	SK355-007
App'd		Rev.	-

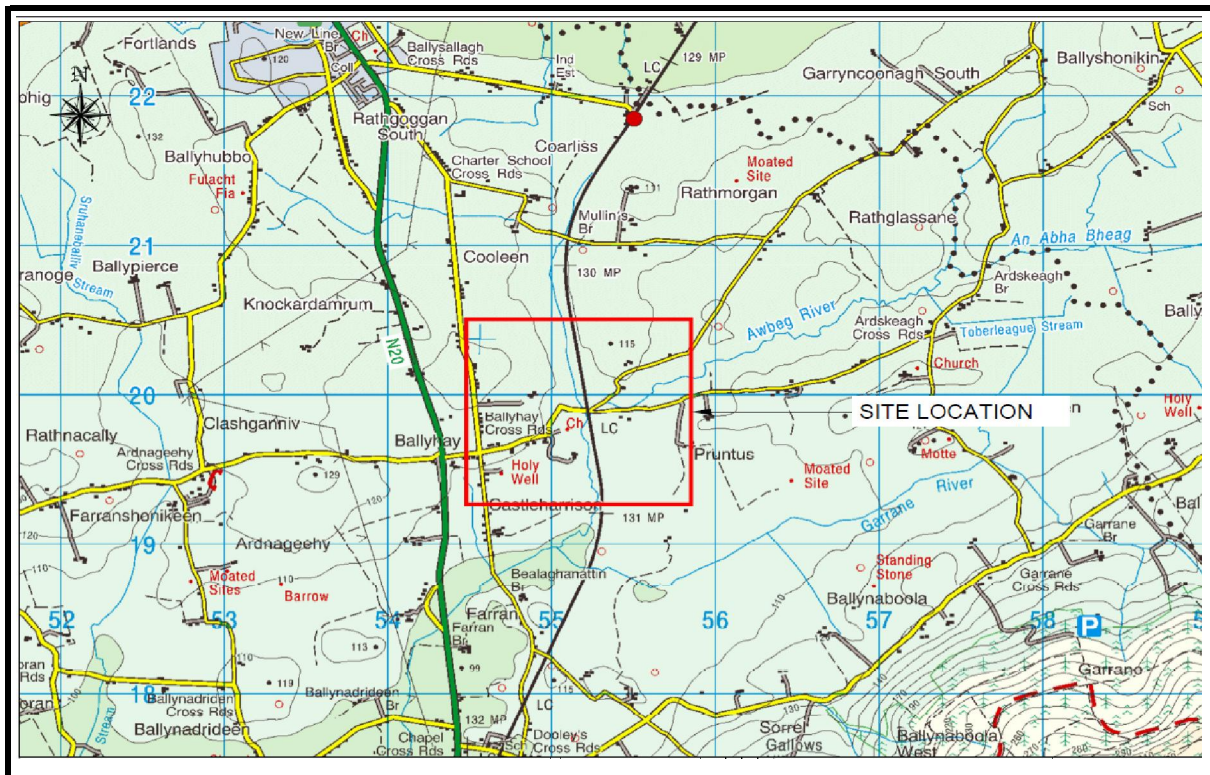
XC209, Ballyhay, Co. Cork

	Description	Eastbound	Westbound	Total /Average
Pedestrians	Adult	8	5	13
	Children	0	0	0
	Total	8	5	13
Vehicles	PCL/MCL	1	1	2
	Cars and LGV's	160	141	301
	HGV's	9	14	23
	Buses	0	0	0
	Total AADT	170	156	326
Speeds	Max	62.1	62.4	62.25
	Min	0.0	15.0	7.5
	Mean	40.7	40.0	40.35
	85% Speed	50.0	48.2	49.1

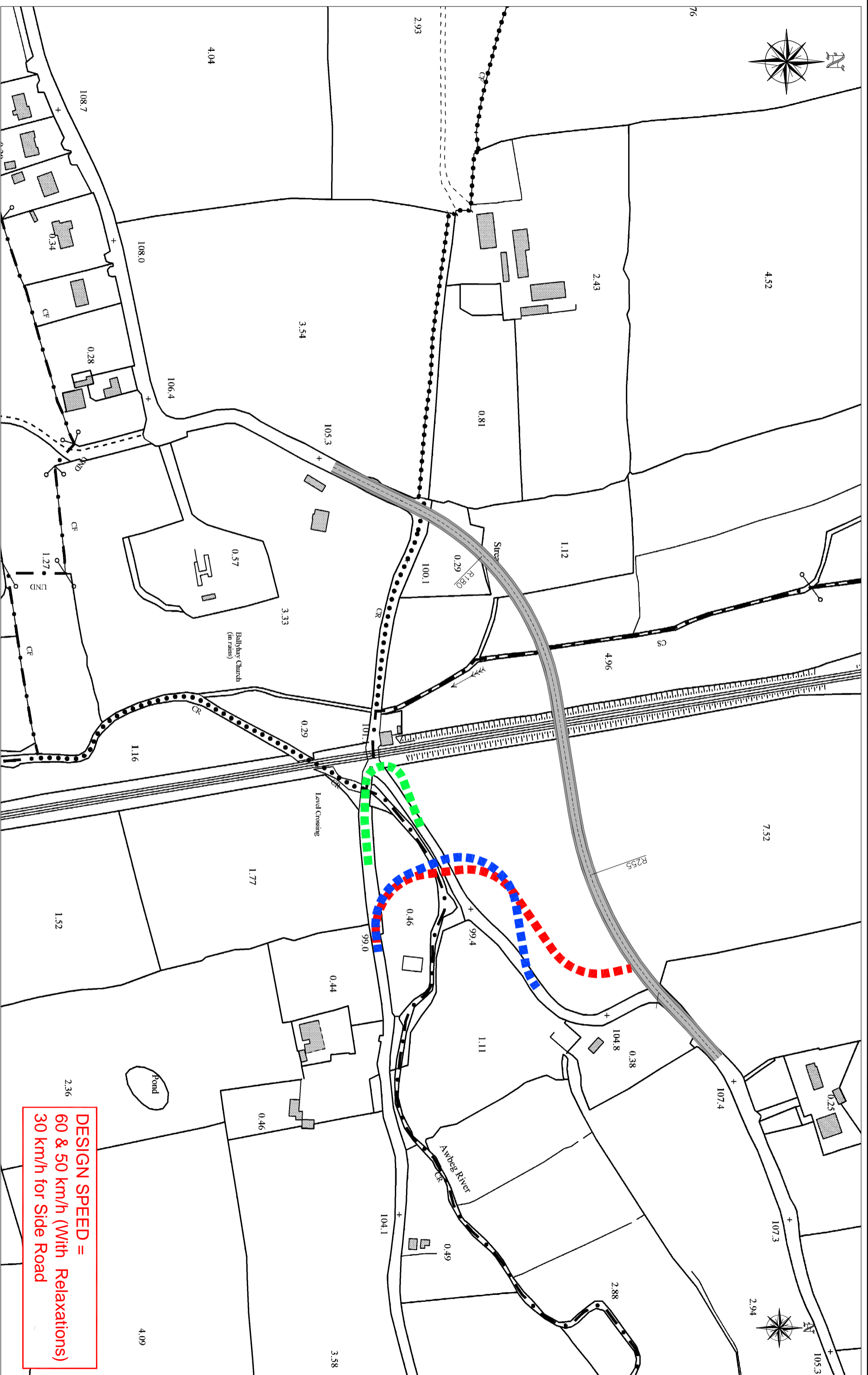
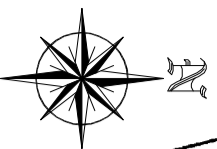
85% Speed 49.1

Design Speed DMRB 50

Selected Design Speed 50



Note: Selected Design Speed should be 1 Design Speed above the Posted Speed Limit - i.e. 70 km/h Design Speed for a 60 km/h Limit.



DESIGN SPEED =
 60 & 50 km/h (With Relaxations)
 30 km/h for Side Road

PRELIMINARY	No.	Revision	Date	By	Checked	Approved
APPROVAL						
TENDER						
CONSTRUCTION						

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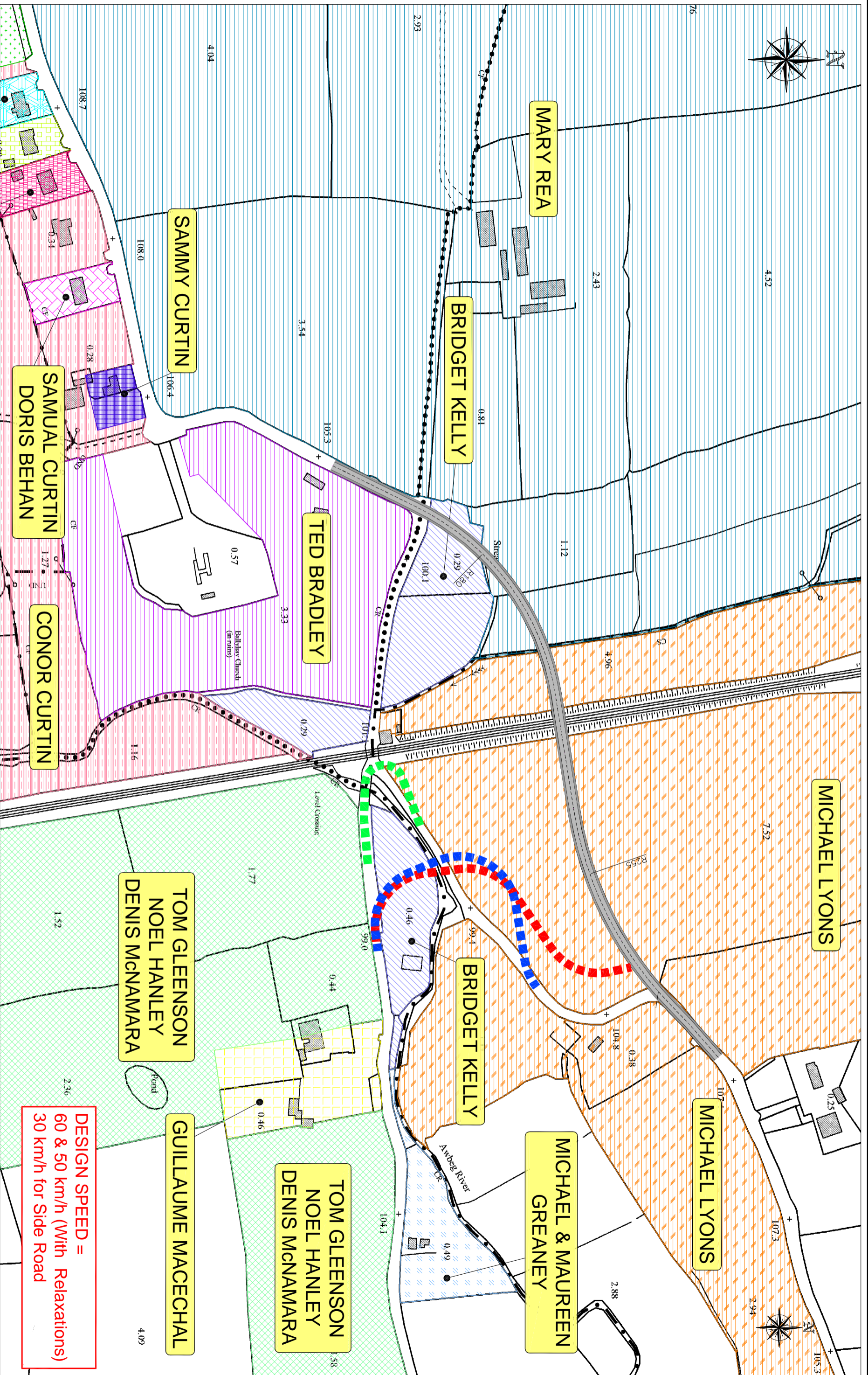
Arena House, Arena Road,
 Sandyford, Dublin 18.
 Tel : +353 1 294 0800
 Fax : +353 1 294 0820
 e-mail : info@rod.ie
 www.roughanodonovan.com

Project Title: IARNROD EIREANN LEVEL CROSSINGS PROJECT
 XC209, BALLYHAY, CO. CORK.

Drawing Title: ROUTE OPTION 4

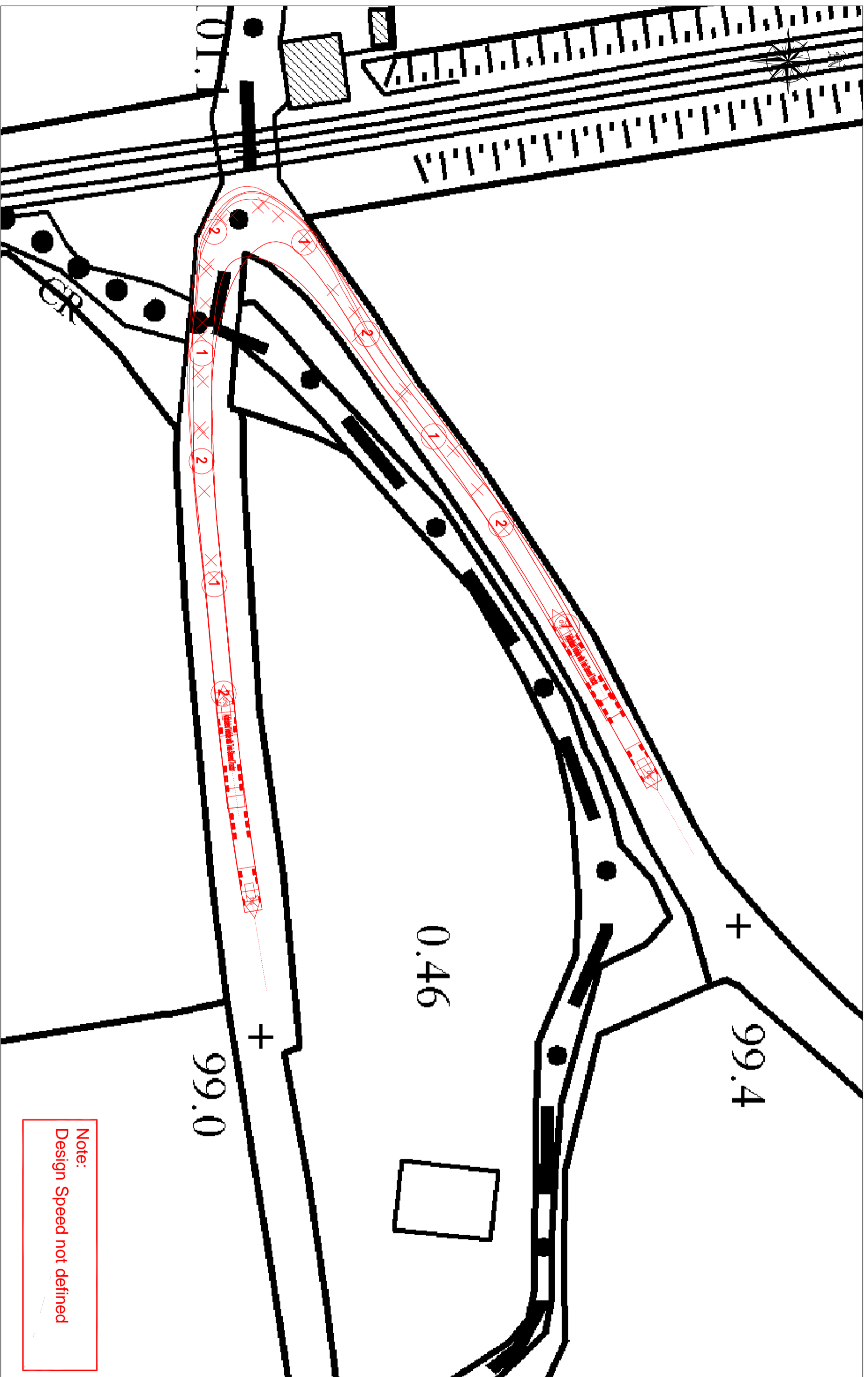
Drawn	M.H.	Job No	99.175.957	Drawn by	
Scale	1:2500 @ A3	Date	JUN. 11	Rev	

Drawing No: SK357-010



**DESIGN SPEED =
60 & 50 km/h (With Relaxations)
30 km/h for Side Road**

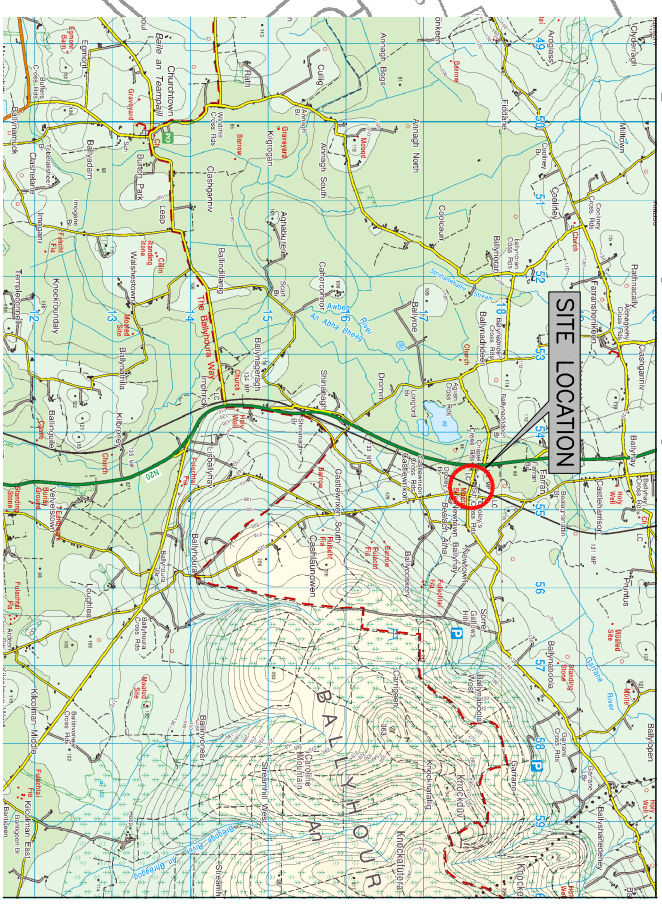
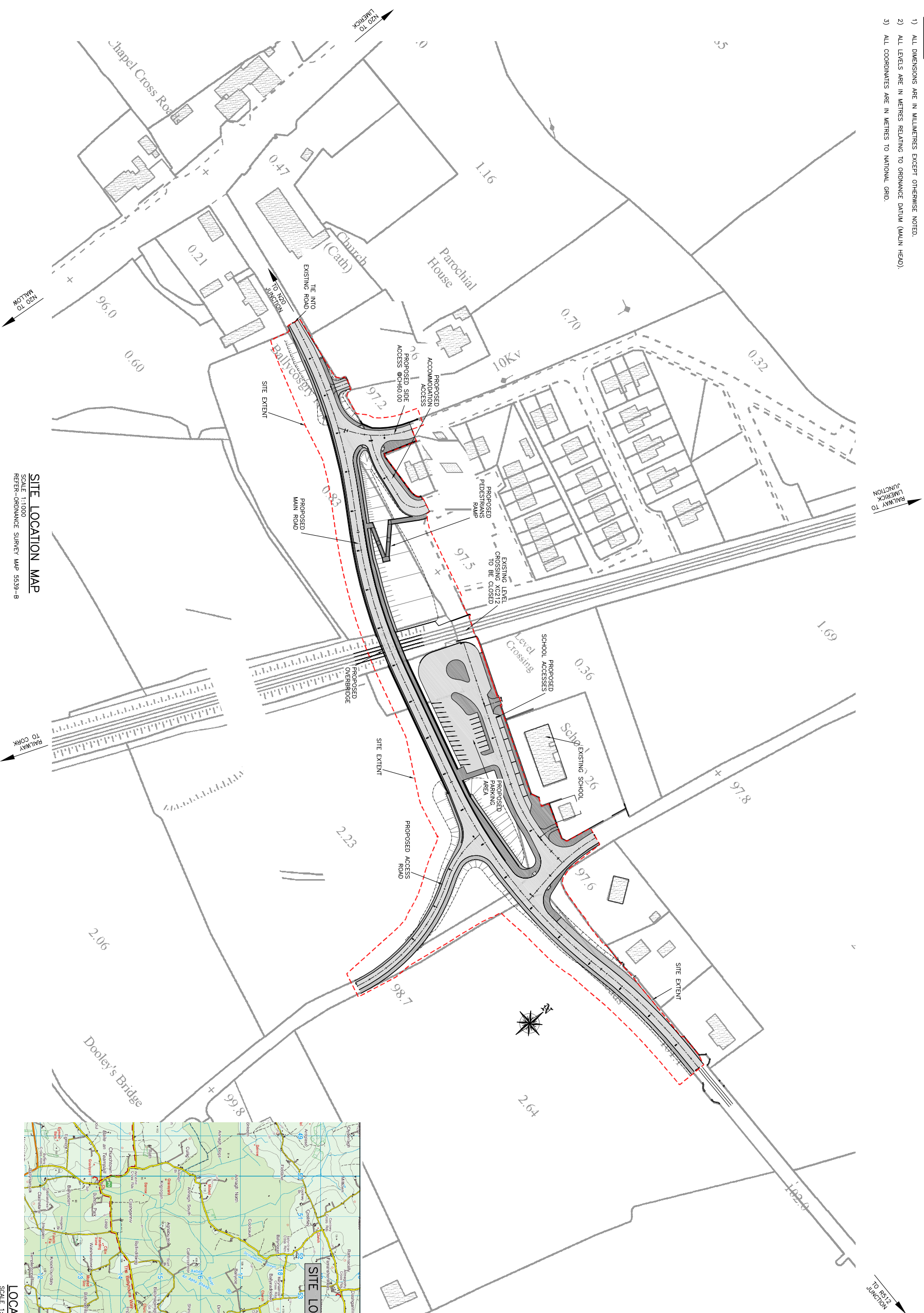
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<p>No. Revision Date By Date App'd</p>		<p>PRELIMINARY APPROVAL TENDER CONSTRUCTION</p>	
<p>Designed SB</p>		<p>Checked M.K.</p>	
<p>Approved M.K.</p>		<p>Status PRELIMINARY</p>	
<p>Project Title IARNROD EIREANN LEVEL CROSSINGS PROJECT XC209, BALLYHAY, CO. CORK.</p>		<p>Client Roughan & O'Donovan Consulting Engineers Civil, Structural, Transportation, Environmental Arena House, Arena Road, Sandyford, Dublin 18. Tel: +353 1 294 0800 Fax: +353 1 294 0820 e-mail: info@rod.ie www.roughanodonovan.com</p>	
<p>Drawing Title ROUTE OPTION 4 LAND OWNERSHIP</p>		<p>Drawn M.H. Date JUL 11</p>	
<p>Scale 1:2500 @ A3</p>		<p>Job No 99.175.957 Drawing No SK357-013</p>	



Note:
Design Speed not defined

Project Title		IARNROD EIREANN LEVEL CROSSINGS PROJECT	
Drawing Title		Autotrack Bridge	
Drawn	M.H.	Job No	99.175.557
Scale	1:250 @ A3	Date	JUL. 11
Designed		Checked	Approved
S.B.		M.K.	M.K.
Status		PRELIMINARY	
Projected IARNROD EIREANN LEVEL CROSSINGS PROJECT XC209, BALLYHAY, CO. CORK.			
Arena House, Arena Road, Sandyford, Dublin 18. Tel : +353 1 294 0800 Fax : +353 1 294 0820 e-mail : info@rod.ie www.roughanodonovan.com			
Roughan & O'Donovan Consulting Engineers <i>Civil - Structural - Transportation - Environmental</i>			
Designed By: S.B. Checked: M.K. Approved: M.K. Status: PRELIMINARY			
PRELIMINARY APPROVAL TENDER CONSTRUCTION			
No.	Revision	Date	By: C.M.K. / A.P.D.

- NOTES:**
- 1) ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE NOTED.
 - 2) ALL LEVELS ARE IN METRES RELATING TO ORDNANCE DATUM (MALIN HEAD).
 - 3) ALL COORDINATES ARE IN METRES TO NATIONAL GRID.



SITE LOCATION MAP
SCALE 1:1,000
REFER-ORDNANCE SURVEY MAP 5539-1B



CORK COUNTY COUNCIL
County Hall
Carrigrohane Road,
Cork.

Tel. No: (021) 4278891
Fax No: (021) 4278921

Mr Noel O'Keefe, B.E., C.M.C.,
Burling, F.I.C.I., M.I.C.E.,
COUNTY ENGINEER.

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Jan 19, 2011 - 4:42pm

Drawing Location: L:\caddwg\1999\9917\9196\17556\XC212\Ballyosker\Drawings\Part 8\Planning\Part 8-56-01.dwg

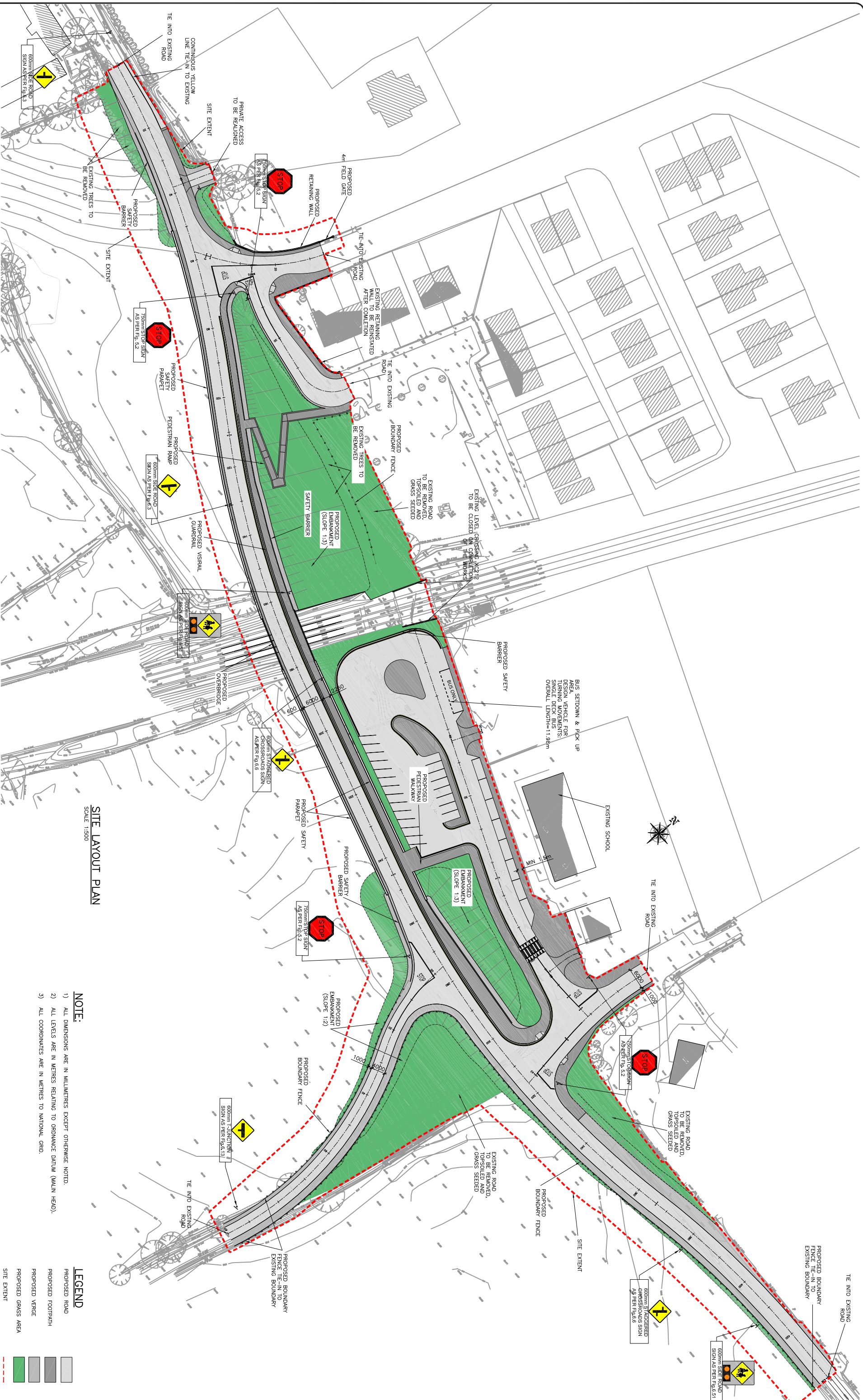
No.	Revision	Stage	Date	By	Chkd	Apptd

Roughan & O'Donovan
Consulting Engineers
Civil - Structural - Transportation - Environmental

Arena House, Arena Road,
Sandyford, Dublin 18,
Tel: +353 1 294 0800
Fax: +353 1 294 0820
e-mail: info@rodle
www.roughanodonovan.com

Designed: TK
Checked: MK
Approved: MK
Status: PART 8 - PLANNING

Project Title		
LEVEL CROSSING REPLACEMENT PROJECT - PHASE 2 CLOSURE OF LEVEL CROSSING XC212 BALLYOSKERRY, CO. CORK		
Drawing Title		
SITE LOCATION & LOCATION MAP		
Drawn:	Job No:	Drawing No:
TK	98.175.56	PART 8 - 56-01
Scale:	Date:	Rev:
AS SHOWN @ A1	JUNE 10	



SITE LAYOUT PLAN
SCALE 1:1500

- NOTE:**
- 1) ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE NOTED.
 - 2) ALL LEVELS ARE IN METRES RELATING TO ORDNANCE DATUM (MALIN HEAD).
 - 3) ALL COORDINATES ARE IN METRES TO NATIONAL GRID.

LEGEND

	PROPOSED ROAD
	PROPOSED FOOTPATH
	PROPOSED VERGE
	PROPOSED GRASS AREA
	SITE EXTENT



CORK COUNTY COUNCIL
County Hall
Carrigrohane Road,
Cork.



Mr Noel O'Keefe, B.E., C.M.C.,
Burling, F.I.C.I., M.I.C.E.,
COUNTY ENGINEER.

TEL No: (021) 4278891
FAX No: (021) 4278521

No.	Revision	Date	By	Chkd

PRELIMINARY
APPROVAL
TENDER
CONSTRUCTION



Roughan & O'Donovan
Consulting Engineers
Civil - Structural - Transportation - Environmental

Designed:	TK	Checked:	MK	Approved:	MK	Status:	

Arena House, Arena Road,
Sandyford, Dublin 18.
Tel: +353 1 294 0800
Fax: +353 1 294 0820
e-mail: info@rod.ie
www.roughanodonovan.com

Project Title: **LEVEL CROSSING REPLACEMENT PROJECT - PHASE 2**
CLOSURE OF LEVEL CROSSING XC212 BALLYCOSKERRY, CO. CORK

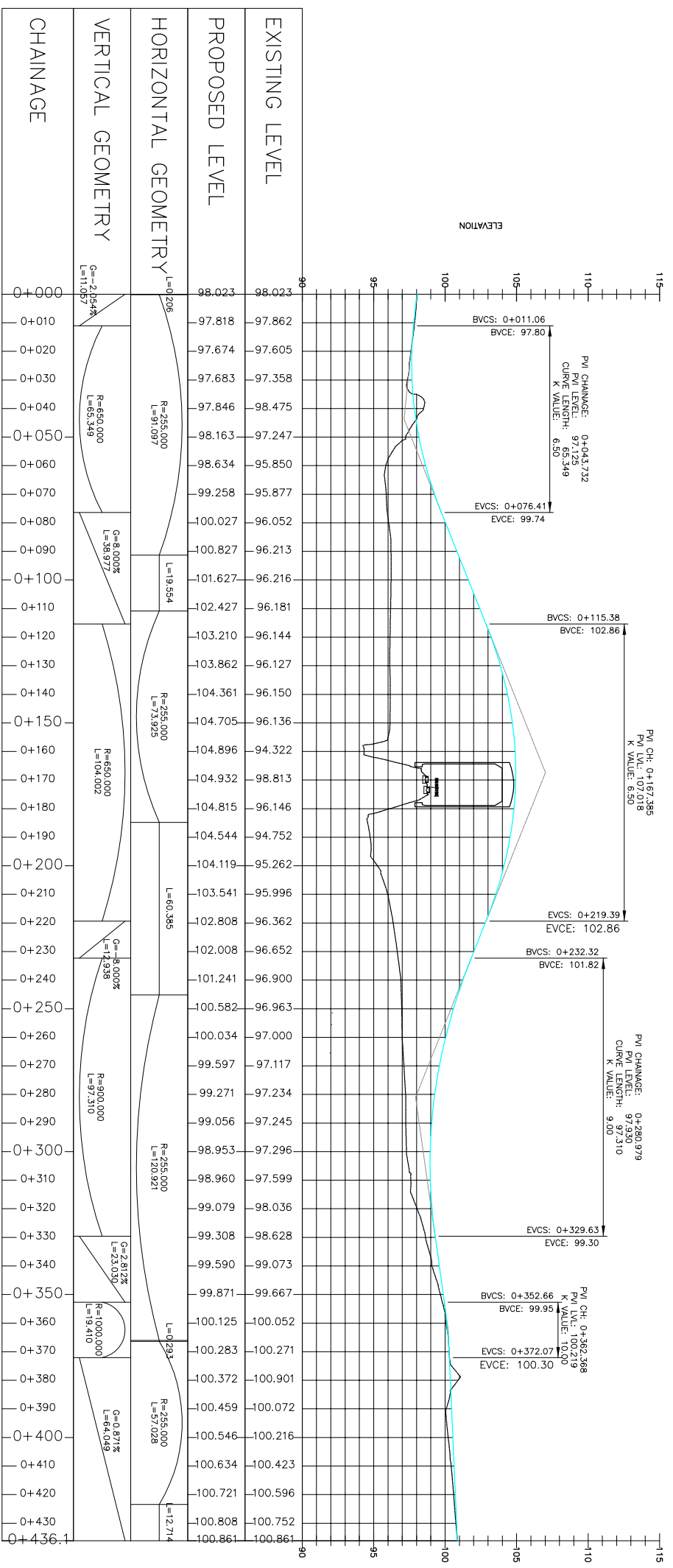
Drawing Title: **SITE LAYOUT PLAN**

Drawn: TK
Scale: AS SHOWN @ A1

Job No: 98.175.56
Date: JUNE 10

Rev: **PART 8 - 56-02**

- NOTE:**
- 1) ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE NOTED.
 - 2) ALL LEVELS ARE IN METRES RELATING TO ORDINANCE DATUM (MALIN HEAD).
 - 3) ALL COORDINATES ARE IN METRES TO NATIONAL GRID.



ALIGNMENT OF MAIN ROAD

SCALE HZ - 1:1000 VT - 1:200



CORK COUNTY COUNCIL
County Hall
Carrigrohane Road,
Cork.

Tel. No: (021) 4278891
Fax No: (021) 4278921

Mr Noel O'Keefe, B.E., C.ENG.,
Burrill, F.I.R.I., M.I.C.E.,
COUNTY ENGINEER.

No.	Revision	Date	By	CHK'd	Appr'd
	Stage				



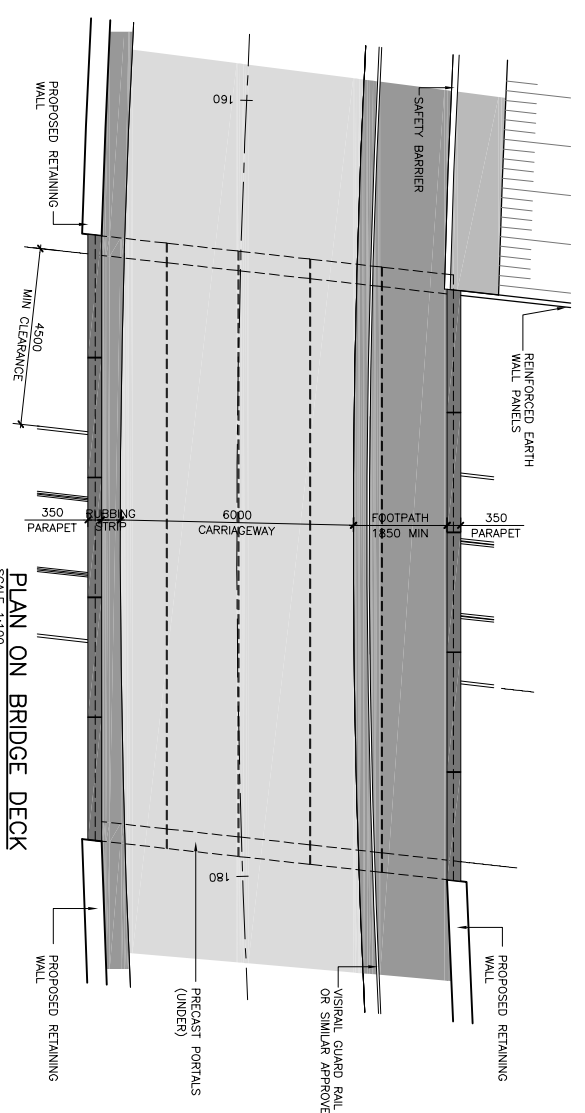
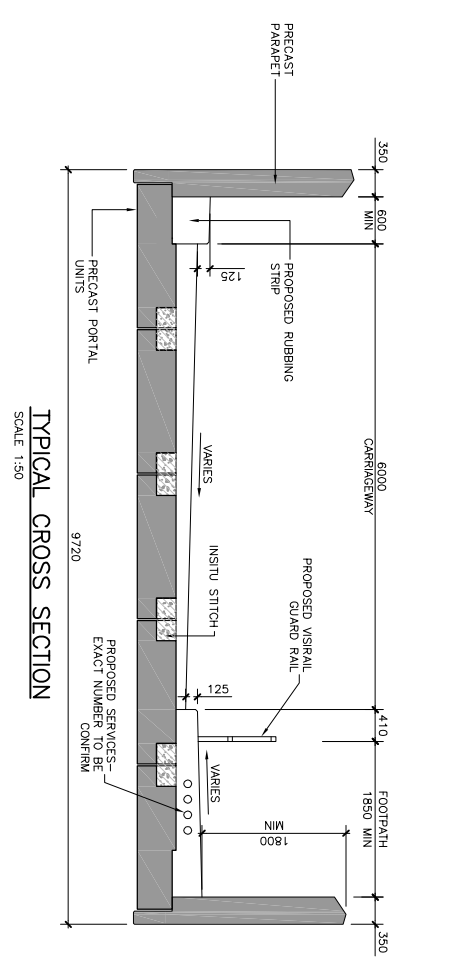
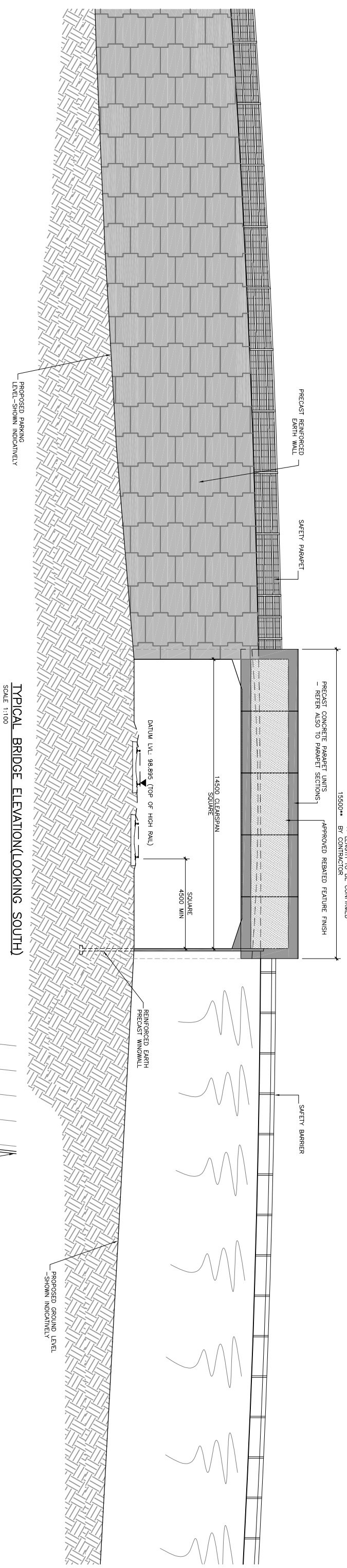
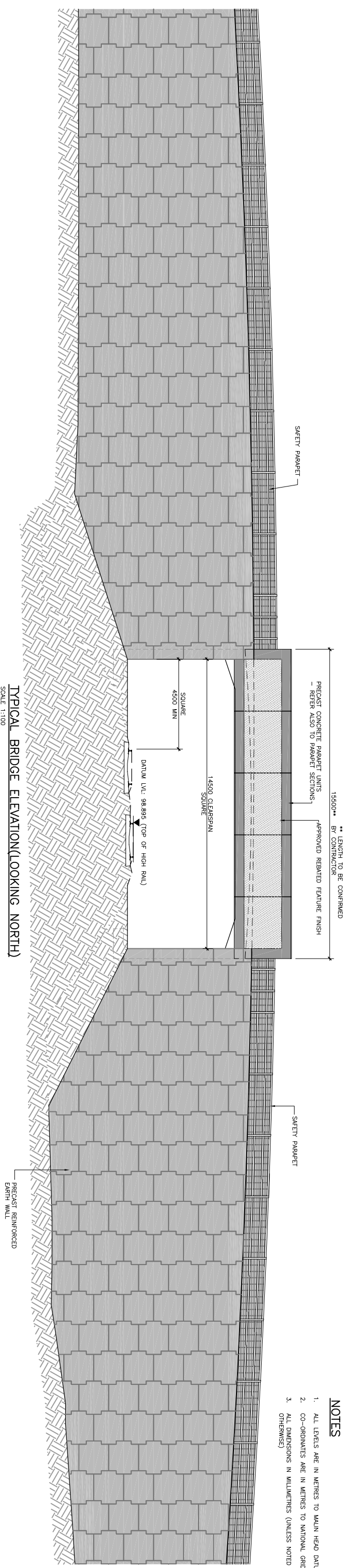
Roughan & O'Donovan
Consulting Engineers
Civil - Structural - Transportation - Environmental

Arena House, Arena Road,
Sandyford, Dublin 18.
Tel : +353 1 294 0800
Fax : +353 1 294 0820
e-mail : info@rod.ie
www.roughanodonovan.com

Designed:	TK	Checked:	MK	Approved:	MK	Status:	PART 8 - PLANNING
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Project Title		LEVEL CROSSING REPLACEMENT PROJECT - PHASE 2	
Drawing Title		CLOSURE OF LEVEL CROSSING XC212 BALLYCOSKERRY, CO. CORK	
Drawing Title		VERTICAL ALIGNMENT - SHEET 1 OF 2	
Drawn:	TK	Job No:	98.175.56
Scale:	AS SHOWN @A1	Date:	JUNE 10
		Drawing No:	PART 8 - 56-03
		Rev:	

- NOTES**
1. ALL LEVELS ARE IN METRES TO MAIN HEAD DATUM
 2. CO-ORDINATES ARE IN METRES TO NATIONAL GRID
 3. ALL DIMENSIONS IN MILLIMETRES (UNLESS NOTED OTHERWISE)



Feirmród Eireann

CORK COUNTY COUNCIL
County Hall
Carrigrohane Road,
Cork.

Mr Noel O'Keefe, B.E., C.ENG.,
Burling, F.I.C.I., M.I.C.E.,
COUNTY ENGINEER.

Tel. No: (021) 4278891
Fax No: (021) 4278921

No.	Revision	Date	By	CHKD	APPRD

Roughan & O'Donovan
Consulting Engineers
Civil - Structural - Transportation - Environmental

Arena House, Arena Road,
Sandyford, Dublin 18.
Tel: +353 1 294 0800
Fax: +353 1 294 0820
e-mail: info@rod.ie
www.roughanodonovan.com

Project Title: LEVEL CROSSING REPLACEMENT PROJECT - PHASE 2
CLOSURE OF LEVEL CROSSING XCZ12 BALLYCOSKERRY,
CO. CORK

Drawing Title: BRIDGE DETAILS

Scale: AS SHOWN @ A1

Job No: 98.175.56
Date: JAN 11

Drawn: AR
Scale: AS SHOWN @ A1

Checked: MK
Approved: [Signature]

Status: PART 8 - PLANNING

Project No: 98.175.56
Drawing No: PART 8 - 56-05

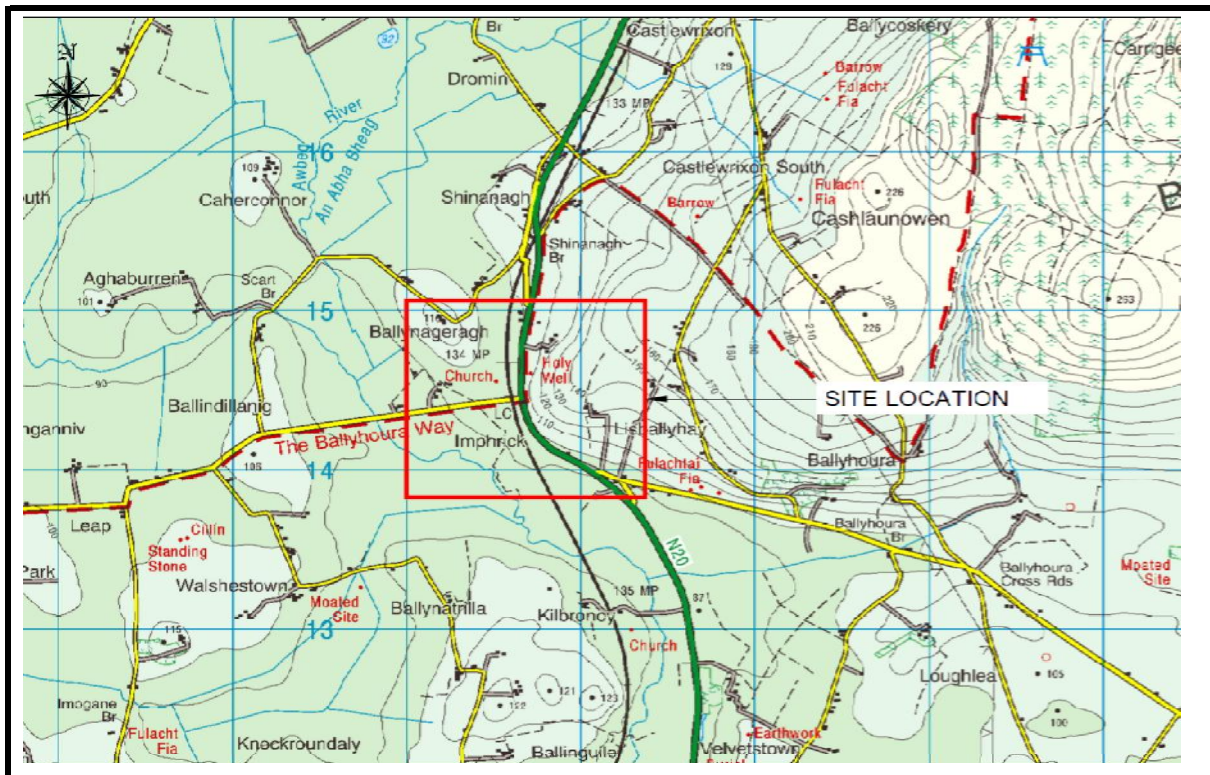
XC215, Shinanagh, Churchtown, Co. Cork

	Description	Eastbound	Westbound	Total /Average
Pedestrians	Adult	0	1	1
	Children	0	0	0
	Total	0	1	1
Vehicles	PCL/MCL	12	7	19
	Cars and LGV's	478	503	981
	HGV's	32	20	52
	Buses	0	1	1
	Total AADT	522	531	1053
Speeds	Max	68.3	62.3	65.3
	Min	7.9	0.9	4.4
	Mean	43.4	37.6	40.5
	85% Speed	54.0	46.1	50.1

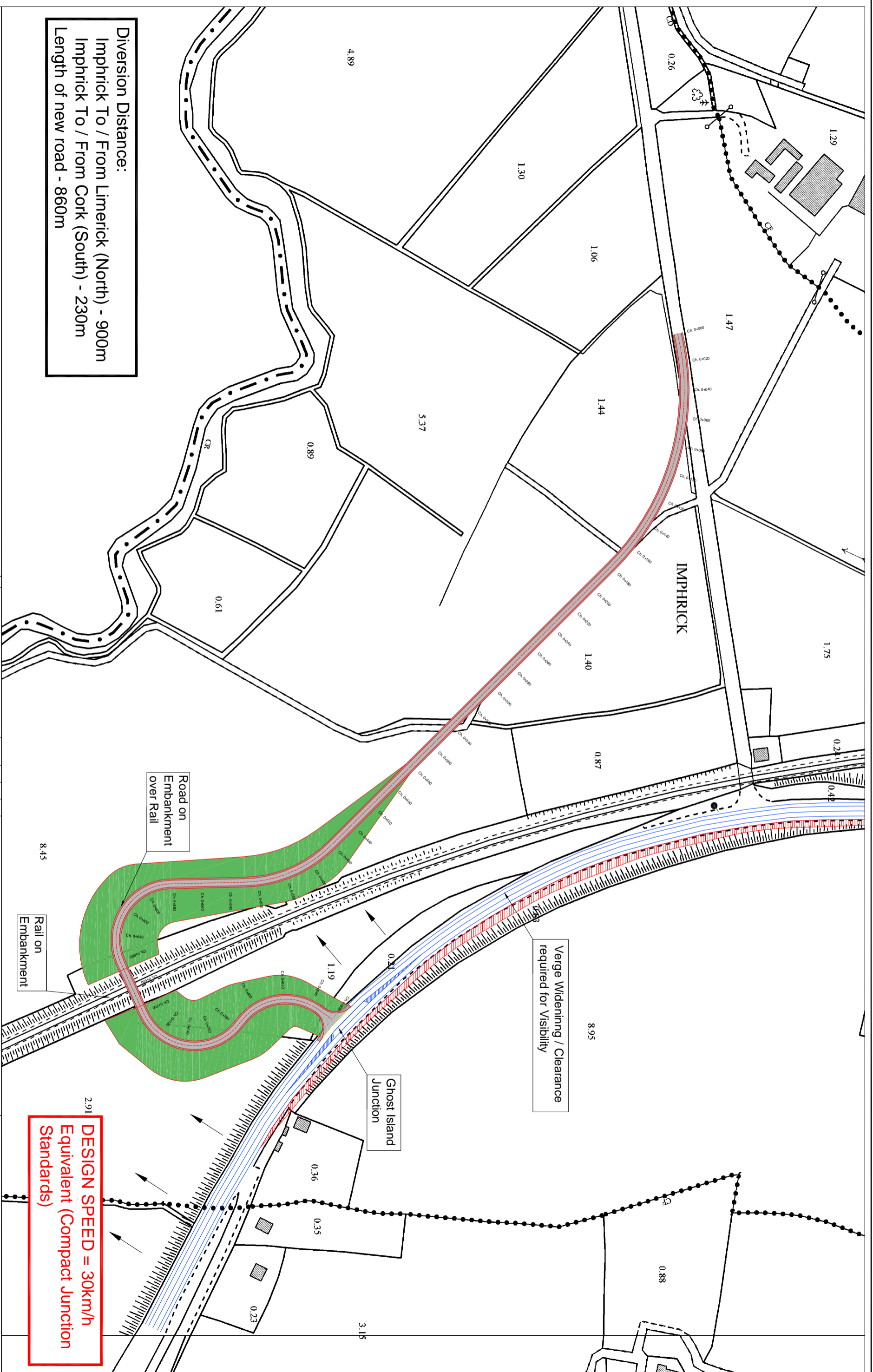
85% Speed 50.1

Design Speed DMRB 60

Selected Design Speed 50



Note: Selected Design Speed should be 1 Design Speed above the Posted Speed Limit - i.e. 70 km/h Design Speed for a 60 km/h Limit.



Diversion Distance:
 Imphrick To / From Limerick (North) - 900m
 Imphrick To / From Cork (South) - 230m
 Length of new road - 860m

DESIGN SPEED = 30km/h
Equivalent (Compact Junction
Standards)

No.	Revision	By	Date

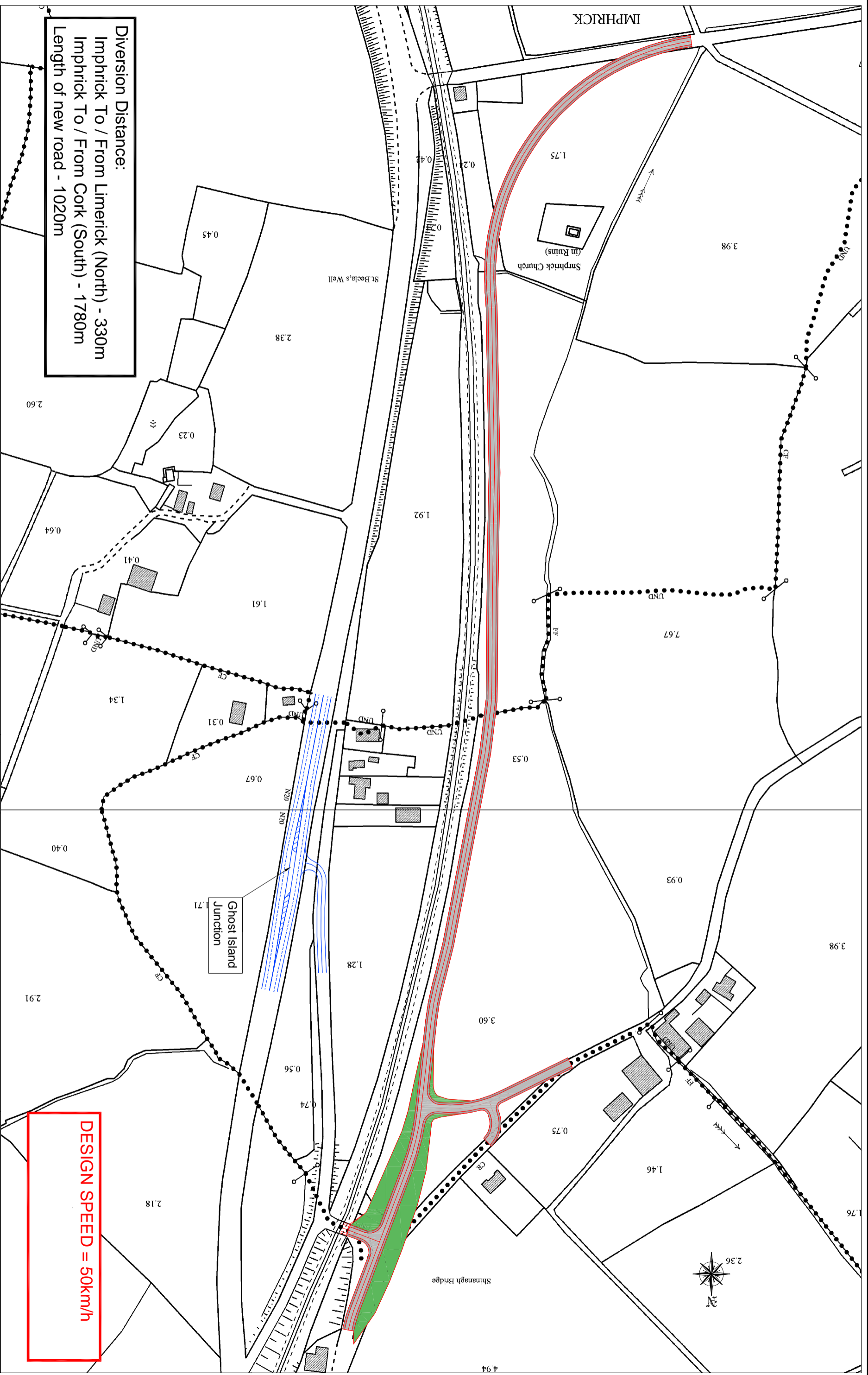
Stage	Date	App'd
PRELIMINARY		
APPROVAL		
TENDER		
CONSTRUCTION		

Roughan & O'Donovan
 Consulting Engineers
 Civil, Structural, Transportation, Environmental

Designed: SB
 Checked: M.K.
 Approved: M.K.
 Status: PRELIMINARY

Arena House, Arena Road,
 Sandyford, Dublin 18.
 Tel: +353 1 294 0800
 Fax: +353 1 294 0820
 e-mail: info@rod.ie
 www.roughanodonovan.com

Project Title	IARNROD EIREANN LEVEL CROSSINGS PROJECT XC215, SHINANAGH, CHURCHTOWN, CO. CORK.
Drawing Title	ROUTE OPTION 3 LANDOWNERSHIP
Drawn: M.H.	Date: JUN. 11
Scale: 1:2500 @ A3	Drawn No: 99.175.558



Diversion Distance:
 Imphrick To / From Limerick (North) - 330m
 Imphrick To / From Cork (South) - 1780m
 Length of new road - 1020m

DESIGN SPEED = 50km/h

No.	Revision	Date	By	App'd

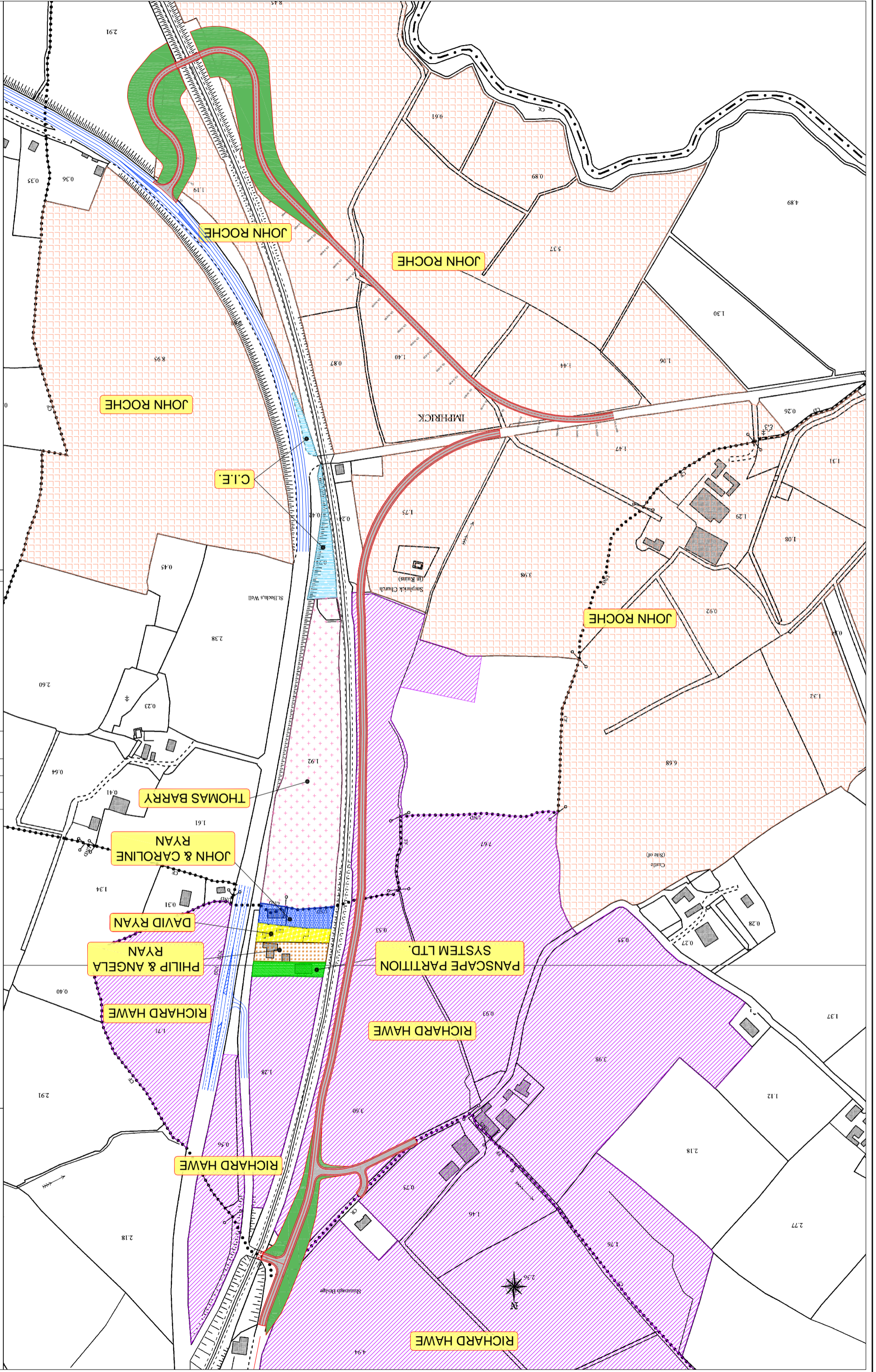
PRELIMINARY	
APPROVAL	
TENDER	
CONSTRUCTION	

Roughan & O'Donovan
 Consulting Engineers
 Civil - Structural - Transportation - Environmental

Arena House, Arena Road,
 Sandyford, Dublin 18,
 Tel: +353 1 294 0800
 Fax: +353 1 294 0820
 e-mail: info@rod.ie
 www.roughanodonovan.com

Designed	M.H.	Checked		Approved		Status	Route Option Stage
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Project Title		IARNROD EIREANN LEVEL CROSSINGS PROJECT XC215, SHINANAGH, CHURCHTOWN, CO. CORK.	
Drawing Title	ROUTE OPTION 5 - OVERALL	Job No.	99.175.558
Drawn	M.H.	Date	JUN. 11
Scale	NTS	Drawing No.	SK358-020

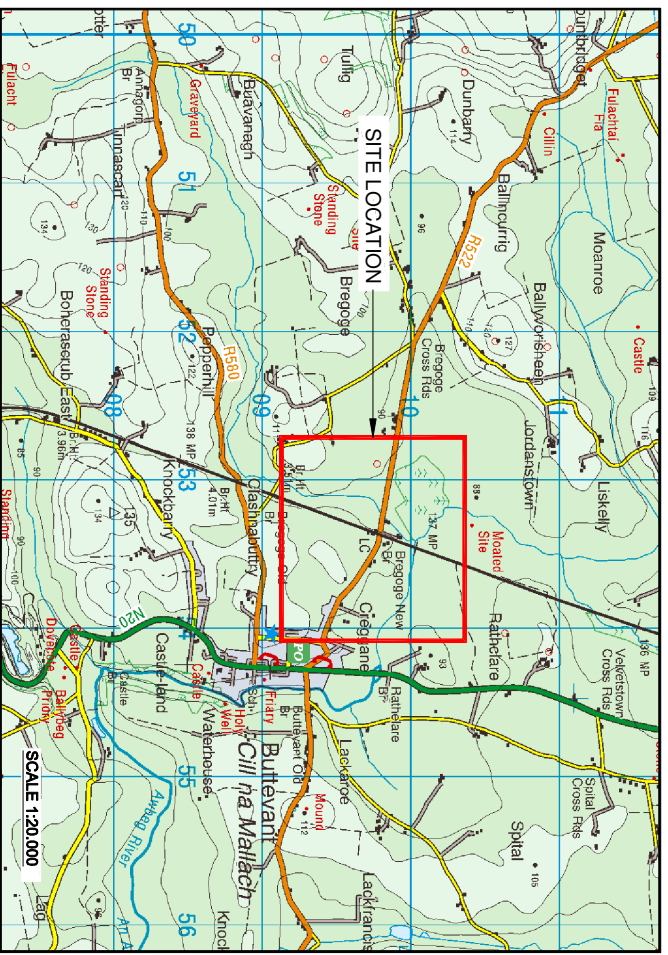
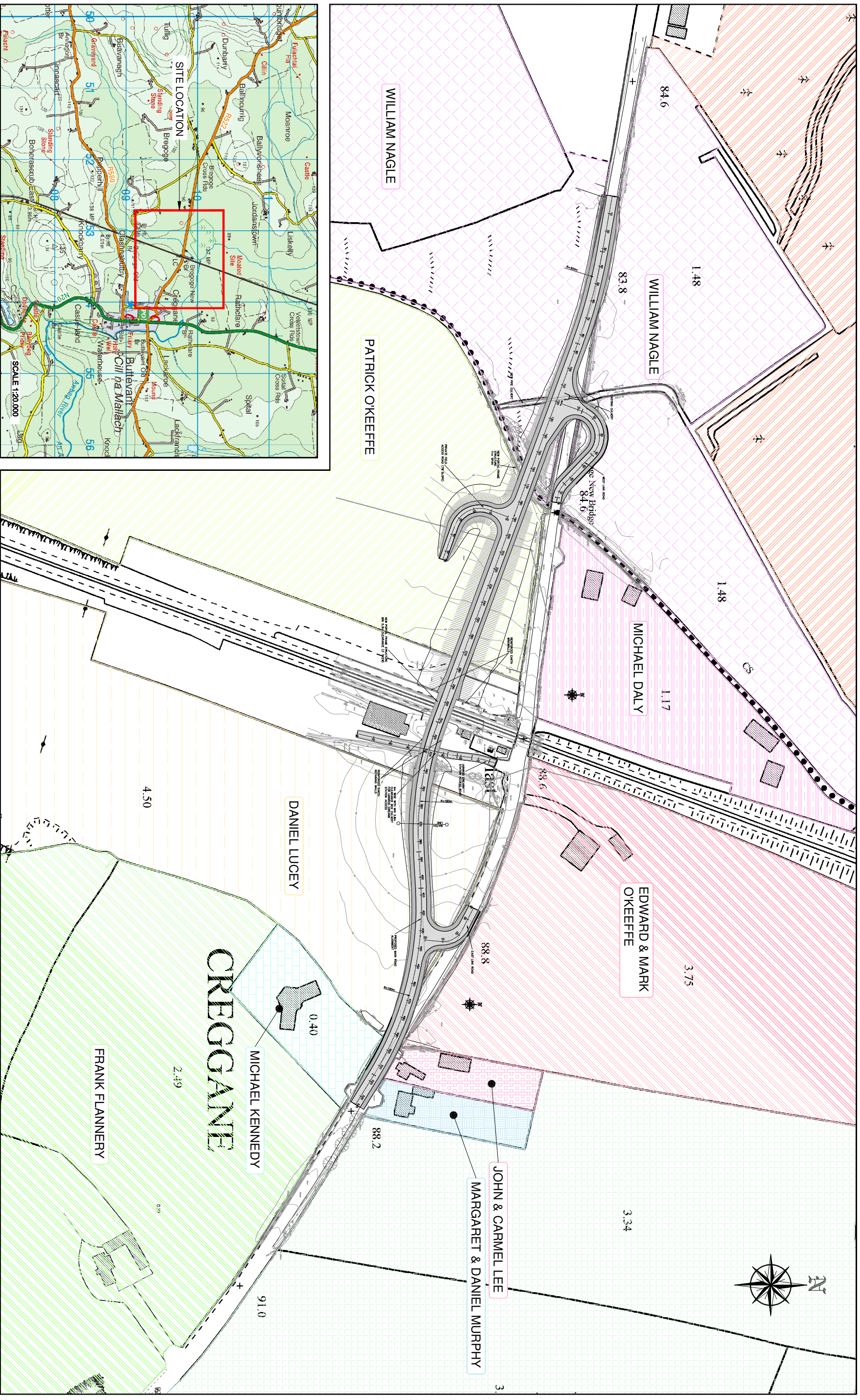


No.	Revision	Date	By	App'd
1	PRELIMINARY			
2	APPROVAL			
3	TENDER			
4	CONSTRUCTION			

Roughan & O'Donovan
 Consulting Engineers
 Civil - Structural - Transportation - Environmental

Arena House, Arena Road,
 Sandyford, Dublin 18,
 Tel: +353 1 294 0800
 Fax: +353 1 294 0820
 e-mail: info@rod.ie
 www.roughanodonovan.com

Project Title	IARNROD EIREANN LEVEL CROSSINGS PROJECT XC215, SHINANAGH, CHURCHTOWN, CO. CORK.		
Drawing Title	LANDOWNERSHIP		
Drawn	M.H.	Job No.	99.175.558
Scale	NTS	Date	JUN. 11
Checked		Drawn by	SK358-022
Approved		Rev.	
Status	Route Option Stage		



Eilarnród Éireann

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Map 12, 2012, 825mm

Drawing Location: L:\ardroj\1989\917591\7539\Sketches\XC219\12 Road & Landownership.dwg

No.	Revision	Date	By	Checked	Approved
	Stage				
PRELIMINARY					
APPROVAL					
TENDER					
CONSTRUCTION					

Roughan & O'Donovan
Consulting Engineers
Civil - Structural - Transportation - Environmental

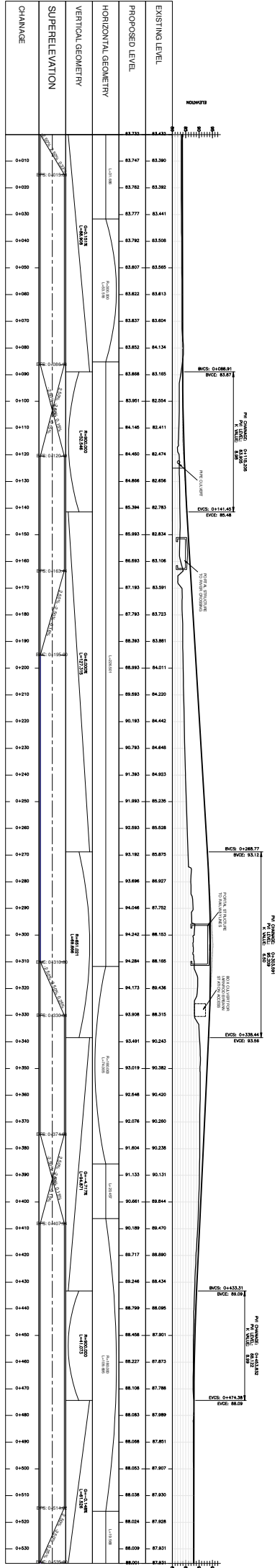
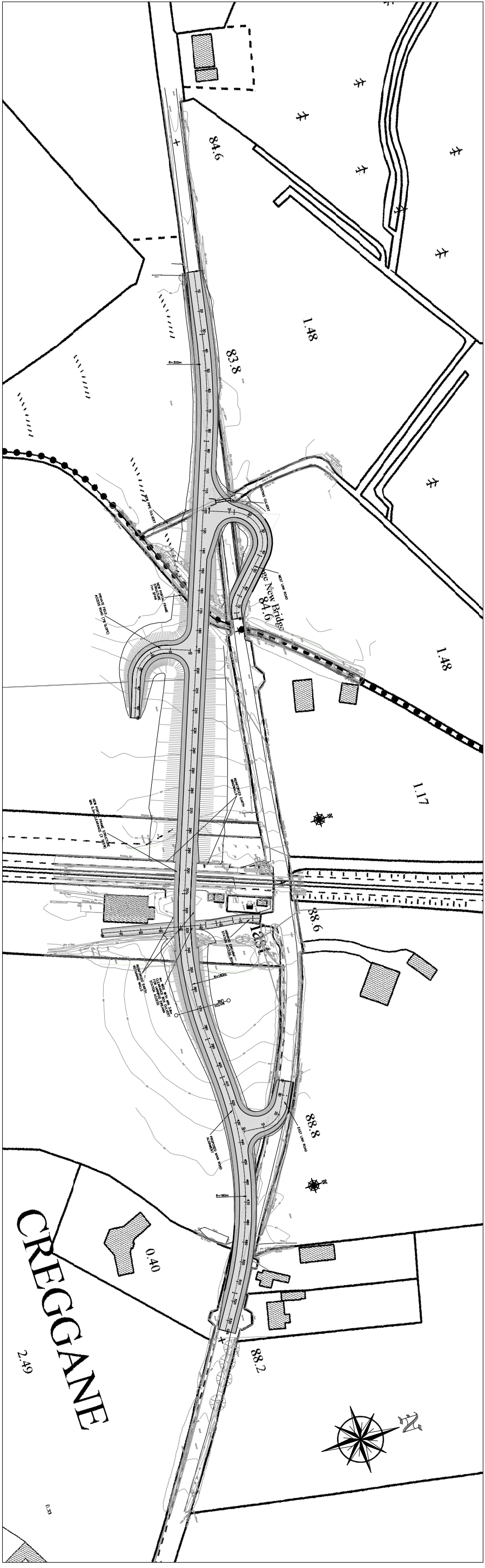
Arena House, Arena Road,
Sandyford, Dublin 18.
Tel : +353 1 294 0800
Fax : +353 1 294 0820
e-mail : info@rodie
www.roughanodonovan.com

Designed: S.B. Checked: M.K. Approved: M.K. Status: PRELIMINARY

Project Title
IARNRÓD ÉIREANN LEVEL CROSSINGS PROJECT
XC219, BUTTEVANT, CO. CORK.

Route and Landownership

Drawn	Rev	Date	Checked	Approved
RE	A1	15/03/12	M.K.	M.K.
Scale: 1:1000	1:1200	1:1500	1:2000	1:3000
Drawing No: 99.175.359	Date: March 2012	Drawing Title: SK359-012		



VERTICAL ALIGNMENT: BUTTEVANT-CI
SCALE: HZ = 1:500 VT = 1:500



Ordnance Survey Ireland Licence No. EN 0006510
Drawing Location: Llandudno/1598197/75917358/3/Sanchez/SK35913 Plan & Profile.dwg

No.		Revision		Date		By		Checked	
Preliminary		Stage		Date		Date		Date	
APPROVAL									
TENDER									
CONSTRUCTION									



Roughan & O'Donovan
Consulting Engineers
Civil - Structural - Transportation - Environmental

Avonia House, Avonia Road,
Sandyford, Dublin 18,
Tel: +353 1 294 0800
Fax: +353 1 294 0820
e-mail: info@rodie
www.roughanodonovan.com

Project Title
IARNROD EIREANN LEVEL CROSSINGS PROJECT
XC219, BUTTEVANT, CO. CORK

Drawing Title
Plan and Profile

Scale: 1:1000 @ A1 - 1:2000 @ A3

Job No: 99-175-389
Date: March 2012
Drawing No: SK359-013

Mar 12, 2012, 9:45am