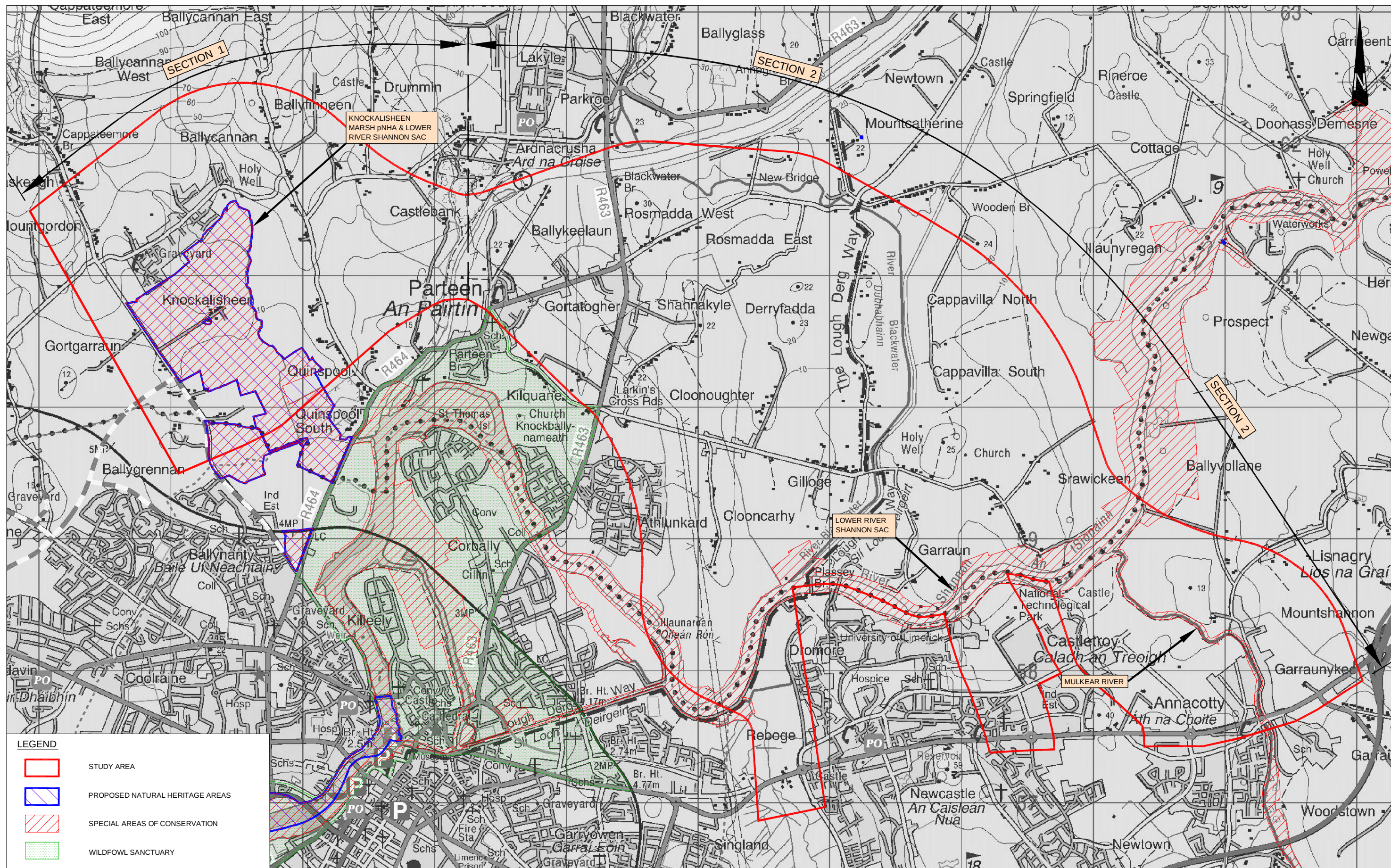




LEGEND

- STUDY AREA
- PROPOSED NATURAL HERITAGE AREAS
- SPECIAL AREAS OF CONSERVATION
- WILDFOWL SANCTUARY



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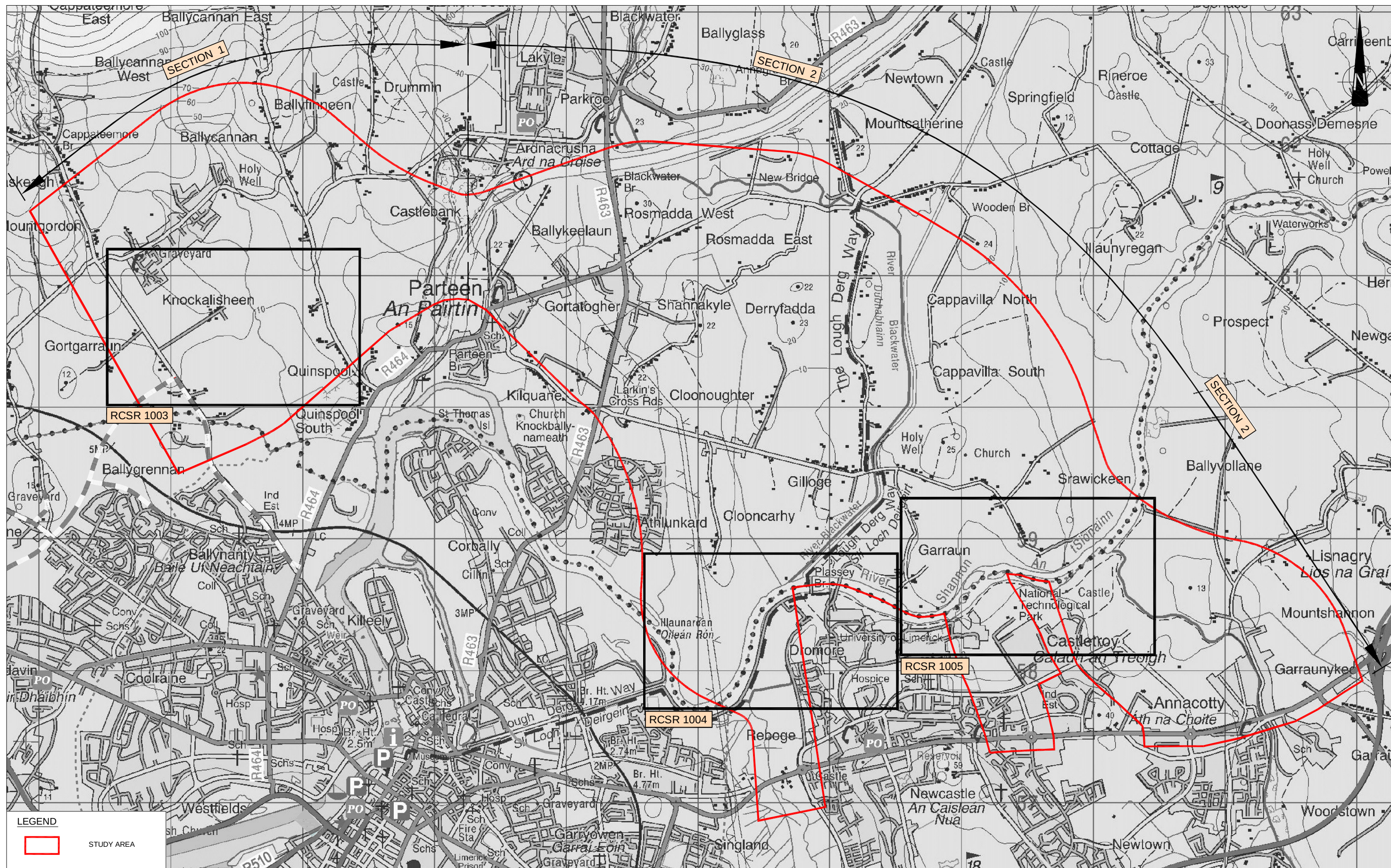
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www.roughanodonovan.com

Project Title
LIMERICK NORTHERN DISTRIBUTOR ROAD

Drawing Title
DESIGNATED SITES FOR NATURE CONSERVATION

Drawn: RE Job No: 10194 Drawing No: RCSR - 1001
Scale: 1:30,000 @ A3 Date: SEPTEMBER 2012 Rev:



LEGEND
 STUDY AREA



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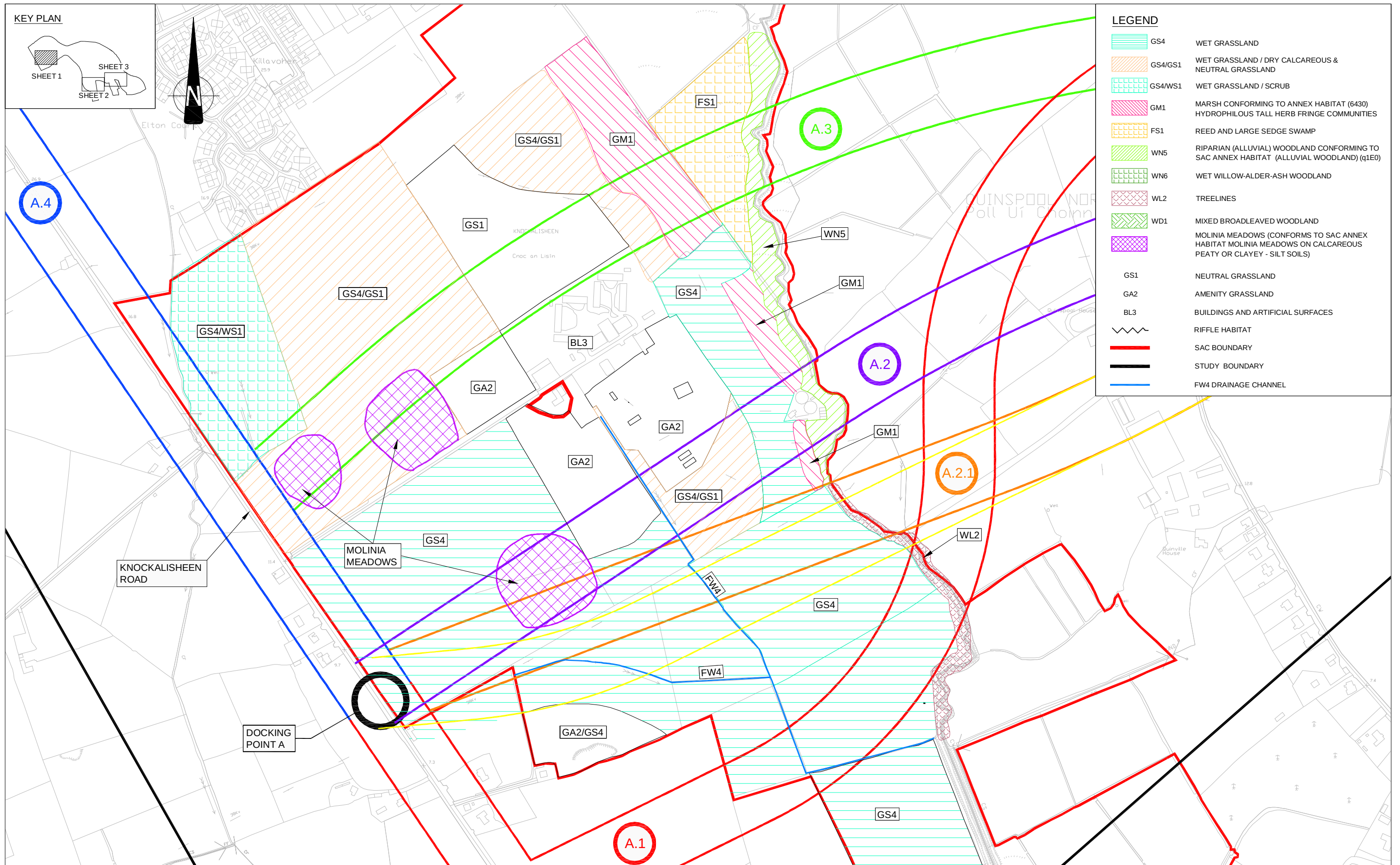
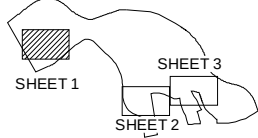
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Project Title
 LIMERICK NORTHERN DISTRIBUTOR ROAD

Drawing Title
 SAC HABITATS KEY PLAN

Drawn: RE	Job No: 10194	Drawing No: RCSR - 1002	Rev:
Scale: 1:30,000 @ A3	Date: SEPTEMBER 2012		

KEY PLAN



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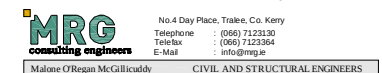


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	Stage				
	PRELIMINARY				
	APPROVAL				
	TENDER				
	CONSTRUCTION				

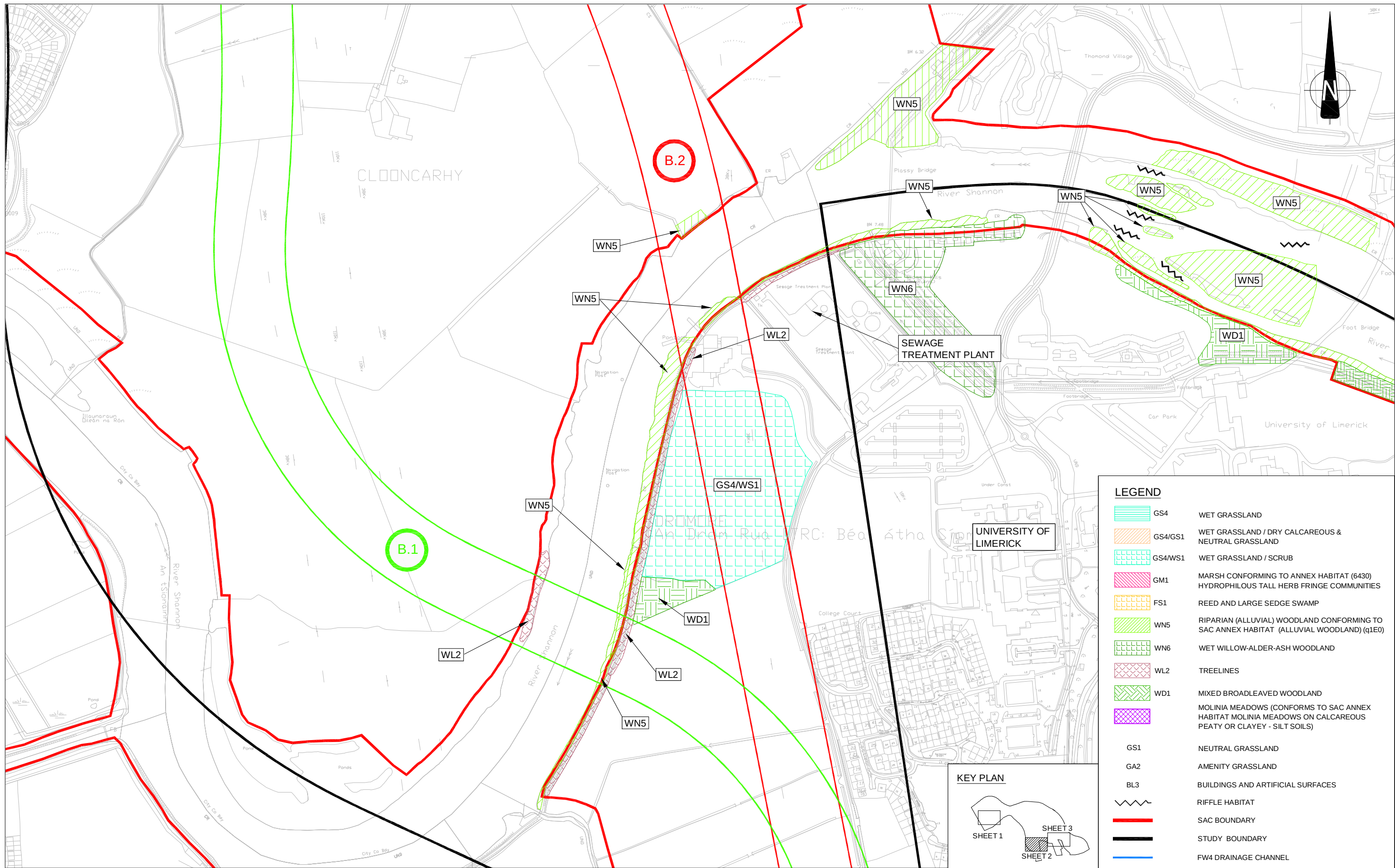


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Project Title	LIMERICK NORTHERN DISTRIBUTOR ROAD			
Drawing Title	SAC HABITAT SHEET 1 OF 3			
Drawn: RE	Job No: 10194	Drawing No: RCSR-1003	Rev:	
Scale: 1:10,000 @ A3	Date: SEPTEMBER 2012			



LEGEND

GS4

GS4/GS1

GS4/WS1

GM1

FS1

WN5

WN6

WL2

WD1

GS1

GA2

BL3

WET GRASSLAND

WET GRASSLAND / DRY CALCAREOUS & NEUTRAL GRASSLAND

WET GRASSLAND / SCRUB

MARSH CONFORMING TO ANNEX HABITAT (6430) HYDROPHILOUS TALL HERB FRINGE COMMUNITIES

REED AND LARGE SEDGE SWAMP

RIPARIAN (ALLUVIAL) WOODLAND CONFORMING TO SAC ANNEX HABITAT (ALLUVIAL WOODLAND) (q1E0)

WET WILLOW-ALDER-ASH WOODLAND

TREELINES

MIXED BROADLEAVED WOODLAND

MOLINIA MEADOWS (CONFORMS TO SAC ANNEX HABITAT MOLINIA MEADOWS ON CALCAREOUS PEATY OR CLAYEY - SILT SOILS)

NEUTRAL GRASSLAND

AMENITY GRASSLAND

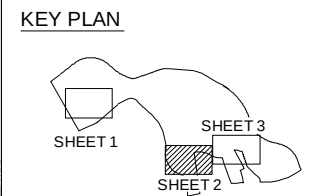
BUILDINGS AND ARTIFICIAL SURFACES

RIFFLE HABITAT

SAC BOUNDARY

STUDY BOUNDARY

FW4 DRAINAGE CHANNEL



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Comhairle Contae an Chláir
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AN ROINN IOMPAIR
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Department of Transport,
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A		Habitats Amended		10-11-11	RE	LF	MC
No.	Revision	Date	By	Chk'd	Date	App'd	
PRELIMINARY							
APPROVAL							
TENDER							
CONSTRUCTION							

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Designed: LF
Checked: MC
Approved: RTP
Status: WORK IN PROGRESS

Project Title
LIMERICK NORTHERN DISTRIBUTOR ROAD

Drawing Title
SAC HABITAT
SHEET 2 OF 3

Drawn: RE
Scale: 1:10,000 @ A3

Job No: 10194
Date: SEPTEMBER 2012

Drawing No: RCSR-1004

Rev:

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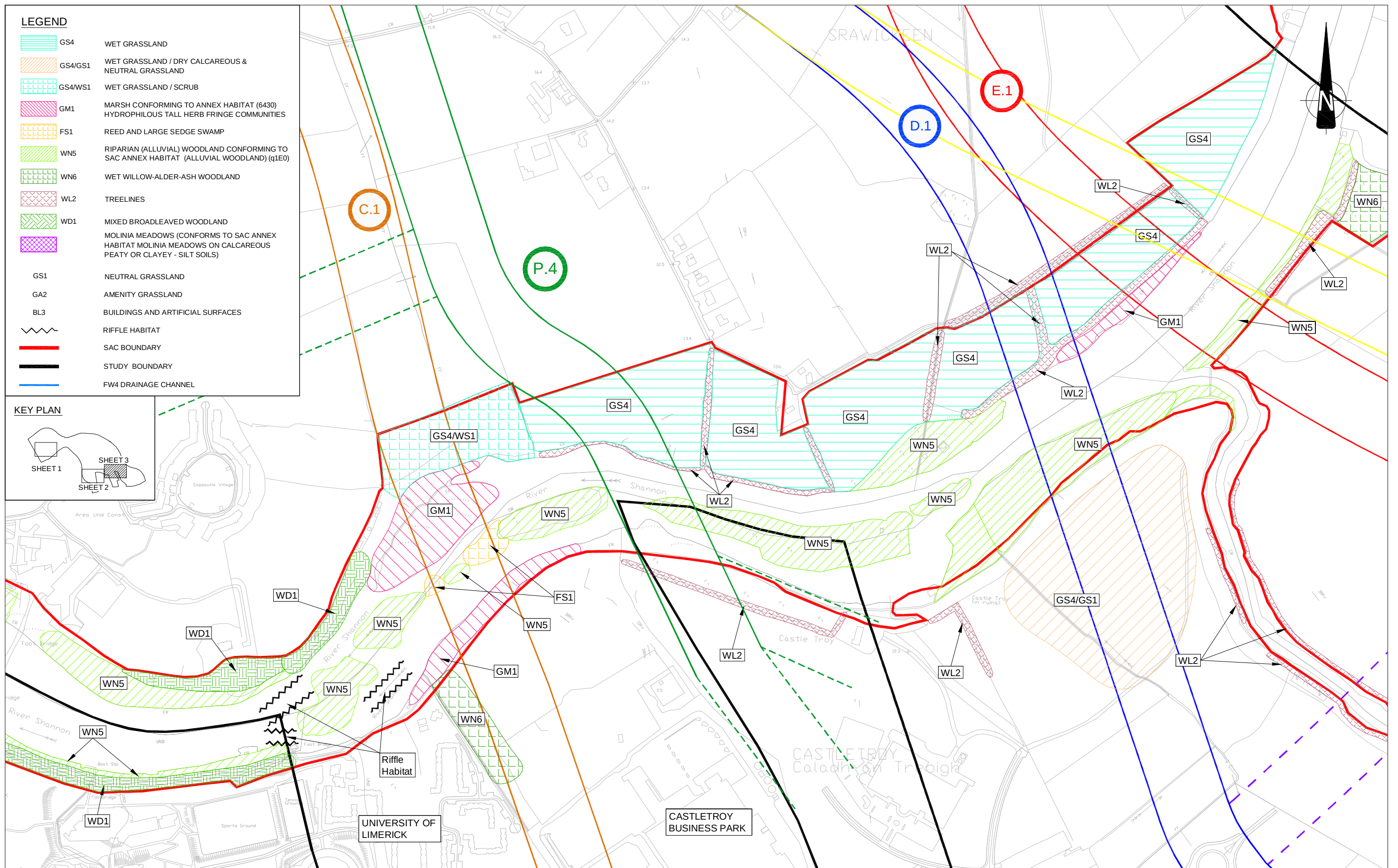
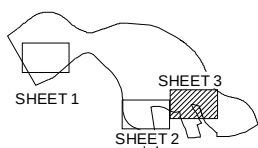
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DO NOT SCALE USE FIGURED DIMENSIONS ONLY

LEGEND

	GS4	WET GRASSLAND
	GS4/GS1	WET GRASSLAND / DRY CALCAREOUS & NEUTRAL GRASSLAND
	GS4/WS1	WET GRASSLAND / SCRUB
	GM1	MARSH CONFORMING TO ANNEX HABITAT (6430) HYDROPHILOUS TALL HERB FRINGE COMMUNITIES
	FS1	REED AND LARGE SEDGE SWAMP
	WN5	RIPARIAN (ALLUVIAL) WOODLAND CONFORMING TO SAC ANNEX HABITAT (ALLUVIAL WOODLAND) (q1E0)
	WN6	WET WILLOW-ALDER-ASH WOODLAND
	WL2	TREELINES
	WD1	MIXED BROADLEAVED WOODLAND
		MOLINIA MEADOWS (CONFORMS TO SAC ANNEX HABITAT MOLINIA MEADOWS ON CALCAREOUS PEATY OR CLAYEY - SILT SOILS)
	GS1	NEUTRAL GRASSLAND
	GA2	AMENITY GRASSLAND
	BL3	BUILDINGS AND ARTIFICIAL SURFACES
		RIFFLE HABITAT
		SAC BOUNDARY
		STUDY BOUNDARY
		FW4 DRAINAGE CHANNEL

KEY PLAN



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	Stage				
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	APPROVAL				
	TENDER				
	CONSTRUCTION				

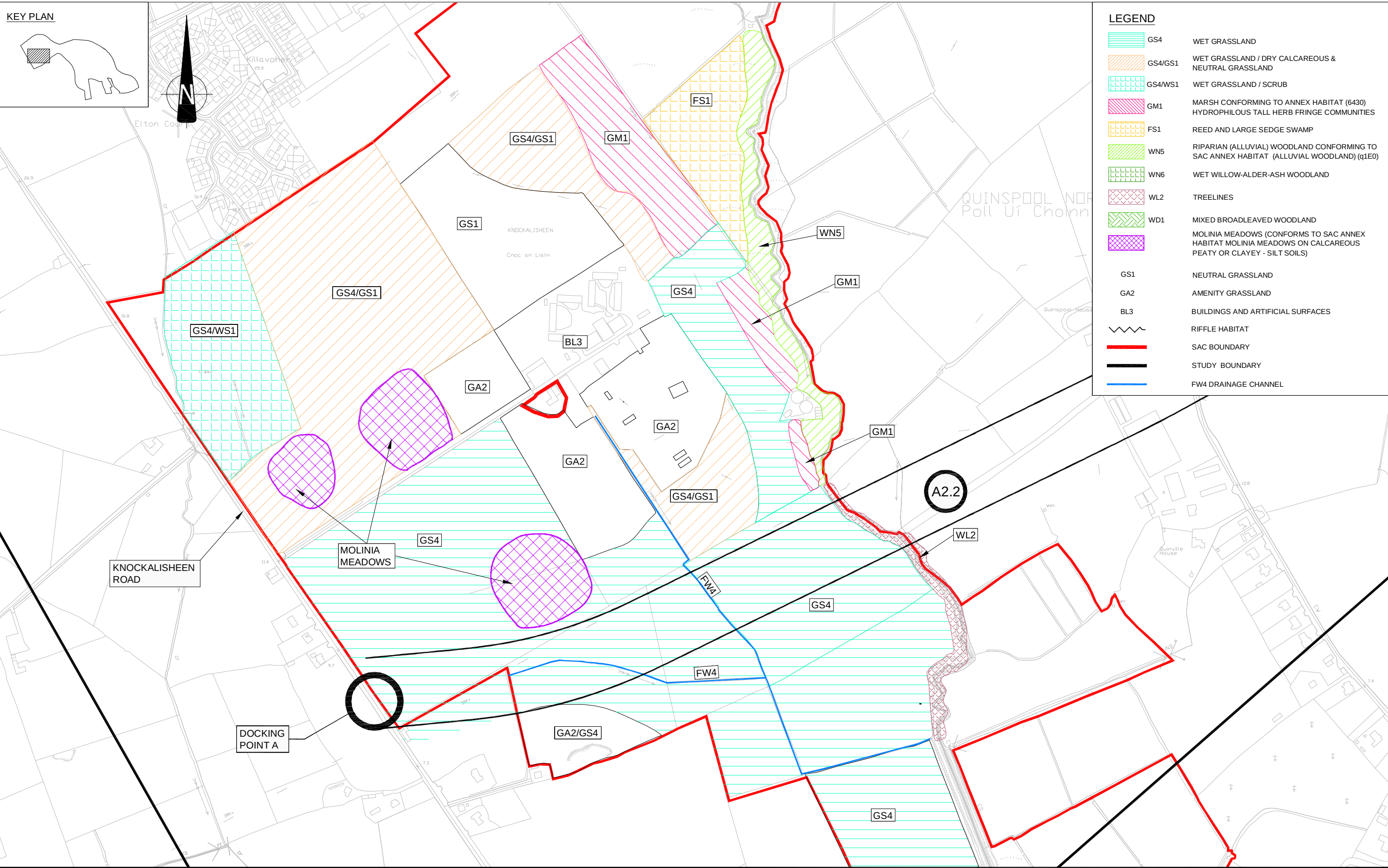
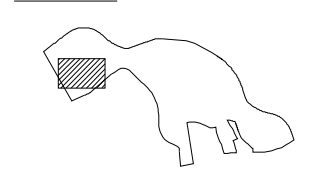
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Project Title LIMERICK NORTHERN DISTRIBUTOR ROAD			
Drawing Title SAC HABITAT SHEET 3 OF 3			
Drawn: RE	Job No: 10194	Drawing No: RCSR-1005	Rev:
Scale: 1:10,000 @ A3	Date: SEPTEMBER 2012		

KEY PLAN



LEGEND

- GS4 WET GRASSLAND
- GS4/GS1 WET GRASSLAND / DRY CALCAREOUS & NEUTRAL GRASSLAND
- GS4/WS1 WET GRASSLAND / SCRUB
- GM1 MARSH CONFORMING TO ANNEX HABITAT (6430) HYDROPHILOUS TALL HERB FRINGE COMMUNITIES
- FS1 REED AND LARGE SEDGE SWAMP
- WN5 RIPARIAN (ALLUVIAL) WOODLAND CONFORMING TO SAC ANNEX HABITAT (ALLUVIAL WOODLAND) (q1E0)
- WN6 WET WILLOW-ALDER-ASH WOODLAND
- WL2 TREELINES
- WD1 MIXED BROADLEAVED WOODLAND
- MOLINIA MEADOWS (CONFORMS TO SAC ANNEX HABITAT MOLINIA MEADOWS ON CALCAREOUS PEATY OR CLAYEY - SILT SOILS)
- GS1 NEUTRAL GRASSLAND
- GA2 AMENITY GRASSLAND
- BL3 BUILDINGS AND ARTIFICIAL SURFACES
- RIFFLE HABITAT
- SAC BOUNDARY
- STUDY BOUNDARY
- FW4 DRAINAGE CHANNEL



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2	APPROVAL				
3	TENDER				
4	CONSTRUCTION				



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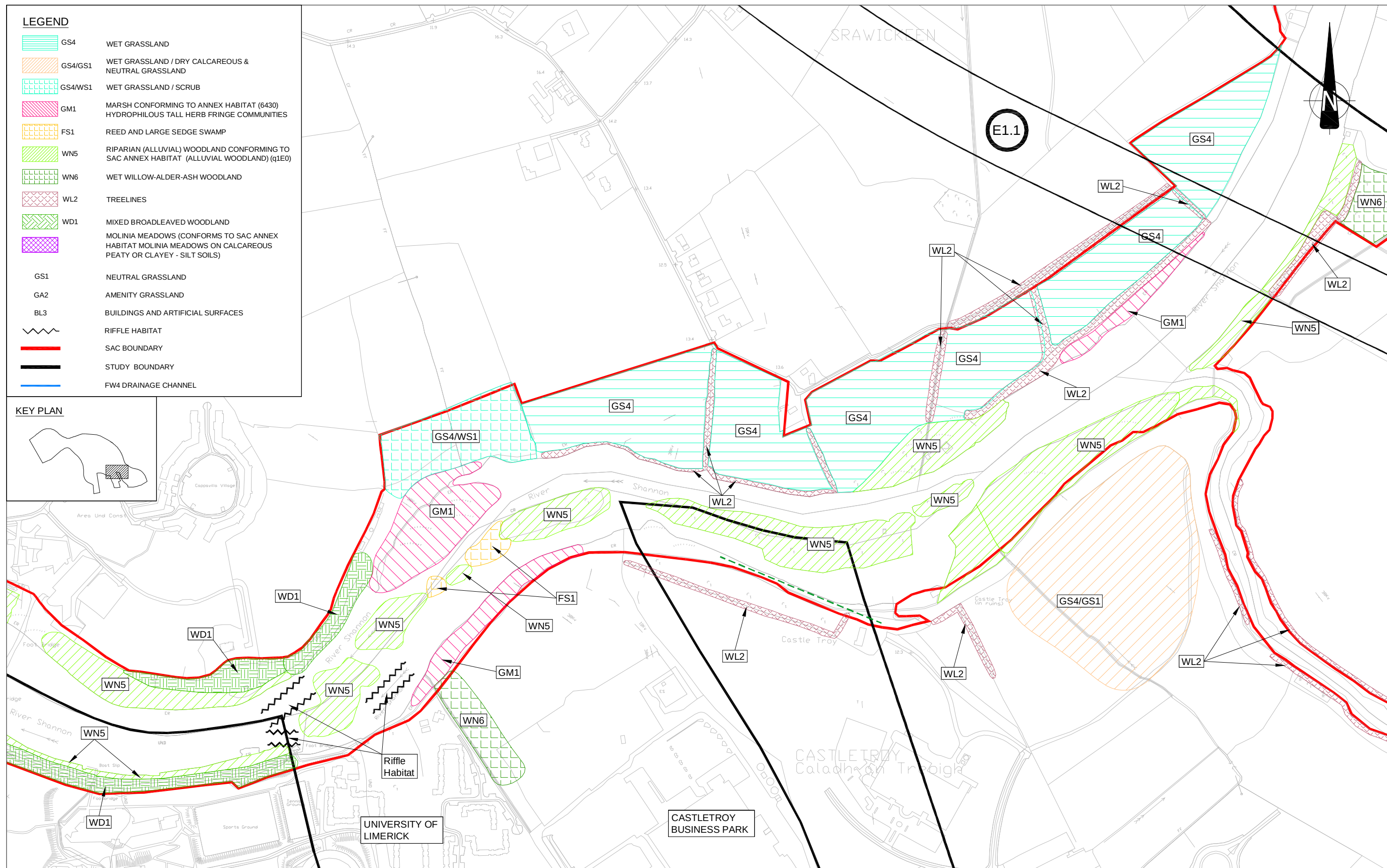
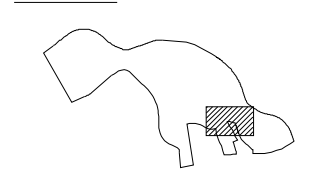
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Project Title			
LIMERICK NORTHERN DISTRIBUTOR ROAD			
Drawing Title			
ADJUSTED ALIGNMENT A2.2 THROUGH KNOCKALISHEEN MARSH			
Drawn:	Job No:	Drawing No:	Rev:
RE	10194	RCSR-1006	
Scale:	Date:		
1:10,000 @ A3	SEPTEMBER 2012		

LEGEND

- GS4 WET GRASSLAND
- GS4/GS1 WET GRASSLAND / DRY CALCAREOUS & NEUTRAL GRASSLAND
- GS4/WS1 WET GRASSLAND / SCRUB
- GM1 MARSH CONFORMING TO ANNEX HABITAT (6430) HYDROPHILOUS TALL HERB FRINGE COMMUNITIES
- FS1 REED AND LARGE SEDGE SWAMP
- WN5 RIPARIAN (ALLUVIAL) WOODLAND CONFORMING TO SAC ANNEX HABITAT (ALLUVIAL WOODLAND) (q1E0)
- WN6 WET WILLOW-ALDER-ASH WOODLAND
- WL2 TREELINES
- WD1 MIXED BROADLEAVED WOODLAND
- MOLINIA MEADOWS (CONFORMS TO SAC ANNEX HABITAT MOLINIA MEADOWS ON CALCAREOUS PEATY OR CLAYEY - SILT SOILS)
- GS1 NEUTRAL GRASSLAND
- GA2 AMENITY GRASSLAND
- BL3 BUILDINGS AND ARTIFICIAL SURFACES
- RIFFLE HABITAT
- SAC BOUNDARY
- STUDY BOUNDARY
- FW4 DRAINAGE CHANNEL

KEY PLAN



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	CONSTRUCTION				



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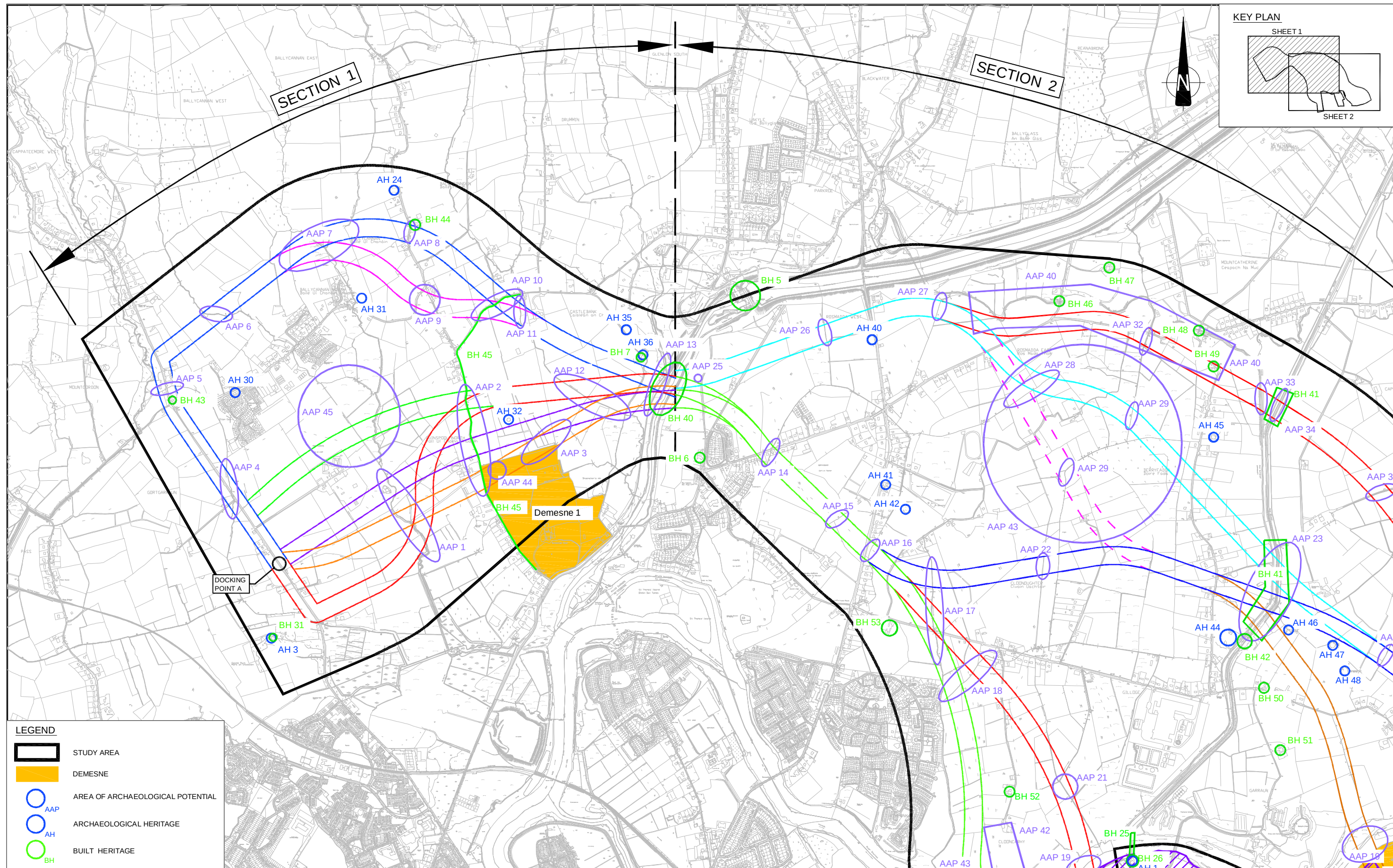


Designed: LF Checked: MC Approved: RTP Status: WORK IN PROGRESS

Project Title
LIMERICK NORTHERN DISTRIBUTOR ROAD

Drawing Title
ADJUSTED ALIGNMENT E1.1
ACROSS LOWER RIVER SHANNON SAC

Drawn: RE Job No: 10194 Drawing No: RCSR-1007
Scale: 1:10,000 @ A3 Date: SEPTEMBER 2012 Rev:



LEGEND

- STUDY AREA
- DEMESNE
- AREA OF ARCHAEOLOGICAL POTENTIAL
- AAP
- ARCHAEOLOGICAL HERITAGE
- AH
- BUILT HERITAGE
- BH

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

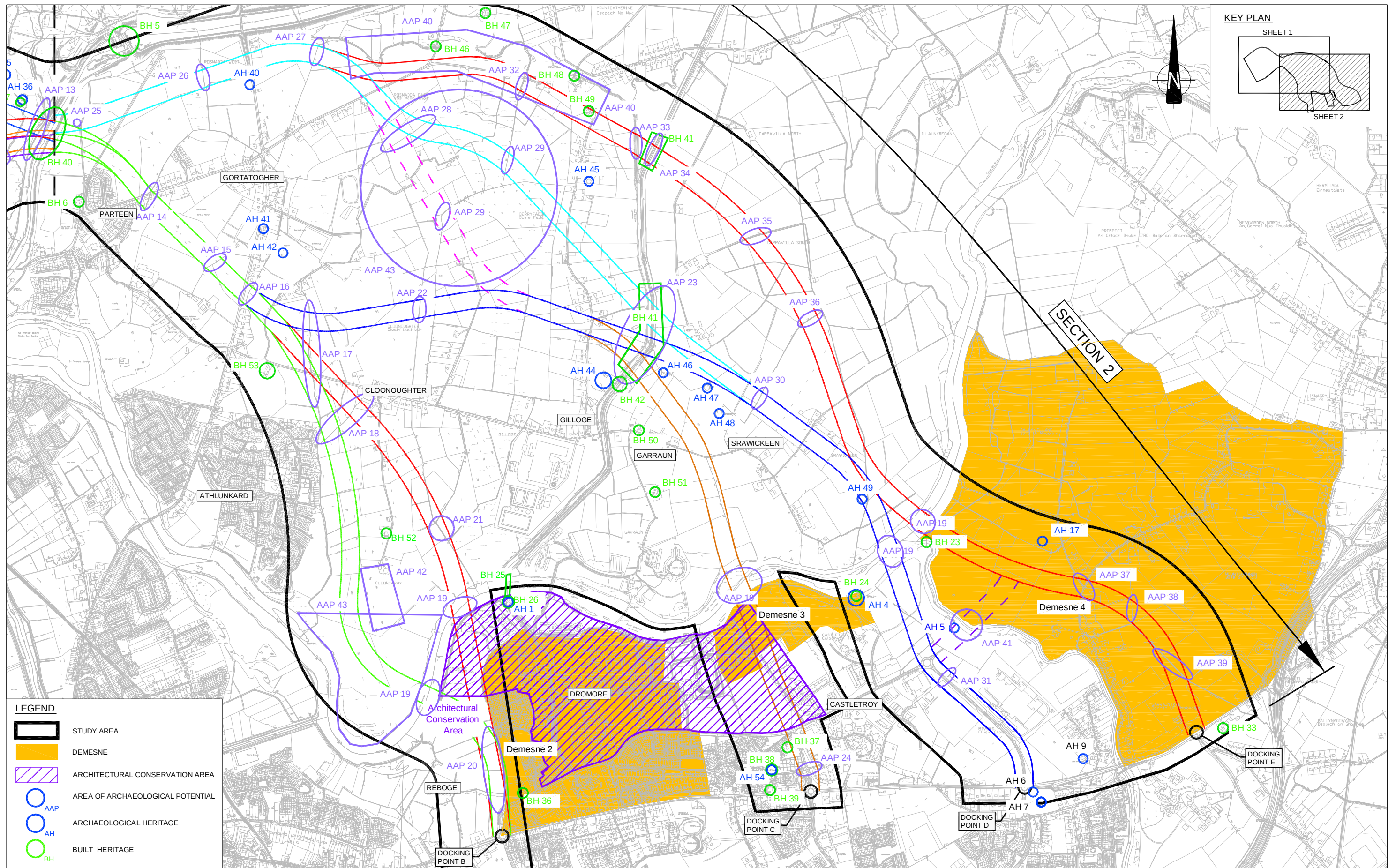
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CIVIL AND STRUCTURAL ENGINEERS

Project Title: LIMERICK NORTHERN DISTRIBUTOR ROAD

Drawing Title: ARCHAEOLOGY & CULTURAL HERITAGE SHEET 1 OF 2

Drawn:	RE	Job No:	10194	Drawing No:	RCSR-1101	Rev:
Scale:	1:20,000 @ A3	Date:	SEPTEMBER 2012			



LEGEND

- STUDY AREA
- DEMESNE
- ARCHITECTURAL CONSERVATION AREA
- AREA OF ARCHAEOLOGICAL POTENTIAL
- AAP
- ARCHAEOLOGICAL HERITAGE
- AH
- BUILT HERITAGE
- BH



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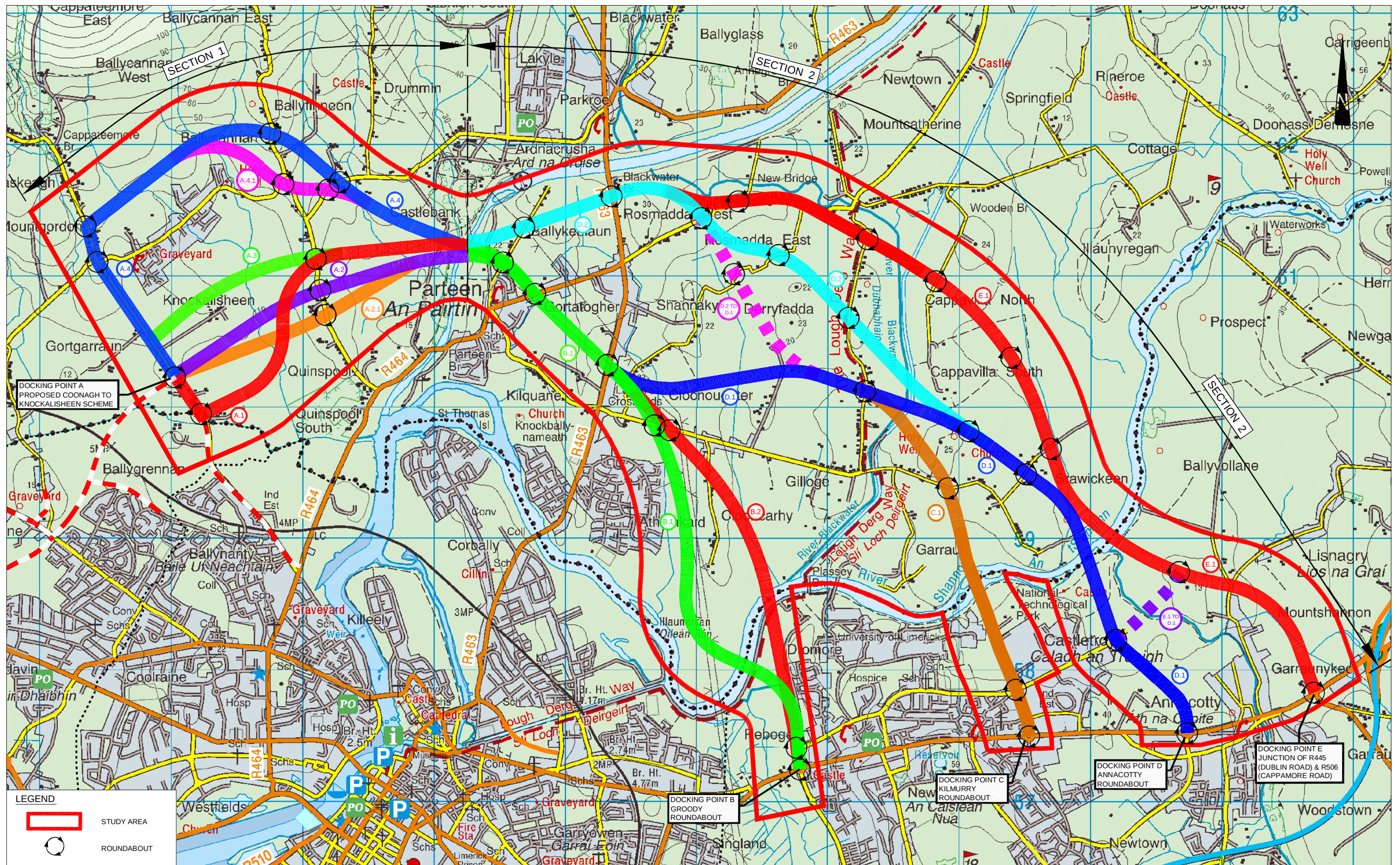


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Project Title		LIMERICK NORTHERN DISTRIBUTOR ROAD	
Drawing Title		ARCHAEOLOGY & CULTURAL HERITAGE SHEET 2 OF 2	
Drawn: RE	Job No: 10194	Drawing No: RCSR-1102	Rev:
Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		



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1	PRELIMINARY				
2	APPROVAL				
3	TENDER				
4	CONSTRUCTION				

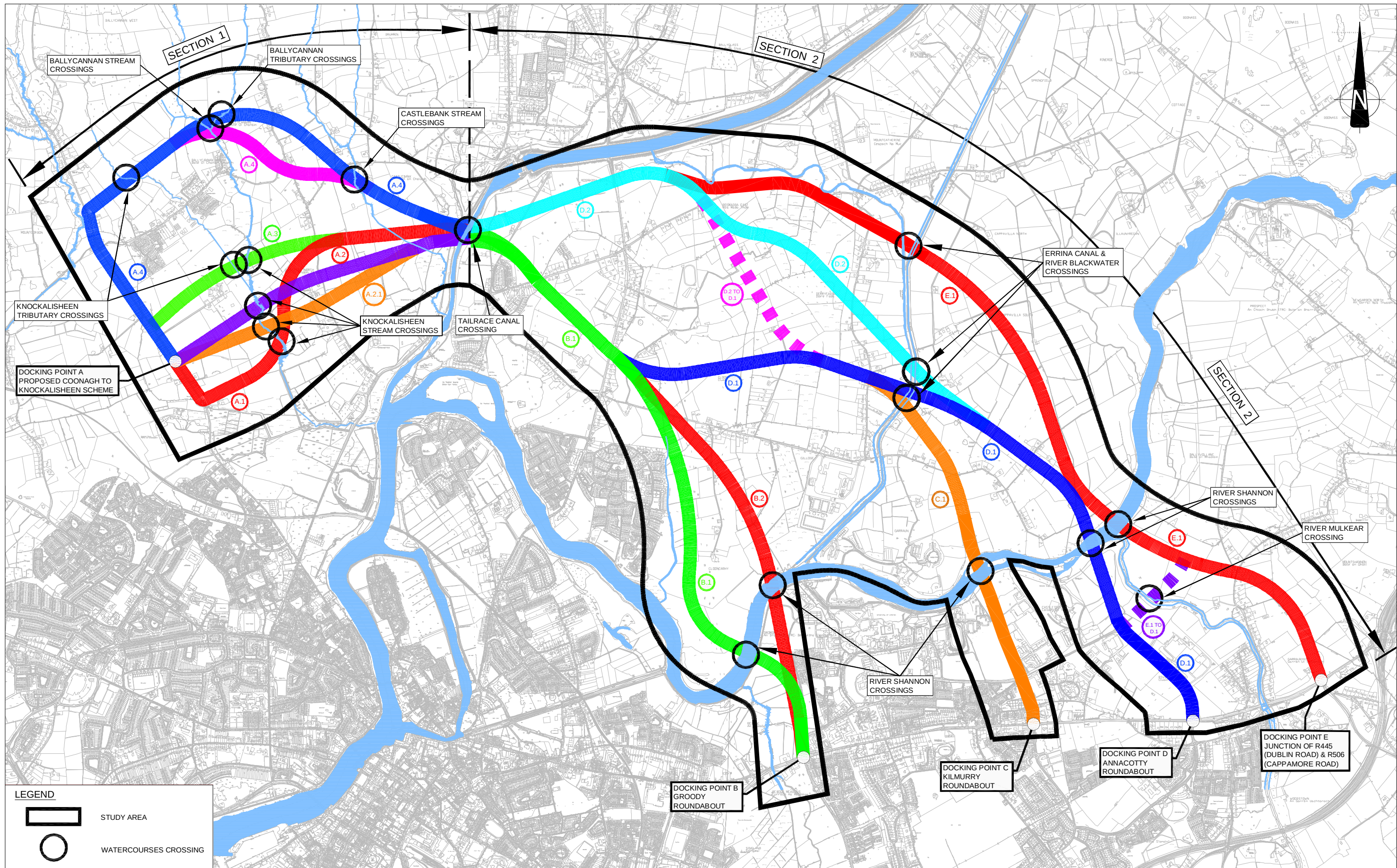
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LF	MC	RTP	WORK IN PROGRESS

Project Title: LIMERICK NORTHERN DISTRIBUTOR ROAD

Drawing Title: POSSIBLE JUNCTION LOCATIONS

Drawn: RE Job No: 10194 Drawing No: RCSR-1401

Scale: 1:30,000 @ A3 Date: SEPTEMBER 2012



LEGEND

 STUDY AREA

 WATERCOURSES CROSSING



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APPROVAL					
TENDER					
CONSTRUCTION					



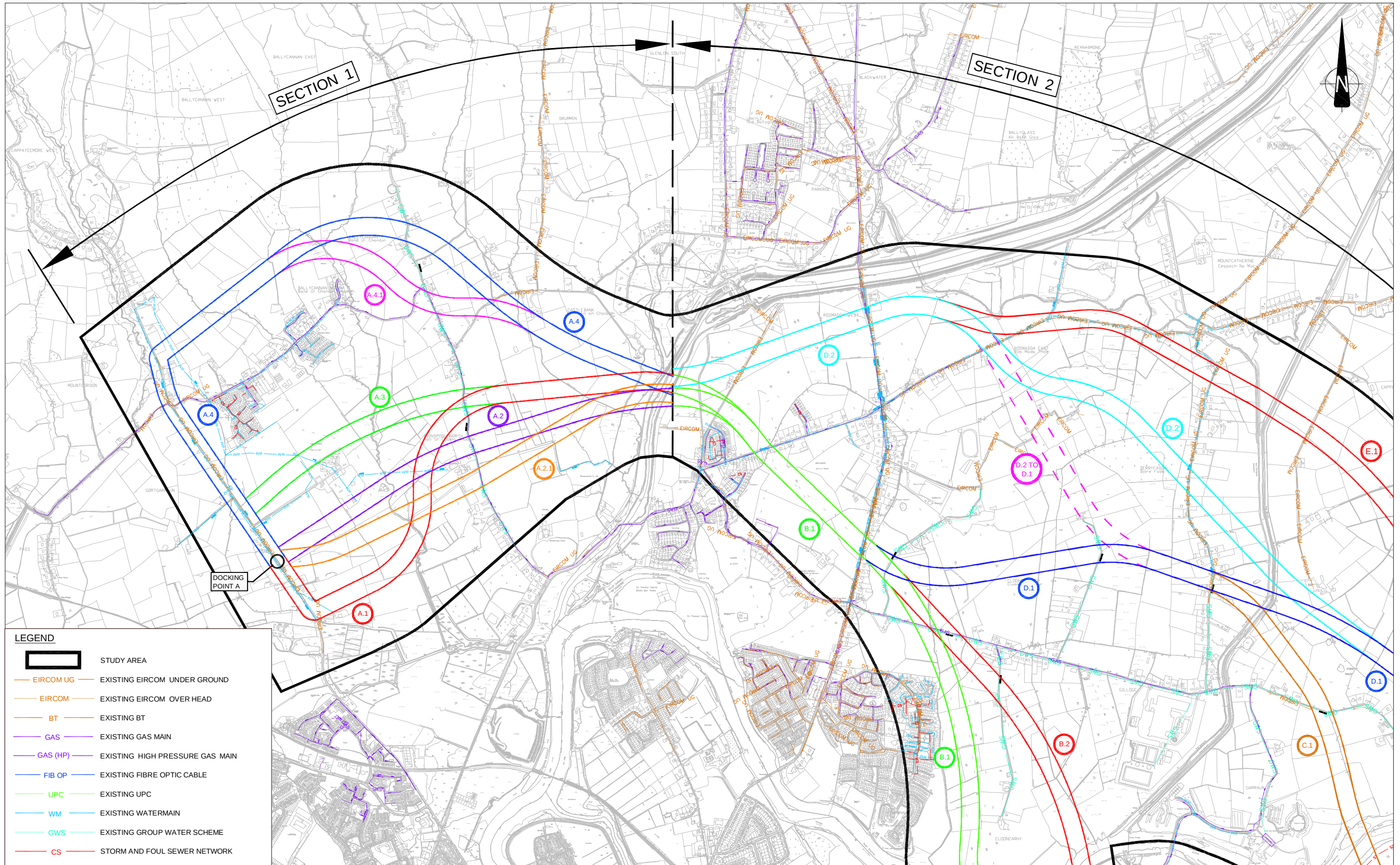
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Project Title LIMERICK NORTHERN DISTRIBUTOR ROAD			
Drawing Title RIVER BRIDGE LOCATION PLAN			
Drawn: RE	Job No: 10194	Drawing No: RCSR-1402	Rev:
Scale: 1:30,000 @ A3	Date: SEPTEMBER 2012		



- LEGEND**
- STUDY AREA
 - EXISTING EIRCOM UNDER GROUND
 - EXISTING EIRCOM OVER HEAD
 - EXISTING BT
 - EXISTING GAS MAIN
 - EXISTING HIGH PRESSURE GAS MAIN
 - EXISTING FIBRE OPTIC CABLE
 - EXISTING UPC
 - EXISTING WATERMAIN
 - EXISTING GROUP WATER SCHEME
 - STORM AND FOUL SEWER NETWORK



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	Stage				
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TENDER					
CONSTRUCTION					

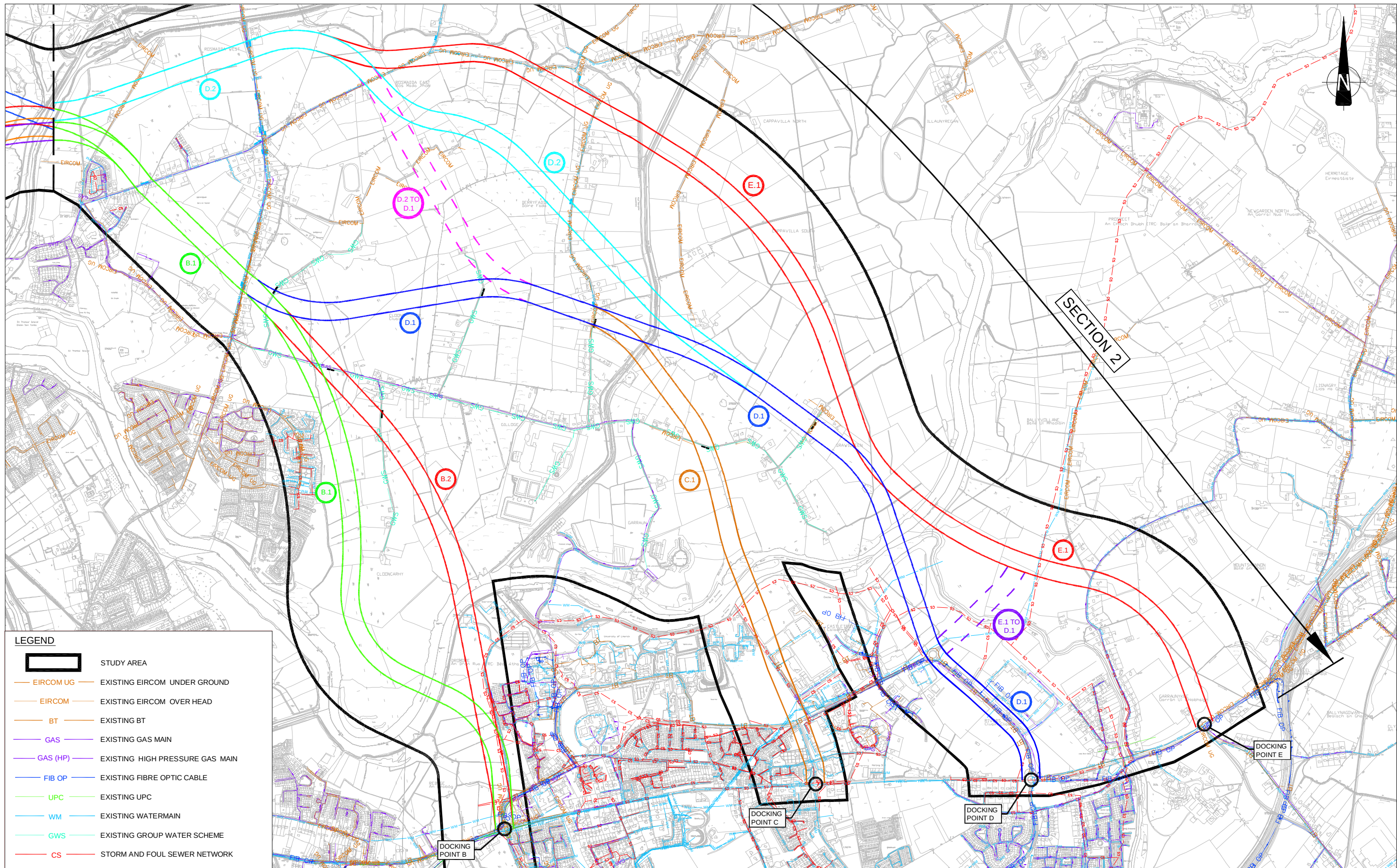
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Designed: LF Checked: MC Approved: RTP Status: WORK IN PROGRESS

Project Title LIMERICK NORTHERN DISTRIBUTOR ROAD			
Drawing Title UTILITIES (EXCLUDING ELECTRICITY SUPPLY) SHEET 1 OF 2			
Drawn: RE	Job No: 10194	Drawing No: RCSR-1403	Rev:
Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		





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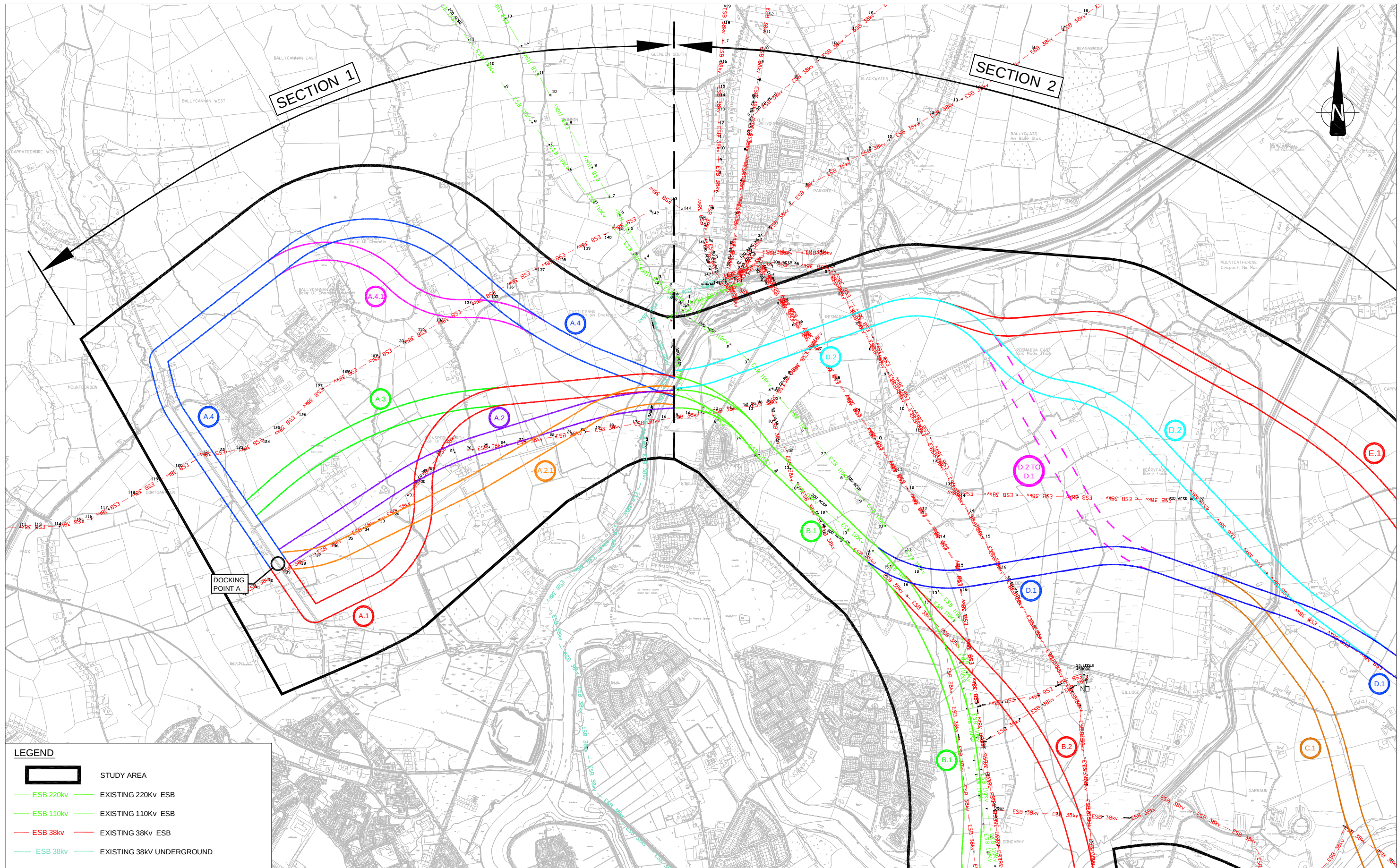
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Project Title	
LIMERICK NORTHERN DISTRIBUTOR ROAD	
Drawing Title	
UTILITIES (EXCLUDING ELECTRICITY SUPPLY) SHEET 2 OF 2	
Drawn: RE	Job No: 10194
Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012
Drawing No: RCSR-1404	Rev:



LEGEND

- STUDY AREA
- EXISTING 220kV ESB
- EXISTING 110kV ESB
- EXISTING 38kV ESB
- EXISTING 38kV UNDERGROUND



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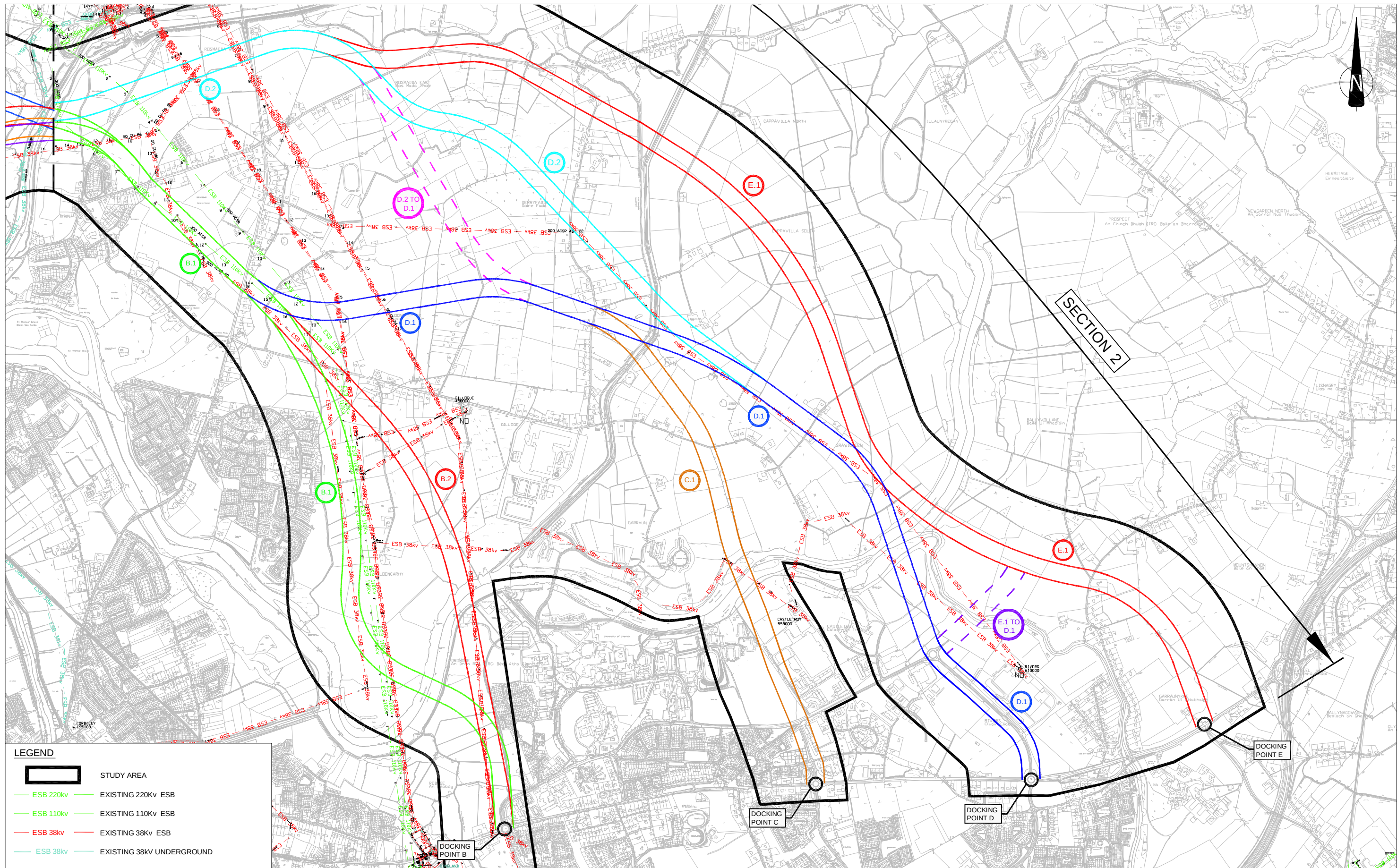
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Project Title
LIMERICK NORTHERN DISTRIBUTOR ROAD

Drawing Title
ELECTRICITY SUPPLY (HIGH VOLTAGE)
SHEET 1 OF 2

Drawn: RE	Job No: 10194	Drawing No: RCSR-1405	Rev:
Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		



LEGEND

- STUDY AREA
- EXISTING 220kV ESB
- EXISTING 110kV ESB
- EXISTING 38kV ESB
- EXISTING 38kV UNDERGROUND

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	TENDER				
	CONSTRUCTION				

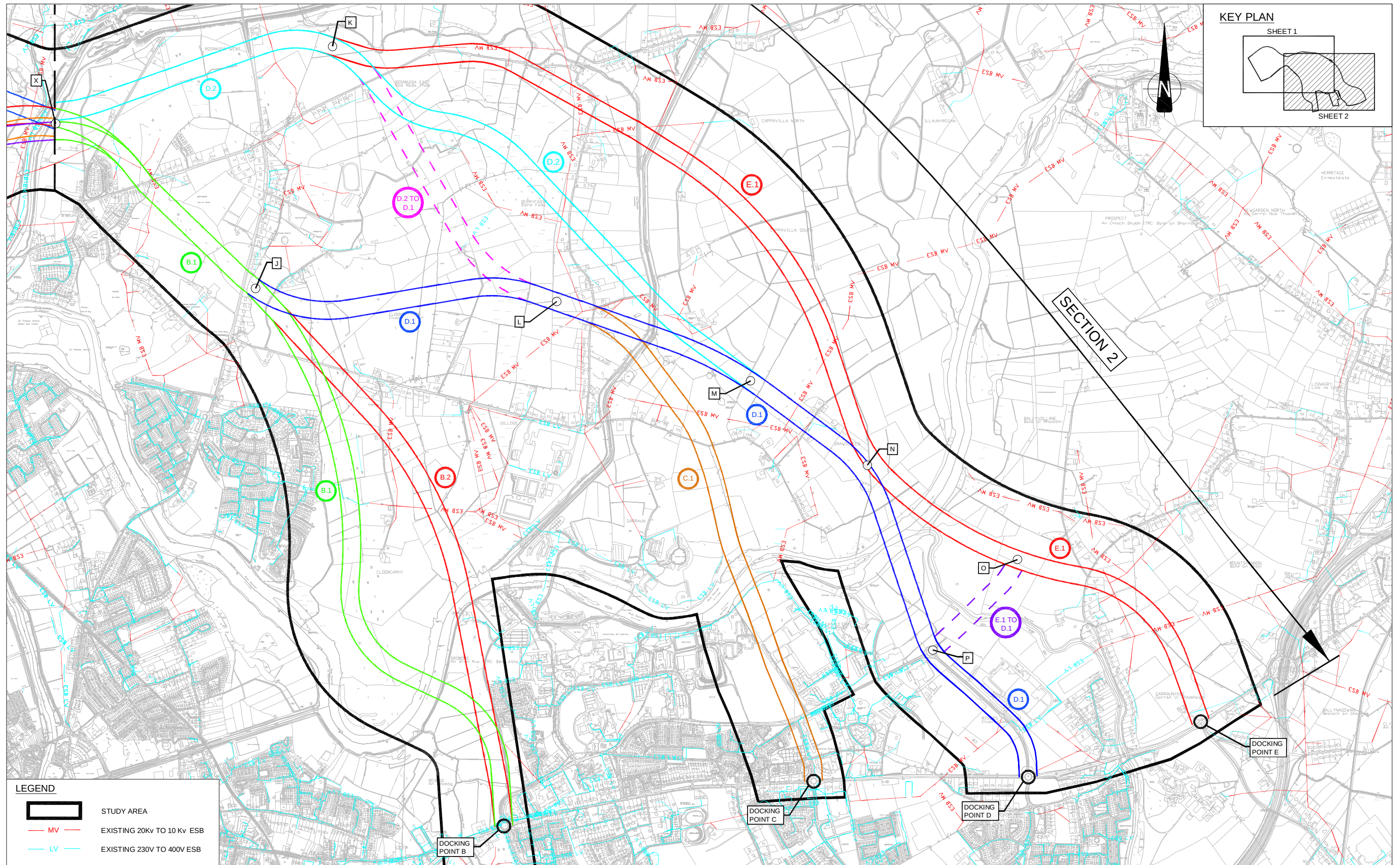
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CIVIL AND STRUCTURAL ENGINEERS

Designed:	LF	Checked:	MC	Approved:	RTP	Status:	WORK IN PROGRESS
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Project Title		LIMERICK NORTHERN DISTRIBUTOR ROAD					
Drawing Title		ELECTRICITY SUPPLY (HIGH VOLTAGE) SHEET 2 OF 2					
Drawn:	RE	Job No:	10194	Drawing No:	RCSR-1406	Rev:	
Scale:	1:20,000 @ A3	Date:	SEPTEMBER 2012				

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND

- STUDY AREA
- MV EXISTING 20kV TO 10 kV ESB
- LV EXISTING 230V TO 400V ESB

LIMERICK CITY COUNCIL
COMHAIRLE CATHRACH LUIMNIGH

An Roinn Iompair
Turasóireachta agus Spóirt
Department of Transport,
Tourism and Sport

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

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Designed:	Checked:	Approved:	Status:
LF	MC	RTP	WORK IN PROGRESS

Project Title			
LIMERICK NORTHERN DISTRIBUTOR ROAD			
Drawing Title			
ELECTRICITY SUPPLY (MEDIUM AND LOW VOLTAGE) SHEET 2 OF 2			
Drawn:	Job No:	Drawing No:	Rev:
RE	10194	RCSR-1408	
Scale:	Date:		
1:20,000 @ A3	SEPTEMBER 2012		