

Drainage





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A B C D E F G H I J K L M N O P

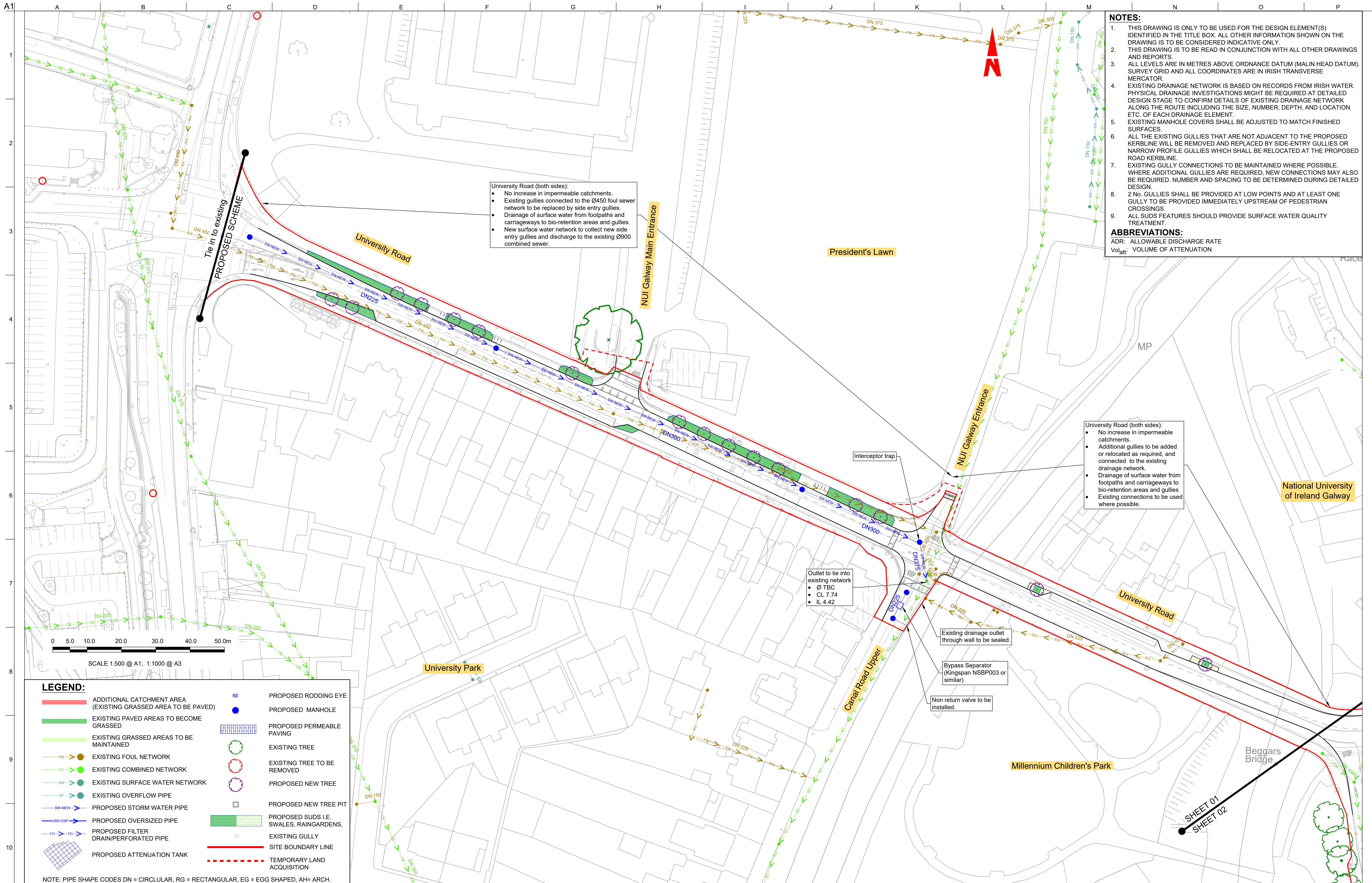


**Proposed Legend:**

- Cross City Bus Priority Link
- City Centre Access Network
- Inner City Access Route

Figure 4.2 - Refer to Galway Transport Strategy Report





**NOTES:**

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9. ALL SUDS FEATURES SHOULD PROVIDE SURFACE WATER QUALITY TREATMENT.

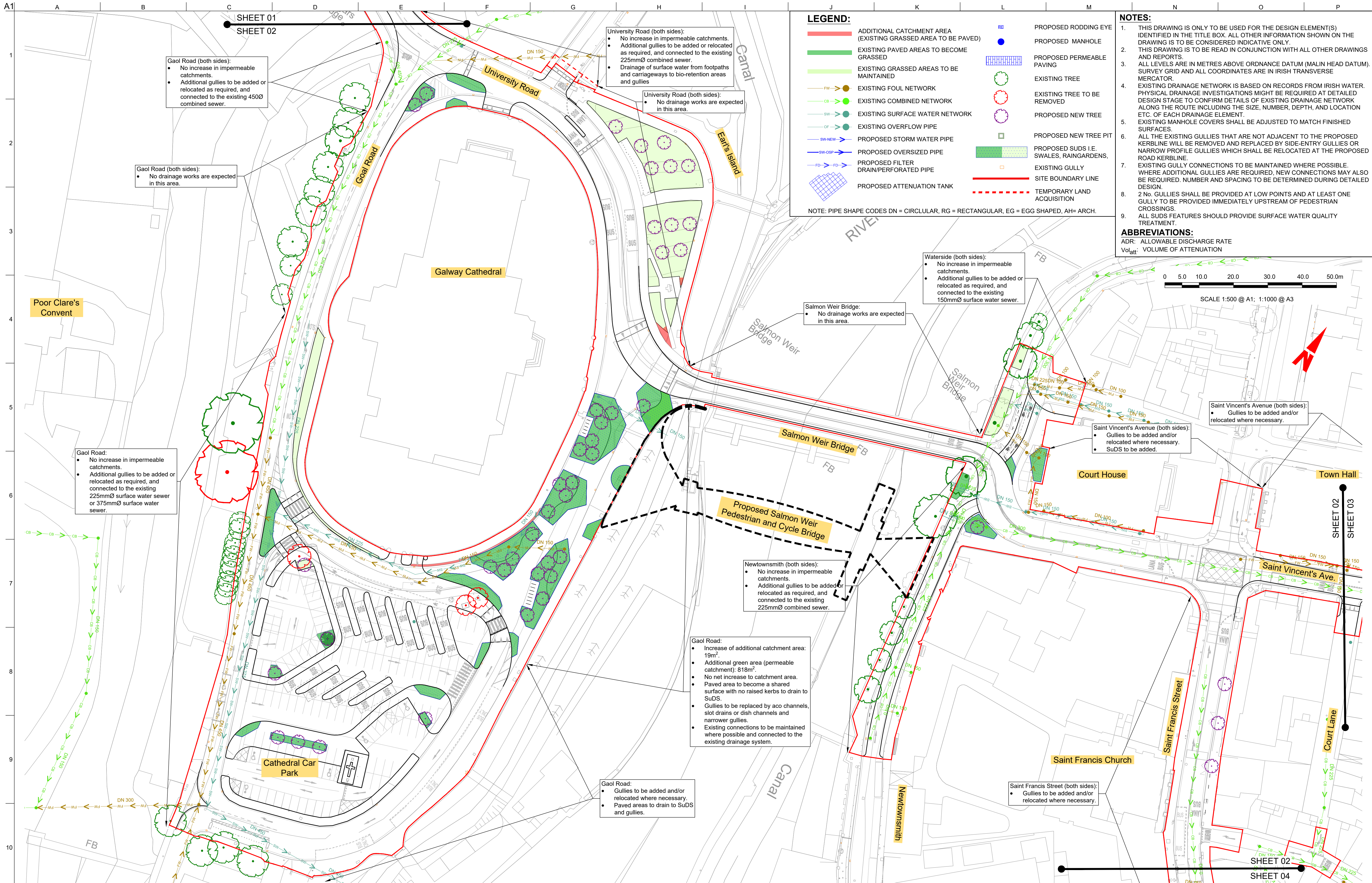
**ABBREVIATIONS:**  
ADR: ALLOWABLE DISCHARGE RATE  
Volatt: VOLUME OF ATTENUATION

**LEGEND:**

	ADDITIONAL CATCHMENT AREA (EXISTING GRASSED AREA TO BE PAVED)		PROPOSED RODDING EYE
	EXISTING PAVED AREAS TO BECOME GRASSED		PROPOSED MANHOLE
	EXISTING GRASSED AREAS TO BE MAINTAINED		PROPOSED PERMEABLE PAVING
	EXISTING FOUL NETWORK		EXISTING TREE
	EXISTING COMBINED NETWORK		EXISTING TREE TO BE REMOVED
	EXISTING SURFACE WATER NETWORK		PROPOSED NEW TREE
	EXISTING OVERFLOW PIPE		PROPOSED NEW TREE PIT
	PROPOSED STORM WATER PIPE		PROPOSED SUDS I.E. SWALES, RAINGARDENS.
	PROPOSED OVERSIZED PIPE		EXISTING GULLY
	PROPOSED FILTER DRAIN/PERFORATED PIPE		SITE BOUNDARY LINE
	PROPOSED ATTENUATION TANK		TEMPORARY LAND ACQUISITION

NOTE: PIPE SHAPE CODES DN = CIRCLULAR, RG = RECTANGULAR, EG = EGG SHAPED, AH= ARCH.





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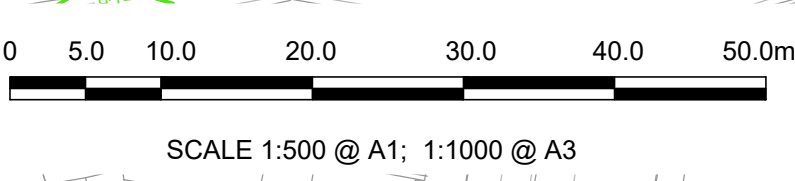
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National Transport Authority

PL01	31/08/22	DS	MR	DMcD
Issue for Planning				
Rev	Date	By	Chkd	Appd

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Arup, One Albert Quay,  
Cork, T12 X8N6, Ireland  
Tel +353 (0)21 422 3200 Fax +353 (0)1 668 3169  
www.arup.ie

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**Galway City Council**

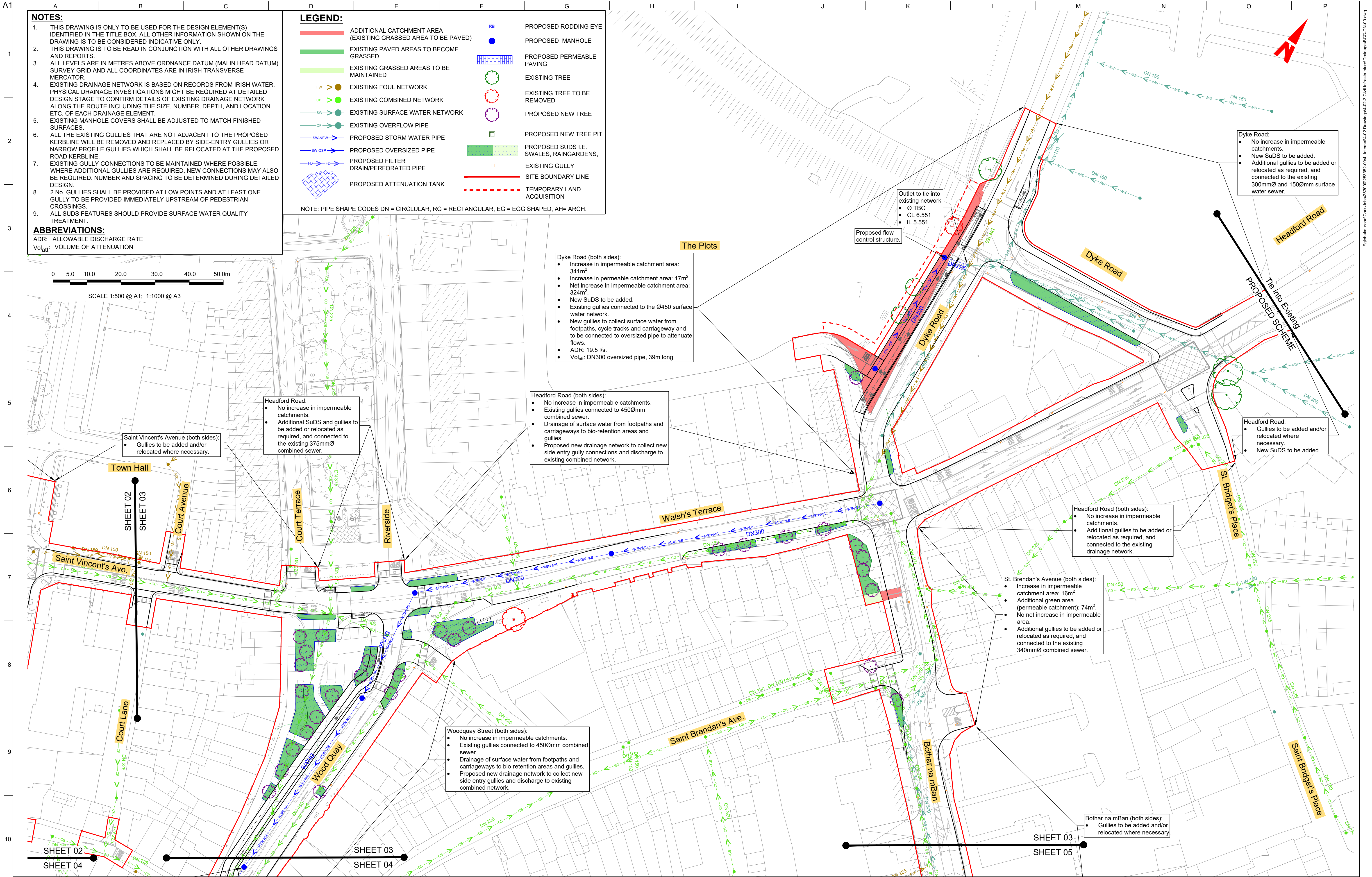
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**BusConnects Galway: Cross-City Link (University Road to Dublin Road)**

Drawing Title  
**Proposed Surface Water Drainage Works Sheet 02 of 13**

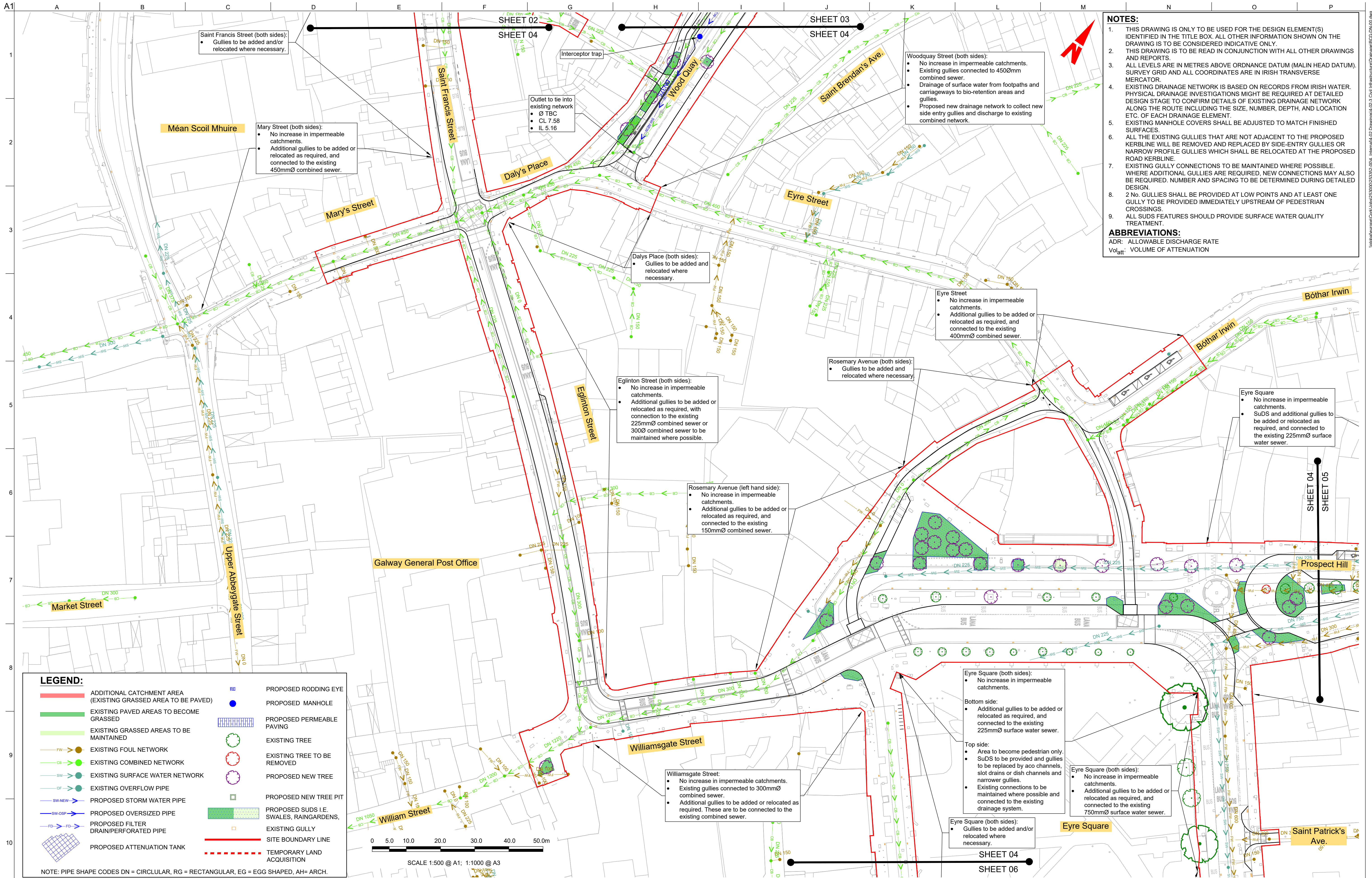
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1:500 @ A1 ( 1:1000 @ A3)

Role	Transport Infrastructure
Suitability	Planning
Arup Job No	253352-00
Name	BCG-DN-00-02
Rev	PL01









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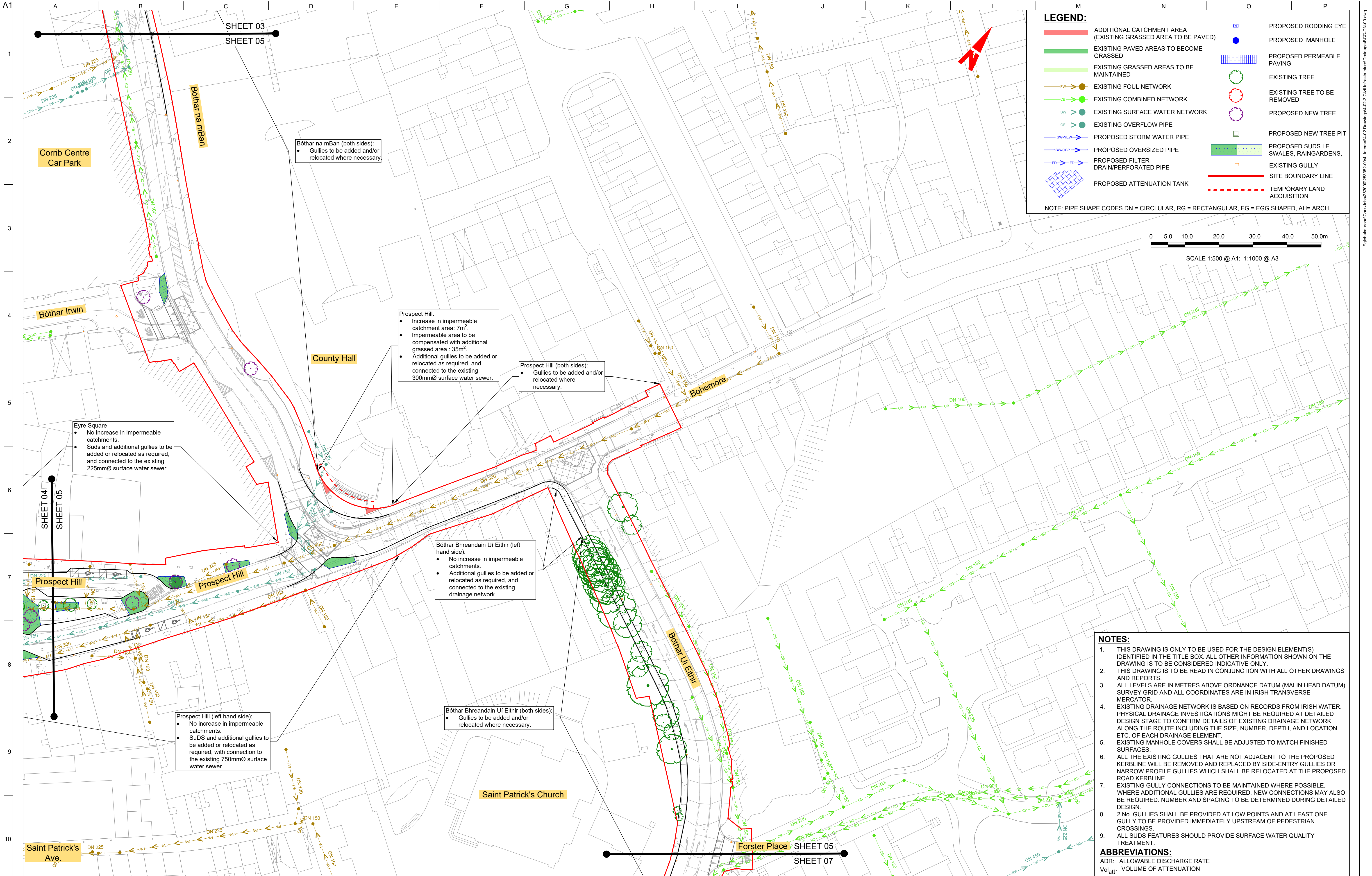
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PL01	31/08/22	DS	MR	DMcD
Issue for Planning				
Rev	Date	By	Chkd	Appd

Arup, One Albert Quay,  
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Client  
Galway City Council

Project Title  
BusConnects Galway:  
Cross-City Link  
(University Road to Dublin Road)

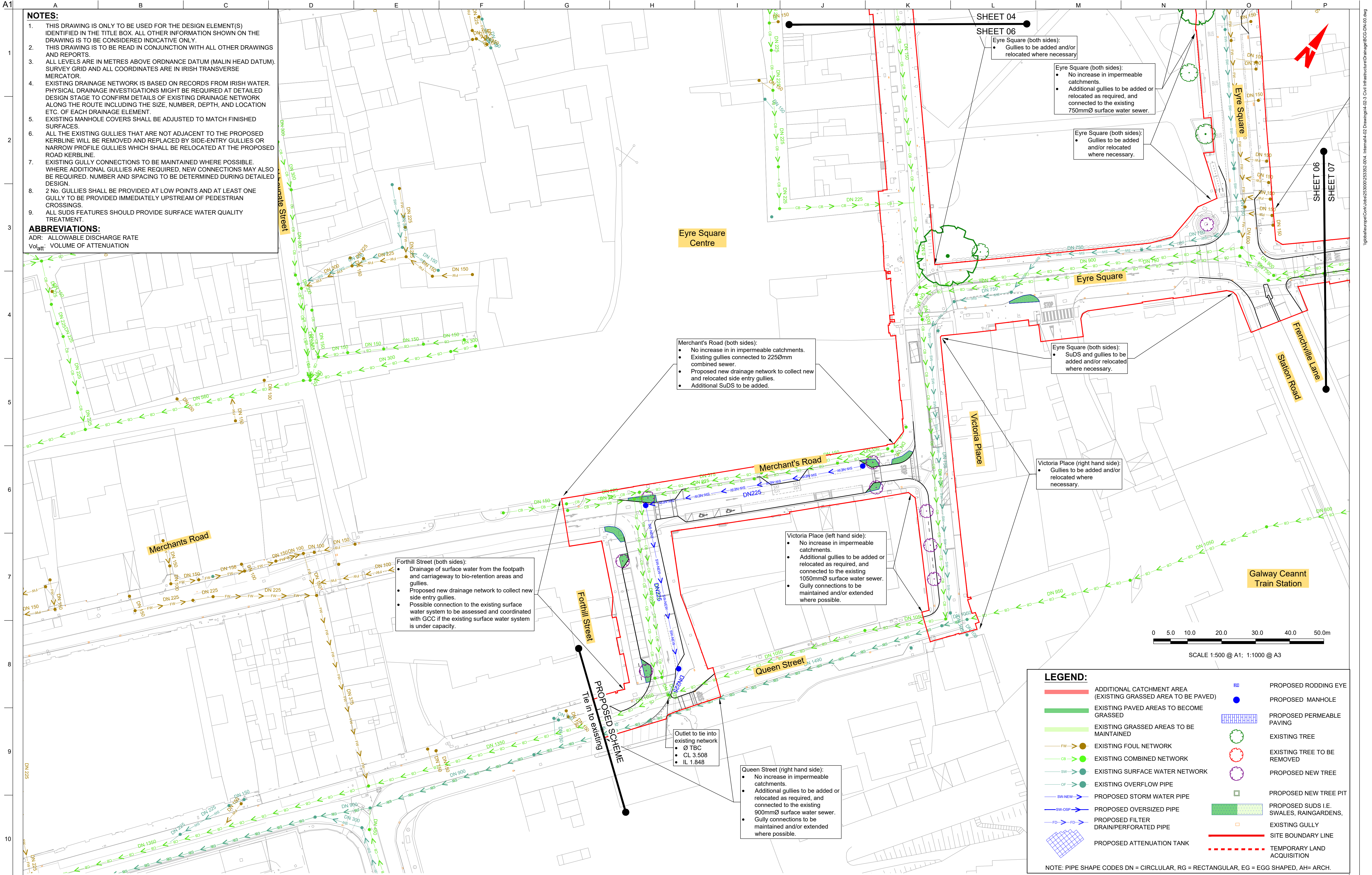
Drawing Title  
Proposed Surface Water  
Drainage Works  
Sheet 05 of 13

Scale at A1  
1:500 @ A1 ( 1:1000 @ A3)

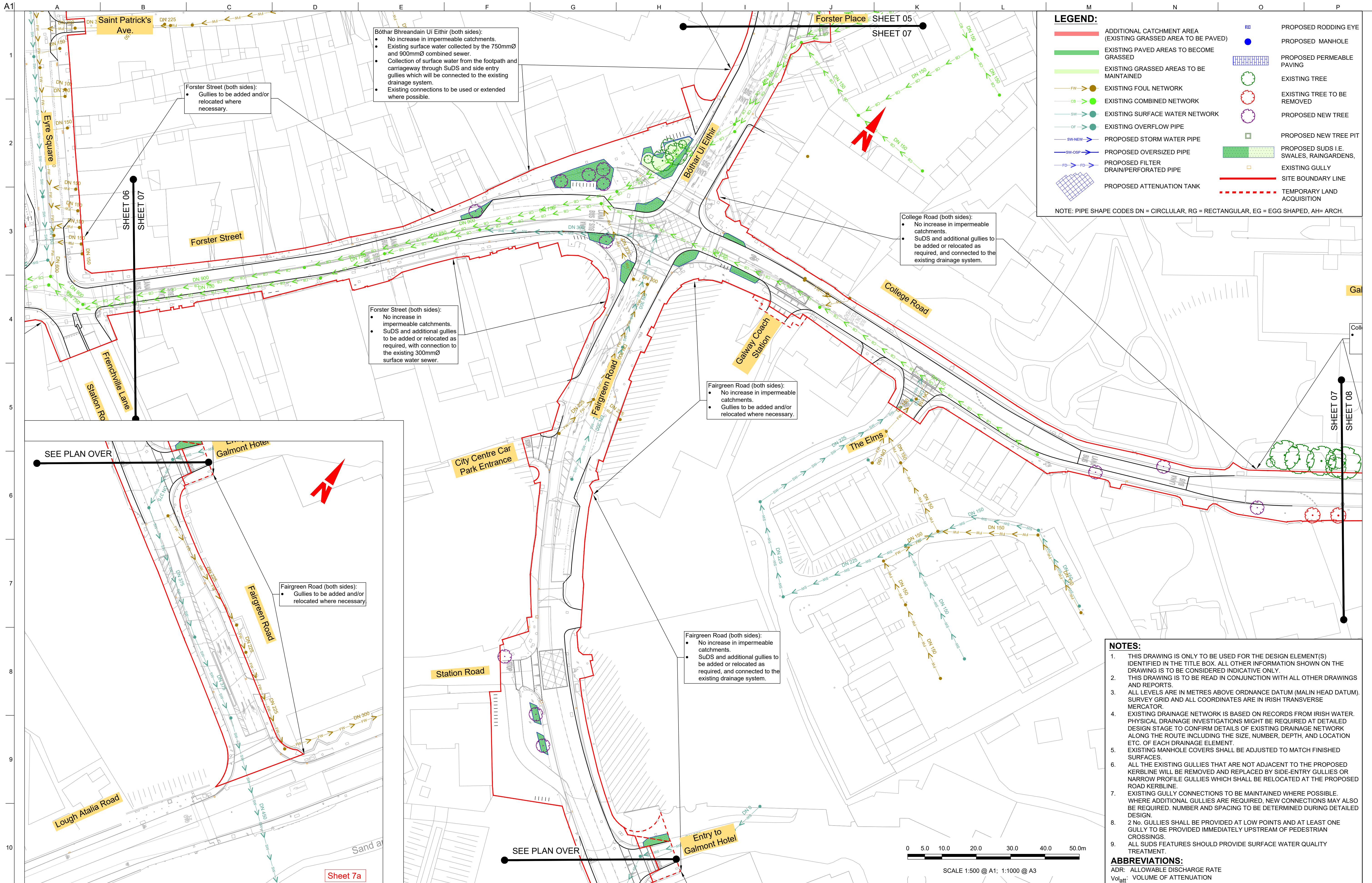
Role	Transport Infrastructure
Suitability	Planning
Arup Job No	253352-00
Name	BCG-DN-00-05
Rev	PL01

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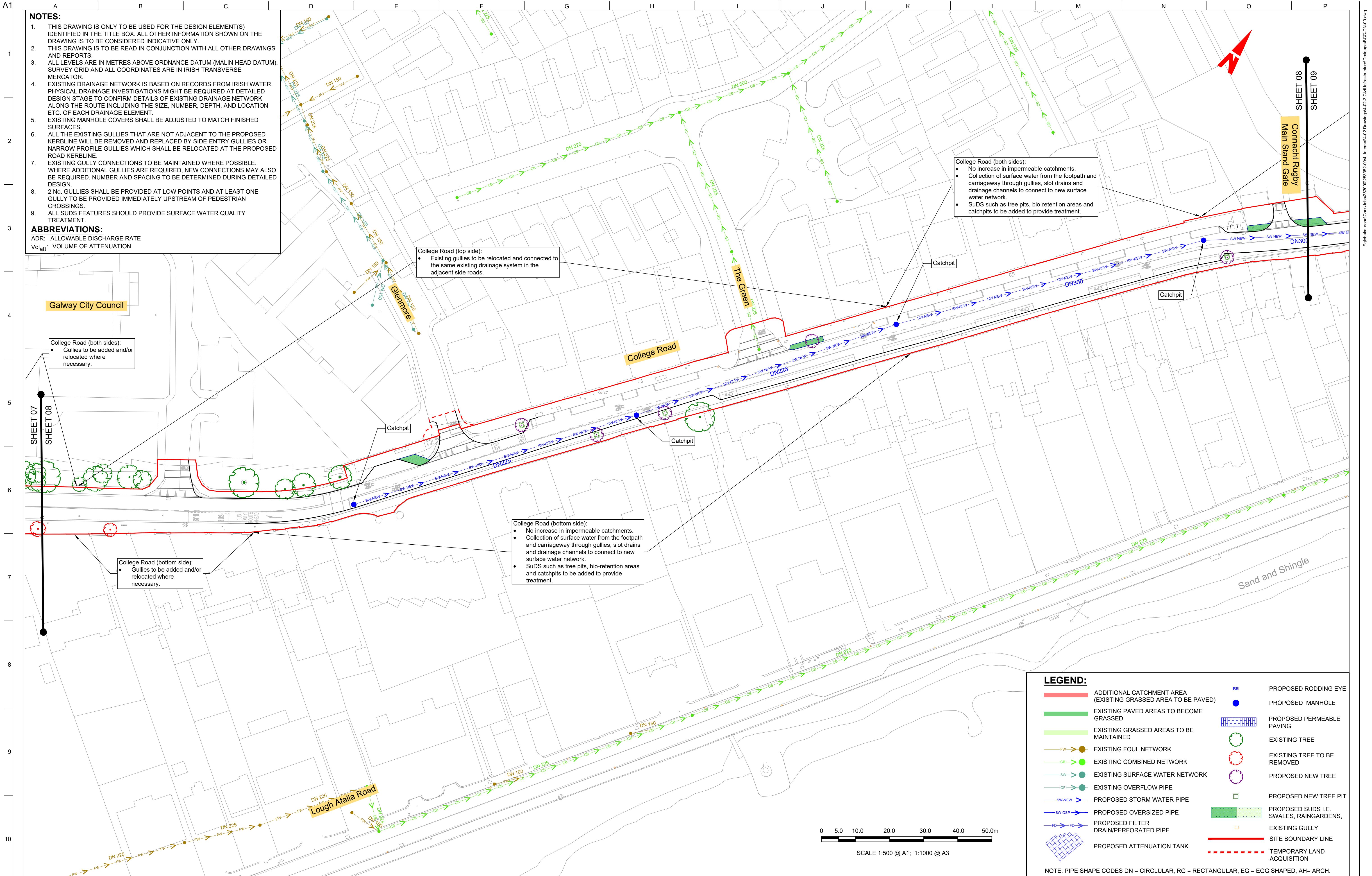
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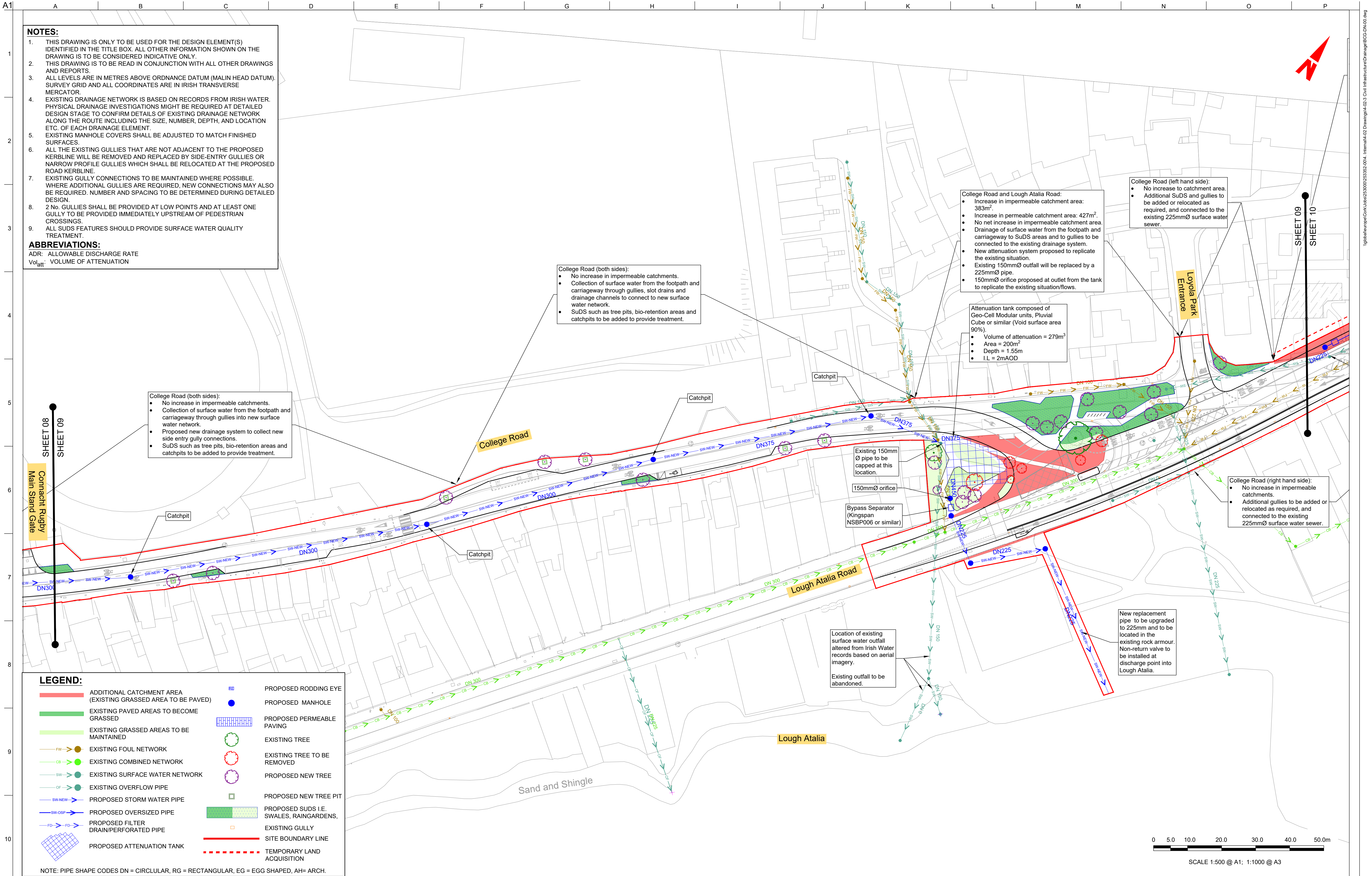
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Scale at A1 1:500 @ A1 ( 1:1000 @ A3)	Role Transport Infrastructure
Suitability Planning	Rev PL01
Arup Job No <b>253352-00</b>	Name <b>BCG-DN-00-07</b>

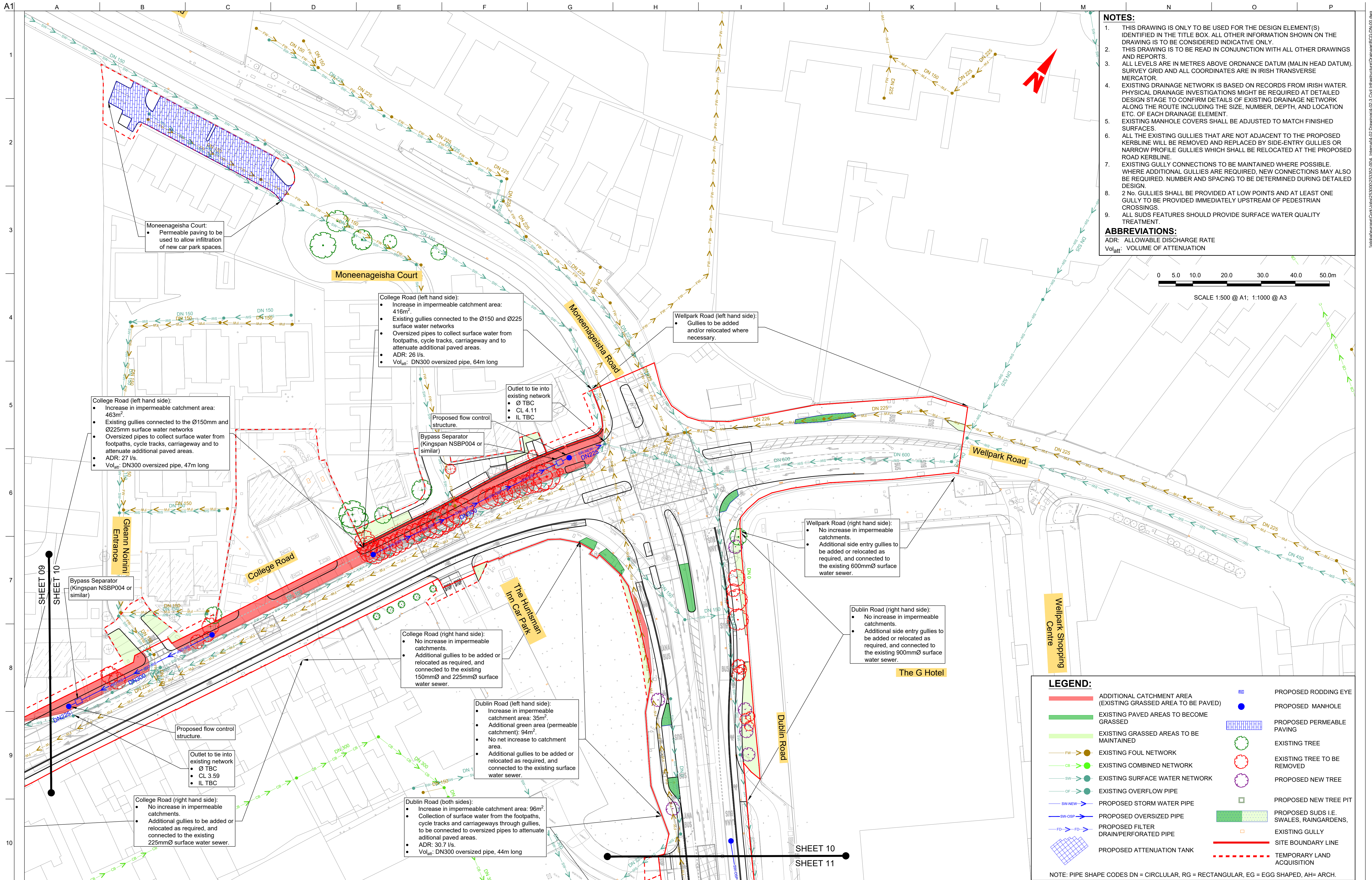








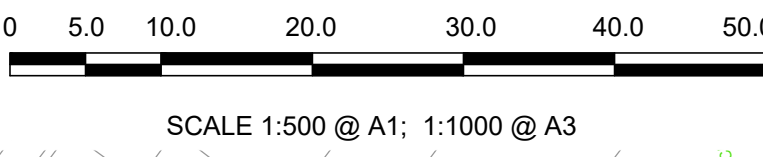




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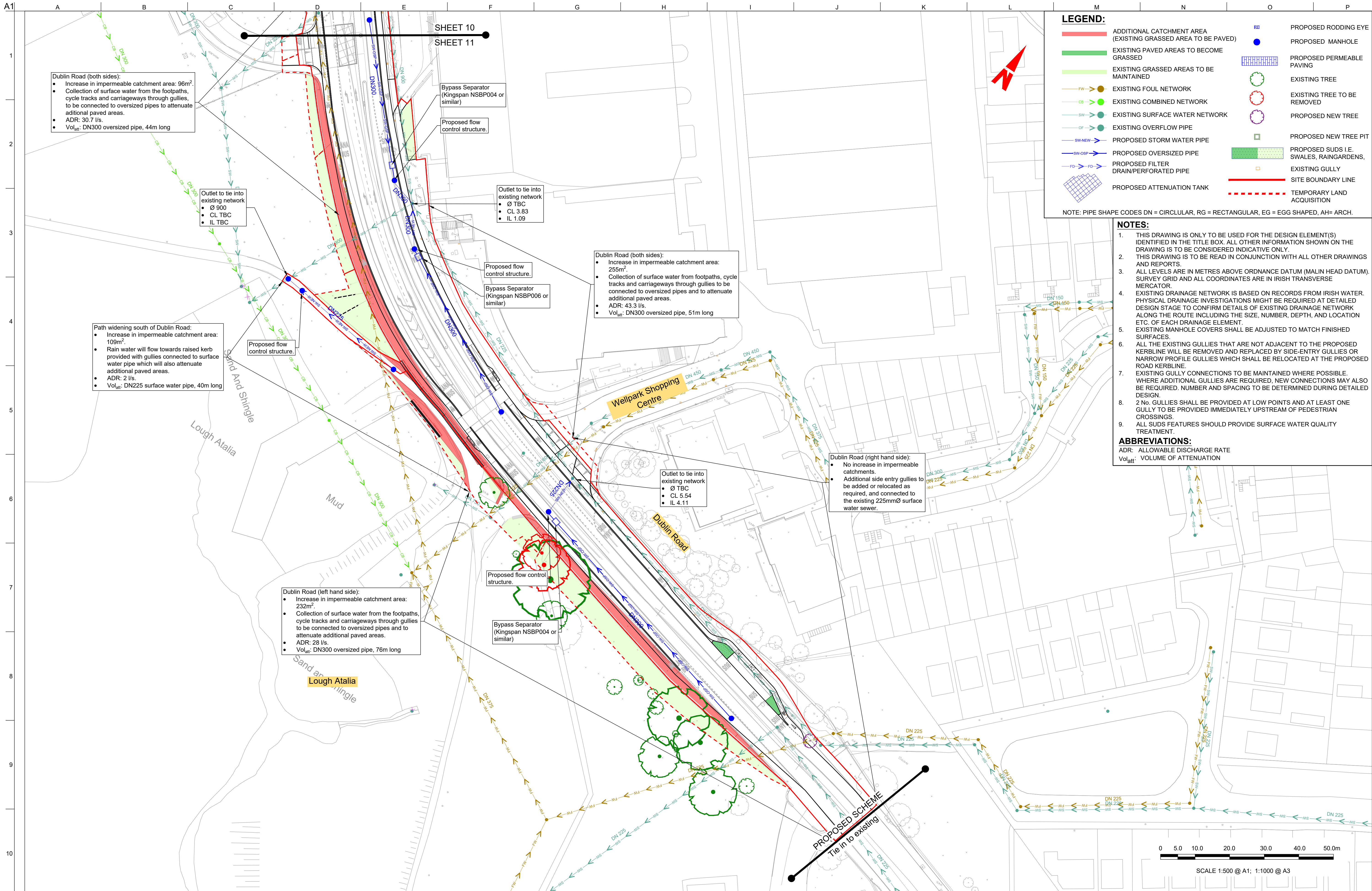


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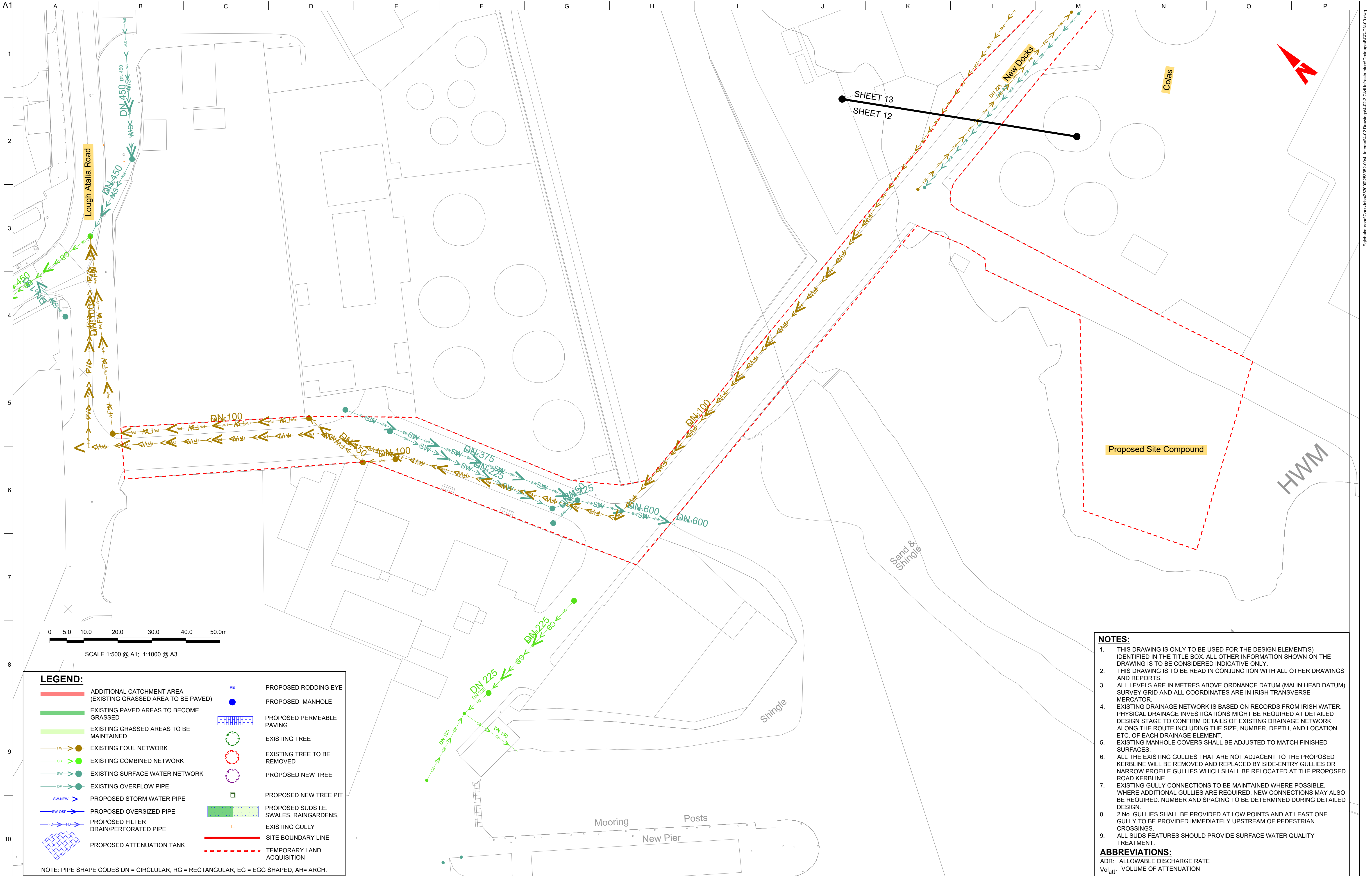
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Scale at A1  
1:500 @ A1 ( 1:1000 @ A3)

Role	Transport Infrastructure
Suitability	Planning
Arup Job No	253352-00
Name	BCG-DN-00-11
Rev	PL01





LEGEND:

- ADDITIONAL CATCHMENT AREA (EXISTING GRASSED AREA TO BE PAVED)
- EXISTING PAVED AREAS TO BECOME GRASSED
- EXISTING GRASSED AREAS TO BE MAINTAINED
- EXISTING FOUL NETWORK
- EXISTING COMBINED NETWORK
- EXISTING SURFACE WATER NETWORK
- EXISTING OVERFLOW PIPE
- PROPOSED STORM WATER PIPE
- PROPOSED OVERSIZED PIPE
- PROPOSED FILTER DRAIN/PERFORATED PIPE
- PROPOSED ATTENUATION TANK
- PROPOSED RODDING EYE
- PROPOSED MANHOLE
- PROPOSED PERMEABLE PAVING
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- PROPOSED NEW TREE
- PROPOSED NEW TREE PIT
- PROPOSED SUDS I.E. SWALES, RAINGARDENS, EXISTING GULLY
- SITE BOUNDARY LINE
- TEMPORARY LAND ACQUISITION

NOTE: PIPE SHAPE CODES DN = CIRCLULAR, RG = RECTANGULAR, EG = EGG SHAPED, AH= ARCH.

NOTES:

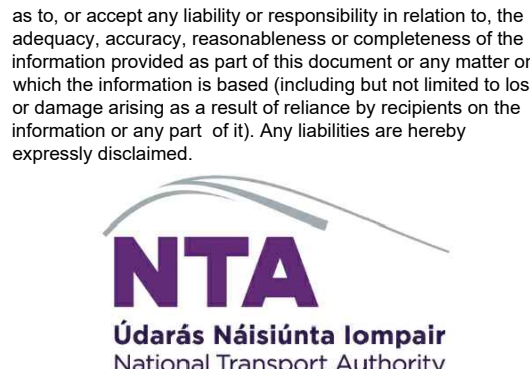
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- EXISTING DRAINAGE NETWORK IS BASED ON RECORDS FROM IRISH WATER. PHYSICAL DRAINAGE INVESTIGATIONS MIGHT BE REQUIRED AT DETAILED DESIGN STAGE TO CONFIRM DETAILS OF EXISTING DRAINAGE NETWORK ALONG THE ROUTE INCLUDING THE SIZE, NUMBER, DEPTH, AND LOCATION ETC. OF EACH DRAINAGE ELEMENT.
- EXISTING MANHOLE COVERS SHALL BE ADJUSTED TO MATCH FINISHED SURFACES.
- ALL THE EXISTING GULLIES THAT ARE NOT ADJACENT TO THE PROPOSED KERBLINE WILL BE REMOVED AND REPLACED BY SIDE-ENTRY GULLIES OR NARROW PROFILE GULLIES WHICH SHALL BE RELOCATED AT THE PROPOSED ROAD KERBLINE.
- EXISTING GULLY CONNECTIONS TO BE MAINTAINED WHERE POSSIBLE. WHERE ADDITIONAL GULLIES ARE REQUIRED, NEW CONNECTIONS MAY ALSO BE REQUIRED. NUMBER AND SPACING TO BE DETERMINED DURING DETAILED DESIGN.
- 2 No. GULLIES SHALL BE PROVIDED AT LOW POINTS AND AT LEAST ONE GULLY TO BE PROVIDED IMMEDIATELY UPSTREAM OF PEDESTRIAN CROSSINGS.
- ALL SUDS FEATURES SHOULD PROVIDE SURFACE WATER QUALITY TREATMENT.

ABBREVIATIONS:

ADR: ALLOWABLE DISCHARGE RATE  
Vol<sub>att</sub>: VOLUME OF ATTENUATION

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PL01	31/08/22	DS	MR	DMcD
Issue for Planning				
Rev	Date	By	Chkd	Appd

ARUP

Arup, One Albert Quay,  
Cork, T12 X8N6, Ireland  
Tel +353 (0)21 422 3200 Fax +353 (0)1 668 3169  
www.arup.ie

Client  
Galway City Council



Project Title  
BusConnects Galway:  
Cross-City Link  
(University Road to Dublin Road)

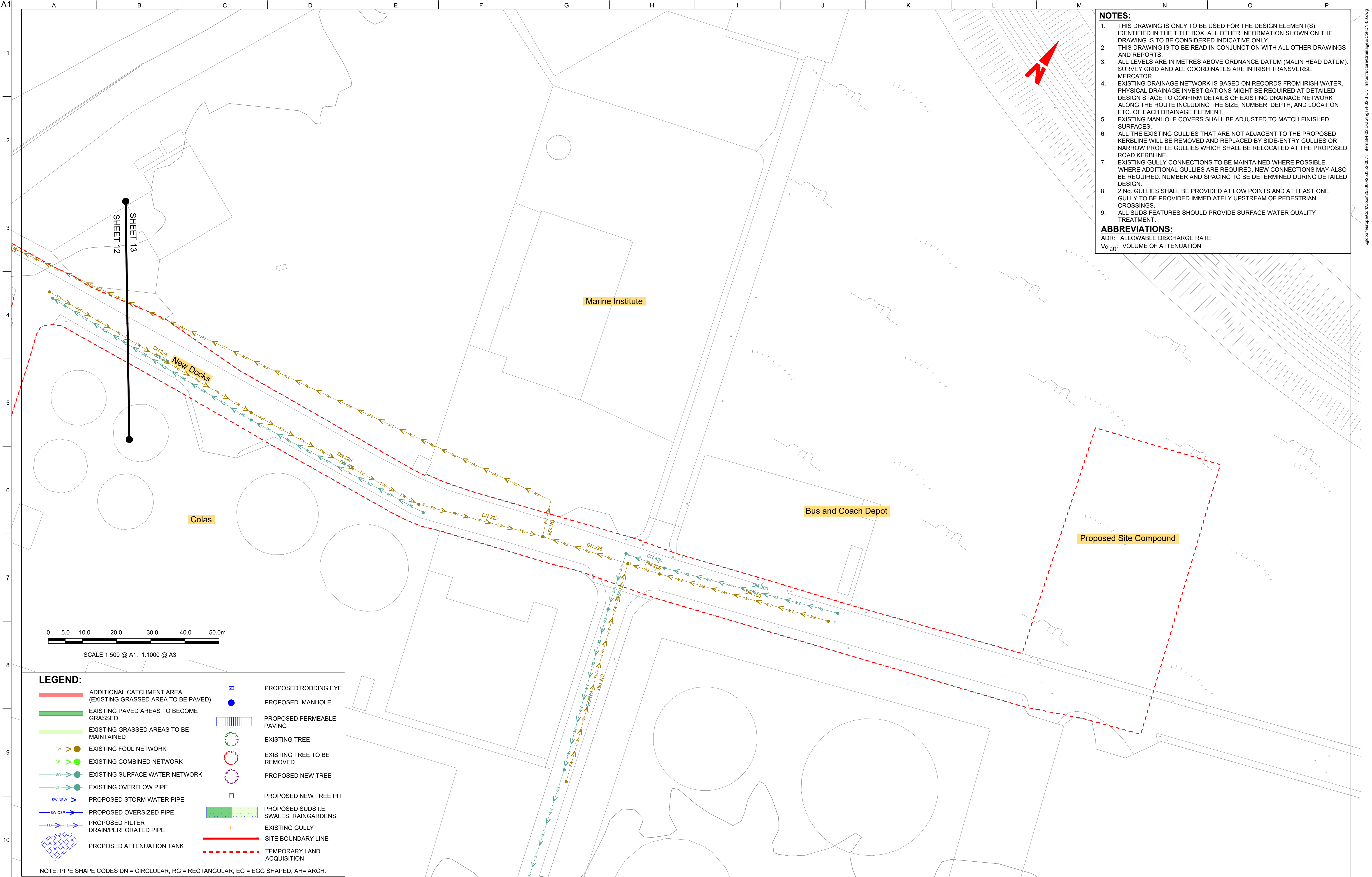


Drawing Title  
Proposed Surface Water  
Drainage Works  
Sheet 12 of 13

Scale at A1 1:500 @ A1 ( 1:1000 @ A3)

Role	Transport Infrastructure
Suitability	Planning
Arup Job No	253352-00
Name	BCG-DN-00-12
Rev	PL01





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**ABBREVIATIONS:**  
ADR: ALLOWABLE DISCHARGE RATE  
Volatt: VOLUME OF ATTENUATION

**LEGEND:**

ADDITIONAL CATCHMENT AREA  
(EXISTING GRASSED AREA TO BE PAVED)

EXISTING PAVED AREAS TO BECOME GRASSED

EXISTING GRASSED AREAS TO BE MAINTAINED

EXISTING FOUL NETWORK

EXISTING COMBINED NETWORK

EXISTING SURFACE WATER NETWORK

EXISTING OVERFLOW PIPE

PROPOSED STORM WATER PIPE

PROPOSED OVERSIZED PIPE

PROPOSED FILTER DRAIN/PERFORATED PIPE

PROPOSED ATTENUATION TANK

PROPOSED RODDING EYE

PROPOSED MANHOLE

PROPOSED PERMEABLE PAVING

EXISTING TREE

EXISTING TREE TO BE REMOVED

PROPOSED NEW TREE

PROPOSED NEW TREE PIT

PROPOSED SUDS I.E. SWALES, RAINGARDENS,

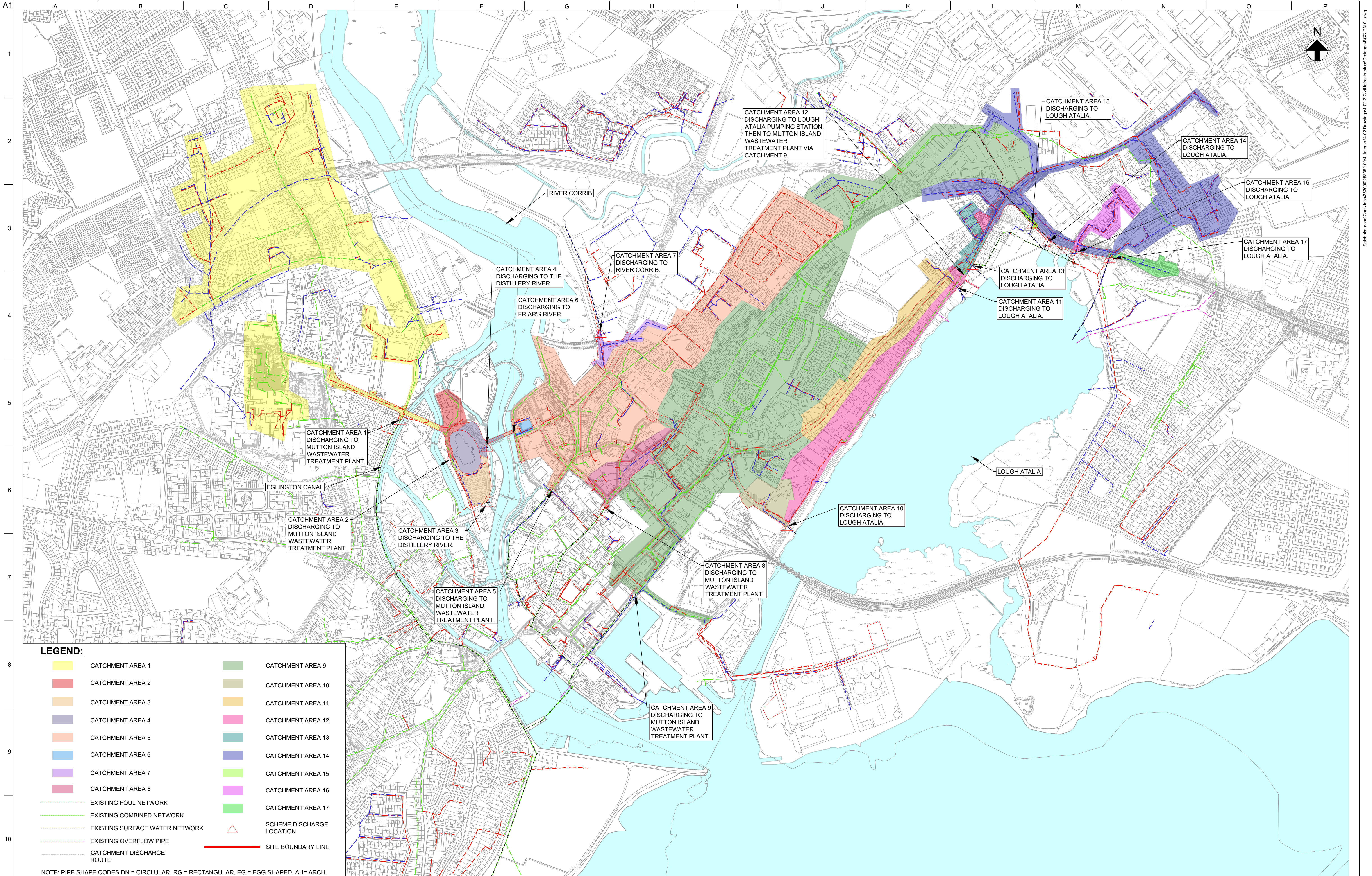
EXISTING GULLY

SITE BOUNDARY LINE

TEMPORARY LAND ACQUISITION

NOTE: PIPE SHAPE CODES DN = CIRCLULAR, RG = RECTANGULAR, EG = EGG SHAPED, AH= ARCH.





**LEGEND:**

CATCHMENT AREA 1	CATCHMENT AREA 9
CATCHMENT AREA 2	CATCHMENT AREA 10
CATCHMENT AREA 3	CATCHMENT AREA 11
CATCHMENT AREA 4	CATCHMENT AREA 12
CATCHMENT AREA 5	CATCHMENT AREA 13
CATCHMENT AREA 6	CATCHMENT AREA 14
CATCHMENT AREA 7	CATCHMENT AREA 15
CATCHMENT AREA 8	CATCHMENT AREA 16
EXISTING FOUL NETWORK	CATCHMENT AREA 17
EXISTING COMBINED NETWORK	SCHEME DISCHARGE LOCATION
EXISTING SURFACE WATER NETWORK	SITE BOUNDARY LINE
EXISTING OVERFLOW PIPE	
CATCHMENT DISCHARGE ROUTE	

NOTE: PIPE SHAPE CODES DN = CIRCLULAR, RG = RECTANGULAR, EG = EGG SHAPED, AH= ARCH.

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**ARUP**

Arup, One Albert Quay,  
Cork, T12 X8N6, Ireland  
Tel +353 (0)21 422 3200 Fax +353 (0)1 668 3169  
www.arup.ie

Client  
**Galway City Council**

Project Title  
**BusConnects Galway:  
Cross-City Link  
(University Road to Dublin Road)  
Non-Statutory Public Consultation**

Drawing Title  
**Catchment Area Assessment  
Sheet 01 of 01**

Scale at A1	1:5000 @ A1 (1:10000 @ A3)
Role	Transport Infrastructure
Suitability	Planning
Arup Job No	253352-00
Name	BCG-DN-01-01
Rev	PL01