

Appendix I – Scheme Drawings

Graiguenamanagh Tinnahinch Flood Relief Scheme

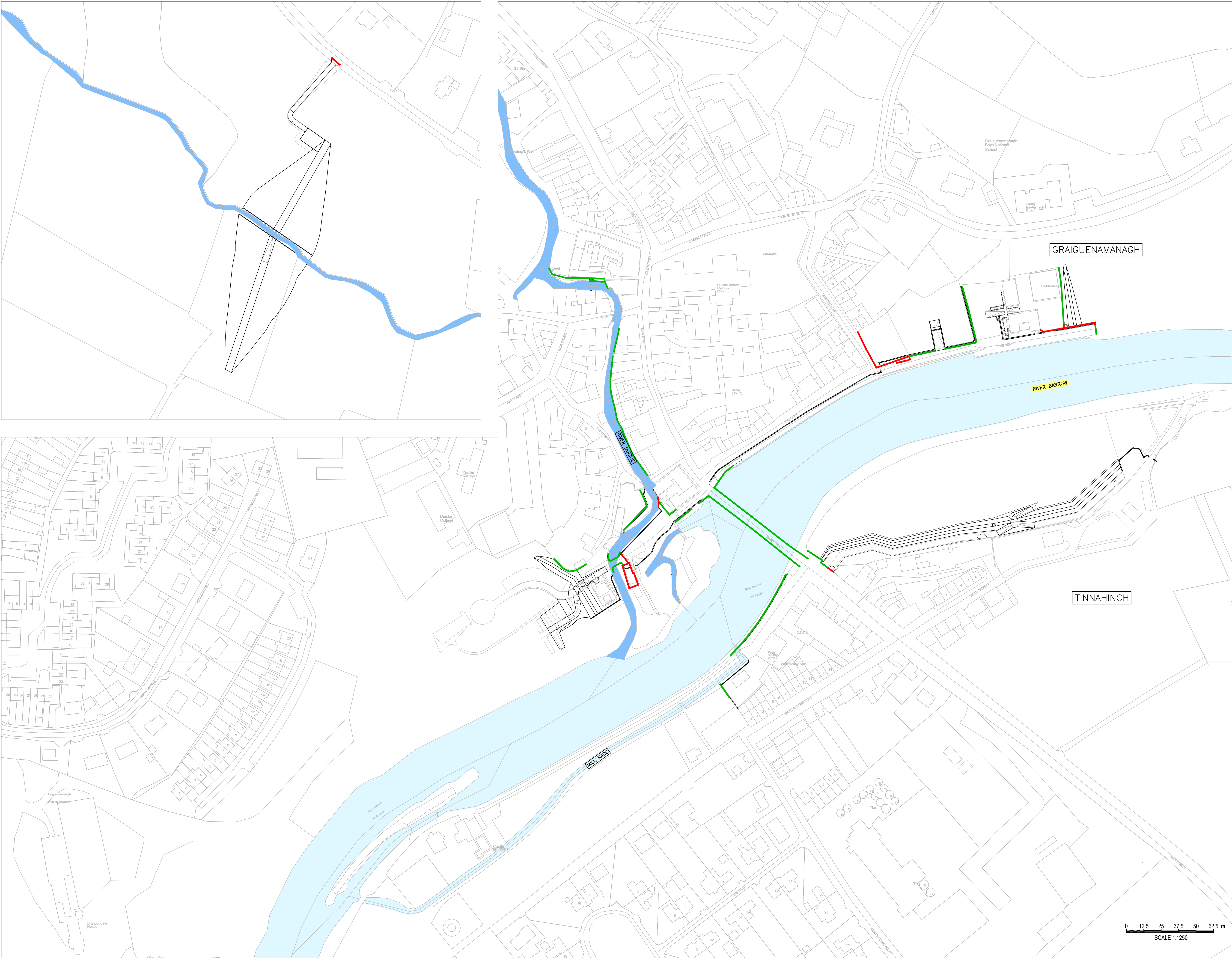
PLANNING DRAWINGS MARCH 2025

Graiguenamanagh Tinnahinch Flood Relief Scheme

For Planning

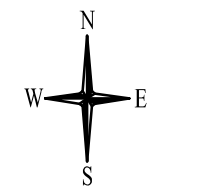
March 2025

Drawing Number	Drawing Title	Sheet	Revision
	Cover Sheet	A1	02
W3451-AYE-DWG-W-1400	Drawing List	A1	02
W3451-AYE-DWG-W-1401	Flood Relief Works - Site Location Map	A1	00
W3451-AYE-DWG-W-1402	Flood Relief Works - Site Extents & Notices	A1	02
W3451-AYE-DWG-W-1403	Flood Relief Works - Site Location Plan	A1	02
W3451-AYE-DWG-W-1404	Flood Relief Works - Tinnahinch Hotel Street - Site Plan & Longitudinal Sections	A1	02
W3451-AYE-DWG-W-1405	Flood Relief Works - Tinnahinch Hotel Street - Sections - Sheet 1	A1	02
W3451-AYE-DWG-W-1406	Flood Relief Works - Tinnahinch Hotel Street - Sections - Sheet 2	A1	01
W3451-AYE-DWG-W-1407	Flood Relief Works - Tinnahinch Quay - Site Plan & Longitudinal Sections	A1	00
W3451-AYE-DWG-W-1408	Flood Relief Works - Tinnahinch Quay - Sections	A1	00
W3451-AYE-DWG-W-1409	Drawing no longer in use	-	-
W3451-AYE-DWG-W-1410	Flood Relief Works - Graiguenamanagh Quay - Site Plan & Longitudinal Sections	A1	01
W3451-AYE-DWG-W-1411	Flood Relief Works - Graiguenamanagh Quay - Sections - Sheet 1	A1	00
W3451-AYE-DWG-W-1412	Flood Relief Works - Graiguenamanagh Quay - Sections - Sheet 2	A1	00
W3451-AYE-DWG-W-1413	Flood Relief Works - Graiguenamanagh Quay - Sections - Sheet 3	A1	00
W3451-AYE-DWG-W-1414	Flood Relief Works - Docks & Hub - Site Plan & Longitudinal Sections	A1	00
W3451-AYE-DWG-W-1415	Flood Relief Works - Docks & Hub - Sections - Sheet 1	A1	00
W3451-AYE-DWG-W-1416	Flood Relief Works - Docks & Hub - Sections - Sheet 2	A1	00
W3451-AYE-DWG-W-1417	Flood Relief Works - Lower Turf Market - Site Plan & Longitudinal Sections	A1	00
W3451-AYE-DWG-W-1418	Flood Relief Works - Lower Turf Market - Sections	A1	00
W3451-AYE-DWG-W-1419	Flood Relief Works - High St. Lower - Site Plan & Longitudinal Sections	A1	01
W3451-AYE-DWG-W-1420	Flood Relief Works - High St. Lower - Sections	A1	01
W3451-AYE-DWG-W-1421	Flood Relief Works - Upstream Storage Area - Duiske River - GA Site Plan & Sections	A1	01
W3451-AYE-DWG-W-1422	Flood Relief Works - Upstream Storage Area - Duiske River - Access Road Plan & Details	A1	01
W3451-AYE-DWG-W-1423	Flood Relief Works - Upstream Storage Area - Duiske River - Flood Extents	A1	01
W3451-AYE-DWG-W-1424	Flood Relief Works - Treatment of Existing Walls	A1	02
W3451-AYE-DWG-W-1425	Flood Relief Works - Flood Defences Overall Asset Numbers	A1	02
W3451-AYE-DWG-W-1426	Site Works - Arboreal Impact GA Layout	A1	02
W3451-AYE-DWG-W-1427	Site Works - ESB Diversions Layout	A1	02
W3451-AYE-DWG-W-1428	Site Works - Public Lighting Diversions Layout	A1	02
W3451-AYE-DWG-W-1429	Site Works - Eir Diversions Layout	A1	02
W3451-AYE-DWG-W-1430	Stormwater Drainage - Overall Layout Plan	A1	02
W3451-AYE-DWG-W-1431	Stormwater Drainage - Tinnahinch Hotel Street & Quay - GA Layout	A1	02
W3451-AYE-DWG-W-1432	Stormwater Drainage - Graiguenamanagh Quay - GA Layout	A1	01
W3451-AYE-DWG-W-1433	Stormwater Drainage - Docks & Hub - GA Layout	A1	01
W3451-AYE-DWG-W-1434	Stormwater Drainage - Pumping Station No.1 - GA Layout, Plan & Sections	A1	00
W3451-AYE-DWG-W-1435	Stormwater Drainage - Pumping Station No.2 - GA Layout, Plan & Sections	A1	01
W3451-AYE-DWG-W-1436	Stormwater Drainage - Pumping Stations No.3-5 - GA Layout, Plan & Sections	A1	01
W3451-AYE-DWG-W-1437	Outfall Works - Overall Layout Plan	A1	00
W3451-AYE-DWG-W-1438	Outfall Works - River Barrow Outfalls - Sheet 1	A1	00
W3451-AYE-DWG-W-1439	Outfall Works - River Barrow Outfalls - Sheet 2	A1	00
W3451-AYE-DWG-W-1440	Outfall Works - River Duiske Outfalls	A1	00
W3451-AYE-DWG-W-1441	Conservation Strategy - Overall Layout Plan	A1	02
W3451-AYE-DWG-W-1442	Conservation Strategy - Wall Details	A1	02
W3451-AYE-DWG-W-1443	Site Works - UE Water Diversions Layout	A1	02
W3451-AYE-DWG-W-1444	Site Works - Autotracking Layout	A1	00
W3451-AYE-DWG-W-1445	Site Works - Biodiversity Enhancement Measures	A1	00



SITE PLAN
SCALE: 1:2000

GENERAL NOTES



NOTES:

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4. TAKEN FROM OS MAPS No. 5016-A, 5016-B, 5016-C & 5016-D.
5. FOR DETAILS OF FLOOD DEFENCES SEE DWGS 1404-1423

LEGEND:

- EXISTING WALLS TO BE RETAINED —
- EXISTING WALLS TO BE REMOVED —

02	04.03.25	ISSUE FOR PLANNING (EMBANKMENT REVISION)	LT	SH	SH
01	21.10.24	ISSUE FOR PLANNING	LT	SH	SH
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Rev	Date	Description	By	Chk	App



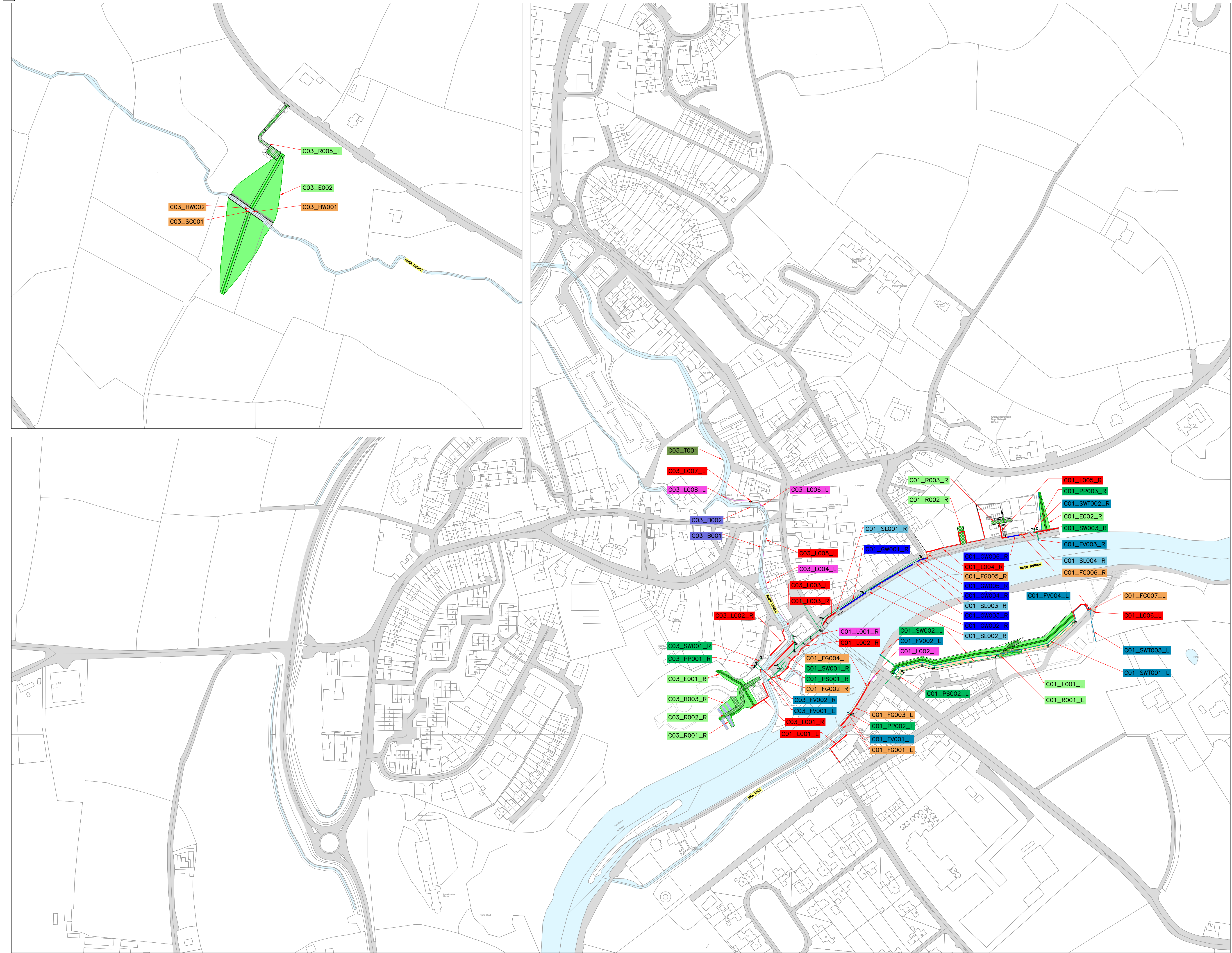
CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING
TITLE
FLOOD RELIEF WORKS
TREATMENT OF EXISTING WALLS

STATUS
FOR PLANNING

Date: 31.07.24	Scale: 1:1250	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Drg. No: W3451-AYE-DWG-W-1424	Rev: 02		



GENERAL NOTES



NOTES:

1. ORDNANCE SURVEY IRELAND LICENCE NUMBER EN 3-3-34.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
3. LONG SECTIONS ARE DEVELOPED SECTIONS FROM THE DIRECTION SHOWN.
4. DESIGN FLOOD LEVEL SHOWN FOR INFO ONLY, AND APPLIES TO WET SIDE ONLY.
5. FREEBOARD:
HARD DEFENCES: 350mm
SOFT DEFENCES: 550mm
6. HEIGHT REFERRED TO ARE FROM CENTRELIN OF CREST OF EMBANKMENT/WALL.

LEGEND:

UPGRADE EXISTING WALL		L
NEW FLOOD DEFENCE WALL		L
GLASS WALL FLOOD DEFENCE		GW
NEW FLOOD/SLUICE GATE, HEADWALL		FG, SG, HW
NEW FLOOD DEFENCE RAMP, EMBANKMENT & RAISED GROUND		E
NEW SLIDING FLOOD GATES		SL
PROPOSED FOOTBRIDGE		B
PROPOSED TRASH SCREEN		T
PROPOSED STORM DRAINAGE		SW
PROPOSED MANHOLES		MH
PROPOSED FILTER/TOE DRAIN		SWT
PROPOSED OUTFALLS		FV
PROPOSED PUMP STATION		PS
PROPOSED PUMP SUMP		PP
PROPOSED VEHICLE ACCESS FOR FLOOD DEFENCES		R
EXISTING VEHICLE PARKING TO BE RETAINED		R

EXISTING CHANNELS:

RIVER BARROW		C01
MILL RACE		C02
RIVER DUISCE		C03

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Rev	Date	Description	By	Chk	App



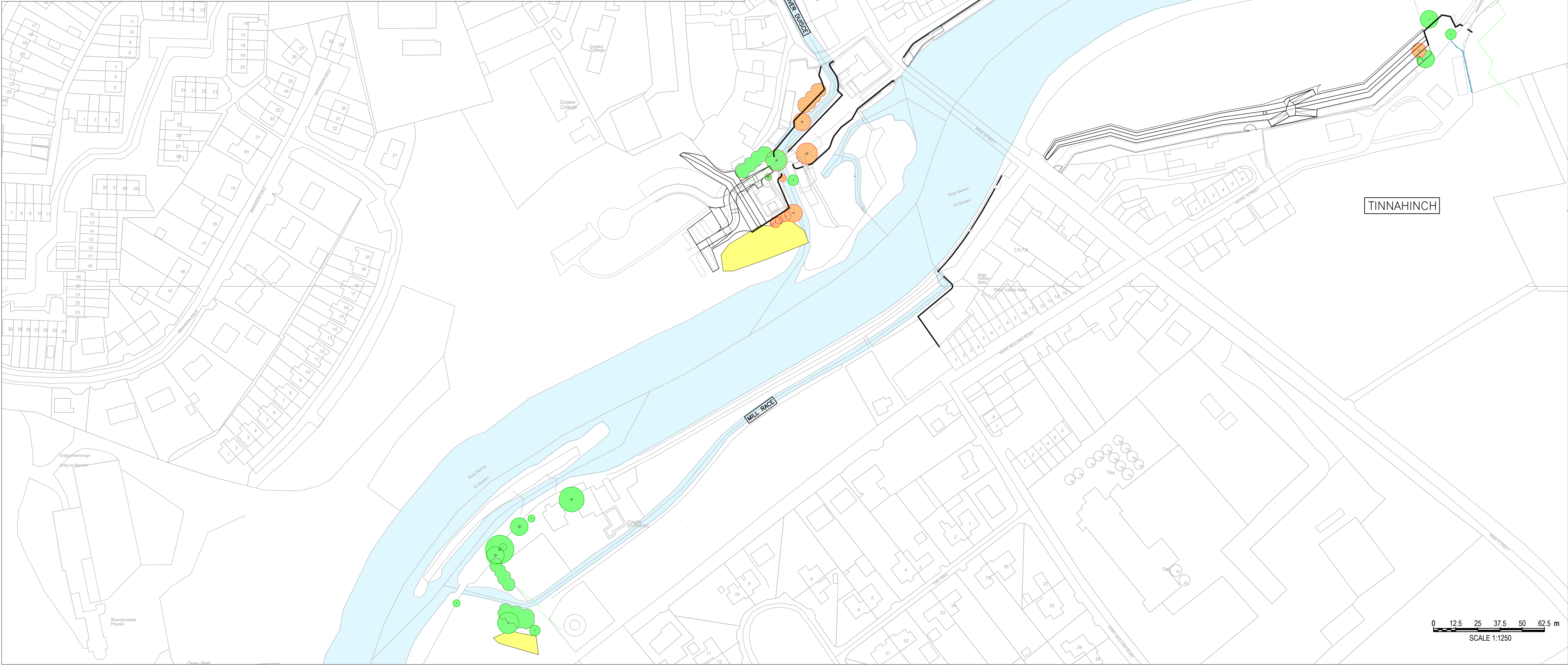
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PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING
TITLE
FLOOD RELIEF WORKS
FLOOD DEFENCES OVERALL LAYOUT

STATUS	FOR PLANNING
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SITE PLAN
SCALE: 1:2000

GENERAL NOTES



NOTES:

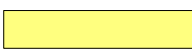
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4. TAKEN FROM OS MAPS No. 5016-A, 5016-B, 5016-C & 5016-D.
5. FOR DETAILS OF FLOOD DEFENCES SEE DWGS 1404-1423.
6. VEGETATION/SCRUB CLEARANCE NOT SHOWN.

LEGEND:

EX. TREES TO BE RETAINED



EX. TREE GROUPING TO BE RETAINED



EX. TREES TO BE REMOVED



EX. ROW OF VEGETATION/TREES TO BE REMOVED



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00	31.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App

ayesa

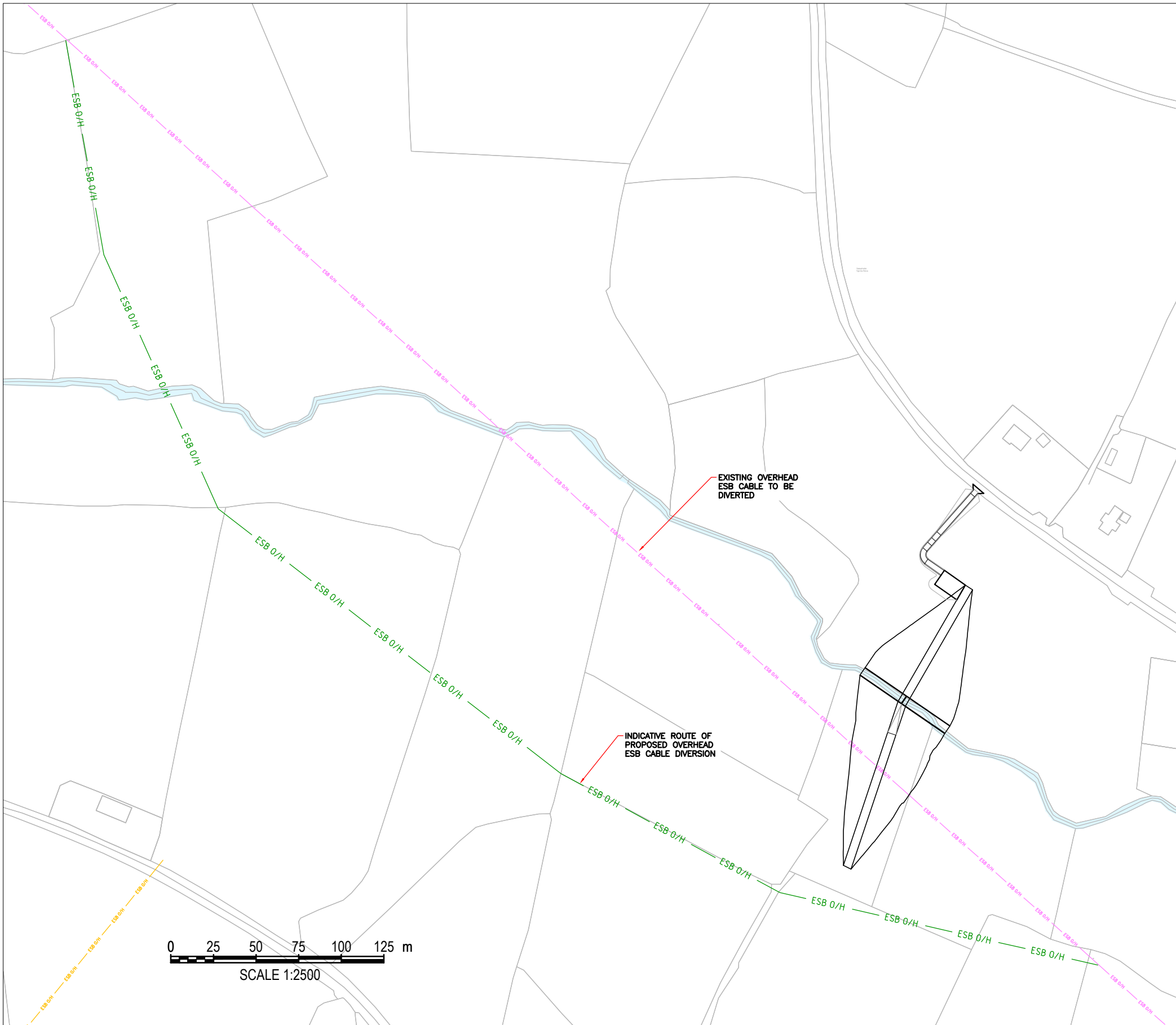
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PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

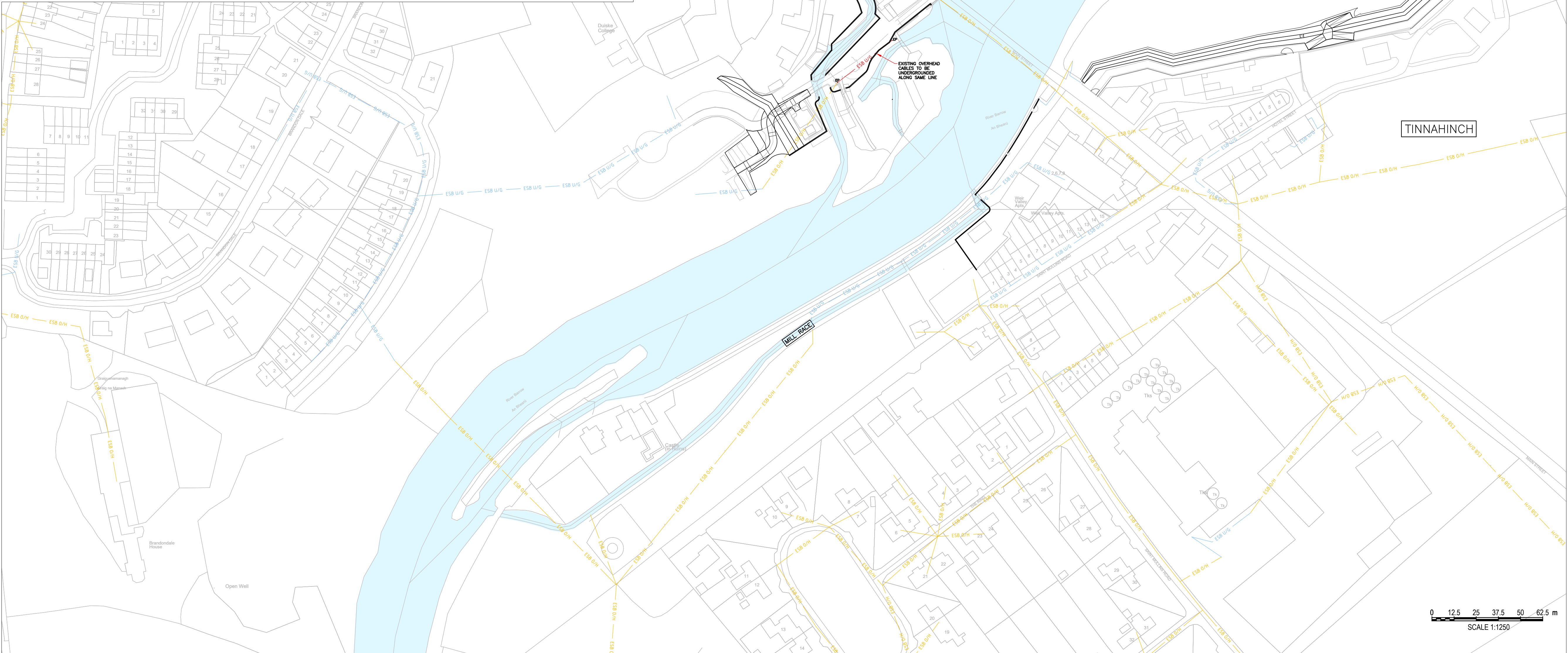
DRAWING
TITLE
SITE WORKS
ARBOREAL IMPACT GA LAYOUT

STATUS
FOR PLANNING

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Project No:	Drg. No:	Rev:		
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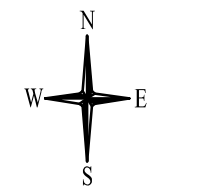


UPSTREAM STORAGE AREA
SCALE: 1:2500



SITE PLAN
SCALE: 1:1250

GENERAL NOTES



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4. TAKEN FROM OS MAPS No. 5016-A, 5016-B, 5016-C & 5016-D.
5. FOR DETAILS OF FLOOD DEFENCES SEE DWGS 1404-1423

LEGEND:

- EXISTING ESB OVERHEAD M/V
EXISTING ESB OVERHEAD H/V
EXISTING ESB UNDERGROUND
PROPOSED ESB OVERHEAD
PROPOSED ESB UNDERGROUND

- ESB O/H
ESB O/H
ESB U/G
ESB O/H
ESB U/G

02	04.03.25	ISSUE FOR PLANNING (EMBANKMENT REVISION)	LT	SH	SH
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Rev	Date	Description	By	Chk	App



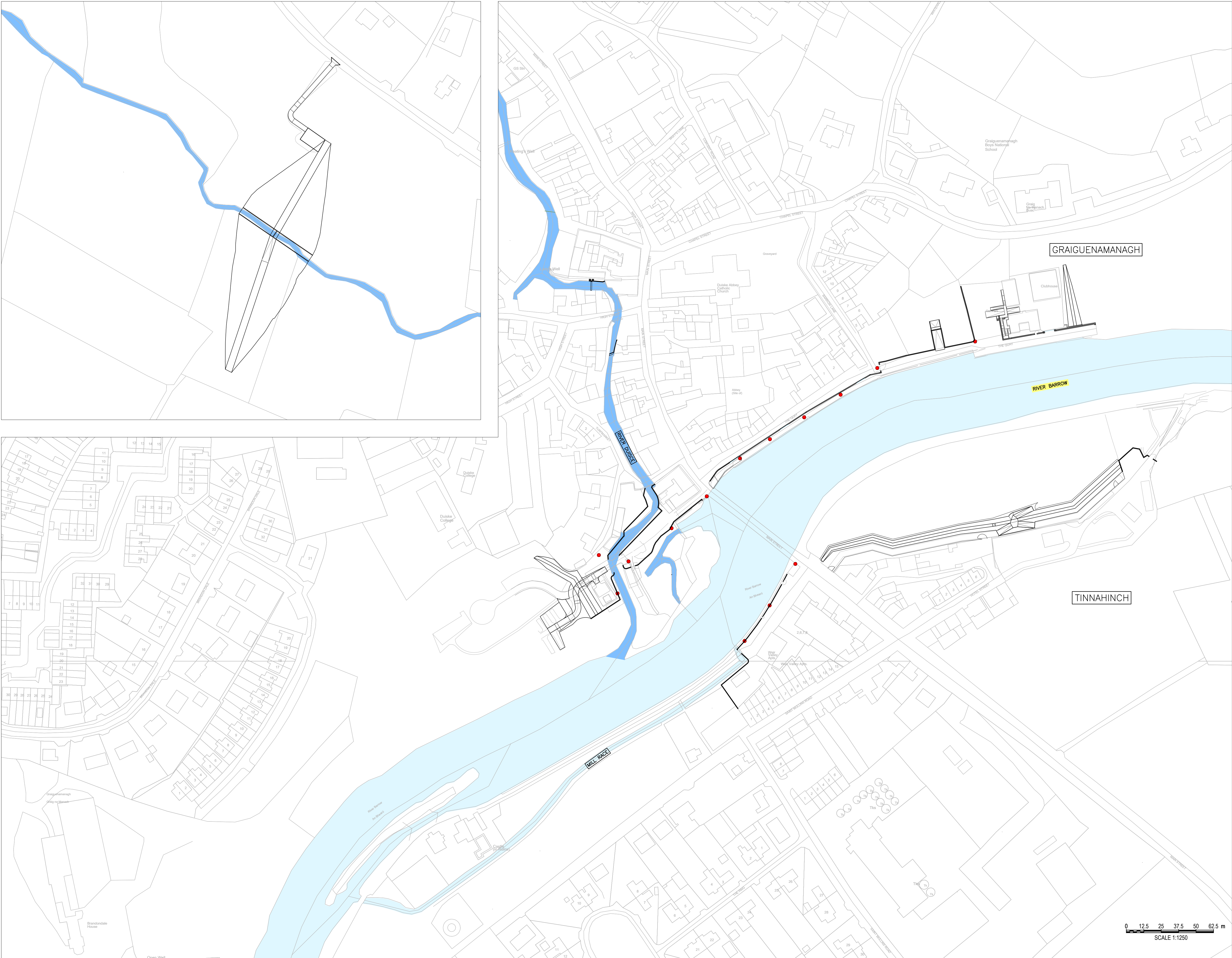
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PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING
TITLE
SITE WORKS
ESB DIVERSIONS LAYOUT

STATUS
FOR PLANNING

Date:31.07.24	Scale: AS SHOWN	Drawn:LT	Chk: SH	App:SH
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W3451	W3451-AYE-DWG-W-1427		02	



SITE PLAN
SCALE: 1:2000

GENERAL NOTES



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4. TAKEN FROM OS MAPS No. 5016-A, 5016-B, 5016-C & 5016-D.
5. FOR DETAILS OF FLOOD DEFENCES SEE DWGS 1404-1423
6. ALL EXISTING LIGHTING POLES TO BE REMOVED & REINSTATED AS PER LANDSCAPING PROPOSAL. GENERAL LOCATIONS TO BE RETAINED.

LEGEND:

EXISTING PUBLIC LIGHTING



02	04.10.25	ISSUE FOR PLANNING (EMBANKMENT REVISION)	LT	SH	SH
01	21.10.24	ISSUE FOR PLANNING	LT	SH	SH
00	31.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App

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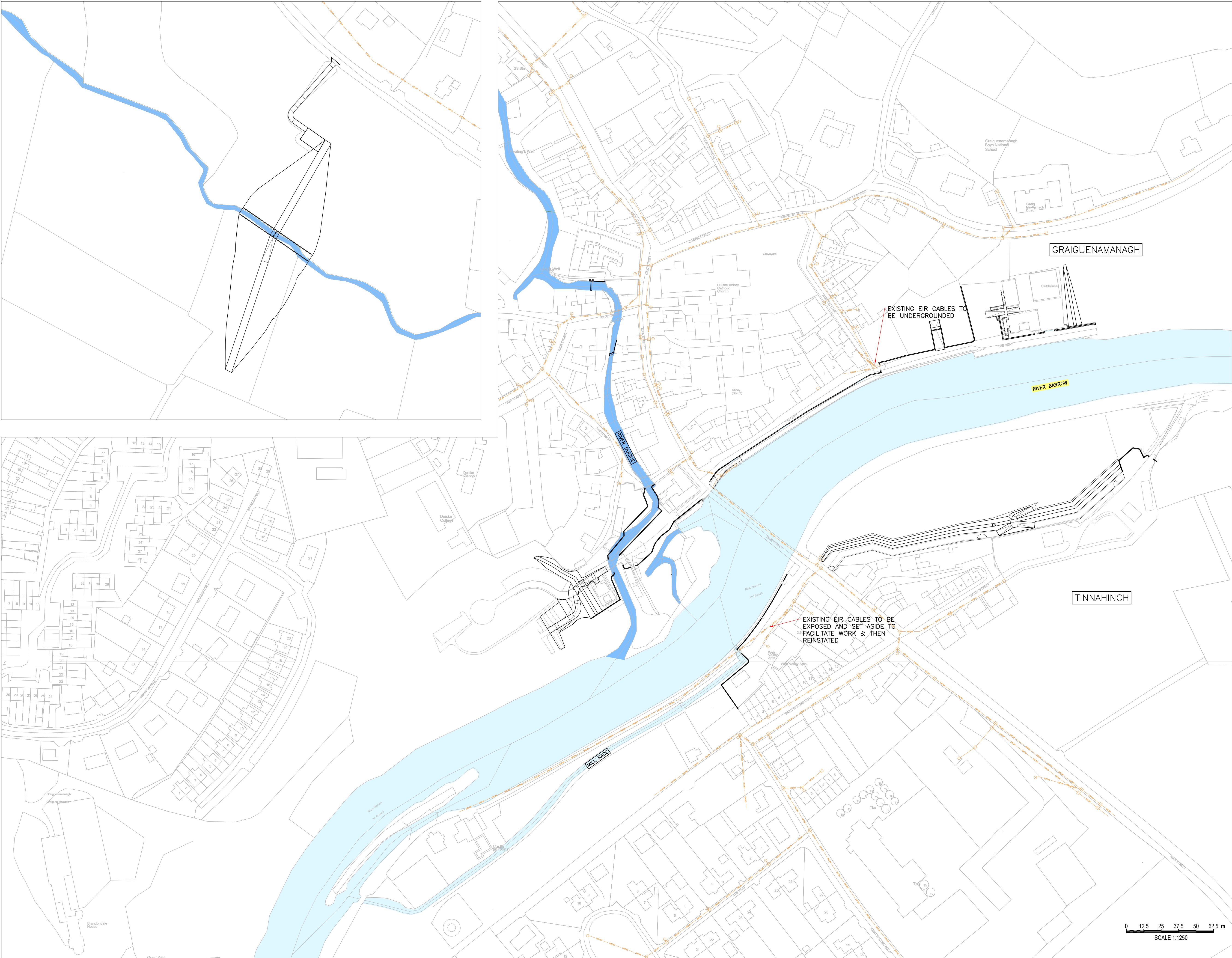
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PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING
TITLE
SITE WORKS
PUBLIC LIGHTING DIVERSIONS LAYOUT

STATUS
FOR PLANNING

Date:31.07.24	Scale:1:1250	Drawn:LT	Chk: SH	App:SH
Project No:	Drg. No:			Rev:
W3451	W3451-AYE-DWG-W-1428			02



GENERAL NOTES



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5. FOR DETAILS OF FLOOD DEFENCES SEE DWGS 1404-1423

LEGEND:

EXISTING EIR LINES



02	04.03.25	ISSUE FOR PLANNING (EMBANKMENT REVISION)	LT	SH	SH
01	21.10.24	ISSUE FOR PLANNING	LT	SH	SH
00	31.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App

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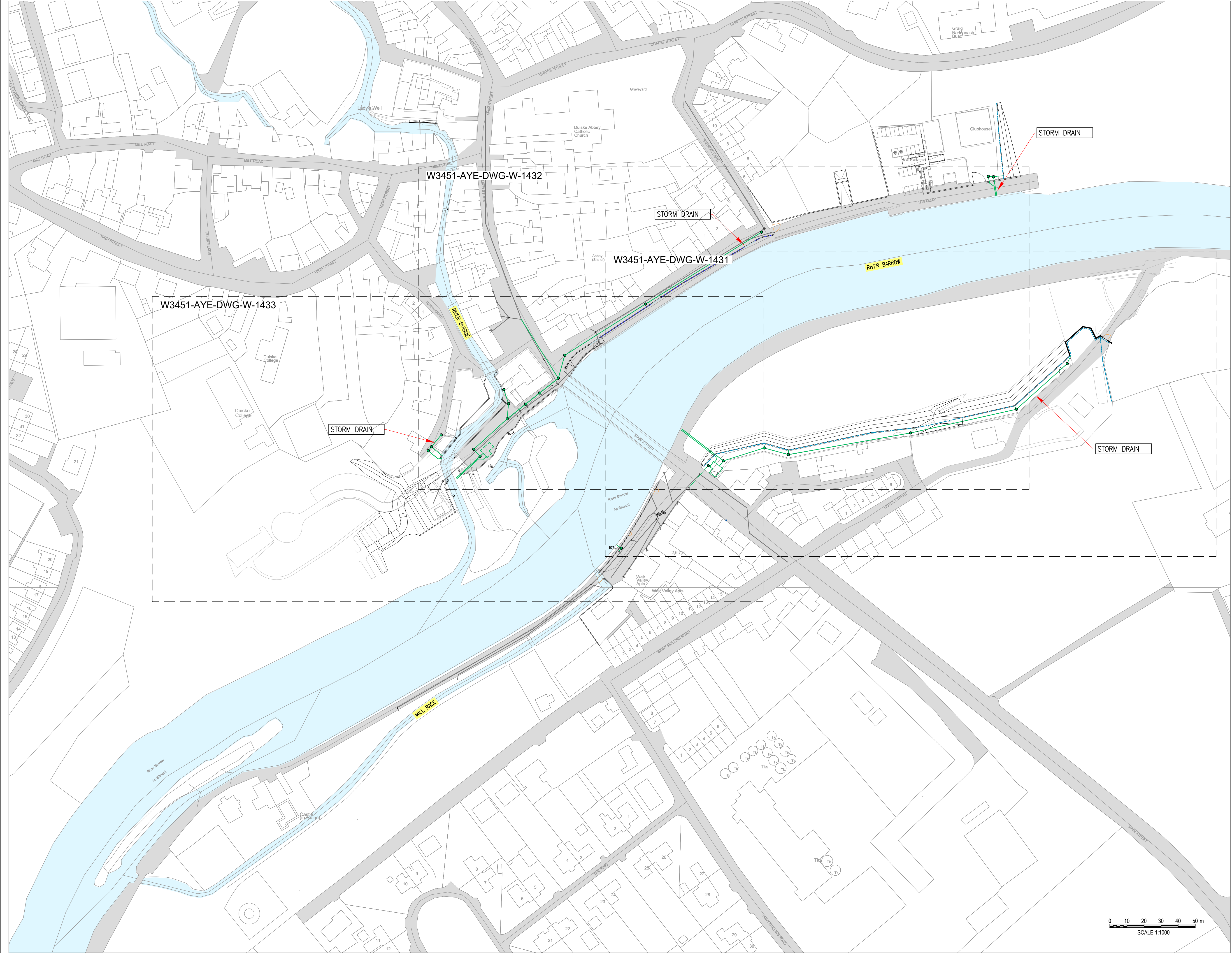
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PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING
TITLE
SITE WORKS
EIR DIVERSIONS LAYOUT

STATUS
FOR PLANNING

Date: 31.07.24	Scale: 1:1250	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Drg. No: W3451-AYE-DWG-W-1429	Rev: 02		



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- INVERT LEVELS SUBJECT TO FINAL DESIGN.

LEGEND:

EXISTING SEWER	—
EXISTING STORM DRAINAGE	- - -
PROPOSED STORM DRAINAGE	—
FILTER/TOE DRAIN	- - -

02	04.03.25	ISSUE FOR PLANNING	LT	SH	SH
01	18.11.24	ISSUE FOR PLANNING	LT	SH	SH
00	31.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App

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PROJECT

GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

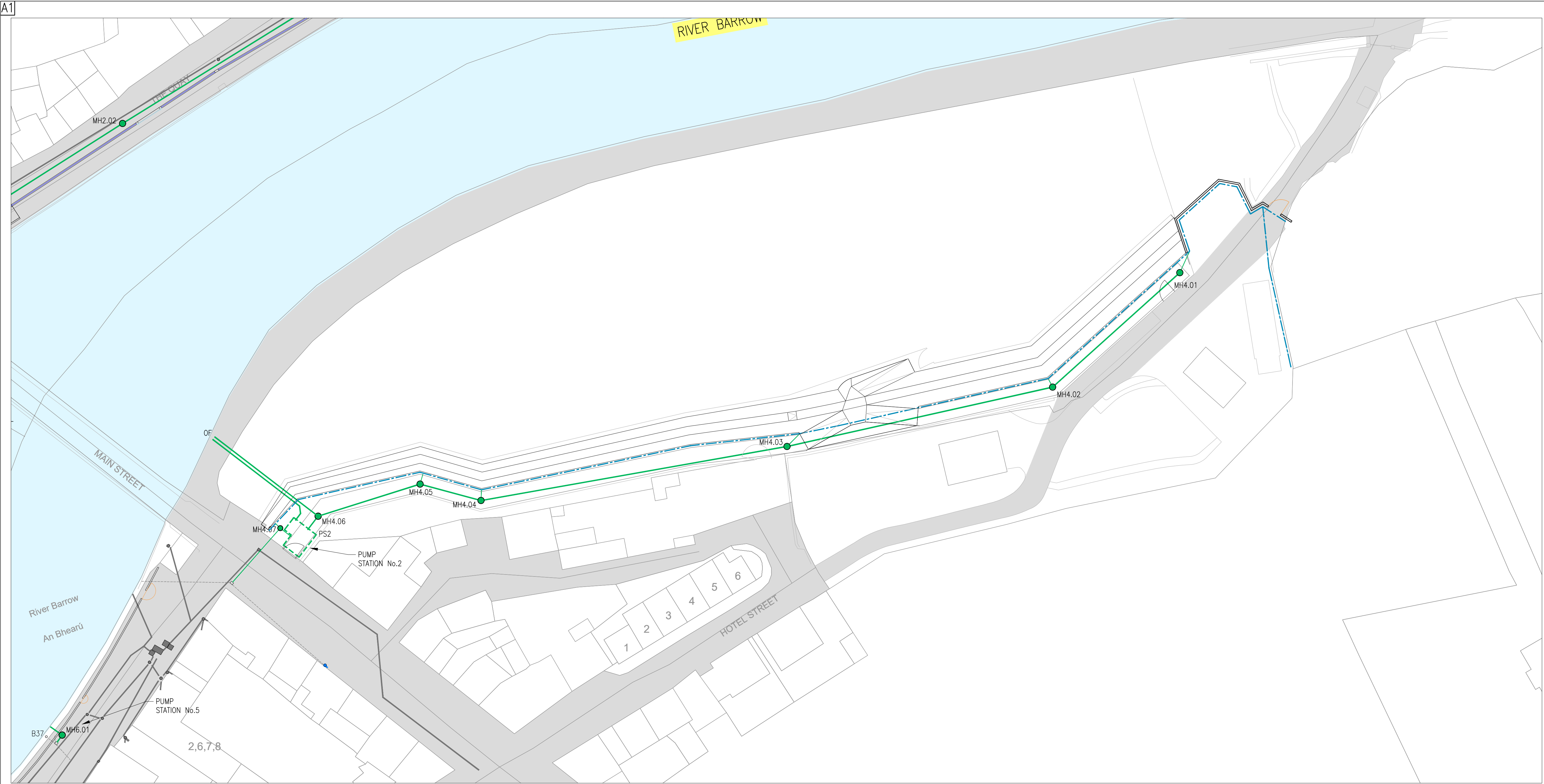
DRAWING TITLE

STORMWATER DRAINAGE
OVERALL LAYOUT PLAN

STATUS

FOR PLANNING

Date: 31.07.24	Scale: 1:1000	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Dwg. No: W3451-AYE-DWG-W-1430			Rev:



LAYOUT PLAN
SCALE: 1:500

STORMWATER MANHOLES – TINNAHINCH				
MANHOLE REF:	COVER LEVEL (mOD)	INVERT LEVEL (mOD)	PIPE ø (mm)	PIPE LENGTH (m)
MH4.01	11.35	9.800	–	–
MH4.02	11.70	9.670	525	40
MH4.03	11.70	9.458	525	63.65
MH4.04	11.80	9.216	525	72.65
MH4.05	11.90	9.166	525	14.75
MH4.06	12.69	9.081	525	25
OF	–	8.979	525	30.5
MH4.06	12.69	9.606	525	–
PS2	12.90	9.592	525	4
MH4.07	12.90	11.144/9.644	300	–
PS2	12.90	9.633	300	3.3
Ex.	10.77	10.54	–	–
MH6.01	10.76	TBC	100	2
OF	–	–	80	3.2

GENERAL NOTES



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4. INVERT LEVELS SUBJECT TO FINAL DESIGN.

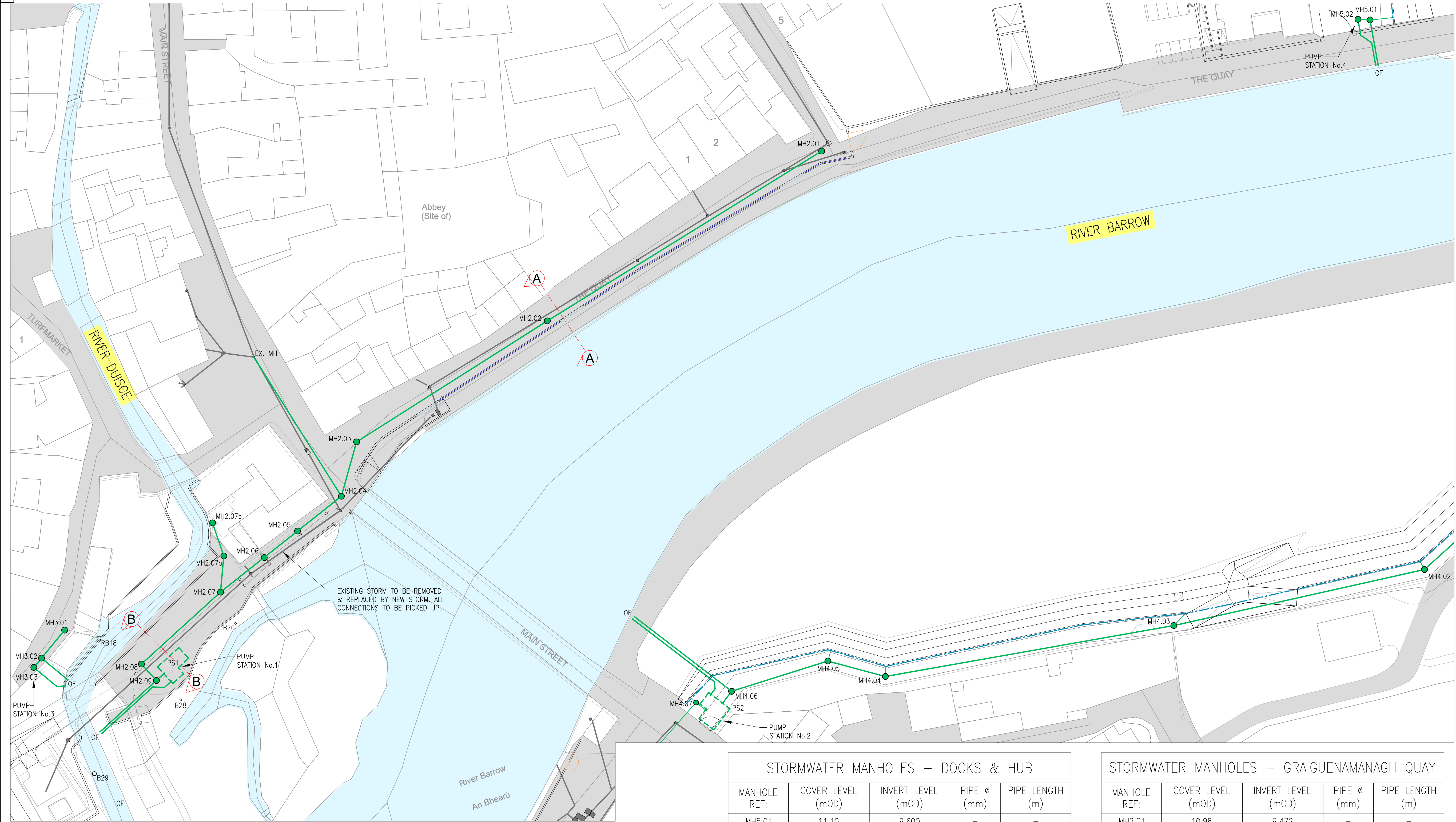
LEGEND:

- EXISTING SEWER
- EXISTING STORM DRAINAGE
- PROPOSED STORM DRAINAGE
- FILTER/TOE DRAIN

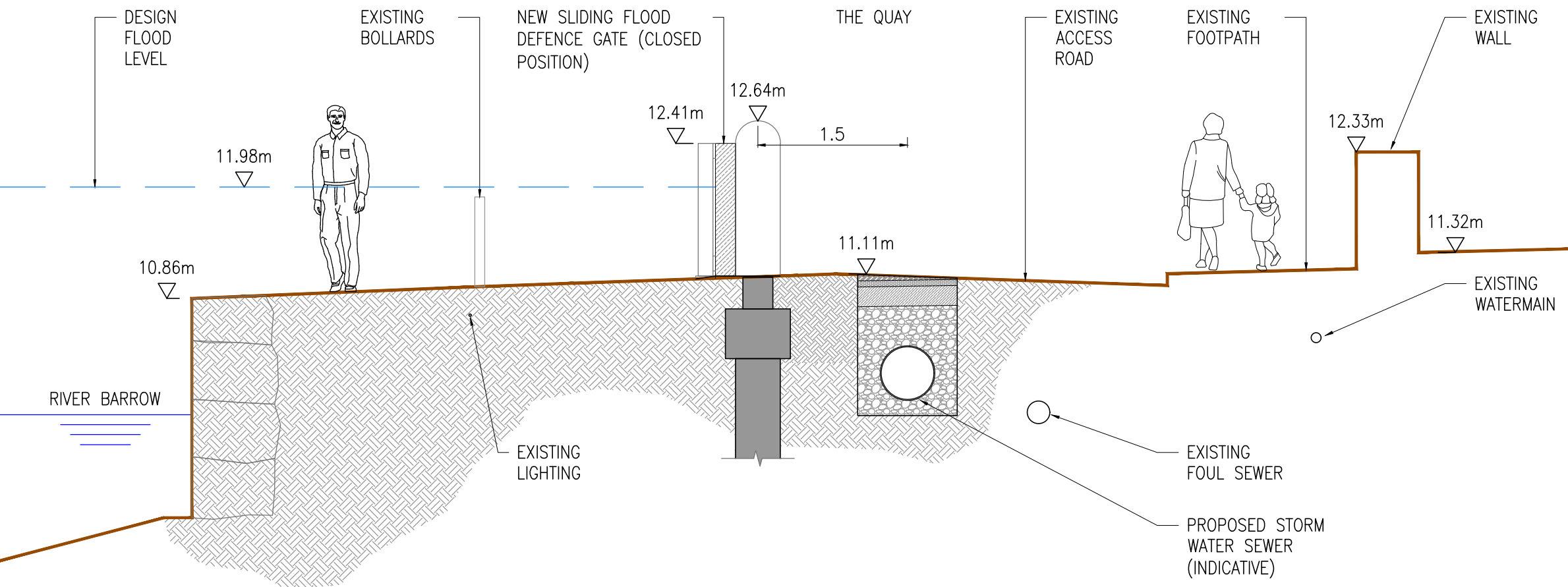
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01	18.11.24	ISSUE FOR PLANNING	LT	SH	SH
00	31.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App



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KILKENNY COUNTY COUNCIL					
PROJECT					
GRAIGUENAMANAGH TINNAHINCH FLOOD RELIEF SCHEME					
DRAWING TITLE					
STORMWATER DRAINAGE TINNAHINCH HOTEL STREET & QUAY GA LAYOUT					
STATUS					
FOR PLANNING					
Date: 31.07.24	Scale: 1:500	Drawn: LT	Chk: SH	App: SH	
Project No: W3451	Drw. No: W3451-AYE-DWG-W-1431			Rev:	



LAYOUT PLAN
SCALE: 1:500



SECTION A-A
(SCALE 1:50)

STORMWATER MANHOLES – DOCKS & HUB				
MANHOLE REF:	COVER LEVEL (mOD)	INVERT LEVEL (mOD)	PIPE Ø (mm)	PIPE LENGTH (m)
MH5.01	11.10	9.600	–	–
OF	–	9.533	300	10
MH5.01	11.10	9.833	–	–
MH5.02	11.20	9.813	300	3

STORMWATER MANHOLES – GRAIGUENAMANAGH QUAY				
MANHOLE REF:	COVER LEVEL (mOD)	INVERT LEVEL (mOD)	PIPE Ø (mm)	PIPE LENGTH (m)
MH2.01	10.98	9.472	–	–
MH2.02	11.08	9.312	525	80
MH2.03	11.48	9.125	525	56
MH2.04	12.60	9.079	525	14
MH2.05	11.40	9.023	525	14
MH2.06	11.42	8.981	525	10.5
MH2.07	11.50	8.925	525	13.83
MH2.08	11.40	8.819	525	26.5
MH2.09	11.40	8.797	525	5.5
OF	–	8.721	525	19
MH2.09	11.40	9.322	–	–
PS1	11.40	9.311	525	2.8
Ex	11.46	TBC	–	–
MH2.04	12.60	9.079	525	41
MH2.07b	11.25	8.960	–	–
MH2.07a	11.50	8.943	300	8.67
MH2.07	11.50	8.925	300	9

GENERAL NOTES



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4. INVERT LEVELS SUBJECT TO FINAL DESIGN.

LEGEND:

EXISTING SEWER	—
EXISTING STORM DRAINAGE	- - - -
PROPOSED STORM DRAINAGE	—
FILTER/TOE DRAIN	- - - -

01	04.03.25	ISSUE FOR PLANNING	LT	SH	SH
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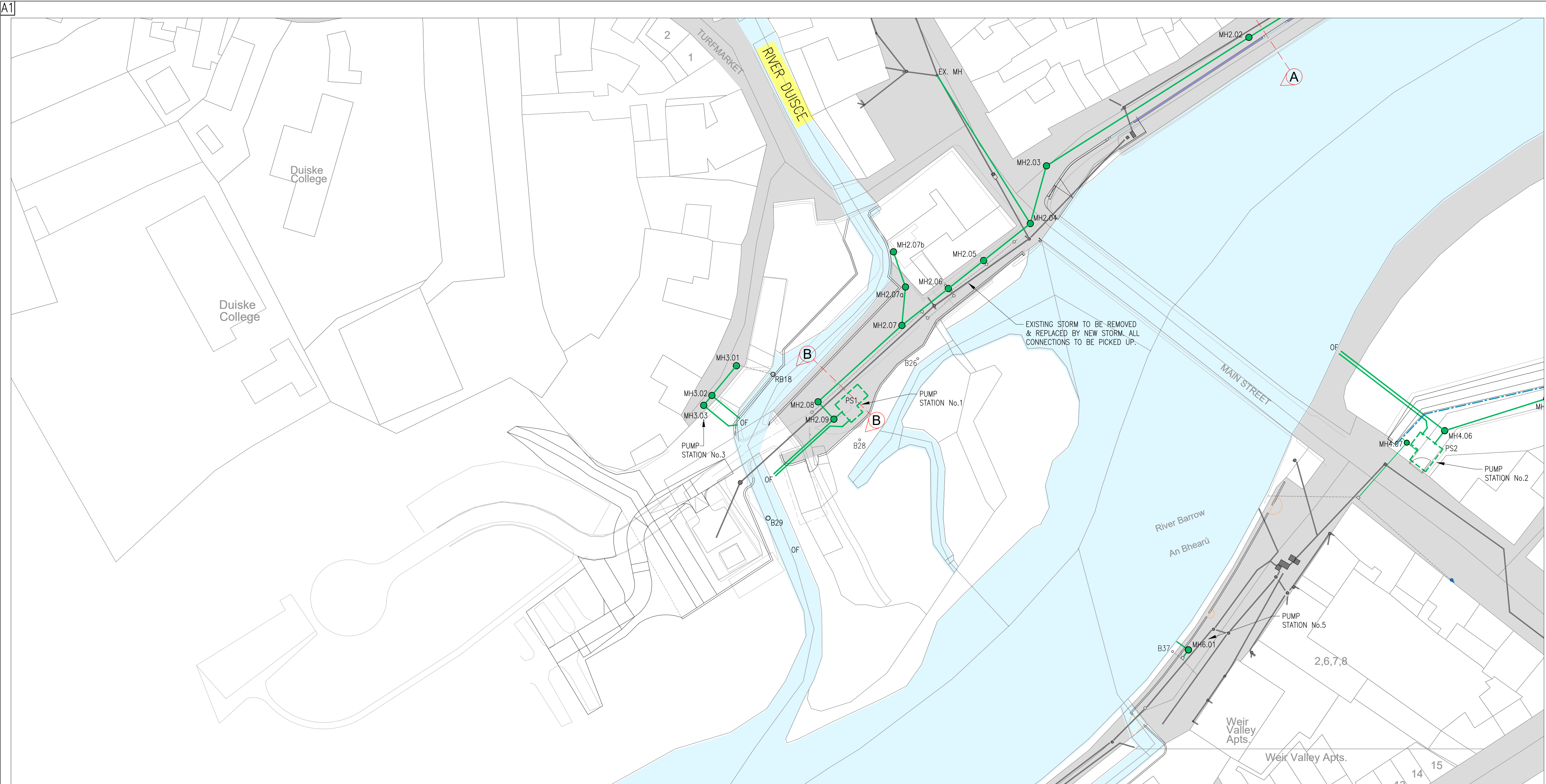
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PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

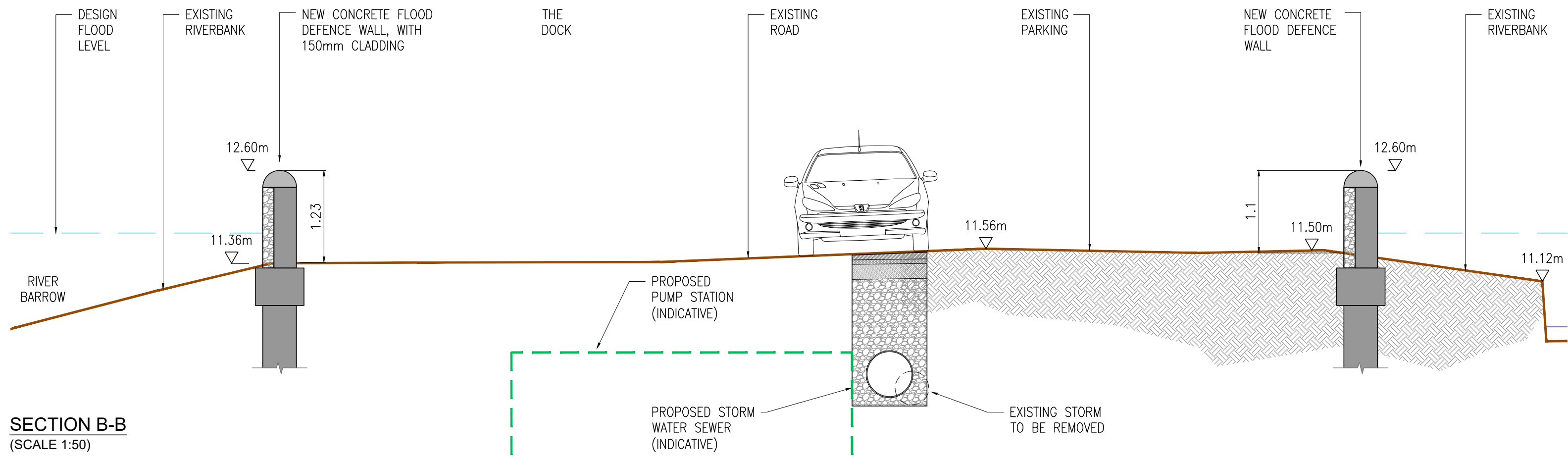
DRAWING TITLE
STORMWATER DRAINAGE
GRAIGUENAMANAGH QUAY
GA LAYOUT

STATUS
FOR PLANNING

Date: 31.07.24	Scale: 1:500	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Dwg. No: W3451-AYE-DWG-W-1432	Rev: 01		



LAYOUT PLAN
SCALE: 1:500



SECTION B-B
(SCALE 1:50)

STORMWATER MANHOLES – THE HUB				
MANHOLE REF:	COVER LEVEL (mOD)	INVERT LEVEL (mOD)	PIPE ø (mm)	PIPE LENGTH (m)
MH3.01	11.25	10.703	–	–
MH3.02	11.19	10.680	225	9
OF	11.13	10.650	225	8.5
MH3.02	11.19	9.727	–	–
MH3.03	11.18	9.667	225	3
OF	–	10.520	225	9.6

GENERAL NOTES



NOTES:

1. CYAL50338216 © NATIONAL MAPPING DIVISION OF TALTE EIREANN.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
3. FOR DETAILS OF FLOOD DEFENCES SEE DWGS W3451-AYE-DWG-W-1404 – W3451-AYE-DWG-W-1422.
4. INVERT LEVELS SUBJECT TO FINAL DESIGN.

LEGEND:

- EXISTING SEWER
EXISTING STORM DRAINAGE
PROPOSED STORM DRAINAGE
FILTER/TOE DRAIN

01	04.03.25	ISSUE FOR PLANNING	LT	SH	SH
00	31.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App

ayesa

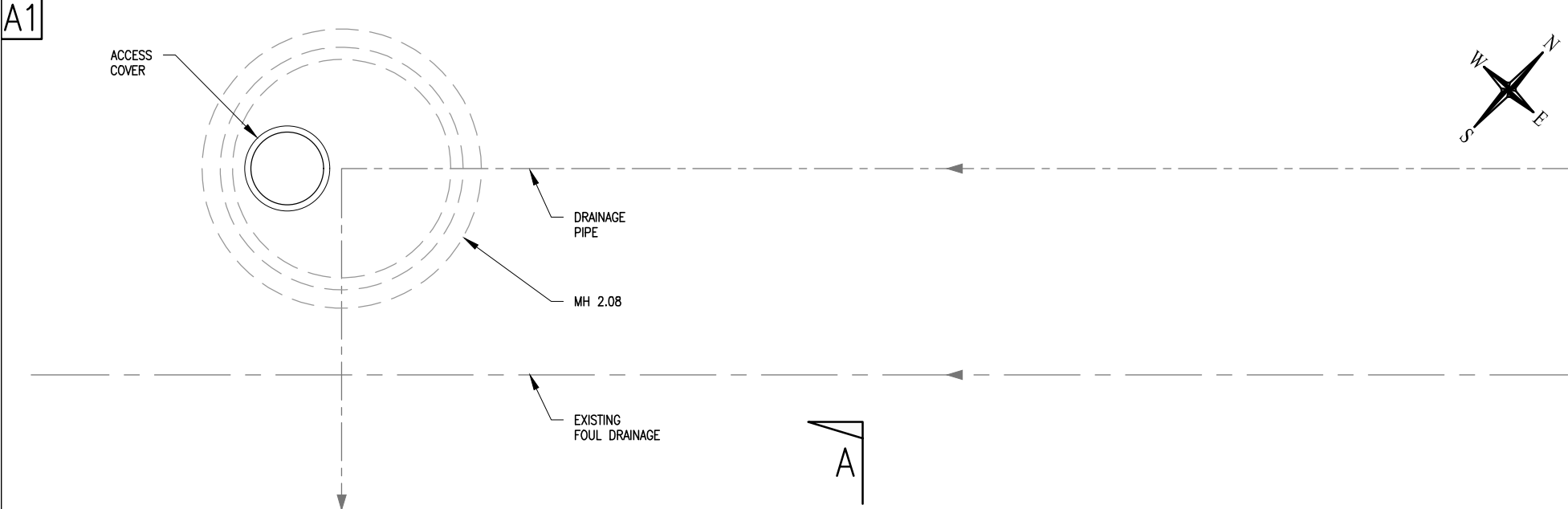
CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

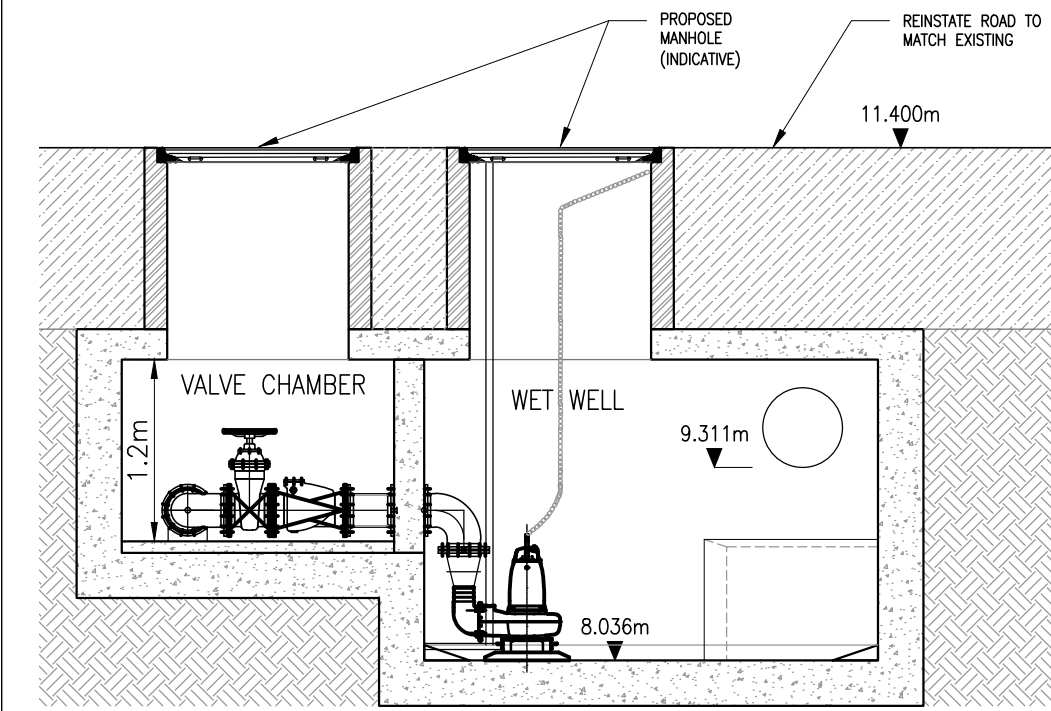
DRAWING TITLE
STORMWATER DRAINAGE
DOCKS & HUB
GA LAYOUT

STATUS
FOR PLANNING

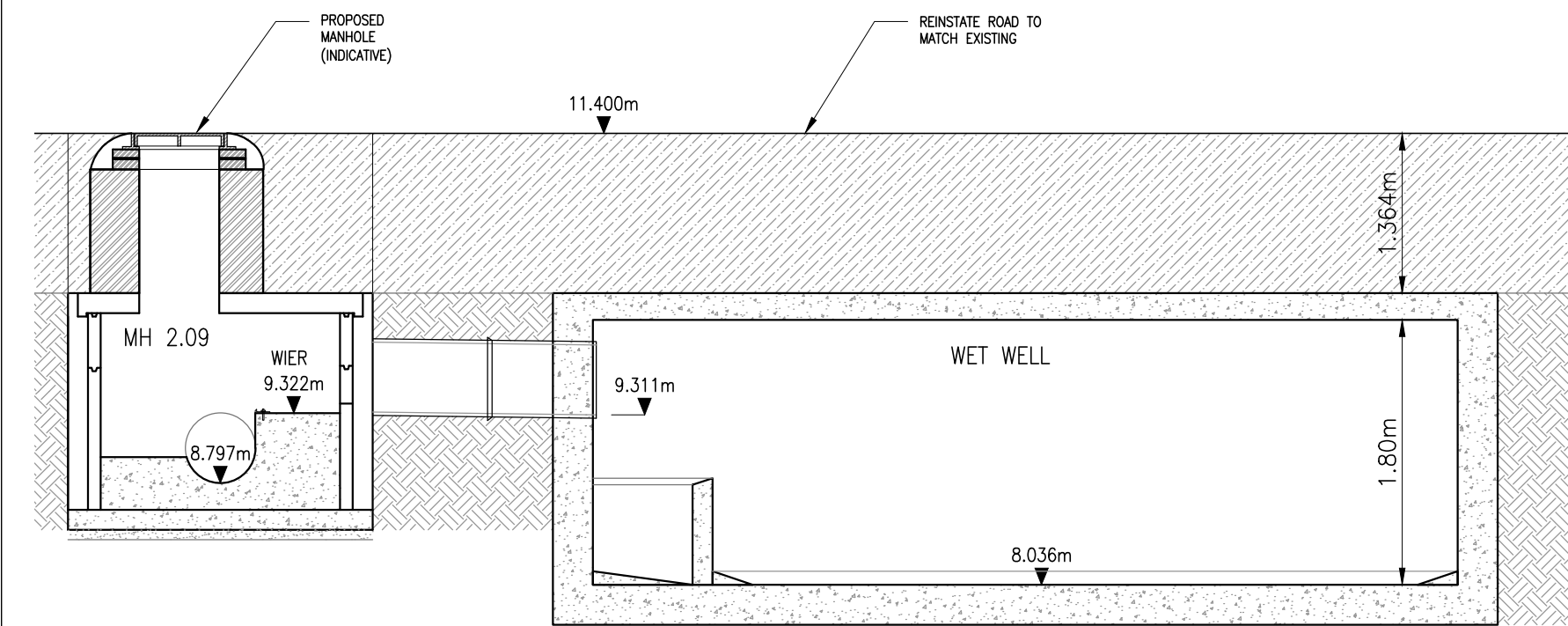
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Project No: W3451	Dwg. No: W3451-AYE-DWG-W-1433	Rev: 01		



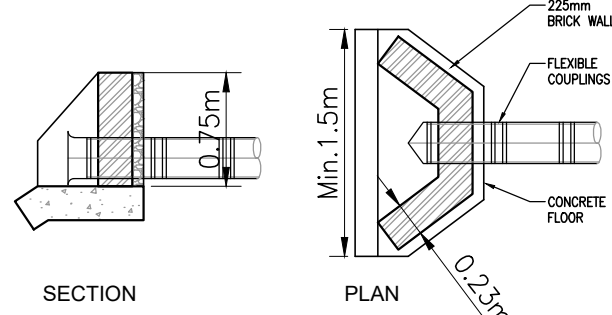
PS ROOF PLAN
(SCALE 1:50)



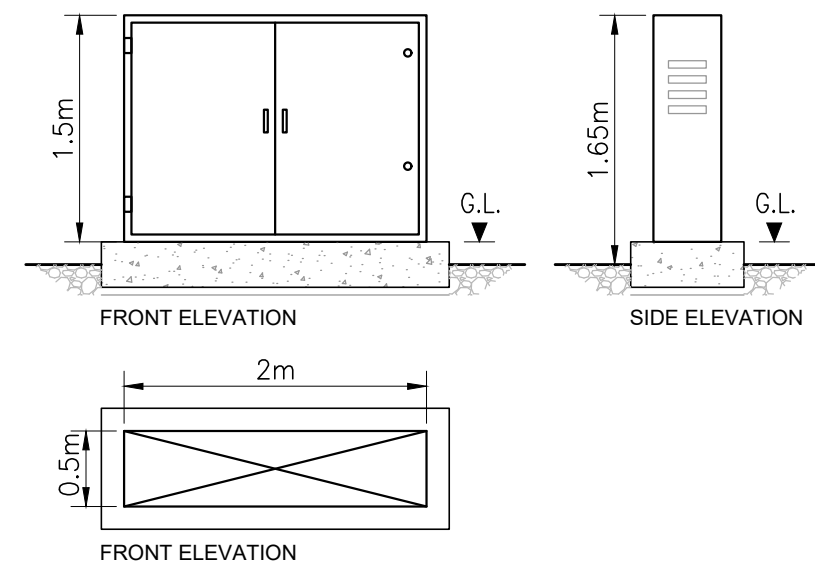
SECTION A-A
(SCALE 1:50)



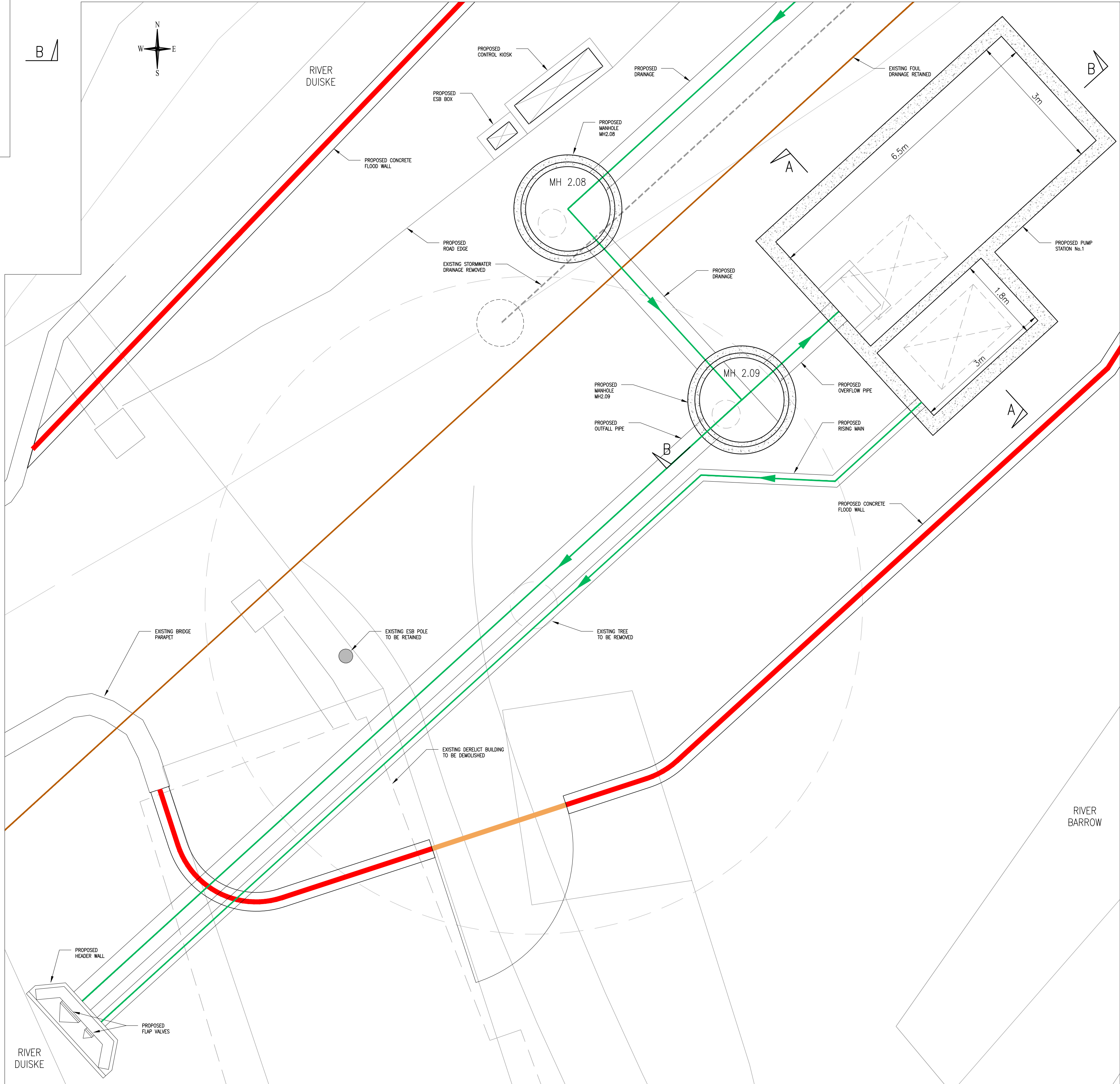
SECTION B-B
(SCALE 1:50)



TYPICAL HEADER WALL
(SCALE 1:50)



CONTROL KIOSK
(SCALE 1:50)



LAYOUT PLAN
SCALE: 1:50

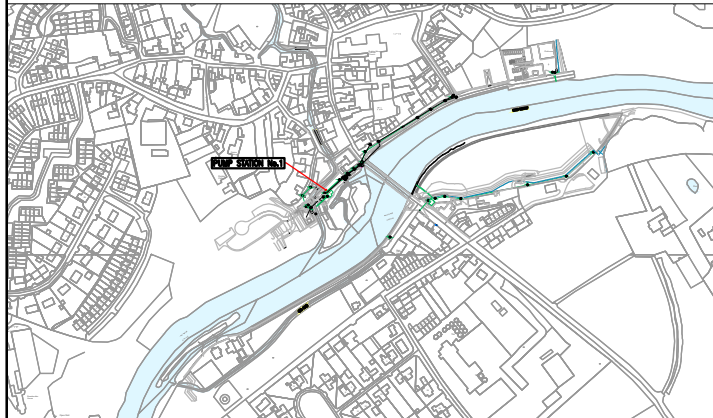
GENERAL NOTES

- NOTES:
1. CYAL50338216 © NATIONAL MAPPING DIVISION OF TAILTE EIREANN.
 2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 3. FOR DETAILS OF FLOOD DEFENCES SEE DWGS W3451-AYE-DWG-W-1404 - W3451-AYE-DWG-W-1422.

LEGEND:

- EXISTING SEWER
EXISTING STORM DRAINAGE
PROPOSED STORM DRAINAGE

KEYPLAN:



00	31.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App

ayesa

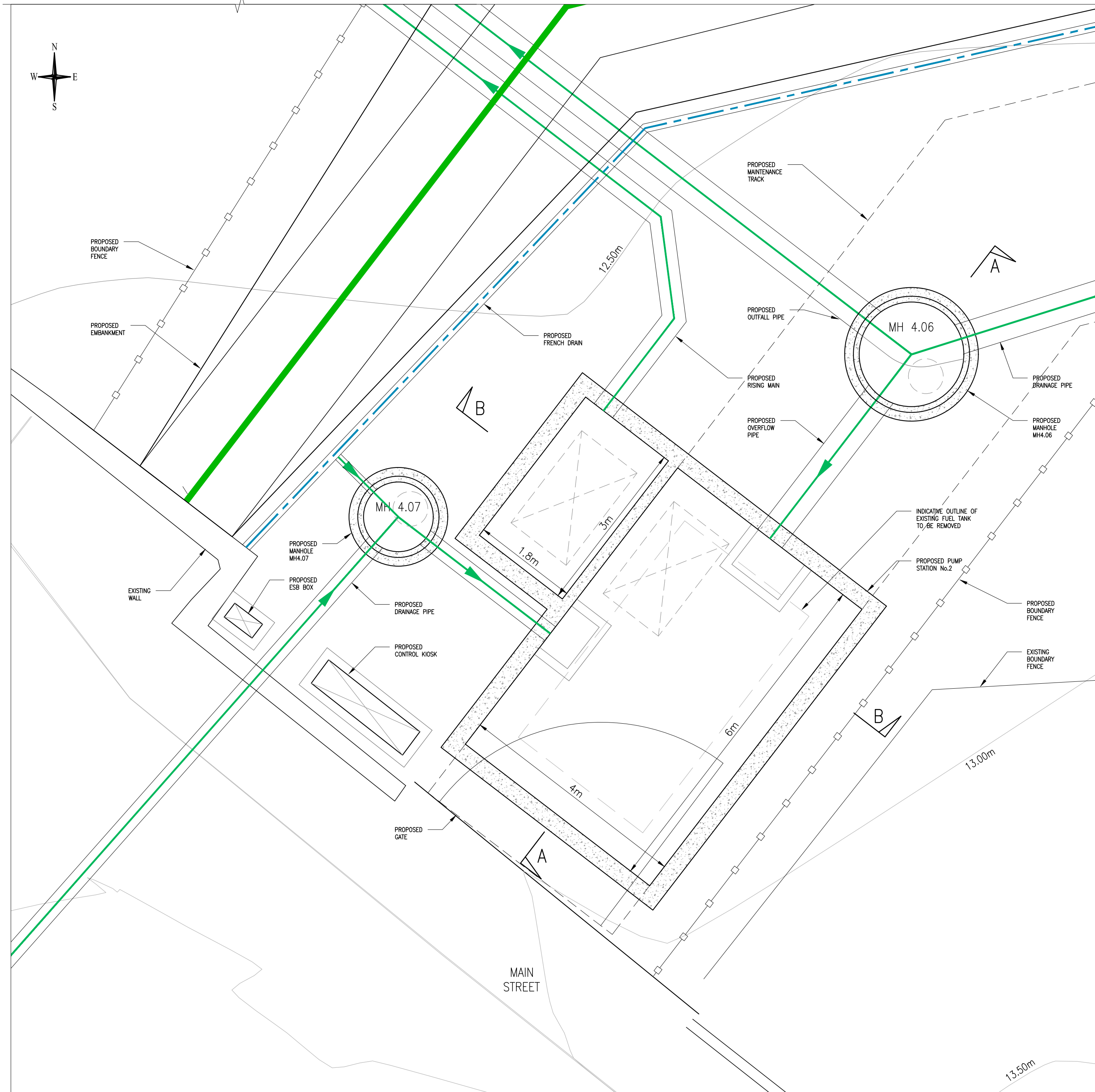
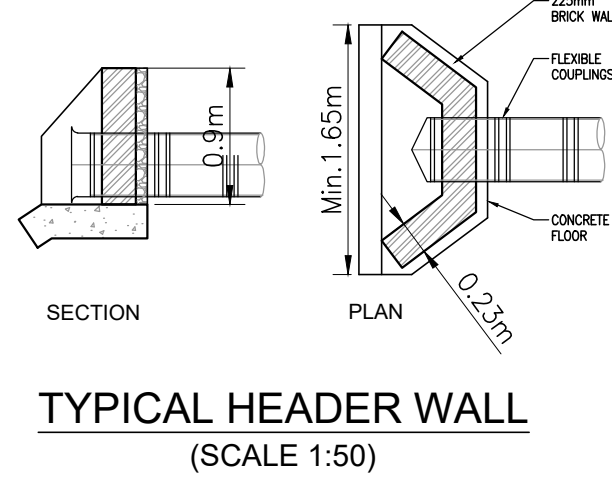
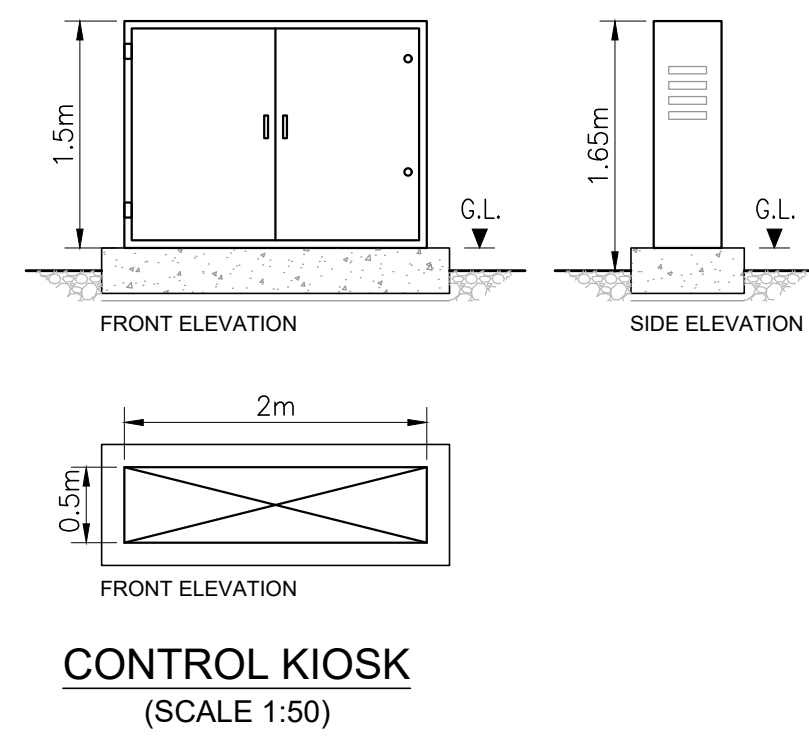
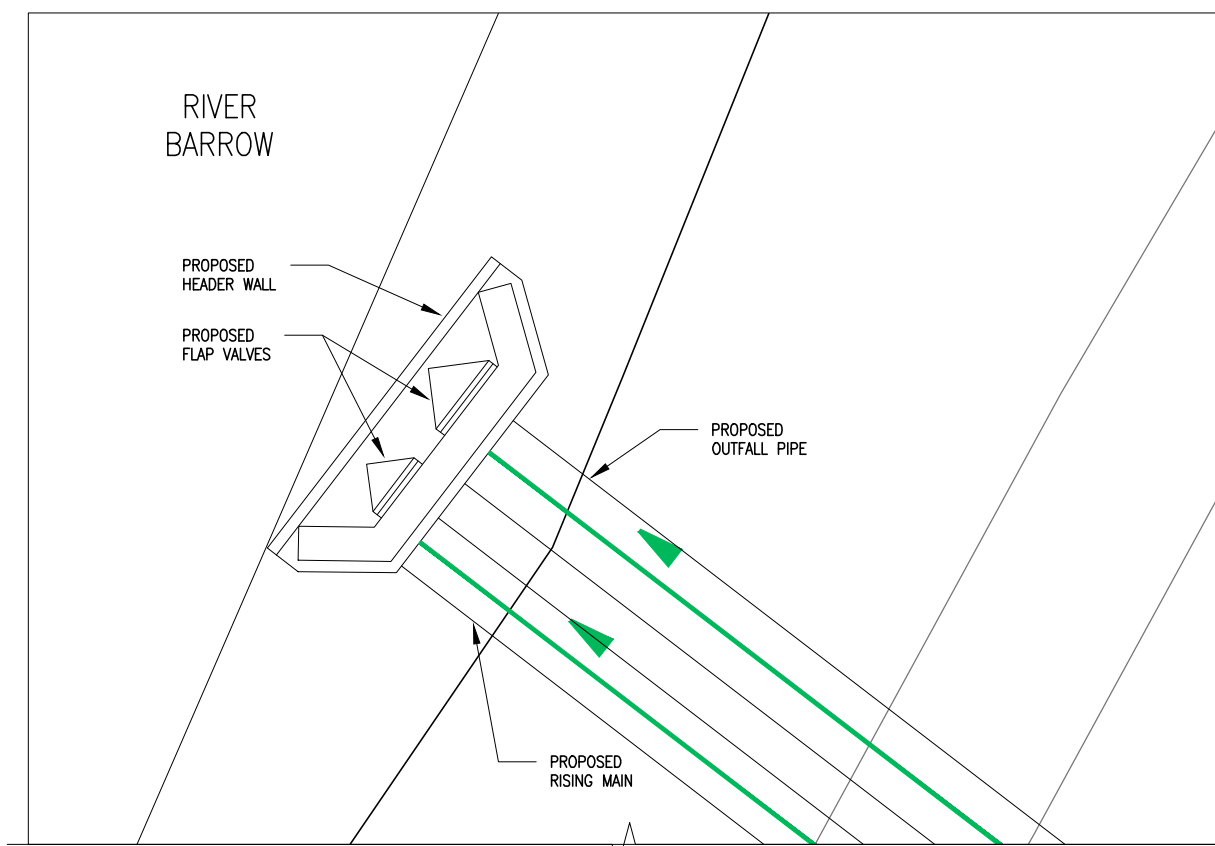
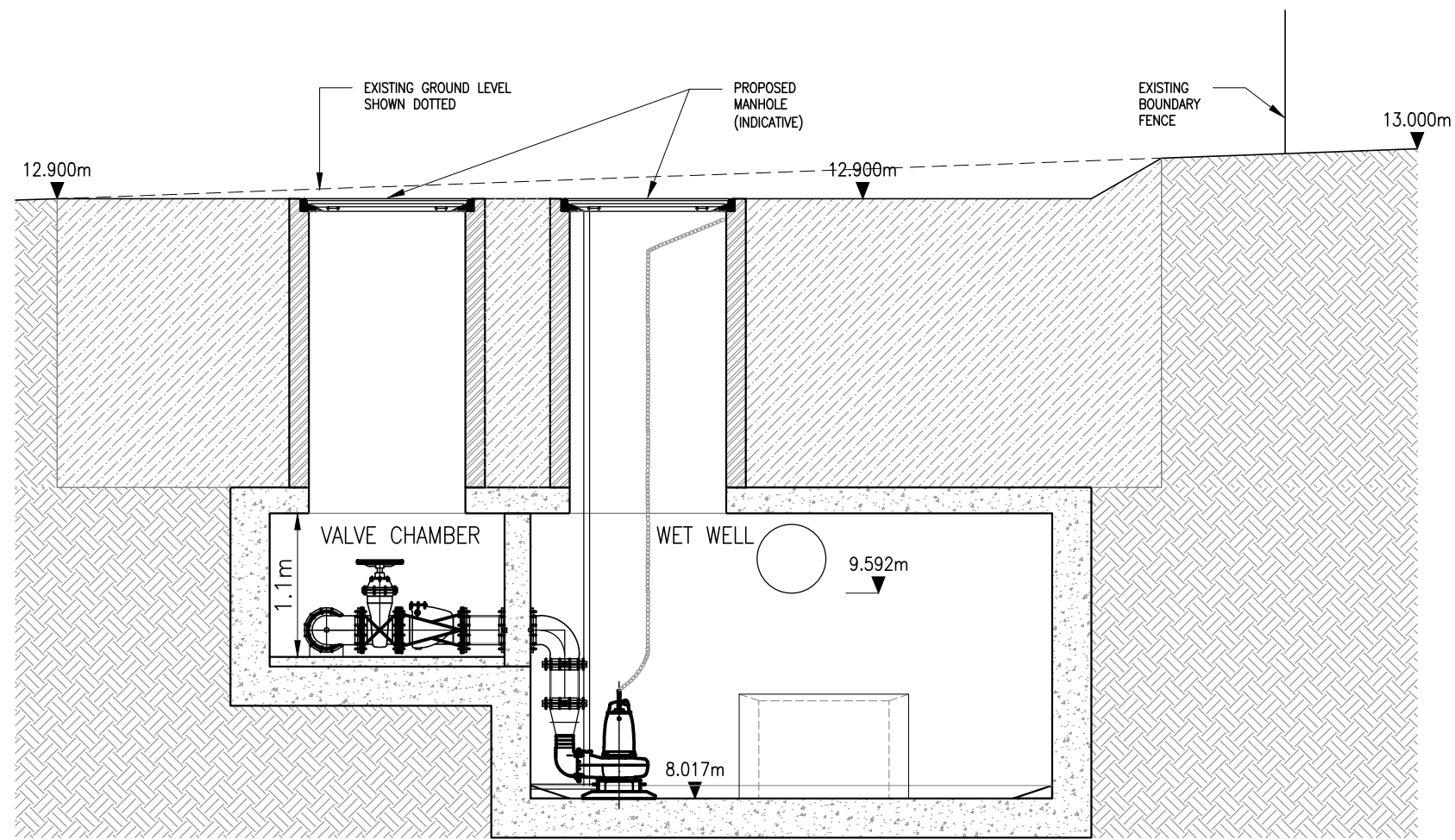
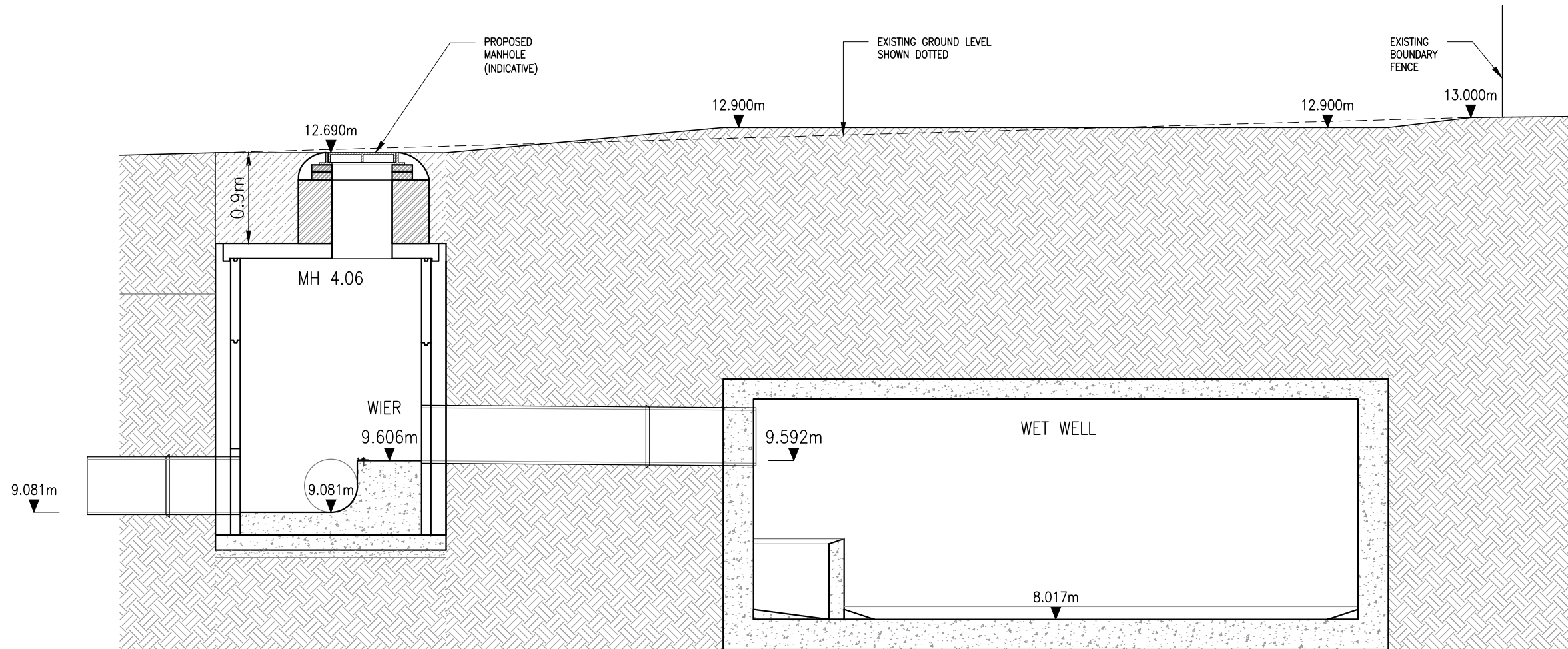
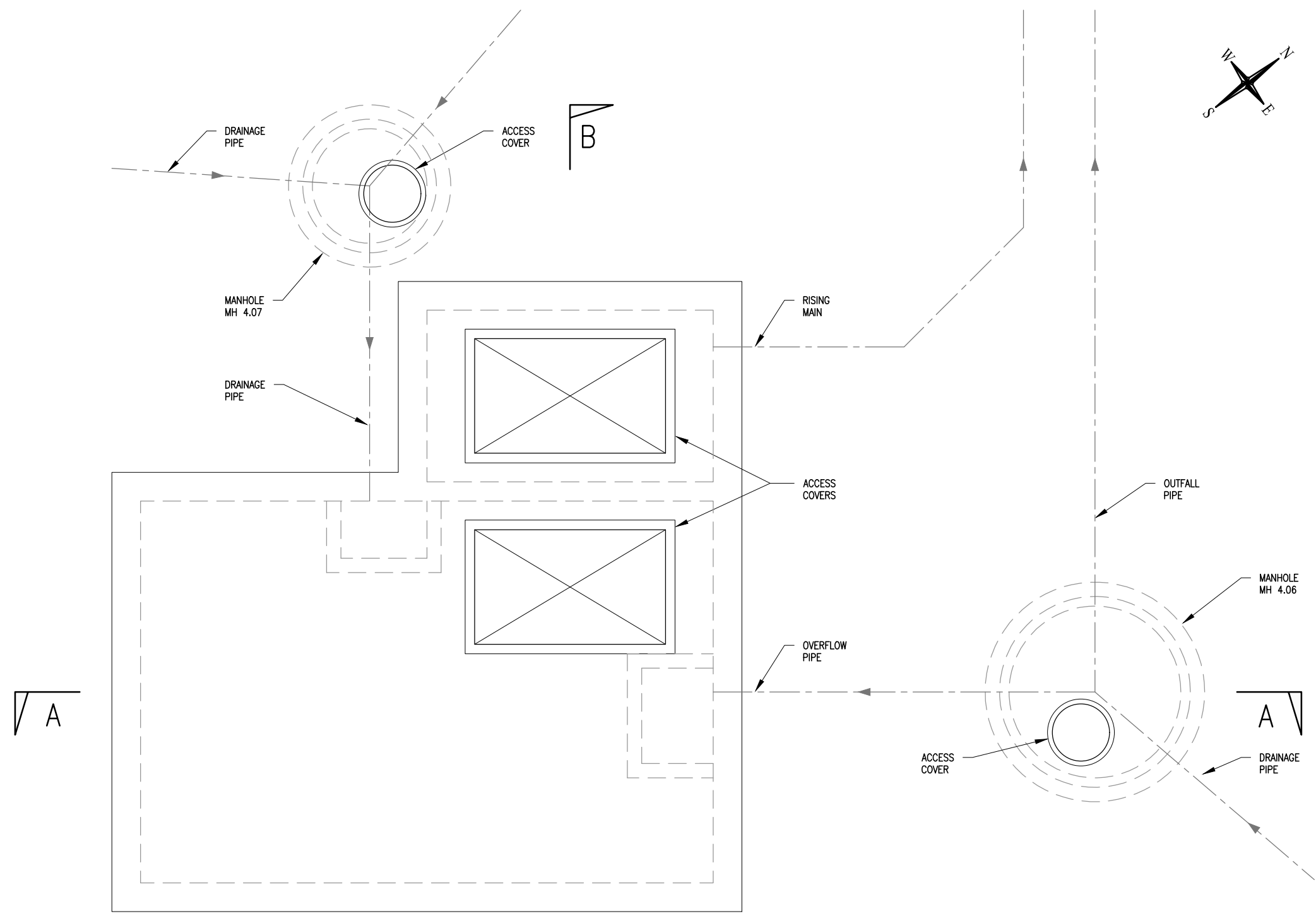
CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING TITLE
STORMWATER DRAINAGE
PUMPING STATION NO.1
GA LAYOUT, PLAN & SECTIONS

STATUS
FOR PLANNING

Date: 31.07.24	Scale: 1:50	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Dwg. No: W3451-AYE-DWG-W-1434	Rev: 00		



GENERAL NOTES

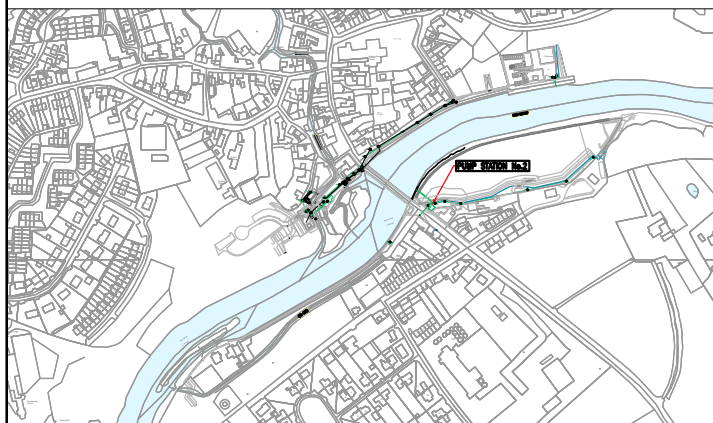
NOTES:

1. CYAL50338216 © NATIONAL MAPPING DIVISION OF TALTE EIREANN.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
3. FOR DETAILS OF FLOOD DEFENCES SEE DWGS W3451-AYE-DWG-W-1404 - W3451-AYE-DWG-W-1422.

LEGEND:

EXISTING SEWER	
EXISTING STORM DRAINAGE	
PROPOSED STORM DRAINAGE	
PROPOSED EMBANKMENT	

KEYPLAN:



01	04.03.25	ISSUE FOR PLANNING	LT	SH	SH
00	31.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App

ayesa

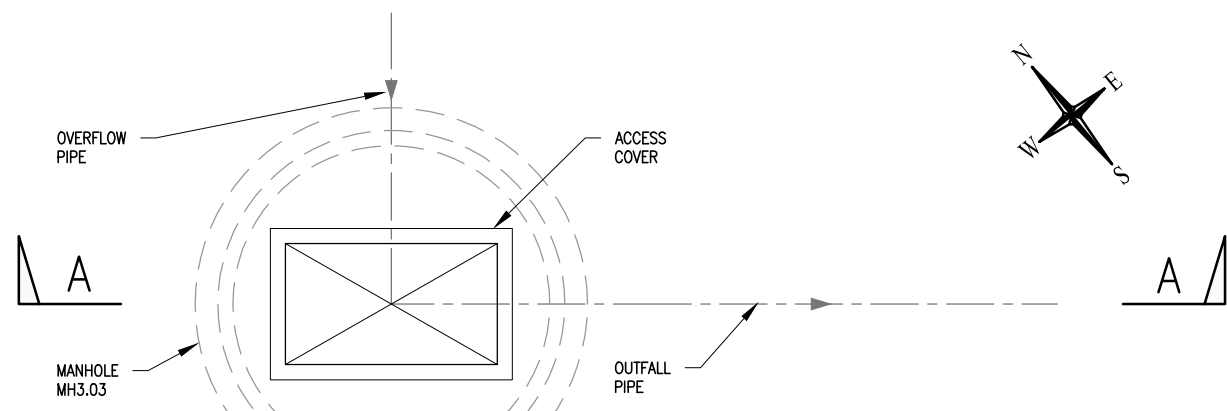
CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

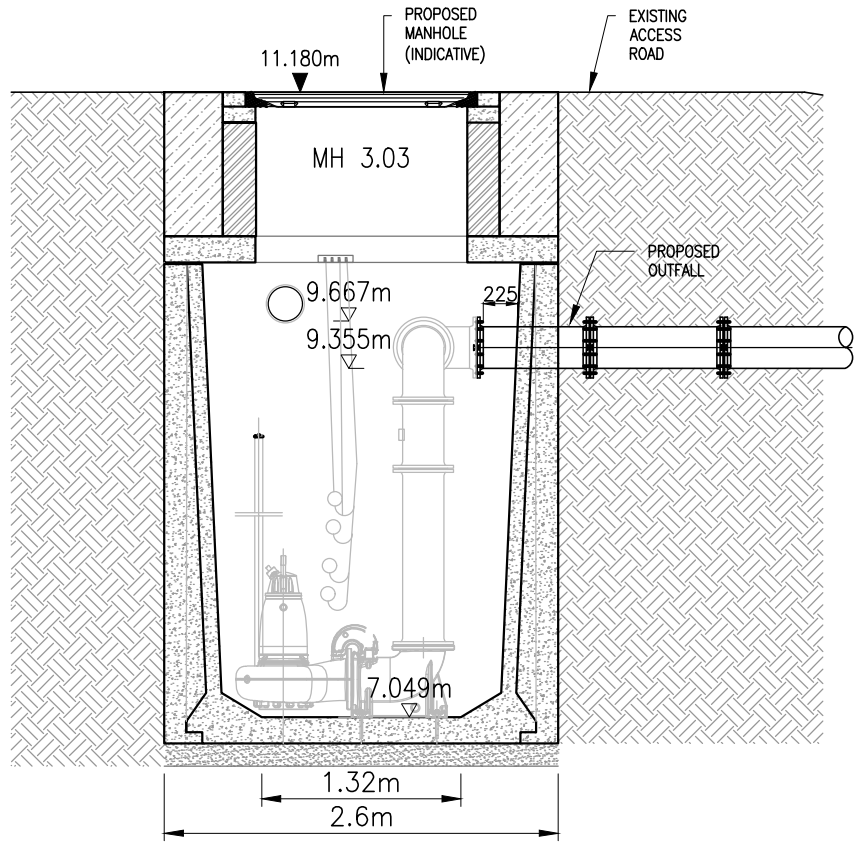
DRAWING TITLE
STORMWATER DRAINAGE
PUMPING STATION NO.2
GA LAYOUT, PLAN & SECTIONS

STATUS
FOR PLANNING

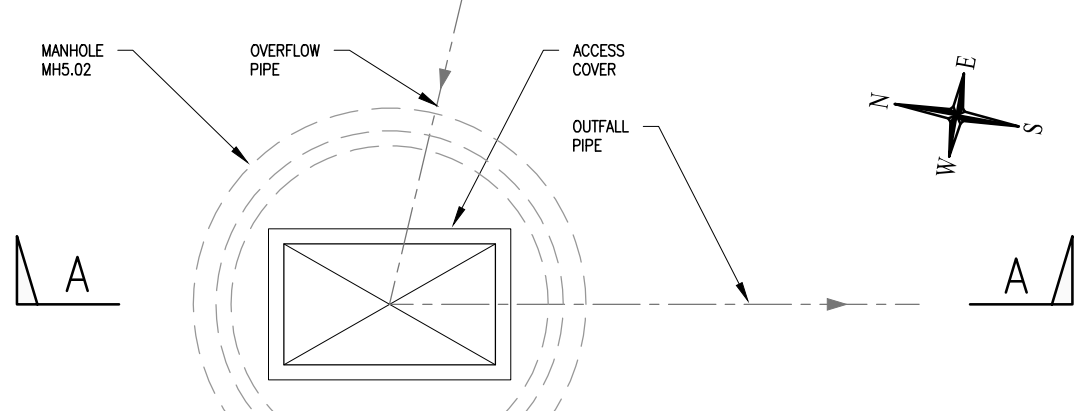
Date: 31.07.24	Scale: 1:50	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Org. No: W3451-AYE-DWG-W-1435	Rev: 01		



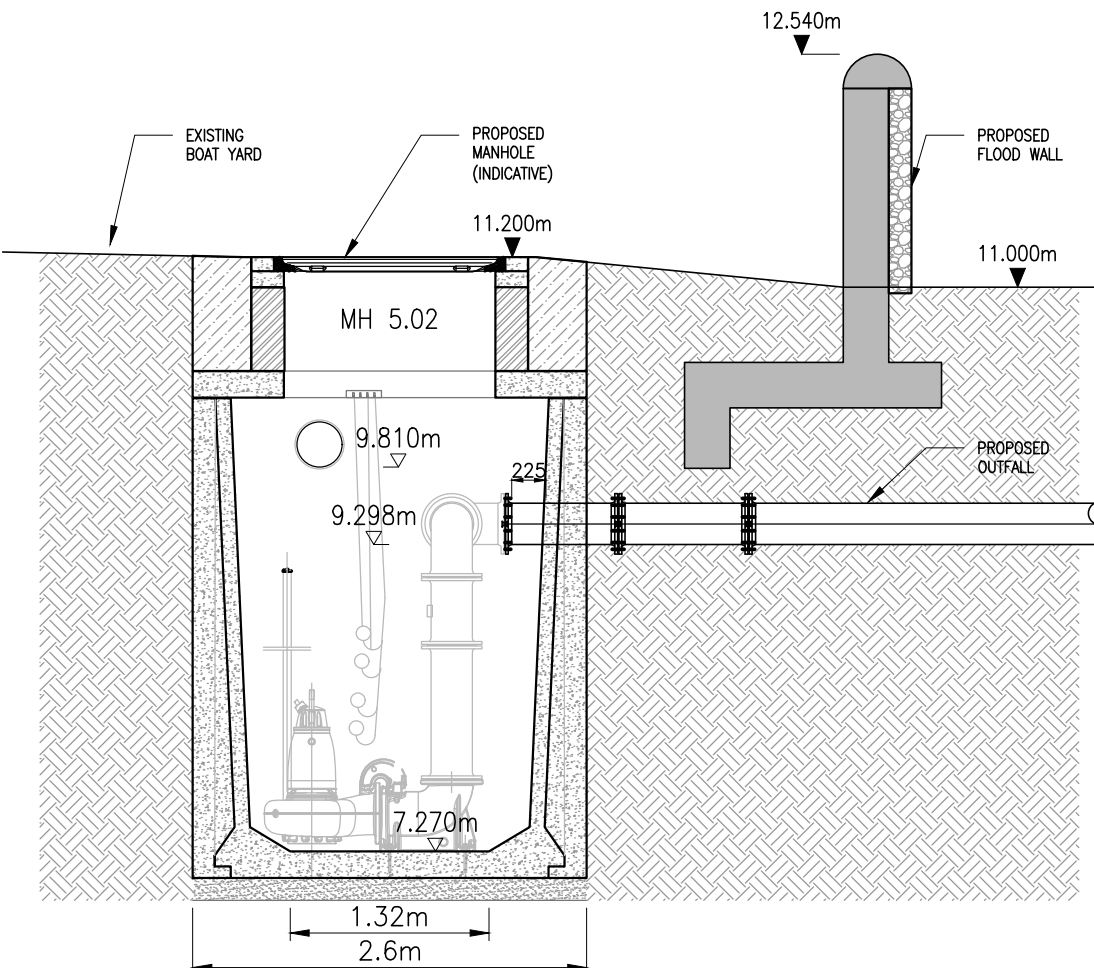
PS ROOF PLAN
(SCALE 1:50)



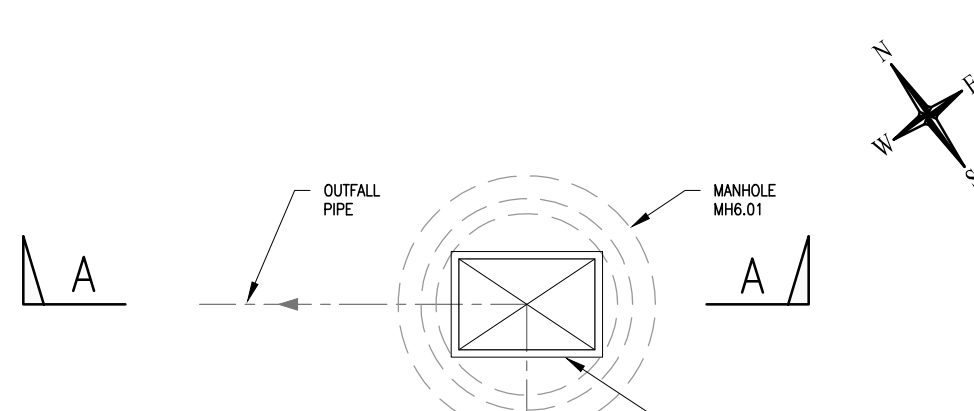
SECTION A-A
(SCALE 1:50)



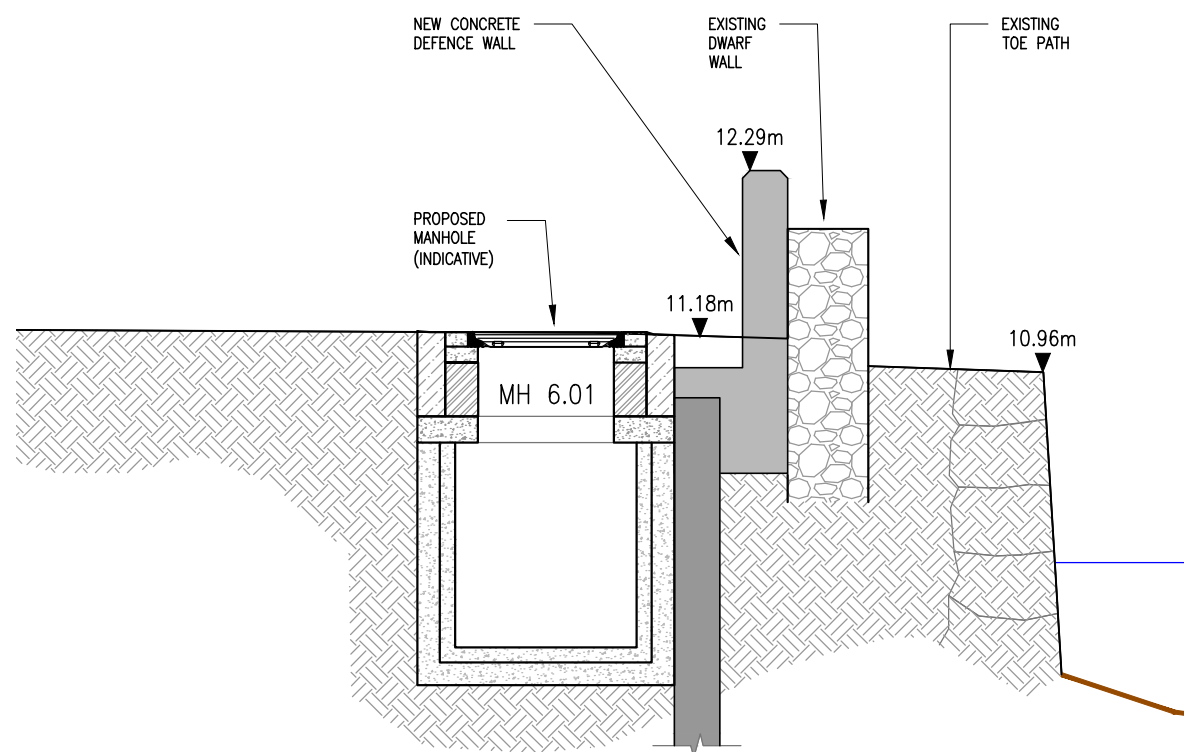
PS ROOF PLAN
(SCALE 1:50)



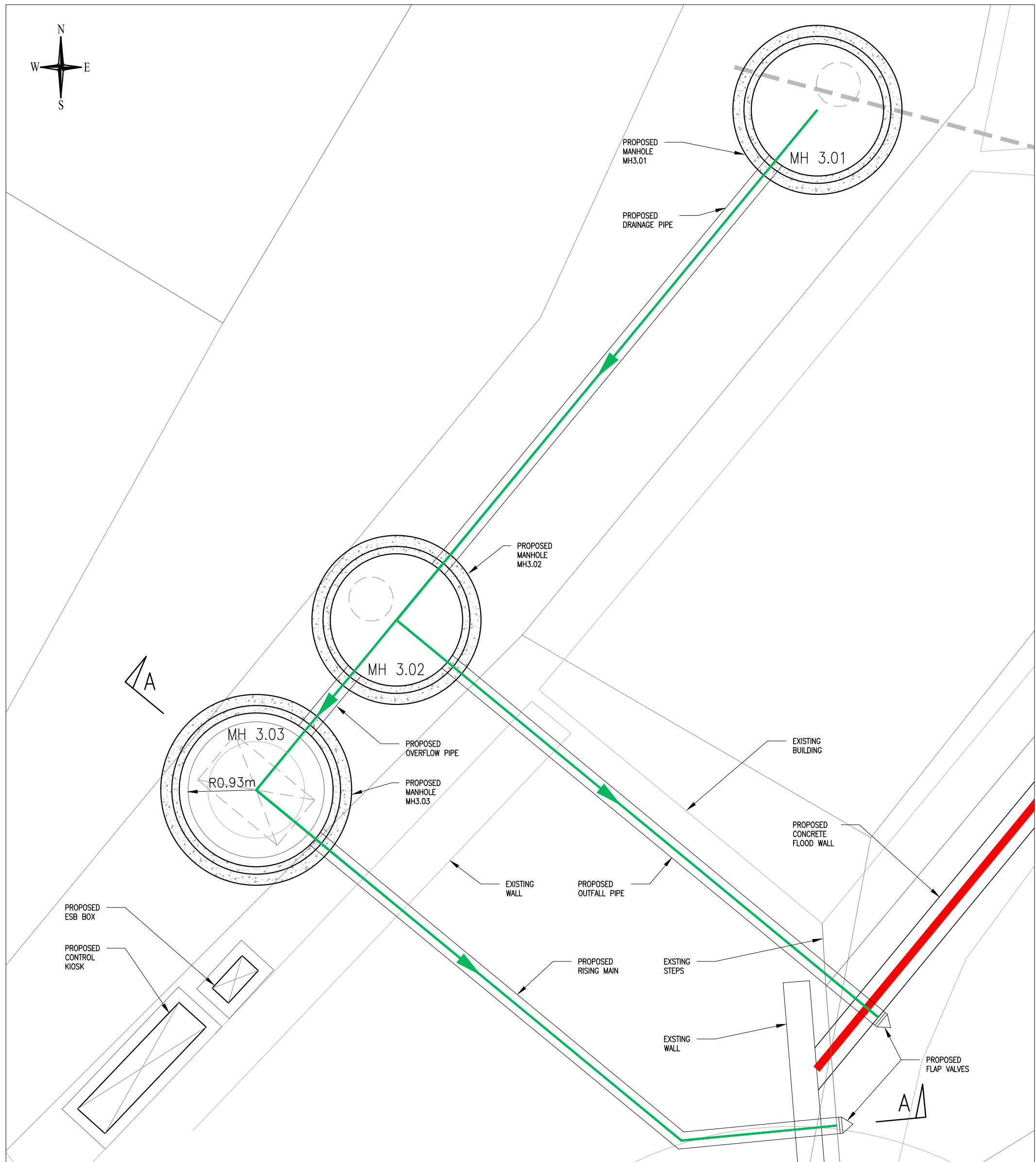
SECTION A-A
(SCALE 1:50)



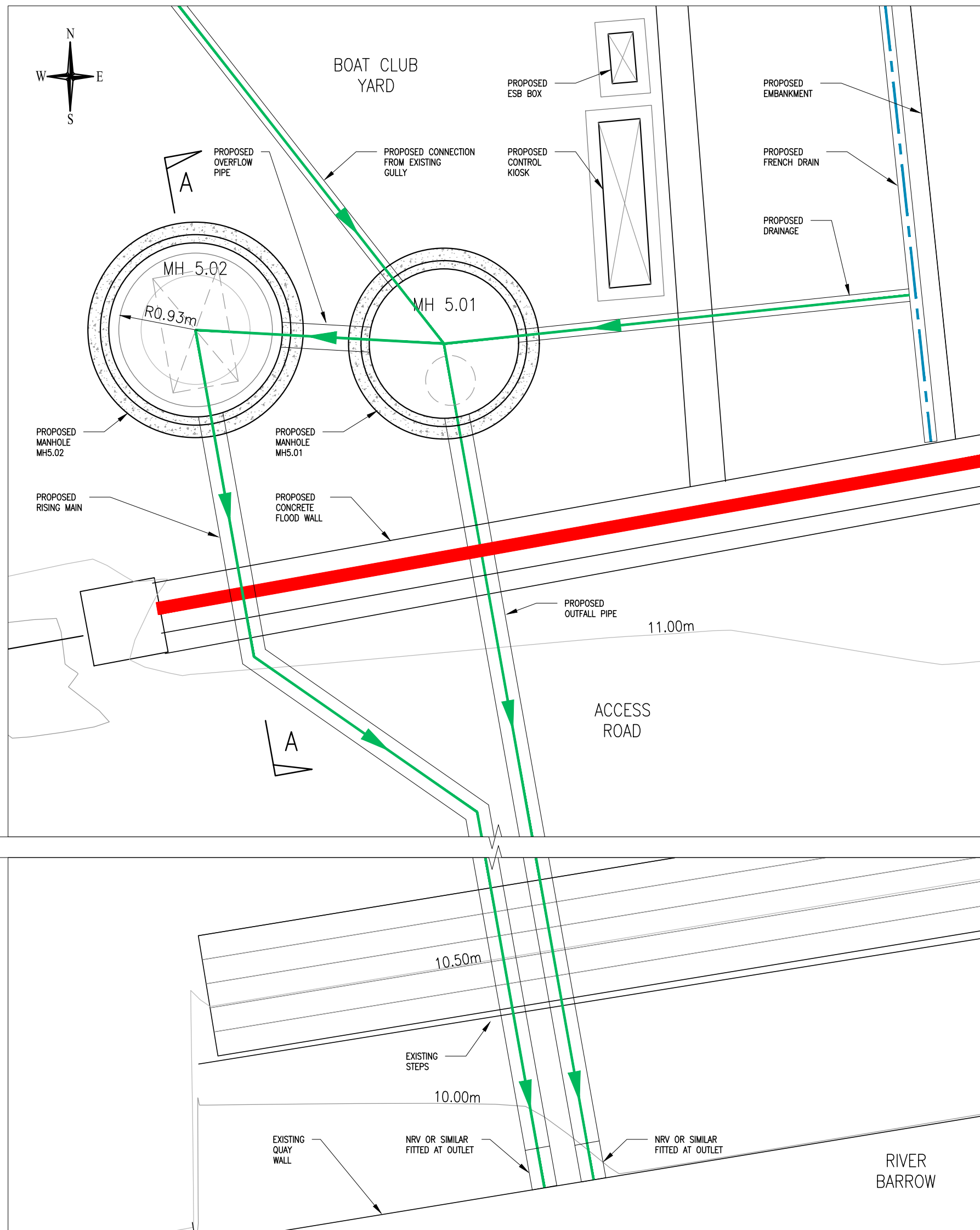
PS ROOF PLAN
(SCALE 1:50)



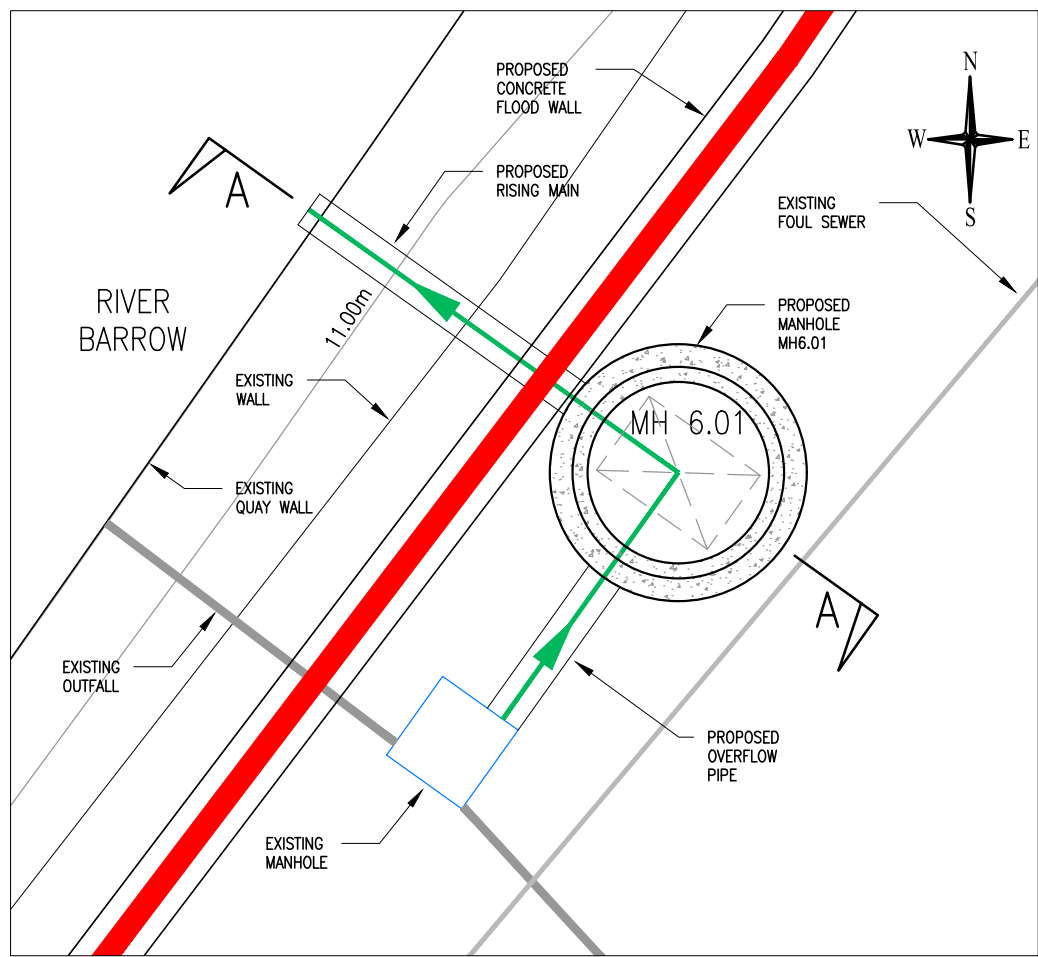
SECTION A-A
(SCALE 1:50)



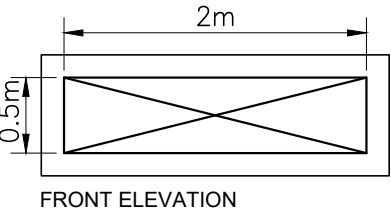
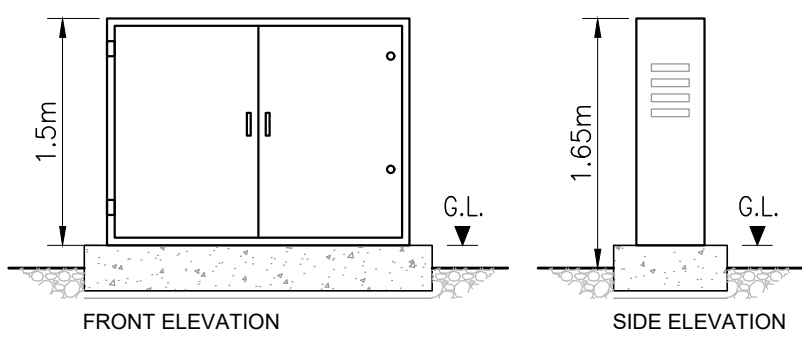
LAYOUT PLAN - PS3
SCALE: 1:50



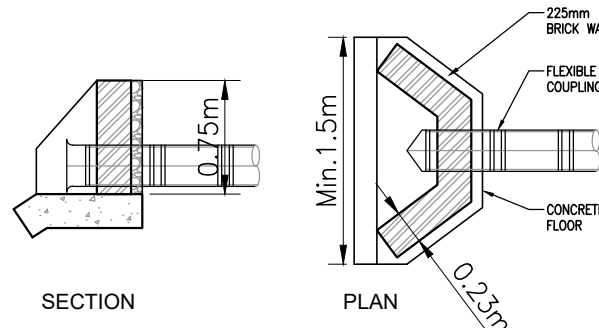
LAYOUT PLAN - PS4
SCALE: 1:50



LAYOUT PLAN - PS5
SCALE: 1:50



CONTROL KIOSK
(SCALE 1:50)



TYPICAL HEADER WALL
(SCALE 1:50)

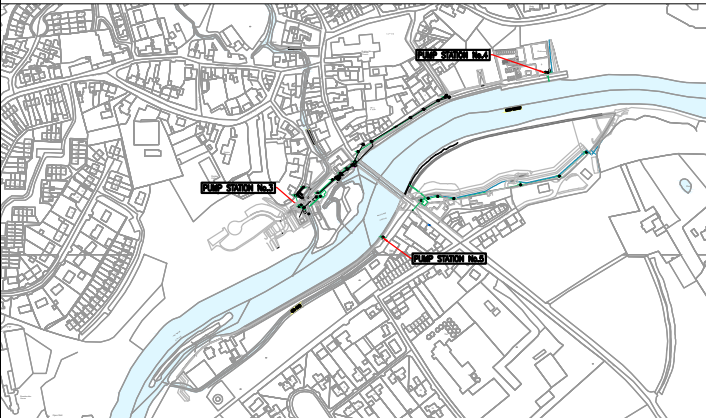
GENERAL NOTES

- NOTES:
1. CYAL50338216 © NATIONAL MAPPING DIVISION OF TAILTE EIREANN.
 2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 3. FOR DETAILS OF FLOOD DEFENCES SEE DWGS W3451-AYE-DWG-W-1404 - W3451-AYE-DWG-W-1422.

LEGEND:

- EXISTING SEWER
EXISTING STORM DRAINAGE
PROPOSED STORM DRAINAGE
PROPOSED EMBANKMENT

KEYPLAN:



01	04.03.25	ISSUE FOR PLANNING	LT	SH	SH
00	26.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App

ayesa

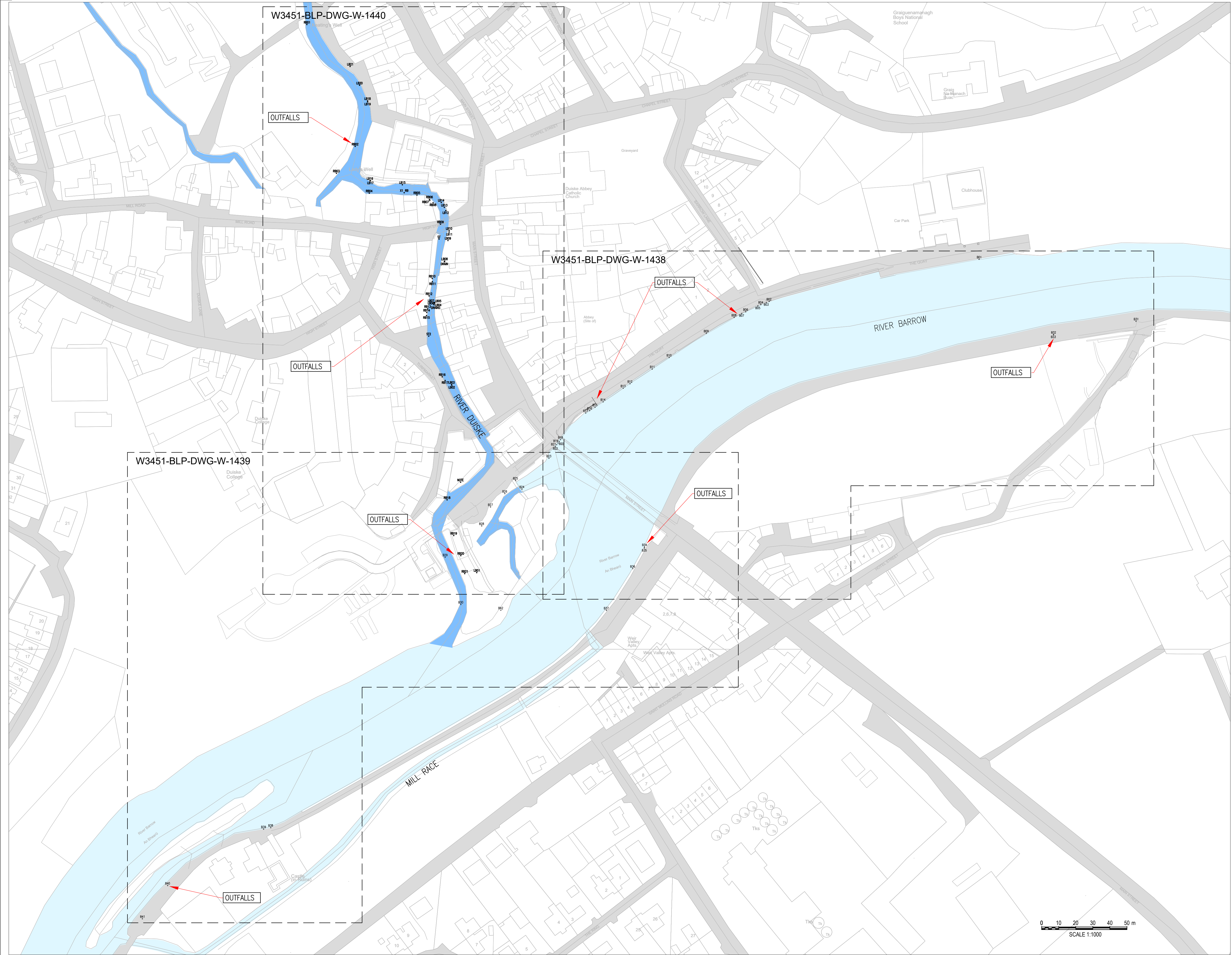
CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING TITLE
STORMWATER DRAINAGE
PUMPING STATIONS NO.3 & 4
GA LAYOUT, PLAN & SECTIONS

STATUS
FOR PLANNING

Date: 26.07.24	Scale: 1:50	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Dwg. No: W3451-AYE-DWG-W-1436	Rev: 01		



GENERAL NOTES

NOTES:

1. CIAL50338216 © NATIONAL MAPPING DIVISION OF TALTE EIREANN.

LEGEND:

NRV – NON RETURN VALVE

Rev

00

26.07.24

ISSUE FOR PLANNING

LT

SH

SH

Rev

Date

Description

By

Chk

App

ayesa

CLIENT

KILKENNY COUNTY COUNCIL

PROJECT

GRAIGUENAMAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING TITLE

OUTFALL WORKS
OVERALL LAYOUT PLAN

STATUS

FOR PLANNING

Date: 02.11.23

Scale: 1:1000

Drawn: LT

Chk: SH

App: SH

Project No:

W3451

Drw. No:

W3451–AYE–DWG–W–1437

Rev:

00



GRAIGUENAMANAGH OUTFALLS – RIVER BARROW					
OUTFALL No:	OUTFALL REF:	Easting (ITM)	Northing (ITM)	OUTFALL Ømm (ID)	COMMENT
01	B01	671148.9433	643775.2033	225	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
02	B02	671025.9029	643750.5569	100	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
03	B03	671024.2641	643749.9691	85	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
04	B04	671021.0619	643748.7259	170	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
05	B05	671019.3171	643747.9582	125	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
06	B06	671012.1862	643744.4928	150	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
07	B07	671009.8392	643743.5023	85	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
08	B08	671005.3656	643741.2057	85	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
09	B09	670989.0665	643731.8911	120	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
10	B10	670967.3012	643717.7304	120	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
11	B11	670957.3750	643710.9600	115	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
12	B12	670944.3878	643702.3680	120	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
13	B13	670940.3849	643699.7299	120	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
14	B14	670928.6180	643691.7399	115	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
15	B15	670923.8878	643688.6202	360	
16	B16	670920.7284	643686.6192	115	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
17	B17	670918.4069	643685.1672	120	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
18	B18	670903.6632	643669.5836	45	
19	B19	670902.9163	643668.6056	45	
20	B20	670902.1693	643667.6276	45	
21	B21	670901.4223	643666.6496	45	
22	B22	670900.6754	643665.6716	45	
23	B23	670896.8668	643658.6705	100	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
31	B31	671240.9401	643738.8996	170	
32	B32	671192.6388	643731.1073	90	
33	B33	671192.5184	643731.0765	90	
34	B34	670952.9423	643606.6965	115	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
35	B35	670952.8077	643606.0268	220	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
36	B36	670945.9686	643594.0409	240	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED

GENERAL NOTES



NOTES:

1. CIAL50338216 © NATIONAL MAPPING DIVISION OF TALTE EIREANN.

LEGEND:

NRV – NON RETURN VALVE

Bxx

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00	26.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App



CLIENT

KILKENNY COUNTY COUNCIL

PROJECT

GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

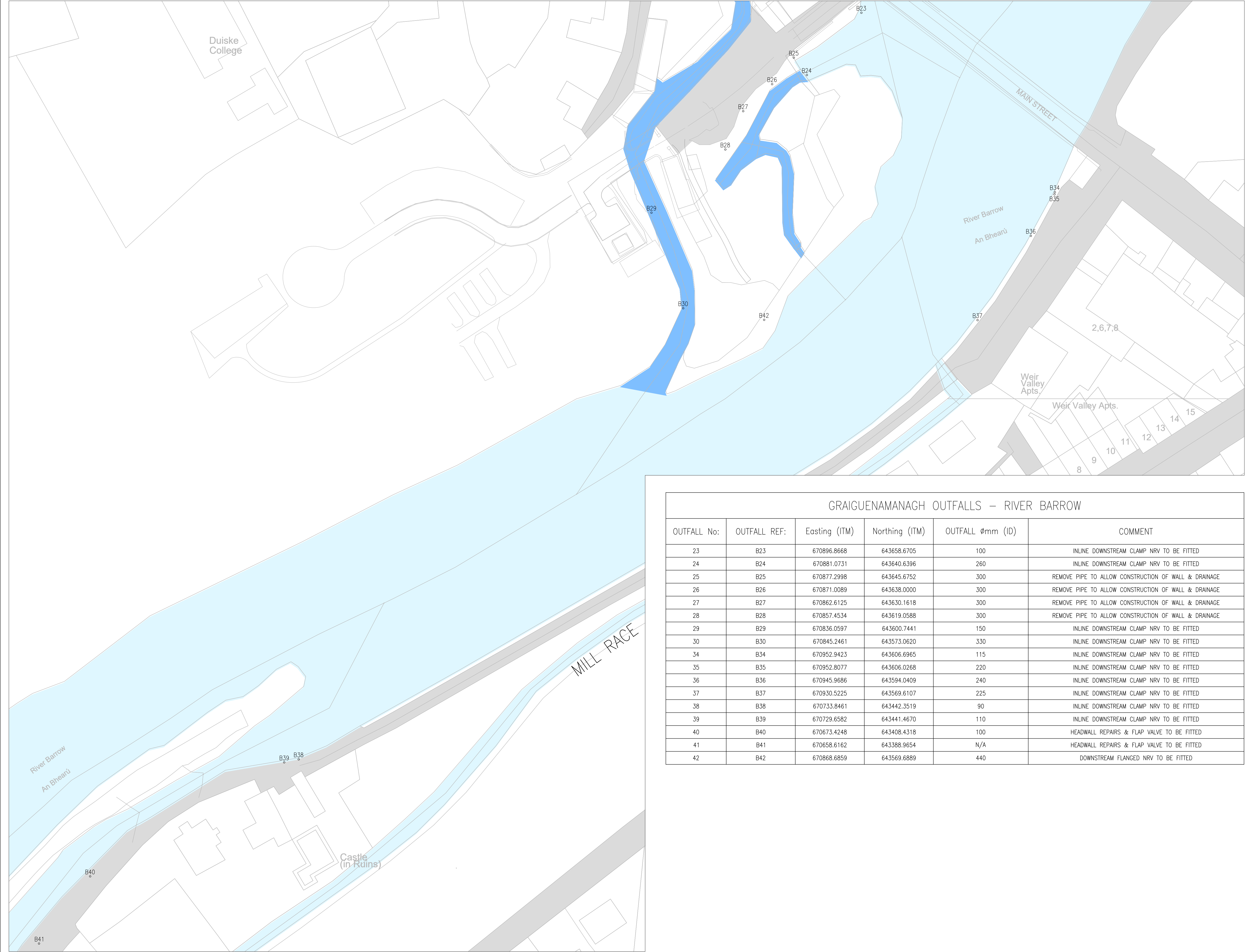
DRAWING TITLE

OUTFALL WORKS
RIVER BARROW OUTFALLS
SHEET 1

STATUS

FOR PLANNING

Date: 26.07.24	Scale: 1:1000	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Dwg. No: W3451–AYE–DWG–W–1438	Rev:	00	



GRAIGUENAMANAGH OUTFALLS – RIVER BARROW					
OUTFALL No:	OUTFALL REF:	Easting (ITM)	Northing (ITM)	OUTFALL Ømm (ID)	COMMENT
23	B23	670896.8668	643658.6705	100	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
24	B24	670881.0731	643640.6396	260	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
25	B25	670877.2998	643645.6752	300	REMOVE PIPE TO ALLOW CONSTRUCTION OF WALL & DRAINAGE
26	B26	670871.0089	643638.0000	300	REMOVE PIPE TO ALLOW CONSTRUCTION OF WALL & DRAINAGE
27	B27	670862.6125	643630.1618	300	REMOVE PIPE TO ALLOW CONSTRUCTION OF WALL & DRAINAGE
28	B28	670857.4534	643619.0588	300	REMOVE PIPE TO ALLOW CONSTRUCTION OF WALL & DRAINAGE
29	B29	670836.0597	643600.7441	150	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
30	B30	670845.2461	643573.0620	330	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
34	B34	670952.9423	643606.6965	115	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
35	B35	670952.8077	643606.0268	220	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
36	B36	670945.9686	643594.0409	240	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
37	B37	670930.5225	643569.6107	225	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
38	B38	670733.8461	643442.3519	90	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
39	B39	670729.6582	643441.4670	110	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
40	B40	670673.4248	643408.4318	100	HEADWALL REPAIRS & FLAP VALVE TO BE FITTED
41	B41	670658.6162	643388.9654	N/A	HEADWALL REPAIRS & FLAP VALVE TO BE FITTED
42	B42	670868.6859	643569.6889	440	DOWNSTREAM FLANGED NRV TO BE FITTED

GENERAL NOTES



NOTES:

1. CIAL50338216 © NATIONAL MAPPING DIVISION OF TALTE EIREANN.

LEGEND:

NRV – NON RETURN VALVE

Bxx

S

00	26.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App



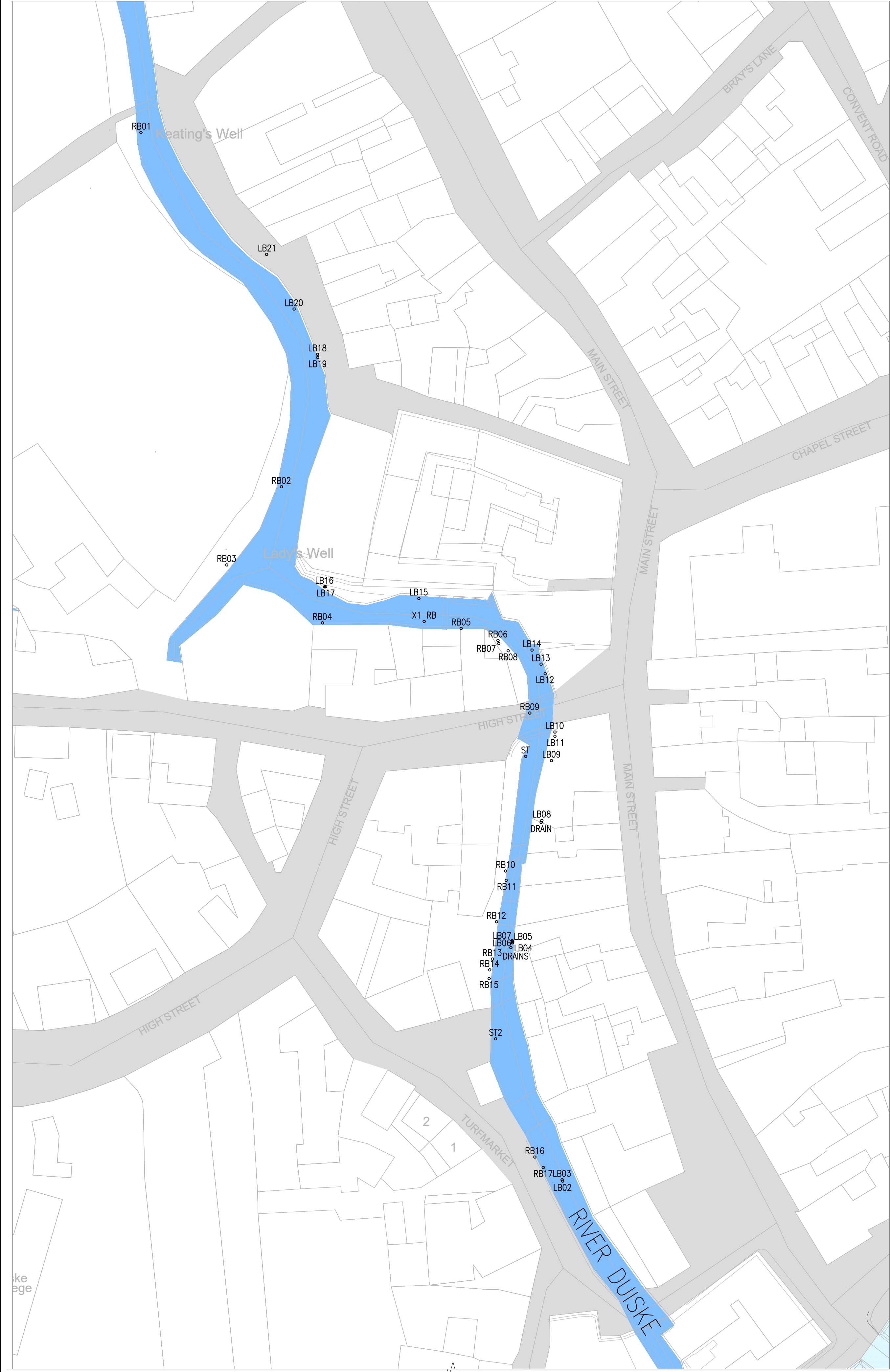
CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING TITLE
OUTFALL WORKS
RIVER BARROW OUTFALLS
SHEET 2

STATUS
FOR PLANNING

Date: 26.07.24	Scale: 1:1000	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Org. No: W3451–AYE–DWG–W–1439	00		



GRAIGUENAMANAGH OUTFALLS – RIVER DUISKE

OUTFALL No:	OUTFALL REF:	Easting (ITM)	Northing (ITM)	OUTFALL Ømm (ID)	COMMENT
01	RB01	670755.0000	643912.0000	275	NRV TO BE FITTED
02	RB02	670783.0000	643841.0000	100	NRV TO BE FITTED
03	RB03	670772.0000	643825.0000	600x300	NRV TO BE FITTED
04	RB04	670791.0000	643813.0000	100	EXTEND PIPE BY 1m, STRAP TO WALL & FIT INLINE DOWNSTREAM CLAMP NRV
05	RB05	670819.0000	643813.0000	110	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
06	RB06	670826.0000	643810.0000	50	NRV TO BE FITTED
07	RB07	670827.0000	643809.0000	100	UE CONNECTION. REPAIR PIPE & INCLUDE ACCESS TRAP
08	RB08	670828.0000	643808.0000	225	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
09	RB09	670833.0000	643795.0000	225	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
10	RB10	670828.0000	643764.0000	500x300	NRV TO BE FITTED
11	RB11	670828.0000	643762.0000	65	
12	RB12	670826.0000	643754.0000	65	
13	RB13	670825.0000	643746.0000	225	NRV TO BE FITTED
14	RB14	670825.0000	643744.0000	100	NRV TO BE FITTED
15	RB15A	670824.0000	643741.0000	100	NRV TO BE FITTED
16	RB15B	670824.0000	643741.0000	100	NRV TO BE FITTED
17	RB16	670834.0000	643706.0000	100	NRV TO BE FITTED
18	RB17	670836.0000	643704.0000	250	NRV TO BE FITTED
19	RB18	670837.0000	643634.0000	225	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
20	LB02	670839.0000	643702.0000	100	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
21	LB03	670839.0000	643702.0000	65	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
22	LB04	670829.0000	643749.0000	100	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
23	LB05	670829.0000	643749.0000	100	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
24	LB06	670829.0000	643749.0000	50	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
25	LB07	670835.0000	643774.0000	100	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
26	LB08	670835.0000	643774.0000	40	CONNECT WASTE PIPE TO LARGER PIPE AND PLACE NRV ON LARGER PIPE IN NEW WALL
27	LB09	670837.0000	643786.0000	100	
28	LB10	670838.0000	643792.0000	100	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
29	LB11	670838.0000	643791.0000	100	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
30	LB12	670836.0000	643803.0000	375	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
31	LB13	670835.0000	643805.0000	125	NRV TO BE FITTED
32	LB14	670833.0000	643808.0000	100	PIPE REPAIRS, NRV TO BE FITTED
33	LB15	670810.0000	643818.0000	150	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
34	LB16	670791.0000	643821.0000	200	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
35	LB17	670791.0000	643821.0000	200	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
36	LB18	670790.0000	643868.0000	100	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED
37	LB19	670790.0000	643867.0000	150	NRV TO BE FITTED
38	LB20	670785.0000	643877.0000	150	NRV TO BE FITTED
39	LB21	670780.0000	643888.0000	150	INLINE DOWNSTREAM CLAMP NRV TO BE FITTED



GENERAL NOTES



NOTES:

1. CYAL50338216 © NATIONAL MAPPING DIVISION OF TALTE EIREANN.

LEGEND:

NRV – NON RETURN VALVE

RB/LBxx

00	26.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App



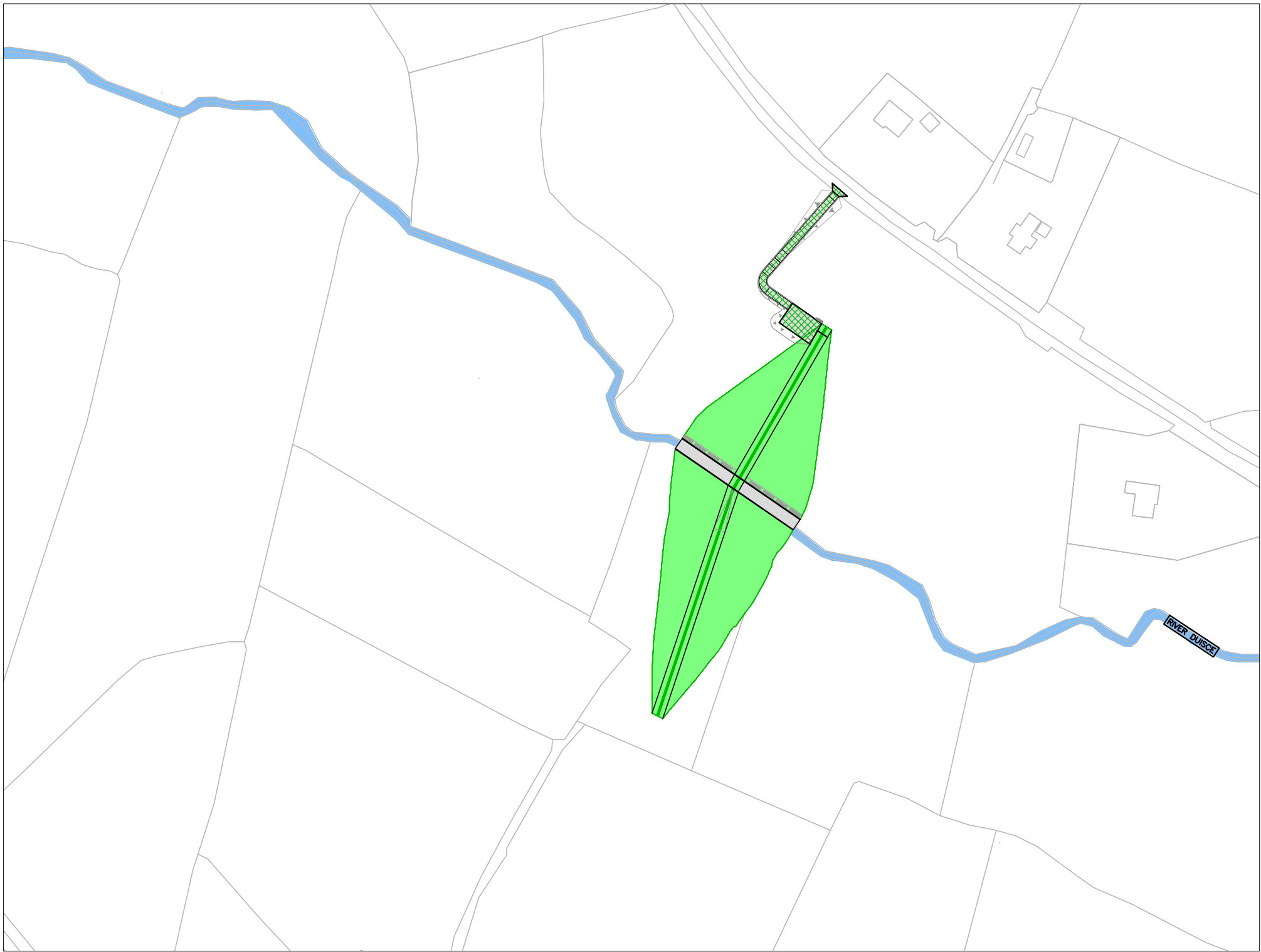
CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

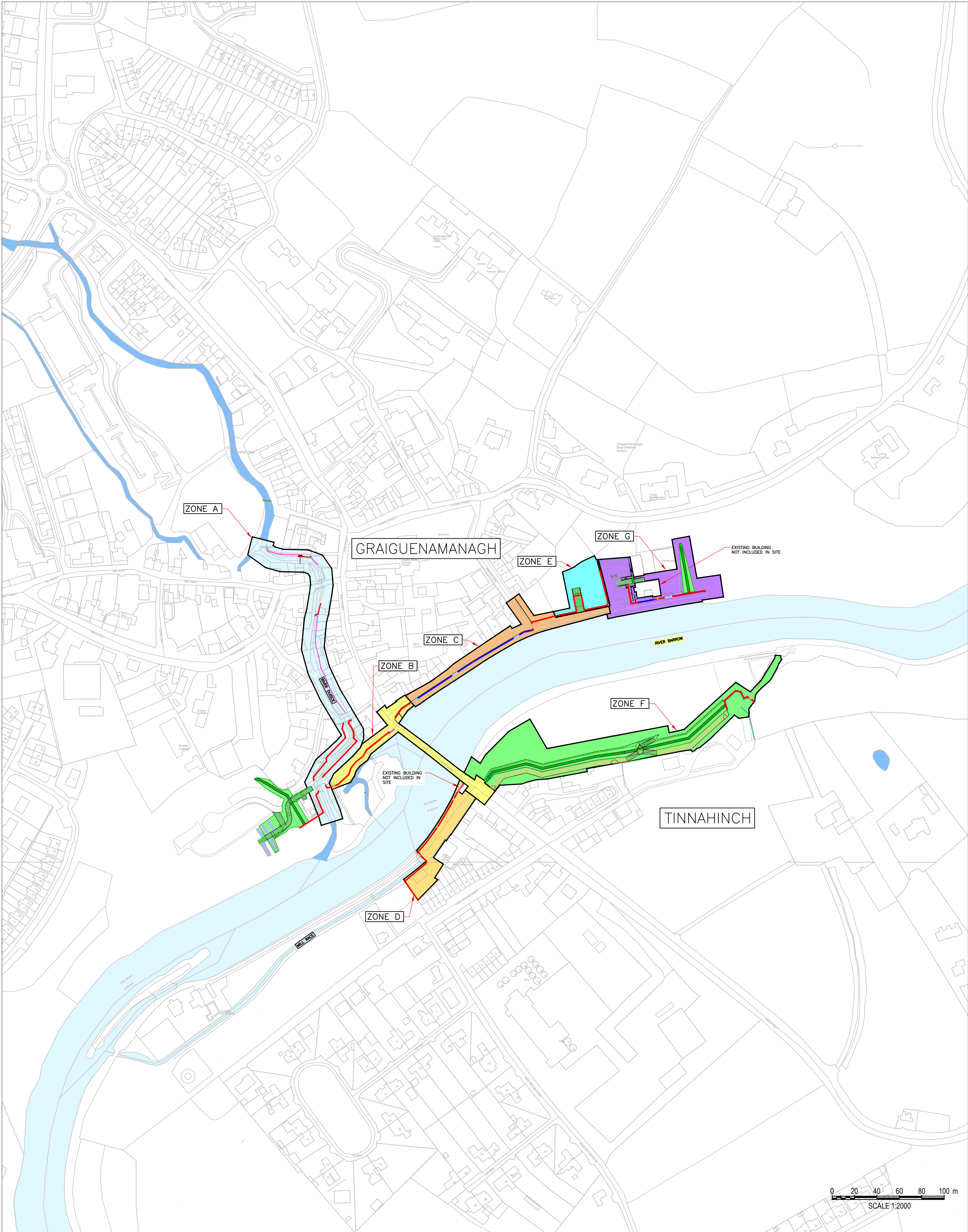
DRAWING TITLE
OUTFALL WORKS
RIVER DUISKE OUTFALLS

STATUS
FOR PLANNING

Date: 26.07.24	Scale: 1:1000	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Dwg. No: W3451–AYE–DWG–W–1440	Rev: 00		



GRAIGUENAMANAGH–TINNAHINCH FRS – CONSERVATION STRATEGY		
ZONE TITLE	ZONE LOCATION	KEY STRATEGIES
A	RIVER DUISKE CONSERVATION ZONE	FLOOD RELIEF WORKS TO PROTECT BUILDINGS ARE CARRIED OUT WITHIN AN HISTORIC URBAN RIVERSIDE LANDSCAPE WITH MINIMUM INTERVENTION & FLOOD WALLS ARE CLAD IN RUBBLE LIMESTONE MASONRY INTEGRATING WITH THE CHARACTER OF THE HISTORIC LANDSCAPE
B	GRAIGUENAMANAGH BRIDGE CONSERVATION ZONE	NO WORKS ARE REQUIRED TO THE BRIDGE BUT ADJOINING WORKS ARE CARRIED OUT TO RETAIN THE SIGNIFICANCE OF THE BRIDGE
C	GRAIGUENAMANAGH QUAY PUBLIC REALM ZONE	AN INTERVENTION APPROACH TO THE QUAY WALLS GLAZED PANELS & PUBLIC REALM IS PROPOSED, LED BY THE LANDSCAPE ARCHITECT
D	TINNAHINCH QUAY PUBLIC REALM ZONE	THE HISTORIC QUAY WALL & RIVER ACCESS ARE MAINTAINED IN THEIR ORIGINAL STATE WITH NEW WALLS DESIGNED TO BE MUTE WITHIN AN HISTORIC NATIVE LANDSCAPE
E	GLAMPING SITE CONSERVATION ZONE	EXISTING DWARF WALLS, GATES ARE TO BE CONSERVED & NEW FLOOD WALLS IN RANDOM RUBBLE REFLECT THE HISTORIC CHARACTER
F	TINNAHINCH LANDSCAPE WEST ZONE	NO IMPACT IS EXPECTED IN BUILT HERITAGE
G	BOATCLUB CHARACTER ZONE	FLOOD WALLS IN THIS AREA IN RANDOM RUBBLE MASONRY, MAINTAINING SIGNIFICANCE OF THE BOAT CLUB



SITE EXTENT PLAN
SCALE: 1:2000

GENERAL NOTES



NOTES:

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2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
3. ALL LEVELS ARE IN METRES AND RELATE TO MALIN HEAD ORDNANCE DATUM.
4. TAKEN FROM OS MAPS No. 5016-A, 5016-B, 5016-C & 5016-D.
5. FOR DETAILS OF FLOOD DEFENCES SEE DWGS 1404-1423.

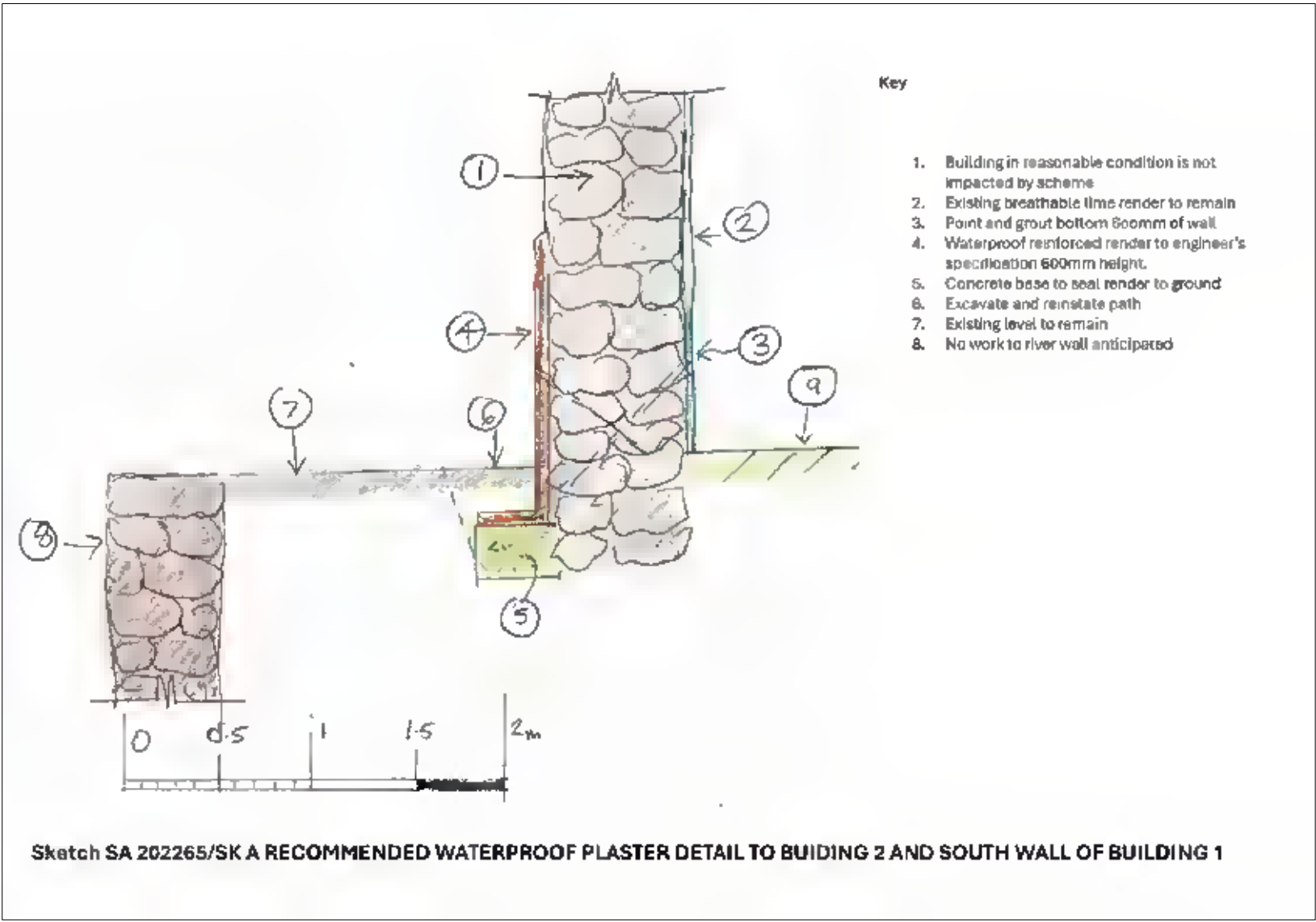
LEGEND:

CONSERVATION ZONE A	
CONSERVATION ZONE B	
CONSERVATION ZONE C	
CONSERVATION ZONE D	
CONSERVATION ZONE E	
CONSERVATION ZONE F	
CONSERVATION ZONE G	

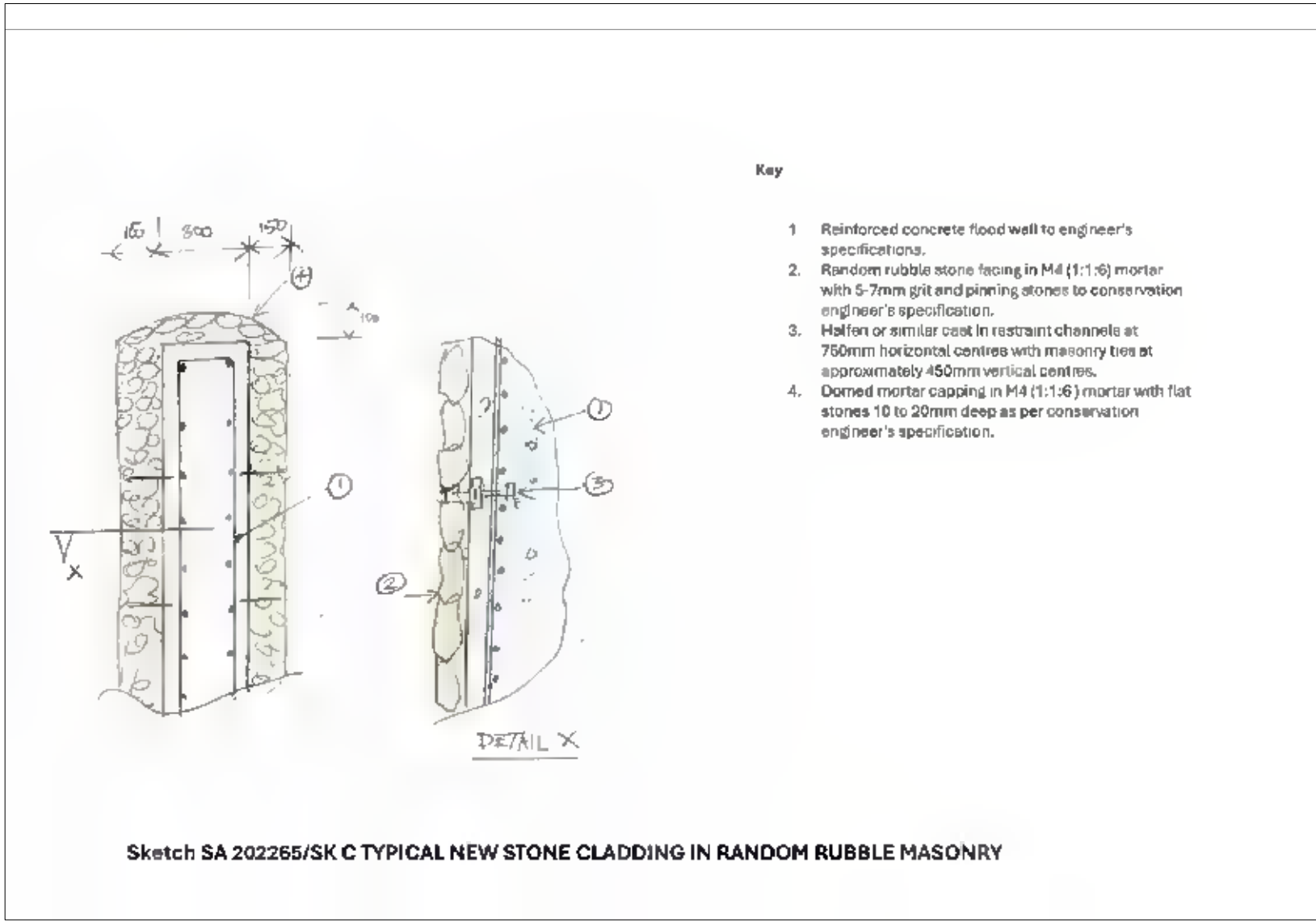
02	04.03.25	ISSUE FOR PLANNING	LT	SH	SH
01	18.11.24	ISSUE FOR PLANNING	LT	SH	SH
00	23.09.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App



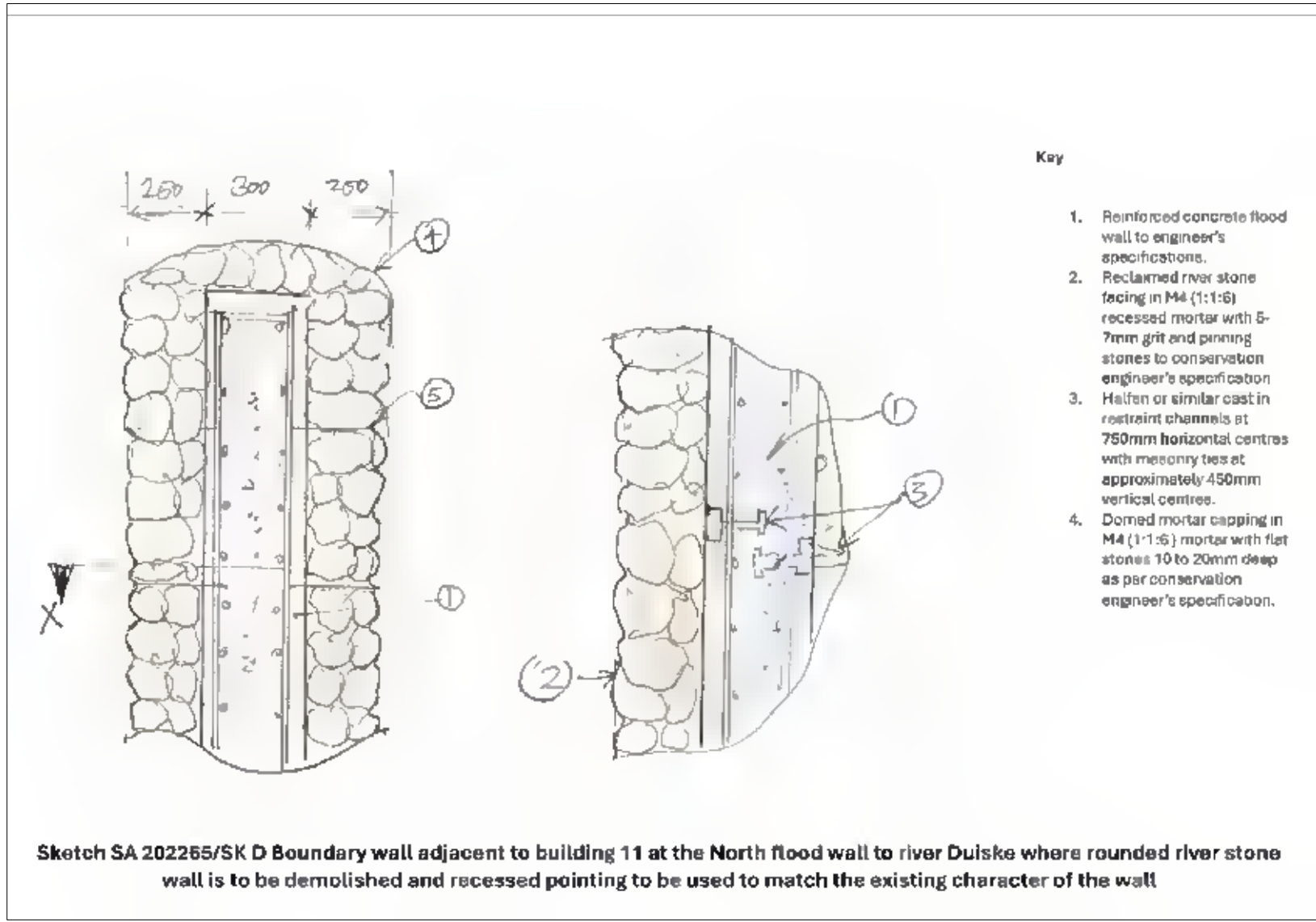
CLIENT KILKENNY COUNTY COUNCIL					
PROJECT GRAIGUENAMANAGH TINNAHINCH FLOOD RELIEF SCHEME					
DRAWING TITLE CONSERVATION STRATEGY OVERALL SITE LAYOUT					
STATUS FOR PLANNING					
Date:23.09.24	Scale:1:2000	Drawn:LT	Chk: SH	App:SH	
Project No:	Drg. No:	Rev:			
W3451	W3451-AYE-DWG-W-1441	02			



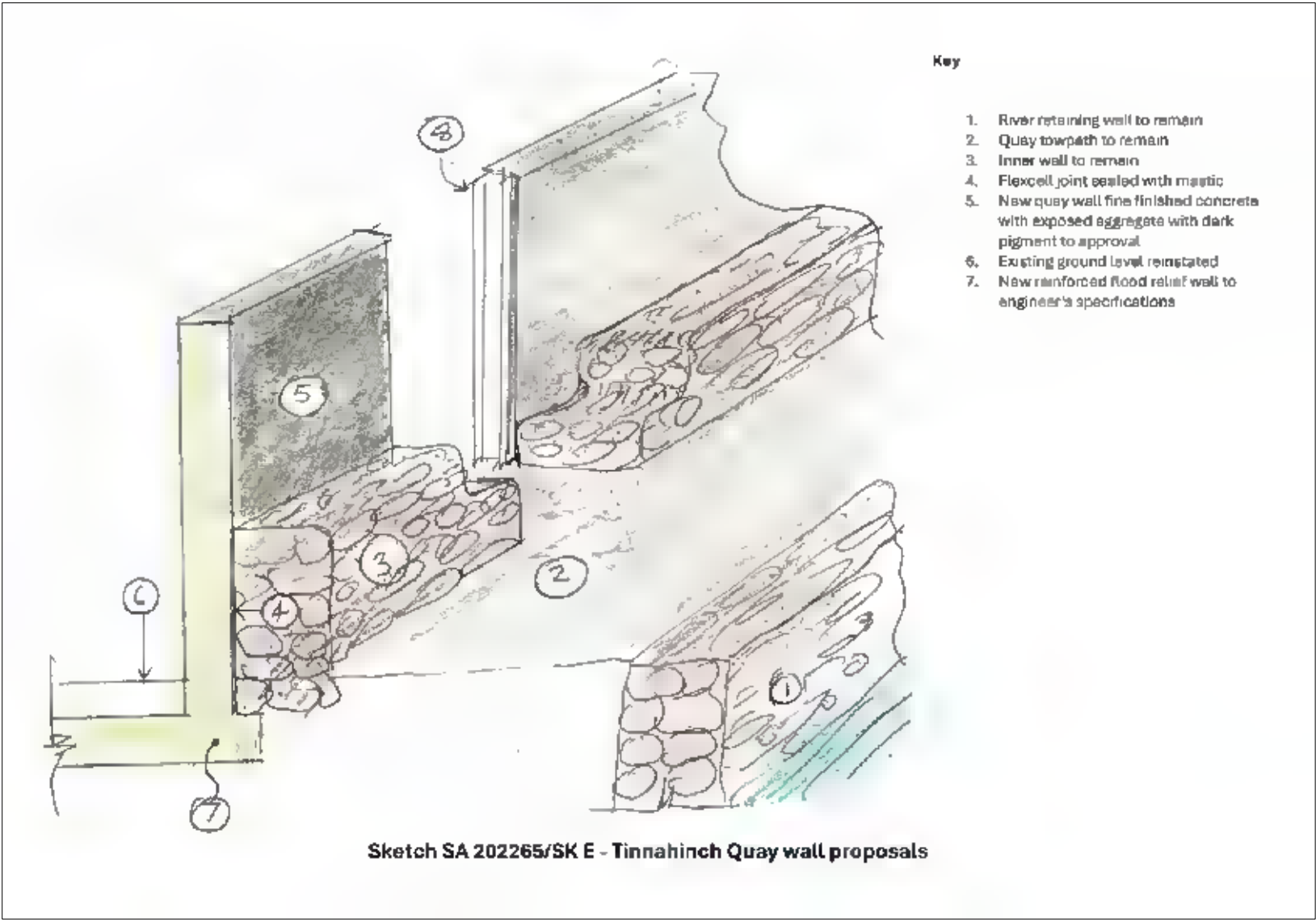
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SCALE: NTS



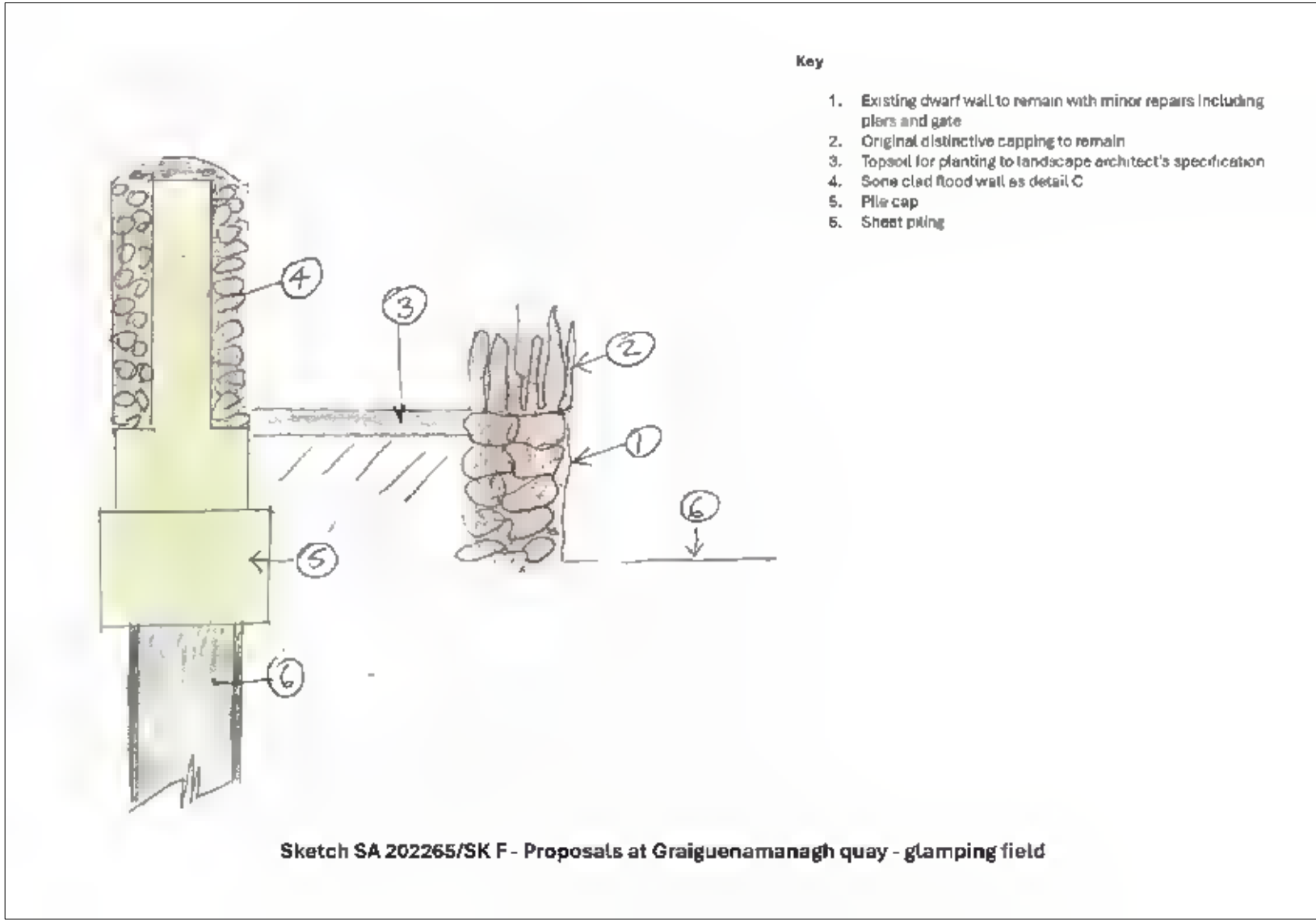
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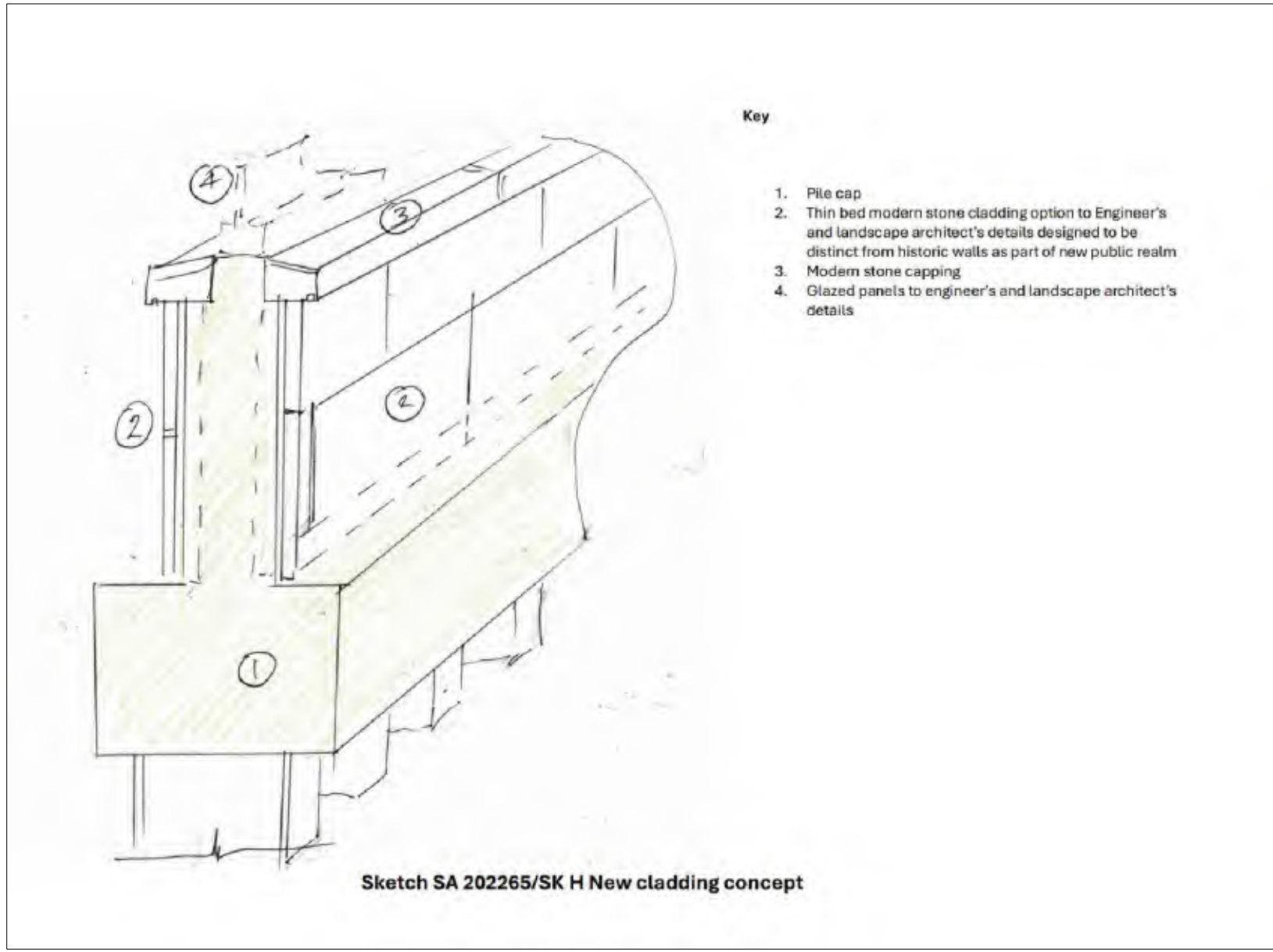
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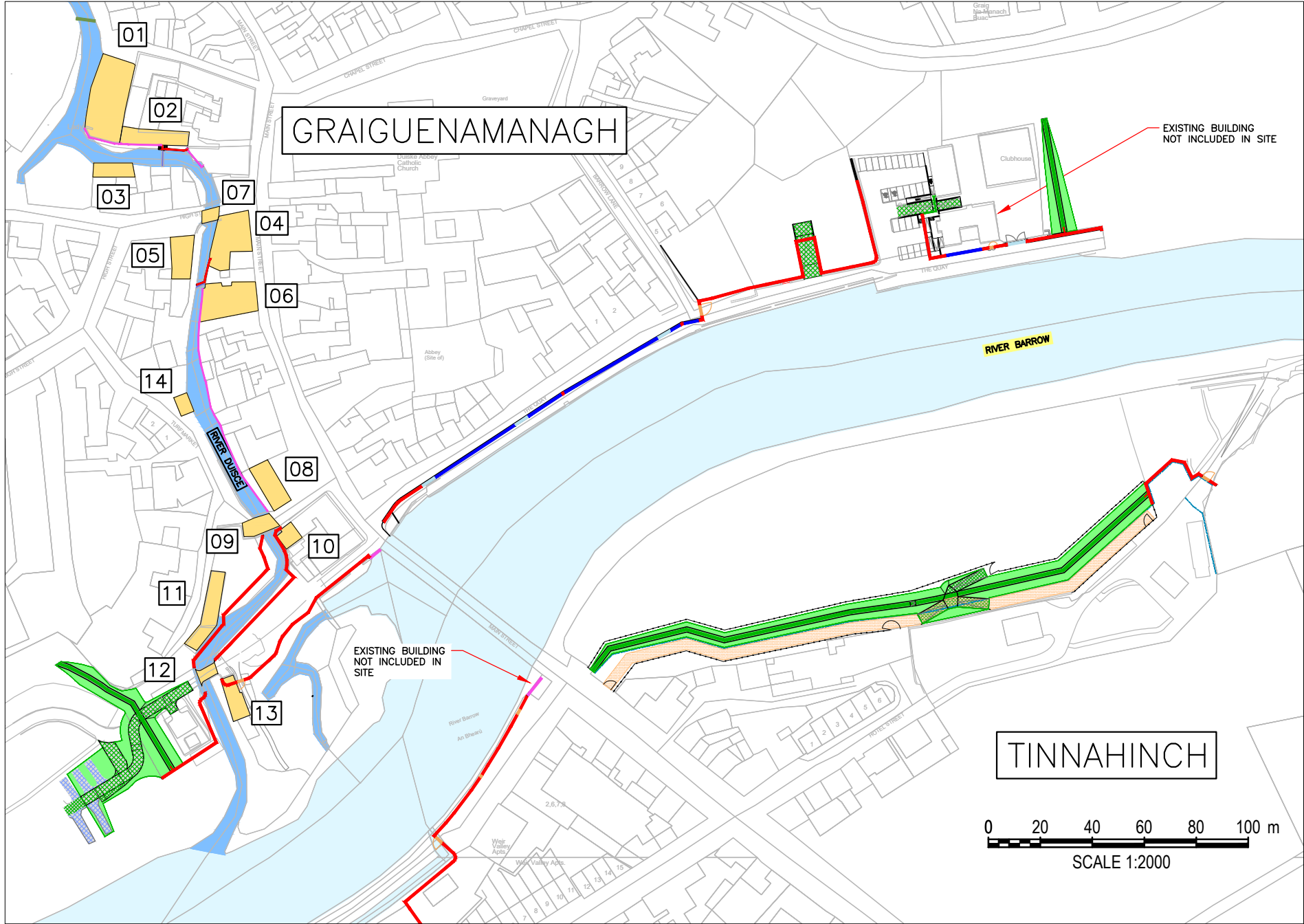
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SCALE: NTS



SKETCH F
SCALE: NTS

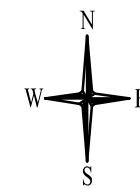


SKETCH H
SCALE: NTS



SITE EXTENT PLAN
SCALE: 1:2000

GENERAL NOTES



NOTES:

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4. TAKEN FROM OS MAPS No. 5016-A, 5016-B, 5016-C & 5016-D.
5. FOR DETAILS OF FLOOD DEFENCES SEE DWGS 1404-1423.

LEGEND:

CONSERVATION INVESTIGATION AREA



02	04.03.25	ISSUE FOR PLANNING	LT	SH	SH
01	18.11.24	ISSUE FOR PLANNING	LT	SH	SH
00	23.09.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App

ayesa

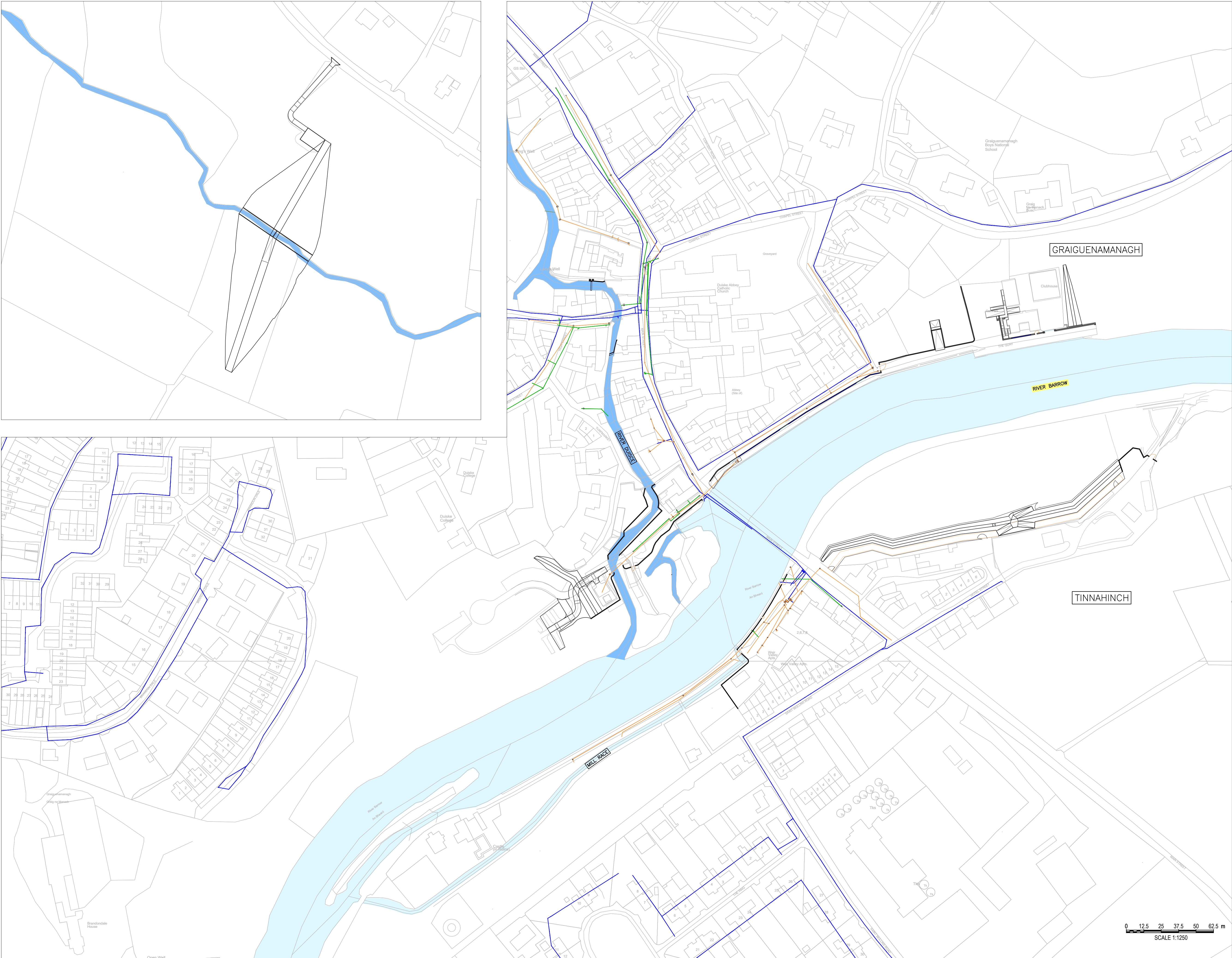
CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING
TITLE
CONSERVATION STRATEGY
WALL DETAILS

STATUS
FOR PLANNING

Date:23.09.24	Scale: AS SHOWN	Drawn:LT	Chk: SH	App:SH
Project No:	Drg. No:			Rev:
W3451	W3451-AYE-DWG-W-1442			02



SITE PLAN
SCALE: 1:2000

GENERAL NOTES



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4. TAKEN FROM OS MAPS No. 5016-A, 5016-B, 5016-C & 5016-D.
5. FOR DETAILS OF FLOOD DEFENCES SEE DWGS 1404-1423

LEGEND:

- EXISTING FOUL SEWER —
- EXISTING STORM DRAINAGE —
- EXISTING WATER MAIN —

02	04.03.25	ISSUE FOR PLANNING	LT	SH	SH
01	21.10.24	ISSUE FOR PLANNING	LT	SH	SH
00	31.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App



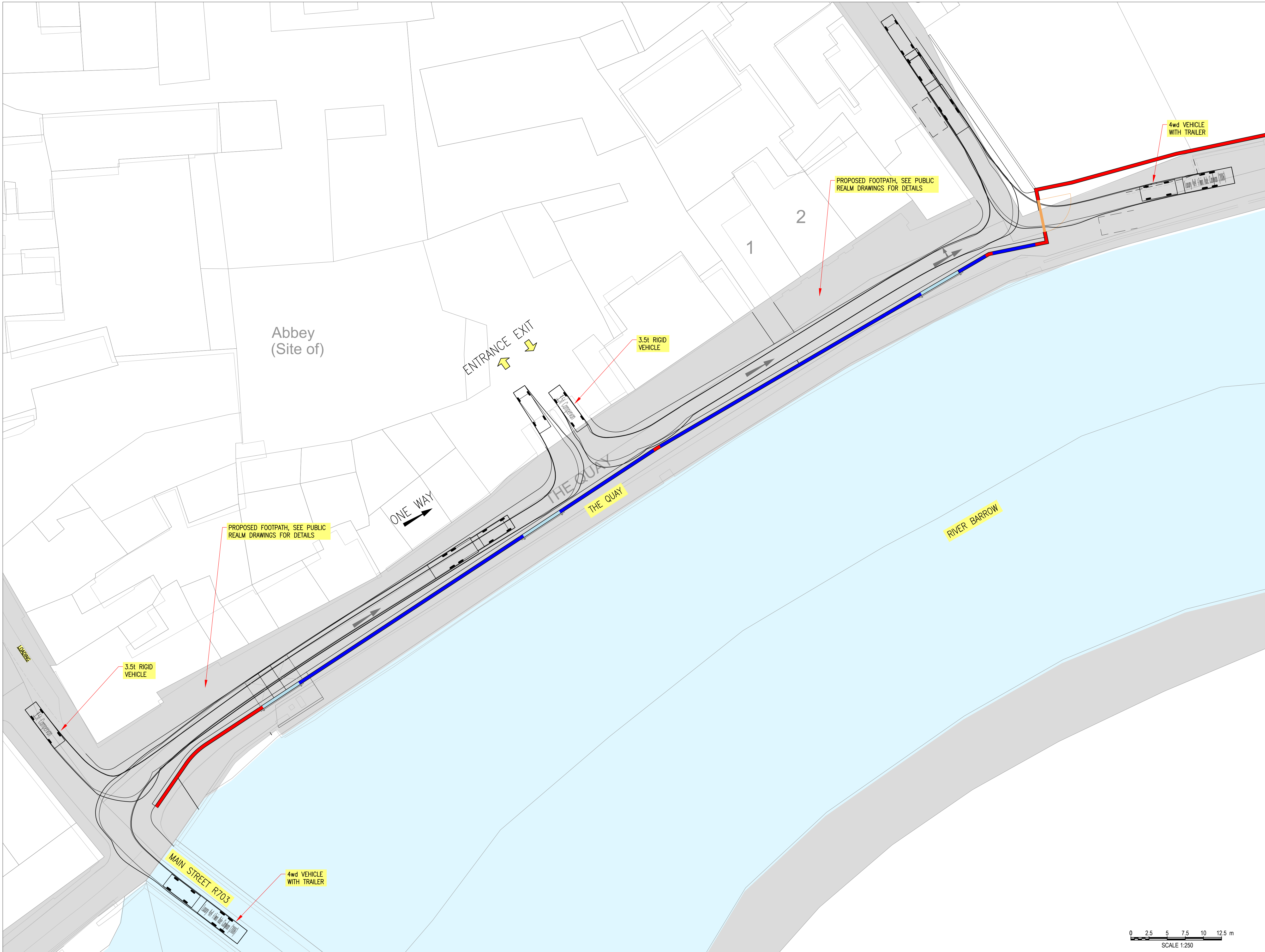
CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING
TITLE
SITE WORKS
UE WATER DIVERSIONS LAYOUT

STATUS
FOR PLANNING

Date: 31.07.24	Scale: 1:1250	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Drg. No: W3451-AYE-DWG-W-1443	Rev: 02		



SITE PLAN
SCALE: 1:250

GENERAL NOTES



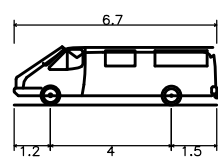
NOTES:

1. CYAL50338216 © NATIONAL MAPPING DIVISION OF TAILTE EIREANN.
2. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
3. LONG SECTIONS ARE DEVELOPED SECTIONS FROM THE DIRECTION SHOWN.
4. DESIGN FLOOD LEVEL SHOWN FOR INFO ONLY, AND APPLIES TO WET SIDE ONLY.
5. FREEBOARD:
HARD DEFENCES: 350mm
SOFT DEFENCES: 550mm
6. HEIGHT REFERRED TO ARE FROM CENTRELINE OF CREST OF EMBANKMENT/WALL.
7. FOR FLOOD DEFENCES IDENTIFIER LABELS REFER TO DRAWING W3451-AYE-DWG-W-4025.
8. FOR CONSERVATION STRATEGY WALL FINISHES REFER TO SKETCHES F & H, DRAWING W3451-AYE-DWG-W-1442.

LEGEND:

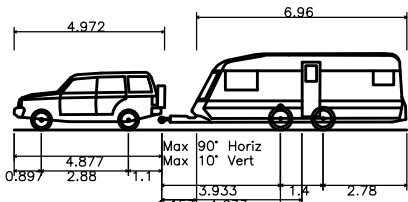
EXISTING GROUND LEVEL	
DESIGN FLOOD LEVEL	
UPGRADE EXISTING WALL	
NEW FLOOD DEFENCE WALL	
GLASS WALL FLOOD DEFENCE	
NEW FLOOD GATES	
NEW SLIDING FLOOD GATES	

VEHICLE:



3.5t Campervan	6.700m
Overall Length	2.28m
Overall Width	2.13m
Overall Body Height	0.30m
Min Body Ground Clearance	1.75m
Max Track Width	4.00s
Lock-to-lock time	5.700m
Curb to curb turning Radius	

3.5t RIGID VEHICLE



Luxury 4x4 +Twin Axle Caravan (2006)	12.390m
Overall Length	2.28m
Overall Width	2.13m
Overall Body Height	0.30m
Min Body Ground Clearance	1.75m
Max Track Width	4.00s
Lock-to-lock time	5.700m
Curb to curb turning Radius	

4wd VEHICLE WITH TRAILER



KEYPLAN:

00	31.07.24	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App



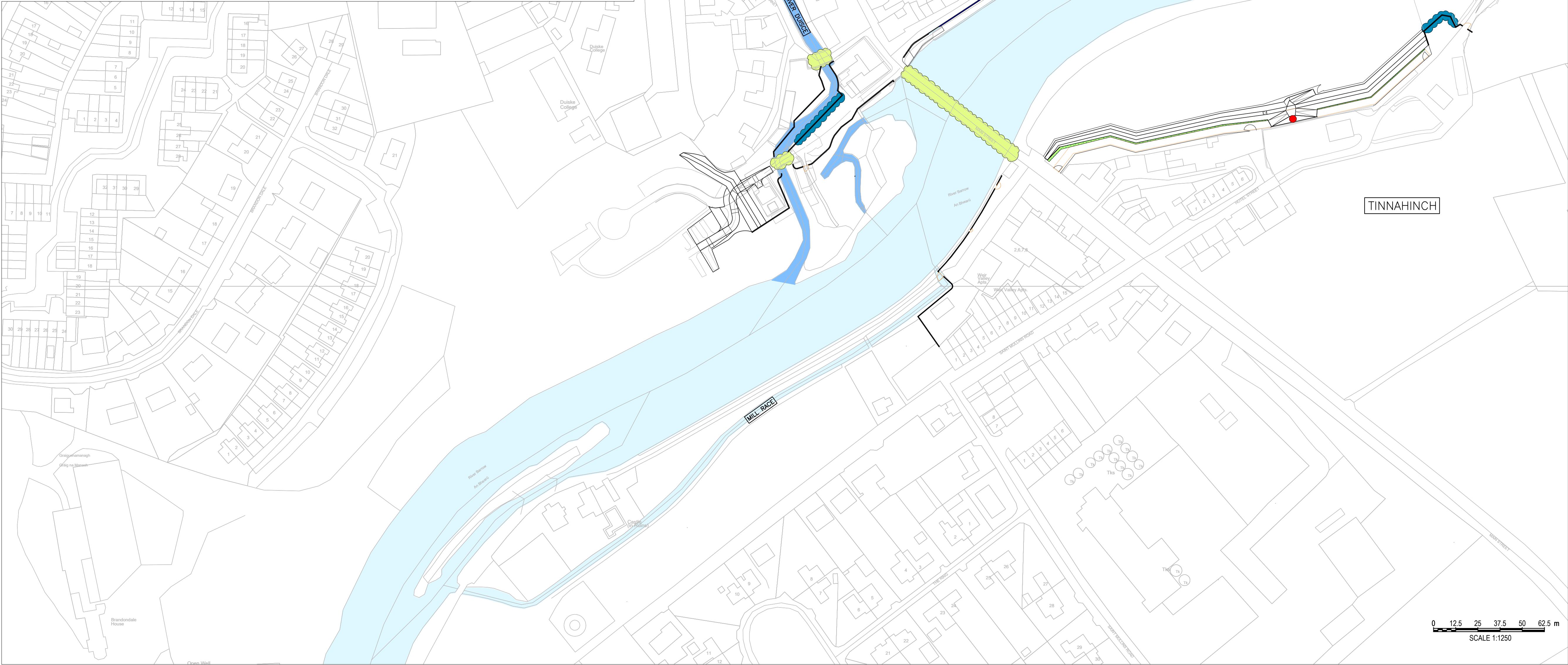
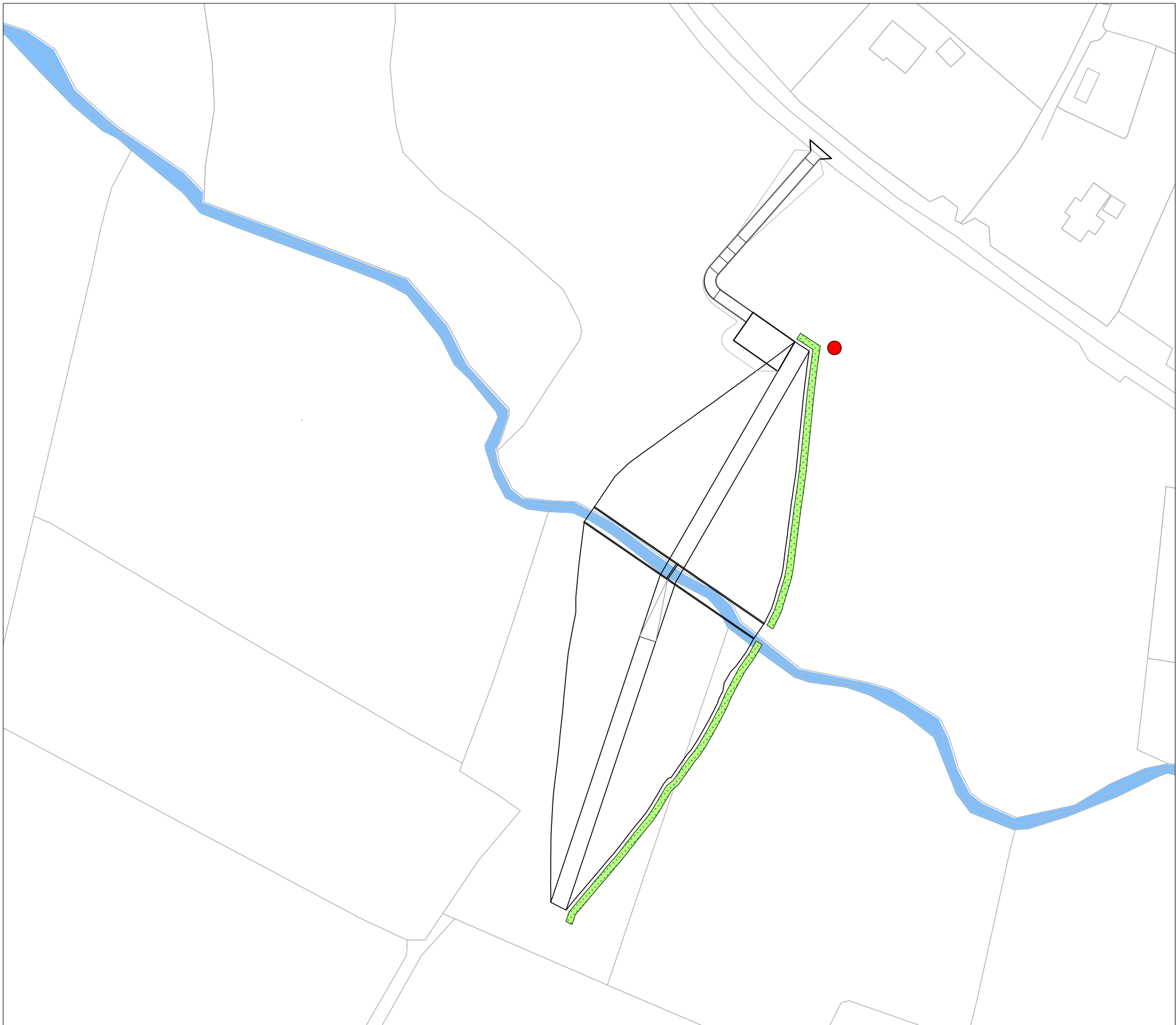
CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING TITLE
SITE WORKS
AUTOTRACKING LAYOUT

STATUS
FOR PLANNING

Date: 14.10.24	Scale: 1:250	Drawn: LT	Chk: SH	App: SH
Project No: W3451	Drg. No: W3451-AYE-DWG-W-1444	Rev:		



SITE PLAN
SCALE: 1:2000

GENERAL NOTES

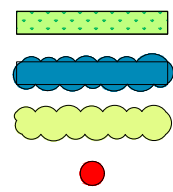


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4. TAKEN FROM OS MAPS No. 5016-A, 5016-B, 5016-C & 5016-D.
5. FOR DETAILS OF FLOOD DEFENCES SEE DWGS 1404-1423
6. FOR DETAILS OF BIODIVERSITY ENHANCEMENT MEASURES SEE EIA DOCUMENT, VOLUME II, CHAPTER 10, 'BIODIVERSITY ENHANCEMENT MEASURES GRAIGUENAMANAGH'.

LEGEND:

- PROPOSED DRY MEADOWS
PROPOSED ROOSTING HABITAT
PROPOSED BAT BOXES
PROPOSED BEE SCRAPES



00	04.03.25	ISSUE FOR PLANNING	LT	SH	SH
Rev	Date	Description	By	Chk	App

ayesa

CLIENT
KILKENNY COUNTY COUNCIL

PROJECT
GRAIGUENAMANAGH TINNAHINCH
FLOOD RELIEF SCHEME

DRAWING
TITLE
SITE WORKS
BIODIVERSITY ENHANCEMENT MEASURES

STATUS
FOR PLANNING

Date:04.03.25	Scale:1:1250	Drawn:LT	Chk: SH	App:SH
Project No:	Drg. No:	Rev:		
W3451	W3451-AYE-DWG-W-1445	00		