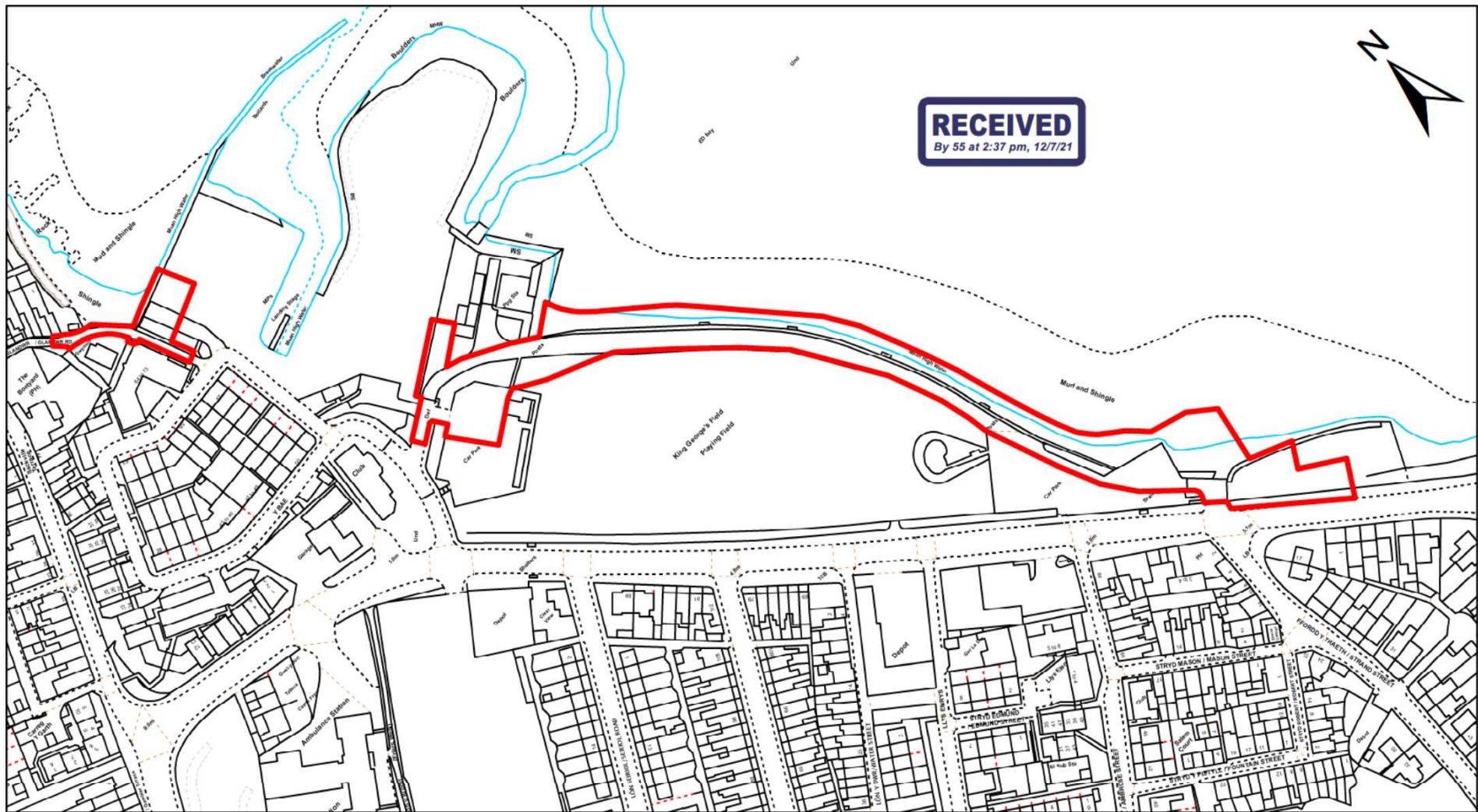




Teitl y Proiect/ Project Title

Hirael Flood Alleviation Scheme

YGC Project number 7720

Teitl y Cynllun/ Drawing Title

Red line site boundary

Seilwyd ar fap yr Arolwg Ordnans gyda chaniatâd. Rheolwr Gwasg ei Mawrhydi.
© Cedwir Hawffraint y Goron. Mae atgynrychu heb awdurdod yn torri hawffraint
Goron a gall arwain at erlyniad neu achos sifil.

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Cyngor Gwynedd - 100023387 - 2019



Darlunwyd Gan:
Drawn By: MCW

Dyddiad Darlunwyd:
Date Drawn: 17/11/2021

Gwiriwyd Gan:
Checked By: EG

Dyddiad Gwiriwyd:
Date Checked: 18/11/2021

Tafel:
Sheet: 1 of 1

Graddfeydd:
Scales: 1:2,000

Rhif Lluniad:
Drawing No: 7720/RLB/1.0

Cywil:
Rev: 1.0

Allwedd/ Key

Red line
boundary

**Total surface area:
8404 Sq m**

0 25 50
Meters



60664880-ACM-XX-XX-DR-C-0201

EXISTING MASONRY GARDEN WALL

0.90

2% SLOPE

75mm DRAINING

TYPE 1 SUBGRADE

NEW PRECAST MODULAR WALL

GRANULAR MATERIAL

0.15

0.40

2.87

3.73

0.30

5.7m AOD

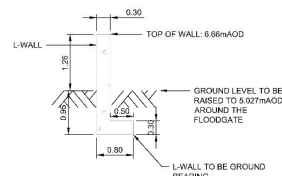
NEW IN SITU RC WALL TO BE DOWELED INTO EXISTING WALL RC WALL

BEACH LEVEL

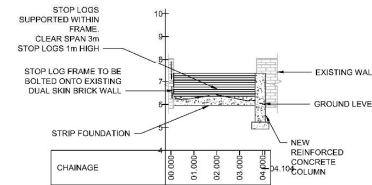
NEW WALL DOWELED INTO EXISTING WALL

EXISTING RC WALL

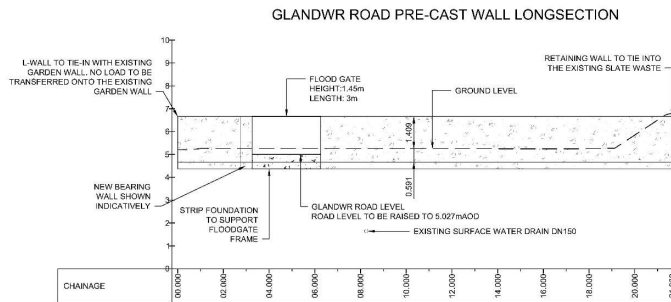
Scale 1:50



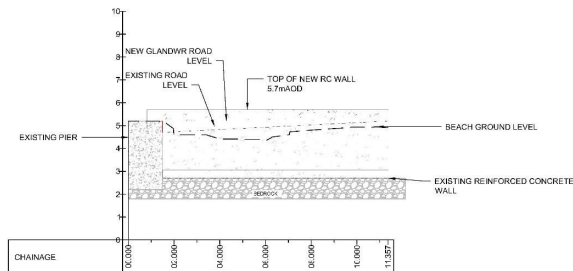
Scale 1:50



Scale 1:100



Scale 1:100



Scale 1:100

60664880-ACM-XX-XX-DR-C-0202

[illegible]

PROJECT
HIRAEI BAY FLOOD
ALLEVIATION SCHEME

CONSULTANT

1. DO NOT SCALE FROM THIS DRAWING
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THIS DRAWING CONTAINS ORIGINALLY
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4. INFORMATION IS RELIANT ON DATA FROM
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5. SERVICE INFORMATION IS BASED ON A C2
CABLE ROUTE UNDERSTANDING OF THE
2020. INFORMATION CONCERNING THE
LOCATION OF THE UTILITIES APPARATUS IS
BASED ON A GENERAL RECORD OF THE
AND NO WARRANTIES AS TO THEIR
CORRECTNESS IS GIVEN OR IMPLIED. THE
DRAWER SHALL NOT BE RESPONSIBLE FOR
IN THE EVENT OF CABLE OR OTHER
UTILITIES BEING NEAR TO OR UNDER
APPARATUS MAY VARY IN DEPTH AND
DEVIATE FROM THE MARKED ROUTE. A LINE
OR POINT INDICATES THE LOCATION OF
OF MORE THAN ONE CABLE. DUCT OR PIPE
GPS SURVEYS AND UPDATED SERVICES
AND THE LOCATION SHOULD BE
PRIOR TO THE COMMENCEMENT OF ANY
WORK.
6. THE DESIGN LEVELS SHOWN IN THIS
DRAWING ARE BASED ON THE HIRSELAY
MAPS AND THE DESIGN LEVELS ARE BASED
TECHNICAL NOTE APPENDIX B. A
DESIGN LEVEL OF 100MM ABOVE THE
DESIGN WATER LEVEL OF 300mm IS INCLUDED FOR
DRAWS AND SHEET PILE.
7. THE INFORMATION CONTAINED IN THIS
DRAWING IS FOR
CONSULTATION PURPOSES ONLY AND IS NOT TO BE USED
FOR CONSTRUCTION.
8. THE INFORMATION TO BE
BE CONFIRMED SUITABLE TO FURTHER
GROUND INVESTIGATION DATA.
9. THE INFORMATION IS NOT FINAL
AND SHOULD BE CONFIRMED DURING
DETAILED DESIGN.
10. THE INFORMATION TO BE CONFIRMED
DURING DETAILED DESIGN.
11. THE INFORMATION TO BE CONFIRMED
TO DRAWING 05548-00-ACM-XX-DR-C204.



(FOR INFORMATION ONLY)

ISSUE/REVISION		
P01	12/11/2021	FIRST REVISION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60664880

SHEET TITLE

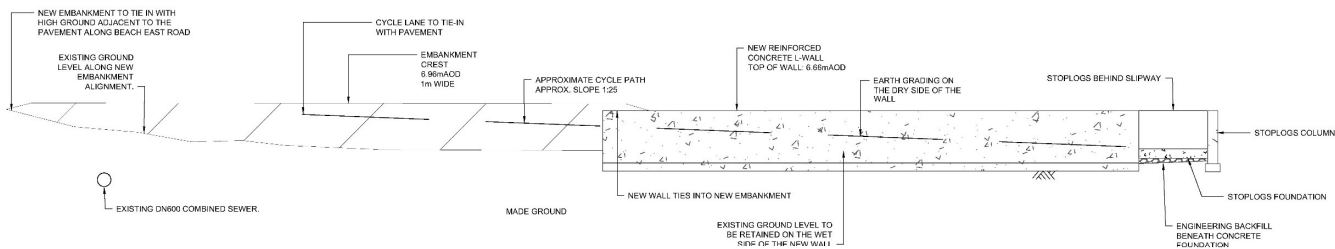
BEACH ROAD EAST
DESIGN OVERVIEW PLAN
FOR PLANNING

SHEET NUMBER

60664880-ACM-XX-XX-DR-C-0203



LONGSECTION B
Scale 1:100



PROPOSED GROUND LEVEL TO TIE INTO EXISTING PAVEMENT

2.6m WIDE CYCLE PATH

EXISTING GROUND LEVEL

MAX. SLOPE 1:3

EMBANKMENT CREST 6.95m AOD WIDTH: 1m

REINFORCED CONCRETE I-WALL TO BE EMBEDDED IN THE EMBANKMENT.

PEDESTRIAN ACCESS ONTO EXISTING FIELD. MAX. SLOPE 1:4

EMBANKMENT TO TIE IN WITH EXISTING GROUND LEVELS

EXISTING DN600 COMBINED SEWER

CHAINAGE

01+000 02+000 04+000 06+000 08+000 10+000 12+000 14+000 16+000 18+000 20+000 22+000

SECTION C
Scale 1:100

AECOM

PROJECT

HIRAEAL BAY FLOOD
ALLEVIATION SCHEME

CLIENT

CYGNOR GWYNEDD COUNCIL
Council Offices, Shirehall Street, Caernarfon
LL55 1SH

CONSULTANT

AECOM
2 City Walk,
Leeds, LS11 9AR
+44(0)-113-301-8400 tel.
www.aecom.com

NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE IN METRES UNLESS
OTHERWISE SPECIFIED. DIMENSIONS ARE
AS IN RAHD.
3. INFORMATION IS RELIANT ON DATA FROM
THE UTILITY RECORDS AS CARRIED OUT IN
2020.
4. ALL INFORMATION IS BASED ON A C2
STANDARD SURVEY UNDERTAKEN IN FEBRUARY
2020.
5. THE LOCATION OF THE UTILITIES APPARATUS IS
PROVIDED AS A GENERAL GUIDE ONLY AND
DOES NOT GUARANTEE AS TO THE
CORRECTNESS IS GIVEN OR IMPLIED. THE
OWNER SHOULD NOT RELY ON THE DATA
IN THE EVENT EXCAVATION OR OTHER
WORKS DEEPLY NEAR TO THE APPARATUS
ARE REQUIRED. ANY DAMAGE TO THE
APPARATUS MAY CAUSE IT TO MALFUNCTION
DEVIATE FROM THE MARKED ROUTE. A LINE
MARKER MAY BE USED TO MARK THE ROUTE
OF MORE THAN ONE CABLE, DUCT OR PIPE.
6. THE DESIGN AND METHOD OF THE
SEARCHES SHOULD BE UNDERTAKEN
PRIOR TO THE COMMENCEMENT OF ANY
WORKS TO THE UTILITY WORKS.
7. THE DESIGN LEVELS SHOWN IN THIS
DRAWING ARE BASED ON THE 1985 AD
SEA OVERTOPPING AND FLOOD MODELING
TECHNICAL NOTE APPENDIX A.
8. THE DESIGN ALLOWANCE FOR THE DESIGN
WATER LEVEL OF 300mm IS INCLUDED FOR
THE STREET PAVEMENT.
9. THE INFORMATION CONTAINED IN THIS
DRAWING IS FOR
CONSTRUCTION PURPOSES ONLY AND IS NOT TO BE USED
FOR ANY OTHER FUNCTION.
10. DESIGN CONSTRUCTION TO BE
BASED ON THE UTILITY RECORDS AND
GROUND INVESTIGATION DATA.
11. THESE ARRANGEMENTS ARE NOT FINAL
AND WILL BE SUBJECT TO A MORE
DETAILED DESIGN.
12. THE DESIGN IS DESIGNED TO BE CONFIRMED
DURING DETAILED DESIGN.
13. FOR PLAN VIEW REFER TO DRAWING
RAHD/2020-XX-XX-XX-XX-XX-XX-XX-XX-XX-XX



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ISSUE/REVISION		
P01	12/11/2021	FIRST REVISION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

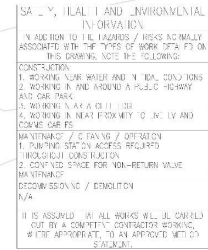
60664880

SHEET TITLE
BEACH ROAD EAST DESIGN
PROFILES AND SECTIONS
FOR PLANNING

SHEET NUMBER

60664880-ACM-XX-XX-DR-C-0204

By 55 at 2:35 pm, 12/7/21



PROJECT
HIRAEI BAY FLOOD
ALLEVIATION SCHEME

CONSULTANT

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Leeds, LS11 9AR
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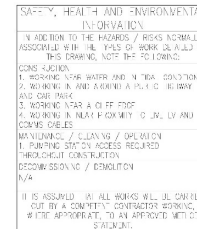
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ARE IN M/30
2. THIS DRAWING CONTAINS ORDINANCE
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SURVEY DATA HAS RIGHTS RESERVED
3. INFORMATION IS RELIANT ON DATA FROM
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2020.
4. INFORMATION IS BASED ON A C2
SURVEY OF THE UNDERGROUND IN FEBRUARY
2020. INFORMATION CONCERNING THE
EXISTENCE OF THE UTILITIES SHOWN IS
PROVIDED AS A GENERAL GUIDE ONLY AND
NO WARRANTIES AS TO THEIR
EXISTENCE IS GIVEN. THEREFORE, THE
DRAWINGS SHOULD NOT BE RELIED UPON
FOR THE EXACT LOCATION OF UTILITIES.
UTILITIES LOCATIONS MAY VARY DUE TO
WORKS MADE NEAR TO THE APPARATUS.
APPARATUS MAY VARY IN DEPTH AND
LOCATION. THE MAINS AND SERVICE LINE
ON A PLAN MAY INDICATE THE PRESENCE
OF UTILITIES. ONE CAN CHECK WITH THE
GPR SURVEYS AND UPDATED SERVICES
SEARCHES SHOULD BE UNDERTAKEN
PRIOR TO ANY COMBINED WITH ANY
CONSTRUCTION WORKS.
5. THE LEVELS SHOWN IN THIS
DRAWING ARE BASED ON THE IRELAND SEA
BED OVERLAPPING AND FLOOD MODELING
DATA. THE APPROXIMATE FLOODING
FREEBOARD ALLOWANCE AROUND DESIGN
WATER LEVEL OF 10m is 1.0m. THE FLOOD
WALLS, 600mm IS INCLUDED FOR
EMBANKMENTS.
6. THE INFORMATION CONTAINED IN THIS
DRAWING IS FOR
CONSTRUCTION PURPOSES ONLY AND IS NOT TO BE USED
FOR CONSTRUCTION.
7. THE INFORMATION TO BE
CONFIRMED SUBJECT TO FURTHER
INVESTIGATION. THESE ARRANGEMENTS ARE NOT FINAL
AND SHOULD BE CONFIRMED DURING
CONSTRUCTION.
8. STRUCTURAL AND DRAINAGE DESIGN TO
BE IN ACCORDANCE WITH THE DESIGN
FOR TYPICAL SECTIONS REFER TO
DRAWING CCB6-001A-XX-XX-XX-DR-C206
OR CCB6-001A-XX-XX-XX-DR-C206

ISSUE/REVISION		
P01	12/12/2021	FIRST REVISION
I/R	DATE	DESCRIPTION

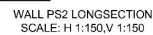
PROJECT NUMBER
60664880

SHEET TITLE
PUMPING STATION
DESIGN OVERVIEW PLAN
FOR PLANNING

SHEET NUMBER
60664880-ACM-XX-XX-DR-C-0205



RECEIVED
By 55 at 2:35 pm, 12/7/21



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HIRAEAL BAY FLOOD
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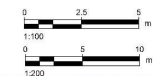
CLIENT

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Council Offices, Shirehall Street, Caernarfon
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5. THE DESIGN LEVELS SHOWN IN THIS DRAWING ARE BASED ON THE HIRSEL BAY COASTAL PROTECTING AND REVEGETATING TECHNICAL NOTE APPENDIX B. A FREEBOARD ALLOWANCE ABOVE DESIGN HIGH WATER OF 500mm IS PROVIDED FOR WALLS. 500mm IS INCLUDED FOR FREEBOARD.
6. THE INFORMATION CONTAINED IN THIS DRAWING IS FOR CONSULTATION CONSTRUCTION PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.
7. THE INFORMATION TO BE CONFIRMED SHOULD BE CONFIRMED SUBJECT TO FURTHER INVESTIGATION AND RESEARCH.
8. THESE ARRANGEMENTS ARE NOT FINAL AND SHOULD BE CONFIRMED DURING DESIGN.
9. STRUCTURAL AND DRAINAGE DESIGN TO BE CONFIRMED DURING DETAILED DESIGN.
10. FOR ALL NEW REFERENCE NUMBERS: 606485-85-XX-XX-DR-025.
11. FOR WALL CROSS SECTIONS REFER TO: 606485-85-XX-XX-DR-027.



(FOR INFORMATION ONLY)

ISSUE/REVISION		
P01	12/11/2021	FIRST REVISION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60664880

SHEET TITLE

PUMPING STATION DESIGN
PROFILES AND SECTIONS
SHEET 1 OF 2 FOR PLANNING

SHEET NUMBER

60664880-ACM-XX-XX-DR-C-0206

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 ISO A1 584mm x 847mm



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 Project Management Initials: Designer: JH Checked: VC Approved: IB
 ISO A1 564mm x 847mm



















