



1:25

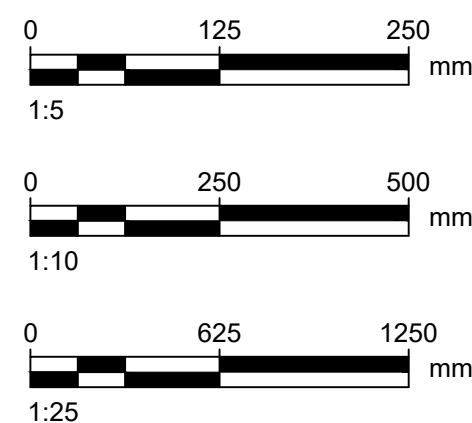


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1:5

PLEASE REFER TO LANG-ACM-ZZ-F1A-DR-ZZ-011101 FOR SHE INFORMATION.



ISO A1 594mm x 841mm
Approved: JScott Drawn: ZC
Checked: CP
Designer: MB
Project Management Initials: Revision: C02
Last saved by: COE2/2025-02-03
Filename: C:\pwworking\aecom\us09_uk_2020\0454975\LANG-ACM-ZZ-F2-DR-ZZ-051204



PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
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www.aecom.com

NOTES

- GENERAL NOTES
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 - DEFENCE LENGTH/EXTENT SHOWN ARE APPROXIMATE. THE EXACT EXTENT OF THE TYPICAL CROSS SECTION IS TO BE CONFIRMED ON SITE WITH THE SUPERVISOR.
 - EXISTING PATH LEVELS VARY ALONGS DEFENCE LENGTH, AND BEACH LEVEL VARY SPATIALLY AND WITH TIME.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER (LANG-ACM-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
 - ALSO REFER TO DRAWINGS:
F2 GENERAL ARRANGEMENT - # 011201
F2 MODEL CROSS SECTIONS - # 031202 & # 031203
F2 TYPICAL DETAILS - # 051204, # 051205 & # 051206
- DRAWING SPECIFIC NOTES
- RISK OF DAMAGE TO EXISTING SERVICES DUE TO GROUND MOVEMENTS INDUCED BY EXCAVATION. CONTRACTOR WOULD NEED TO MAKE NECESSARY PROVISIONS TO AVOID DAMAGE.
 - POSITION OF WATER PIPE INFORMED BY INFORMATION PROVIDED BY PORTSMOUTH WATER. EXACT POSITION OF PIPE IS TO BE DETERMINED ON SITE PRIOR TO WORKS COMMENCING.
 - SURFACE COURSE TO CONSIST OF A6 DENSE SURF 100/150 TO BS EN 13108-1. MIN PSV TO BE 55.
 - BINDER COURSE TO CONSIST OF:
AC20 DENSE BINDER 40/60 TO BS EN 13108-1.
 - SUBBASE SHALL BE ONE OF THE MATERIALS COMPLYING WITH CLAUSE 803, CLAUSE 807, 893AR OR 894AR AS SPECIFIED BY HAMPSHIRE COUNTY COUNCIL.
 - PRE CAST EDGINGS: 50mm BY 150mm FLAT TOP EDGING TO BS EN 1340.
 - WEATHERING RESISTANCE: CLASS 3
 - BENDING STRENGTH: CLASS 2
 - ABRASION RESISTANCE: CLASS 3
 - SLIP/SD RESISTANCE: MIN PPTV 45 TO BS 7932 if
 - DRAINAGE PIPES SHALL COMPLY WITH THE REQUIREMENTS OF FILTER DRAIN PIPES IN TABLE 5/1 OF THE SPECIFICATION FOR HIGHWAY WORKS.
 - FILTER DRAIN PIPES ARE TO BE LAID WITH SLOTS OR PERFORATIONS DOWNWARDS UNLESS OTHERWISE DESCRIBED.

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
P02	03/02/25	DRAFT
C02	03/02/25	FOR PLANNING
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

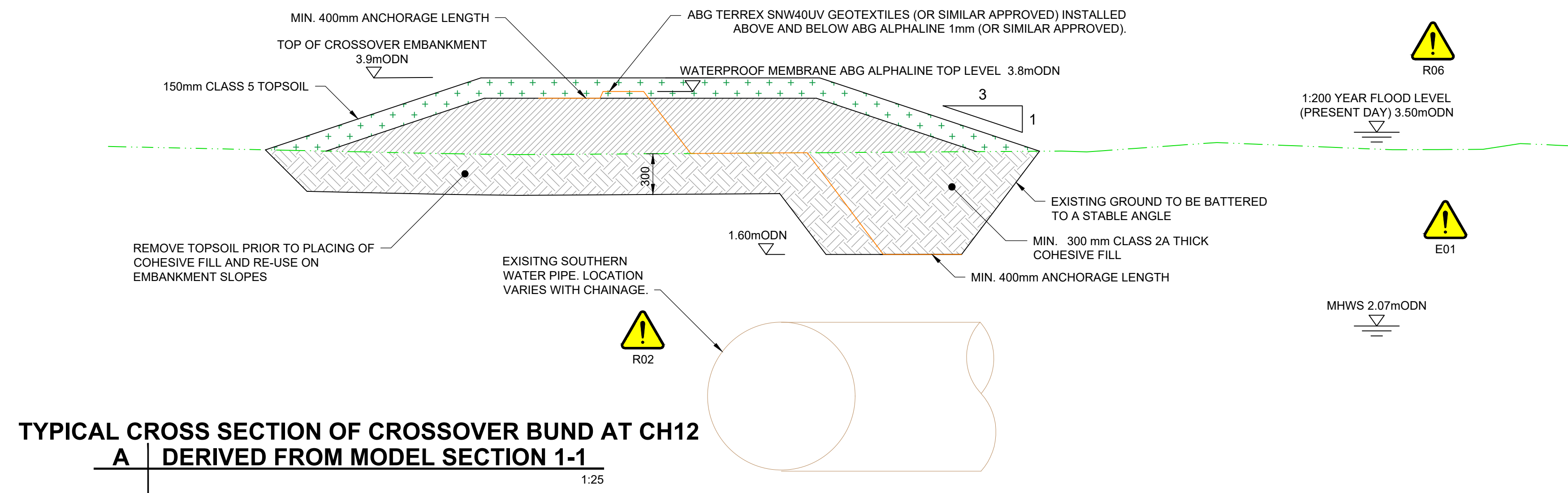
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SHEET TITLE

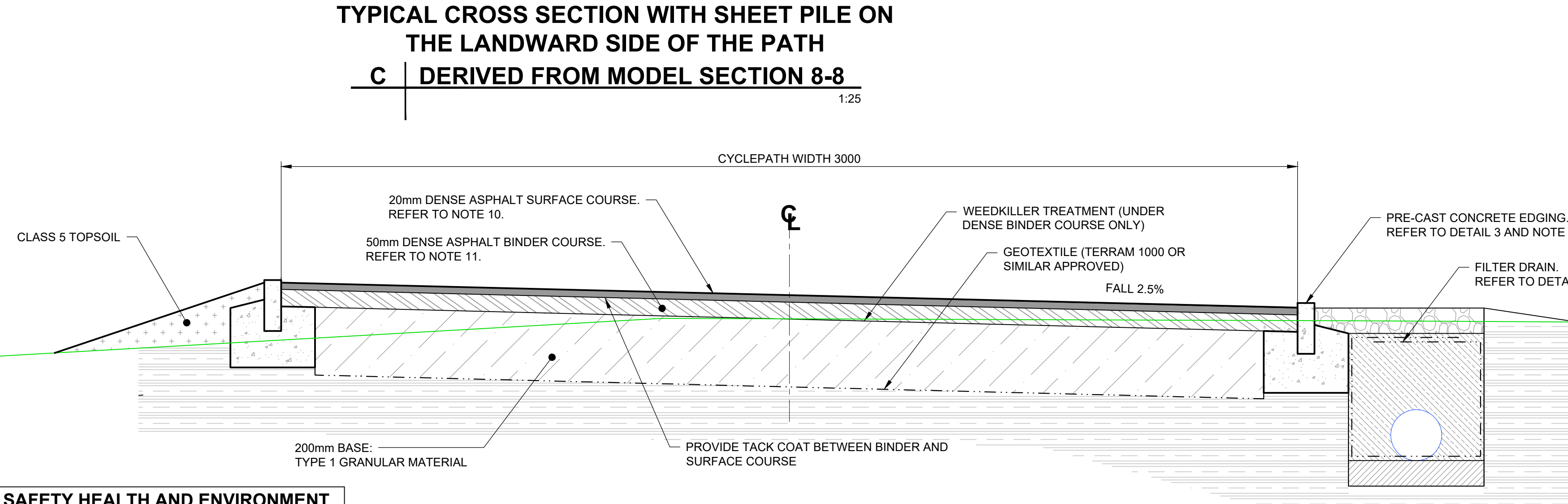
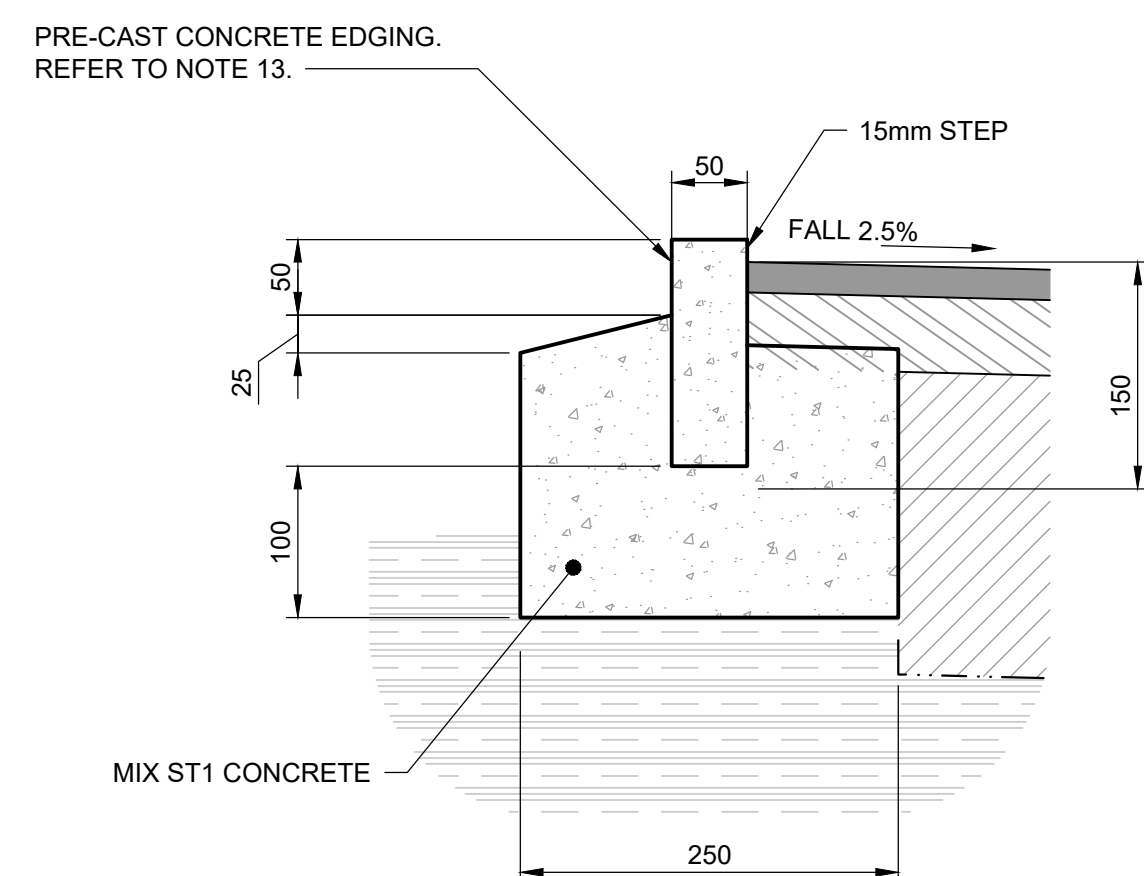
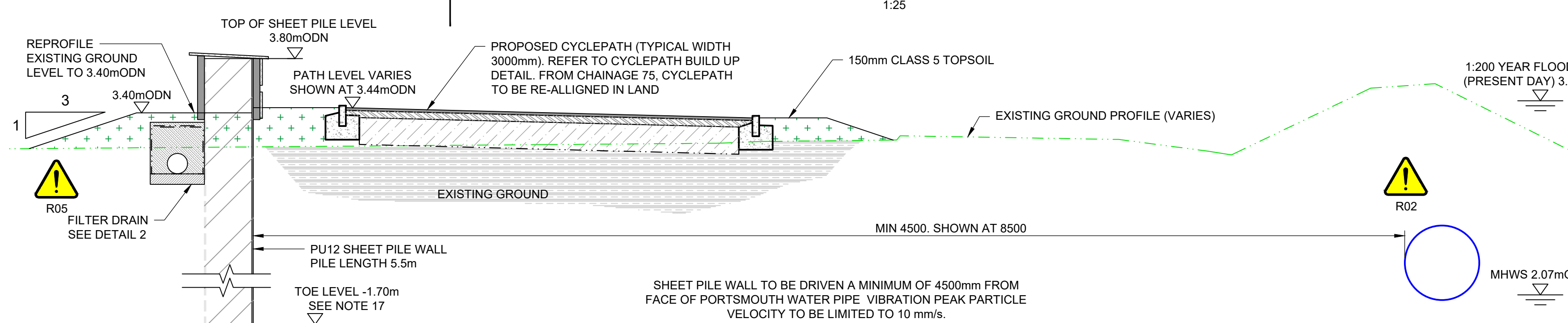
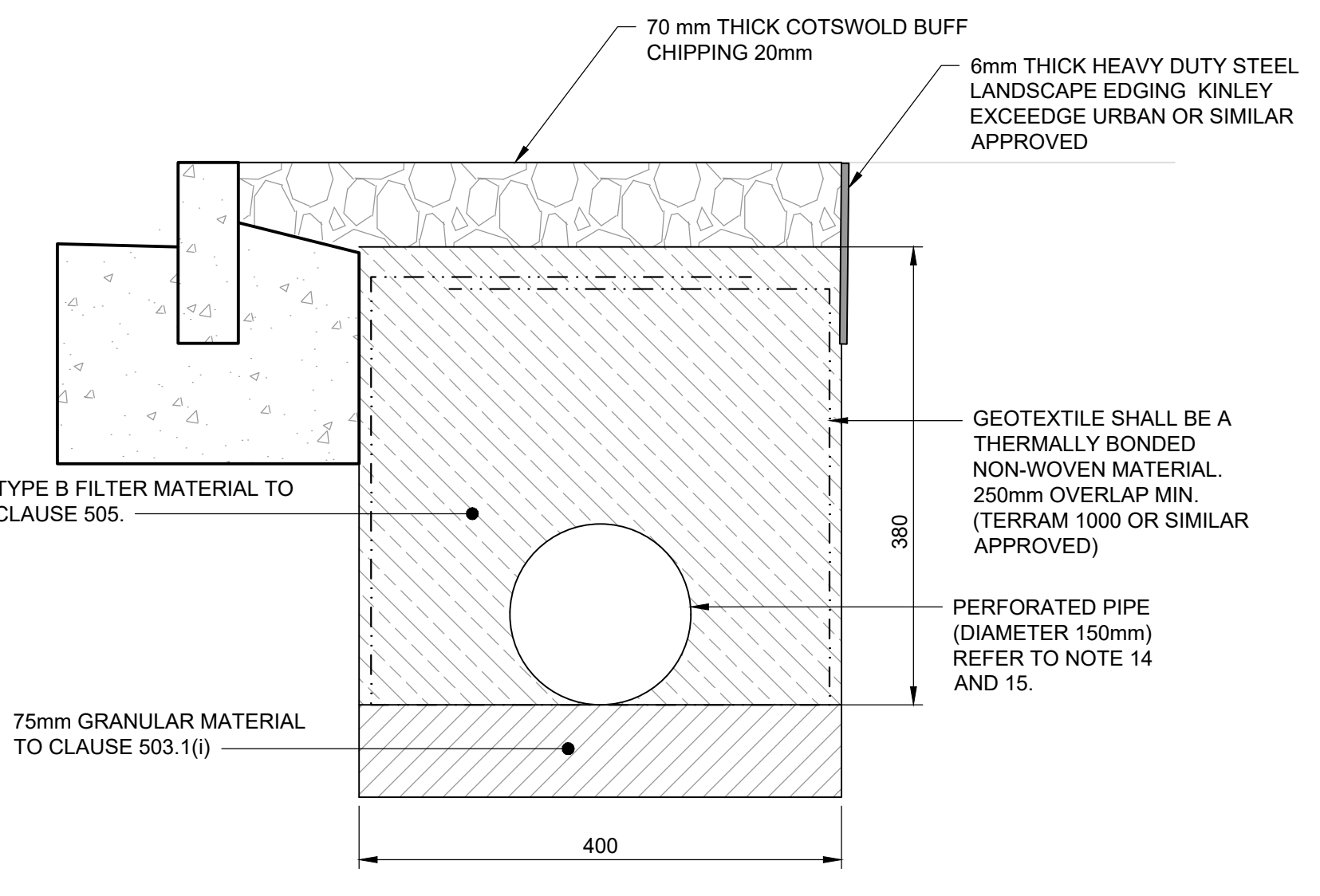
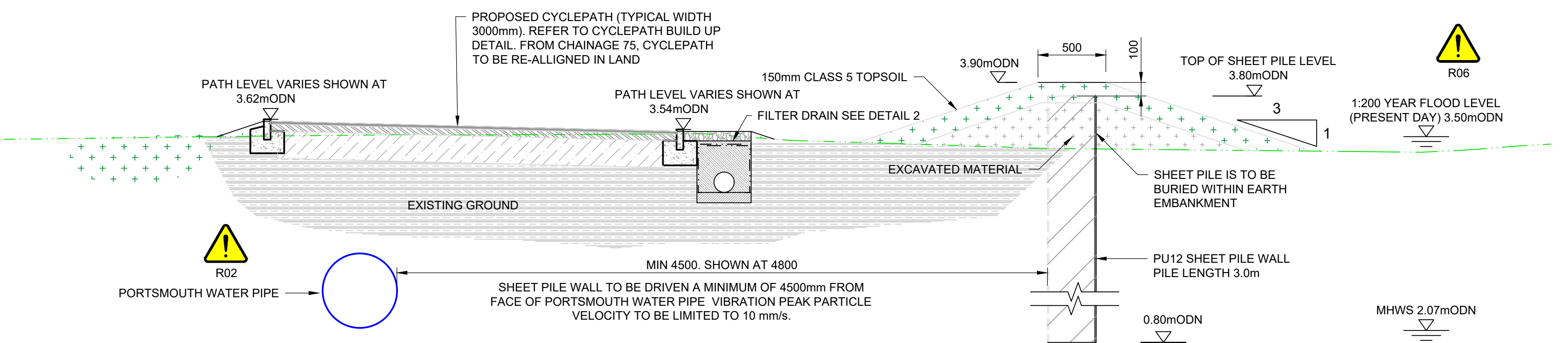
FRONTAGE 2
TYPICAL DETAILS
SHEET 1

SHEET NUMBER

LANG-ACM-ZZ-F2-DR-ZZ-051204



NOTE 17: SHEET PILE TOE LEVEL VARIES
CH30 TO CH92 - 3m LONG PU12 TOE LEVEL 0.8mODN
CH87 TO CH165 - 5.5m LONG PU12 TOE LEVEL -1.7mODN
CH165 TO CH200 - 3.5m LONG PU12 TOE LEVEL 0.3mODN



SAFETY HEALTH AND ENVIRONMENT INFORMATION
PLEASE REFER TO LANG-ACM-ZZ-F2-DR-ZZ-011201 FOR SHE INFORMATION.

Langstone Flood and Coastal Erosion Risk Management Scheme

HAVANT BOROUGH
COUNCIL

Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
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GENERAL NOTES

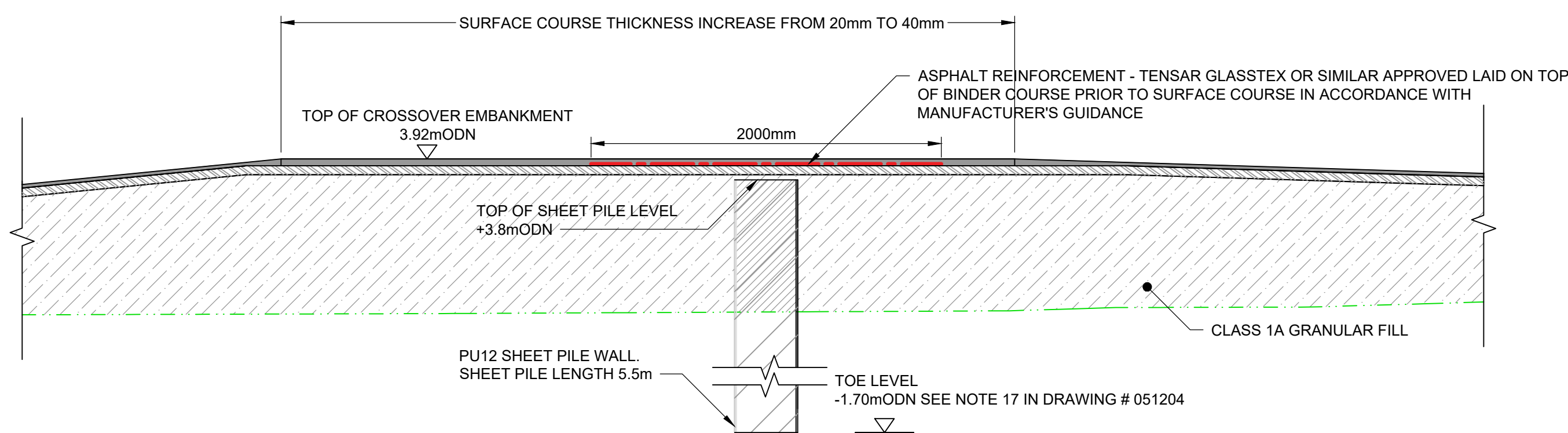
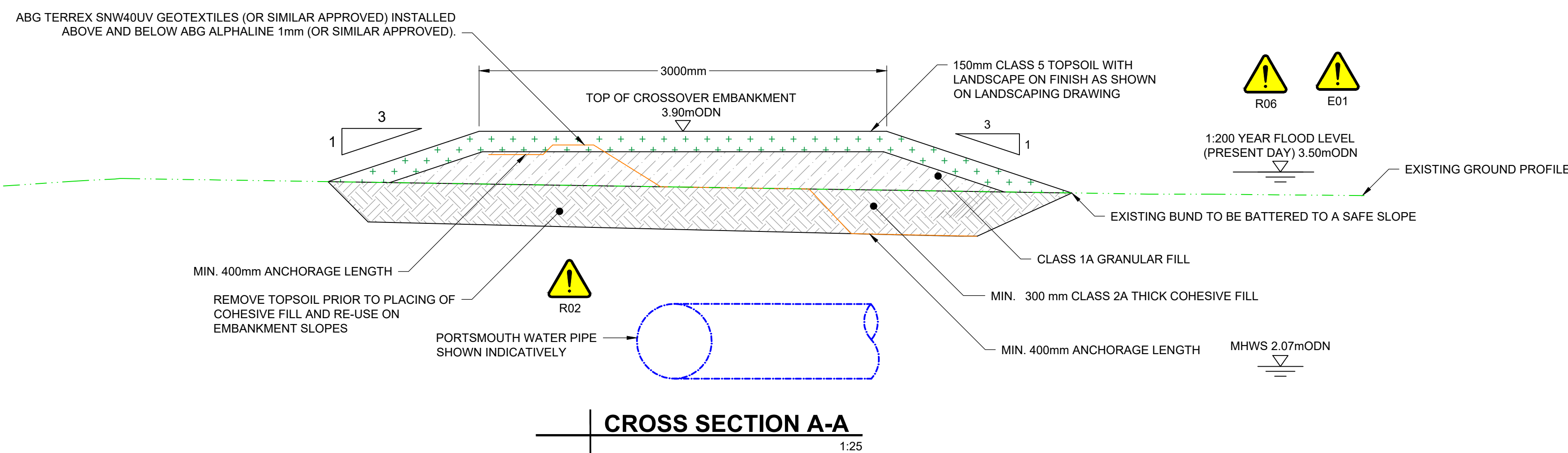
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4. DEFENCE LENGTH/EXTENT SHOWN ARE APPROXIMATE THE EXACT EXTENT OF THE TYPICAL CROSS SECTION IS TO BE CONFIRMED ON SITE WITH THE SUPERVISOR.
5. LENGTH LEAD LINE INDICATES THE MINIMUM LENGTH, AND BEACH LEVEL VARY SPATIALLY AND WITH TIME.
6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE REGISTER LANGUAGES ZF-ZR-ZK-ZR-CK-ZO(00E) FOR ANY IDENTIFIED POTENTIAL RISKS.
7. ALSO REFER TO DRAWINGS:
 - F2 GENERAL ARRANGEMENT - # 011201
 - F2 MODEL CROSS SECTION - # 031202 & # 031203
 - F2 F2 GENERAL DETAILS - # 051204, # 051205 & # 051206

8. RISK OF DAMAGE TO EXISTING SERVICES DUE TO GROUND MOVEMENTS INDUCED BY EXCAVATION
9. PROVISIONS TO BE MADE TO MAKE NECESSARY PROVISIONS TO AVOID DAMAGE.
10. POSITION OF WATER PIPE INFORMED BY INFORMATION PROVIDED BY PORTSMOUTH WATER. EXACT POSITION TO BE TO BE DETERMINED ON SITE PRIOR TO WORKS COMMENCING.
11. SURFACE COURSE TO CONSIST OF A6C DENSE SURF 100/150 TO BS EN 13108-1.
12. BINDER COURSE TO CONSIST OF:
AC20 DENSE BINA 40/60 TO BS EN 13108-1.
13. SUBBASE SHALL BE ONE OF THE MATERIALS COMPLYING WITH CLAUSE 803. CLASS 807, 883AR OR 883B (SPECIFIED) SHALL BE USED.
14. PRE CAST EDGINGS: 50mm B7 150mm FLAT TOP EDGING TO BS EN 1340.
15. WEATHERING RESISTANCE: CLASS 3
16. BENDING STRENGTH: CLASS 2
17. ABRASION RESISTANCE: CLASS 3
18. SLIP/ROAD RESISTANCE: MIN PTV 45 TO BS 7932.
19. DRAINAGE PIPES SHALL COMPLY WITH THE REQUIREMENTS OF FILTER DRAIN PIPES IN TABLE 5/1 OF THE SPECIFICATION FOR HIGHWAY WORKS.
20. FILTER DRAIN PIPES ARE TO BE LAID WITH SLOTS OR PERFORATIONS DOWNWARDS UNLESS OTHERWISE DESCRIBED.

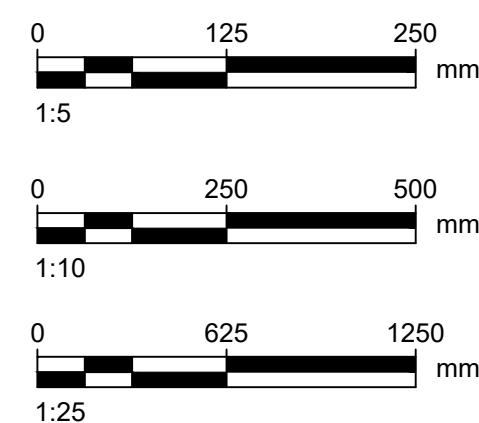
P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
P03	28/01/25	
C02	28/01/25	FOR PLANNING
I/R	DATE	DESCRIPTION

FRONTAGE 2
TYPICAL DETAILS
SHEET 2

LANG-ACM-ZZ-F2-DR-ZZ-051205



TYPICAL CROSS SECTION OF CROSSOVER BUND AT CH155
DERIVED FROM MODEL LONGSECTION



PLEASE REFER TO LANG-ACM-ZZ-F2-DR-ZZ-011201 FOR SHE INFORMATION

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PROJECT NUMBER

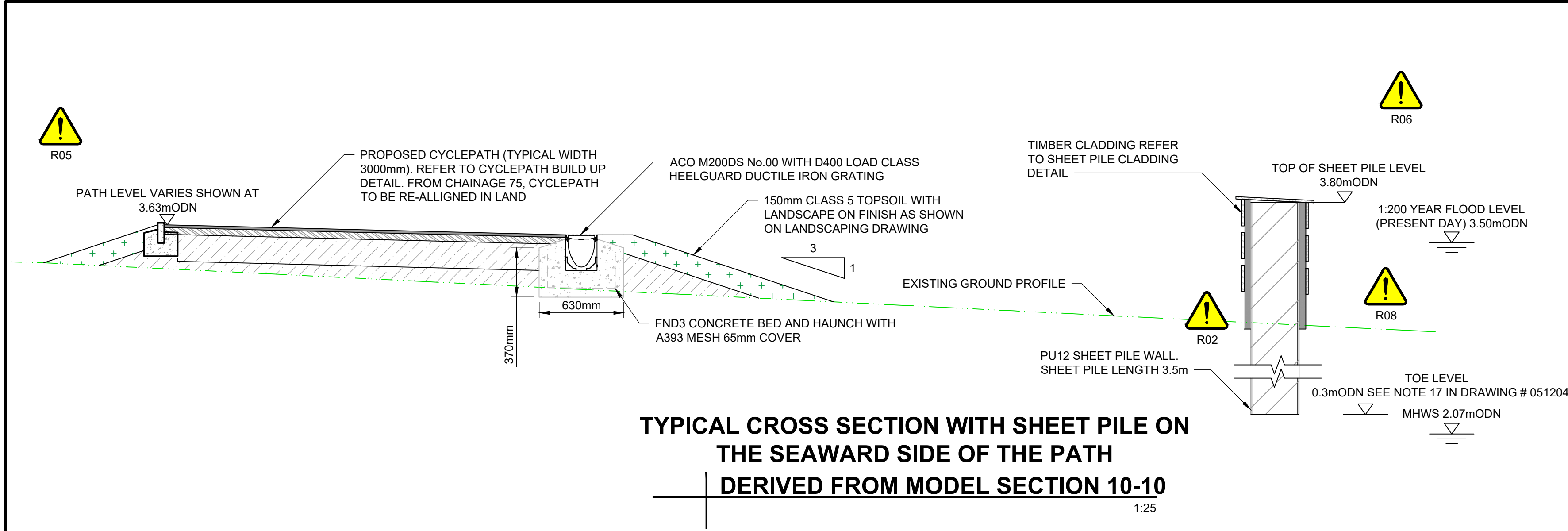
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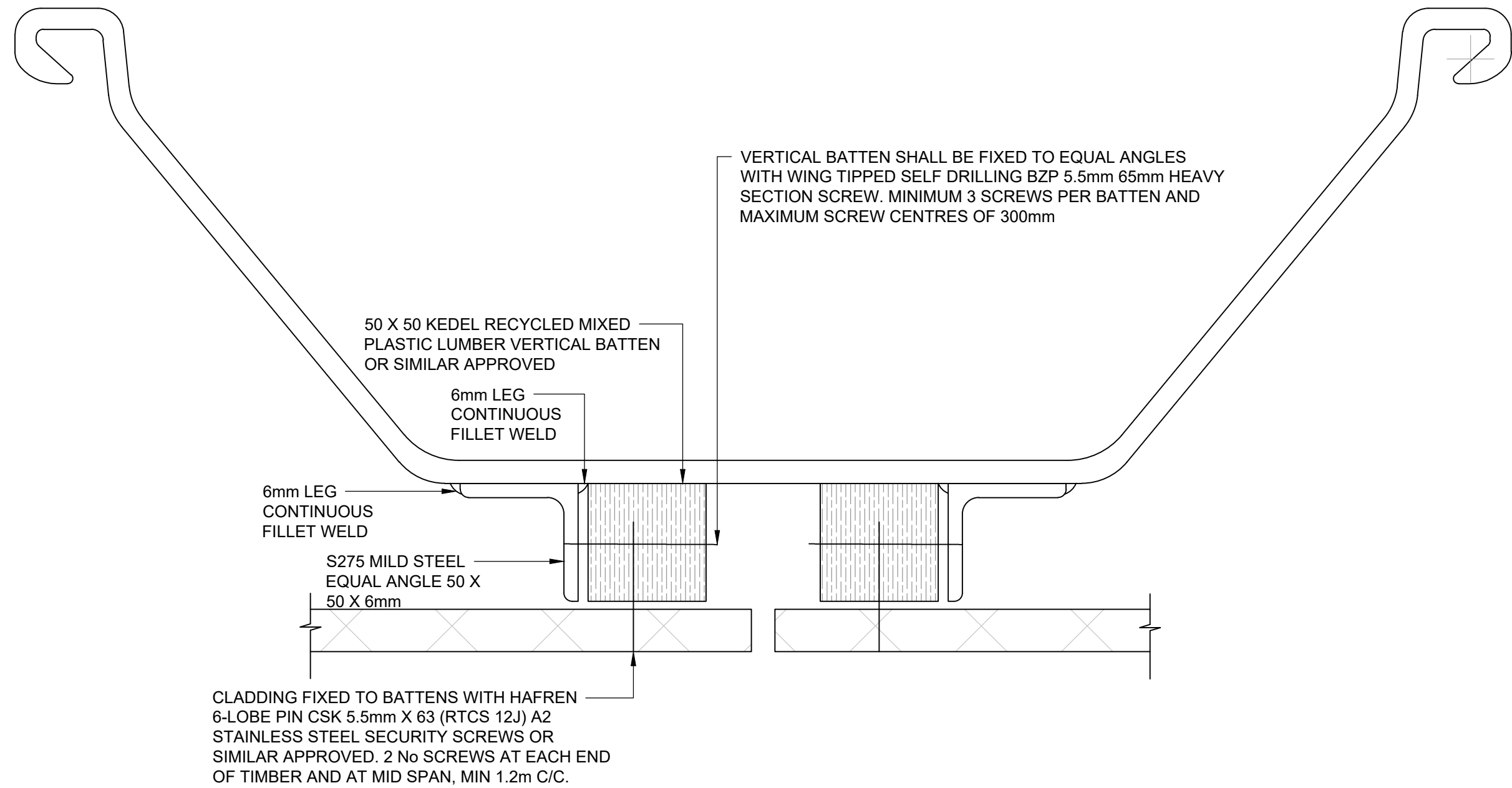
FRONTAGE 2
TYPICAL DETAILS
SHEET 2

SHEET NUMBER

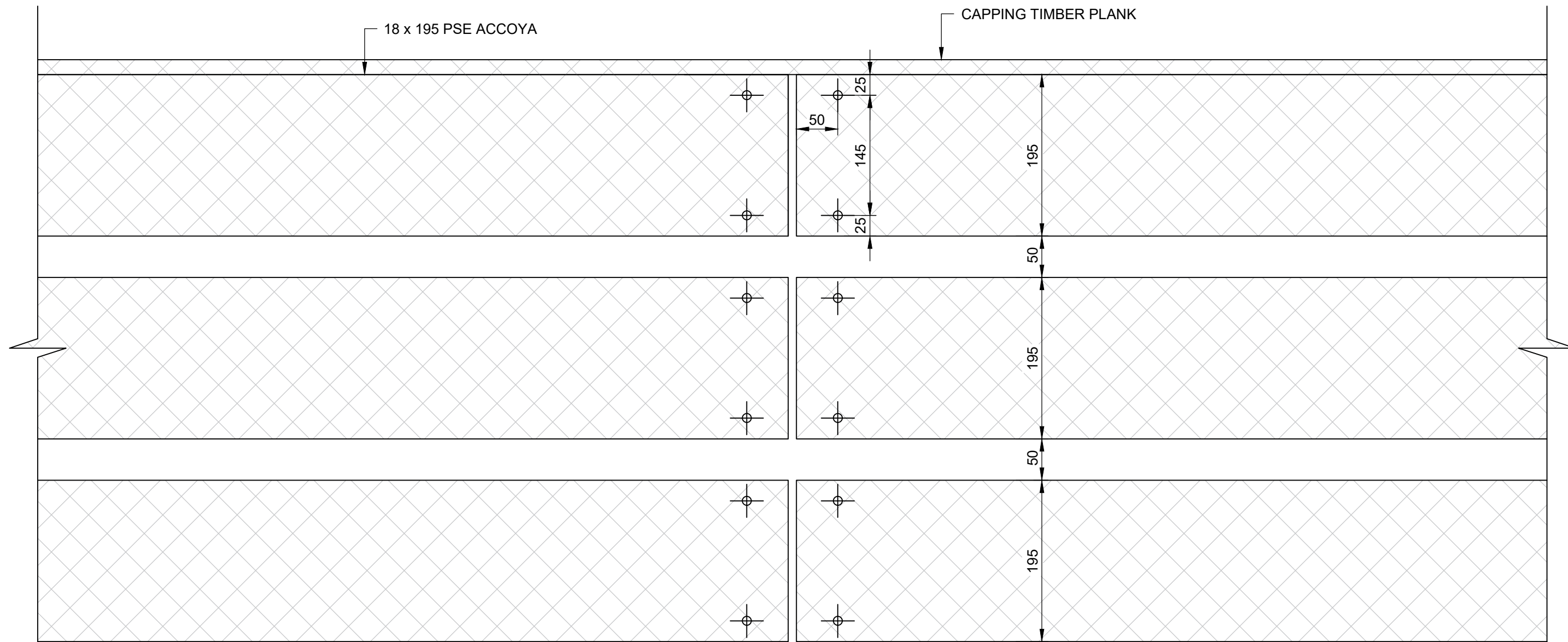
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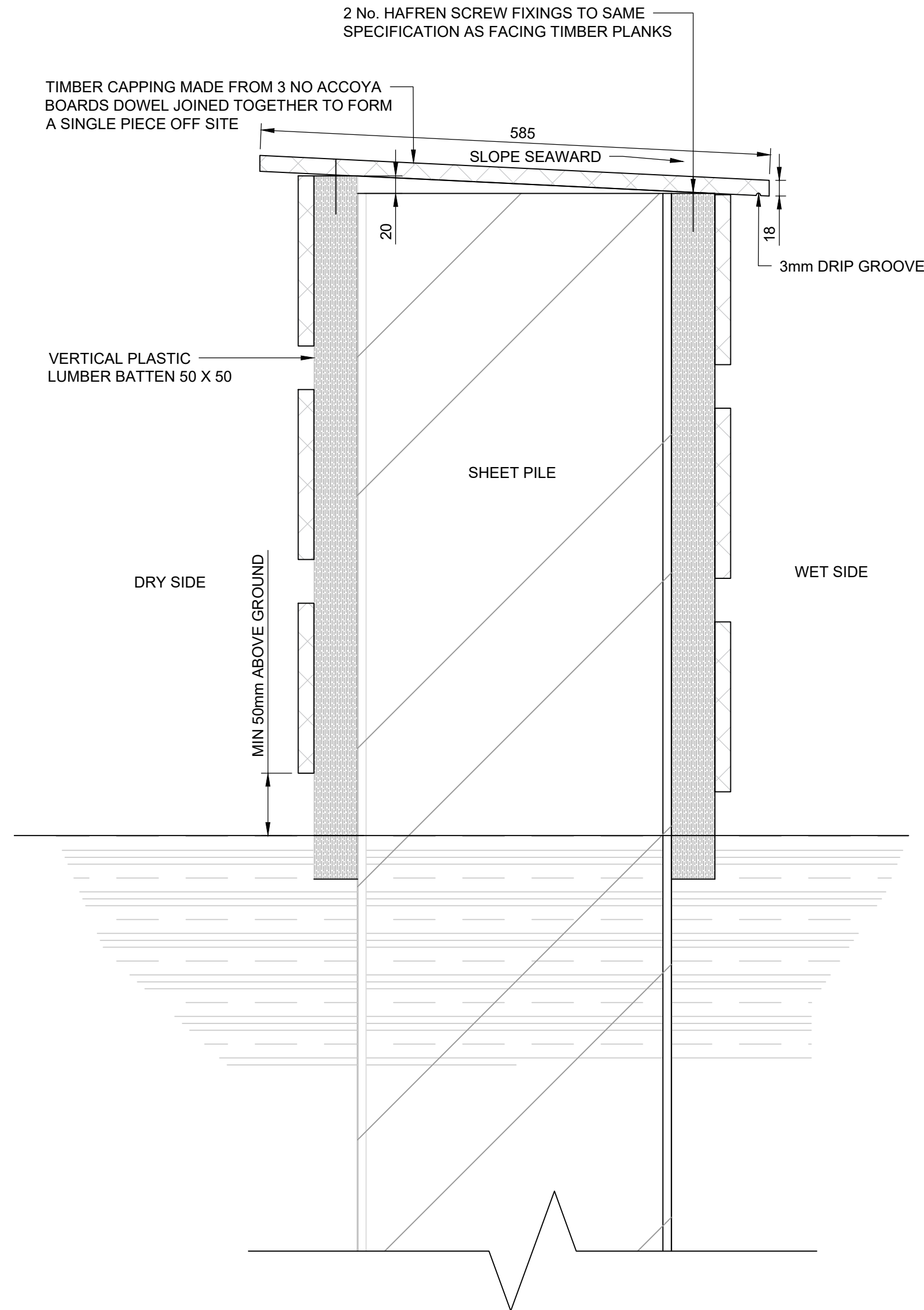
TYPICAL CROSS SECTION WITH SHEET PILE ON THE SEAWARD SIDE OF THE PATH
DERIVED FROM MODEL SECTION 10-10
1:25



SHEET PILE CLADDING DETAIL
SECTION THROUGH FACE CLADDING
1:2



SHEET PILE CLADDING DETAIL
ELEVATION
1:5



SHEET PILE CLADDING DETAIL
CAPPING DETAIL
1:5

AECOM

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

AECOM
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www.aecom.com

NOTES

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 - ALSO REFER TO DRAWINGS:
F2 GENERAL ARRANGEMENT - # 011201
F2 MODEL CROSS SECTIONS - # 031202 & # 031203
F2 TYPICAL DETAILS - # 051204, # 051205 & # 051206
- DRAWING SPECIFIC NOTES
- 3 - 4 BOARDS SHOWN. THE ACTUAL NUMBER OF BOARDS VARIES DEPENDING ON GROUND LEVEL. MIN 50mm CLEARANCE BENEATH LOWEST BOARD ABOVE GROUND LEVEL.
 - MAXIMUM BOARD LENGTH TO BE 3.6m ON STRAIGHTS. 2.4m and 1.2m LENGTH AROUND BENDS. VERTICAL BATTENS SHALL BE MACHINED TO ENSURE THAT THE FACING TIMBERS ARE STRAIGHT. CORNERS CAN BE ACHIEVED THROUGH A FULL DEPTH BEVEL TO THE ENDS OF OPPOSING BOARDS.
 - ALL PLASTICS MUST BE PRE-DRILLED FOR FIXINGS.

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

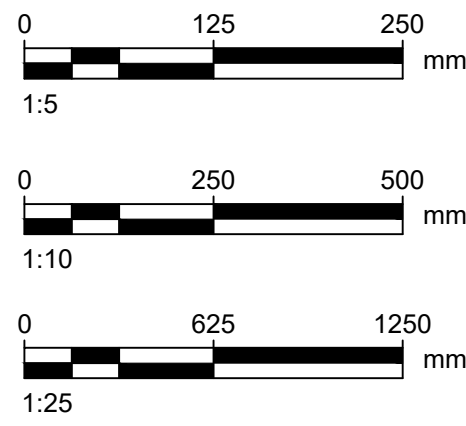
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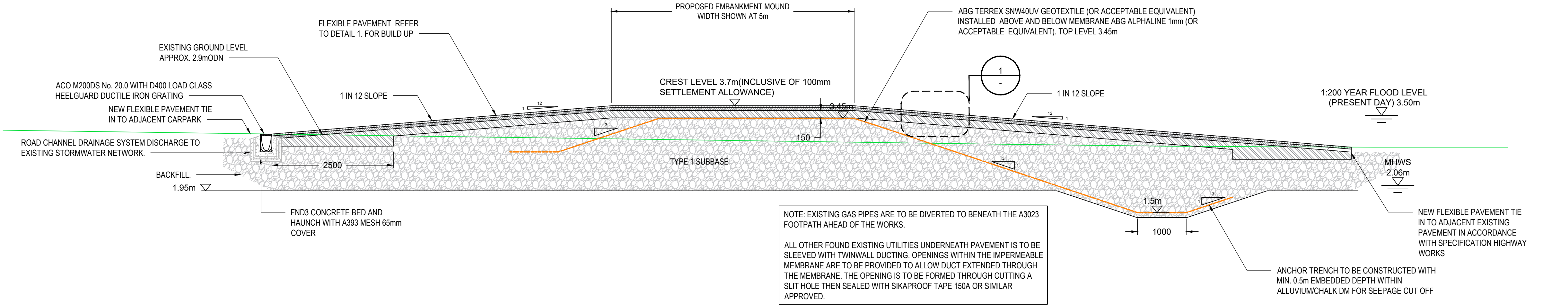
FRONTAGE 2
TYPICAL DETAILS
SHEET 3

SHEET NUMBER

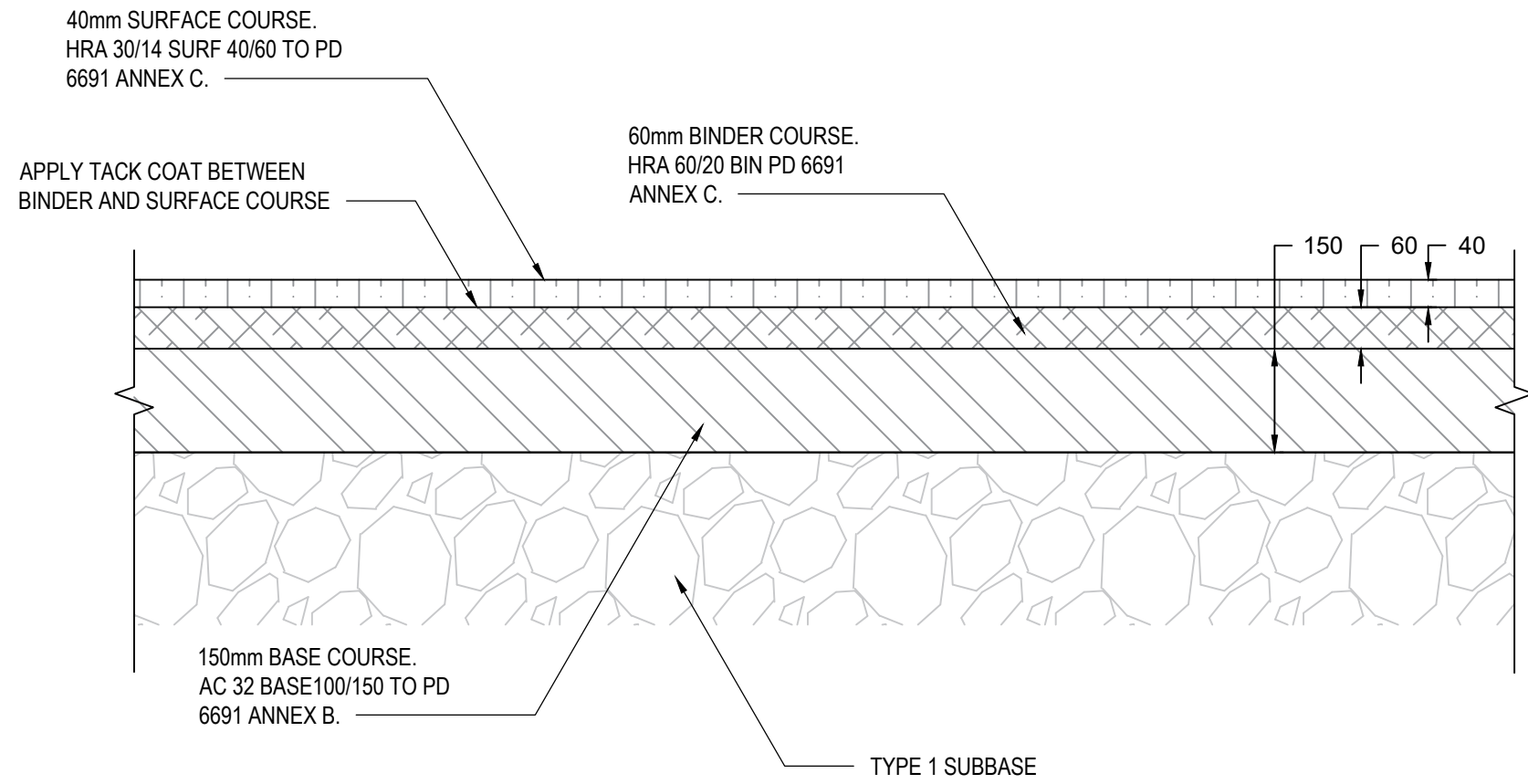
LANG-ACM-ZZ-F2-DR-ZZ-051206

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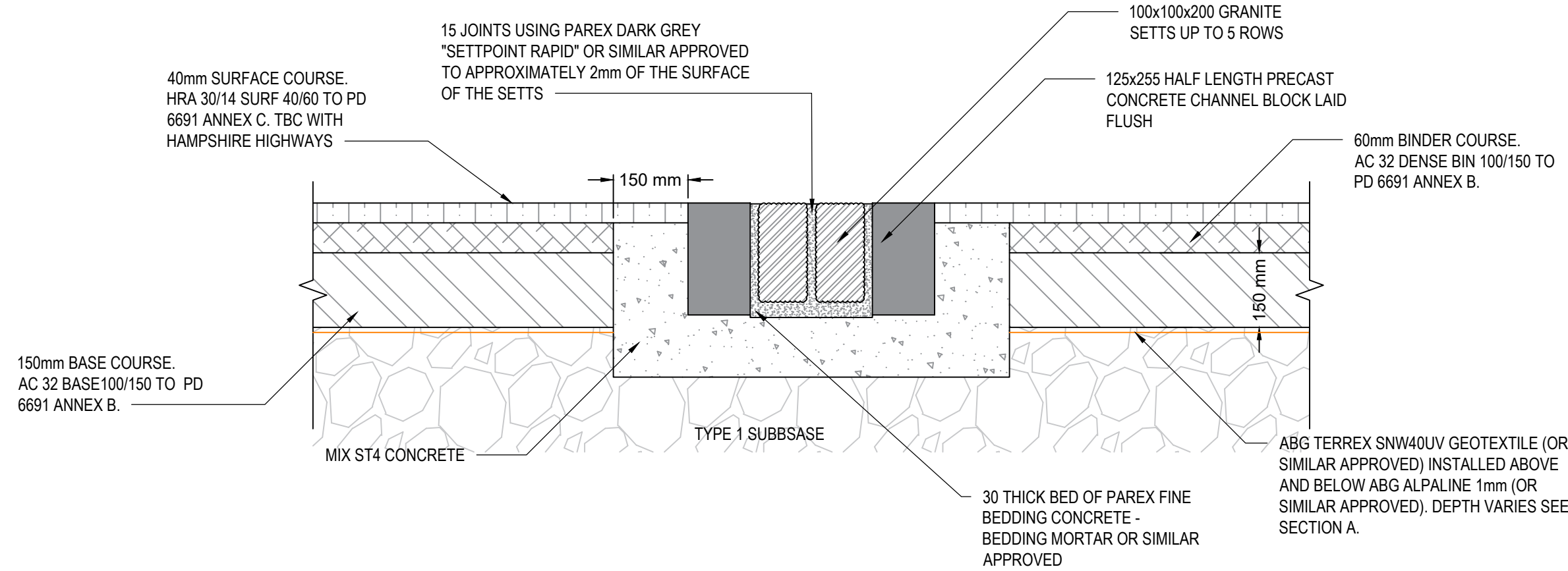




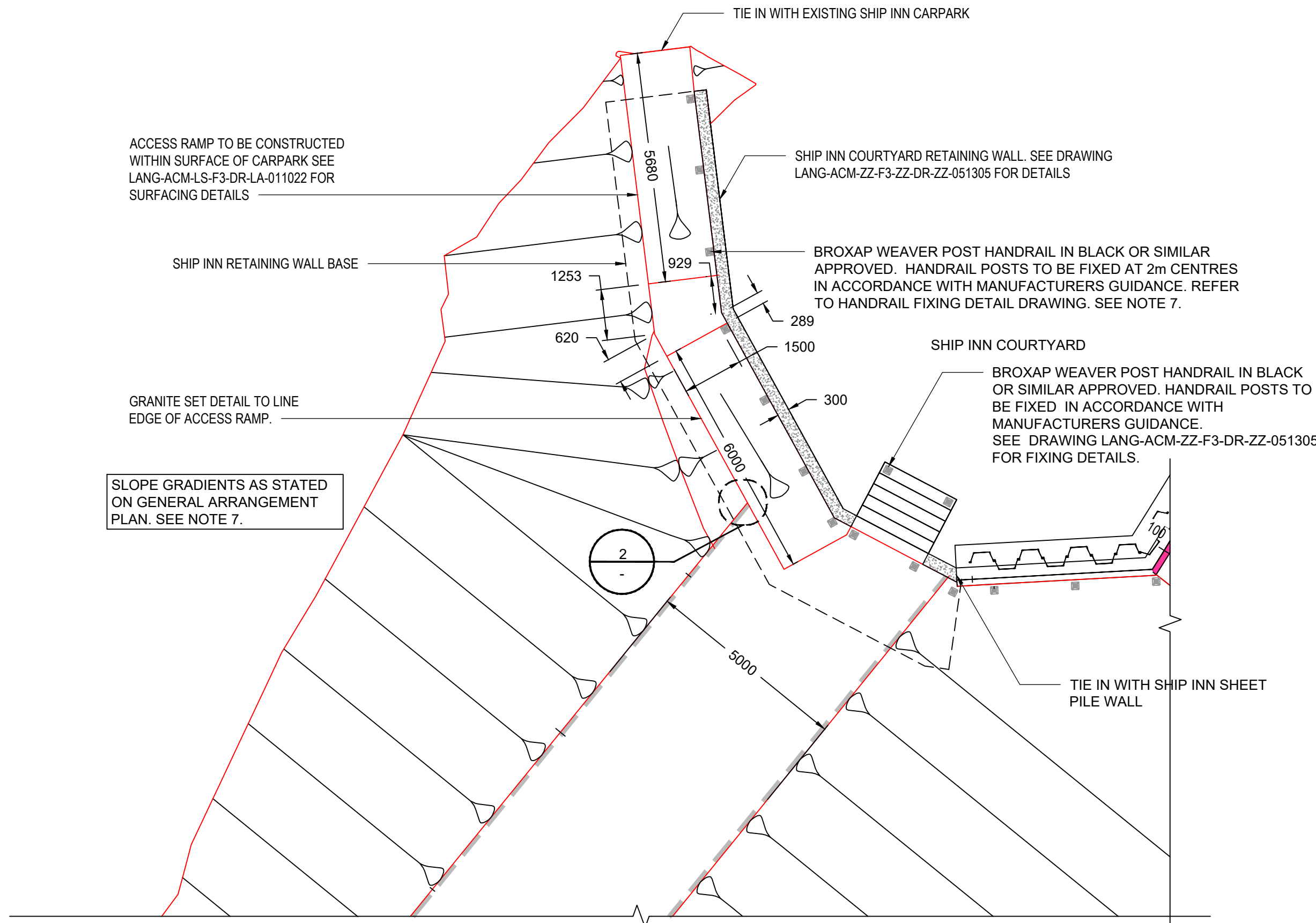
CHAINAGE 67-89
TOTAL SURFACE AREA: 460m²
A | SHIP INN CAR PARK TYPICAL SECTION
DERIVED FROM MODEL SECTION 4-4



1 | PAVEMENT BUILD UP DETAIL
1:10



2 | TYPICAL GRANITE SETT DETAIL
1:10



B | SHIP INN CAR PARK - ACCESS RAMP
1:100

SAFETY HEALTH AND ENVIRONMENT INFORMATION
PLEASE REFER TO LANG-ACM-ZZ-F3-DR-ZZ-000001 FOR SHE INFORMATION.

AECOM

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

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 - ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - ##011301
MODEL SECTIONS - ##031302 & ##031303
HANDRAIL FIXING - ##051065
REBAR DETAILS - ##081930 TO ##

DRAWING SPECIFIC NOTES:
8. ALL SERVICE DIVERSIONS ARE TO BE IN ACCORDANCE WITH UTILITY PROVIDER GUIDANCE.

ISSUE/REVISION

ISSUE/REVISION	DATE	DESCRIPTION
P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

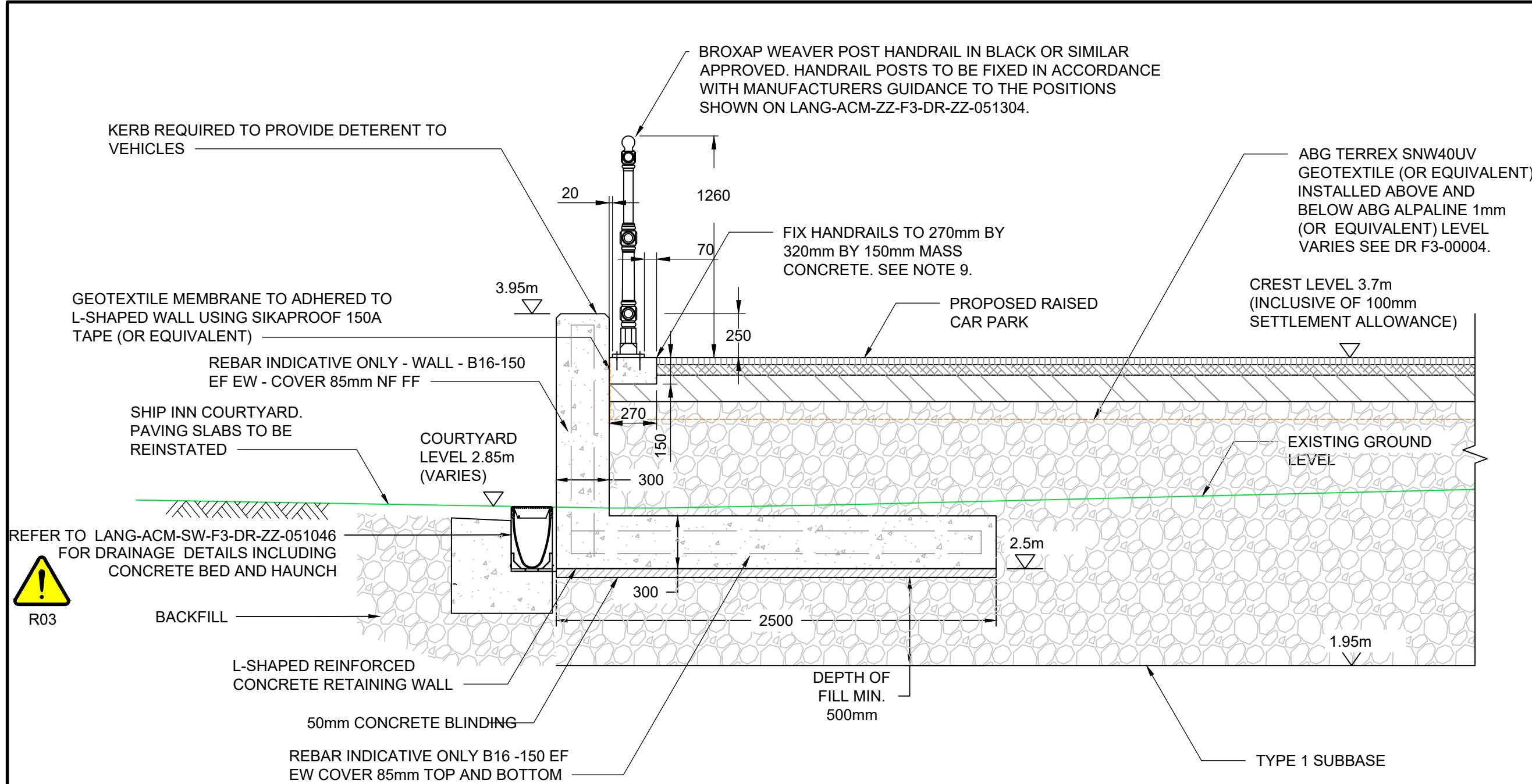
SHEET TITLE

FRONTAGE 3
TYPICAL DETAILS
SHEET 1 SHIP INN CAR PARK

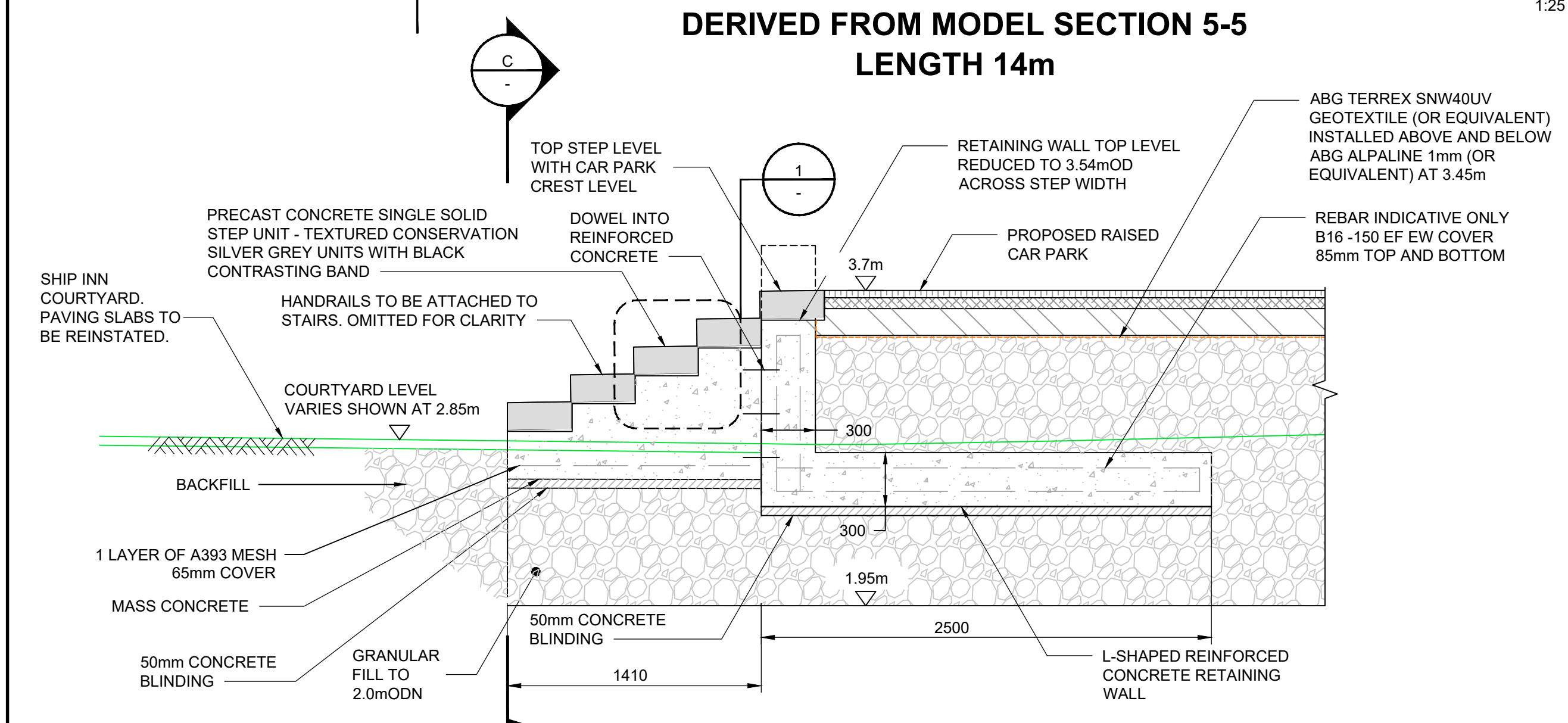
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LANG-ACM-ZZ-F3-DR-ZZ-051304

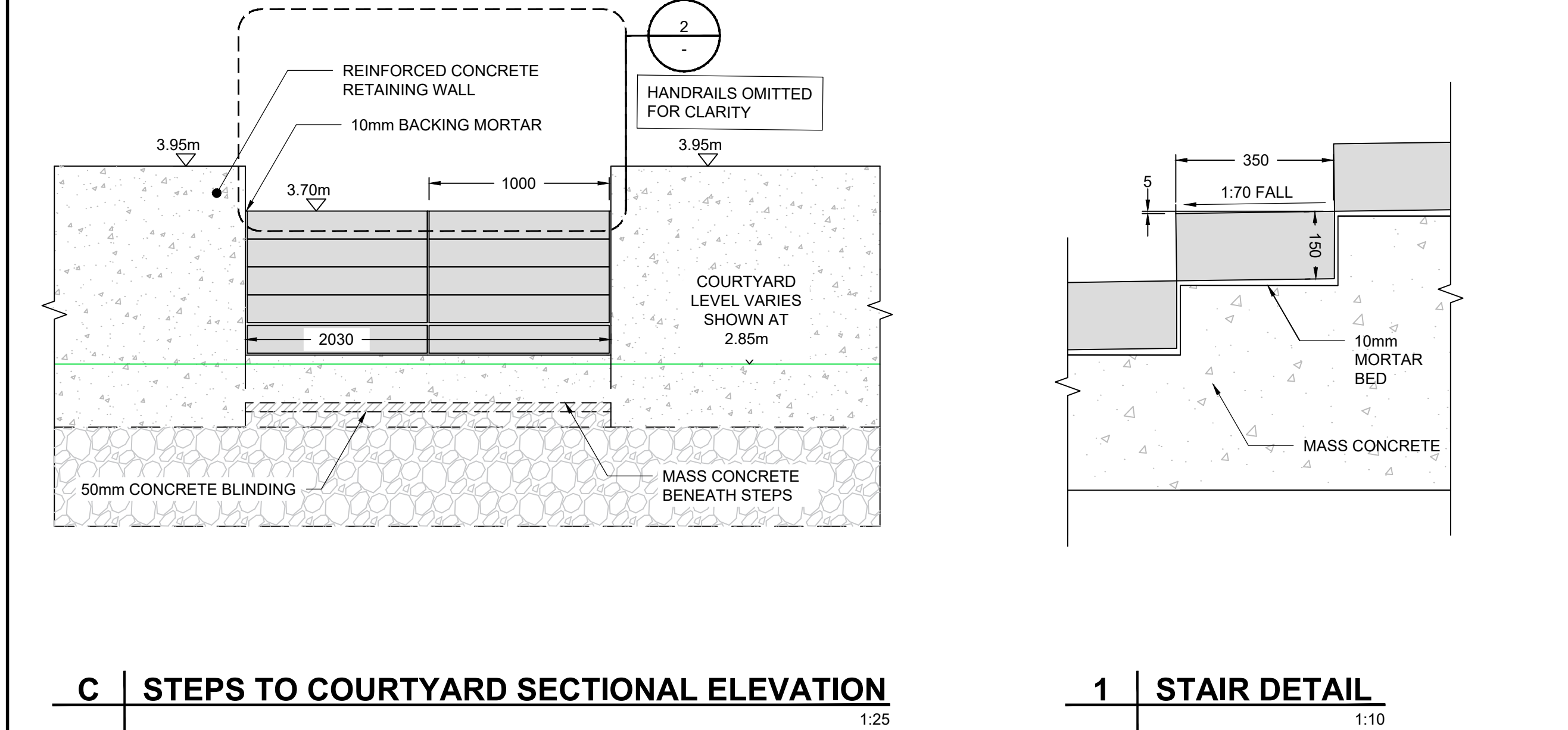
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Drawn: HR
Approved: JS
Checked: CP
Designer: HR
Project Management Initials: COT
Revision:
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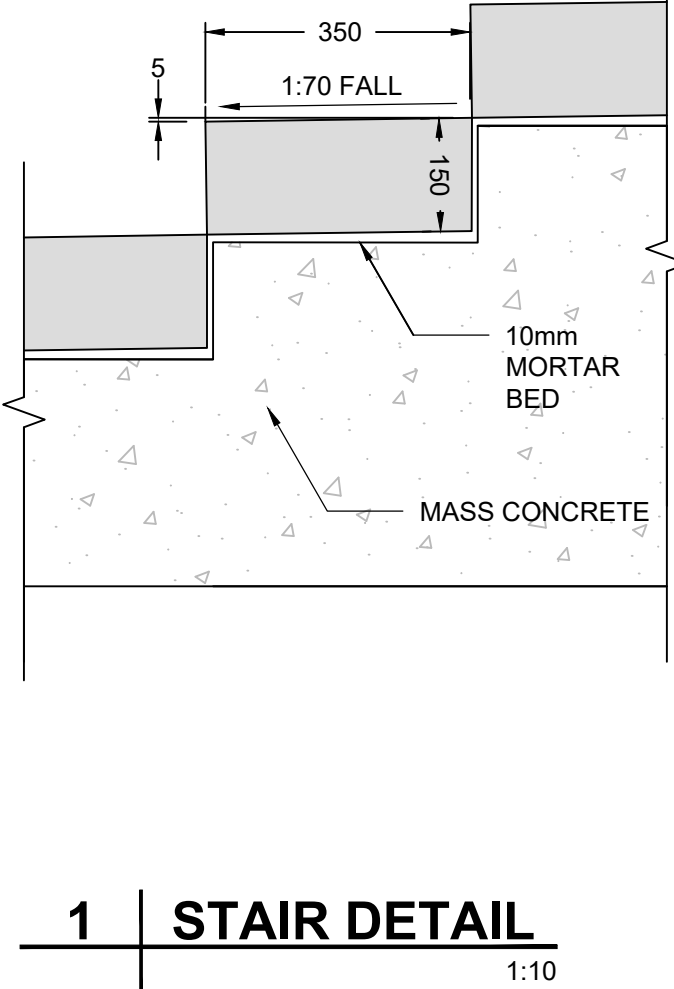
A | SHIP INN RETAINING WALL ADJACENT TO CAR PARK TYPICAL SECTION
DERIVED FROM MODEL SECTION 5-5
LENGTH 14m
1:25



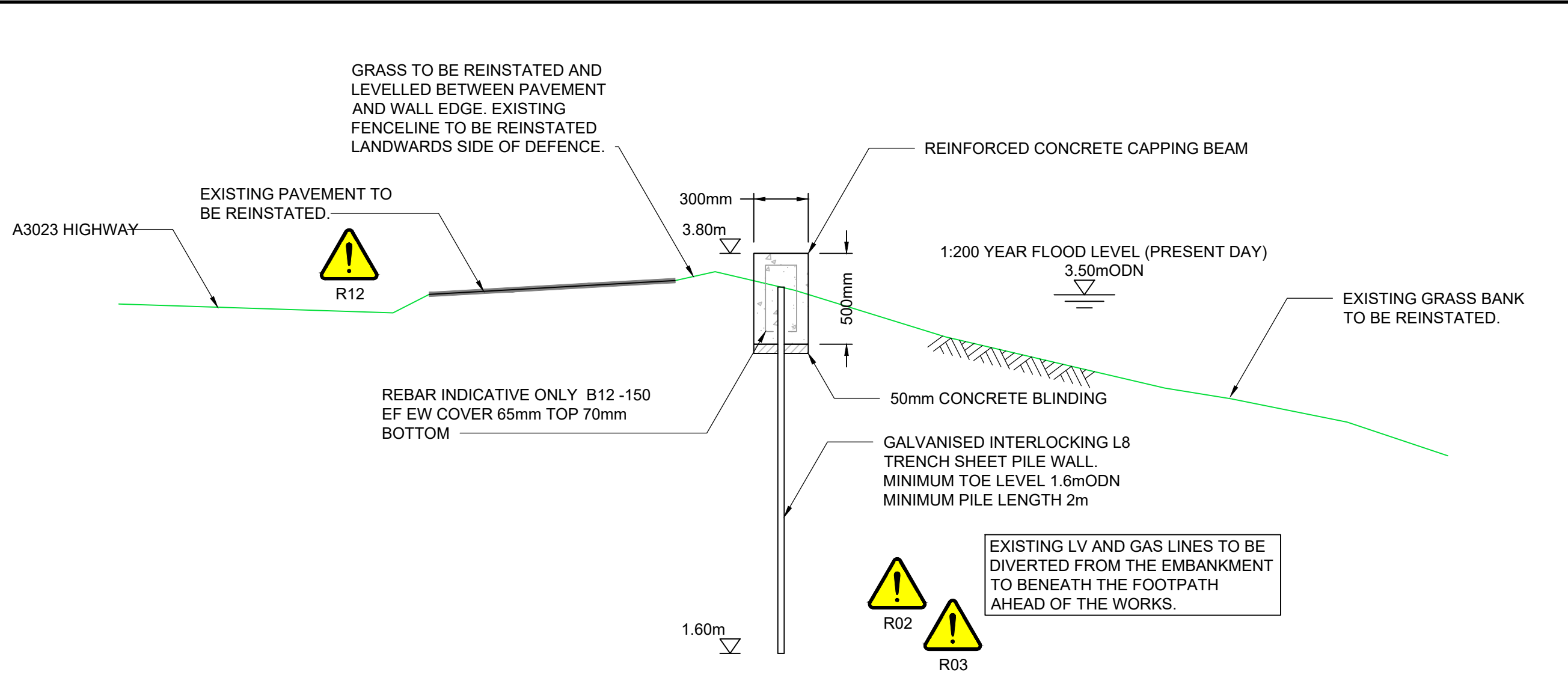
B | STEPS TO COURTYARD TYPICAL DETAIL
DERIVED FROM MODEL SECTION 5-5
CHAINAGE 95 - 97 LENGTH 2m
1:25



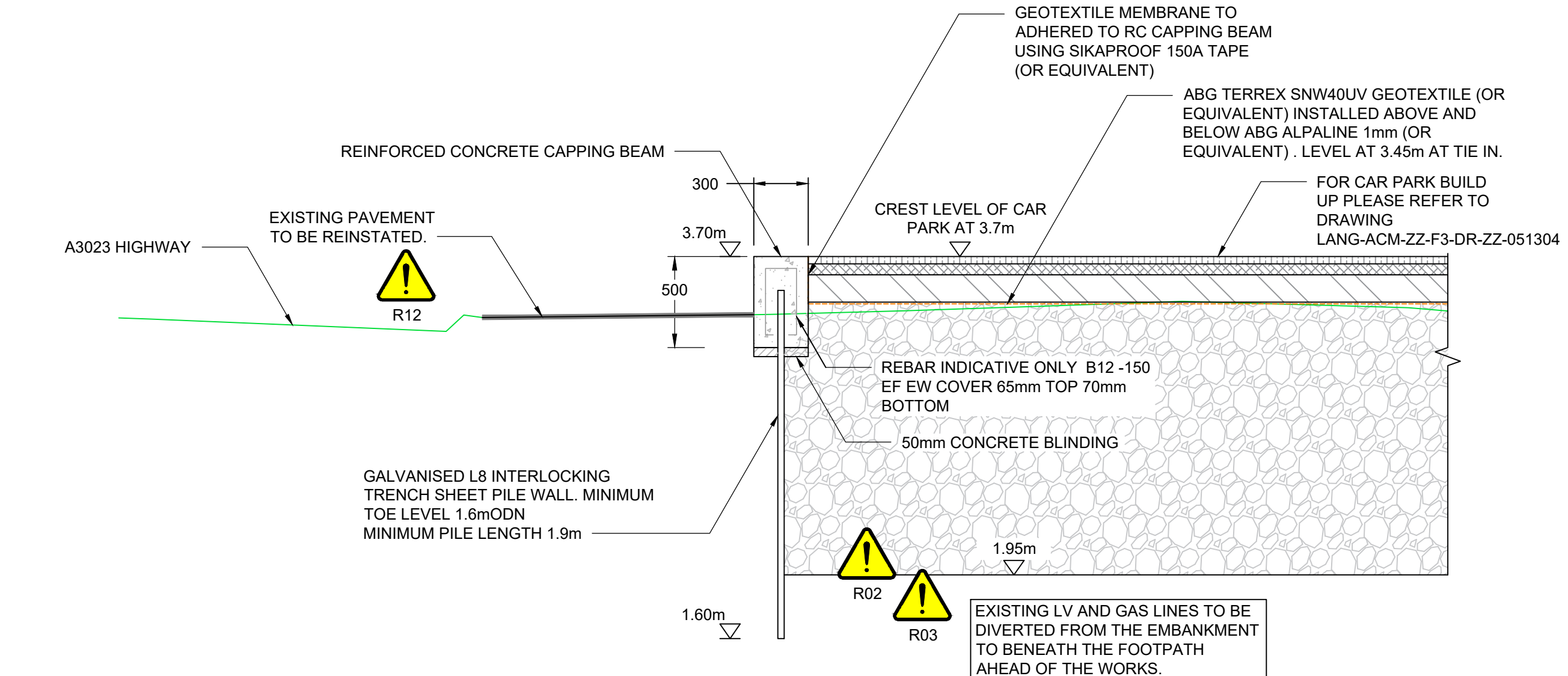
C | STEPS TO COURTYARD SECTIONAL ELEVATION
1:25



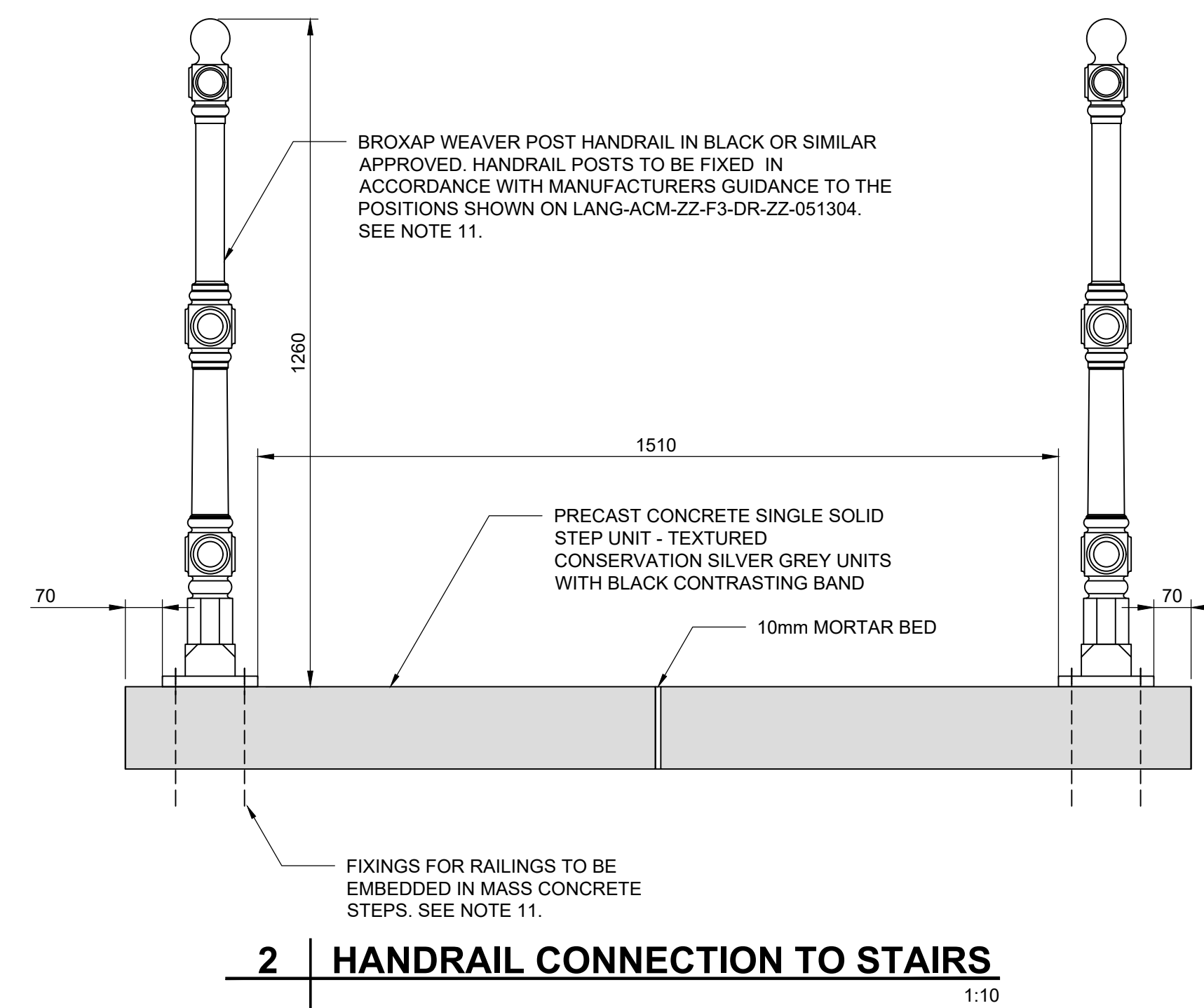
1 | STAIR DETAIL
1:10



D | A3023 SHEET PILE WALL TYPICAL SECTION
DERIVED FROM MODEL SECTION 1-1
CHAINAGE 0 - 66
1:25

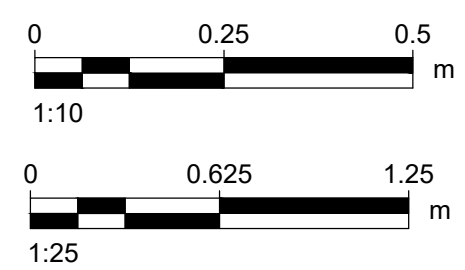


E | A3023 SHEET PILE WALL SECTION NEXT TO CAR PARK
DERIVED FROM MODEL SECTION 3-3
SHOWN AT CHAINAGE 65
1:25



2 | HANDRAIL CONNECTION TO STAIRS
1:10

SAFETY HEALTH AND ENVIRONMENT INFORMATION
PLEASE REFER TO LANG-ACM-ZZ-F3-DR-ZZ-011301 FOR SHE INFORMATION.



PROJECT
Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT
HAVANT BOROUGH COUNCIL

CONSULTANT
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RG21 7PP
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 - ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - #011301
MODEL SECTIONS - #031302 & #031303
REBAR DETAILS - #081930 TO #
- DRAWING SPECIFIC NOTES:
- SURFACE FINISH TO NSCS 4TH EDITION UNFORMED CONCRETE - STEEL TROWEL FINISH FORMED CONCRETE - PLAIN FINISH FOOTPATH - EXPOSED AGGREGATE FINISH
 - ALL SERVICE DIVERSIONS ARE TO BE IN ACCORDANCE WITH UTILITY PROVIDER GUIDANCE.
 - HANDRAILS TO BE FIXED WITH 4 No. M12 STAINLESS STEEL RESIN ANCHOR (HIT-HY200-A OR SIMILAR APPROVED) TO MANUFACTURER'S SPECIFICATION. EMBEDMENT DEPTH 70mm. SEE STANDARD DETAIL DRAWING #051065. A MINIMUM DISTANCE OF 70mm BETWEEN HANDRAILS BASE AND THE STRUCTURE EDGE SHOULD BE MAINTAINED, UNLESS STATED ELSEWHERE.

ISSUE/REVISION		
P01	21/11/23	100% Detailed Design
P02	26/02/24	100% Detailed Design
C01	26/02/24	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY
Detail Design Authorised/Accepted

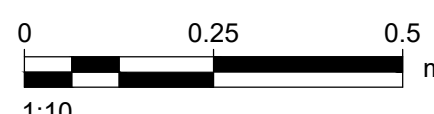
KEY PLAN

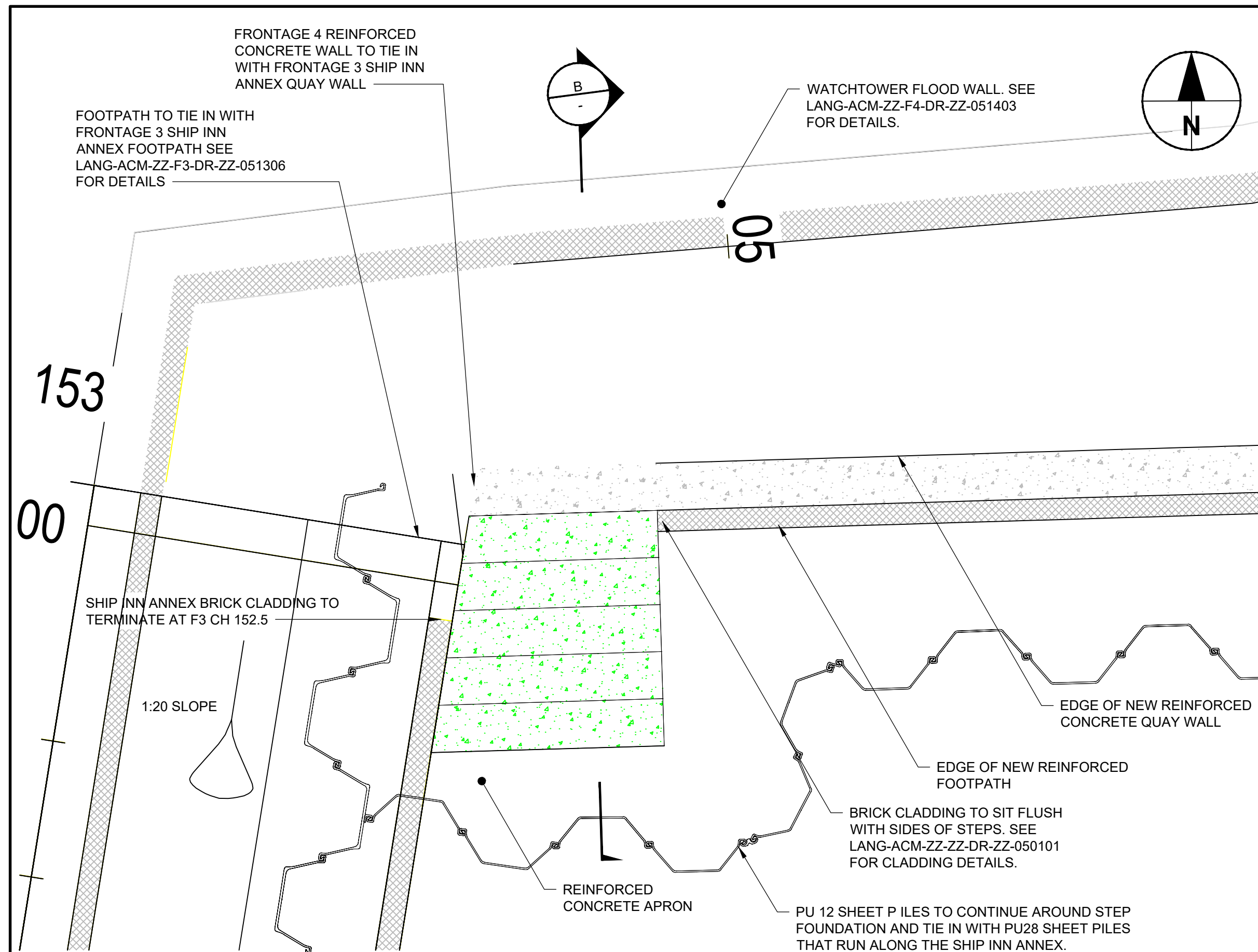
PROJECT NUMBER
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SHEET TITLE
FRONTAGE 3
TYPICAL DETAILS
SHEET 2 A3023 AND
SHIP INN CAR PARK

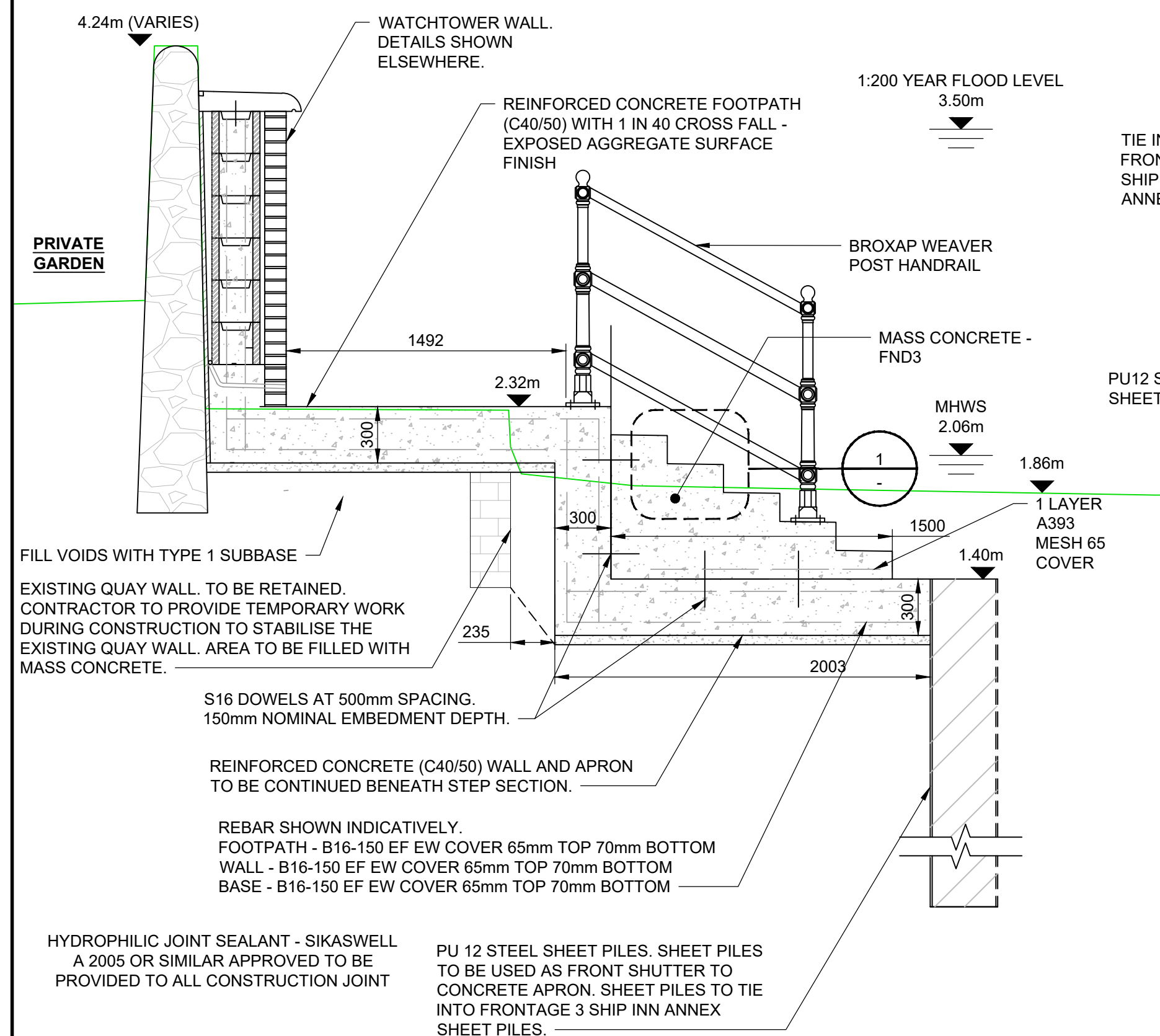
SHEET NUMBER
LANG-ACM-ZZ-F3-DR-ZZ-051305

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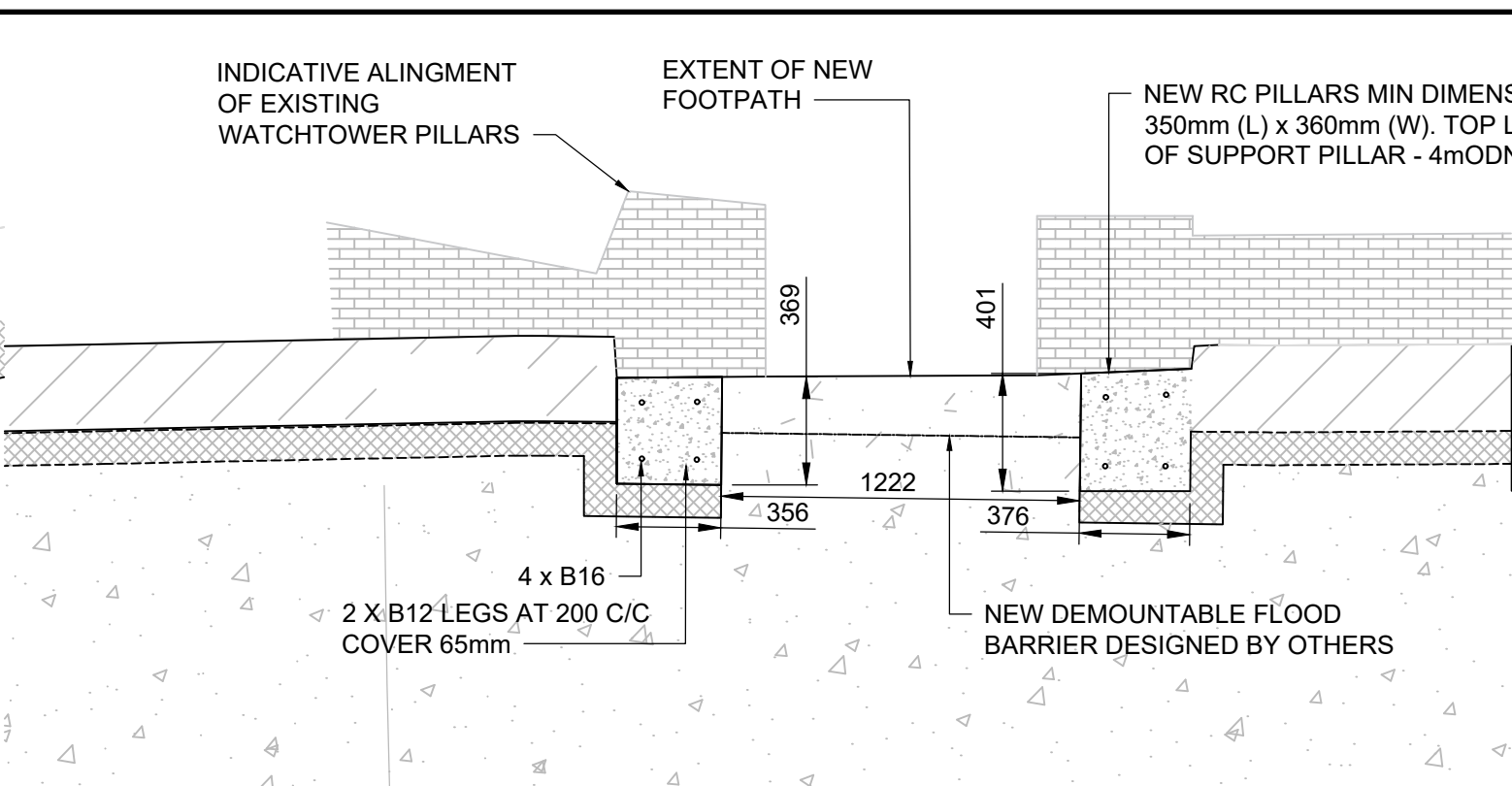




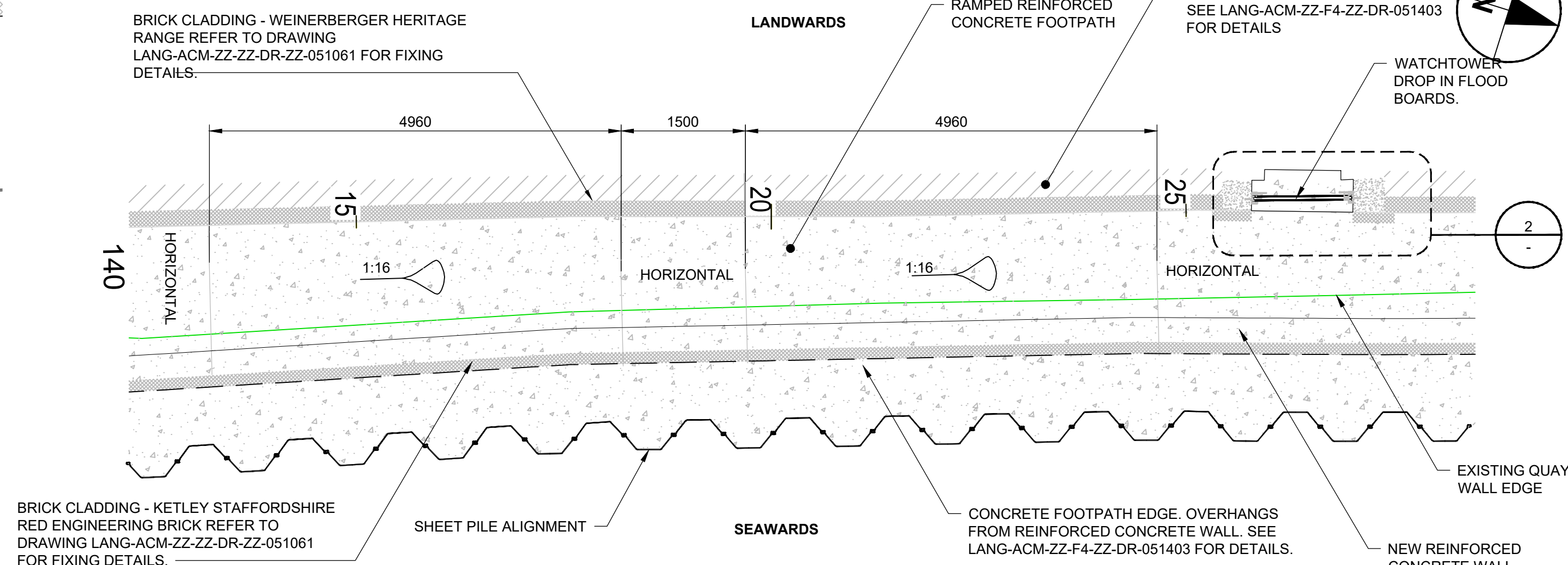
A	WATCHTOWER ACCESS STEPS PLAN VIEW	1:25
	CHAINAGE 0-5	
	LENGTH 5m	



B	WATCHTOWER ACCESS STEPS CROSS SECTION	1:25
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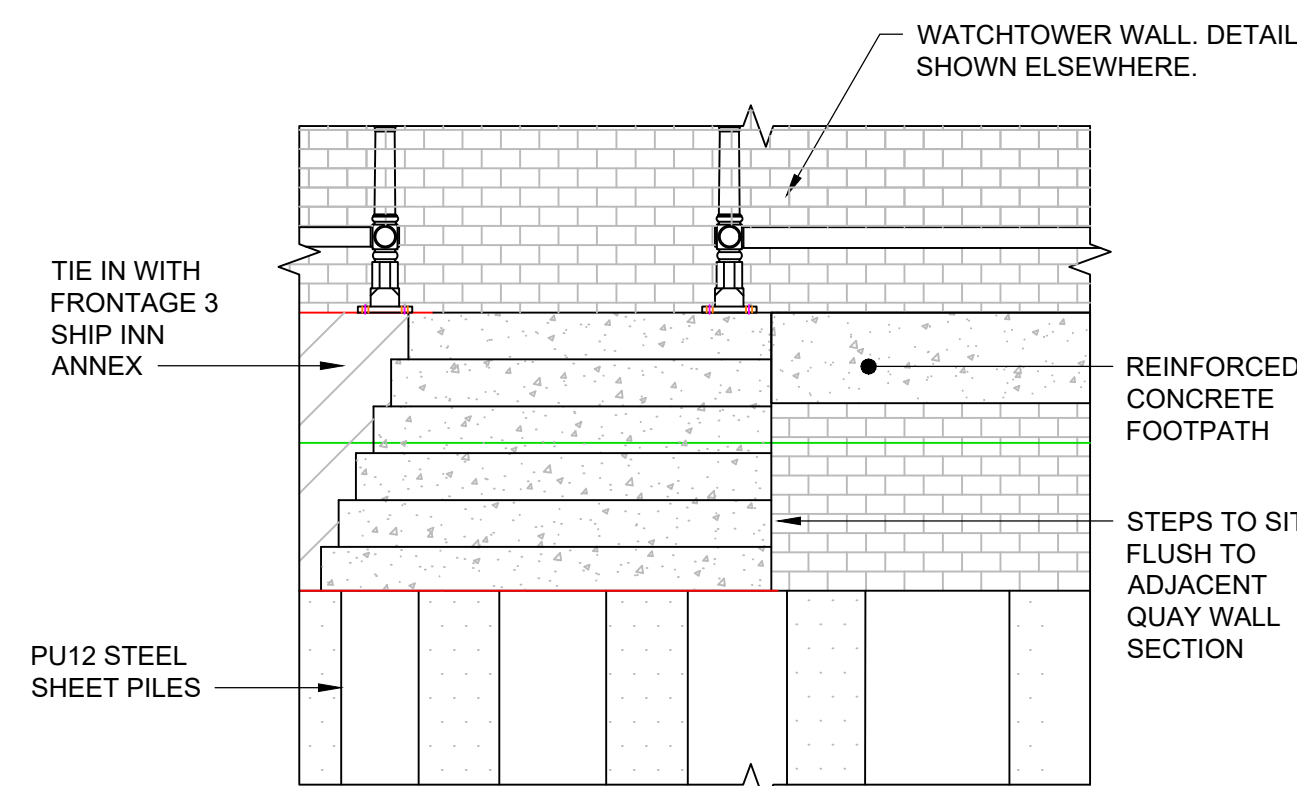
2 | WATCHTOWER SUPPORT PILLAR DETAIL



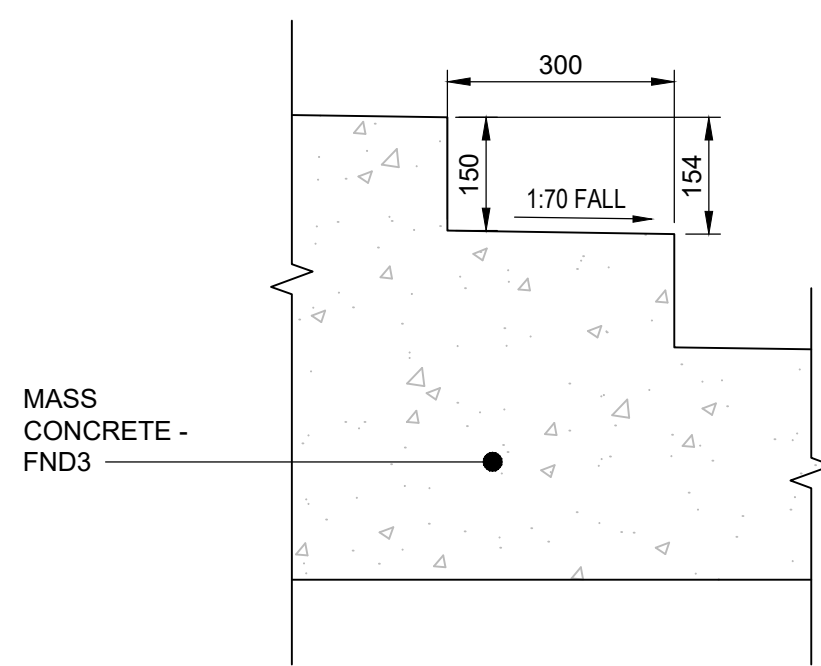
D | WATCHTOWER ACCESS RAMP PLAN VIEW

CHAINAGE 13-25

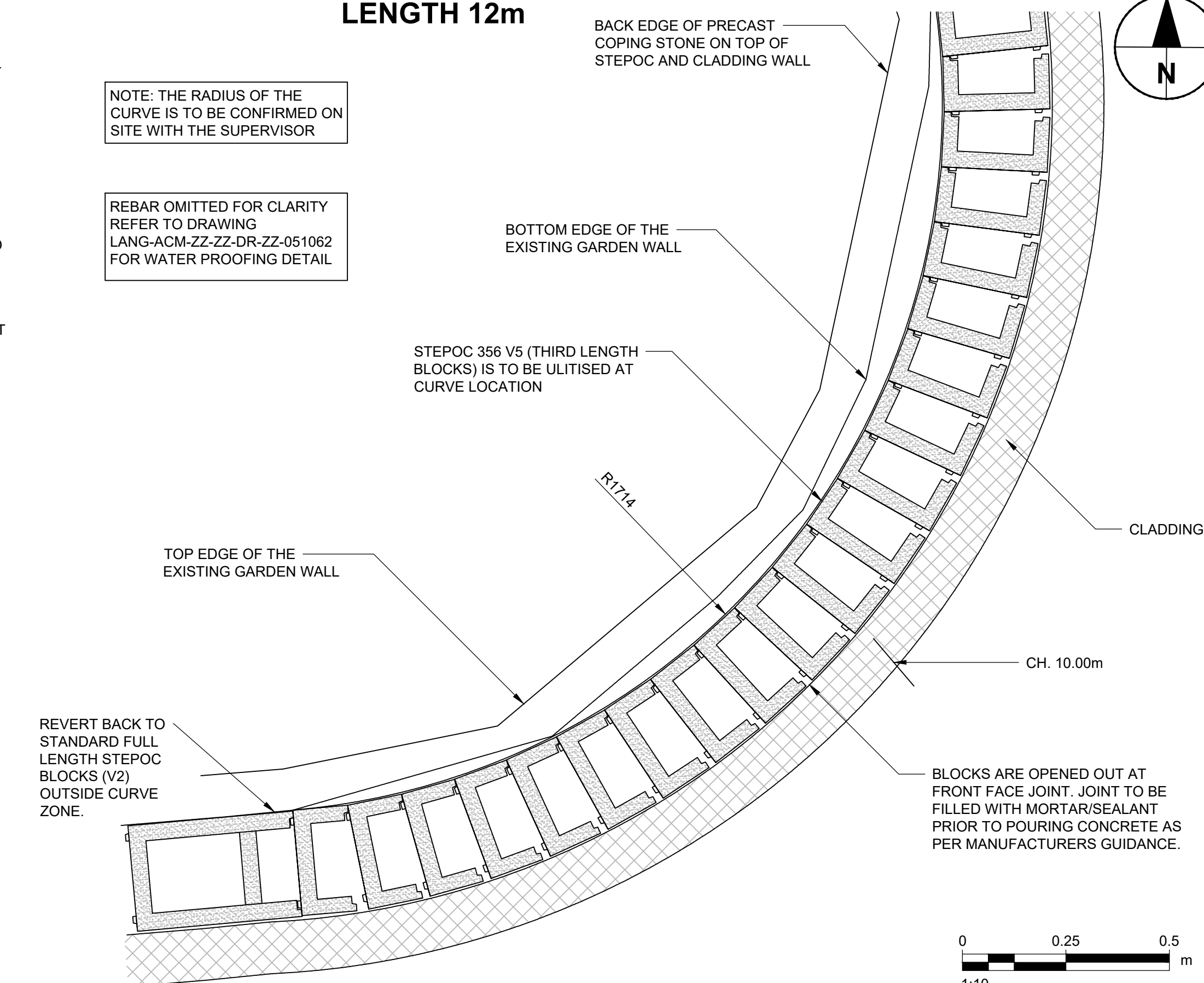
LENGTH 12m



C	STEP ELEVATION
	1:10



1 | STEP DETAIL



E	WATCHTOWER STOPLOC WALL PLAN VIEW	1
	CHAINAGE 8-12	
	LENGTH 4m	

SAFETY HEALTH AND ENVIRONMENT INFORMATION PLEASE REFER TO LANG-ACM-ZZ-F4-DR-ZZ-011401 FOR SHE INFORMATION.

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH
COUNCIL

CONSULTANT

Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
T:
www.aecom.com

NOTES

GENERAL NOTES

1. THIS DOCUMENT IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETRES, ALL CHANGES, LEVELS AND COORDINATES ARE IN METRES, UNLESS DEFINED OTHERWISE.
4. DEFENCE LENGTH/EXTENT SHOWN ARE APPROXIMATE, THE EXACT EXTENT OF THE TYPICAL CROSS SECTION IS TO BE CONFIRMED ON SITE WITH THE SUPERVISOR.
5. EXISTING PATH LEVELS Varies ALONG DEFENCE LENGTH, AND BEACH LEVEL VARIES SPATIALLY AND WITH TIME.
6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE REVISIONS LIST (AS PER ZC-RZ-RZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
7. ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - #011401
MODEL CROSS SECTIONS - #031402
SERVICES DIVERSION - #050602
JOINTS AND WATERPROOFING DETAILS - #051062
HANDRAIL FIXING - #051061
CLADDING DETAILS - #051061
COPING DETAILS - #051800
SHEET PILE CONNECTION DETAIL - #051065
REBAR DETAILS - #031940 AND #081947

DRAWING SPECIFIC NOTES

8. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND PROVIDE FLAP VALVES TO ENSURE DRAINAGE IS MAINTAINED. REFER TO DRAWINGS 011047 FOR DETAILS
9. DEMOUNTABLE BARRIER ARE TO BE DESIGNED BY OTHERS. REFER TO MANUFACTURER'S DRAWING
FC21584-FCI-XX-XXX-DR-X0101 FOR EQUIVALENT DETAILS. BEFORE FABRICATING THE DEMOUNTABLE BARRIER, THE CONTRACTOR SHALL CHECK THE MANUFACTURER'S SPECIFIED OPENING DIMENSIONS AND ALIGNMENT WITH THE NEC SUPERVISOR AND GATE AND GLASS BARRIER MANUFACTURER
10. CONTRACTOR SHALL UTILISE TEMPLATE WHERE PRACTICABLE TO LOCATE FIXING POINTS FROM DEMOUNTABLE BARRIER, TO MINIMISE FIXINGS CLASHING WITH REBARS.
10. SURFACE FINISH TO NCS4 4TH EDITION
UNFORMED CONCRETE (BURIED) - BASIC FINISH
UNFORMED CONCRETE (EXPOSED) - EXPOSED AGGREGATE FINISH
FORMED CONCRETE (CLAUDED) - ORDINARY FINISH
FORMED CONCRETE (EXPOSED) - EXPOSED AGGREGATE FINISH

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	26/02/24	100% Detailed Design
C01	26/02/24	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

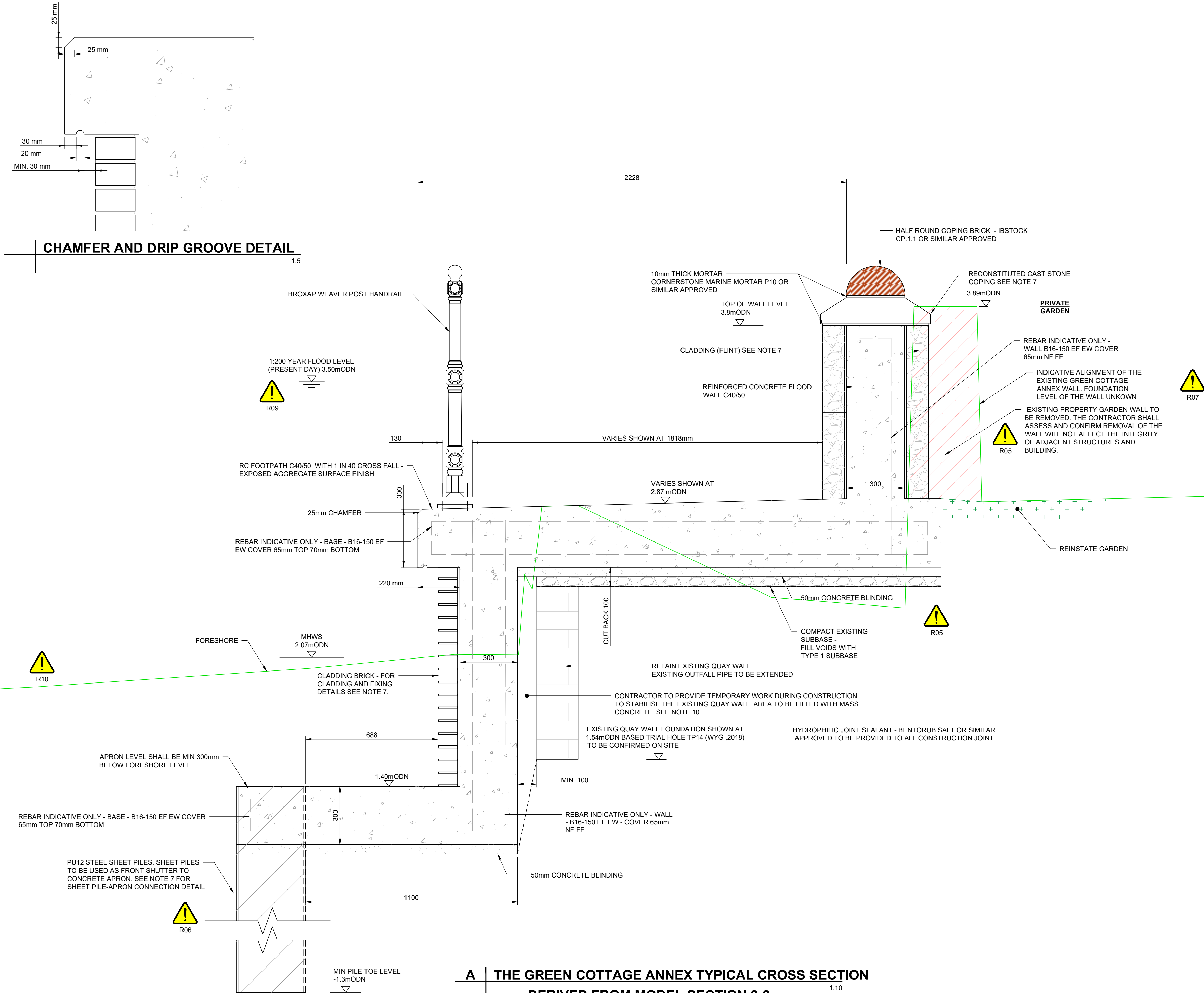
SHEET TITLE

FRONTAGE 4
TYPICAL DETAILS
SHEET 2
WATCHTOWER STEPS

SHEET NUMBER

LANG-ACM-ZZ-F4-DR-ZZ-051404

ISO A1 594mm x 841mm
Project Management Initials: HR
Designer: JScott
Checked: CP
Approved: JScott
Drawn: HR
Revision: C02
Last saved by: COE2/2025-02-03
Filename: C:\pwworking\aecom_us09_uk_2020\0454975\LANG-ACM-ZZ-F4-DR-ZZ-051405



SAFETY HEALTH AND ENVIRONMENT INFORMATION	
PLEASE REFER TO LANG-ACM-ZZ-F4-DR-ZZ-011401 FOR SHE INFORMATION.	

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PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

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 - EXISTING PATH LEVELS VARIES ALONGS DEFENCE LENGTH, AND BEACH LEVEL VARY SPATIALLY AND WITH TIME.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRM (LANG-ACM-ZZ-ZZ-RK-ZZ-000108) FOR ANY IDENTIFIED POTENTIAL RISKS.
 - ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - ##011401
MODEL CROSS SECTIONS - ##031402
SERVICES DIVERSION - ##051411
JOINTS AND WATERPROOFING DETAILS - ##051062
HANDRAIL FIXING - ##051065
CLADDING DETAILS - ##051061
COPING DETAILS - ##051060
SHEET PILE CONNECTION DETAIL - ##051065
REBAR DETAILS - ##081940-081947
- DRAWING SPECIFIC NOTES
- IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND PROVIDE FLAP VALVES TO ENSURE DRAINAGE IS MAINTAINED. REFER TO DRAWING 101047 FOR DETAILS.
 - SURFACE FINISH TO NSCS 4TH EDITION
UNFORMED CONCRETE (BURIED) - BASIC FINISH
UNFORMED CONCRETE (EXPOSED) - EXPOSED AGGREGATE FINISH
FORMED CONCRETE (CLADDED) - ORDINARY FINISH
FORMED CONCRETE (EXPOSED) - EXPOSED AGGREGATE FINISH
 - THE CONTRACTOR SHALL FOLLOW PRE-AGREED REMEDIATION MEASURE IN CASE OF OVERBREAK TO ENSURE STABILITY OF EXISTING STRUCTURE. REFER TO CONSTRUCTION SCOPE.

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
P02	21/01/25	Design Update
C02	21/01/25	Green Cottage Update
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

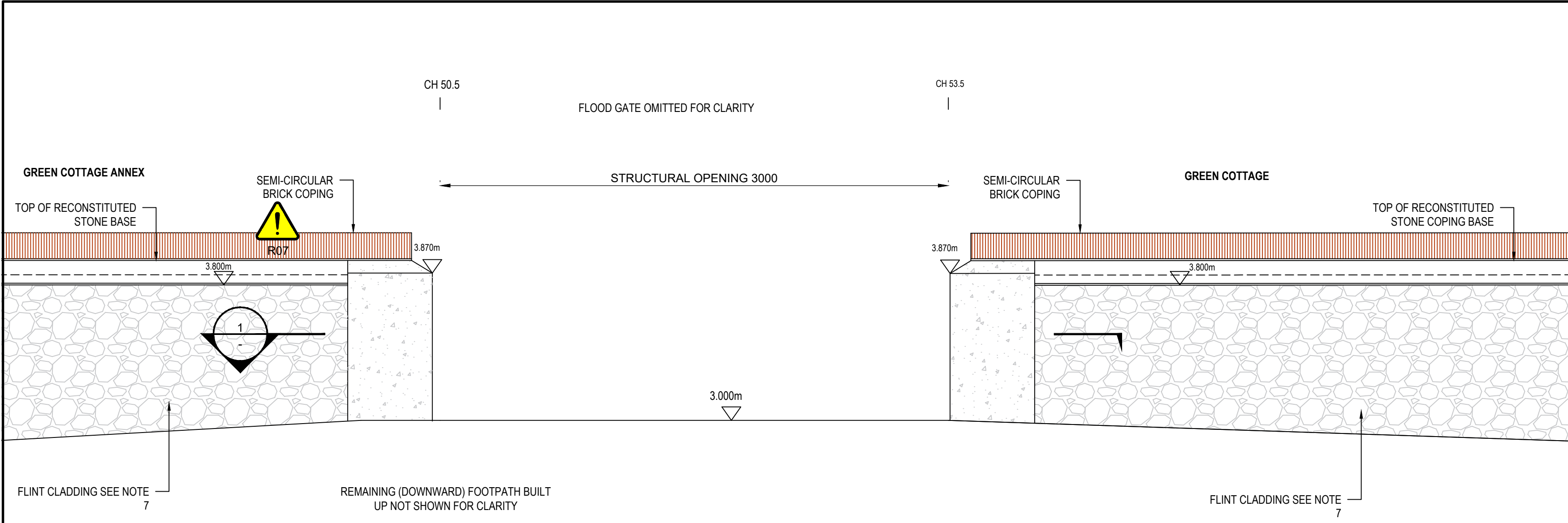
SHEET TITLE

FRONTAGE 4
TYPICAL DETAILS
SHEET 3
GREEN COTTAGE ANNEX

SHEET NUMBER

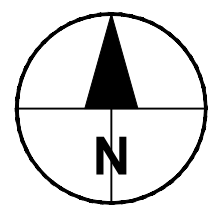
LANG-ACM-ZZ-F4-DR-ZZ-051405

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Filename: C:\pwworking\aecom\us09_uk_2020\0454975\LANG-ACM-ZZ-F4-DR-ZZ-051407
Project Management Initials: HR
Revision: CO2
Designer: HR
Checked: CP
Approved: JScott
Drawn: HR



GREEN COTTAGE ANNEX INTERFACE

1:20



LANDWARDS SIDE
GREEN COTTAGE

NEW FLOOD GATE DESIGNED BY
MANUFACTURER. SEE NOTE 8, 9 AND 10

CENTRAL SUPPORT FOR
FLOOD GATE. DESIGNED BY
OTHERS SEE NOTE 8, 9 AND 10.

EXTENT OF REINFORCED
CONCRETE FOOTPATH

REINFORCED CONCRETE GATE
SUPPORT

TOP OF GATE PILLAR TO BE
FINISHED BY HAND WITH
SLOPE TO MATCH SLOPE OF
ADJACENT COPING STONE.

REINFORCED CONCRETE WALL
R07

GREEN COTTAGE ANNEX

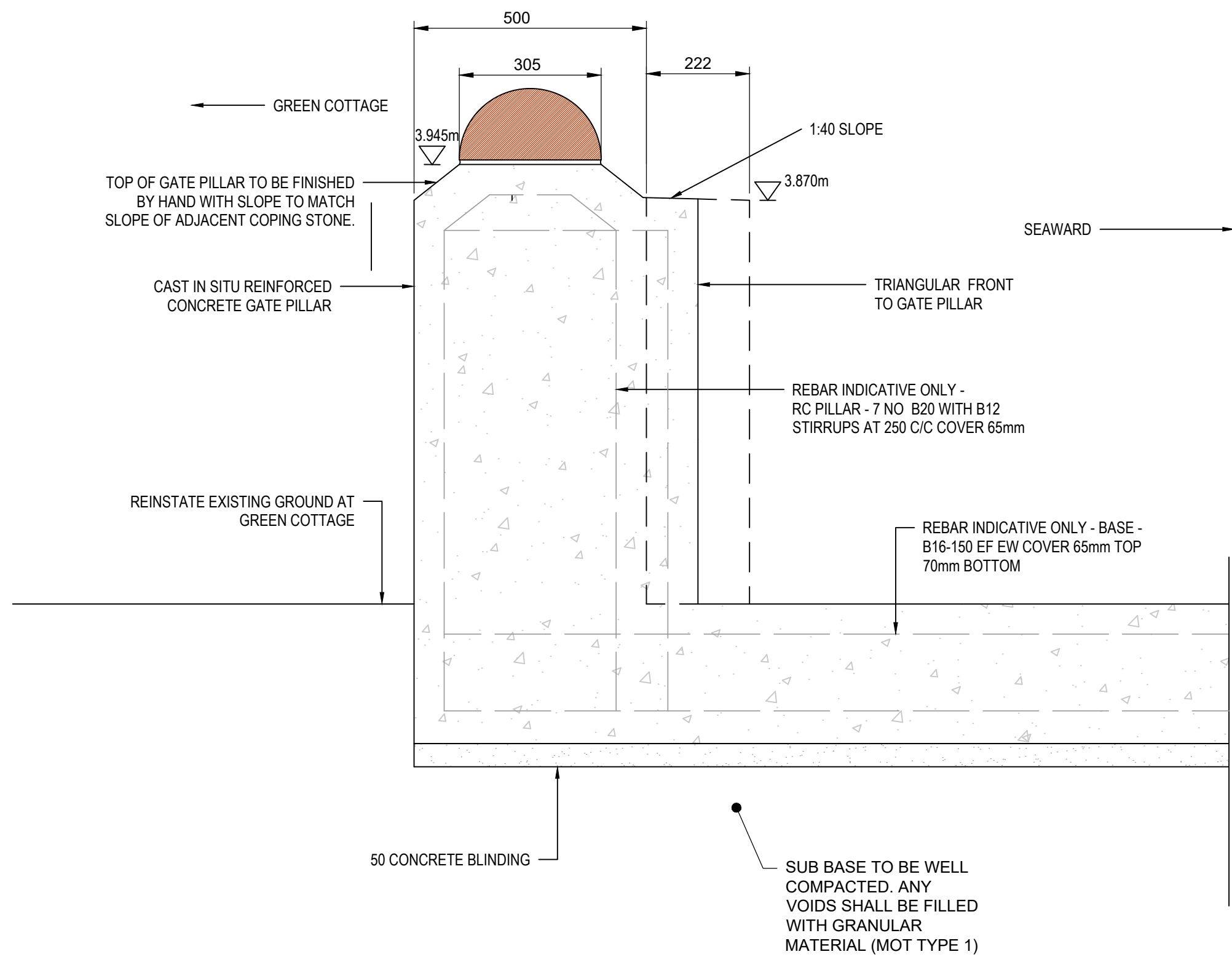
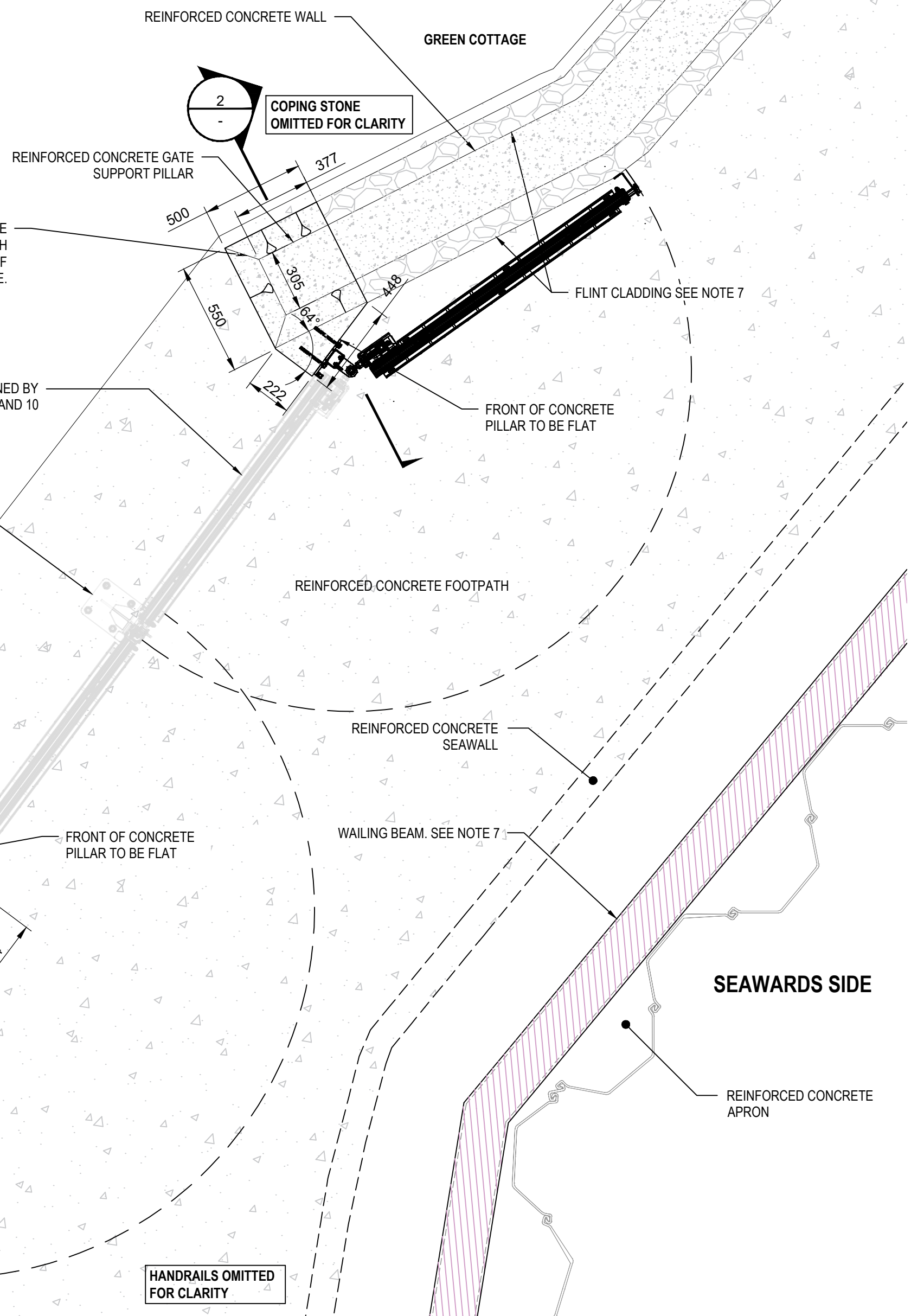
COPING STONE
OMITTED FOR CLARITY

CROSS SECTION 1-1

1:20

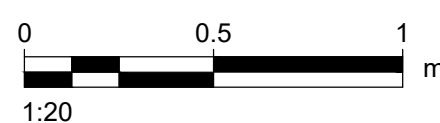
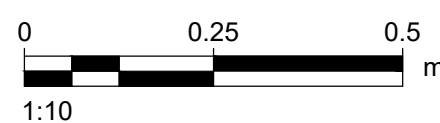
SAFETY HEALTH AND ENVIRONMENT INFORMATION

PLEASE REFER TO LANG-ACM-ZZ-F4-DR-ZZ-011401 FOR
SHE INFORMATION.



CROSS SECTION 2-2

1:10



AECOM

PROJECT

Langstone Flood and
Coastal Erosion Risk
Management Scheme

CLIENT

HAVANT BOROUGH
COUNCIL

CONSULTANT

Midpoint, Alençon Link,
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NOTES

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6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER (LANG-ACM-ZZ-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
7. ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - ##011401
MODEL CROSS SECTIONS - ##031402
SERVICES DIVERSION - ##051411
JOINTS AND WATERPROOFING DETAILS - ##051062
HANDRAIL FIXING - ##051065
CLADDING DETAILS - ##051061
COPING DETAILS - ##051060
SHEET PILE CONNECTION DETAIL - ##051065
REBAR DETAILS - ##081940-##081947

DRAWING SPECIFIC NOTES:

8. FLOOD GATE AND GLASS BARRIER ARE TO BE DESIGNED BY MANUFACTURER. REFER TO MANUFACTURER'S DRAWING FC21584-FCI-XX-XX-DR-X-0203 FOR DETAILS.
9. BEFORE FABRICATING THE GATE AND GLASS BARRIER, THE CONTRACTOR SHALL CONFIRM THE FINAL STRUCTURAL OPENING DIMENSIONS AND ALIGNMENT WITH THE NEC SUPERVISOR AND GATE AND GLASS BARRIER MANUFACTURER.
10. CONTRACTOR SHALL UTILISE TEMPLATE WHERE PRACTICABLE TO LOCATE FIXING POINTS FROM GATE, TO MINIMISE FIXINGS CLASHING WITH REBARS.
11. SURFACE FINISH TO NSCS 4TH EDITION
UNFORMED CONCRETE (BURIED) - BASIC FINISH
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FORMED CONCRETE (CLADDED) - ORDINARY FINISH
FORMED CONCRETE (EXPOSED) - EXPOSED AGGREGATE FINISH

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
P02	21/01/25	Design Update
C02	21/01/25	Green Cottage Update
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

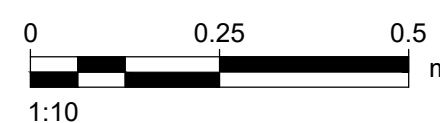
SHEET TITLE

FRONTAGE 4
TYPICAL DETAILS
SHEET 5
GREEN COTTAGE GATE

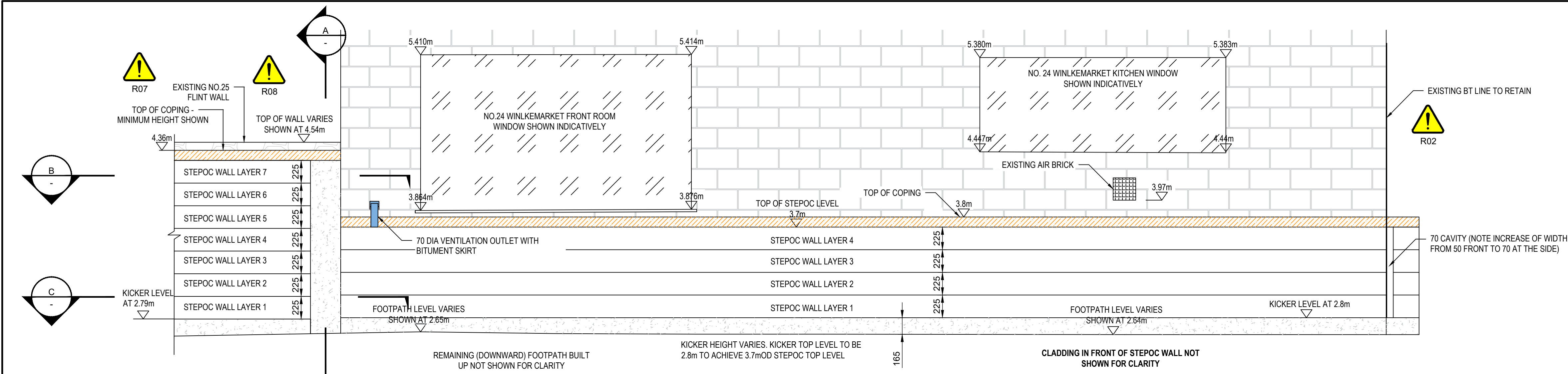
SHEET NUMBER

LANG-ACM-ZZ-F4-DR-ZZ-051407

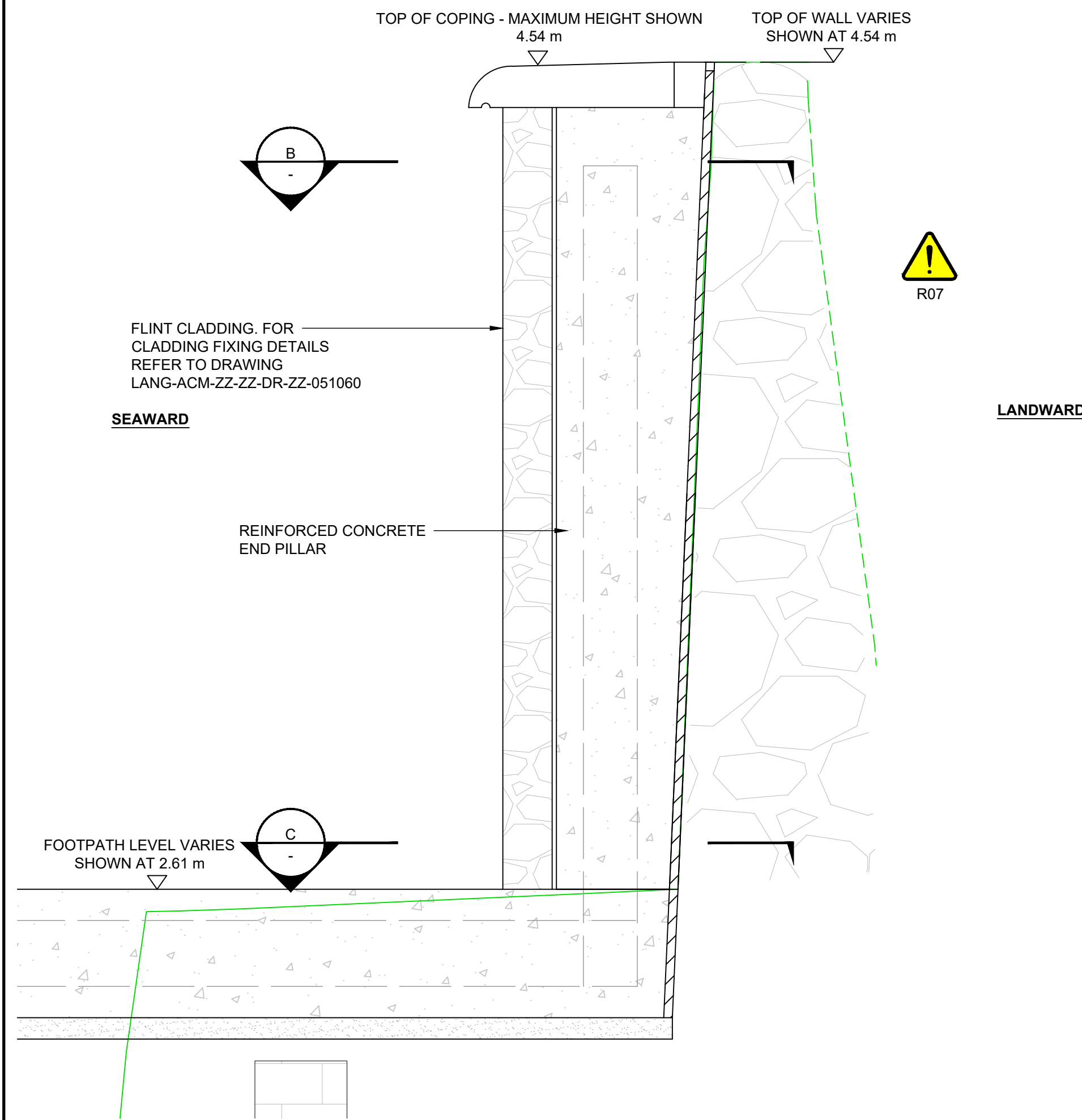
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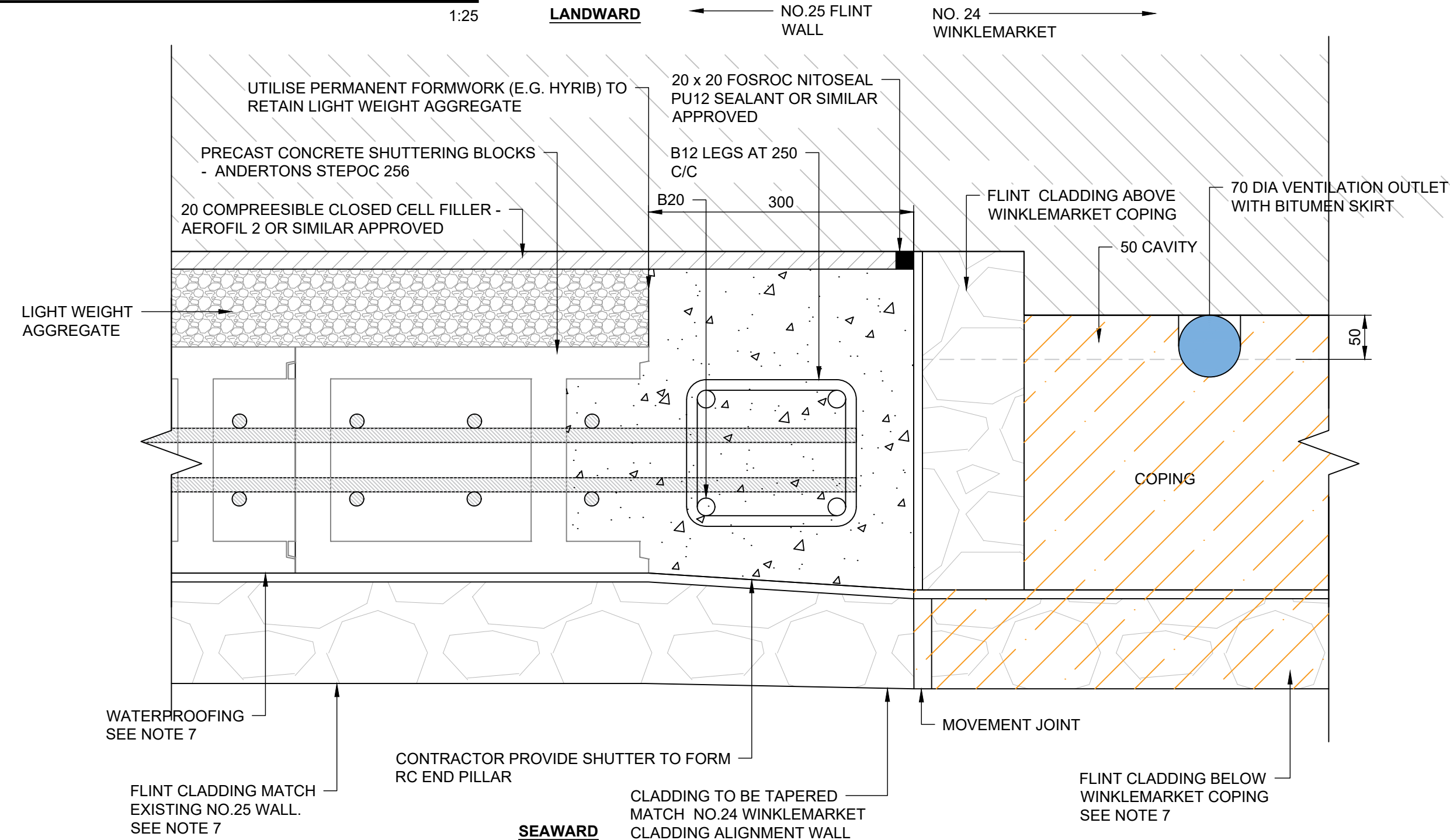
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Project Management Initials: Designer: HR
Checked: CP
Approved: JScott
Drawn: KG
Revision: C01
Last saved by: CLEMENCEARCHIE(2026-01-16)
Last Plotted: 2026-01-16
Filename: C:\Users\HAY_ClemenceA\OneDrive - Havant Borough Council\Desktop\LANG-ACM-ZZ-F4-DR-ZZ-051410(For Planning)-1



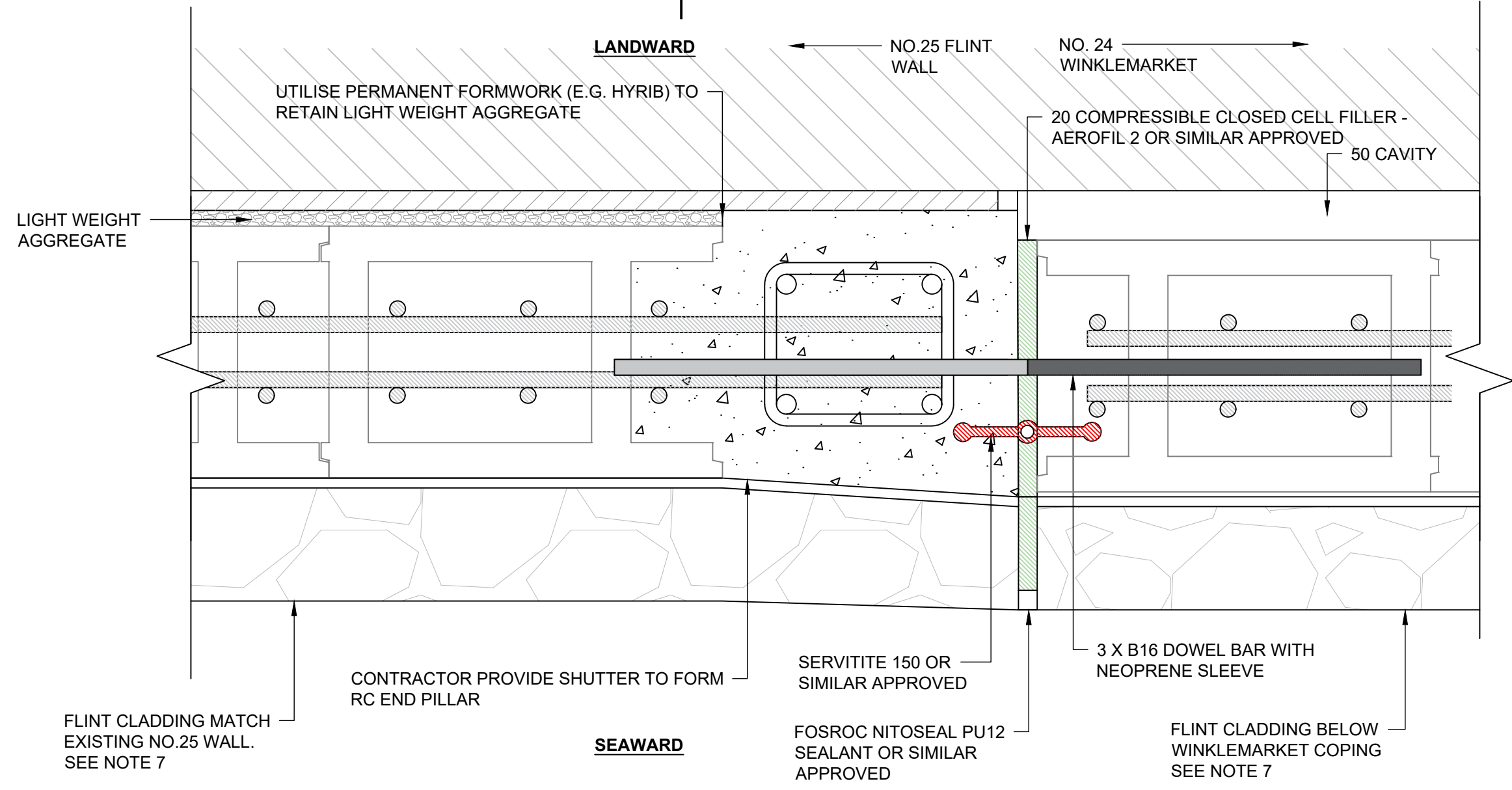
1 NO. 25 FLINT WALL AND NO. 25 WINKLEMARKET INTERFACE ELEVATION



2 CROSS SECTION A-A

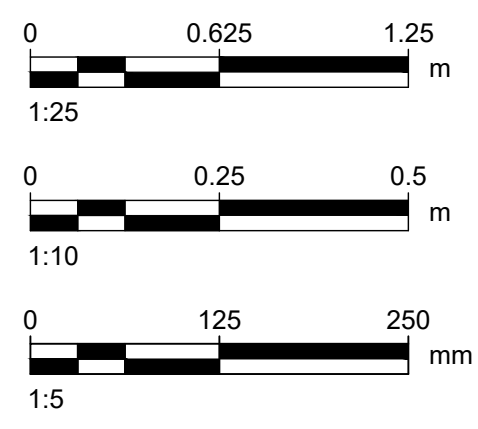


3 CROSS SECTION B-B



4 CROSS SECTION C-C

SAFETY HEALTH AND ENVIRONMENT INFORMATION	
PLEASE REFER TO LANG-ACM-ZZ-F4-DR-ZZ-011401 FOR SHE INFORMATION.	



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PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
T:
www.aecom.com

NOTES

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7. ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - ##011401
MODEL CROSS SECTIONS - ##031402
SERVICES DIVERSION - 051411
JOINTS AND WATERPROOFING DETAILS - ##051062
HANDRAIL FIXING - ##051065
CLADDING DETAILS - ##051061
COPING DETAILS - ##051060
SHEET PILE CONNECTION DETAIL - ##051065
REBAR DETAILS - ##081940-##081947

DRAWING SPECIFIC NOTES

8. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND PROVIDE FLAP VALVES TO ENSURE DRAINAGE IS MAINTAINED. REFER TO DRAWING 011047 FOR DETAILS.
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ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	08/02/24	Construction Issue
C01	08/02/24	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

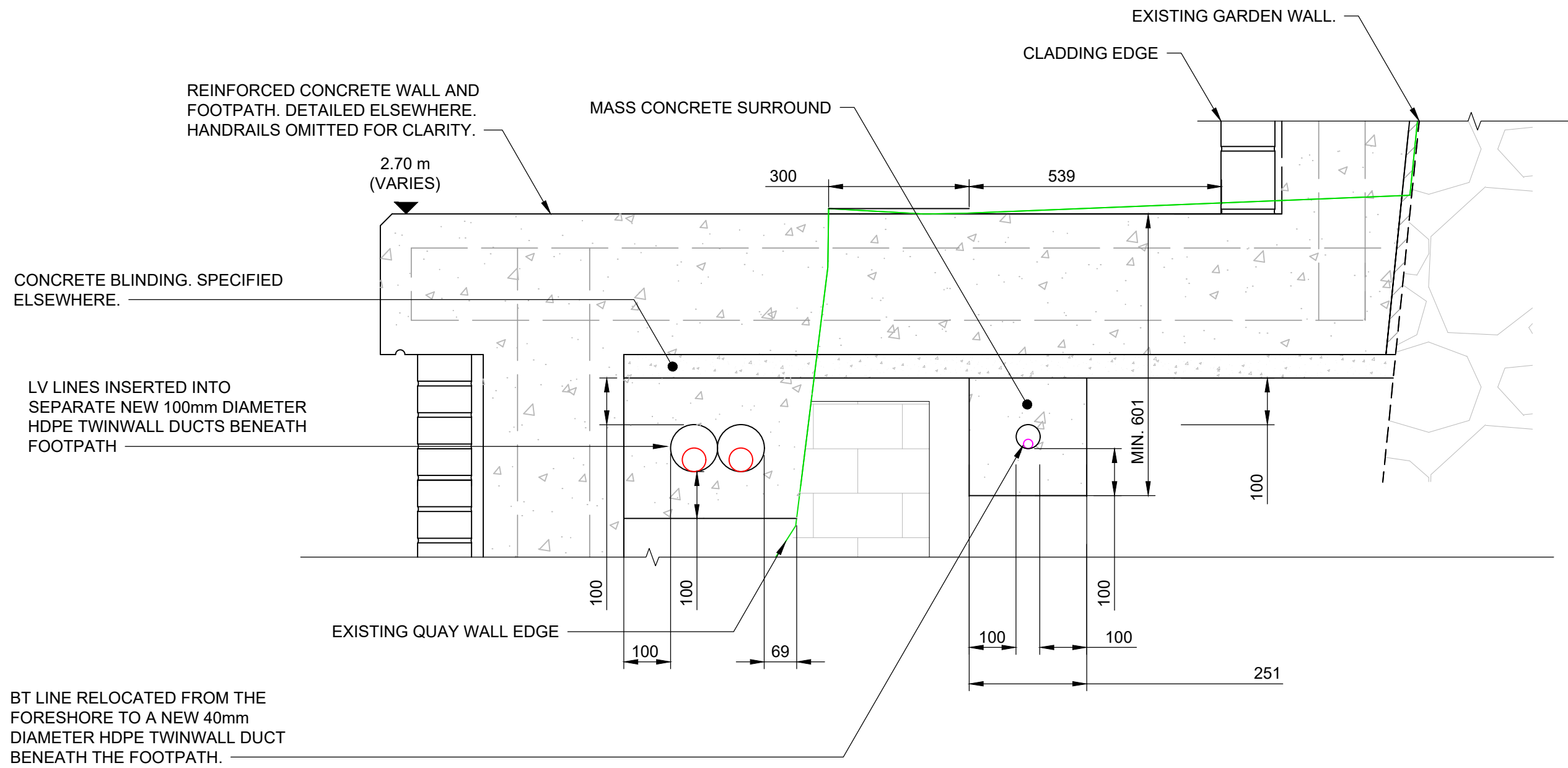
SHEET TITLE

FRONTAGE 4
TYPICAL DETAILS
SHEET 8
WINKLEMARKET AND FLINT WALL TIE IN

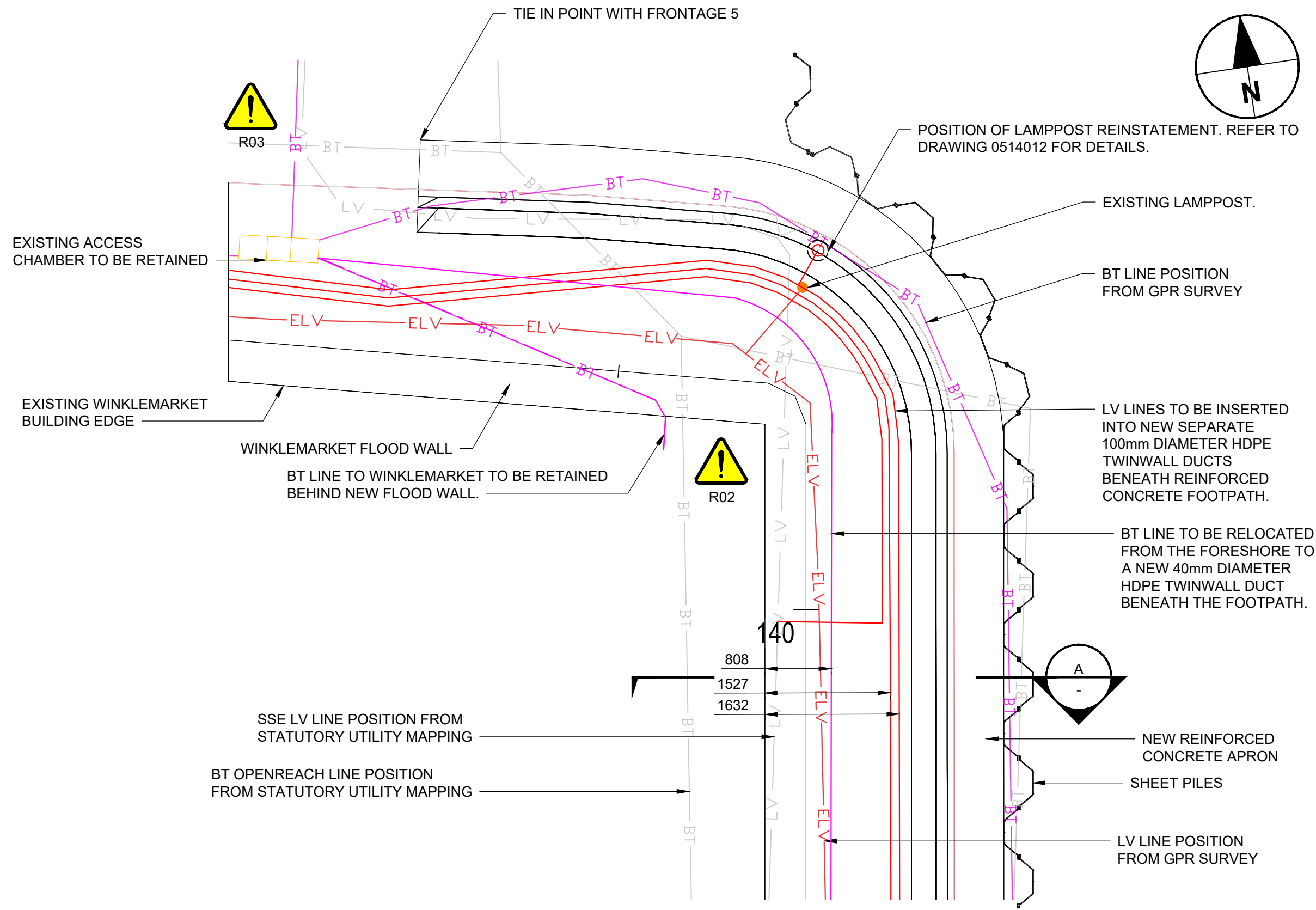
SHEET NUMBER

LANG-ACM-ZZ-F4-DR-ZZ-051410

ISO A1 594mm x 841mm
Drawn: HR
Approved: JS
Checked: CP
Designer: HR
Project Management Initials: C01
Revision:
Last saved by: KEVIN GABB(2024.03.12) Last Plotted: 2024.03.13
Filename: C:\pwworking\aecom_uk_2020\0454973\LANG-ACM-UT-F4-DR-ZZ-051411

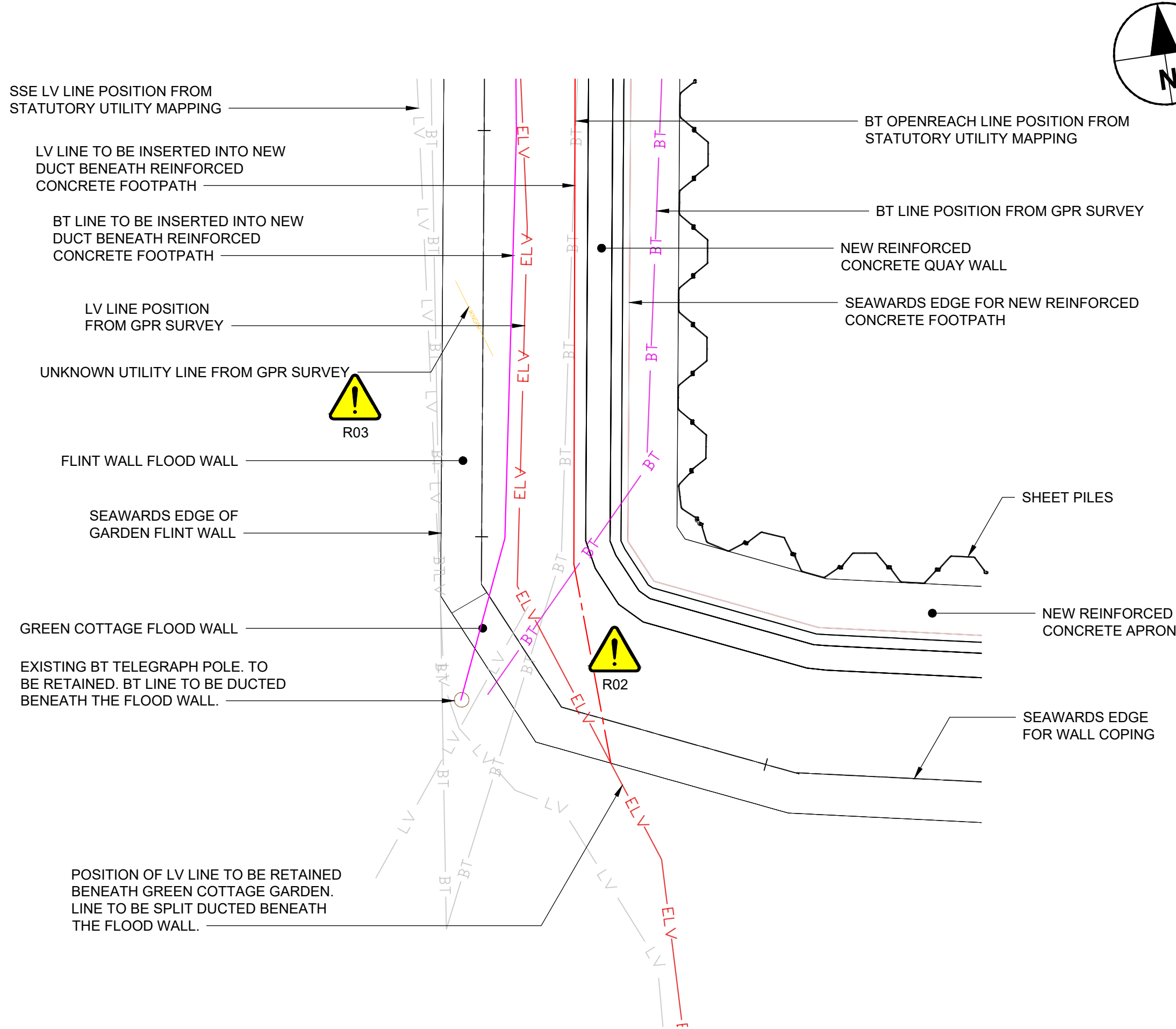


A | FRONTAGE 4 DUCT TYPICAL DETAIL



B | WINKLEMARKET UTILITY PROVISIONS - PLAN

1:50

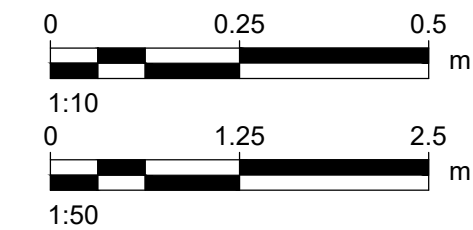


C | GREEN COTTAGE UTILITY PROVISIONS - PLAN

1:50

SAFETY HEALTH AND ENVIRONMENT INFORMATION

PLEASE REFER TO LANG-ACM-ZZ-F4-DR-ZZ-011401 FOR SHE INFORMATION.



AECOM

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

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CONSULTANT

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- ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - ##011401
MODEL CROSS SECTIONS - ##031402
TYPICAL DETAILS - ##051403 TO ##051410
LAMPOST REINSTATEMENT ##051412

DRAWING SPECIFIC NOTES:

- ENSURE ALL EXISTING UTILITIES ARE POSITIVELY IDENTIFIED ON SITE PRIOR TO ANY WORKS COMMENCING.
- ALL DUCTING AND CABLES TO BE LAID IN ACCORDANCE WITH THE CURRENT EDITION OF NJUG IN CONJUNCTION WITH THE CURRENT EDITION OF HAUJ (UK).
- SAND TO BE TO CLAUSE 503.3 (ii) TABLE 5/4.
- CBGM TO CL 821 OR CL. 822 SHALL BE C5/6 WITH REFERENCE TO BS 9227.

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

SHEET TITLE

FRONTAGE 4 TYPICAL DETAILS
SHEET 9
SERVICE PROVISIONS

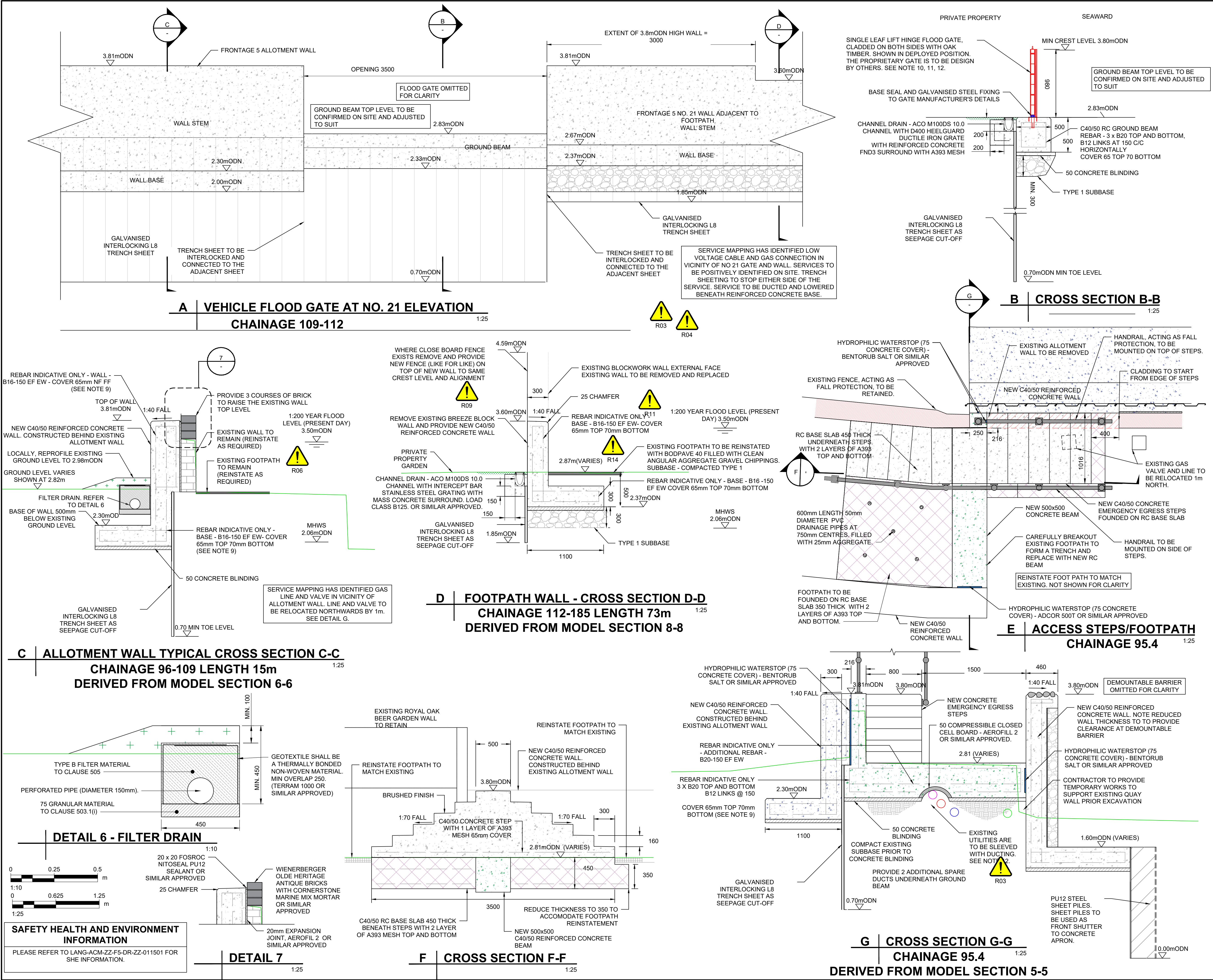
SHEET NUMBER

LANG-ACM-UT-F4-DR-ZZ-051411

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Project Management Initials: Revision: Designer: HR Checked: CP Approved: JScott Drawn: HR
Last saved by: RIDLERW(2025-02-07) Last Plotted: 2025-02-07
Filename: C:\pwworking\aecom_us09_uk_2020\dd454973\LANG-ACM-ZZ-F5-DR-ZZ-051505



PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

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 6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER (LANG-ACM-ZZ-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
 7. ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - # 011501
MODEL CROSS SECTIONS - # 031502 AND # 031503
DRAINAGE - # 011051, # 021052 AND # 051054
STANDARD DETAILS - # 051060 TO # 051065
REBAR DETAILS - # 081951 TO # 081956
 8. DRAWING SPECIFIC NOTES
 9. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND PROVIDE FLAP VALVES TO ENSURE DRAINAGE IS MAINTAINED. REFER TO DRAWING 050501 FOR DETAILS.
 10. FLOOD GATE AND GLASS BARRIER ARE TO BE DESIGNED BY MANUFACTURER. REFER TO MANUFACTURER'S DRAWING FC21584-FOI-XX-XX-DR-X-0102 FOR DETAILS.
 11. BEFORE FABRICATING THE GATE AND GLASS BARRIER, THE CONTRACTOR SHALL CONFIRM THE FINAL STRUCTURAL OPENING DIMENSIONS AND ALIGNMENT WITH THE DESIGNER AND GATE AND GLASS BARRIER MANUFACTURER.
 12. CONTRACTOR SHALL UTILISE TEMPLATE WHERE PRACTICABLE TO LOCATE FIXING POINTS FROM GATE AND GLASS BARRIER, TO MINIMISE FIXINGS CLASHING WITH REBAR.
 13. POSITION OF SERVICES HAS BEEN INFORMED BY A COMBINATION OF GPR SURVEY DATA AND INFORMATION PROVIDED BY UTILITY COMPANIES. SERVICES ARE TO BE POSITIVELY IDENTIFIED ON SITE PRIOR TO WORKS COMMENCING. WHERE POSSIBLE, SERVICES ARE TO BE IN SEPARATE DUCTS. SEALANT TO BE PROVIDED IN AND AROUND DUCTS.
 14. SURFACE FINISH:
UNFORMED CONCRETE (BURIED) - BASIC FINISH
UNFORMED CONCRETE (EXPOSED) - EXPOSED AGGREGATE FINISH
CONCRETE STEPS - BRUSHED FINISH
FORMED CONCRETE (CLADDED) - ORDINARY FINISH
FORMED CONCRETE (EXPOSED) - EXPOSED AGGREGATE FINISH

ISSUE/REVISION

PO1	21/11/23	100% Detailed Design
PO2	09/02/24	100% Detailed Design
CO1	09/02/24	Construction Issue
PO3	04/02/25	No 21. Update
CO2	04/02/25	No 21. Update
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

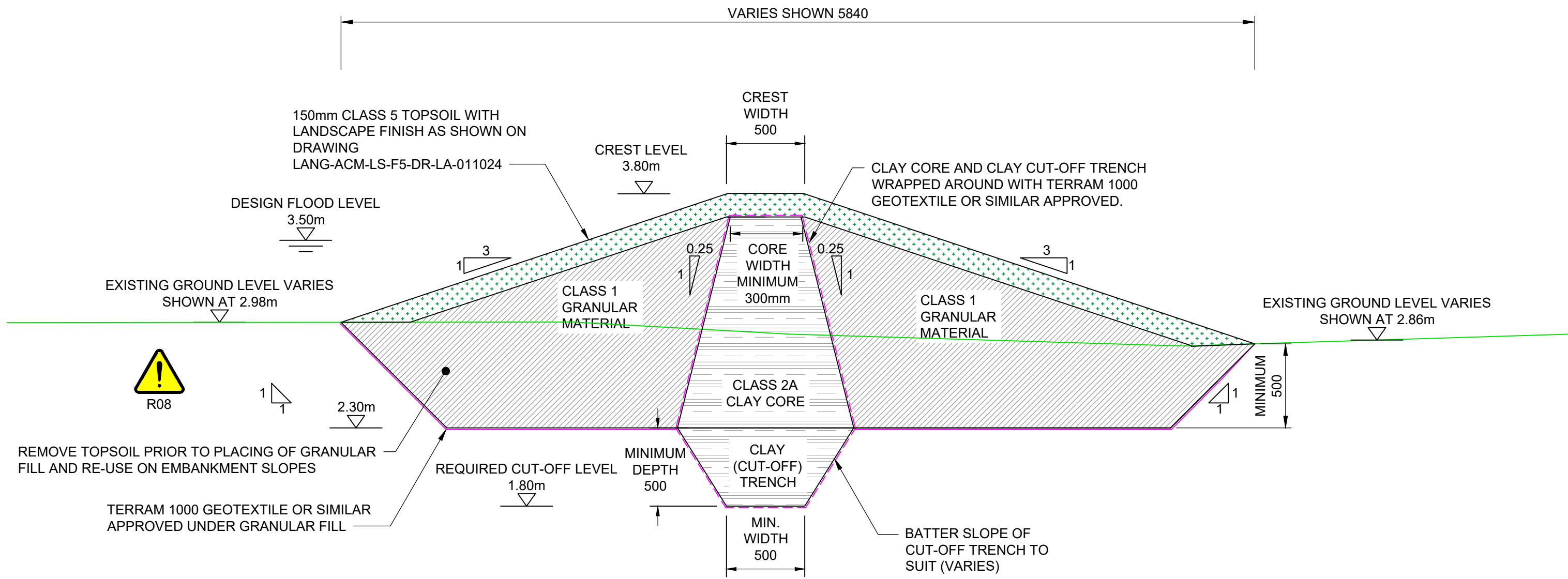
SHEET TITLE

FRONTAGE 5
TYPICAL DETAILS
SHEET 2
ROYAL OAK NORTH AND ALLOTMENT

SHEET NUMBER

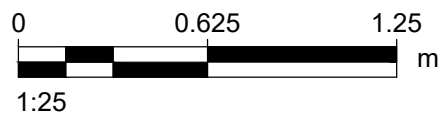
LANG-ACM-ZZ-F5-DR-ZZ-051505

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A | EARTH EMBANKMENT TYPICAL CROSS SECTION NO VEHICLE ACCESS
CHAINAGE 185-221, LENGTH 36m
DERIVED FROM MODEL CROSS SECTION 10-10

SAFETY HEALTH AND ENVIRONMENT INFORMATION
PLEASE REFER TO LANG-ACM-ZZ-F5-DR-ZZ-011501 FOR SHE INFORMATION.



PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

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NOTES

- GENERAL NOTES
- THIS DOCUMENT IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
 - DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
 - ALL DIMENSIONS IN MILLIMETRES. ALL CHAINAGES, LEVELS AND COORDINATES ARE IN METRES, UNLESS DEFINED OTHERWISE.
 - DEFENCE LENGTHS SHOWN ARE APPROXIMATE. THE EXACT EXTENT OF THE TYPICAL CROSS SECTION IS TO BE CONFIRMED ON SITE WITH THE SUPERVISOR.
 - EXISTING PATH LEVELS VARIES ALONG DEFENCE LENGTH, AND BEACH LEVEL VARY SPATIALLY AND WITH TIME.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER (LANG-ACM-ZZ-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
 - ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - #011501
MODEL CROSS SECTIONS - #031502 AND #031503

- DRAWING SPECIFIC NOTES:
- THERE ARE NO DRAWING SPECIFIC NOTES

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

SHEET TITLE

FRONTAGE 5
TYPICAL DETAILS
SHEET 3
EMBANKMENT

SHEET NUMBER

LANG-ACM-ZZ-F5-DR-ZZ-051506

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