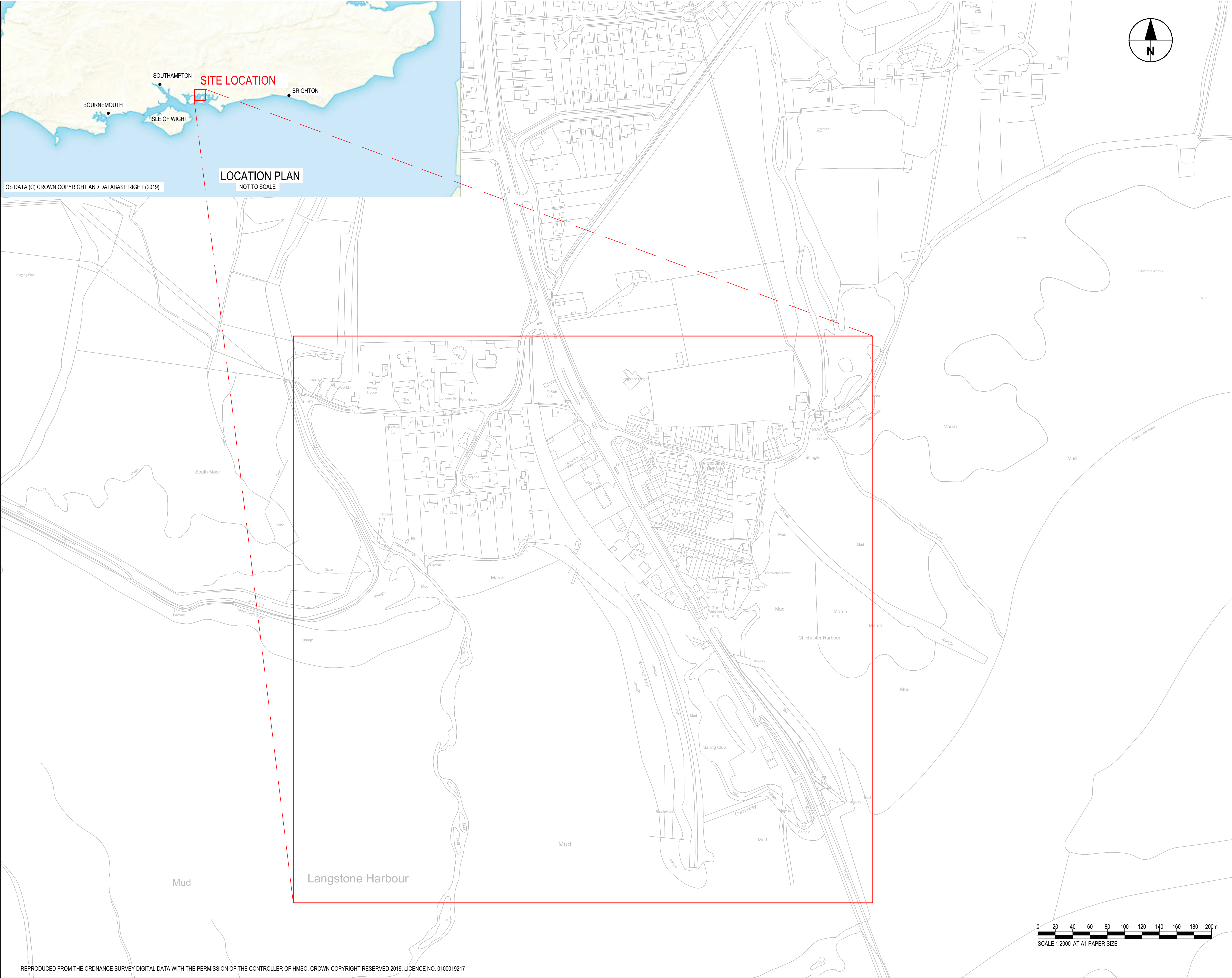


Appendix A Outline Design Drawings



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

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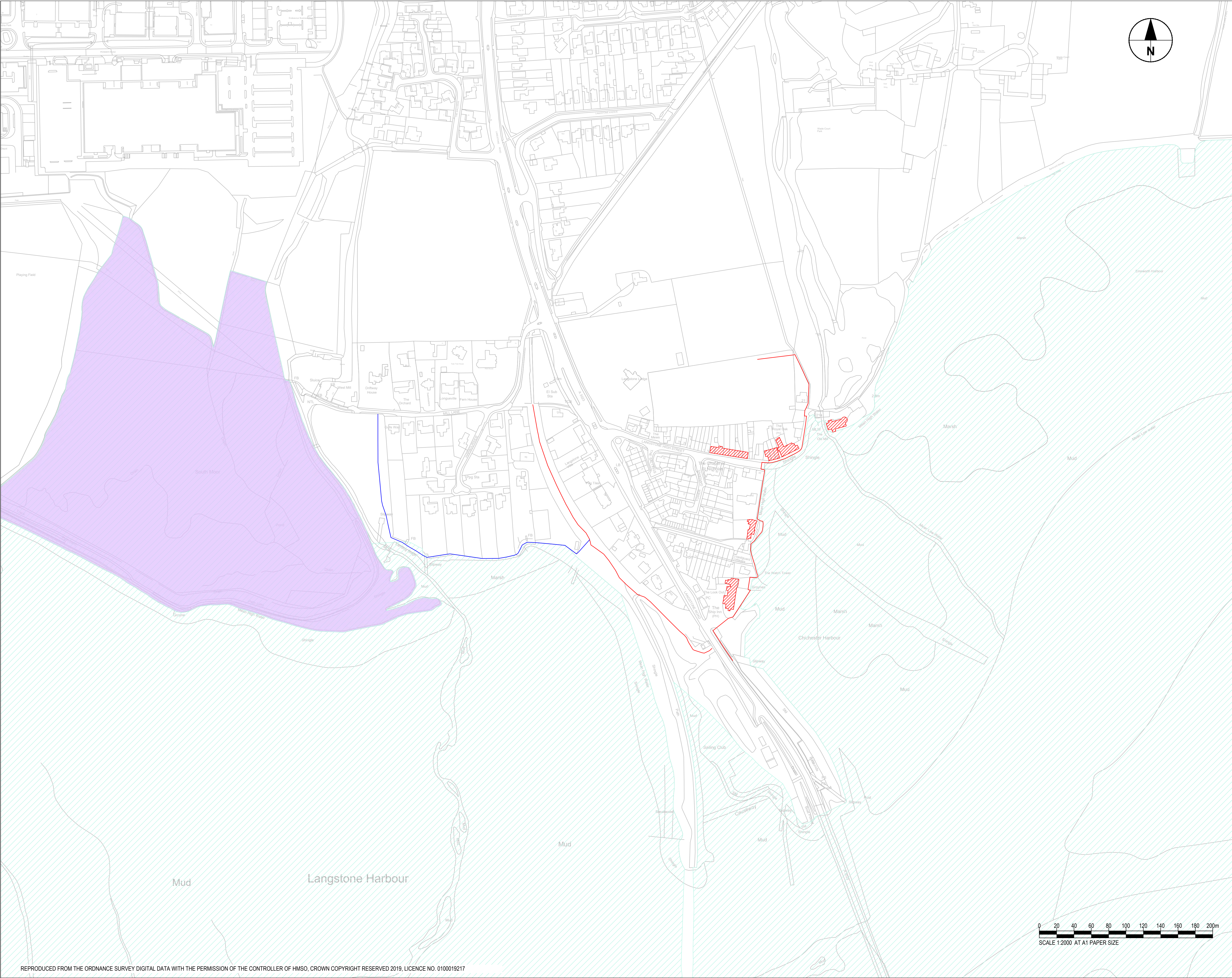
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NOT FOR CONSTRUCTION

DRAFT ISSUE	BO	EI	16/09/19	P1
Revision Details	By	Check	Date	Suffix
Purpose of issue				
FOR INFORMATION				
Client				
EASTERN SOLENT COASTAL PARTNERSHIP				
Project Title				
OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME				
Drawing Title				
SITE LOCATION PLAN				
Designed	Drawn	Checked	Approved	Date
BO	BO	EI	PNJ	16/09/19
AECOM Internal Project No.				Suitability
60578525				S2
Scale @ A1				Zone
1:2000				+
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Drawing Number				Rev
LNST-ACM-XX-XX-DR-CE-01001				P1



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

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LEGEND

- GRADE II LISTED BUILDINGS
- SAC / SPA / SSSI / RAMSAR
- SPA / SSSI / RAMSAR
- CORE FLOOD DEFENCE SCHEME ALIGNMENT
- ADDITIONAL FLOOD DEFENCE SCHEME ALIGNMENT

NOT FOR CONSTRUCTION

DRAFT ISSUE	BO	EI	16/09/19	P1
Revision Details	By	Check	Date	Suffix
Purpose of issue	FOR INFORMATION			
Client	EASTERN SOLENT COASTAL PARTNERSHIP			
Project Title	OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME			
Drawing Title	HERITAGE AND ENVIRONMENT PLAN			
Designed	Drawn	Checked	Approved	Date
BO	BO	EI	PNJ	16/09/19
AECOM Internal Project No.			Suitability	
60578525			S2	
Scale @ A1			Zone	
1:2000			+	
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Drawing Number				Rev
LNST-ACM-XX-XX-DR-CE-01002				P1



X-Y COORDINATES OF EACH INTERSECTION BETWEEN CHAINAGE LINE AND SECTION

ODU CROSS SECTION	X-COORDINATE	Y-COORDINATE
1A	471470	104880
1B-1	471540	104790
1B-2	471620	104790
2B-1	471670	104880
2B-2	471810	104710
3B-1	471870	104680
3B-2	471860	104700
3B-3	471870	104710
3D TO 3E-1	471890	104740
3D TO 3E-2	471900	104760
3F TO 3H-1	471910	104770
3F TO 3H-2	471910	104820
3F TO 3H-3	471910	104850
3K	471950	104900
3L-1	471960	105000
3L-2	471940	105020

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5. CROSS SECTIONS SHOWN ON DRAWINGS LNST-ACM-XX-XX-DR-CE-03001 TO 03005.

LEGEND

CORE FLOOD DEFENCE SCHEME ALIGNMENT

ADDITIONAL FLOOD DEFENCE SCHEME ALIGNMENT

NOT FOR CONSTRUCTION

DRAFT ISSUE

BO

EI

16/09/19

P1

Revision Details

By

Check

Date

Suffix

Purpose of Issue

FOR INFORMATION

Client

EASTERN SOLENT COASTAL PARTNERSHIP

Project Title

OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME

Drawing Title

CHAINAGE PLAN

Designed

GB

Drawn

BO

Checked

EI

Approved

PNJ

Date

16/09/19

AECOM Internal Project No.

60578525

Suitability

S2

Scale @ A1

1:1000

Zone

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Drawing Number

LNST-ACM-XX-XX-DR-CE-02001

Rev

P1



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Notes

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3. All dimensions in millimetres. All changes, levels and coordinates are in metres unless defined otherwise.

4. This drawing is to be read in conjunction with the project health & safety file for any identified potential risks.

5. Defence lengths shown are approximate.

6. Flood gates could alternatively be stoplogs. To be determined at detailed design.

7. Defence alignment drawn using a combination of aerial and mastermap data.

8. Cross sections shown on drawings INST-ACM-XX-XX-DR-CE-03001 to 03005.

9. Identify all existing drainage across flood defence alignment and seal or provide flap valves. Ensure drainage is maintained.

New Flood Defence Structure Type

Earth Embankment

OR

Flood Walls (including flip-up barrier)

Flood Gates

Boardwalk

NOT FOR CONSTRUCTION

DRAFT ISSUE

BO

EI

16/09/19

P1

Revision Details

By

Check

Date

Suffix

Purpose of Issue

FOR INFORMATION

Client

EASTERN SOLENT COASTAL PARTNERSHIP

Project Title

OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION MANAGEMENT SCHEME

Drawing Title

GENERAL ARRANGEMENT PLAN: CORE FLOOD DEFENCE SCHEME

Designed

GB

Drawn

BO

Checked

EI

Approved

PNJ

Date

16/09/19

AECOM Internal Project No.

60578525

Suitability

S2

Scale @ A1

1:1000

Zone

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Drawing Number

LNST-ACM-XX-XX-DR-CE-02002

Rev

P1

0100019217

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3. All dimensions in millimetres. All changes, levels and coordinates are in metres unless defined otherwise.

4. This drawing is to be read in conjunction with the project health & safety file for any identified potential risks.

5. Defence lengths shown are approximate.

6. Flood gates could alternatively be stoplogs. To be determined at detailed design.

7. Defence alignment drawn using a combination of aerial and mastermap data.

8. Cross sections shown on drawings LNST-ACM-XX-XX-DR-CE-02001 to 02005.

9. Identify all existing drainage across flood defence alignment and seal or provide flap valves. Ensure drainage is maintained.

NEW FLOOD AND EROSION DEFENCE STRUCTURE TYPE

EARTH EMBANKMENT

CAPITAL REFURBISHMENT

ROCK ARMOUR

CORE FLOOD DEFENCE SCHEME (SEE DRAWING LNST-ACM-XX-XX-DR-CE-02002)

NOT FOR CONSTRUCTION

DRAFT ISSUE	BO	16/09/19	P1
Revision Details	By	Date	Suffix
Purpose of issue	Check		

FOR INFORMATION

Client

EASTERN SOLENT COASTAL PARTNERSHIP

Project Title

OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION MANAGEMENT SCHEME

Drawing Title

GENERAL ARRANGEMENT PLAN: ADDITIONAL FLOOD DEFENCE SCHEME (CONSTRUCTED AFTER CORE SCHEME)

Designed	Drawn	Checked	Approved	Date
CB	BO	EI	PNJ	16/09/19

AECOM Internal Project No.

60578525

Scale @ A1

1:1000

Suitability

S2

Zone

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Drawing Number	Rev
LNST-ACM-XX-XX-DR-CE-02003	P1

Plot Date: 16/09/2019 3:20 PM
File Name: LNST-ACM-XX-XX-DR-CE-02003

FOR CONTINUATION SEE INSET A

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0 10 20 30 40 50 60 70 80 90 100m
SCALE 1:1000 AT A1 PAPER SIZE

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4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.

5. DEFENCE LENGTHS SHOWN ARE APPROXIMATE.

6. FLOOD GATES COULD ALTERNATIVELY BE STOPLOGS. TO BE DETERMINED AT DETAILED DESIGN.

7. DEFENCE ALIGNMENT DRAWN USING A COMBINATION OF AERIAL AND MASTERMAP DATA.

8. CROSS SECTIONS SHOWN ON DRAWINGS UNST-ACM-XX-XX-DR-CE-03001 TO 03005.

9. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES. ENSURE DRAINAGE IS MAINTAINED.

NEW FLOOD AND EROSION DEFENCE STRUCTURE TYPE

EARTH EMBANKMENT

OR

FLOOD WALLS (INCLUDING FLIP-UP BARRIER)

FLOOD GATES

BOARDWALK

CAPITAL REFURBISHMENT

ROCK ARMOUR

NOT FOR
CONSTRUCTION

DRAFT ISSUE	BO	EI	16/09/19	P1
Revision Details	By	Check	Date	Swift
Purpose of issue				

FOR INFORMATION

Client

EASTERN SOLENT
COASTAL PARTNERSHIP

Project Title

OUTLINE DESIGN -
LANGSTONE FLOOD AND COASTAL
EROSION MANAGEMENT SCHEME

Drawing Title

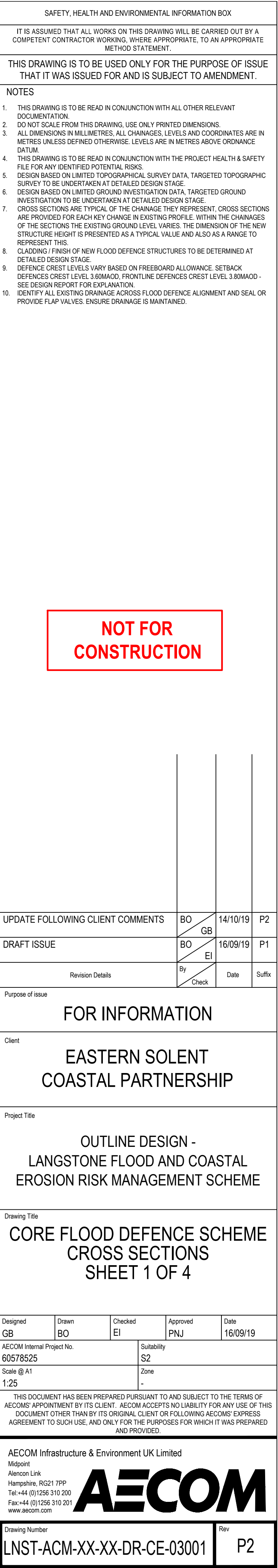
GENERAL ARRANGEMENT PLAN:
CORE AND ADDITIONAL
FLOOD DEFENCE SCHEME

Designed GB	Drawn BO	Checked EI	Approved PNJ	Date 16/09/19
AECOM Internal Project No. 60578525		Subality S2		
Scale @ A1 1:1000		Zone -		
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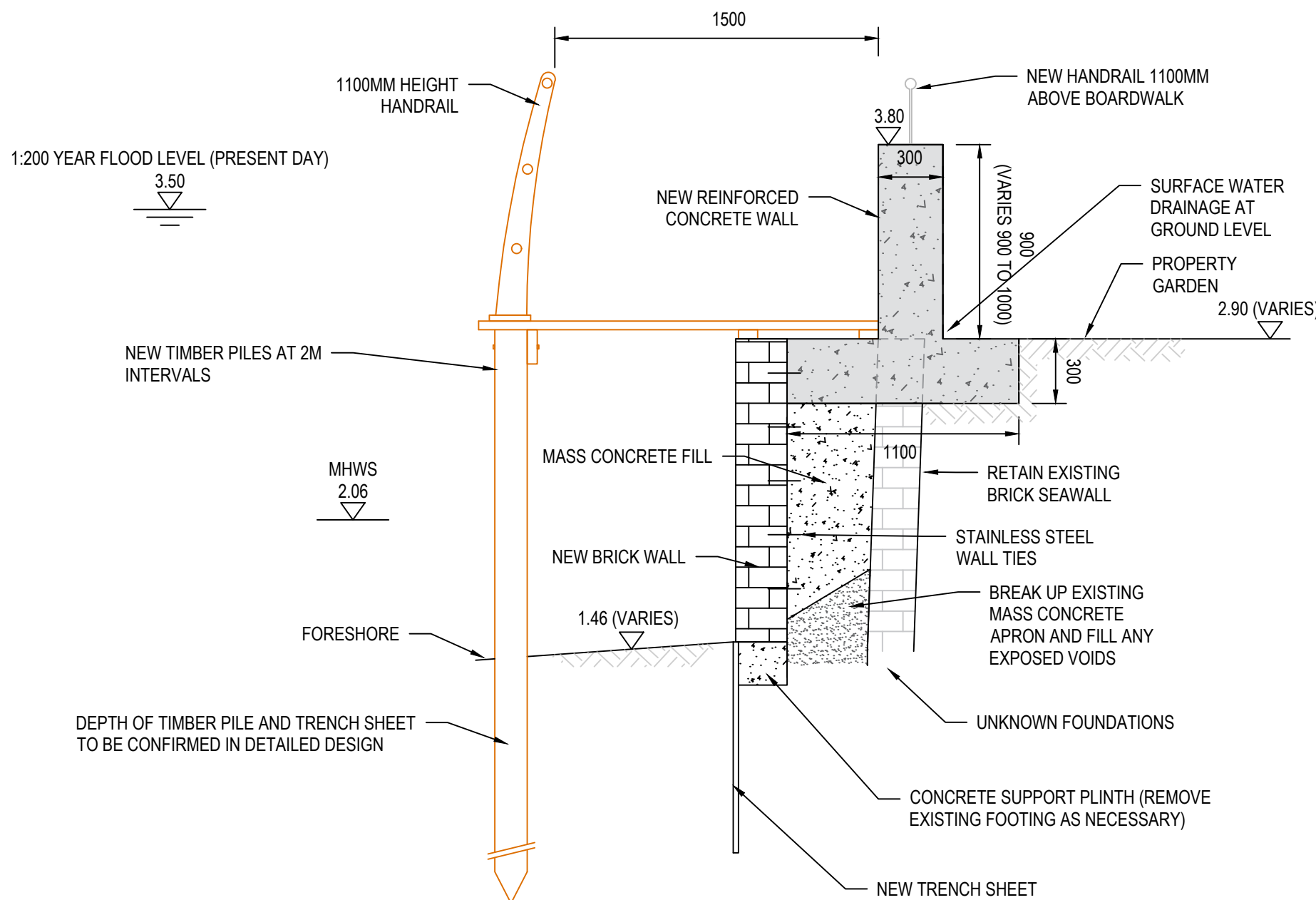
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Rev



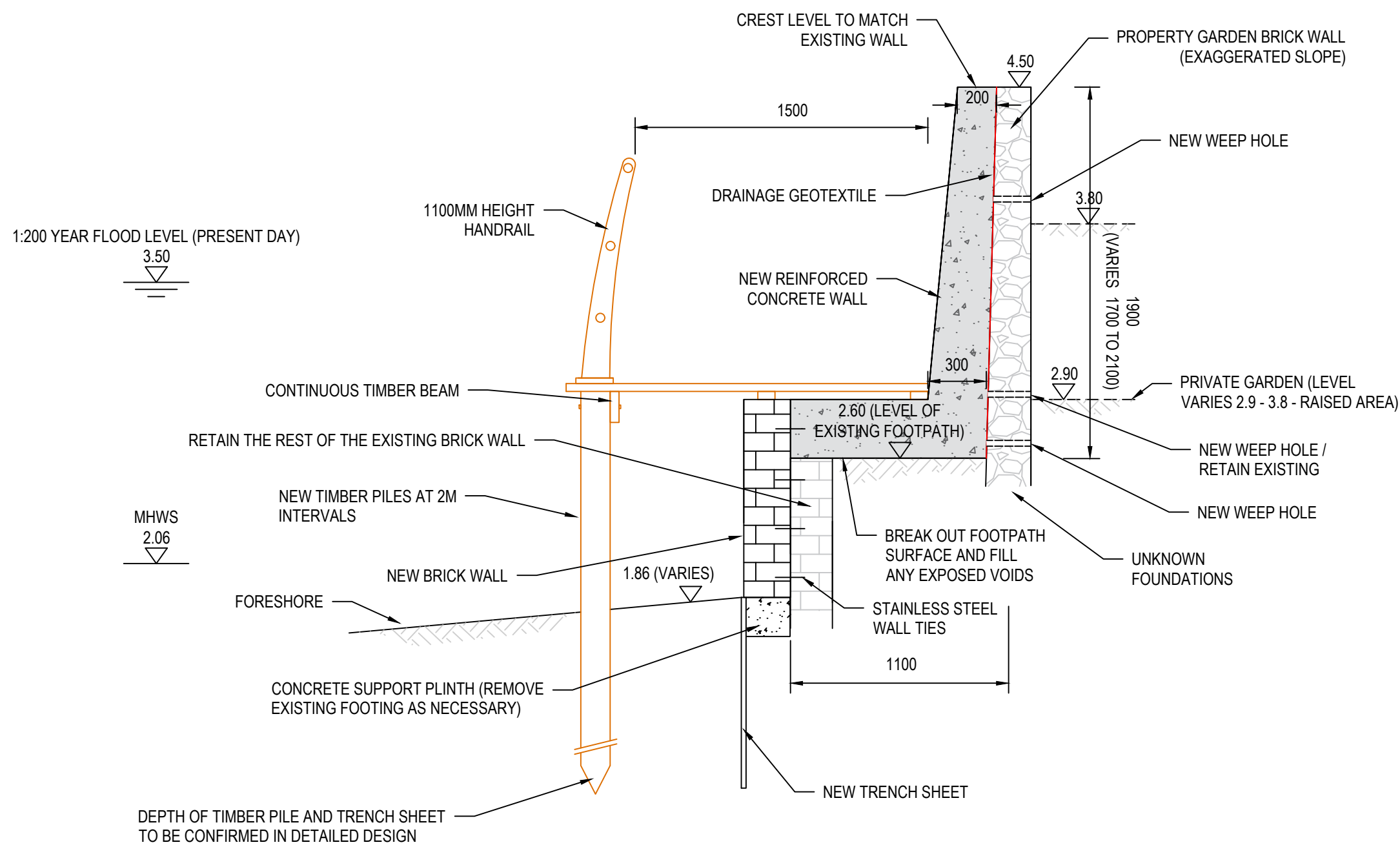


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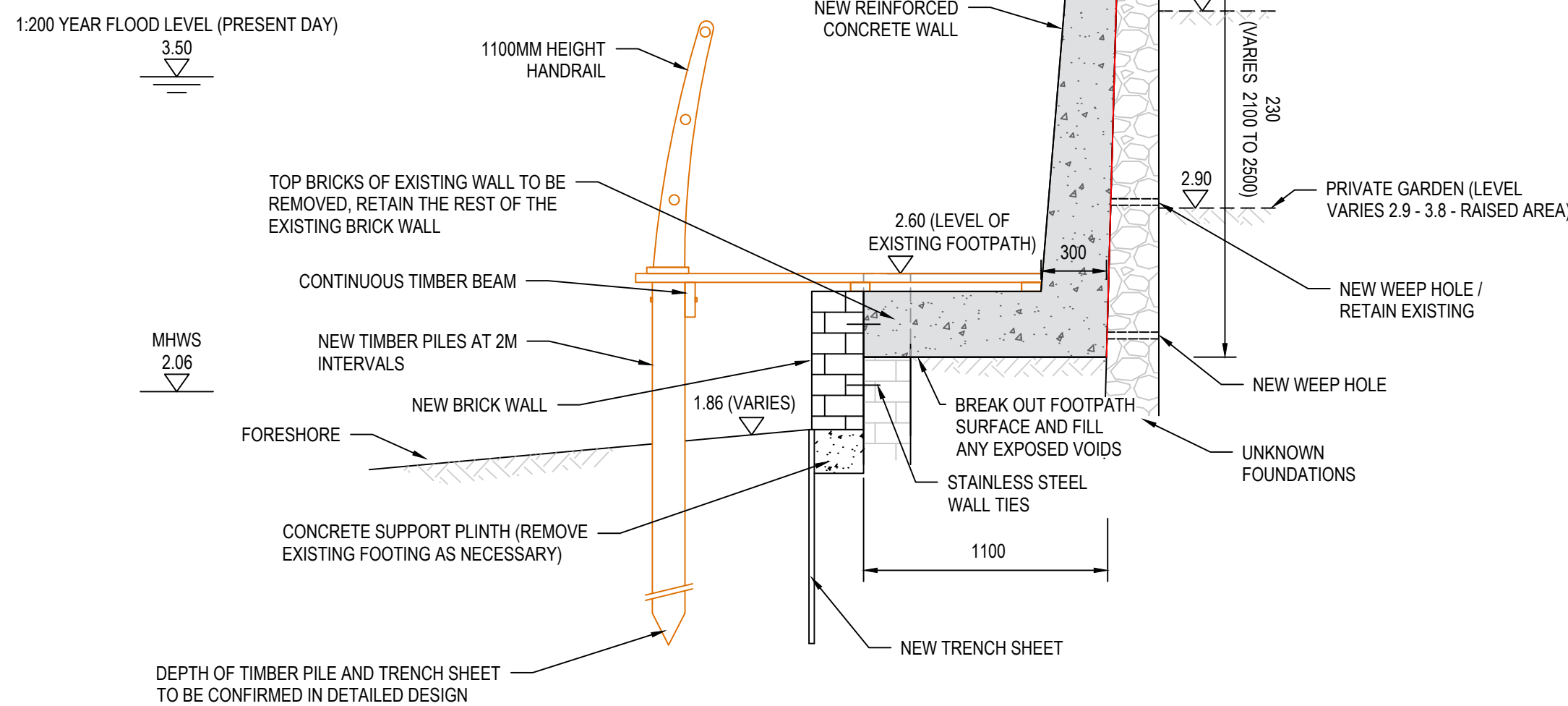


CROSS SECTION ODU 3F TO 3H - 2: REINFORCED CONCRETE FLOOD WALL AND BOARDWALK
CHAINAGE 545 - 585 METRES
SCALE 1:25

SCALE 1:25



OPTION 1: RAISED



OPTION 2: SAME LEVEL

CROSS SECTION ODU 3F TO 3H - 3: REINFORCED CONCRETE FLOOD WALL AND BOARDWALK
CHAINAGE 585 - 628 METRES
SCALE 1:25

SCALE 1:25

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6. DESIGN BASED ON LIMITED GROUND INVESTIGATION DATA, TARGETED GROUND INVESTIGATION TO BE UNDERTAKEN AT DETAILED DESIGN STAGE.
7. CROSS SECTIONS ARE TYPICAL OF THE CHANGES THEY REPRESENT. CROSS SECTIONS ARE PROVIDED FOR EACH KEY CHANGE IN EXISTING PROFILE. WITHIN THE CHANGES OF THE SECTIONS THE EXISTING GROUND LEVEL VARIES. THE DIMENSION OF THE NEW STRUCTURE HEIGHT IS PRESENTED AS A TYPICAL VALUE AND ALSO AS A RANGE TO REPRESENT THIS.
8. CLADDING / FINISH OF NEW FLOOD DEFENCE STRUCTURES TO BE DETERMINED AT DETAILED DESIGN STAGE.
9. DEFENCE CREST LEVELS VARY BASED ON FREEBOARD ALLOWANCE. SETBACK DEFENCES CREST LEVEL 3.60M AOD. FRONTLINE DEFENCES CREST LEVEL 3.80M AOD - SEE DESIGN REPORT FOR EXPLANATION.
10. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES. ENSURE DRAINAGE IS MAINTAINED.

NOT FOR
CONSTRUCTION

UPDATE FOLLOWING CLIENT COMMENTS	BO	PNJ	14/10/19 P2
DRAFT ISSUE	BO	EI	16/09/19 P1

Revision Details	By	Check	Date	Suffix

Purpose of issue
FOR INFORMATION

Client
**EASTERN SOLENT
COASTAL PARTNERSHIP**

Project Title
**OUTLINE DESIGN -
LANGSTONE FLOOD AND COASTAL
EROSION RISK MANAGEMENT SCHEME**

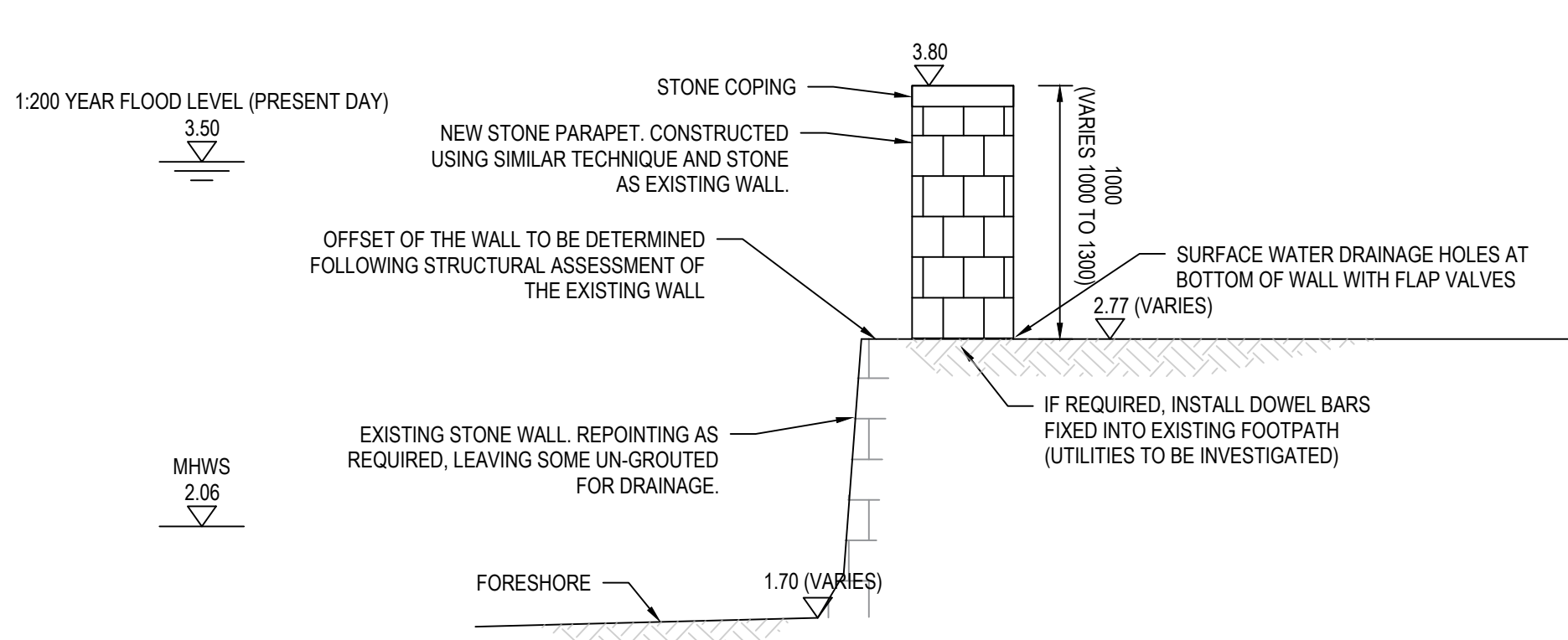
Drawing Title
**CORE FLOOD DEFENCE SCHEME
CROSS SECTIONS
SHEET 3 OF 4**

Designed GB	Drawn BO	Checked EI	Approved PNJ	Date 16/09/19
AECOM Internal Project No. 60578525		Suitability S2		
Scale @ A1 1:25		Zone +		

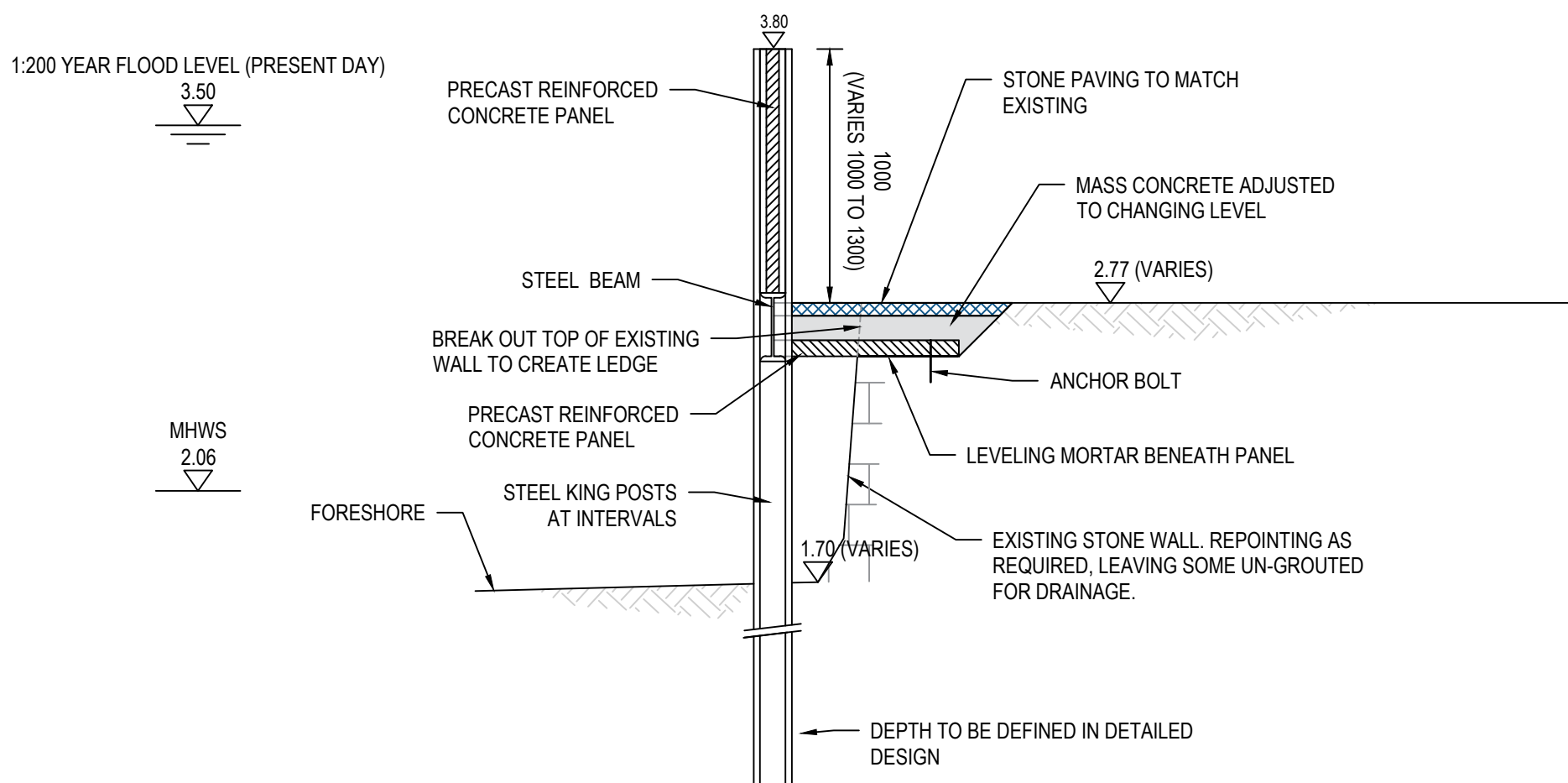
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Drawing Number LNST-ACM-XX-XX-DR-CE-03003	Rev P2
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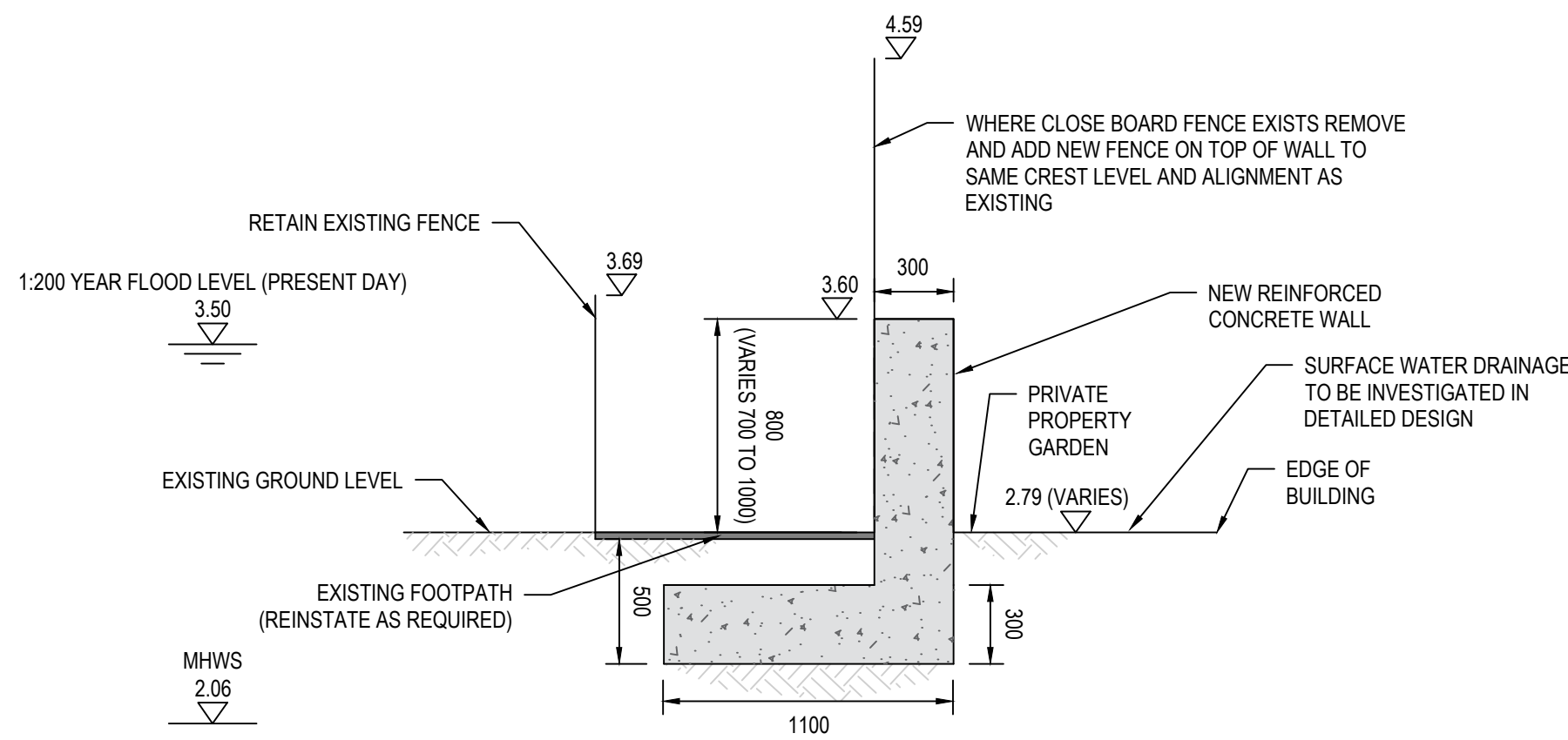
OPTION 1: PARAPET WALL



OPTION 2: KING POST WALL

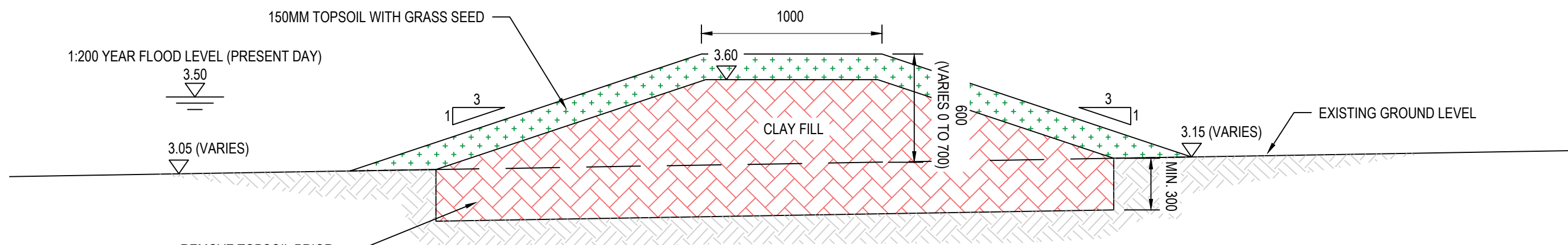
CROSS SECTION ODU 3K
CHAINAGE 655 - 740 METRES

SCALE 1:25



CROSS SECTION ODU 3L-1: REINFORCED CONCRETE FLOOD WALL
CHAINAGE 740 - 825 METRES

SCALE 1:25



CROSS SECTION ODU 3L-2: EARTH EMBANKMENT
CHAINAGE 825 - 862 METRES

SCALE 1:25

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- DEFENCE CREST LEVELS VARY BASED ON FREEBOARD ALLOWANCE. SETBACK DEFENCES CREST LEVEL 3.60M AOD. FRONTLINE DEFENCES CREST LEVEL 3.80M AOD - SEE DESIGN REPORT FOR EXPLANATION.
- IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES. ENSURE DRAINAGE IS MAINTAINED.

NOT FOR
CONSTRUCTION

UPDATE FOLLOWING CLIENT COMMENTS	BO GB	14/10/19	P2
DRAFT ISSUE	BO EI	16/09/19	P1

Revision Details	By Check	Date	Suffix
Purpose of issue			

FOR INFORMATION

Client
**EASTERN SOLENT
COASTAL PARTNERSHIP**

Project Title
**OUTLINE DESIGN -
LANGSTONE FLOOD AND COASTAL
EROSION RISK MANAGEMENT SCHEME**

Drawing Title
**CORE FLOOD DEFENCE SCHEME
CROSS SECTIONS
SHEET 4 OF 4**

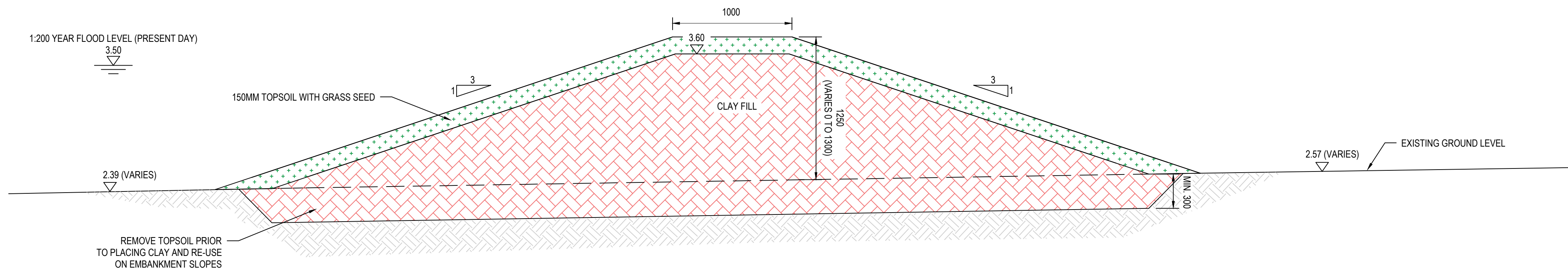
Designed GB	Drawn BO	Checked EI	Approved PNJ	Date 16/09/19
AECOM Internal Project No. 60578525			Suitability S2	
Scale @ A1 1:25			Zone +	

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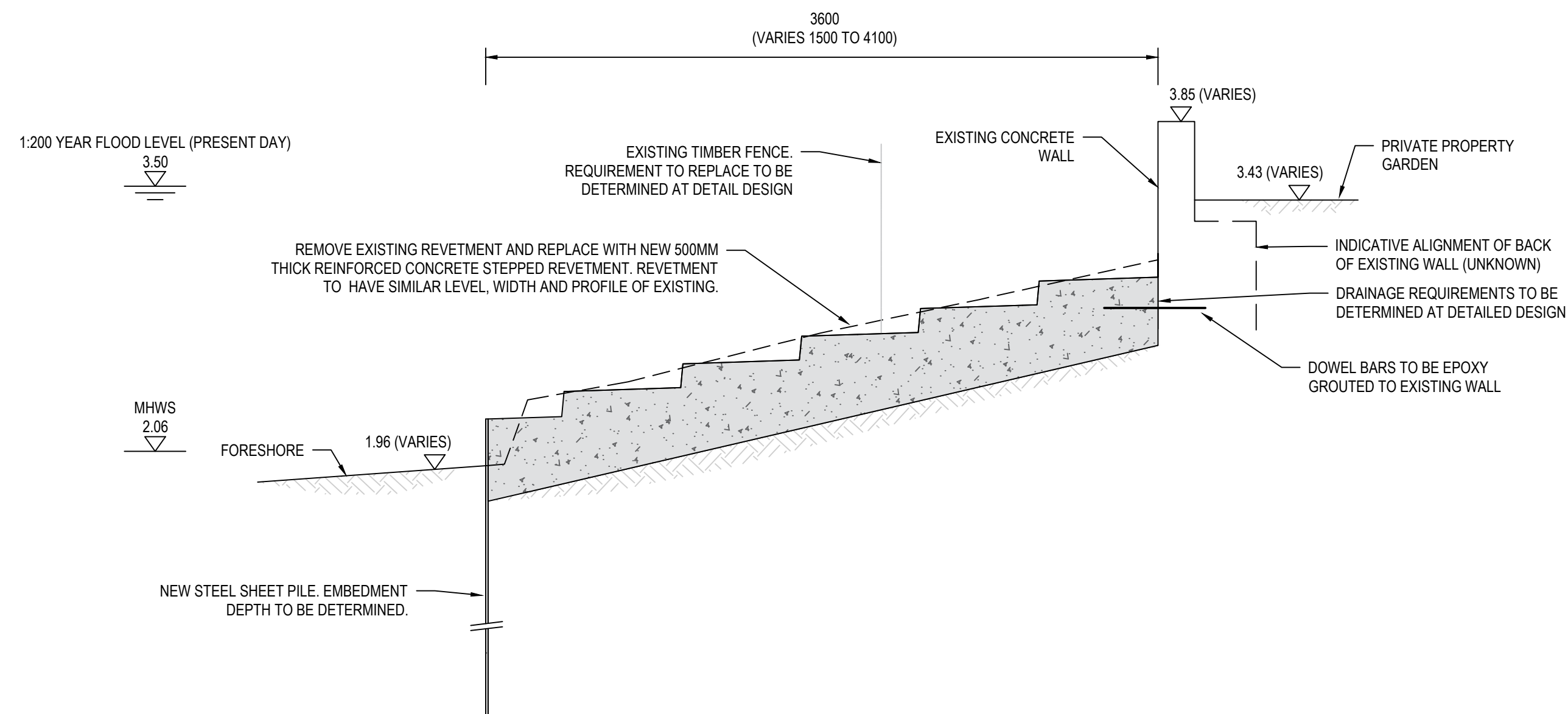
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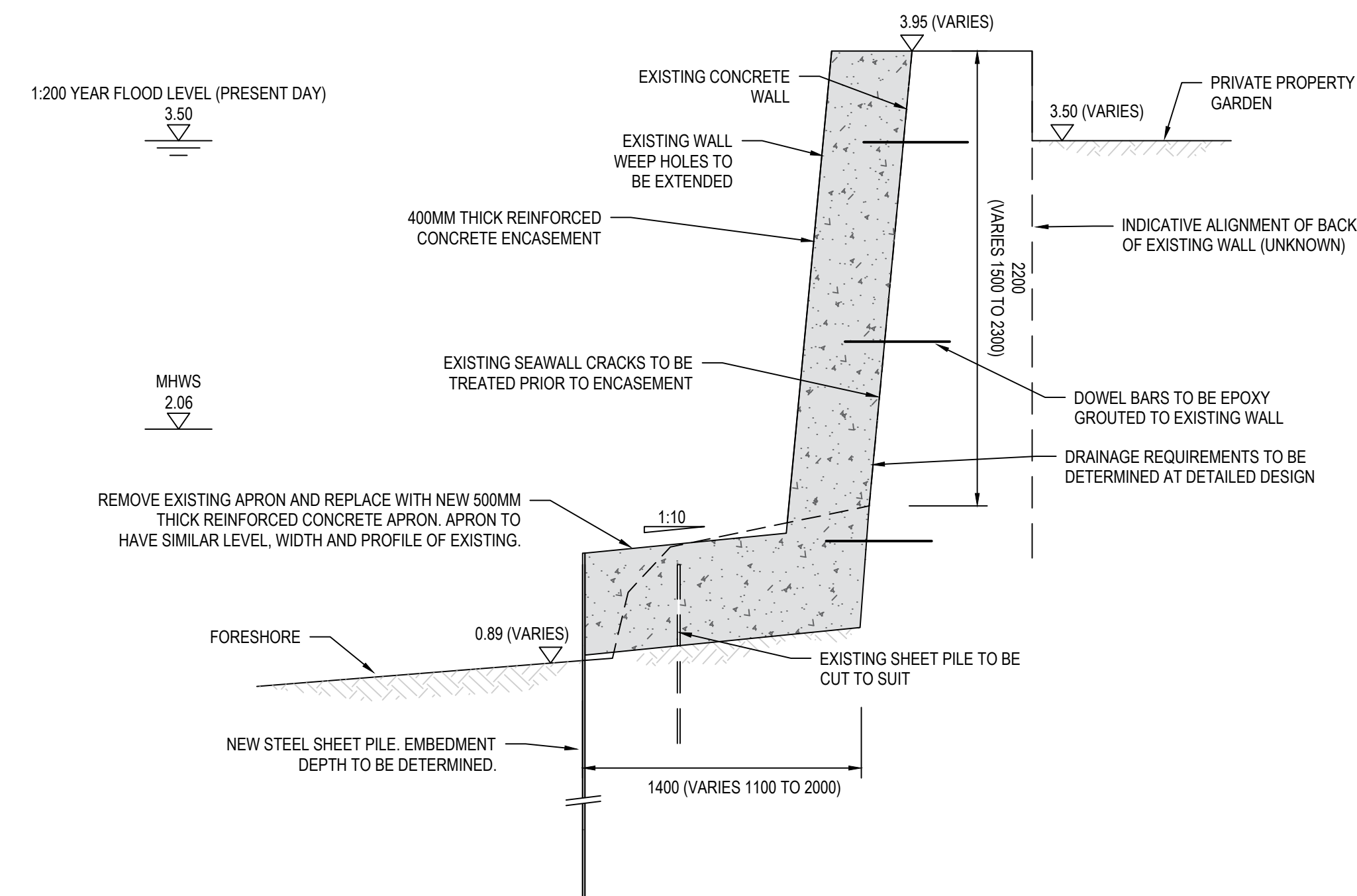
Drawing Number LNST-ACM-XX-XX-DR-CE-03004	Rev P2
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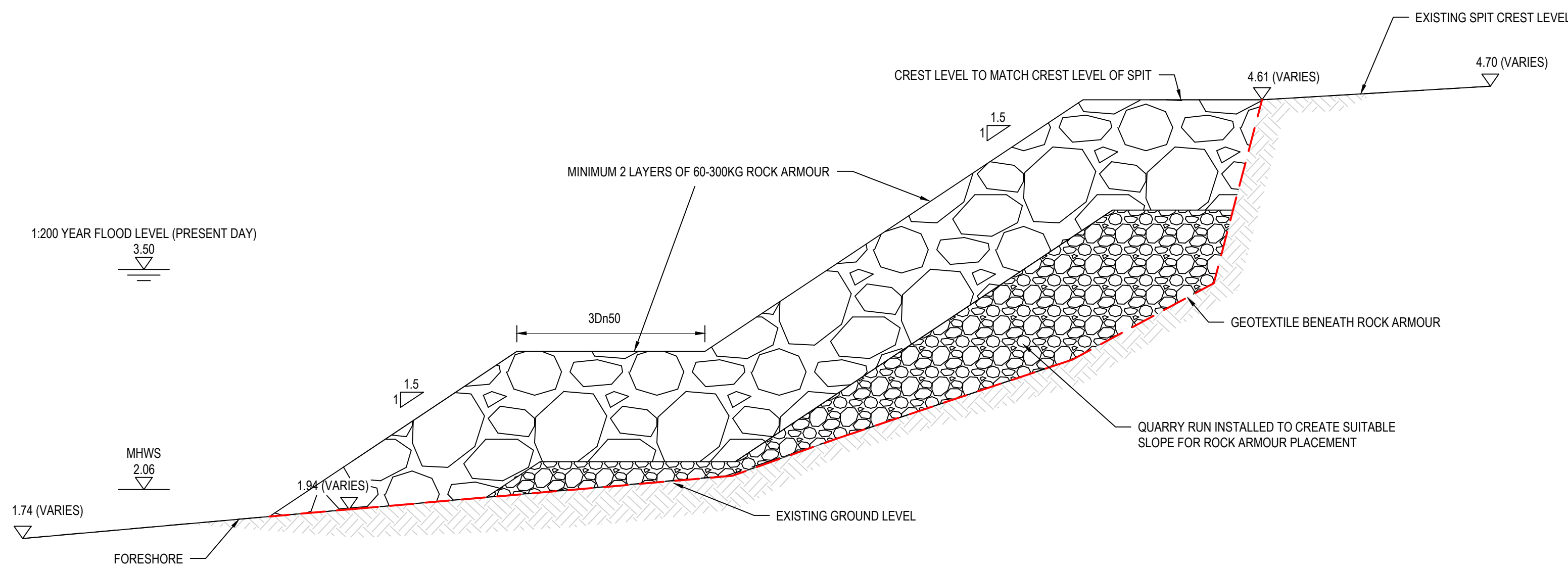
CROSS SECTION ODU 1A: EARTH EMBANKMENT
CHAINAGE 0A - 110A METRES
SCALE 1:25



CROSS SECTION ODU 1B - 1: CAPITAL REFURBISHMENT
CHAINAGE 190A - 220A METRES
SCALE 1:25



CROSS SECTION ODU 1B - 2: CAPITAL REFURBISHMENT
CHAINAGE 220A - 325A METRES
SCALE 1:25



CROSS SECTION ODU 2A: ROCK ARMOUR
LENGTH 50M
SCALE 1:25

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX				
IT IS ASSUMED THAT ALL WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROPRIATE METHOD STATEMENT.				
THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT.				
NOTES				
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3. ALL DIMENSIONS IN MILLIMETRES. ALL CHANGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM.				
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.				
5. DESIGN BASED ON LIMITED TOPOGRAPHICAL SURVEY DATA. TARGETED TOPOGRAPHIC SURVEY TO BE UNDERTAKEN AT DETAILED DESIGN STAGE.				
6. DESIGN BASED ON LIMITED GROUND INVESTIGATION DATA. TARGETED GROUND INVESTIGATION TO BE UNDERTAKEN AT DETAILED DESIGN STAGE.				
7. CROSS SECTIONS ARE TYPICAL OF THE CHANGE THEY REPRESENT. CROSS SECTIONS ARE PROVIDED FOR EACH KEY CHANGE IN EXISTING PROFILE. WITHIN THE CHANGES OF THE SECTIONS THE EXISTING GROUND LEVEL VARIES. THE DIMENSION OF THE NEW STRUCTURE HEIGHT IS PRESENTED AS A TYPICAL VALUE AND ALSO AS A RANGE TO REPRESENT THIS.				
8. CLADDING / FINISH OF NEW FLOOD DEFENCE STRUCTURES TO BE DETERMINED AT DETAILED DESIGN STAGE.				
9. DEFENCE CREST LEVELS VARY BASED ON FREEBOARD ALLOWANCE. SEBACK DEFENCES CREST LEVEL: 3.80MAOD. FRONTLINE DEFENCES CREST LEVEL: 3.80MAOD - SEE DESIGN REPORT FOR EXPLANATION.				
10. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES. ENSURE DRAINAGE IS MAINTAINED.				
NOT FOR CONSTRUCTION				
UPDATE FOLLOWING CLIENT COMMENTS	BO GB	15/10/19	P2	
DRAFT ISSUE	BO EI	16/09/19	P1	
Revision Details	By Check	Date	Suffix	
Purpose of issue				
FOR INFORMATION				
Client				
EASTERN SOLENT COASTAL PARTNERSHIP				
Project Title				
OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME				
Drawing Title				
ADDITIONAL FLOOD DEFENCE SCHEME CROSS SECTIONS				
Designed GB	Drawn BO	Checked EI	Approved PNJ	Date 16/09/19
AECOM Internal Project No. 60578525		Suitability S2		
Scale @ A1 1:25		Zone -		
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Drawing Number LNST-ACM-XX-XX-DR-CE-03005				Rev P2



BRICK CLAD FLOOD WALL WITH PIERS, STONE COPINGS AND INFILL RAILING PANELS



BRICK CLAD FLOOD WALL WITH RECESSED PANELS AND STONE COPING



FLINT WALL (PHOTO FROM THE FLINT WALL COMPANY)



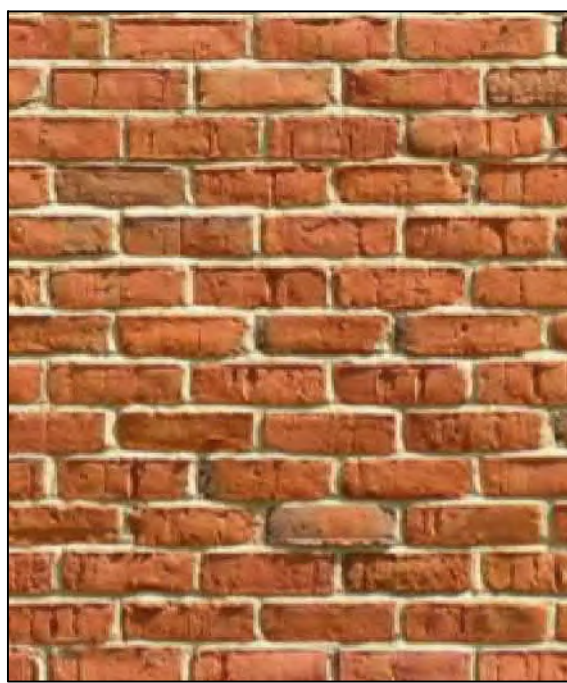
MULTI-TEXTURED CONCRETE



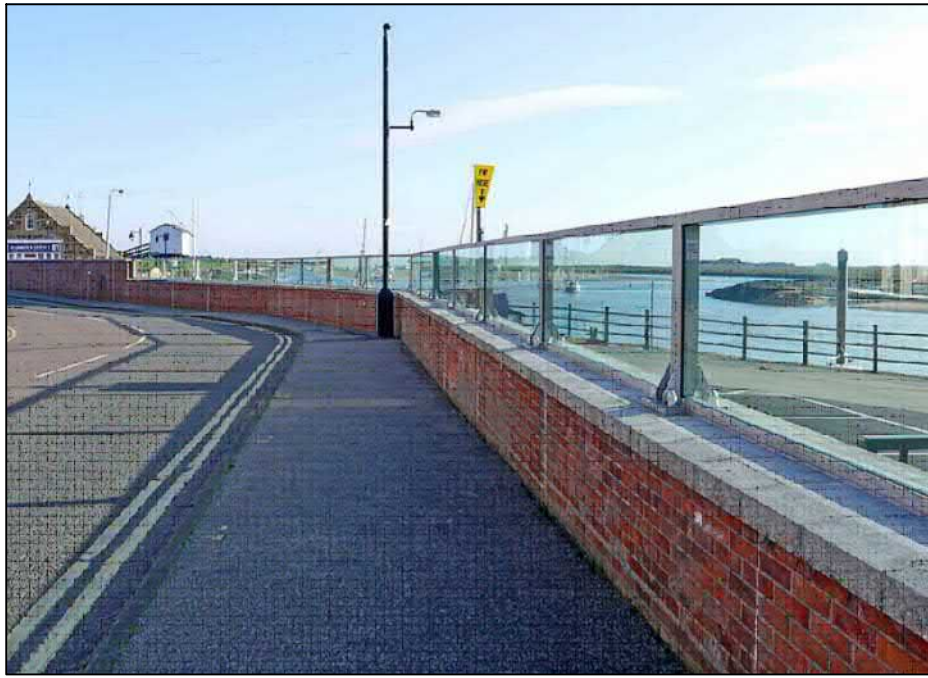
RECESSED BRICK CLADDING



DETAILED COPING



RED BRICK TO MATCH EXISTING



GLASS FLOOD BARRIER (PHOTO FROM FLOOD CONTROL INTERNATIONAL LTD)



CONCRETE ENCASEMENT OF SHEET PILING



OPPORTUNITY FOR CREATIVE IMPRESSIONS WITHIN THE CONCRETE



STOP LOGS (PHOTO FROM FLOOD CONTROL INTERNATIONAL LTD)



DEPLOYED FLIP-UP FLOOD BARRIER (PHOTO FROM FLOOD CONTROL INTERNATIONAL LTD)



PRE-CAST CONCRETE PANELS TEXTURED WITH NATURAL STONE FINISH (PHOTO FROM RPC CONTRACTS LTD)



STONE WALL (PHOTO FROM ACE BRICK AND STONWORK)



FLOOD GATE (PHOTO FROM FLOOD CONTROL INTERNATIONAL LTD)

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NOT FOR CONSTRUCTION

DRAFT ISSUE	GB EI	16/09/19	P1	
Revision Details	By Check	Date	Suffix	
Purpose of issue				
FOR INFORMATION				
Client				
EASTERN SOLENT COASTAL PARTNERSHIP				
Project Title				
OUTLINE DESIGN - LANGSTONE FLOOD AND COASTAL EROSION RISK MANAGEMENT SCHEME				
Drawing Title				
WALL MATERIAL OPTIONS				
Designed GB	Drawn GB	Checked EI	Approved PNJ	Date 16/09/19
AECOM Internal Project No. 60578525		Suitability S2		
Scale @ A1 +		Zone +		
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Drawing Number LNST-ACM-XX-XX-DR-CE-04001				Rev P1