

Ardrossan North Shore

Indicative Method Statement – Revetment Construction and Land Reclamation

This document details the indicative methodology proposed for the enabling works at the Ardrossan North Shore site. It is noted that at the time of application a Main Contractor has not been appointed, as such the approach to construction may alter depending on the approach proposed by the Contractor. North Ayrshire Council will request method statements as part of the contractual requirements, these will be provided to Marine Scotland should there be a proposed alteration to the approach of construction.

Works Requirements

Replacement of the existing stone revetment with a new rock revetment as detailed in Fairhurst drawings (137240-0250 and 137240 0251).

Works will include:

- excavation on the beach and construction of revetment toe
- removal of existing revetment for subsequent processing on the development site.
- Development and profiling of new formation layer.
- installation of filter geotextile.
- installation of rock layer and rock armour to produce new revetment (as per Fairhurst drawings (137240-2055)
- installation of new drainage outfalls as per Fairhurst drawing (137240-2000 and 137240-2012)
- reclamation of an area of land behind the new revetment as detailed in Fairhurst drawing 137240-2054 (Platform Area 5). It is envisaged that this will incorporate formation of a temporary rock bund with geotextile layer (to prevent release of fines) at the western extent of the infill area with material being placed behind the bund. As the infill progresses the revetment profile will be created with the bund ultimately forming part of the revetment construction.

Demolition and Excavation

The revetment removal works will be undertaken by mechanical plant working on both the foreshore and the terrestrial site area.

Formation of the new revetment profile (including excavation of the toe) will be undertaken by plant on the foreshore area.

Beach material (sand, gravel, boulders, rocks) excavated will be reused on the terrestrial development and may be reused as part of the land reclamation process.

Imported Fill

Imported material will be brought to site by lorry, however there is potential for some material to be brought in by barge. Compaction of the fill will be carried out in 500mm deep layers.

Geotextile Protection

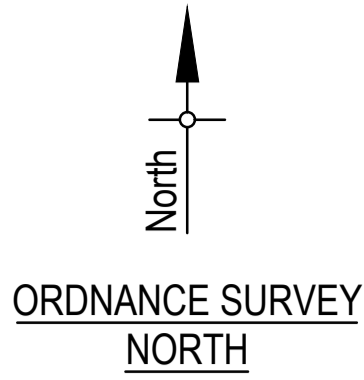
A geotextile layer will be placed on the underside of the new revetment, most likely rolled from the terrestrial site to the toe area of the development.

Rock Revetment

Revetment material layers (as detailed in Fairhurst drawing 137240-2055) will be placed utilising an excavator located either on the foreshore or terrestrial site depending on the location of placement.

Land Reclamation

The temporary bund will be formed with rock material utilising an excavator located on the foreshore area. The infill material behind the bund will be placed using an excavator and compacted as required to meet the infill specification.



LEGEND

PROPOSED LEVELS
DENOTED THUS: ± 1.000

CROSSFALLS
DENOTED THUS: 3%

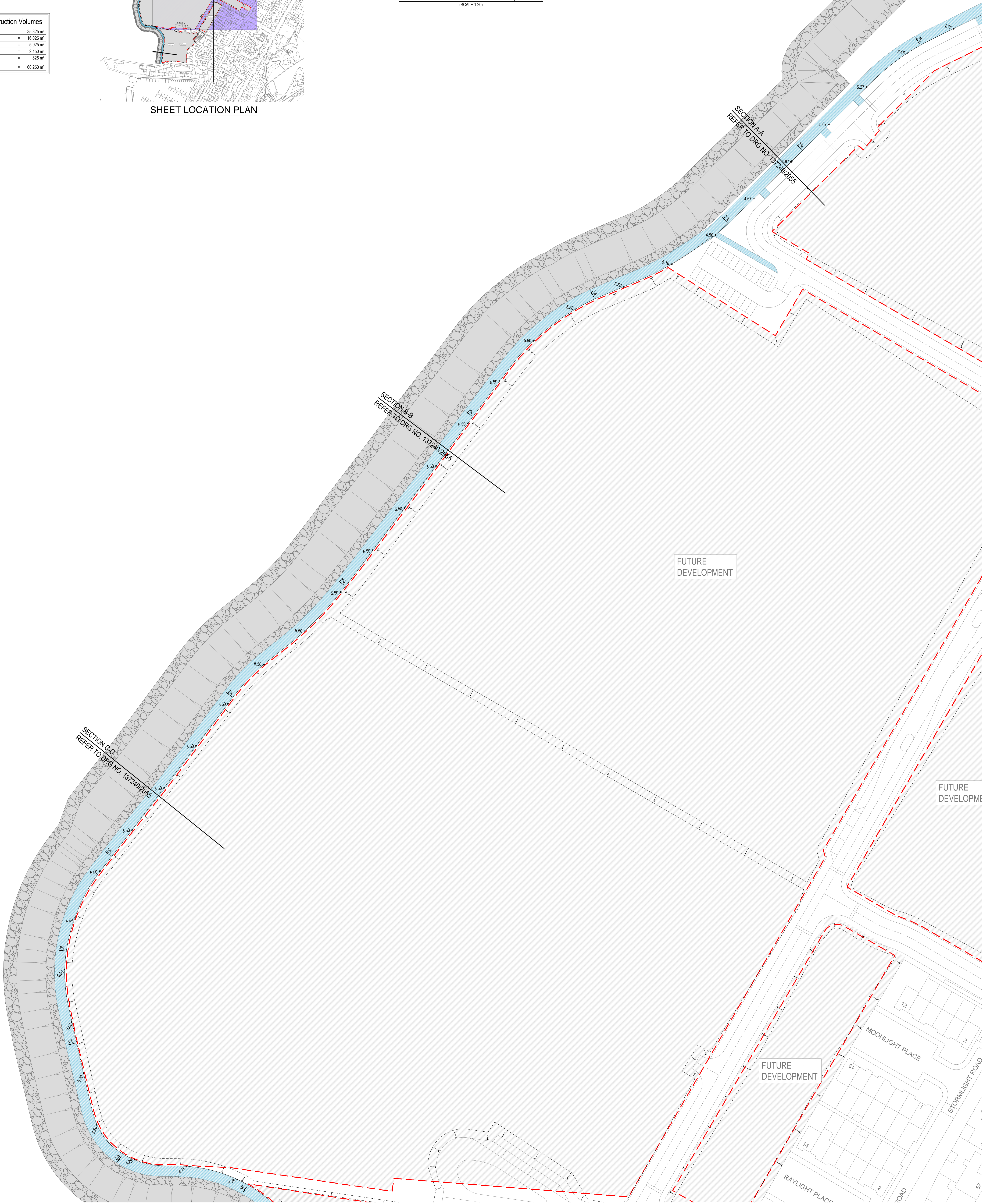
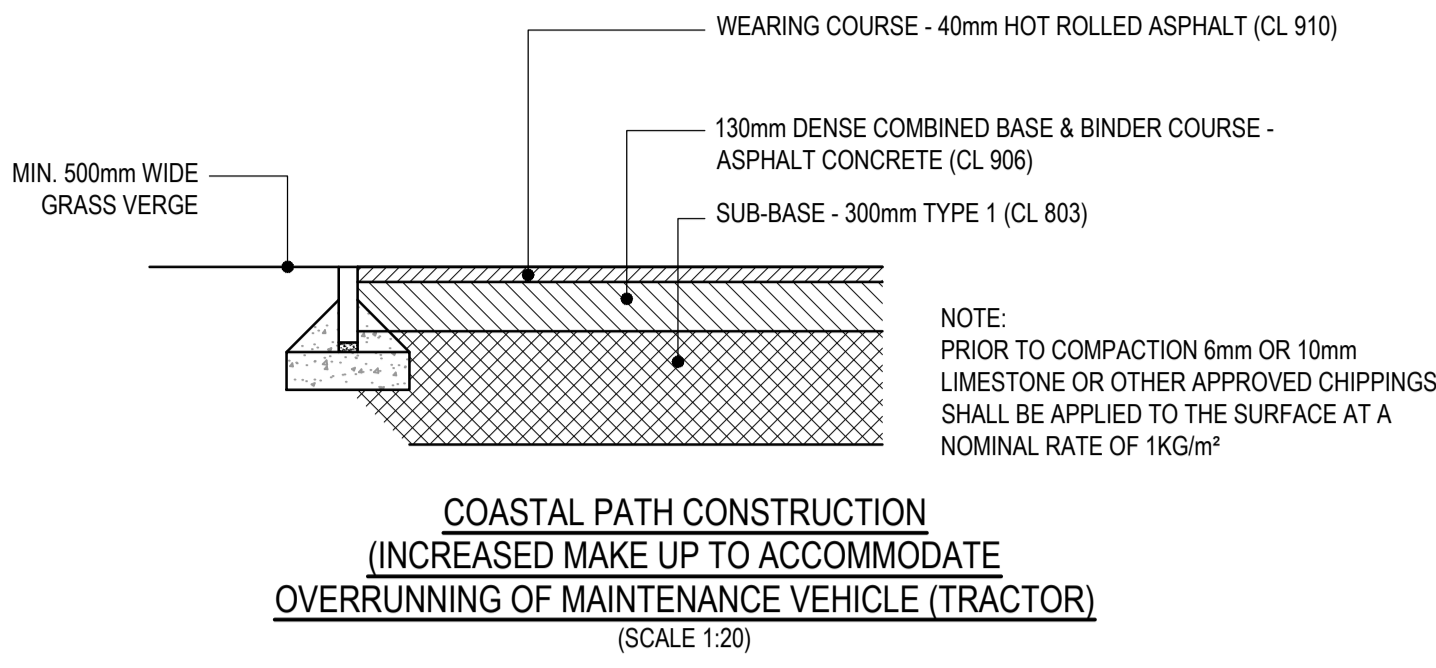
COASTAL PATH
DENOTED THUS:

NOTES

1. FOR SECTIONS THROUGH PROPOSED REVETMENT AND COASTAL PATH ARRANGEMENT, PLEASE REFER TO DRG NO. 137240/2055.

Revetment Construction Volumes	
W	= 35,329 m ³
W1	= 16,029 m ³
W2	= 5,929 m ³
W3	= 2,159 m ³
W4	= 825 m ³
Total	= 60,250 m ³

SHEET LOCATION PLAN



Rev.	Date	Description	Drawn	Checked	Approved

Notes:

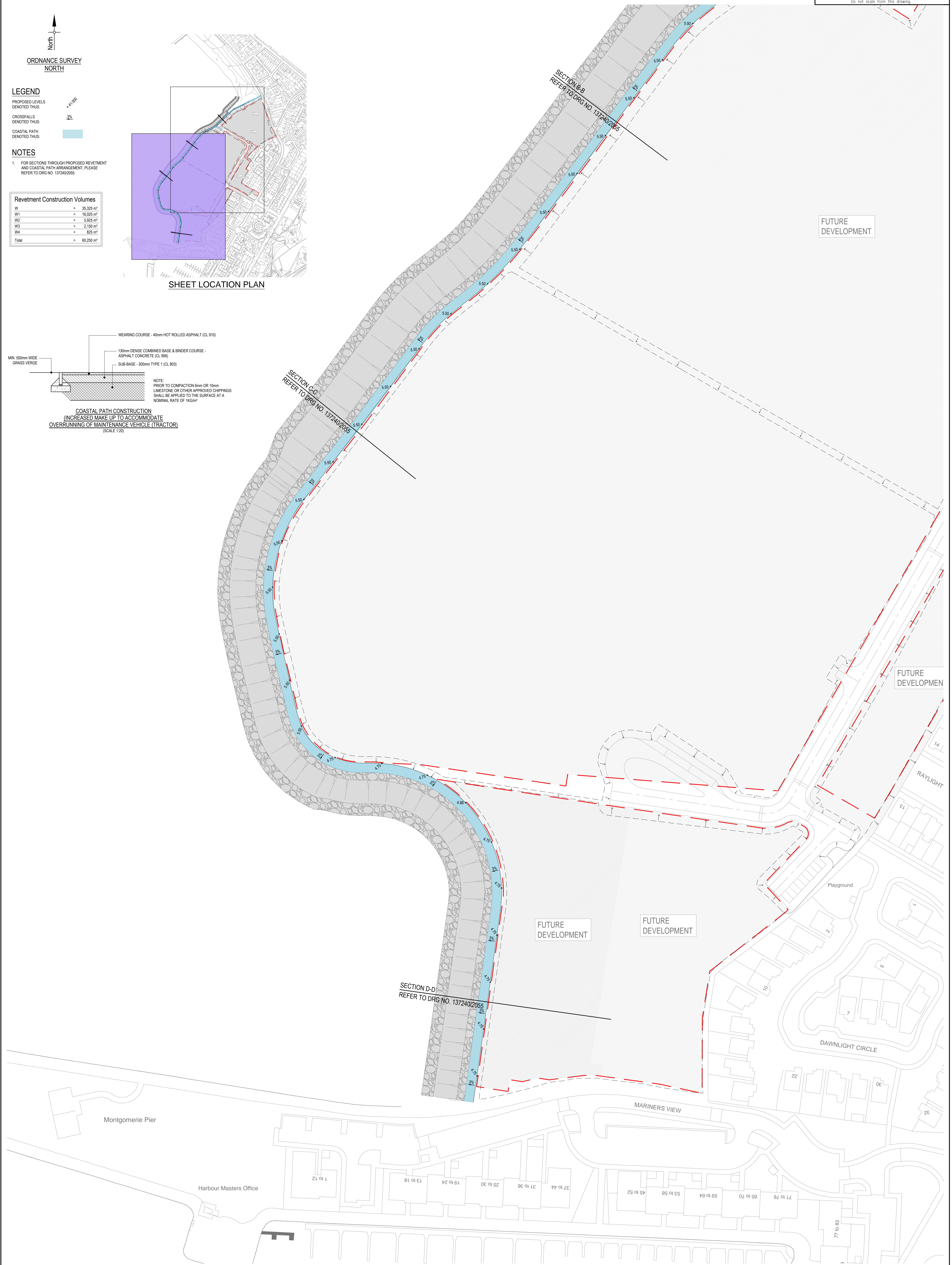
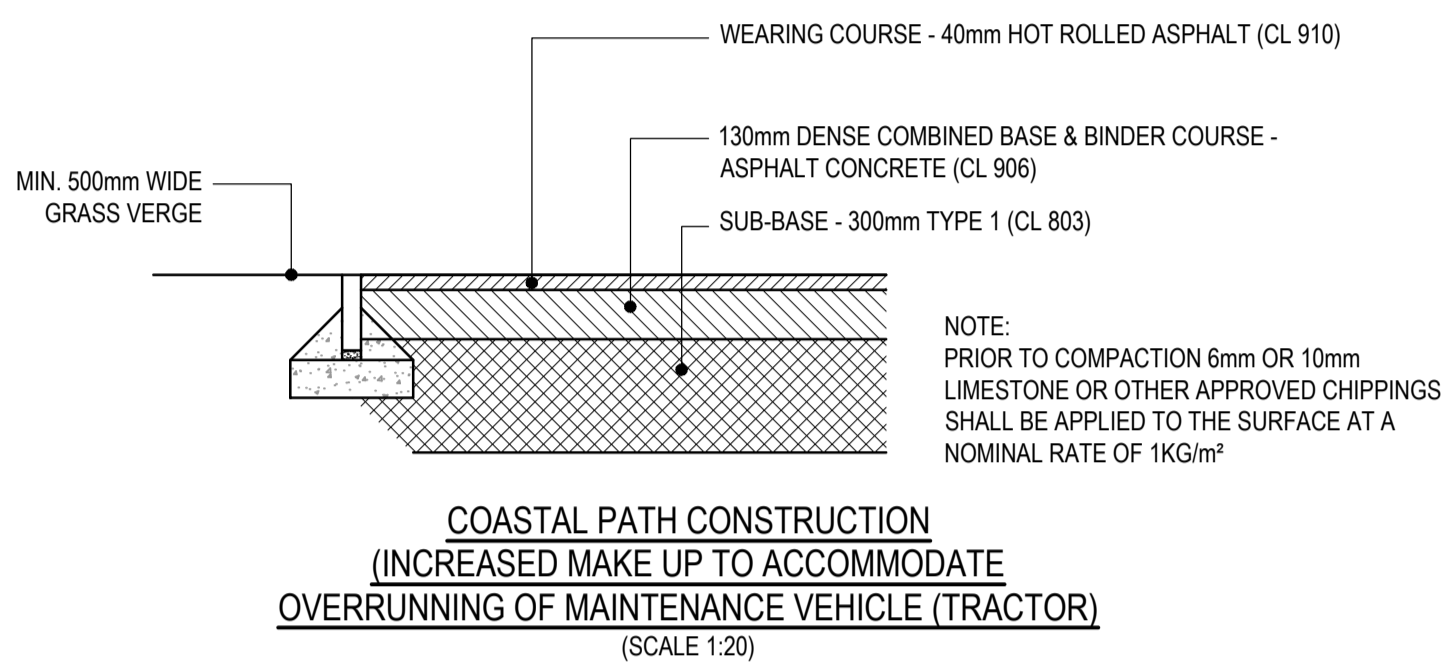
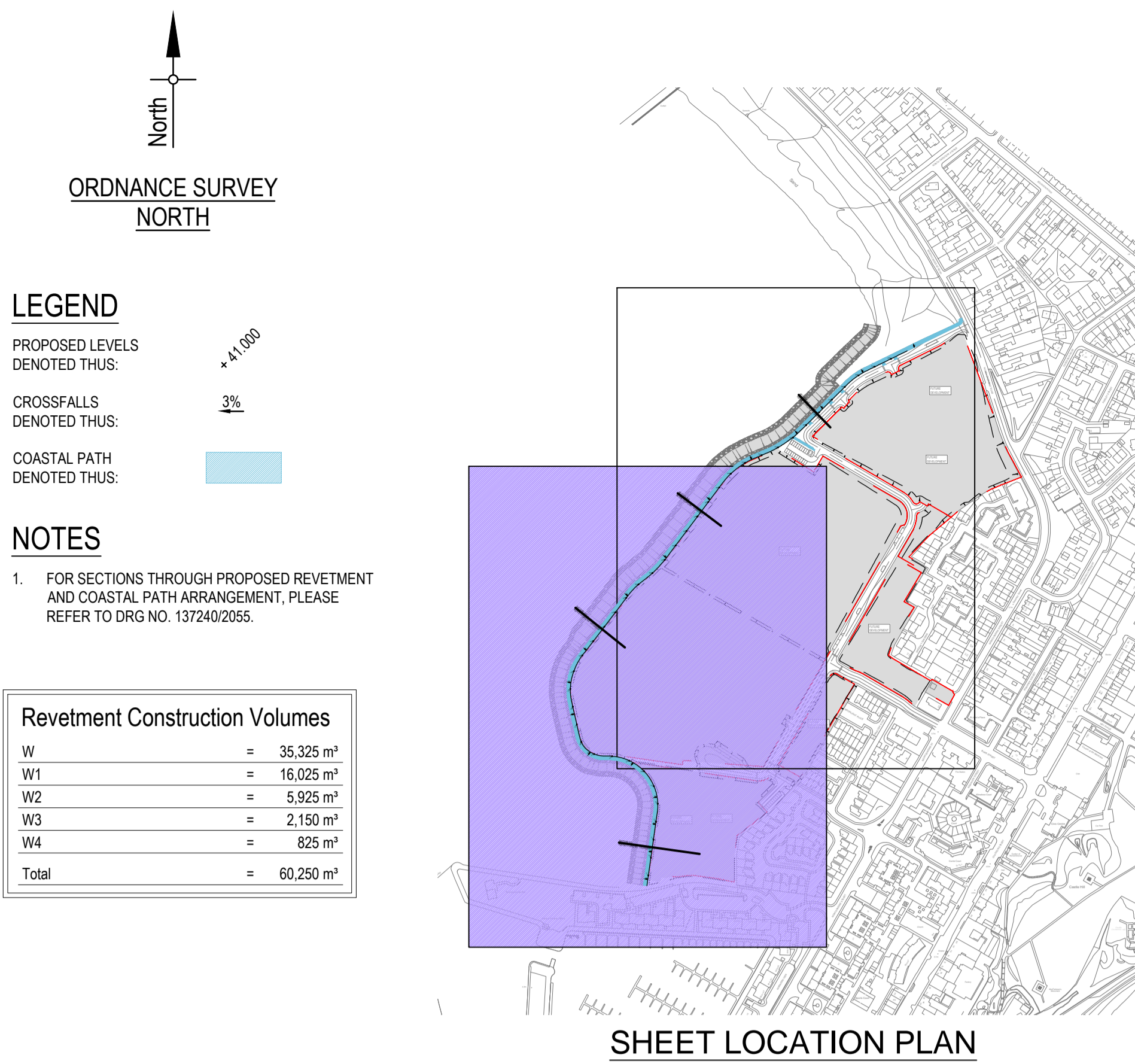
Client:
NORTH AYRSHIRE
COUNCIL

Project Title:
ARDROSSAN NORTH SHORE

Drawing Title:
ENABLING WORKS
PROPOSED REVETMENT AND
COASTAL PATH LAYOUT
SHEET 1

FAIRHURST
225 Bath Street,
GLASGOW G2 4JZ
Tel: 0141 254 8800 Fax: 0141 254 8801

Scale of RD: 1:500	Author: Tender
Drawn: RD	Checked: PMcI
Date: 23/09/21	Date: 21/09/21
Drawing No: 137240/2050	Revision: —



Rev.	Date	Description	Drawn	Checked Approved

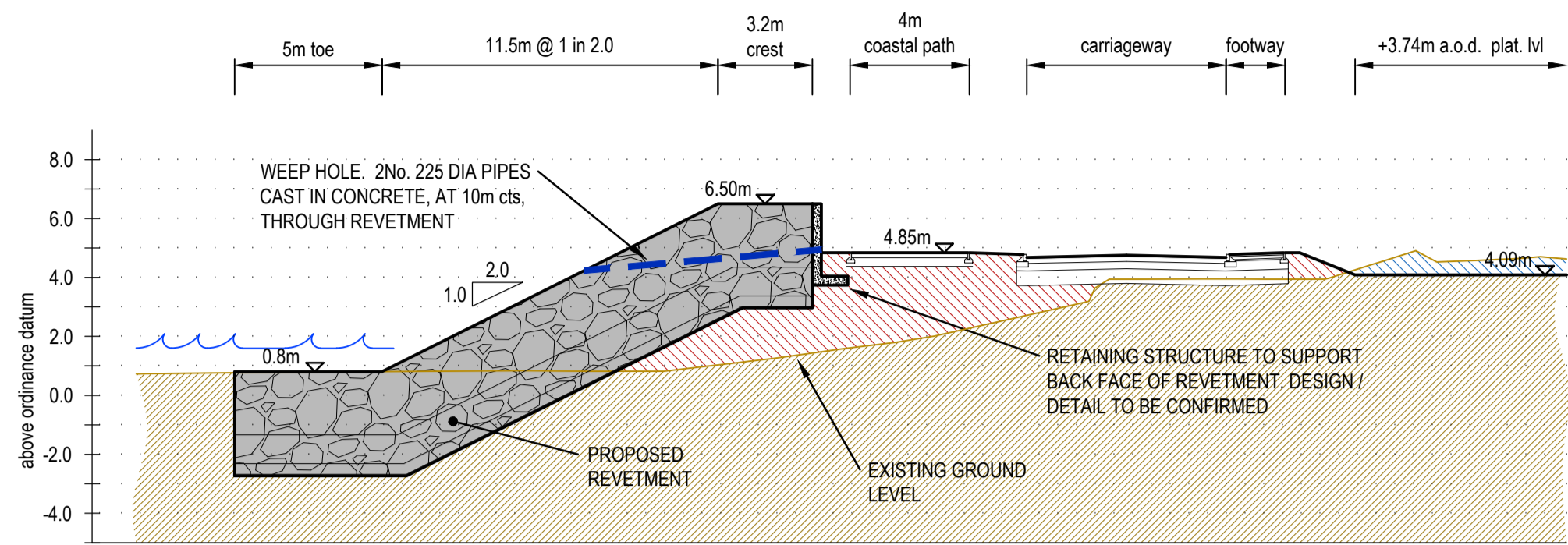
Client:
NORTH AYRSHIRE
COUNCIL

Project Title:

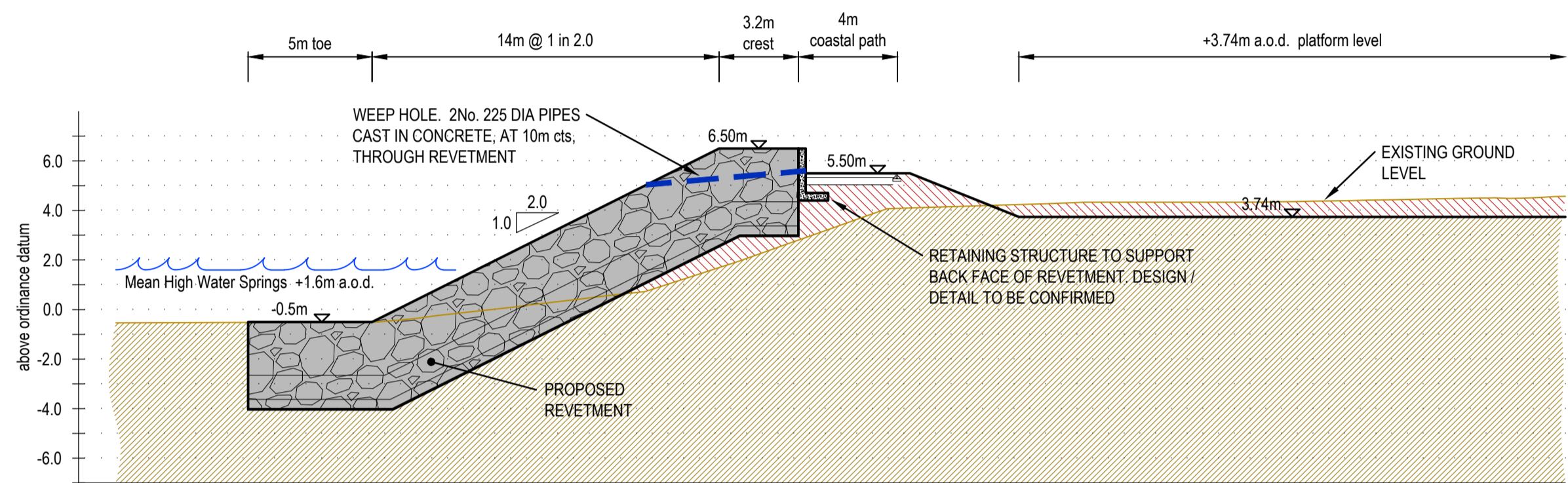
ARDROSSAN NORTH SHORE

Drawing Title:
ENABLING WORKS
PROPOSED REVETMENT AND
COASTAL PATH LAYOUT
SHEET 2

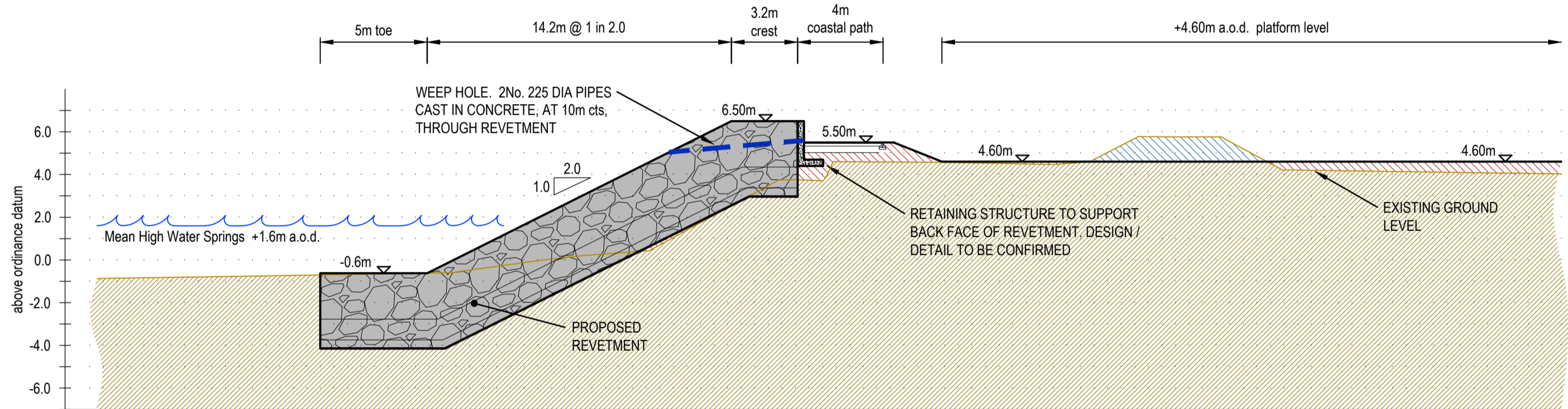
FAIRHURST			
225 Bath Street, GLASSBORO, NJ 07030 Tel: 01-610-204-8800 Fax: 01-610-204-8801			
Scale at A0:	Sheet:		
1:500	Tender		
Drawn:	Checked:	Approved:	
RD	PMC/F	JS	
Date:	Date:	Date:	
23/09/21	21/09/21	21/09/21	
Drawing No.:	137240/2051		Revision:
			-



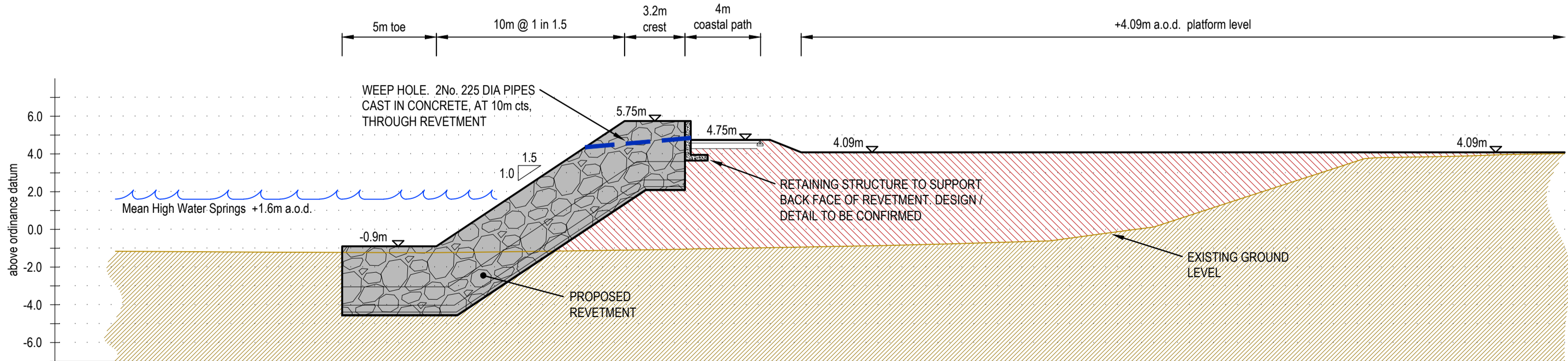
INDICATIVE SECTION THROUGH REVETMENT - SECTION A-A
(scale 1:200)



INDICATIVE SECTION THROUGH REVETMENT - SECTION B-B
(scale 1:200)

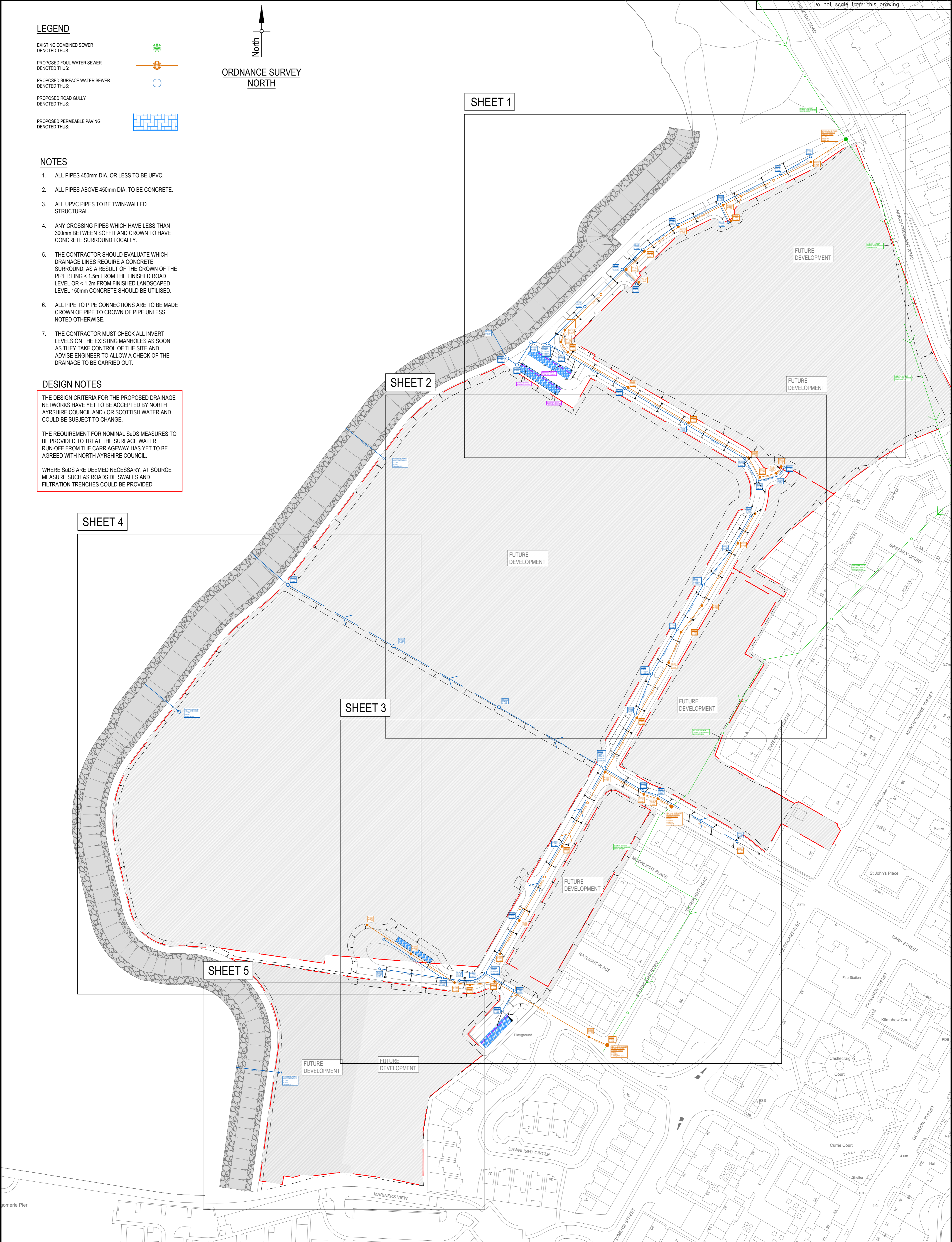


INDICATIVE SECTION THROUGH REVETMENT - SECTION C-C
(scale 1:200)



INDICATIVE SECTION THROUGH REVETMENT - SECTION D-D
(scale 1:200)

Rev.	Date	Description	Drwn.	Chkd.	Appd.			
FAIRHURST			Client: NORTH AYRSHIRE COUNCIL					
225 Bath Street GLASGOW G2 4GZ Tel: 0141 204 8800 Fax: 0141 204 8801								
Project Title: ARDROSSAN NORTH SHORE								
Drawing Title: ENABLING WORKS SECTIONS THROUGH PROPOSED REVETMENT AND COASTAL PATH								
Scale at A1: 1:200		Status: Tender						
Drawn: RD		Checked:		Approved:				
Date: 24/09/21		Date:		Date:				
Drawing No.: 137240/2055				Revision: —				



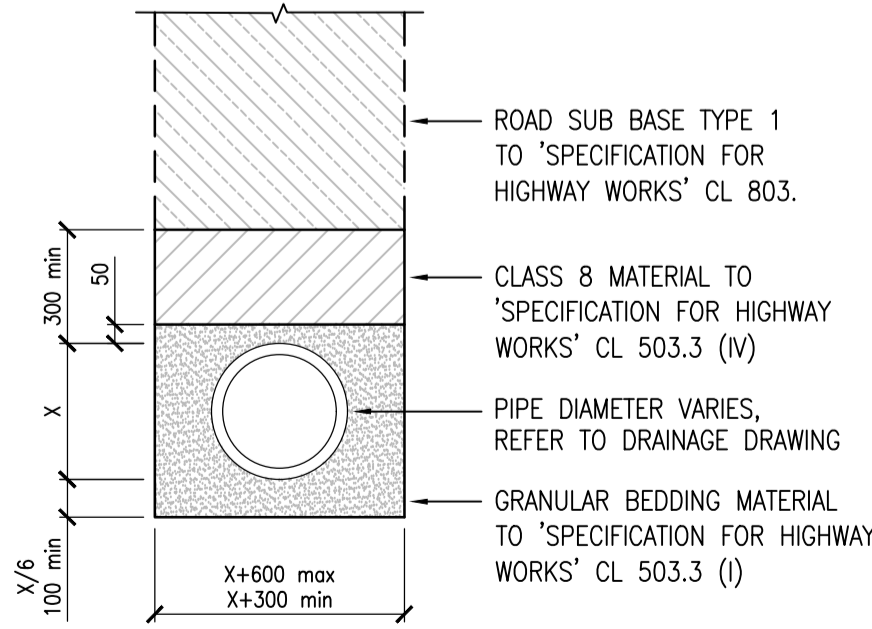
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GENERAL NOTES:

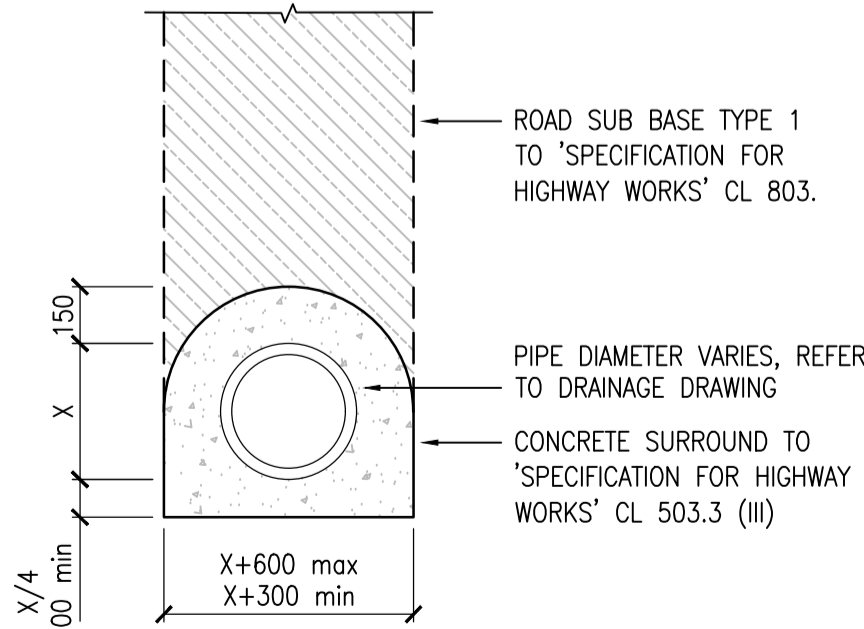
- ALL DIMENSIONS IN MILLIMETRES.
- TRENCH WIDTH "W" ARE MINIMUM WIDTHS TO ALLOW THE PROPER PLACING AND COMPACTION OF BEDDING & ALL SHEETING, ETC MUST BE PLACED OUTWITH THIS. THE OVERALL TRENCH WIDTH MUST NOT EXCEED THE MAXIMUM TRENCH WIDTH STATED.
- WHEN PERMITTED, BATTERING THE SIDES OF TRENCHES SHALL NOT EXTEND BELOW A LEVEL OF 300mm ABOVE THE TOP OF THE PIPE BARREL.
- IN ROCK THE DEPTH OF GRANULAR BEDDING BELOW PIPE BARRELS & UNDER SOCKETS TO BE INCREASED TO 200mm.
- DRAINAGE TRACKS BELOW ROADS BACKFILLED TO CL 36.3 OF S.A.D.S.S. SPECIFICATION. ALTERNATIVELY, BACK FILL USING SELECTED 'AS DUG' MATERIAL TO THE APPROVAL OF THE DRAINAGE AND ROADS AUTHORITY.
- PIPELINES & MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH SERIES 500 & 600 OF THE THIRD EDITION OF THE 'STANDARD SPECIFICATION FOR WATER & SEWERAGE SCHEMES' AS PUBLISHED BY W.R.C. EXCEPT WHERE AMENDED BY SCOTTISH WATER SPECIFICATION & DRAWINGS.
- ALL PRECAST CONCRETE UNITS TO BE REINFORCED & CONFORM TO B.S.5911.
- ALL JOINTS BETWEEN P.C. UNITS TO BE MADE WATERTIGHT BY THE APPLICATION OF CEMENT MORTAR, "TOKSTRIP" OR OTHER SIMILAR APPROVED EQUAL.
- THE LOWEST CHAMBER RING BEARING ON THE FOUNDATION & THE HIGHEST CHAMBER RING RECEIVING THE COVER SLAB SHALL HAVE PLAIN ENDS & BE BEDDED IN CEMENT MORTAR.
- MANHOLE ACCESS COVER & STEP IRON POSITIONS TO BE LOCATED TO GIVE GREATEST FREE AREA OF BENCHING IMMEDIATELY BELOW.
- MANHOLE COVERS TO BE GRADE 'A' REF. M.A.60 TO BS 497 DOUBLE TRIANGULAR COVER & FRAME 150mm DEEP WITH 675mm SQUARE OPENING IN DUCTILE IRON & BEARING THE REGISTERED CERTIFICATION MARK OF THE BRITISH STANDARDS INSTITUTION.
- STEP IRONS SHOULD NOT PROTRUDE INTO 675mm SQUARE ACCESS OPENING IN COVER SLAB.
- PRECAST CONCRETE COVER SLABS TO BE HEAVY DUTY.
- TOP STEP IRON TO BE LOCATED NOT LESS THAN 500mm & NOT GREATER THAN 700mm FROM THE FINISHED MANHOLE COVER LEVEL.
- CHANNELS MORE THAN 450mm IN DEPTH TO HAVE ONE OR MORE STEP IRONS IN A RECESS OR TOE HOLES & A HANDRAIL OR POST WITHIN EASY REACH.
- CONCRETE FOUNDATION TO BE SCABBLED BEFORE PLACING OF GRANOLITHIC FINISH.
- MANHOLES ON SEWERS OF 600mm DIAMETER & OVER TO BE PROVIDED WITH SAFETY CHAINS ACROSS THE MOUTH OF THE SEWER ON THE DOWNSTREAM SIDE & 25ø SOLID BAR HANDRAIL TO BE PROVIDED ON THE EDGES OF ALL BENCHING ETC.
- FOR MANHOLES 4.5m TO 6.0m DEEP CHAMBER RINGS ARE TO HAVE A 150mm THICK CONCRETE SURROUND BELOW THE 4.5m DEPTH.
- ALL METALWORK TO BE HOT-DIP GALVANISED TO B.S. 729 AFTER MANUFACTURE.
- WHERE DOWNSTREAM PIPE IS LARGER DIAMETER THAN UPSTREAM PIPE IN MANHOLE, SOFFITS SHOULD BE KEPT LEVEL UNLESS STATED OTHERWISE IN MANHOLE SCHEDULES OR DRAINAGE LONG SECTIONS.
- REINFORCED CONCRETE SEATING RINGS 65mm DEEP ARE AVAILABLE FROM SOME MANUFACTURERS WHICH WOULD REPLACE THE BRICK BEDDING COURSES.
- FOR SHALLOW MANHOLES LESS THAN 1.5 METRES FROM COVER LEVEL TO BENCHING THE MANHOLE ACCESS SHALL BE LOCATED OVER THE MAIN PIPE RUN.
- AT CHANGES OF DIRECTION THE INTERSECTION POINT OF PIPELINES AT MANHOLES SHOULD BE LOCATED TO ACHIEVE AS LONG AN OPEN CHANNEL AS POSSIBLE WITHIN THE CONSTRAINTS OF MAINTAINING THE REQUIRED WIDTH OF BENCHING FOR ACCESS.
- SITE STAFF SHOULD BE CONSULTED BEFORE EACH MANHOLE BASE IS CONSTRUCTED.
- FROM B.S. 8301 THE MINIMUM INTERNAL DIAMETER FOR ALL MANHOLE CHAMBERS SHALL BE 1200mm (THIS IS DUE TO THE INVERT BEING GREATER THAN 1.5m IN MOST CASES).
- ALL PIPES ≤450mm DIA. TO BE TWIN-WALLED STRUCTURAL UPVC.
- ALL PIPES >450mm DIA. AND ABOVE TO BE CONCRETE.
- ALL DRAINAGE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH BS EN 752:2008, BS EN 12065-1:2000, BS EN 1610:1998 AND CURRENT BUILDING REGULATIONS.

GENERAL NOTES TO BEDDING TYPES S AND Z

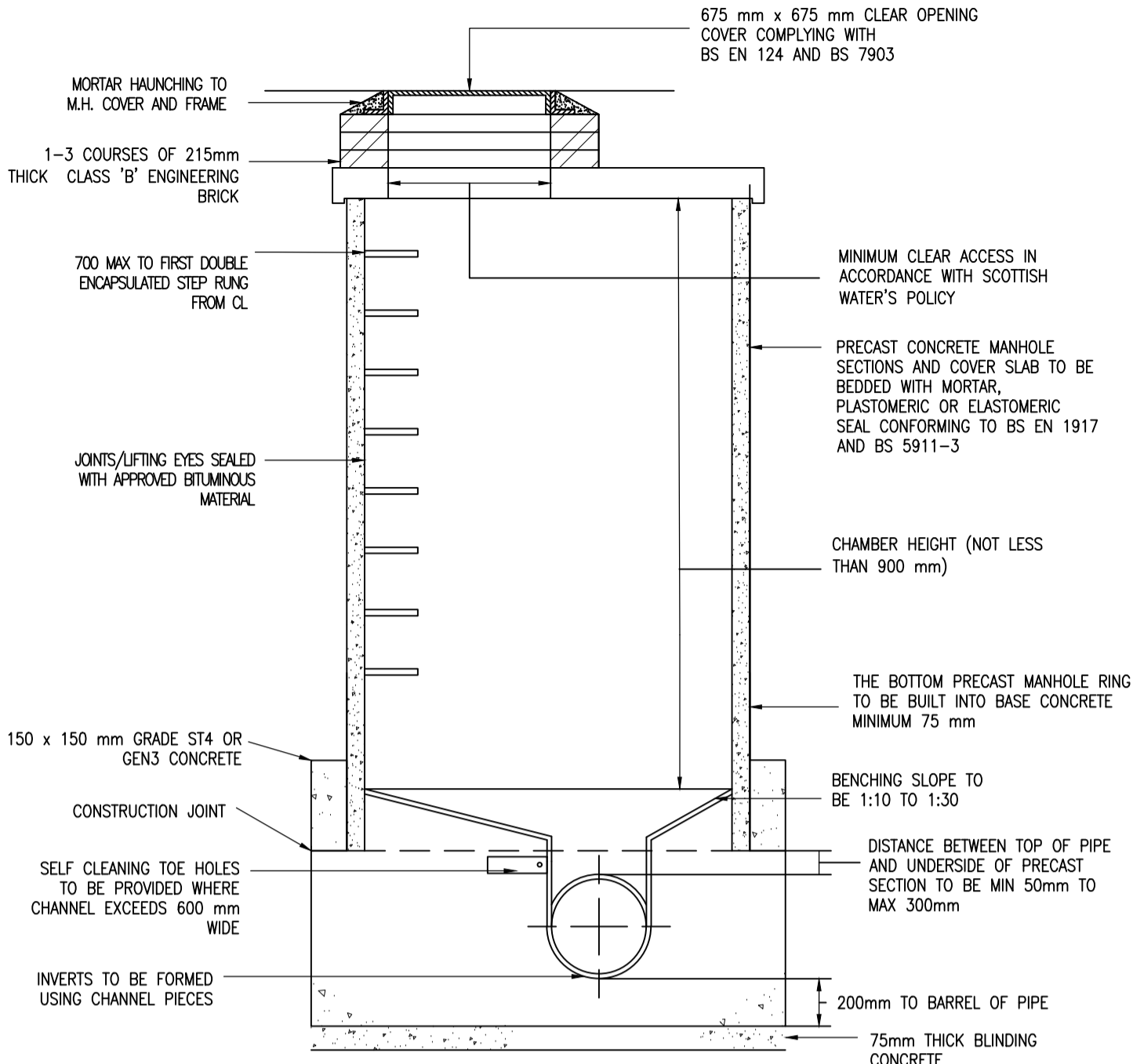
- DETAILS ARE TO BE READ IN CONJUNCTION WITH 'SPECIFICATION FOR HIGHWAY WORKS' APPENDIX 5/1.
- DIMENSION X IS EXTERNAL DIAMETER OF PIPE.
- THE CONCRETE BED OR SURROUND MAY EXTEND TO THE SIDE OF THE TRENCH OR BE OF MINIMUM WIDTH. CLASS 8 MATERIAL IS TO BE USED TO FILL ANY VOIDS SO FORMED.
- FOR TYPE Z TRENCH THE CONCRETE COVER MAY BE FORMED TO A RADIUS, BATTER OR HORIZONTAL SURFACE. MIN. COVER OF CONCRETE SHALL BE 150MM.



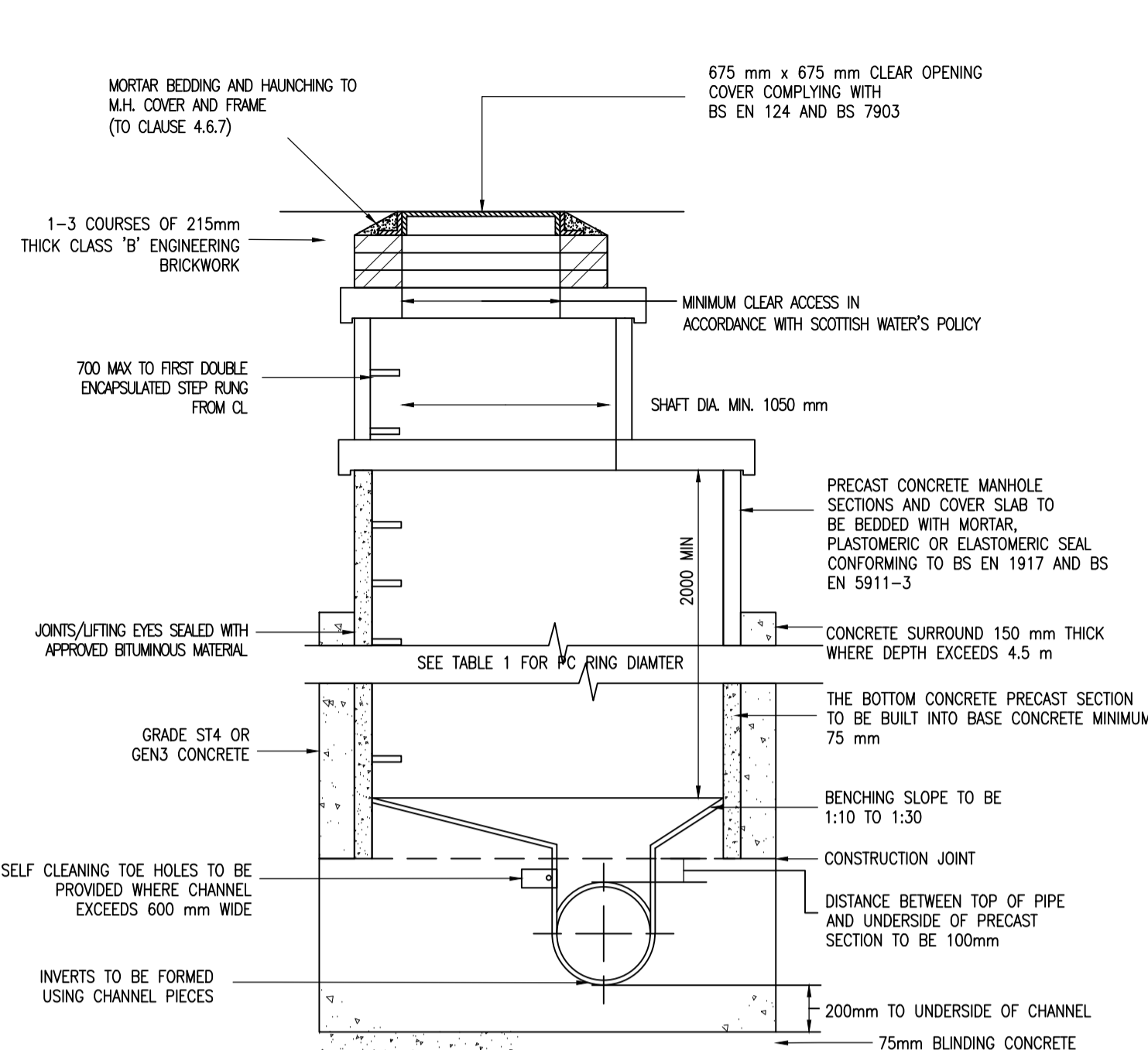
SPECIFICATION FOR HIGHWAY WORKS
TYPE 'S' TRENCH AND BEDDING
SCALE 1:20



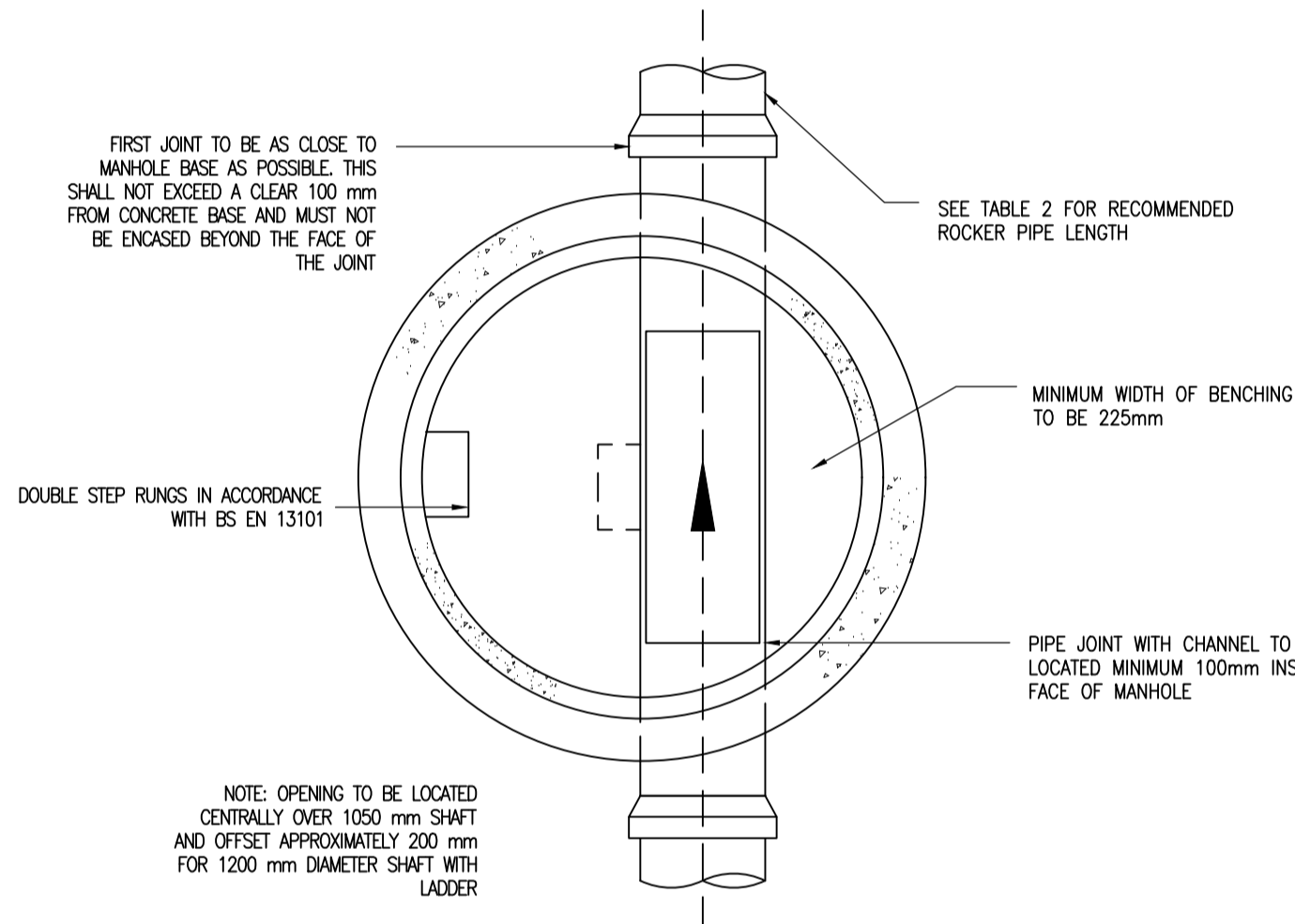
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TYPE 'Z' TRENCH AND BEDDING
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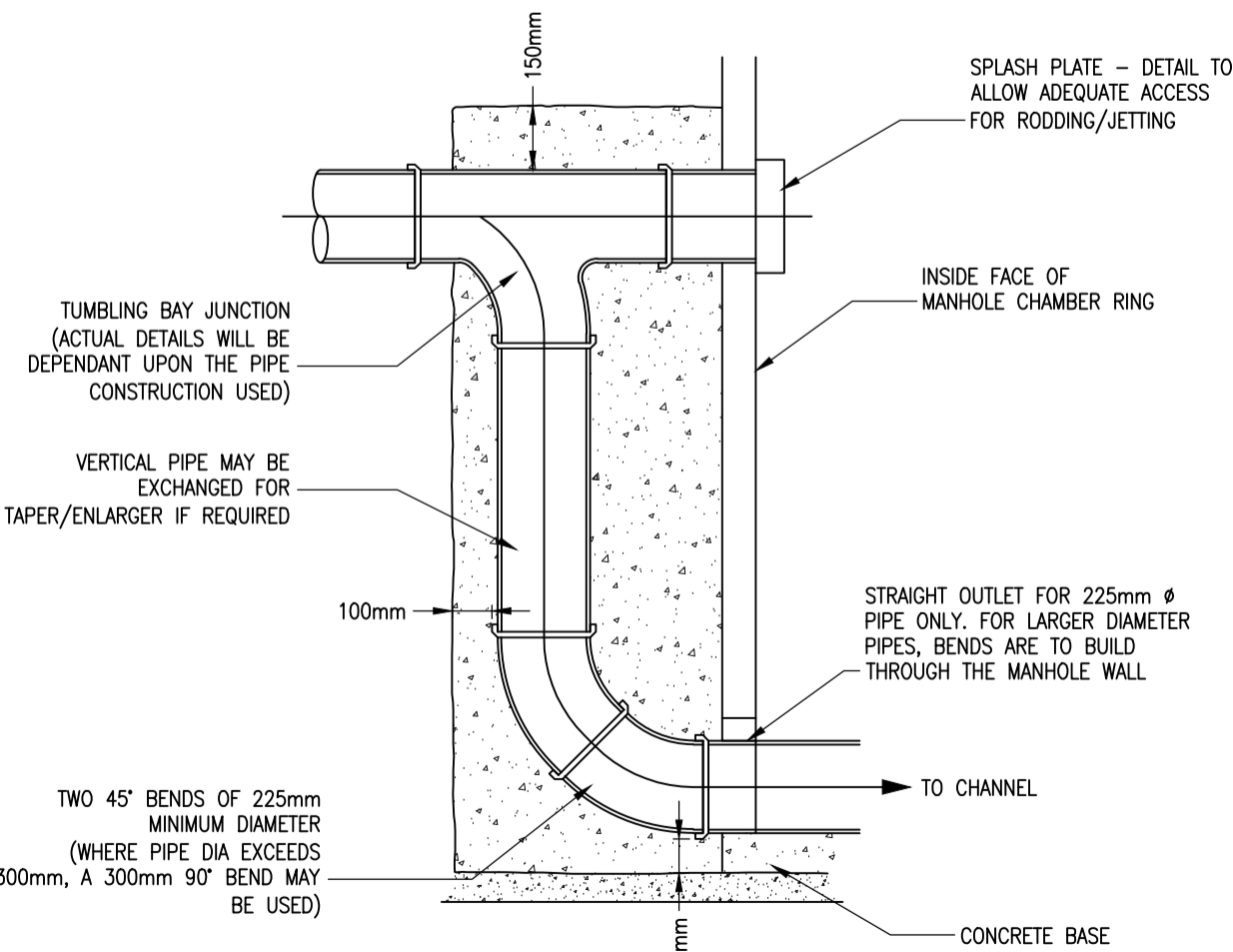
TYPICAL MANHOLE DETAIL - TYPE B
SCALE 1:25



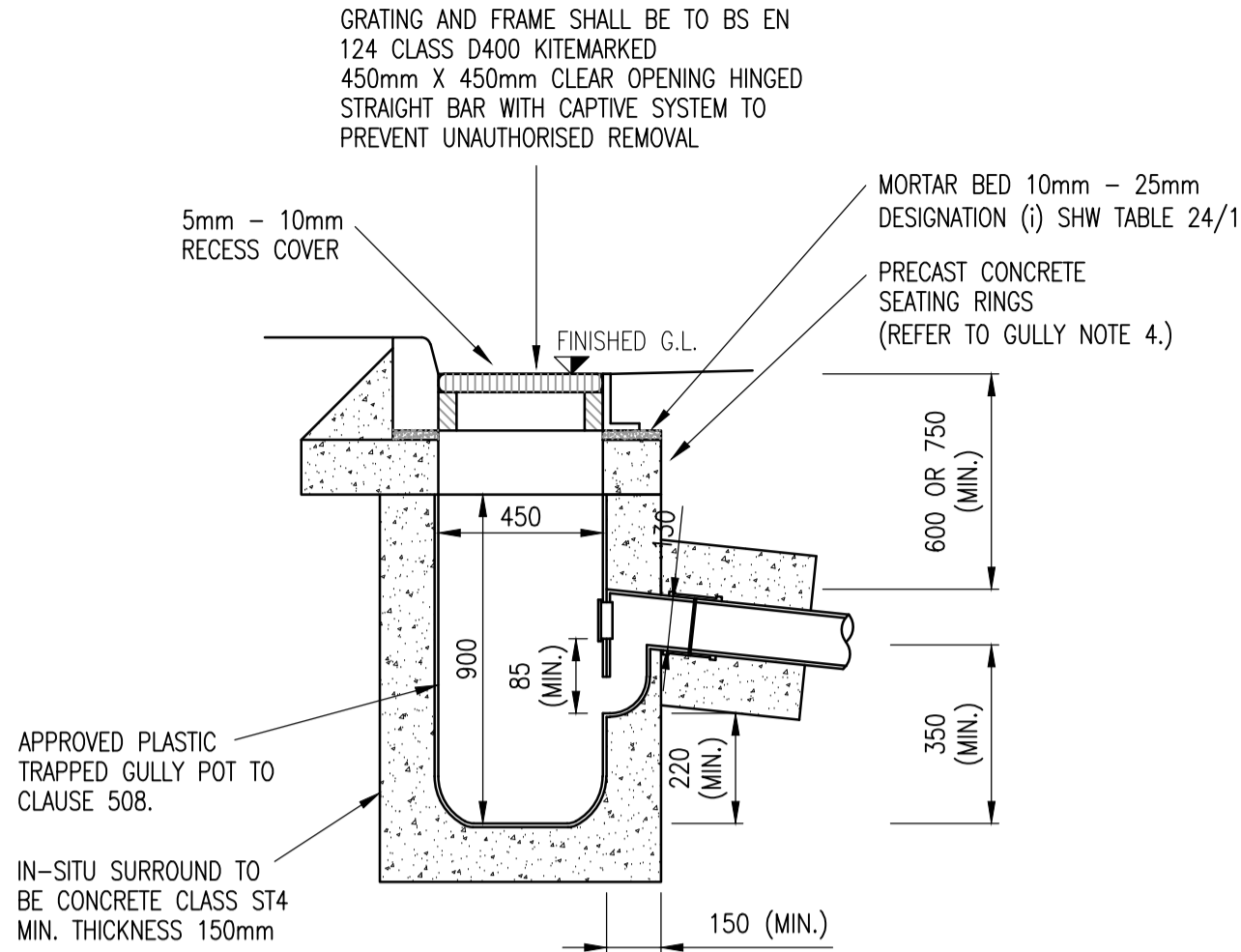
TYPICAL MANHOLE DETAIL - TYPE A
SCALE 1:25



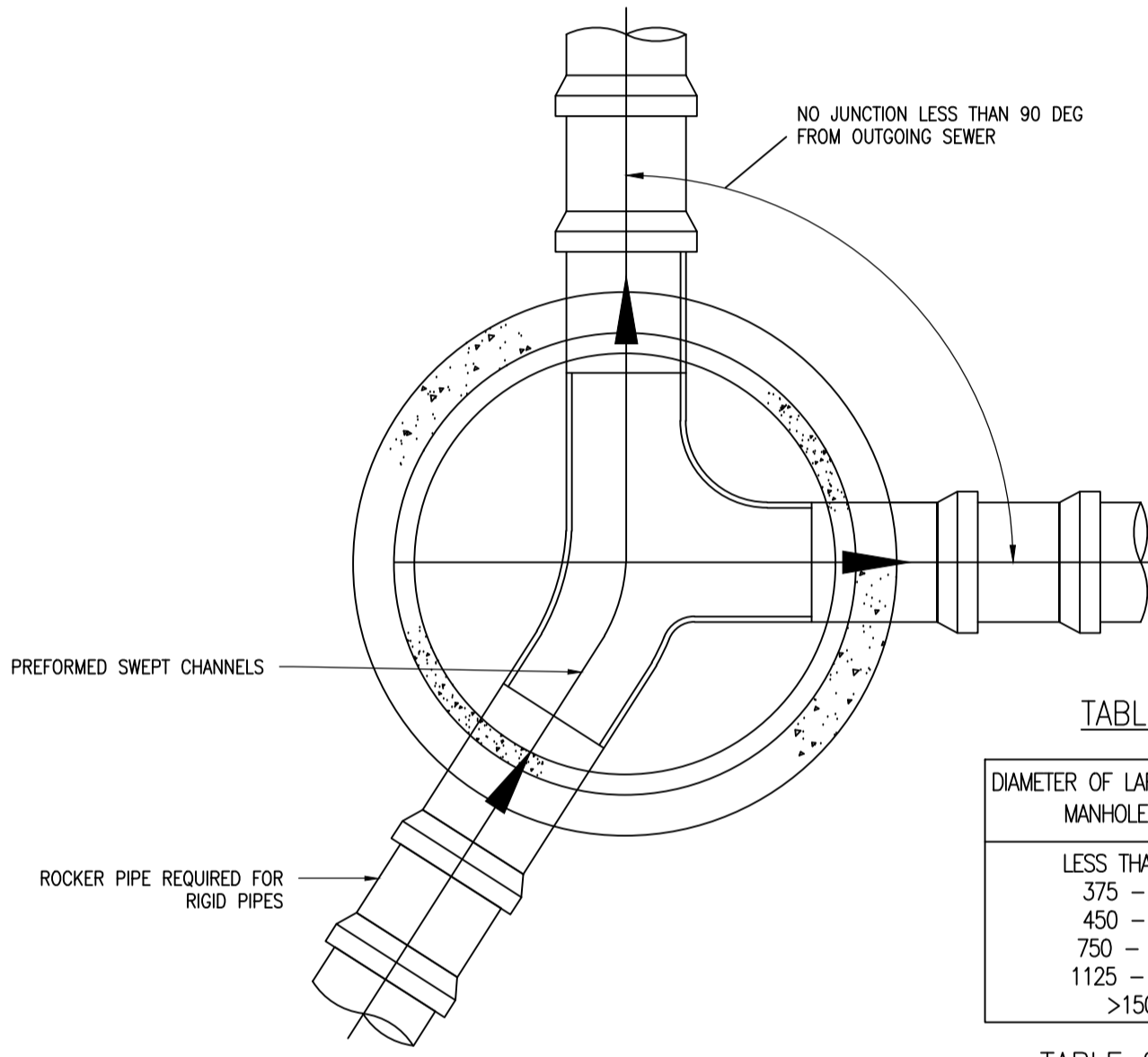
TYPICAL MANHOLE DETAIL - TYPE A
SCALE 1:25



EXTERNAL VERTICAL BACKDROP
TYPICAL DETAIL



TYPICAL PLASTIC ROAD GULLY
(scale 1:20)



ROCKER PIPE SECTIONAL PLAN
SCALE 1:25

Do not scale from this drawing.

GULLY NOTES

- GRATING AND FRAME IN ACCORDANCE WITH BS EN 124 CLASS D400 (SINGLE PIECE, HINGED, NON-ROCK). SIZE TO BE APPROPRIATE FOR 450mm DIAMETER GULLY POT. FRAME TO BE 100mm DEEP AND SHOULD BE KITEMARKED IN ACCORDANCE WITH S.H.W.
- THE MINIMUM DEPTH FROM THE TOP OF THE GRATING TO THE TOP OF THE GULLY OUTLET IS TO BE 600 - 750mm.
- GULLY GRATING SHOULD BE SET TO 6mm BELOW ROAD PROFILE ON A FULL MORTAR BED (10mm-20mm) TO S.H.W. CLAUSE 2400 DESIGNATION (i).
- MARSHALLS PRECAST SEATING RINGS (OR EQUAL APPROVED) ARE TO BE USED TO BRING GULLY GRATING AND FRAME TO FINISHED SURFACE LEVELS. BRICKWORK SHALL NOT BE USED UNLESS AGREED WITH THE ROAD INSPECTOR ON SITE..
- GULLY POTS SHOULD BE TRAPPED ONLY AND HAVE RODDING EYES AND STOPPERS TO BS 5911 PART 2 1982 AND BE 450mm x 900mm DEEP. THE STOPPERS SHALL COMPLY WITH THE REQUIREMENTS OF BS 5911-4 AND BS EN 1917.
- GULLY POTS SHOULD BE SURROUNDED WITH 150mm THICK CONCRETE CLASS ST4.
- GULLY CONNECTION TO BE SURROUNDED WITH CONCRETE CLASS ST4. 150mm MINIMUM THICKNESS TO A DEPTH ONE METRE BELOW FORMATION.
- GULLY GRATING NORMALLY SHALL BE D400 TYPE AS APPROPRIATE WITH MINIMUM FRAME DEPTH OF 100mm.
- THE BACK FACE OF THE GULLY POT SHALL BE IN A VERTICAL LINE WITH THE FRONT FACE OF THE KERB AND THIS WILL PRECLUDE CORBELLED BRICKWORK.
- ALL GULLY POTS TO BE TRAPPED.
- GULLY INSTALLATION ALL IN ACCORDANCE WITH BBA SPECIFICATION AND APPROVAL REQUIREMENTS.

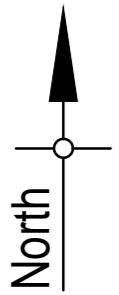
TABLE 1: MANHOLE DIAMETERS

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200
375 - 450	1350
450 - 700	1500
750 - 1050	1800
1125 - 1500	2100
>1500	CONSULT SCOTTISH WATER

TABLE 2: ROCKER PIPE DIMENSIONS

NOMINAL DIAMETER (mm)	MAXIMUM EFFECTIVE LENGTH (m)
150 - 600	0.6
601 - 750	1.00
OVER 750	1.25

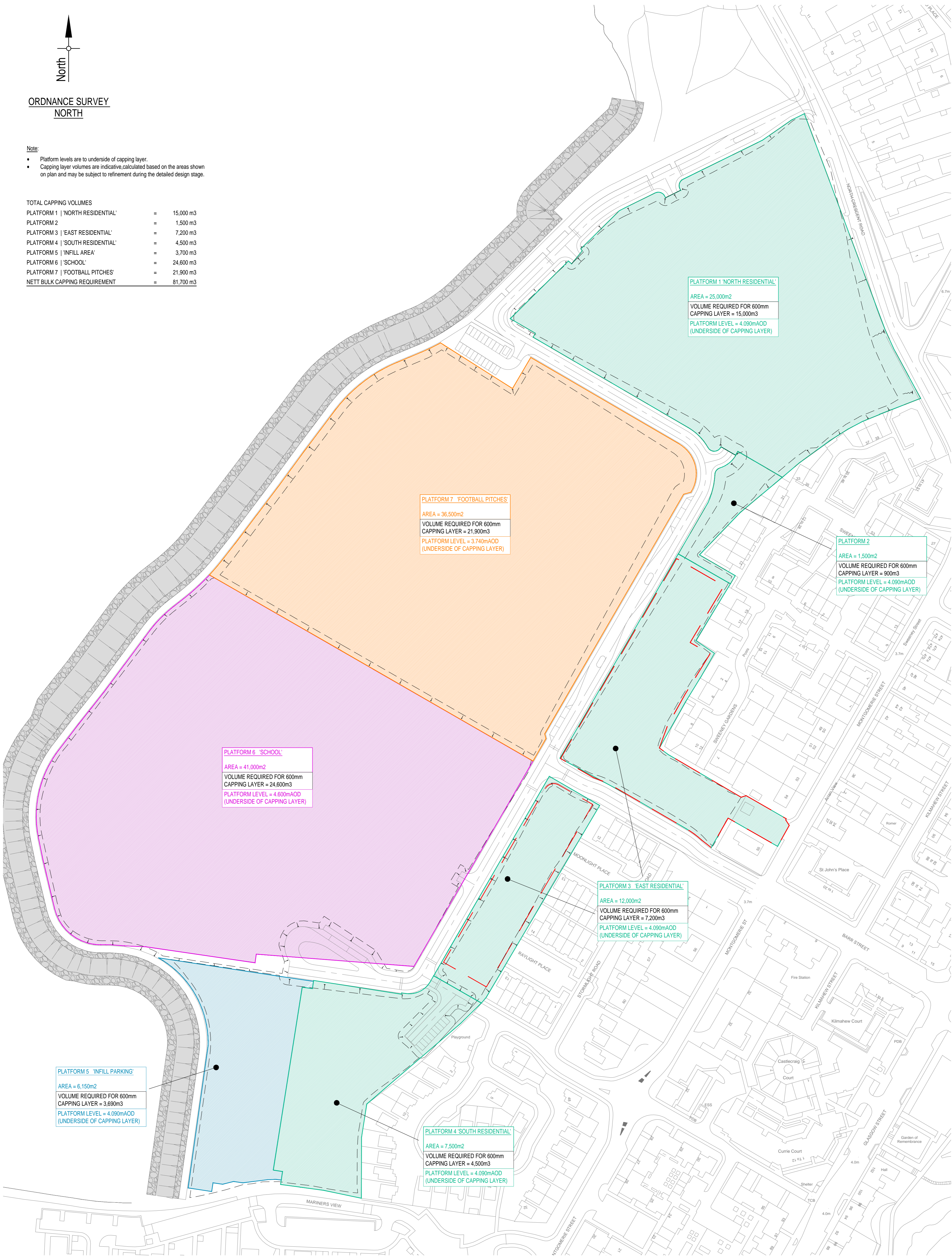
Rev.	Date	Description	Drwn.	Chkd.	Appd.
FAIRHURST			Client:		
225 Bath Street GLASGOW G2 4GZ Tel: 0141 204 8800 Fax: 0141 204 8801			NORTH AYRSHIRE COUNCIL		
Project Title: ARDROSSAN NORTH SHORE					
Drawing Title: ENABLING WORKS DRAINAGE CONSTRUCTION DETAILS SHEET 1					
Scale at A1: AS SHOWN		Status: Tender			
Drawn: RD		Checked:		Approved:	
Date: 23/09/21		Date:		Date:	
Drawing No.: 137240/2012				Revision: -	



ORDNANCE SURVEY
NORTH

- Note:
- Platform levels are to underside of capping layer.
 - Capping layer volumes are indicative,calculated based on the areas shown on plan and may be subject to refinement during the detailed design stage.

TOTAL CAPPING VOLUMES		
PLATFORM 1 'NORTH RESIDENTIAL'	=	15,000 m3
PLATFORM 2	=	1,500 m3
PLATFORM 3 'EAST RESIDENTIAL'	=	7,200 m3
PLATFORM 4 'SOUTH RESIDENTIAL'	=	4,500 m3
PLATFORM 5 'INFILL AREA'	=	3,700 m3
PLATFORM 6 'SCHOOL'	=	24,600 m3
PLATFORM 7 'FOOTBALL PITCHES'	=	21,900 m3
NETT BULK CAPPING REQUIREMENT	=	81,700 m3



Rev.	Date	Description	Drawn	Checked	Approved

Notes:

Client:
NORTH AYRSHIRE
COUNCIL

Project Title:
ARDROSSAN NORTH SHORE

Drawing Title:
ENABLING WORKS
INDICATIVE PLATFORM AREAS
WITH CAPPING REQUIREMENTS

FAIRHURST
225 Bath Street,
GLASGOW, G2 4QZ
Tel: 0141 204 8800 Fax: 0141 204 8801

Scale at A1: 1:1000	Status: Tender	
Drawn: RD	Checked:	Approved:
Date: 23/09/21	Date:	Date:
Drawing No.: 137240/2054	Revision: —	