

- Legend**
- Topographical Survey Boundary
 - Flood Defence Structure
 - Proposed Vehicular Restraint Barriers, see note 9.
 - Proposed Highway
 - Proposed High Friction Surfacing
 - Proposed Footway
 - Proposed Unbound Access Track
 - Proposed Landscaping
 - Proposed Culvert Transfer Slab
 - Proposed Gabion Mattress
 - Proposed 6m High Street Lighting Column

- Notes**
1. Do not scale from this drawing
 2. All dimensions are in metres unless noted otherwise.
 3. The details shown on this drawing are based on a RIBA Stage 4 design for approval produced for a detailed planning application. The highway design shown is for adoption by Newport City Council and subject to design approval. The details will need to be reviewed and revised during subsequent design stages.
 4. The topographical survey details shown within the topographical survey boundary has been provided by Natural Resources Wales (NRW) on 05/08/2020 from a survey completed by John Vincent Surveys LTD in July 2020. The survey information outside the boundary is a combination of surveys received from NRW as part of the original tender. No responsibility can be given for the accuracy of these surveys.
 5. Refer to all other Engineering and Architects Drawings and notify the Civil Engineer of any discrepancies.
 6. This drawing is to be read with all other Engineers drawings and specifications.
 7. The construction thickness shown assume a CBR of 2% due to the presence of variable made ground. CBR values to be confirmed prior to construction, refer to table for alternative foundation thicknesses for differing CBR.
 8. Build-ups assume no allowances for construction traffic.
 9. Barrier to be Containment Level N1, Impact Severity B and Working Width W4. Terminal Performance Class P1. Minimum 600mm set back from point of set back.
 10. Location, size, specification and electrical supply to street lighting columns shown are indicative only. Detailed design to be undertaken by Newport City Council.
 11. Details shown for the proposed highway and accompanying drainage infrastructure. No allowance shown for the proposed flood defence works.
 12. Refer to landscaping and flood defence structure drawing 274580-ARP-XX-XX-DR-CX-2003, 2004, 3000 and 3001 for specification of removable bollards, fences and gates.
 13. Refer to drawing 274580-ARP-XX-XX-DR-CX-1160 for surcharging requirements.
 14. Contractor to reinstate all other areas that extend beyond the finishes shown to replicate existing.



HIGHWAY FOUNDATION THICKNESS
DMRB CD225

CBR* (%)	SUBBASE THICKNESS (mm)	CAPPING THICKNESS (mm)
2	250	430
3	230	380
4	220	320
5	200	250

* See Note 7

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE COURSE	45mm - 50mm SURFACE COURSE-HRA 30/14 F 40/60PEN DES CL 911 WITH 20mm. PCC PSV 65 TO BS EN 13108-4	40
BINDER COURSE	20mm DENSE BINDER COURSE TO EN 13108, PART 1. AC 20 DENSE BIN 100/150	60
DENSE BASE	40mm DENSE BASE COURSE TO EN 13108, PART 1. AC 40 DENSE BASE/BIN 100/150	200
SUB BASE*	DTp TYPE 1 GRANULAR MATERIAL TO MCHW CLAUSE 803.	250
CAPPING*	TYE 6F CAPPING MATERIAL TO MCHW CLAUSE 613	430

* See Note 7

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE COURSE	6mm DENSE SURFACE COURSE TO EN 13108, PART 1. AC 6 DENSE SURF 100/150	20
BINDER COURSE	20mm DENSE BINDER COURSE TO EN 13108, PART 1. AC 20 DENSE BIN 100/150	60
SUB BASE*	DTp TYPE 1 GRANULAR MATERIAL	150

* See Note 7

LAYER	SPECIFICATION	THICKNESS (mm)
LANDSCAPING	GRASS MIX/PLANTING TO BE CONFIRMED	
TOPSOIL	TOPSOIL TO SHW CLAUSE 618	150
SUB-SOIL	INERT SUB SOIL	150
FORMATION	MATERIAL TO BE LOOSELY SCARIFIED	200

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE COURSE	DTp TYPE 1 GRANULAR MATERIAL TO SHW CLAUSE 803	150
BASE COURSE	FULLY COMPACTED 6F CAPPING MATERIAL TO SHW CLAUSE 613 UNDERLAIN BY TERRAM 1000 GEOTEXTILE OR EQUIVALENT	150

P03	REVISED FOR PLANNING RESUBMISSION	CB	CL	DL	25/06/21
P02	ISSUED FOR TENDER	CB	CL	DL	11/05/21
P01	ISSUED FOR PLANNING	CB	SW	SW	24/02/21
Rev.	Description	Drawn	Chkd.	Appd.	Issue Date

Cyfoeth Natural
Cymru
Natural Resources
Wales

ARUP

Project Name:
STEPHENSON STREET FLOOD DEFENCE SCHEME

Drawing Title:
**EAST BANK ROAD
HIGHWAY CONSTRUCTION FINISHES
SHEET 1 OF 2**

Subsidiary:
D2 - FOR TENDER

Internal Project Number: 274580	Scale: 1:500	Rev. P03
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Drawing Number:
274580-ARP-XX-XX-DR-CX-1120