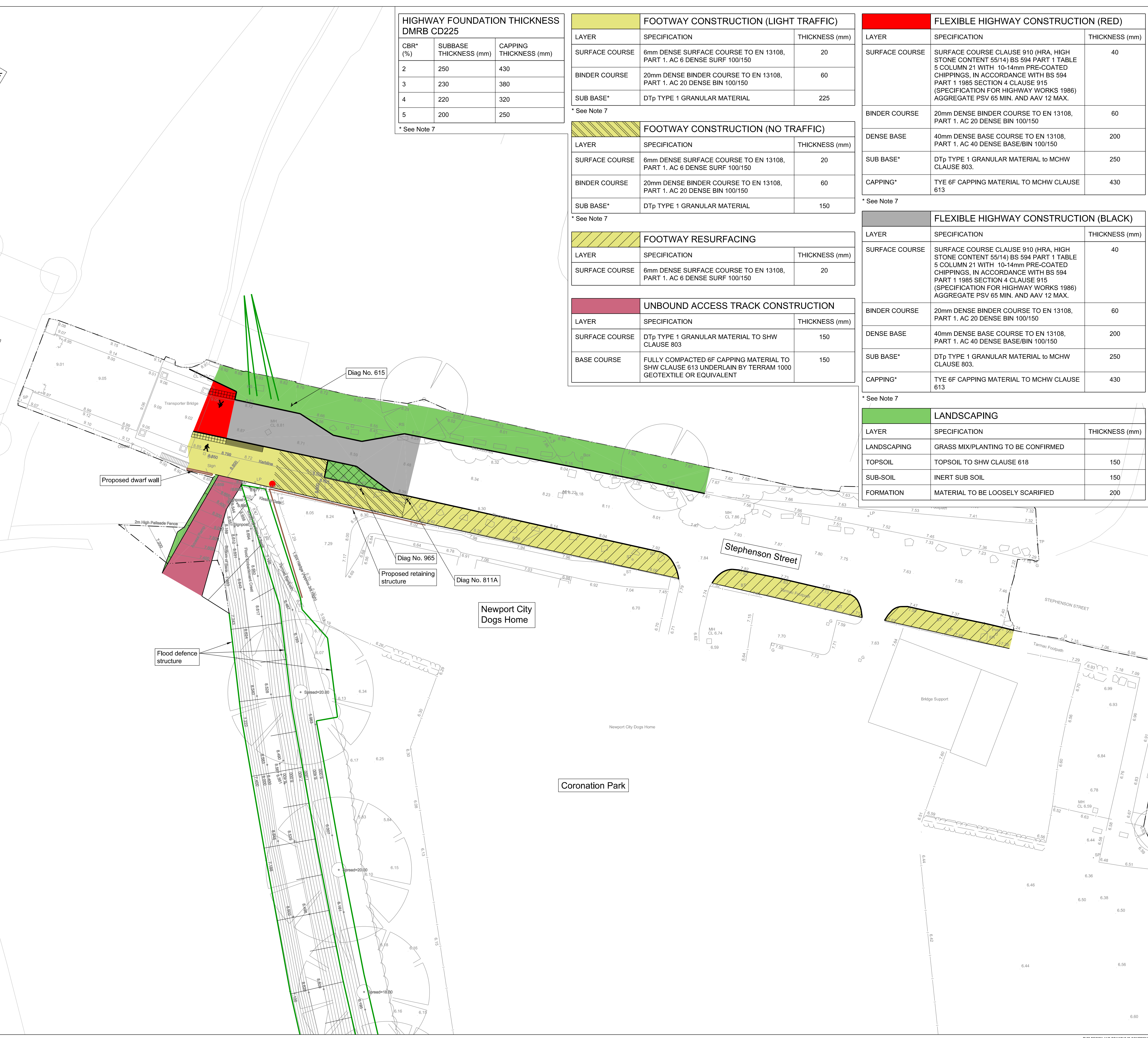




River Usk

Newport Transporter Bridge



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

FOOTWAY CONSTRUCTION (LIGHT TRAFFIC)

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	225

* See Note 7

FOOTWAY CONSTRUCTION (NO TRAFFIC)

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

FOOTWAY RESURFACING

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE COURSE	6mm DENSE SURFACE COURSE TO EN 13108, PART 1. AC 6 DENSE SURF 100/150	20

UNBOUND ACCESS TRACK CONSTRUCTION

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

FLEXIBLE HIGHWAY CONSTRUCTION (RED)

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE COURSE	SURFACE COURSE CLAUSE 910 (HRA, HIGH STONE CONTENT 55/14) BS 594 PART 1 TABLE 5 COLUMN 21 WITH 10-14mm PRE-COATED CHIPPINGS, IN ACCORDANCE WITH BS 594 PART 1 1985 SECTION 4 CLAUSE 915 (SPECIFICATION FOR HIGHWAY WORKS 1986) AGGREGATE PSV 65 MIN. AND AAV 12 MAX.	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

FLEXIBLE HIGHWAY CONSTRUCTION (BLACK)

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE COURSE	SURFACE COURSE CLAUSE 910 (HRA, HIGH STONE CONTENT 55/14) BS 594 PART 1 TABLE 5 COLUMN 21 WITH 10-14mm PRE-COATED CHIPPINGS, IN ACCORDANCE WITH BS 594 PART 1 1985 SECTION 4 CLAUSE 915 (SPECIFICATION FOR HIGHWAY WORKS 1986) AGGREGATE PSV 65 MIN. AND AAV 12 MAX.	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

LANDSCAPING

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

Legend

- Topographical Survey Boundary
- Flood Defence Structure
- Proposed Highway (Black)
- Proposed Highway (Red)
- Proposed Footway (Occasional Traffic)
- Proposed Footway (No Traffic)
- Proposed Footway Resurfacing
- Proposed Unbound Access Track
- Proposed Landscaping
- Proposed Bioretention Area (Refer to Drainage Drawing for Details)
- Proposed 6m High Street Lighting Columns to Replace Existing

- Notes**
- Do not scale from this drawing
 - All dimensions are in metres unless noted otherwise.
 - 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.
 - 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.
 - Refer to all other Engineering and Architects Drawings and notify the Civil Engineer of any discrepancies.
 - This drawing is to be read with all other Engineers drawings and specifications.
 - 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.
 - Build-ups assume no allowances for construction traffic.
 - Vehicular restraint barriers to be DMRB CD377 containment level N1 subject to detailed design. Higher containment class may be required.
 - Location, size, specification and electrical supply to street lighting columns shown are indicative only. This is to be verified by others.
 - Details shown for the proposed highway and accompanying drainage infrastructure. No allowance shown for the proposed flood defence works.
 - Refer to landscaping and flood defence structure drawing 274580-ARP-XX-DR-CX-2003, 2004, 3000 and 3001 for specification of removable bollards, fences and gates.

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 Naturiol Cymru Natural Resources Wales

ARUP

Project Name:
STEPHENSON STREET FLOOD DEFENCE SCHEME

Drawing Title:
STEPHENSON STREET HIGHWAY CONSTRUCTION FINISHES

Subsidiary:
D2 - FOR TENDER

Internal Project Number:
274580

Scale:
1:250

Rev.
P03

Drawing Number:
274580-ARP-XX-DR-CX-1220

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 274580-ARP-XX-DR-CX-1220.dgn Internal Project: 274580-004 Internal Project: 274580-004 Internal Project: 274580-004 Internal Project: 274580-004 Internal Project: 274580-004