Appendix B18

Bridges and Major Retaining Structures

BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

BELFIELD / BLACKROCK TO CITY CENTRE CORE BUS CORRIDOR SCHEME

BRIDGES AND MAJOR RETAINING STRUCTURES

DRAWING SERIES NUMBER(S)	DRAWING SERIES DESCRIPTION
BCIDC-ARP-STR_IX-1415_XX_00-DR-CB-0001	BELFIELD / BLACKROCK TO CITY CENTRE CORE BUS CORRIDOR SCHEME. BRIDGES AND MAJOR RETAINING STRUCTURES. COVER SHEET
BCIDC-ARP-STR_KP-1415_XX_00-DR-CB-0001	BELFIELD / BLACKROCK TO CITY CENTRE CORE BUS CORRIDOR SCHEME. BRIDGES AND MAJOR RETAINING STRUCTURES. KEY PLAN
BCIDC-ARP-STR_GA-1415_XX_00-DR-CB-0001	BELFIELD / BLACKROCK TO CITY CENTRE CORE BUS CORRIDOR SCHEME. BRIDGES AND MAJOR RETAINING STRUCTURES. RETAINING WALL 01 GENERAL ARRANGEMENT

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Project Ireland 2040
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Engineering Designer: ARUP

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BCIDC	ARP	268401-00

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title: BELFIELD / BLACKROCK TO CITY CENTRE CORE BUS CORRIDOR SCHEME
BRIDGES AND MAJOR RETAINING STRUCTURES
COVER SHEET

Drawing File Name	Sheet Number	Status	Rev
BCIDC-ARP-STR_IX-1415_XX_00-DR-CB-0001	01 of 01	A	M01

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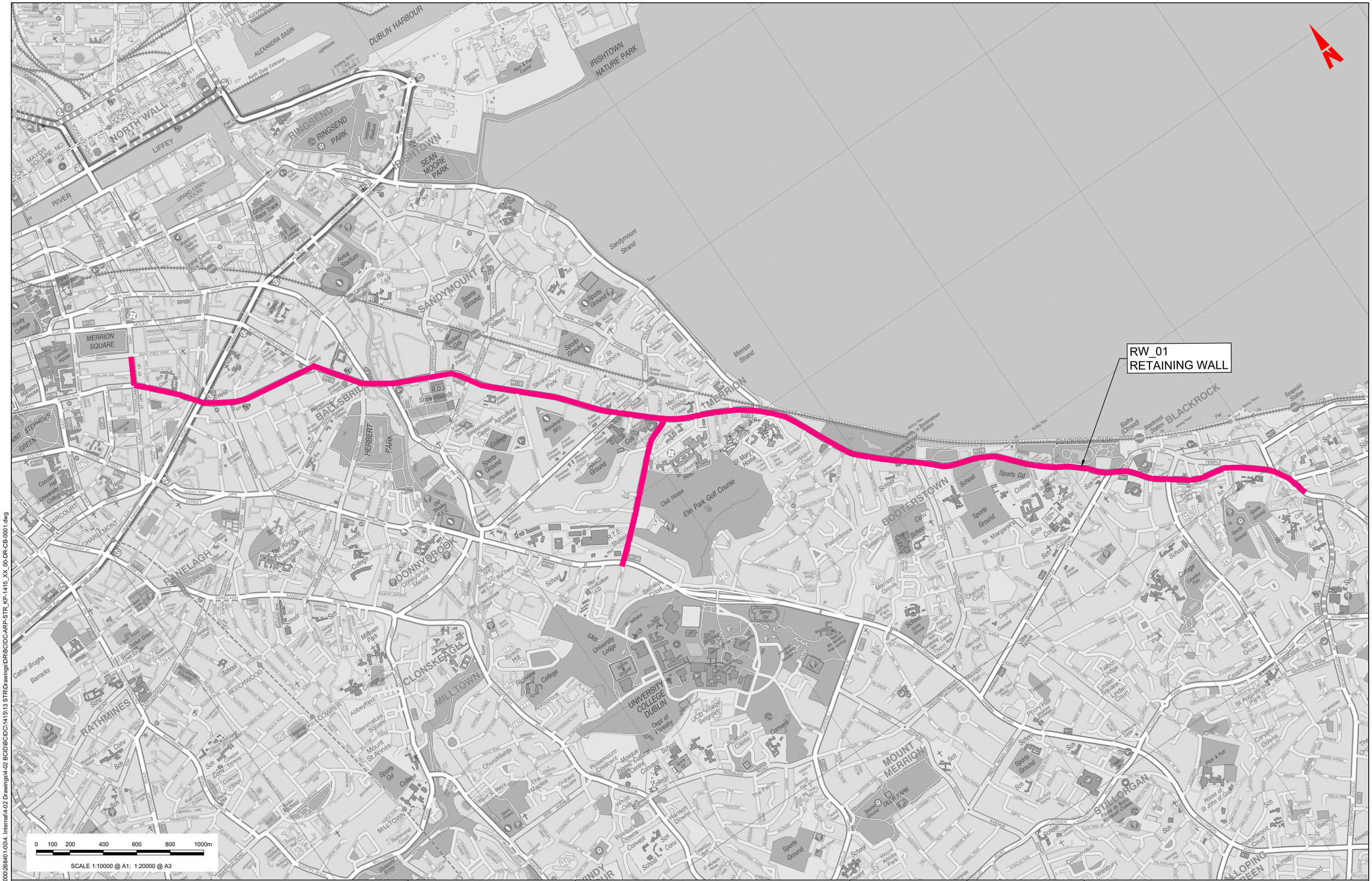

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Engineering Designer: ARUP

Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: BELFIELD / BLACKROCK TO CITY CENTRE CORE BUS CORRIDOR SCHEME BRIDGES AND MAJOR RETAINING STRUCTURES KEY PLAN

Date	Scale	Drawn	Checked	Approved
04/03/2022	1:10000 @ A1 1:20000 @ A3	BM	BB	NH

Project Code	Originator Code	QMS Code	Drawing File Name	Sheet Number	Status	Rev
BCIDC	ARP	268401-00	BCIDC-ARP-STR_KP-1415_XX_00-DR-CB-0001	01 of 01	A	M01

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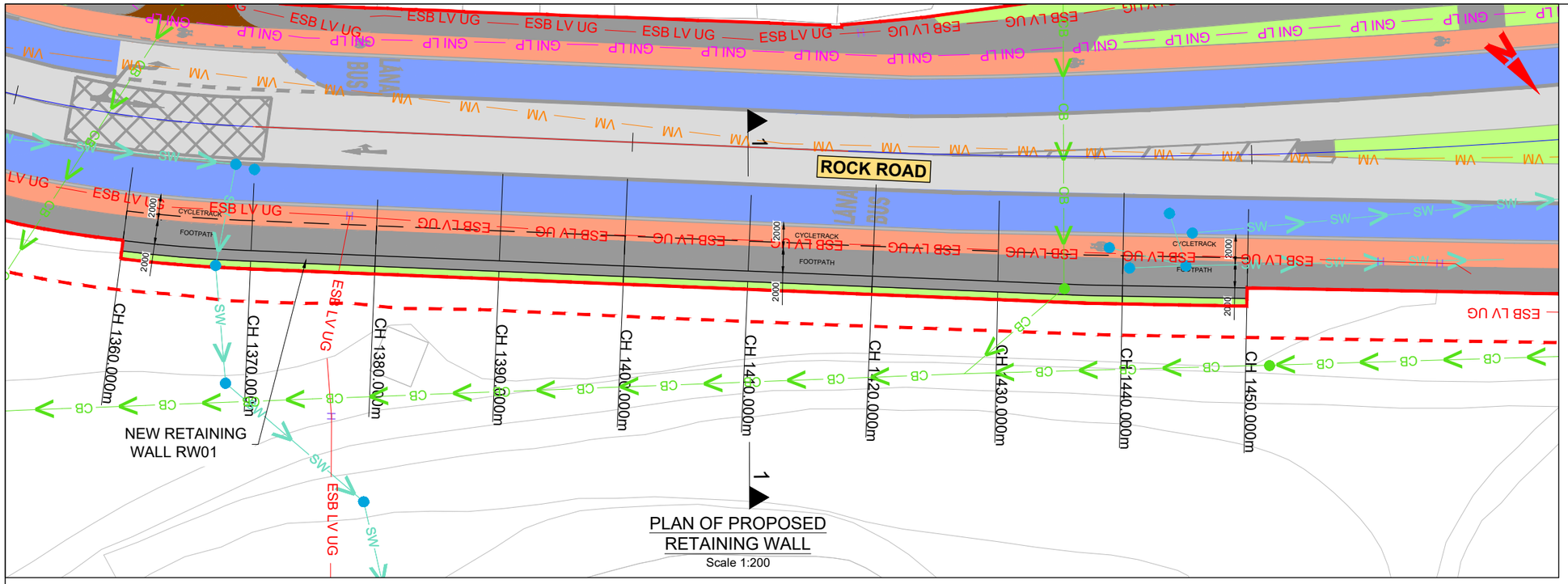
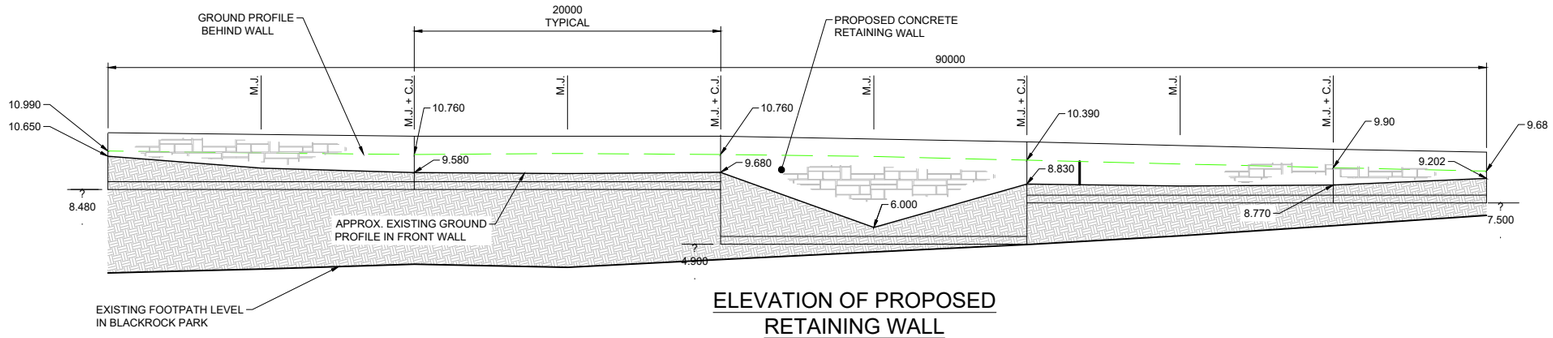


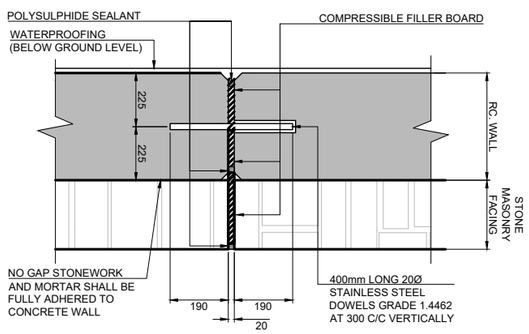
PLAN OF PROPOSED RETAINING WALL

Scale 1:200



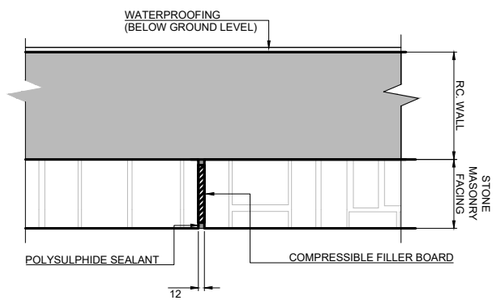
ELEVATION OF PROPOSED RETAINING WALL

Scale 1:200



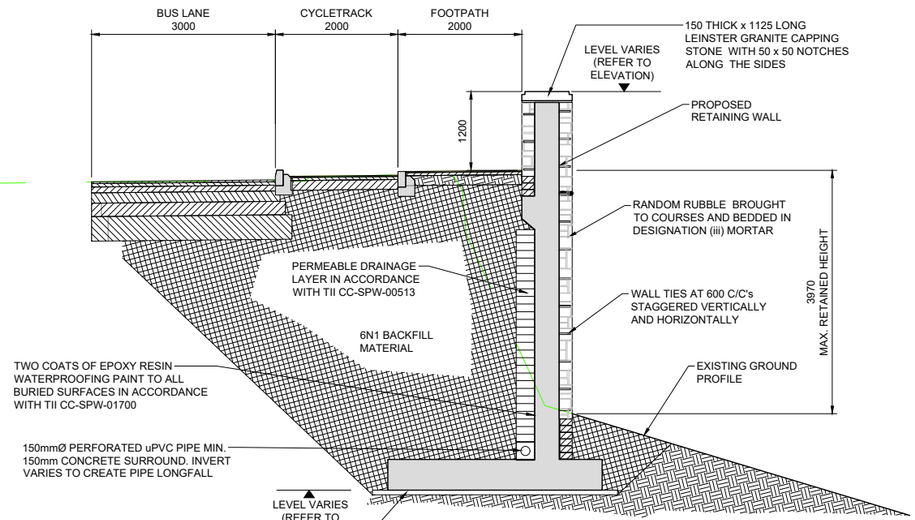
TYPICAL RC WALL AND MASONARY EXPANSION JOINT DETAIL

Scale 1:10



TYPICAL MASONARY EXPANSION JOINT DETAIL

Scale 1:10



TYPICAL RETAINING WALL CROSS SECTION 1 - 1

Scale 1:50

NOTES:

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM USING GEOID OSGM02.
3. FINISHES:
   - BURIED UNFORMED SURFACES - U1
   - BURIED FORMED SURFACES - F1
   - EXPOSED UNFORMED SURFACES (EXCLUDING AREA TO BE WATERPROOFED) - U3
   - ALL OTHER EXPOSED FORMED SURFACES - F4
4. MATERIALS:
   - LOCATION: CONCRETE GRADE:
   - RETAINING WALLS - C45/55 (50% GGBS)
   - NON-STRUCTURAL CONCRETE:
   - LOCATION: CONCRETE GRADE:
   - CONCRETE FOR BLINDING - ST1
5. BURIED CONCRETE SURFACES SHALL BE TREATED WITH TWO COATS OF EPOXY RESIN WATERPROOFING PAINT IN ACCORDANCE WITH TII CC-SPW-01700.
6. ALL EXPOSED CONCRETE SHALL BE IMPREGNATED WITH A HYDROPHOBIC PORE LINER IN ACCORDANCE WITH THE TII CC-SPW-01700.
7. EXTERNAL CONCRETE ARISES TO BE CHAMFERED 25x25 UNO.
8. INTERFACE BETWEEN NATURAL GROUND WITH 6N AND INTERFACE BETWEEN EMBANKMENT FILL WITH 6N TO BE BENCHED. MAXIMUM BENCH HEIGHT SHALL BE 0.5M AND BENCHES SHALL HAVE A MINIMUM SLOPE GRADIENT OF 5%.
9. STONE MASONRY FACING TO BE ANCHORED TO RETAINING WALL USING ANCON POST FIXED STAIFIX UNIVERSAL WALL STARTER SYSTEM AND SD21 125MM WALL TIES OR EQUIVALENT AT 600MM STAGGERED HORIZONTAL AND VERTICAL CENTRES.
10. LOCALISED SOFT SPOTS, IF PRESENT, TO BE EXCAVATED AND REPLACED WITH 6N2

LEGEND:

- FW — EXISTING FOUL WATER DRAINAGE
- CB — EXISTING COMBINED NETWORK
- VM — EXISTING VIRGIN MEDIA NETWORK
- ESB LV UG — EXISTING LV ELECTRICITY (UNDERGROUND)
- GNI LP — EXISTING LP GAS NETWORK
- SW — EXISTING STORM WATER DRAINAGE
- SITE BOUNDARY LINE
- TEMPORARY LAND TAKE

NOTE: UTILITY LOCATIONS ARE INDICATIVE ONLY AND BASED ON UTILITY PROVIDER RECORDS

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