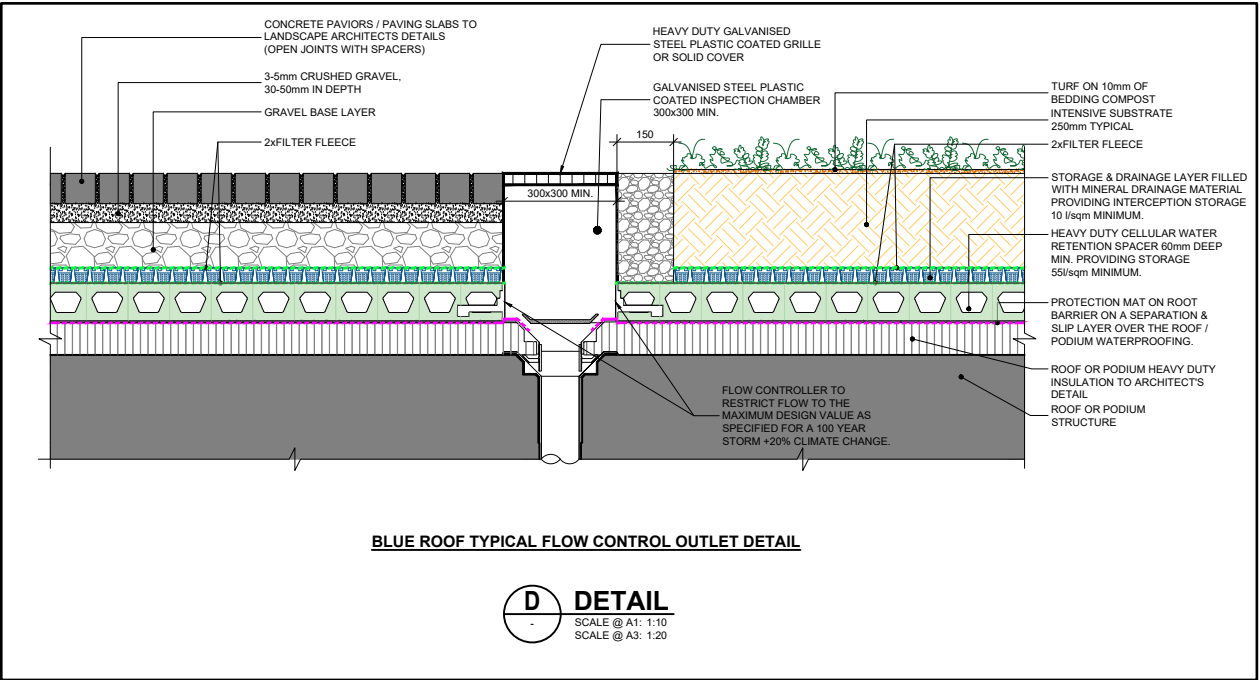


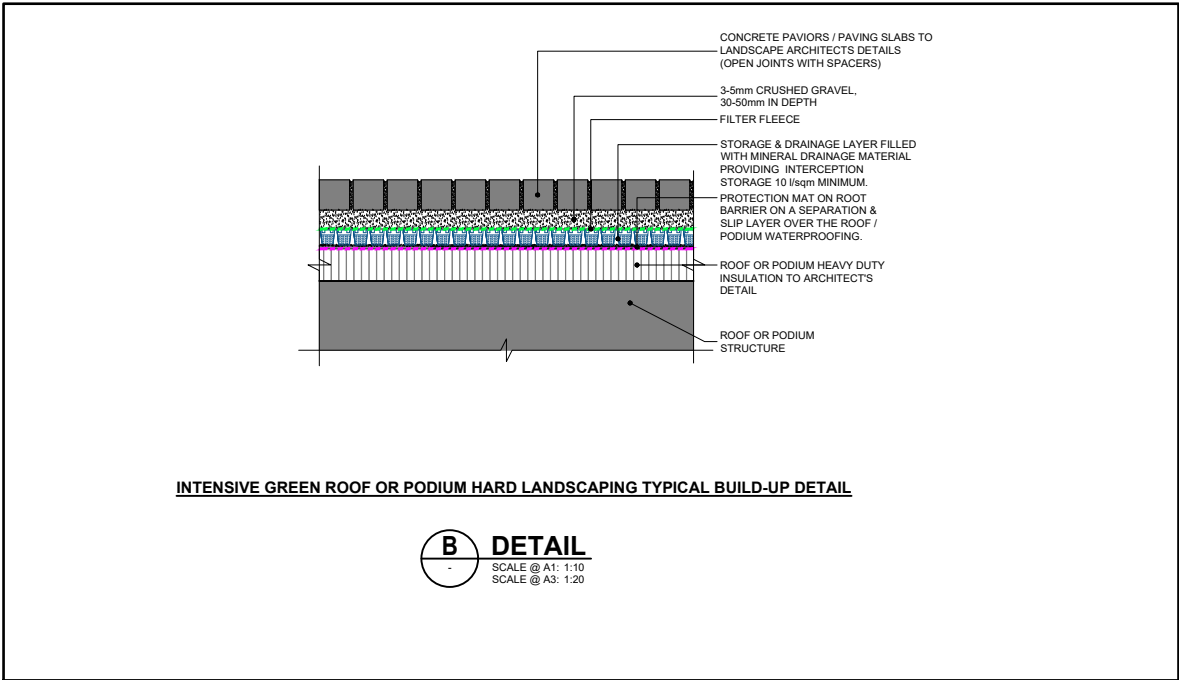
INTENSIVE GREEN ROOF OR PODIUM WITH SOFT LANDSCAPING  
SHOWING TYPICAL OUTFALL DETAIL

**A DETAIL**  
SCALE @ A1: 1:10  
SCALE @ A3: 1:20



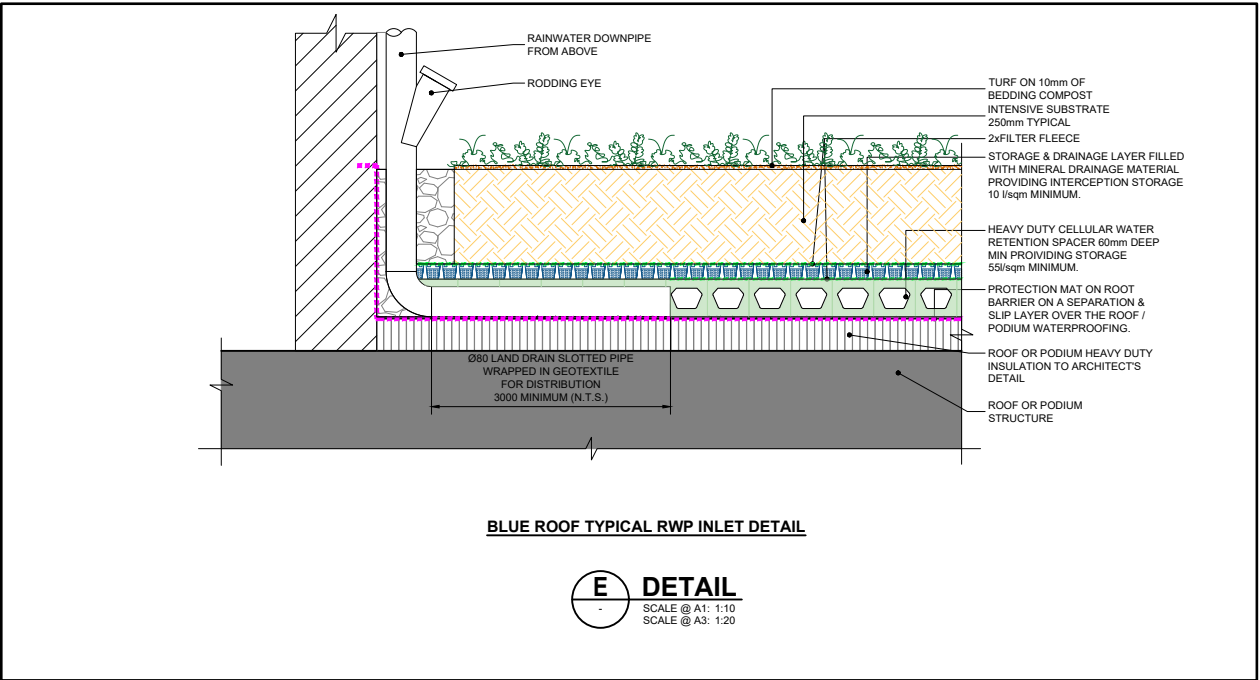
BLUE ROOF TYPICAL FLOW CONTROL OUTLET DETAIL

**D DETAIL**  
SCALE @ A1: 1:10  
SCALE @ A3: 1:20



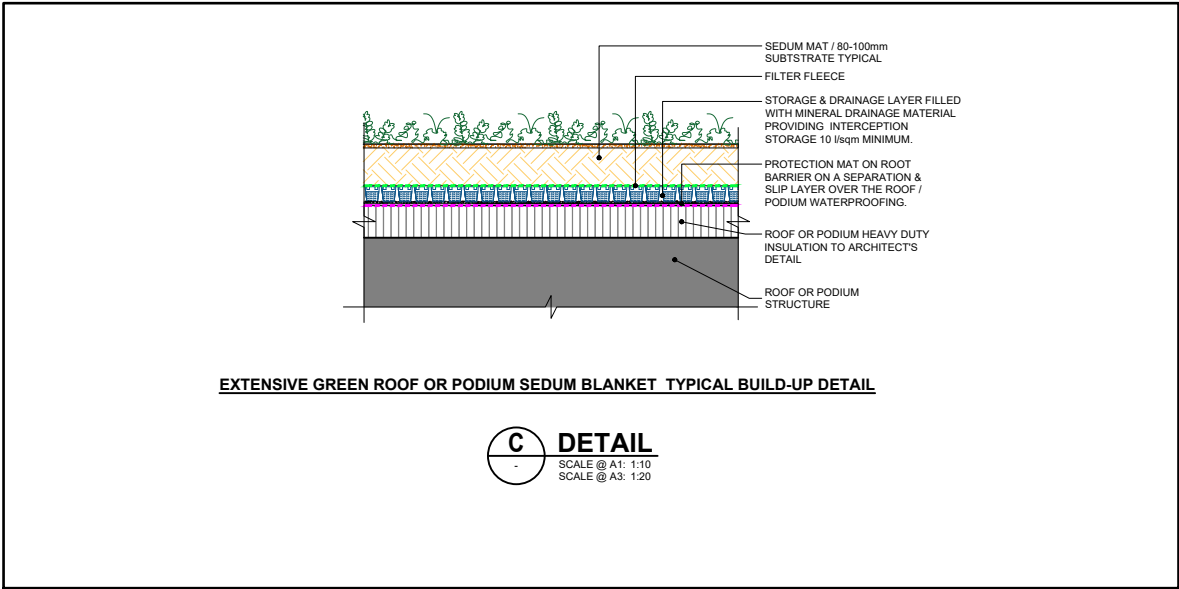
INTENSIVE GREEN ROOF OR PODIUM HARD LANDSCAPING TYPICAL BUILD-UP DETAIL

**B DETAIL**  
SCALE @ A1: 1:10  
SCALE @ A3: 1:20



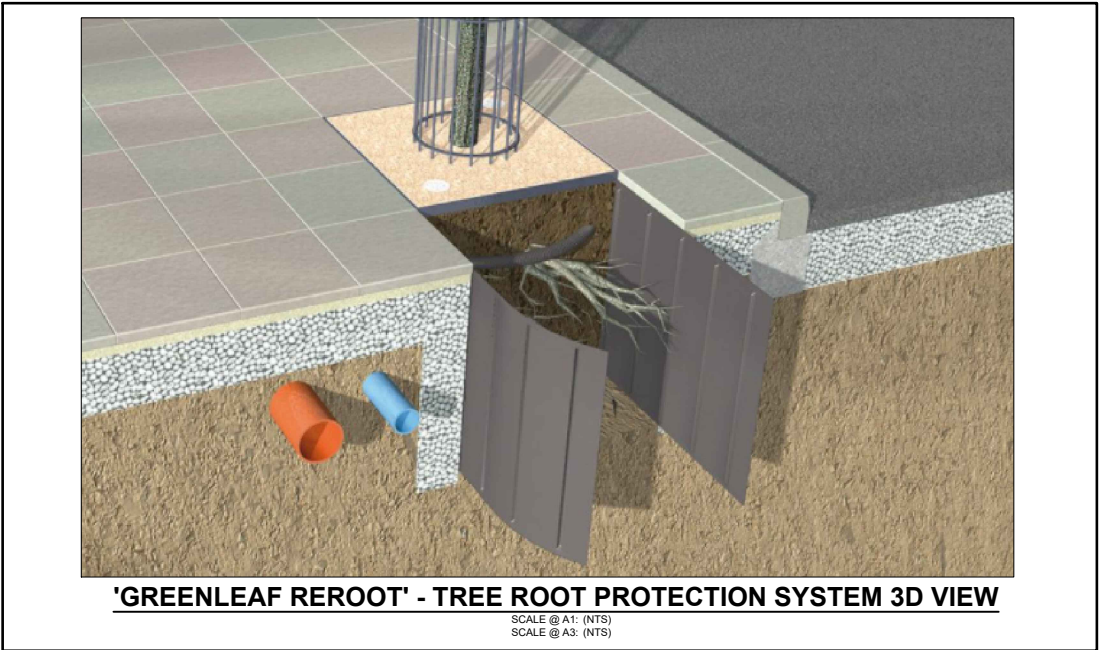
BLUE ROOF TYPICAL RWP INLET DETAIL

**E DETAIL**  
SCALE @ A1: 1:10  
SCALE @ A3: 1:20



EXTENSIVE GREEN ROOF OR PODIUM SEDUM BLANKET TYPICAL BUILD-UP DETAIL

**C DETAIL**  
SCALE @ A1: 1:10  
SCALE @ A3: 1:20



'GREENLEAF REROOT' - TREE ROOT PROTECTION SYSTEM 3D VIEW

SCALE @ A1: (NTS)  
SCALE @ A3: (NTS)

## NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECT'S DRAWINGS FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - 'ASK'.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.

### NOTES:

- DETAILED DESIGN & SPECIFICATION OF BLUE & GREEN ROOF OR PODIUM SYSTEMS BY THE SUPPLIER, SUBJECT TO APPROVAL.
- ALL MEMBRANES / SHEETS TO BE UV STABILISED & ROT PROOF.
- A 100Ø mm EMERGENCY PARAPET OVERFLOW PIPE SHOULD BE PROVIDED ON ALL BLUE ROOFS.

### MAINTENANCE REQUIREMENTS FOR GREEN ROOFS

REGULAR INSPECTIONS, ANNUALLY AND AFTER SEVERE STORMS. INSPECT ALL COMPONENTS INCLUDING SOIL SUBSTRATE, VEGETATION, DRAINS, IRRIGATION SYSTEMS (IF APPLICABLE), MEMBRANES AND ROOF STRUCTURE FOR PROPER OPERATION, INTEGRITY OF WATERPROOFING AND STRUCTURAL STABILITY. INSPECT SOIL SUBSTRATE FOR EVIDENCE OF EROSION CHANNELS AND IDENTIFY ANY SEDIMENT SOURCES. INSPECT DRAIN INLETS TO ENSURE UNRESTRICTED RUNOFF FROM THE DRAINAGE LAYER TO THE CONVEYANCE OR ROOF DRAIN SYSTEM. INSPECT UNDERSIDE OF ROOF FOR EVIDENCE OF LEAKAGE.

REGULAR MAINTENANCE REMOVE DEBRIS AND LITTER TO PREVENT CLOGGING OF INLET DRAINS AND INTERFERENCE WITH PLANT GROWTH. SIX MONTHLY AND ANNUALLY OR AS REQUIRED DURING ESTABLISHMENT (I.E. YEAR ONE), REPLACE DEAD PLANTS AS REQUIRED. MONTHLY (BUT USUALLY RESPONSIBILITY OF MANUFACTURER) POST ESTABLISHMENT, REPLACE DEAD PLANTS AS REQUIRED (WHERE > 5% OF COVERAGE). ANNUALLY (IN AUTUMN) REMOVE FALLEN LEAVES AND DEBRIS FROM DECIDUOUS PLANT FOLIAGE. SIX MONTHLY OR AS REQUIRED REMOVE NUISANCE AND INVASIVE VEGETATION, INCLUDING WEEDS SIX MONTHLY OR AS REQUIRED MOW GRASSES, PRUNE SHRUBS AND MANAGE OTHER PLANTING (IF APPROPRIATE) AS REQUIRED - CLIPPINGS SHOULD BE REMOVED AND NOT ALLOWED TO ACCUMULATE. SIX MONTHLY OR AS REQUIRED

REMEDIAL ACTIONS IF EROSION CHANNELS ARE EVIDENT, THESE SHOULD BE STABILISED WITH EXTRA SOIL SUBSTRATE SIMILAR TO THE ORIGINAL MATERIAL, AND SOURCES OF EROSION DAMAGE SHOULD BE IDENTIFIED AND CONTROLLED. FREQUENCY AS REQUIRED. IF DRAIN INLET HAS SETTLED, CRACKED OR MOVED, INVESTIGATE AND REPAIR AS APPROPRIATE. FREQUENCY AS REQUIRED.

PL4	25.02.22	ISSUED FOR PLANNING	MR
PL3	04.02.22	ISSUED FOR PLANNING	MR
PL2	13.10.21	ISSUED FOR PLANNING	MR
PL1	08.10.21	ISSUED FOR PLANNING	MR
P1	27.08.21	ISSUED FOR COMMENT	MR
ISSUE	DATE	DESCRIPTION	BY

Project Engineer: MH Project Director: CK

BM STAGE

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PROJECT TITLE  
CARLISLE SITE KIMMAGE,  
RESIDENTIAL DEVELOPMENT

BM PROJECT No.  
21.221

MODEL REFERENCE SUITABILITY REVISION

DRAWING TITLE  
SuDS DETAILS.  
TYPICAL GREEN & BLUE ROOF DETAILS.

DWG DRAWING REFERENCE STATUS REVISION  
CST-BMD-00-ZZ-DR-C-1205 PL 4