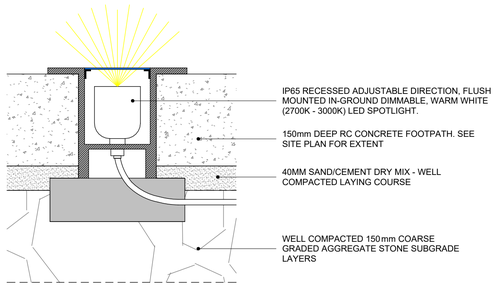
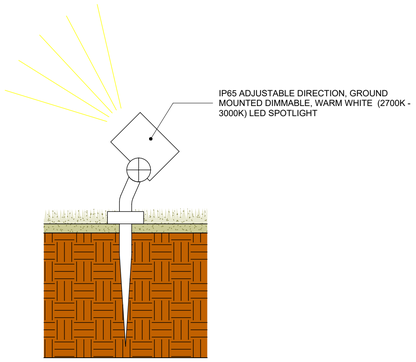


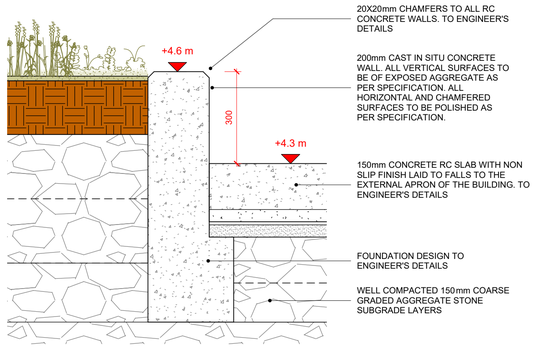
6 IN-GROUND UPLIGHTER

Scale 1 : 5 @A1



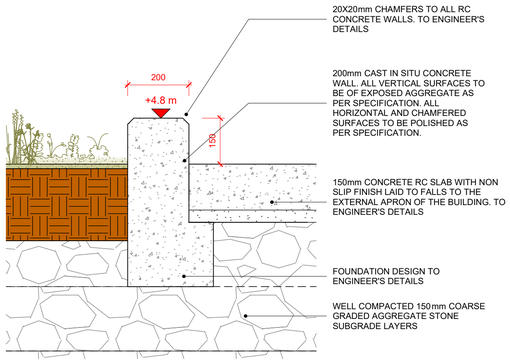
5 ANGLED UPLIGHTER

Scale 1 : 5 @A1



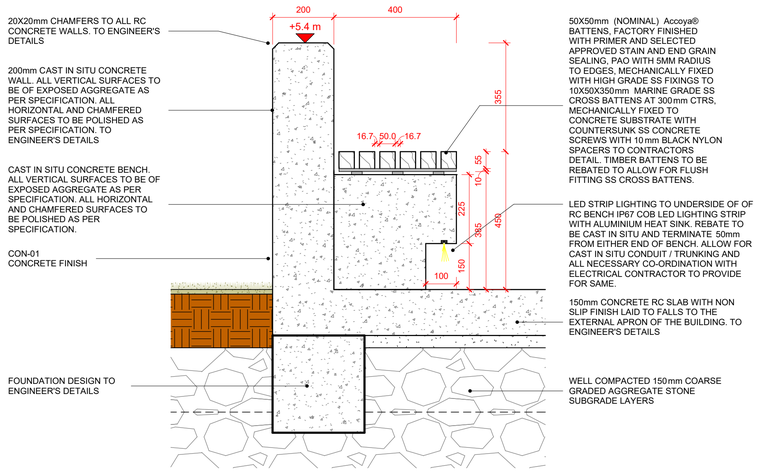
2 LOW LEVEL PLANTER

Scale 1 : 10 @A1



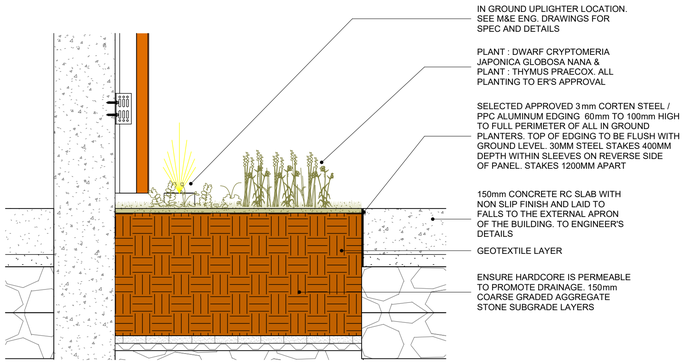
4 TYPICAL KERB DETAIL

Scale 1 : 10 @A1



1 LARGE BENCH SECTION

Scale 1 : 10 @A1



3 STEEL PLANTER EDGING

Scale 1 : 10 @A1

NOTE:
Dimensions not to be scaled from drawing.
For any discrepancies found consult with design office.
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This drawing to be read in conjunction with all the Specification Documents.

CONCRETE FINISHES:

CON-01
EXPOSED AGGREGATE CONCRETE WALL FINISH (VERTICAL) SPECIFICATION

CAST-IN-SITU CONCRETE WALLS WITH AN EXPOSED AGGREGATE FINISH ACHIEVED VIA FORM-APPLIED CHEMICAL RETARDER AND HIGH-PRESSURE WATER WASHING.
CONCRETE MIX: MINIMUM STRENGTH C30/37 (AS PER STRUCTURAL ENGINEERS SPECIFICATION).
USE A CONSISTENT SOURCE OF CEMENT AND AGGREGATES TO AVOID COLOUR BANDING.
AGGREGATE: 10–20mm ROUNDED RIVER STONE. AGGREGATE SHOULD BE WELL-GRADED TO ENSURE A "DENSE" LOOK ONCE EXPOSED.
SURFACE RETARDER: A HIGH-TACK, MEDIUM ETCH CHEMICAL RETARDER DESIGNED SPECIFICALLY FOR VERTICAL FORMWORK
FORMWORK: NEW, CLEAN, NON-ABSORPTIVE PHENOLIC-FACED PLYWOOD OR STEEL SHUTTERS. ALL JOINTS MUST BE SEALED WITH FOAM TAPE TO PREVENT GROUT LEAKAGE
RETARDER APPLICATION: APPLY THE RETARDER EVENLY TO THE INTERNAL FACE OF THE SHUTTERS USING A ROLLER OR SPRAY AT THE MANUFACTURER'S RECOMMENDED RATE. ALLOW TO DRY COMPLETELY (TYPICALLY 1-4 HOURS) BEFORE FIXING REINFORCEMENT OR POURING CONCRETE.
POURING: PLACE CONCRETE IN 300MM–500MM LAYERS. VIBRATE THOROUGHLY TO ENSURE AGGREGATE IS PUSHED AGAINST THE SHUTTER FACE, BUT AVOID TOUCHING THE SHUTTER WITH THE VIBRATOR POKER TO PREVENT "SCOURING" THE RETARDER.
STRIKING: REMOVE SHUTTERS BETWEEN 12 AND 24 HOURS AFTER THE POUR, DEPENDING ON AMBIENT TEMPERATURE. DO NOT LEAVE SHUTTERS ON TOO LONG, OR THE RETARDER WILL LOSE EFFECTIVENESS.
POWER WASHING: IMMEDIATELY UPON STRIKING THE SHUTTERS, WASH THE "SOFT" SURFACE PASTE AWAY USING A HIGH-PRESSURE WATER JET (MINIMUM 2,000–3,000 PSI).
CONSISTENCY: WORK FROM THE TOP DOWN. KEEP THE NOZZLE AT A CONSISTENT DISTANCE (APPROX. 300mm) AND ANGLE TO ENSURE AN EVEN DEPTH OF EXPOSURE ACROSS THE ENTIRE WALL.
CLEAN UP: WASH ALL SLURRY AWAY FROM THE BASE OF THE WALL BEFORE IT HARDENS TO PREVENT STAINING THE FOOTING OR SURROUNDING PAVEMENT. ENSURE FULLY DETAILED CWMP IN PLACE TO PREVENT ANY RUN OFF INTO WATER COURCES.
WASH DOWN WITH A 10% MURIATIC ACID WASH TO REMOVE ANY RESIDUAL CEMENT FILM FROM THE SURFACE. APPLY A CLEAR, BREATHABLE UV-STABLE SILANE/SILOXANE SEALER ONCE THE CONCRETE HAS CURED (MIN. 28 DAYS) TO PROTECT AGAINST FREEZE-THAW AND ORGANIC GROWTH
A 1M X 1M SAMPLE PANEL MUST BE PRODUCED USING THE EXACT MIX, RETARDER, AND WASHING PRESSURE INTENDED FOR THE FINAL WORK. THIS SAMPLE SHALL SERVE AS THE BENCHMARK STANDARD FOR COLOR, AGGREGATE DENSITY, AND DEPTH OF ETCH.

CON-02
POLISHED CONCRETE WALL FINISH (HORIZONTAL & CHAMFERED) SPECIFICATION

HORIZONTAL AND CHAMFERED ELEMENTS OF CAST-IN-SITU CONCRETE WALLS, BENCHES AND PLANTERS TO BE MECHANICALLY DIAMOND GROUND AND POLISHED TO ACHIEVE A SMOOTH, HIGH LUSTER MATT SHEEN AND DURABLE FINISH.

MIX DESIGN: MINIMUM C30/37 (OR 4,000 PSI) WITH A HIGH CEMENT CONTENT TO ENSURE A DENSE MATRIX.
CONSISTENCY: THE WALL TOP MUST BE CAST MONOLITHICALLY WITH THE WALL OR AND BE PERFECTLY LEVEL.
COMPACTION: HIGH-FREQUENCY VIBRATION IS CRITICAL AT THE TOP OF THE POUR TO ELIMINATE "BUG HOLES" AND AIR POCKETS THAT WOULD APPEAR AS PITS AFTER GRINDING.
INITIAL FINISH: TROWEL THE SURFACE TO A SMOOTH, FLAT FINISH. DO NOT "OVER-TROWEL" OR BURNISH.
MECHANICAL GRINDING & POLISHING SEQUENCE
THE CONTRACTOR SHALL USE PLANETARY OR HAND-HELD DIAMOND GRINDERS WITH INTEGRATED HEPA VACUUM DUST EXTRACTION.
STEP 1: INITIAL GRIND (COARSE)
GRIT: 30/40 GRIT METAL-BOND DIAMONDS.
GOAL: REMOVE THE SURFACE LAITANCE (CREAM) TO EXPOSE THE DESIRED LEVEL OF AGGREGATE I.E "SALT AND PEPPER"
STEP 2: TRANSITIONAL GRIND (MEDIUM)
GRIT: 80 GRIT METAL-BOND FOLLOWED BY 120 GRIT CERAMIC/HYBRID BOND.
GOAL: REMOVE THE VISIBLE SCRATCHES LEFT BY THE COARSE DIAMONDS.
STEP 3: GROUTING (PORE FILLING)
APPLY A POLYVINYL ACETATE (PVA) OR EPOXY-BASED GROUT OVER THE ENTIRE SURFACE. WORK THE GROUT INTO ALL PINHOLES AND MICRO-PITS USING A STEEL TROWEL. ALLOW TO CURE BEFORE PROCEEDING.
STEP 4: HONING (FINE)
GRIT: 200 GRIT RESIN-BOND DIAMONDS.
GOAL: REMOVE EXCESS GROUT AND BEGIN THE "HONING" PROCESS FOR A MATTE SHEEN.
CHEMICAL TREATMENT & SEALING
DENSIFICATION: APPLY A LITHIUM SILICATE DENSIFIER (E.G., PROSOCO LS OR HUSQVARNA HIPERHARD) AFTER THE 200-GRIT STAGE. THIS REACTS WITH THE FREE LIME TO HARDEN THE SURFACE AND INCREASE STAIN RESISTANCE.
STAIN PROTECTION (SEALER):
APPLY TWO COATS OF A SOLVENT-BASED PENETRATING MICRO-SEALER (E.G., SR2 OR PENTREAT 244).
FINISH: NATURAL/MATTE
REQUIREMENT: THE SEALER MUST BE UV-STABLE AND NON-YELLOWING FOR OUTDOOR/EXPOSED APPLICATIONS.
EDGES AND DETAILS
ARRIS/CHAMFER: ALL EXTERNAL EDGES MUST BE GROUND TO A 2MM–5MM CHAMFER OR "PENCIL ROUND" TO PREVENT CHIPPING
A 1M X 1M SAMPLE PANEL MUST BE PRODUCED USING THE EXACT MIX, RETARDER, AND WASHING PRESSURE INTENDED FOR THE FINAL WORK. THIS SAMPLE SHALL SERVE AS THE BENCHMARK STANDARD FOR COLOR, AGGREGATE DENSITY, AND DEPTH OF ETCH.

Rev	Description	Date
T.	TENDER ISSUE	13.07.2026

Revision

Project Stage: **TENDER**

Comhairle Contae Chorcaí
Roinn na nAiltirí
Seachadadh Caipitil
Halla an Chontae | Corcaigh | T12 R2NC | Éire
An tAltire Contae | Marcus O'Cuileáin

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Protect Title: **Claycastle Watersports Facility**
Youghal Co. Cork

Drawing Title:
LANDSCAPING DETAILS

Design Team:
Cork County Council
Architects Department
Capital Delivery

Date:	Jan 2023	**Dwg No:**
Scale:	1:10	**7011**
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