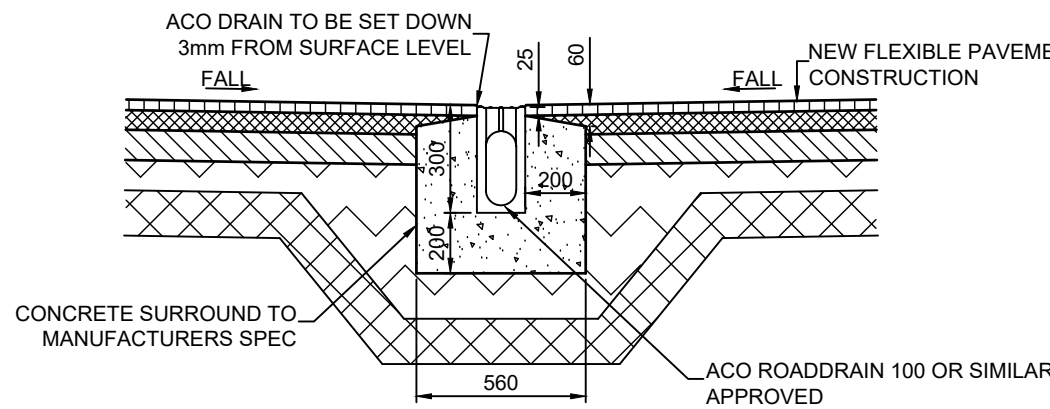
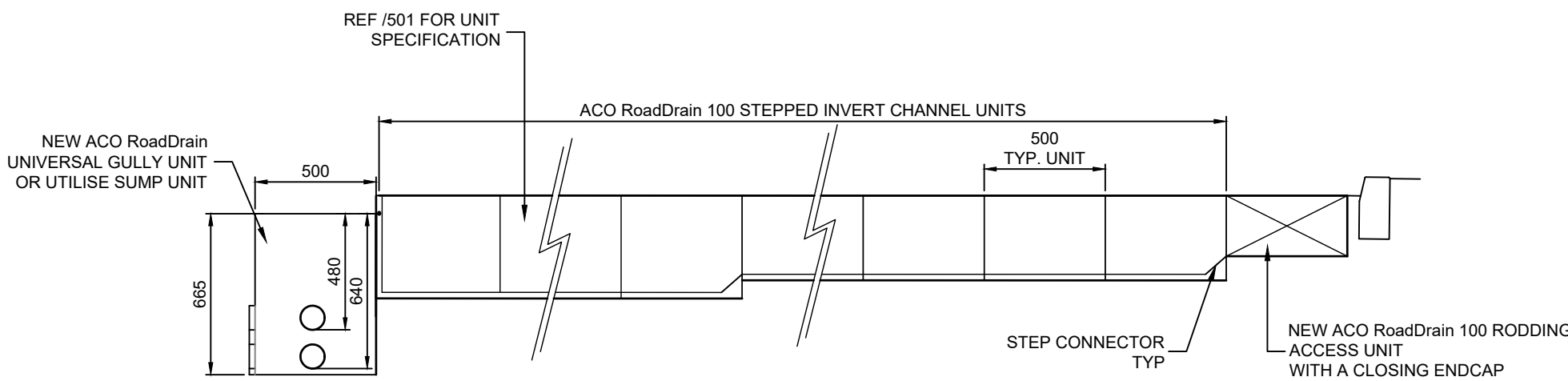


ACO DRAIN SECTION - CONCRETE
NTS



ACO DRAIN SECTION - BLACKTOP
NTS



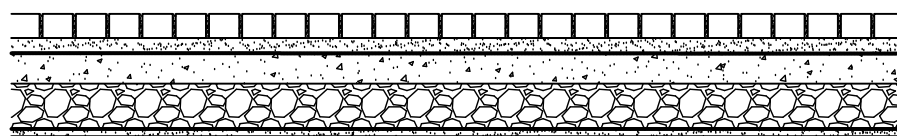
LINEAR DRAINAGE - ACO ROAD-RAIN 100
TYP. ELEVATION : STEPPED INVERT
1:25

GENERAL NOTES:

1. TEMPORARY INSTALLATION : A CHANNEL INSTALLATION IS NOT COMPLETE UNTIL THE FINAL SURFACING IS LAID. IN ANY TEMPORARY CONDITION, I.E. WITH THE CHANNEL WALLS PROJECTING ABOVE A CONCRETE SUB-BASE, SITE TRAFFIC SHOULD NOT CROSS CHANNELS. LOOSE BOARDS, STONE FILL OR COVER PLATES WILL NOT PROTECT THE CHANNEL WALLS OR GRATING. A TEMPORARY CHANNEL CROSSING SHOULD BE FORMED USING CONCRETE RAMPS. NOTE THAT THE CHANNEL LOAD CLASS SHOULD BE ADEQUATE TO CARRY THE SITE TRAFFIC
2. OVERLAY GRATING : THE LONGITUDINAL EDGES OF AN OVERLAY GRATING, WHICH IS DESIGNED TO SIT ON TOP OF A CHANNEL, ARE NOT PROTECTED BY CHANNEL EDGE RAILS. OVERLAY GRATINGS ARE DESIGNED PRINCIPALLY FOR BLOCK OR PAVING SLAB INSTALLATIONS. INSTALLED WITHIN A FLEXIBLE/CONCRETE PAVEMENT IT IS IMPORTANT TO ENSURE THAT THE GRATING EDGES ARE ISOLATED FROM THE PAVEMENT TO FACILITATE GRATING FIXING/REMOVAL
3. COVERING OR PROTECTING THE GRATING, BEFORE FINAL SURFACING IS LAID, REMOVES THE TIME, AND COST, OF CLEANING THE CHANNEL AND GRATING OF CEMENT/ASPHALT MATERIAL AND EMBEDDED STONES
4. FURTHER ADVICE : REFER TO ACO TECHNICAL AND INSTALLATION MANUALS FOR FURTHER INFORMATION AND ADVICE CONCERNING
A) HANDLING
B) HEALTH AND SAFETY
C) MAINTENANCE AND
D) DETAILED INSTALLATION GUIDANCE ETC.
ADVICE ON ANY ASPECT OF ACO CHANNEL SYSTEMS, MAY ALSO BE OBTAINED FROM ACO DRAIN TECHNICAL DEPARTMENT (TEL: 01462816666)

LOAD CATEGORY 5 (2018)

- LAID IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION & PRODUCT LITERATURE
- WEARING COURSE: PERMEABLE PAVING. SPEC BY ARCHITECT ASSUMES 80mm Dp BLOCK
- LAYING COURSE: 50mm THK. BEDDING 2-6mm SINGLE SIZED CLEAN CRUSHED STONE TO BS EN 13242:2002 AND CONFORM TO TABLE 1 OPPOSITE
- GEOTEXTILE: GEOTEXTILE FABRIC LINING SEPARATION LAYER, TERRAM 1000 OR SIMILAR
- SUB-BASE: HYDRAULICALLY BOUND COARSE GRADED AGGREGATE
100mm THK OF AGGREGATE OF PARTICLE SIZE DISTRIBUTION WITHIN THE THE ENVELOPE OF TABLE 2 OPPOSITE & SHALL COMPLY WITH THE FOLLOWING:
CEMENT BOUND MIXTURES
BS EN 14227-1:2004, 'Hydraulically bound mixtures -
Specifications - Part 1: Cement bound granular mixtures'
Minimum cement content by mass = 3%
Strength Class = C5/6 (As defined in Table 2 of BS EN 14227-1:2004.)
Minimum permeability 20,000mm/hour
(USE OF RECYCLED AGGREGATE NOT PERMITTED)
- LOWER SUB-BASE: COURSE GRADED AGGREGATE
(RESERVOIR LAYER) MIN 150mm THK OF 4-20mm CLEAN CRUSHED STONE TO BS EN 13242:2002
(USE OF RECYCLED AGGREGATE NOT PERMITTED)
- GEOTEXTILE: TERRAM 1000 OR SIMILAR APPROVED
- BLINDING LAYER: MIN 25mm THK SAND BLINDING LAYER OVER



TYPICAL TYPE A POROUS
PAVING CONSTRUCTION
1:25

TABLE 1	
Typ. Particle Size Distribution limits for laying course material	
BS SIEVE SIZE	% PASSING
14mm	100
10mm	98-100
6.3mm	80-99
2.0mm	0-20
1.0mm	0-5

TABLE 2	
Typ. Particle Size Distribution limits for Type 4/20 coarse graded aggregate	
BS SIEVE SIZE	% PASSING
40mm	100
31.5mm	98-100
20mm	90-99
10mm	25-70
4mm	0-15
2mm	0-5

GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S, ENGINEER'S AND OTHER SPECIALISTS' DRAWINGS.
2. PLEASE REFER TO DATRYS DRAWING 20294/501 FOR DRAINAGE LAYOUT
3. ALL CONCRETE SHALL BE GEN3 WITH SULPHATE RESISTING IN ACCORDANCE WITH BS8500 U.N.O.
4. ALL GRAVITY PVC-U PIPEWORK TO BE TO BS EN 13598-1:2010 OR BS EN 1401-1:2009 WHERE RELEVANT UNLESS NOTED OTHERWISE
5. DRAWING BASED ON USE OF ACCESS SYSTEMS BY HEPWORTH DRAINAGE (TEL: 08704435551). CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURERS INSTALLATION INSTRUCTIONS. USE OF SIMILAR CHAMBERS BY OTHER MANUFACTURERS OF SIMILAR QUALITY IS ACCEPTABLE

NOTES FOR PIPE BEDDING & SURROUND

1. BACKFILLING TO PIPE TRENCHES BENEATH ROADS, CAR PARKING AND STRUCTURES TO BE D.O.T. TYPE 1 GRANULAR MATERIAL UP TO FORMATION LEVEL FROM THE TOP OF THE SPECIFIED PIPE SURROUND (WELL COMPACTED IN 150mm MAX LAYERS).
2. OPTIMUM TRENCH WIDTH = PIPE+300mm. CONTRACTOR TO ENSURE TRENCH WALLS ARE SUITABLY PROPPED
3. BACKFILL MUST NOT BE PLACED ON CONCRETE BEDDING OR SURROUND UNTIL THE CONCRETE COMPRESSIVE STRENGTH HAS REACHED 15N/mm²
4. BRICKS OR BLOCKS MUST NOT BE PLACED IN THE BEDDING MORTAR FOR SETTING THE PIPES TO LEVEL
5. ALL ROCKER PIPE LENGTHS : 600mm
6. MAX DISTANCE FROM FACE OF CONC SURROUND TO FIRST FLEXIBLE JOINT TO BE 150mm

REV	DATE	DESCRIPTION	BY	CHK	APP

REVISIONS

CLIENT

PROJECT

Extra Care
Wrexham

TITLE

Drainage Details
Sheet 3

Carmarfon:
Unit 6 Block A, Ddf Pictoria
Carmarfon, LL55 1TH
Tel: 01298 671027
Mold:
Unit 4a, Broncoed House
Ffordd Brynne Gwair, Mold
CH7 1HP. Tel: 01352 706205
info@datrys.coop | www.datrys.net

DRAWN JP	CHECKED	PASSED
DATE 06.01.21	CLIENT'S REF.	
SCALE AT A1 AS SHOWN	AUTOCAD REF.	20294/502
DRAWING No.	REVISION	
20294/504		