



LINE PAINTING / PARKING BAYS
 LINING / JUNCTION MARKINGS
 All roadings to be of thermoplastic spray or stenciled with applied solid glass beads and designed in accordance with Chapter 5 of the Traffic Signs Manual (H.M.S.O.) 1985.

FOUL DRAINAGE
 Allow for connecting foul drainage into existing system as indicated on drawing. Approx location of existing foul drain shown.
 Allow for locating on site, expose and break in to with new connection.
 Private Road crossing - will need to be carried out in time agreed with client.
 Road crossing is Tarmac finish, allow for re-laying road, making good.

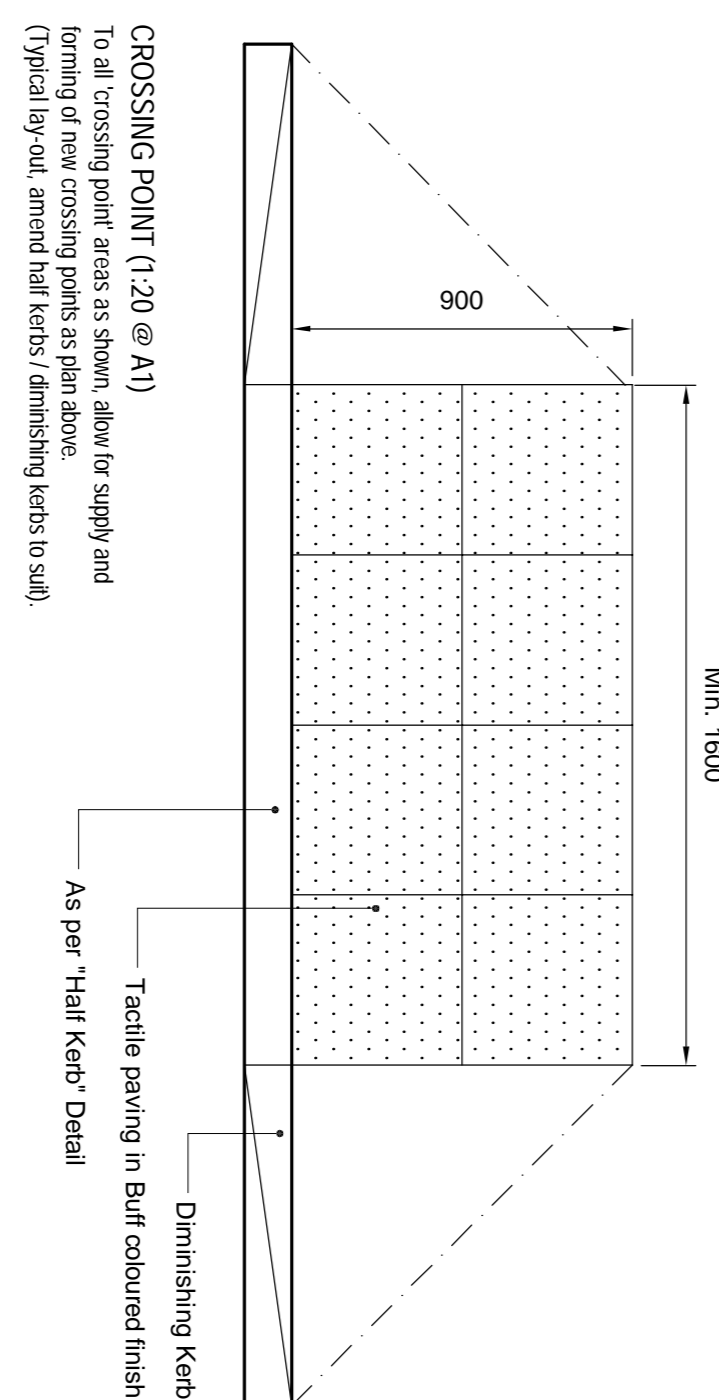
SOAKAWAYS
 Position at least 5m away from building, exact location, depth & size to be determined on site.
 Building inspected following permeability test to BRE Digest 151 (BS:8301:1985). Results of permeability test to be passed on to building control officer for approval prior to soakaway being formed.
 Line bottom and sides of pit with geotextile membrane - Terram 70g or similar, insert vertical inspection / clean out pipe 225mm perforated to depth of fill. Fill to pipe invert with granular material of clean washed bricks, crushed rock, stone or gravel 50 - 150mm, cover with geotextile membrane. Backfill with as dry material 723.

SURFACE FINISHES KEY
 Macadamian Finish
 Top soil
 Paving Slabs finish
 Slate Slabs finish
 Block Paving parking areas

GRAVEL STRIP
 Contractor to allow for supplying and laying gravel strip (300mm wide) to surround of building (refer to details). Gravel to be Pava Slate. Chipmops: 40mm Decorative Aggregate by Mestabeck.
 Timber kickboard to outer edge.
PAVING SLABS PATHWAY
 Contractor to allow for supplying and laying paving slabs to areas indicated. Contractor to ensure that ground is well compacted and level, and lay 100mm well compacted hardcore to width of area. Lay a min of sand / cement on hardcore (100mm thick) and lay paving slabs on top. Joints between slabs to be 2.5mm - filled with jointing sand.
 Concrete Slabs to be of 'Utility Paving' - by Mestabeck - Profile, Natural type finish. Top surface of concrete slabs to be 150mm below finished ground floor level of building.
 Lay slabs to a slight fall away from building, to drain into ground.
 On completion, apply Mestabeck Keybond liquid to paving slabs as per manufacturers instructions.

SULATE SLABS
 Contractor to allow for supplying and laying slabs to areas indicated. Contractor to ensure that ground is well compacted and level, and lay 100mm well compacted hardcore to width of area. Lay a min of sand / cement on hardcore (100mm thick) and lay paving slabs on top. Joints between slabs to be 2.5mm - filled with jointing sand.
 Concrete Slabs to be of 'Utility Paving' - by Mestabeck - Profile, Natural type finish. Top surface of concrete slabs to be 150mm below finished ground floor level of building.
 Lay slabs to a slight fall away from building, to drain into ground.
 On completion, apply Mestabeck Keybond liquid to paving slabs as per manufacturers instructions.

EXTERNAL WORKS
PATHS AROUND BUILDING
 Excavate to reduce levels to 150mm below ground floor level as shown & cart away. Lay paving slabs as specified elsewhere as indicated on drawing.
RAMP UP (leading up to entrance door)
 No steeper than 1 in 12 (level pattern at top and bottom of ramp min 1.2m long x 900mm wide, min 250mm principal surface, door to have a min. clear opening of 1750mm. Refer to structural detail for disabled access.
TOP SOIL
 Contractor to allow for supplying top soil to all areas noted to depth of 300mm minimum. Top soil to be to BS 3882:2015.
 Refer to Professional Statement for All other landscaping such as: planting of any shrubbery and trees.
ACO DRAIN
 Contractor to allow for supplying and installing ACO drain to level threshold areas and areas indicated. Connect ACO drainage in to drainage system.
 Install in strict accordance with manufacturers instructions.
 ACO drain to each door way to be suitable for level access, threshold ACO drain to surround of building to be concrete drainage channel 115mm wide by 175mm deep.



DRAINAGE BELOW GROUND
EXISTING DRAINS - Before starting work check levels and positions of existing drains, I.C.s and manholes against drawings and report any discrepancies.
STORM WATER - 100mm Ø pipes laid to 1:100 fall & connected to roadable gullies at rainwater downpipes. Install rodding eyes where drains change direction. Discharge to soakaway.
FOUL WATER - 100mm Ø pipes laid to BS EN 205-1 Kitemark certified, with flexible joints.
CLAY PIPELINES - Pipes & junctions: Vitred clay to BS EN 205-1 Kitemark certified, with flexible joints.
PLASTIC PIPELINES - PVC-U to BS4600 or BS5481 Kitemark certified.
BROCK MANHOLES / INSPECTION CHAMBERS - Base: 150mm concrete. Girth: 3mm. Brickwork: Class B engineering, 215mm thick laid in 1:3 cement / lime - sand mortar. English bond. (BS) Joint Bedding: 1-12.84, smooth concrete to full diameter branches - full chambers in position on all access - 100mm reinforced concrete slab min 100mm x 600mm access. Grade A in fibre reinforced areas. Grade C in front level is 200mm.
PLASTIC INSPECTION CHAMBERS - to BS 7158, 450mm. Concrete collar: 300 x 225mm deep. Girth: 3mm. Max depth of 450mm. Ø 10 to front level is 200mm.
BEDDING - All drains to be laid on 100mm granular material to BS 882. Provide 50mm thick concrete paving slabs at least 75mm above top of pipe where drains have less than 600mm cover. Where drains have less than 900mm cover in drive locations, encase in 150mm concrete with movement joints @ 6m centres. Backfill with excavated material compacted in 150mm layers.
RODENT CONTROL - Inspection chambers: ensure drainage channels have access covers for protection against rodents. Back light Gullies: All covers and gullies to have plastic covers or metal grillings which can be fixed in place. Ventilation stacks: Metal cages to be used on stacks to prevent vermin from leaving the system.

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Client	CWMNI CYMUNEDOL CLETWR
Project	NEW BUILD @ CAFFI CLETWR, TRER DDOL
Job No.	13 / 36
Contract / Scale	1:100 @ A1
Drawing No.	T 11
External Works	EXTERNAL WORKS
Drawing Date	Sept 16 2015
Project Date	13 / 36
Scale	1:100 @ A1
Project No.	13 / 36

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