ADC1005809

Drawing 1014.30 B

Notes and Revisions

1. Do not scale
2. © Harrison Mutch Ltd

Rev A - DJB - 23.07.09
Construction Notes amended to reflect Specification. Issued for Tender.
Rev B - DJB - 06.08.09
Surface water drainage updated. Entrance to Shared Access widened. Fire sit doors to east corner retained. Attenuation Tank Detail added. Sectional overhead doors changed to roller shutter. Issued for Tender.

CONSTRUCTION NOTES.

Drainage. To be constructed from 100/150mm diameter Hepworth vitrified clay pipes with flexible joints. Where drains pass under grassed areas to be surrounded in pea shingle with a minimum bed and cover of 100mm. Where drains pass under roads, hard standings etc to be encased in 100mm thick ST4 concrete with 18mm thick flexible material at each joint.

Drains to fall on gradients as indicated on drawings.

Gully to Lean-to Roof. To be constructed as follows:– Hepworth Vertical Inlet Hopper (SH3/1); Seal Plate (S1); P–Trap (SDG1/1); ST4 concrete bed; once rainwater downpipe is installed finish with mortar fillet.

Catchpit - SMH1. Grub out existing manhole and construction new 600x450mm shallow brick catchpit as follows:– 150mm thick ST4 concrete base slab set 300mm below invert of incoming drains; 215mm thick engineering brick with flush joints; step irons at 300mm centres; 600x450mm Class D400 heavy duty manhole cover and frame bedded and haunched in Class 1 mortar.

Attenuation Tank. Construct new attenuation tank as follows:– 72no Polyform Xtra Modular Cell Units to provide a total storage capacity of 6.7m³; encapsulate tank with impermeable geotextile membrane with all joints lapped and welded and sealed to drains and vent pipe; bed on and surround with 100mm thick course sand on 300mm Type 1 sub–base; form vent to top of tank with Hepworth Plain Square Hopper (SH1) complete with cast iron grating (G1C) and 100mm ϕ drain connection; all in strict accordance with manufacturers instructions and recommendations.

Hydro-Brake Chamber. Install new 1200mm ϕ preformed concrete Hydro–Brake Chamber bedded on 75mm thick lean mix concrete blinding and complete with heavy duty concrete cover slab to BS 5911; adjusting units as required; 600x600mm Class D400 heavy duty manhole cover and frame bedded and haunched in Class 1 mortar; precast manholes sections and cover slab to be bedded with mortar, proprietary bitumen or resin mastic sealant; backfill with 150mm of selected as dug material in 150mm compacted layers; chamber to limit flows to 2.5ltres/sec; all in strict accordance with manufacturers instructions and recommendation; full details to be submitted to and approved by Approved Inspector before work starts on site.

Gullies to Storage Yard. To be constructed as follows:– Hepworth 300x600x100mm trapped road gully (RGR1) bedded on and surrounded in 150mm thick ST4 concrete; engineering brickwork with flush joints to required depth; Grade C250 medium duty grating; 100mm ϕ drain connection.

Gully to Shared Access. Grub out existing gully and construct new as follows:– Hepworth 300x600x100mm trapped road gully (RGR1) bedded on and surrounded in 150mm thick ST4 concrete; engineering brickwork with flush joints to required depth; Grade D400 heavy duty grating; 100mm ϕ drain connection to existing drain; allow for encasing existing drain under Shared Access in 100mm thick ST4 concrete with 18mm thick flexible material at each pipe joint.

Manhole - FMH4. To be constructed as follows:– Hepworth 475mm ϕ Polypropylene Inspection Chamber (PPIC); Raising Pieces (SP1C4) as required; bed on and surround in 150mm thick ST4 concrete to support surface finish and cover; 600x600mm Class D400 heavy duty manhole cover and frame bedded and haunched in Class 1 mortar.

Manhole - FMH5. To be constructed as follows:– Hepworth 475mm ϕ Polypropylene Inspection Chamber (PPIC); Raising Pieces (SP1C4) as required; bed on and surround with well compacted bedding material; round ductile cover and frame (SPK8).

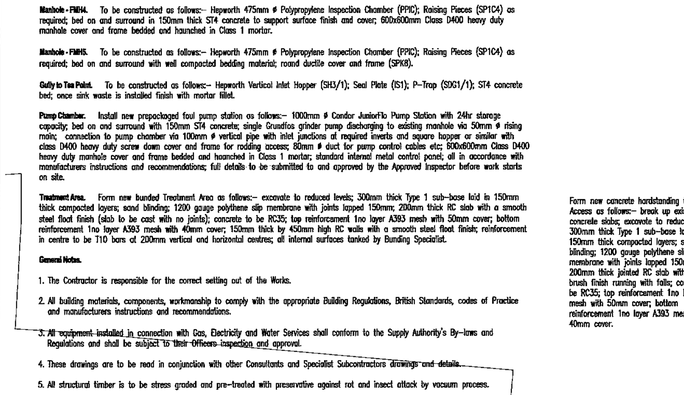
Gully to Tea Point. To be constructed as follows:– Hepworth Vertical Inlet Hopper (SH3/1); Seal Plate (S1); P–Trap (SDG1/1); ST4 concrete bed; once sink waste is installed finish with mortar fillet.

Pump Chamber. Install new prepackaged foul pump station as follows:– 1000mm ϕ Condor JuniorFlo Pump Station with 24hr storage capacity; bed on and surround with 150mm ST4 concrete; single Grundfos grinder pump discharging to existing manhole via 50mm ϕ rising main; connection to pump chamber via 100mm ϕ vertical pipe with inlet junctions at required inverts and square topper or similar with class D400 heavy duty screw down cover and frame for rodding access; 80mm ϕ duct for pump control cables etc; 600x600mm Class D400 heavy duty manhole cover and frame bedded and haunched in Class 1 mortar; standard internal metal control panel; all in accordance with manufacturers instructions and recommendations; full details to be submitted to and approved by the Approved Inspector before work starts on site.

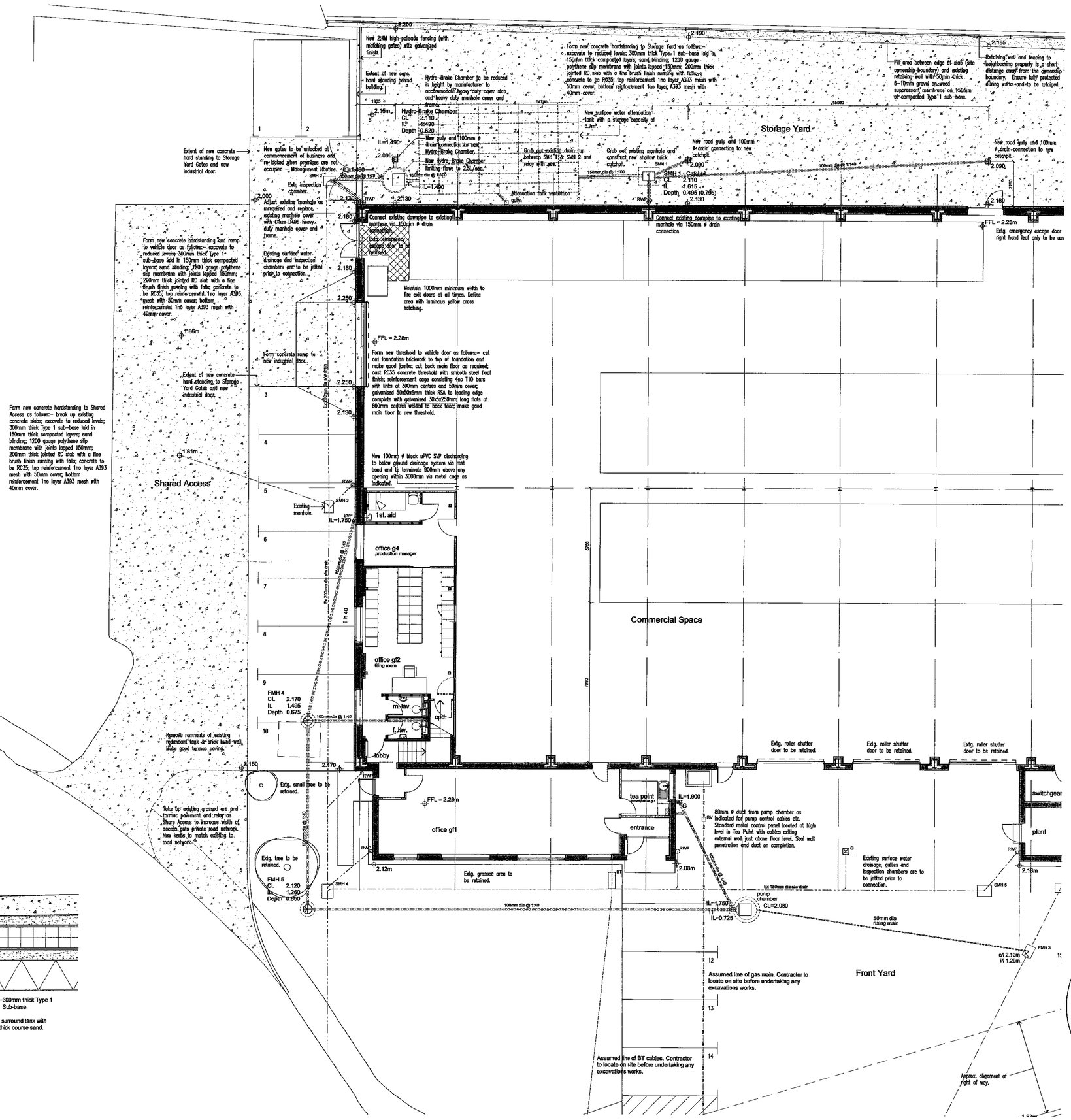
Treatment Area. Form new bunded Treatment Area as follows:– excavate to reduced levels; 300mm thick Type 1 sub–base laid in 150mm thick compacted layers; sand blinding; 1200 gauge polythene slip membrane with joints lapped 150mm; 200mm thick RC slab with a smooth steel float finish (slab to be cast with no joints); concrete to be RC35; top reinforcement 1no layer A393 mesh with 50mm cover; bottom reinforcement 1no layer A393 mesh with 40mm cover; 150mm thick by 450mm high RC walls with a smooth steel float finish; reinforcement in centre to be T10 bars at 200mm vertical and horizontal centres; all internal surfaces tanked by Bunding Specialist.

General Notes.

1. The Contractor is responsible for the correct setting out of the Works.
2. All building materials, components, workmanship to comply with the appropriate Building Regulations, British Standards, codes of Practice and manufacturers instructions and recommendations.
3. All equipment installed in connection with Gas, Electricity and Water Services shall conform to the Supply Authority's By–laws and Regulations and shall be subject to their Officers inspection and approval.
4. These drawings are to be read in conjunction with other Consultants and Specialist Subcontractors drawings and details.
5. All structural timber is to be stress graded and pre–treated with preservative against rot and insect attack by vacuum process.
6. All non–structural external softwood is to be pre–treated with preservative against rot and insect attack by vacuum process.
7. Existing rainwater goods, sewer pipes and some claddings may contain asbestos. Appropriate safety measures must be taken when working with all materials.
8. All electrical work to be undertaken by suitably qualified electrician who is to provide certificates of installation/test on completion.
9. The existing heating system within all parts of the building is retained unaltered.



Attenuation Tank Detail 1:20



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Change of Use & Extension
For Triad Timber Components Ltd.

Proposed External Works.
General Arrangement - Sheet 1 of 2.

Scale	:	1:100 @ A1
Date	:	07.09
Drawn	:	DJB
Chekd.	:	RDH
Status	:	For Tender

Drawing 1013.30 B