

ENGINEERING KEY:

MANHOLE REFERENCE
S1
COVER LEVEL
CL 102.000
PIPE REFERENCE
100/000 1.35 1.004
INVERT LEVEL
100/000 1.35 1.004
PIPE GRADE
PIPE DIAMETER

SECTION 104 STORM SEWER

MANHOLE REFERENCE
F1
COVER LEVEL
CL 102.000
PIPE REFERENCE
100/000 1.35 1.004
INVERT LEVEL
100/000 1.35 1.004
PIPE GRADE
PIPE DIAMETER

SECTION 104 FOUL SEWER

SEWER/DRAINAGE EASEMENT
DIMENSIONED

HIGHWAY GULLY

PRIVATE FOUL LATERAL

PRIVATE STORM LATERAL

RAMP IN CARRIAGEWAY

CARRIAGEWAY /FOOTWAY IN
BLOCK PAVED CONSTRUCTION

PLOT FINISHED FLOOR LEVEL
FL 105.00

CARRIAGEWAY LOW/HIGH
POINT

The drawing is a detailed engineering layout for a residential development. It shows a plan view of the site with Station Road running diagonally from the top left to the bottom right, and Swire Letsway running parallel to it. The layout includes numerous manholes (S1-S11, F1-F13) and flow lines (F100-F113) with their respective levels and diameters. Easements for storm and foul sewers are clearly marked. The drawing also shows existing buildings, roads, and landscaping. A grid system is overlaid on the drawing with coordinates ranging from 325650N to 325800N and 432000E to 432050E. A north arrow is located in the top left corner. A legend in the top left corner defines the symbols used for manholes, easements, gullies, and other features. A scale bar is provided in the bottom left corner.

ENGINEERING GA:
General Notes.

- Do not scale this drawing. If in doubt, ask.
- This drawing is to be read in conjunction with all other relevant Engineers, Architects and specialist design drawings and details.
- All dimensions are in metres unless noted otherwise. All levels are in metres unless noted otherwise.
- Any discrepancies noted on site are to be reported to the Engineer immediately.
- All drainage works shall be carried out in accordance with Sewers for Adoption 6th edition.
- Prior to commencement of any drainage works, the contractor shall check the invert level of the existing sewers. If there are any discrepancies with the invert levels shown the Engineer shall be contacted immediately.
- It is the responsibility of the Contractor to locate any service apparatus in the vicinity of the works prior to the commencement of any intrusive works.
- It is the responsibility of the Contractor to execute the works at all times in strict accordance with the requirements of the health and safety at work act 1974, and the C.D.M. regulations 2015. The Contractor will be deemed to have allowed for full compliance, including full liaison with the principal designer/principal contractor, within the rates.
- The Contractor is responsible for ensuring that all works are to the satisfaction of the Engineer, and shall be deemed to have included within his rates for any necessary testing.
- The Contractor will be responsible for providing all necessary de-watering and trench support to execute the works in a satisfactory manner, and shall be deemed to have allowed for the same within his rates.
- All buried concrete products and mortar shall be made using sulphate resisting cement.
- All materials for use in the contract must be BS kitemarked. All lifting eyes in P.C.C. products shall be pointed smooth after fixing. STW requires that precast concrete rings must not be cut on site.
- Pipes shall be laid with soffits level unless stated otherwise.
- STW requires that at all pipe crossings, a plastic membrane to be used for protection to eliminate any chances of cross contamination.
- Precast concrete rings shall not be cut.
- Temporary screen/grills to be provided in storm and foul manholes in order to prevent any construction debris/rubble from entering the receiving watercourse or public foul sewer system during the construction works.
- Any existing trees or proposed tree planting within 12m of a public sewer shall accord with the requirements of Sewers for Adoption 6th edition, Cl. 2.4.9 & Figure 2.3.
- All highway works shall be carried out in accordance with the relevant Highway Design Guide and technically approved drawings.
- The Contractor shall check all tie-ins for line and level with existing before commencing any works. The Engineer shall be notified immediately in writing, should any errors be found.
- All tactile paving tile arrangements shall be laid with the modules in line with the crossing and must be agreed with the highway authority prior to laying. New service boxes should to be located away from pedestrian dropped crossing points to avoid the need for cutting tactile paving slabs.

C	REVISED TO SUIT NEW PLANNING LAYOUT.	27.08.20	
B	REVISED TO SUIT STW COMMENTS.	05.08.20	
A	REDESIGN TO NEW PLANNING LAYOUT.	12.05.20	
REV	DESCRIPTION	DATE	INITIAL

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PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT AT
STATION ROAD
MELBOURNE

TITLE
ENGINEERING LAYOUT

DRAWN SCALE 1/500	DATE 21-04-2020 SIZE A1	PURPOSE OF ISSUE ☐ PRELIMINARY ☒ APPROVAL ☐ CONSTRUCTION
DWG NO. E175-10-01	REV. C	

SEVERN TRENT WATER:
General Notes.

- Catchpits shall not be adopted.
- No backdrops to be used, steeper gradients are preferred to the use of backdrops.
- For Type E manholes the opening cover and frame should be located centrally over the pipe – refer to Sewers for Adoption 6th Edition Figure 2.8.
- The outside of the sewer should be in vehicle carriageway (not footpath) and be at least 1m from the kerb line. The outside manholes should be at least 0.5m from kerb line.
- All proposed manhole covers and frames at a minimum of 675mm x 675mm to maintain clear opening and to comply with Severn Trent Water Ltd current Health and Safety standards.
- The materials to be used should be suitable for the ground conditions.
- In situations where traffic loading is anticipated to be heavier than would occur on a typical residential estate distributor road (i.e. braking or turning near a junction) a higher specification cover (E600) should be used.