Proposed SW Pumping Station to latest Sewerage Sector Guidance. pumping rate 10 l/s Base Level 57.00 (tbc by M & E supplier)

Off-Line Cellular Storage 8m x 20m x 0.8m deep (128m³) IL 60.05m

Off-Line Cellular Storage 3.0m x 38m x 0.8m deep (91.2m³) IL 61.65m

Wet Well

Control Manhole with Vortex Flow Control Unit on outlet to limit flows to: 10l/s@2.5m head minimise upstream storage(F P McCann Unit Ref: FPM-SB1-02500-01000-01000)

Ex MH 0101 CL 61.927

Ex MH 0102 CL 61.864 IL 60.020

Ex MH CL 61.991 IL 60.226

Ex MH CL 62.630 IL 60.400

Ex MH CL 63.694 IL 60.454

Ex MH CL 63.604 IL 59.604

Ex MH CL 63.666 IL 60.466

Ex MH 1001 CL 61.508 IL 57.02*

Trivert level from sewer records. tbc on site

Ex MH 1901 CL 60.923 IL 57.673

Ex MH 1900 CL 60.862 IL

Ex MH 1800 CL 61.036 IL

Ex MH 1802 CL 61.192 IL 60.172

Ex MH 1803 CL 61.35* IL 59.36

Ex MH 1801 CL 61.317 IL58.617

Ex manhole not on topo survey. Cl & IL tbc on site

Ex MH 1806 CL 61.036 IL

Ex 300mmØ combined sewer

Ex 225mmØ

Ex 450mmØ

Road1 Road2 Road2A* Road3 Road4 Road5 Road6 Road8

3m level buffer

110yds (100.584m) x 70yds (64.008m)

S/C

Shelter

Drain

61.0m 61.3m 62.5m 62.8m 63.00

225mmØ stub pipe for sports pitch drainage designed by others.Discharge to be restricted to maximum rate of 8.4l/s

Control Manhole with 2No.Vortex Flow Control Unit to limit flows to: 31l/s@0.87m head minimise upstream storage(Hydro International Unit Ref:SHE-0242-3100-0870-3100) at IL 60.530 32l/s@2.215m head Linear Discharge Profile(Hydro International Unit Ref: SCU-0148-3200-2215-3200) at IL61.45

Maximum Discharge Rates:

1 year	- 31l/s
30 year+40%	- 54.1l/s
100year+45%	-72.4l/s

NOTES

1. Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
2. All sewers shall be constructed in accordance with Sewerage Sector Guidance and the Design & Construction Guidance.
3. The minimum gravity pipe diameter under adoptable highways shall be 150mm
4. It is the responsibility of the Contractor to verify all information given with regards to existing services and drainage connections etc. prior to commencing the works. The rates shall include for hand dig around services where necessary. The Contractor shall adhere to the CDM Regulations at all times
5. The outsides of all sewers shall be a minimum of 1.0m from kerb lines and the outside of manholes shall be a minimum of 0.5m from kerb lines
6. Existing flows in watercourses, sewers and land drains shall be maintained at all times
7. Only trained personnel shall be permitted to enter confined spaces
8. All materials to bear the relevant B.S. Kitemark and comply fully with the specifications. All concrete & concrete products must use Sulphate resistant cement (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur to withstand a class 3 condition).
9. All opening notices etc. as required under highways acts etc. are to be obtained prior to commencement of works. All works are to be inspected by L.A., NHBC or the Network Operator as applicable.
10. Where "Ultra Rib" UPVC pipes (or similar approved) are used in adoptable drainage they shall still be handled and laid in accordance with the specification and guidance issued by the High Performance Pipe Association.
11. A Class S Bed and surround must be used for such pipes. Trench backfill in highways to within 1m of highway shall, as directed by the Highway Authority be a suitable granular material all in accordance with Sewers for Adoption cl. 4.3.4.
12. Slab levels shall not be varied without reference to the Engineer for guidance

KEY

S.W. Foul

- Proposed sewer
- Disconnection Manhole
- 13.50 Proposed Plot Level
- Existing Combined sewer
- Existing SW sewer
- Proposed highway gully
- 48.270 Proposed level
- × 29.35 Existing Level
- Sewer Easement
- SW Attenuation Tank (refer to Dwg No 30571/12/1-4 for details)
- Tactile Paving & Dropped Kerb (exact location to be agreed on site with the LA engineer)
- Street Nameplate (exact location to be agreed on site with the LA engineer)

Rev	Date	Initials	Details
B	15/05/24	SAP	Drainage Notes added & cellular storage tanks amended
A	05/04/24	DA	Updated to client's initial comments.

Drawing Revisions

North Point

Quality Ass.
UKAS 005 Quality Assurance ISO 9001:2008 SGS Certificate GB02/54539

Project: Mount Road Gorton

Client: Kellen Homes

Title: Highways And Drainage Layout Sheet 1

PRELIMINARY

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Original Size: A1

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Drawn: KF | Checked By: SAP | Date: March 24 | Scale: 1:500

Drawing No.: 30571/1/1 | Revision: B