Notes

1. This drawing has been prepared in accordance with the scope of RPS's appointment with its client and is subject to the terms and conditions of that appointment. RPS accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided.
2. If received electronically it is the recipients responsibility to print to correct scale. Only written dimensions should be used.
3. This drawing should be read in conjunction with all other relevant drawings and specifications.
4. The scheme is subject to statutory approvals, surveys and design development.
5. © Crown copyright and database rights 2022 Ordnance Survey 0100031673

Key:

Planning Boundary

Foul Drainage Requirements

1. Internal manholes to be double sealed with internal plates.
2. Pump Stations:
   - 2.1. Duty and standby pump arrangements in pump stations.
   - 2.2. Variable pump rates where required (i.e. duty and standby).
   - 2.3. Pumps to be linked to BMS/Gatehouse for remote shut down in emergencies.
   - 2.4. Back up power supply to be provided for pumpstations/ provision for standby generators to be brought to site in event of power outage.
3. Domestic Foul Water Design Baseline:
   - 3.1. Project maximum discharge rates: Allowable DWF = 0.14l/s/ha Allowable peak = 0.502l/s/ha.
     Developed site area 16ha. Allowable DWF = 2.24l/s max Allowable peak = 14.72/s
   - 3.2. No. of Staff per day
     Office staff (1 shift/day) = 102
     Factory staff (2 shifts/day) = 231 /shift
   - 3.3. Daily Flow per person = 100 l/person/day
   - 3.4. Peak Flow based on shift change = 564 staff changeover in 30 minutes.
4. Fire Fighting Water
   - 4.1. The volume of firefighting water required to be attenuated is subject to agreement with local fire authority
     No allowance is made for a dedicated spent fire water tank.

Drainage Key:

- 5.000 — FW Sewer (Pipe reference)
- F1 — FW Manhole
- Existing drainage to be removed
- Pump station
- Pressure main
- Existing FW sewer
- OB — Outlet Box
- G — Gully / Pop up
- PS — Penstock valve

Existing Foul Sewer Manhole (connection point 5) FWP9AL150 CL=36.60m, IL32.135m

Existing Foul Sewer Manhole (connection point 4) FWP8BL150 CL=36.45m, IL32.520m

FWP8BIL150 PS Existing Foul Sewer Manhole (connection point 3) To be relocated to avoid retaining wall, Penstock to be installed at outfall FWP8BIL150 CL=36.86m, IL32.825m (outfall)

Existing Foul Sewer Manhole SFW11IL150 CL=36.73m, IL32.703m

Existing Foul Sewer Manhole (connection point 2) FWP9IL150 CL=37.50m (Existing), IL33.600m Top of chamber to be reconstructed to provide a new cover level =38.850m

Existing Foul Sewer Manhole SFW12IL150 CL=36.97m, IL32.996m

Existing Foul Sewer Manhole SFW12AIL150 CL=37.28m, IL33.585m

Existing Foul Sewer Manhole (connection point 1) FWP9A CL=37.75m, IL33.700m

Spur for future development

Foul drainage route exit point

Pollution prevention: Bulk Store (beneath canopy) to be bunded with no direct connection to drainage network.

Foul drainage route continues through the building footprint

Foul drainage route exit point

Foul drainage route continues through the building footprint

Foul drainage route continues through the building footprint

FWPS01 Foul Pump Station 01 with emergency storage capacity. only for part of the foul drainage network

10m SCALE 1:1000

Rev	Description	By	Ckd	Date
P01	Planning Submission	LMA	MM	12/05/23

RPS MAKING COMPLEX EASY
A TETRA TECH COMPANY
Sherwood House, Sherwood Avenue, Newark, Nottinghamshire, NG24 1QQ
T: 01636 605 700 E: rpsnewark@rpsgroup.com

Client

I:\01\Reuse\ uses\Logos\Envision AESC.jpg I:\01\Rebated data\Logos\Wales_2020.jpg

Project: Envision AESC Giga Factory

Title: Proposed Foul Drainage Layout

RPS Project Number	Scale @ A0	Date Created
NK020439P	1:1000	10/05/23
Task Team Manager	**Information Author**	**Task Information Manager**
TH	LMA	MM

Status: S4 (Suitable for Approval)

Document Number: 161

Revision: P01

Project Code - Originator - Function - Space - Type - Role - Number

rpsgroup.com