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Date: 22nd March 2022

c/o Joe Fallon Architectural
Ryland House
Ryland Street
Bunclody
Co. Wexford

RE: Planning permission for development @ Tig Mhuire, Old Bridge Road, Templeogue, D16, D16W6F4 -SD21B/0589 Brian and Lauren Monaghan-Clarification of Additional Information dated 14/02/2022.

To Whom it may concern,

Further to the request for clarification of additional information, issued by South Dublin County Council on the 14th of February 2022, Stingray Environmental Engineering prepared the site-specific design reports to detail:

- Foul water disposal system via FPS

for a proposed development.

Additional information request-Section 1. Storm Water

1. In order to assess the feasibility of a connection to public wastewater infrastructure further information is requested as follows:

The applicant is requested to engage with Irish Water through the submission of a Pre-Connection Enquiry (PCE) in order to determine the feasibility of connection to the public wastewater infrastructure. The Confirmation of Feasibility (COF) must be submitted to the planning department as the response to this further information request. Pre-connection enquiries can be made at https://www.water.ie/connections/get-connected/

Response:

Upon further investigation carried out by SDCC drainage engineer, we been informed that the existing 50mm rising mains would be perfectly suitable to be utilised and maintained for proposed foul water connection. No new rising mains would be required at this instance making section 1 above, irrelevant to proposed development. Client will not apply for new connection with IW.

Additional information request-Section 2. Foul Pump Station

2. The proposed foul pumping layout design is not in compliance with Irish Water Code of Practices for Wastewater. The applicant is requested to submit a revised foul drainage layout drawing which demonstrates the following:

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Foul drainage pumping shall be discharged to a standoff manhole in compliance with Irish Water standard details prior to discharging to the public foul drainage network. Pumped foul drainage discharge directly to the public foul drainage network is not permitted.
The proposed pumping station must be a minimum of 5m from the existing house and outside of any existing flood zone according to OPW (Office Public Works) CFRAM flood mapping.
The proposed pumping system shall include a duty standby pumping arrangement with the inclusion of 2 pumps

3. It is unclear where the foul water drainage is proposed to discharge to the public foul water drainage network. Irish Water records do not show a public foul sewer manhole in the location shown on Old Bridge Road. The applicant is requested to clarify the proposed location to discharge foul drainage from the site to the public foul drainage network.
Prior to submission of clarification of additional information, the applicant is advised to contact South Dublin County Council's Water and Drainage department to discuss items of clarification

Response:

Foul Discharge Point

All foul water generated on-site will be lifted by the new foul pumping station, via existing 50mm HDPE rising mains into the existing Foul manhole located along Old Bridge Road. The photograph below indicates the manhole where the end point of existing 50mm HDPE rising mains has been located and inspected by SDCC drainage engineer Mr. Ronan Toft. No new connection to IW network is required.

Fig 1. Existing Manhole EX-F6 indicating end point of existing 50mm HDPE rising mains- opened and inspected by SDCC engineer Mr. Ronan Toft in March 2022

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FPS Location

Proposed location of FPS is to meet required setbacks as tabulated below.

Features	Required	Proposed Foul Pumping Station
Existing Flood Zone OPW	Outside zone	FPS located outside 1:1000year flood zone
Building/Structure	5m	5m FPS to existing/proposed dwelling
SUDS system	5m	>5m FPS to Cultec Storm system
Site Boundary	3m	>3m FPS to site boundary
Watercourse	10m	7.5m FPS to river Dodder- top of the bank*

Fig 2. Separation distances. * Due to site space restrictions, the minimum recommended separation distance cannot be met. We are looking for an exception due to the following reasons:

- The proposed underground FPS uses watertight reinforced plastic or precast concrete vessel with 24hrs emergency storage capacity thus reducing a risk of overflowing and minimizing the potential pollution to surface water during the hypothetical FPS breakdown
- The proposed underground FPS would replace an existing FPS that is in the same area that also does not meet the setbacks that are now required
- While the distance from the proposed underground FPS to the site boundary (River Dodder top of the bank) is only 7.5 metres, it is another approx. 5-6 metres from the site boundary to the normal flowing of the River Dodder. See images of the site boundary and the river Dodder with the distance between them.

Fig 3. River Dodder-Looking Up towards the site

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Fig 4. River Dodder- site view

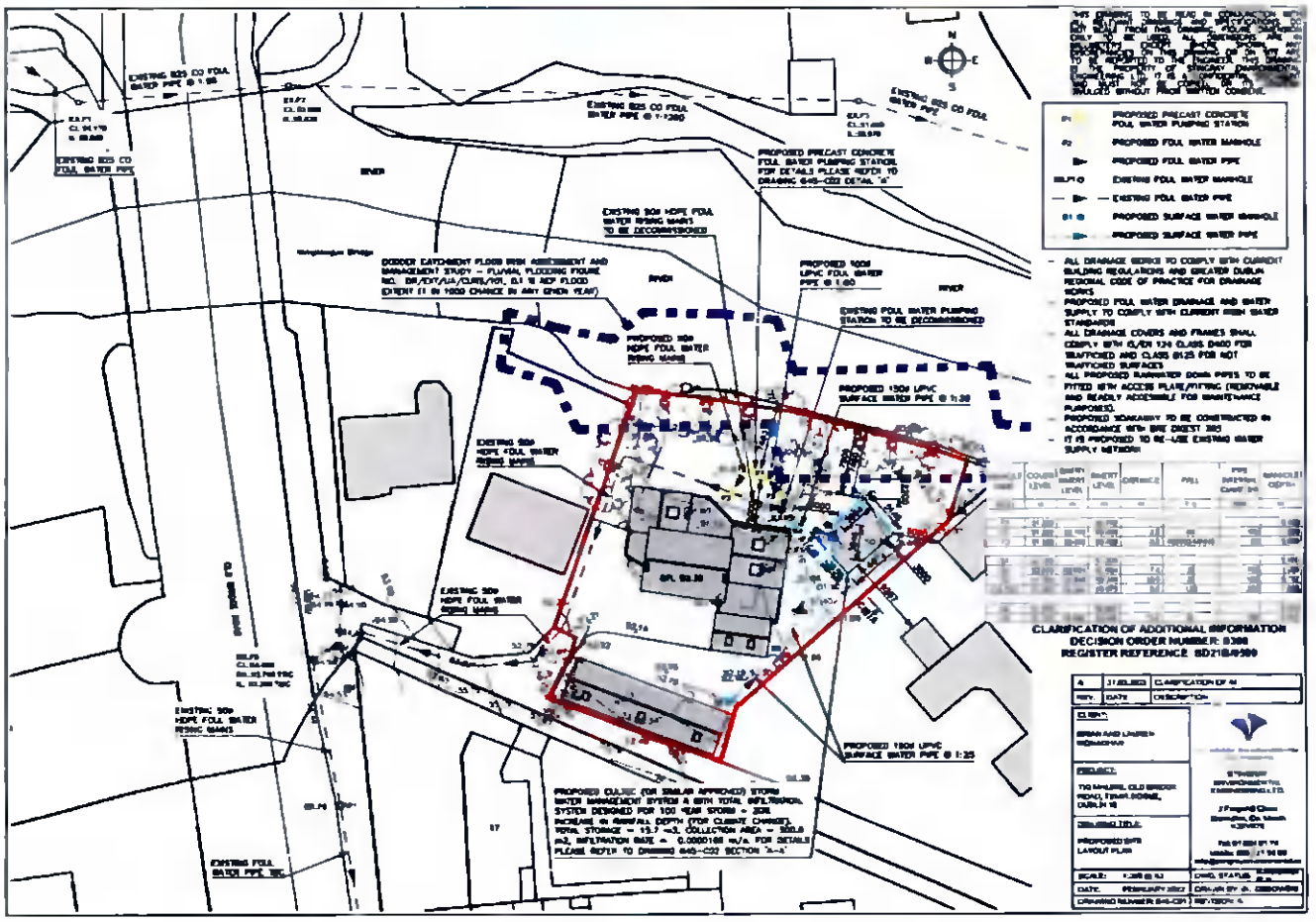

Fig 5. Proposed Location of new FPS

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FPS revised layout

Proposed FPS to contain twin pump system with Duty Standby arrangement.

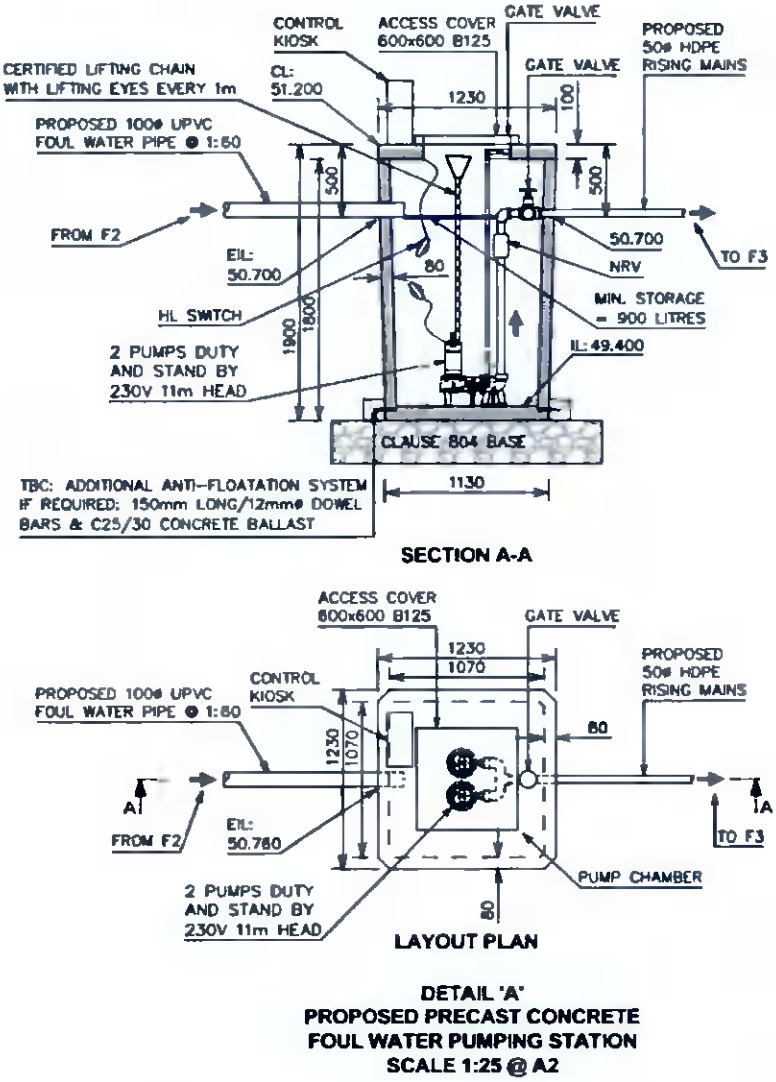

Fig 6. Proposed FPS

In the meantime, should you require any further information or have any queries in relation to the enclosed please contact me.

Yours Sincerely,

Waldemar Debowski

Waldemar Debowski
Director/Environmental Engineer

Documents attached:

- Foul Water Network Design Report