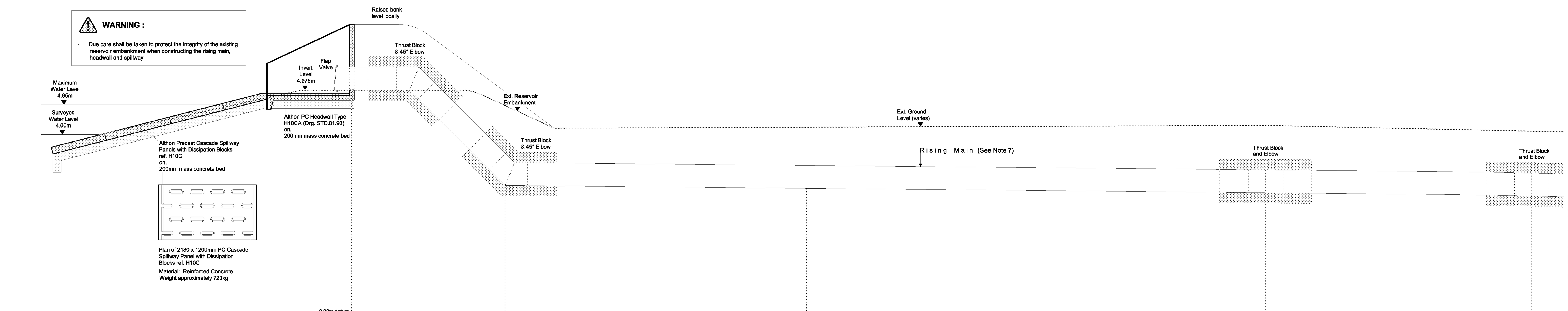


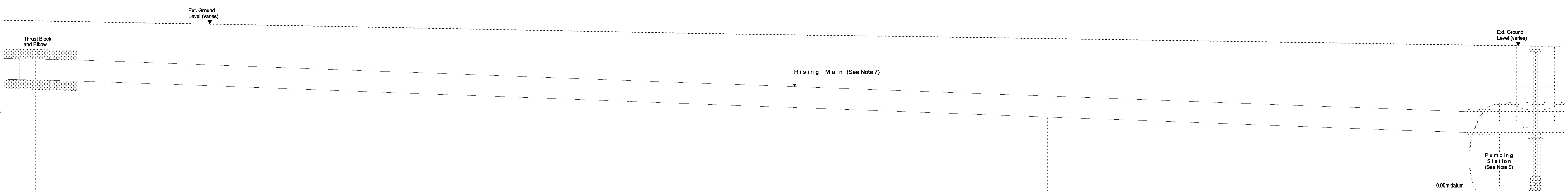
Invert Level	4.975	2.890	2.825	2.730	2.660
Pipe Type	500mm external diameter (black) HDPE with SDR no greater than 17				
Pipe Bedding	Type 'Z' Concrete Bed and Surround			Type 'S'	
Chainage (m)	59.9	56.6	50.0	40.0	34.2

CONTINUED BELOW

RISING MAIN LONGITUDINAL SECTION

1:50 Scale

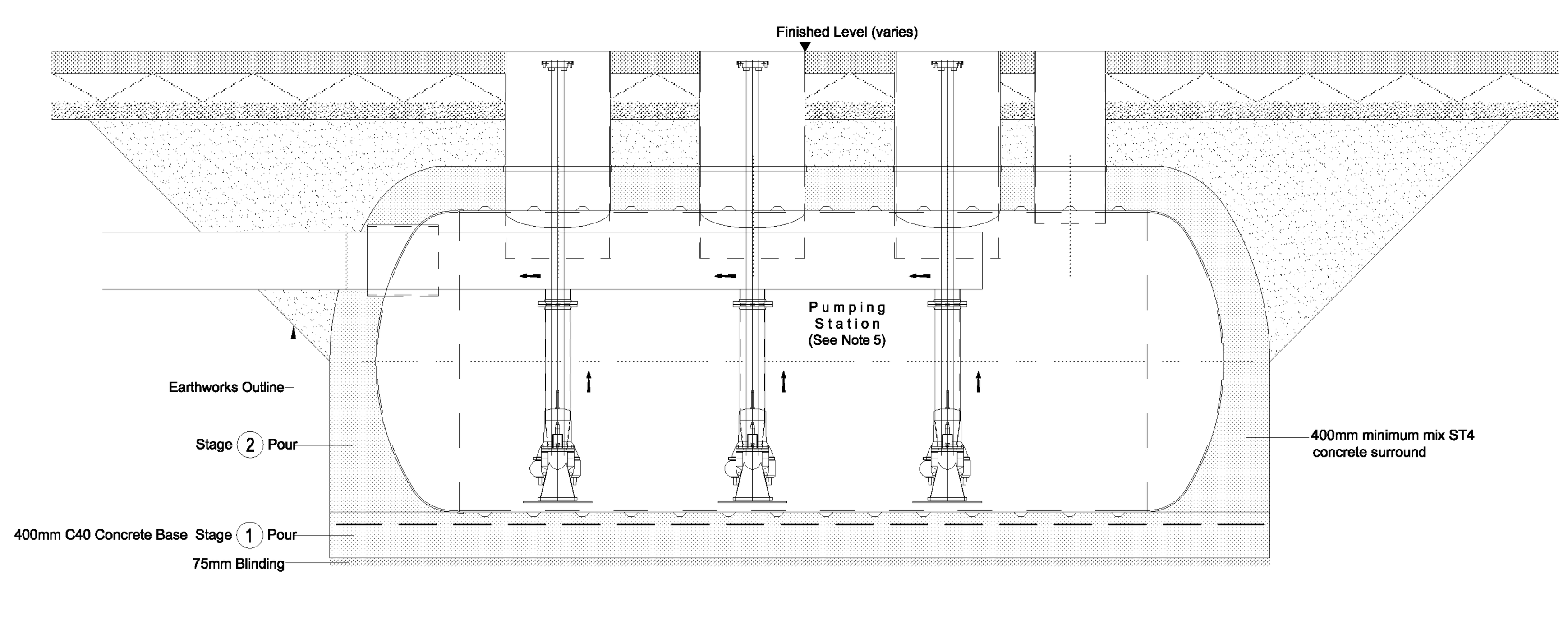
CONTINUED ABOVE



Invert Level	2.660	2.520	2.145	1.775	1.400
Pipe Type	500mm external diameter (black) HDPE with SDR no greater than 17				
Pipe Bedding	Type 'S'				
Chainage (m)	34.2	30.0	20.0	10.0	00

LONGITUDINAL SECTION CONTINUED

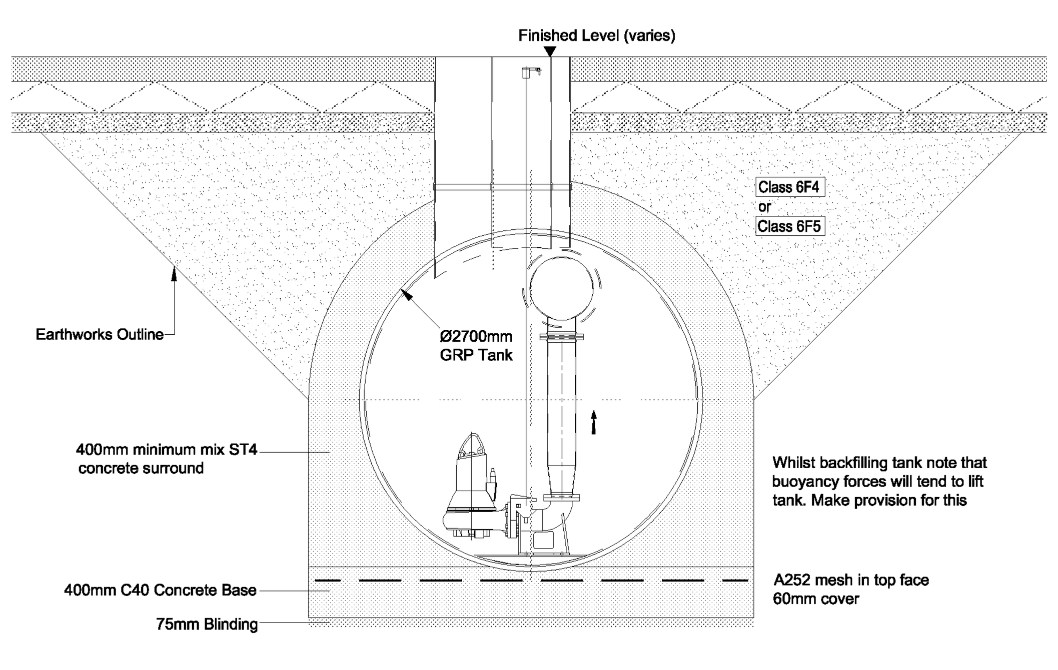
1:50 Scale



PUMPING STATION

Typical Long Section Scale 1:50

The Contractor shall ensure that there is a watertight interface between the Stage 1 and Stage 2 pours.
The tank surround is intended to prevent deformation from hydrostatic pressure and resist flotation



PUMPING STATION

Typical Cross Section Scale 1:50

NOTES

1 This drawing shall be read in conjunction with all relevant Architects and Engineers drawings and specifications.

2 Dimensions are in metres unless noted otherwise.

3 Original topographic survey undertaken by Shaw Colegate.
For full topographic survey information see Shaw Colegate drawing No. 10417-TP
All levels based on Ordnance Survey by GPS.

4 Before excavation commences, the Contractor shall ascertain the depths, sizes and locations of all services to be crossed. Any conflicts in levels between new works and existing services shall be notified to the Engineer and Client.

5 Pump Specification for Surface Water Pumping Station :

Pumps / Tank shall be by Spel (Tel. 01743 457977) or equivalent, and shall be in accordance with the following :

Chamber	: 2.70m diameter (O/D), 7.40m long, 36,400 litre GRP Tank, three pump packaged Station, with 400mm minimum Mix ST4 concrete surround.
Pumps	: 3 No. submersible Grundfos SE1 pumps, with cooling jackets
Max. Flow	: 220 L/sec
Arrangement	: Duty / Assist / Assist
Electric Supply	: 3 Phase
Level Controls	: Float Switches

All Pumps shall be switched to operate at least once per week.

High Level Alarm, Telemetry and Operating Manuals shall be provided.
Alarm and Control Panel positions shall be confirmed by the Architect and Engineer
Telephone Nos. for Telemetry to be advised.
Spel Quote Ref. 06270/003
Incoming and outgoing pipe orientation and sizes shall be noted.

The Contractor shall provide, install and commission the pumping station, and shall confirm duty flow through a witnessed draw down test, and report sent to Contract Administrator.

Provision of station shall include maintenance manuals, lifting davit, manhole keys etc., and 1 years maintenance from date of substantial completion certificate.

6 Earthworks outline is not recommended, it is for measurement purposes only.

7 Site welded joints are required for the HDPE rising main. The flap valve shall also be site welded to the rising main.

OUTSTANDING DESIGN ITEMS :

- Thrust block design.

REV	DESCRIPTION	CHECKED	DATE
P2	DRAWING ISSUED FOR COMMENT.	-	PF-11-12-17

Archibald Shaw

[redacted]

CLIENT
Barfoots of Botley

PROJECT
New Packhouse
Sefter Farm, Pagham
Surface Water Drainage to Outfall

DRAWN BY	CHECKED BY	DESIGNED BY
PF	VC	PF
SCALE @ A1	©DATE	STATUS
as shown	Nov. 2017	Preliminary
JOB NO.	DRAWING NO.	REVISION
28725	109	P2

ARUN DISTRICT COUNCIL P/1/17/DOC