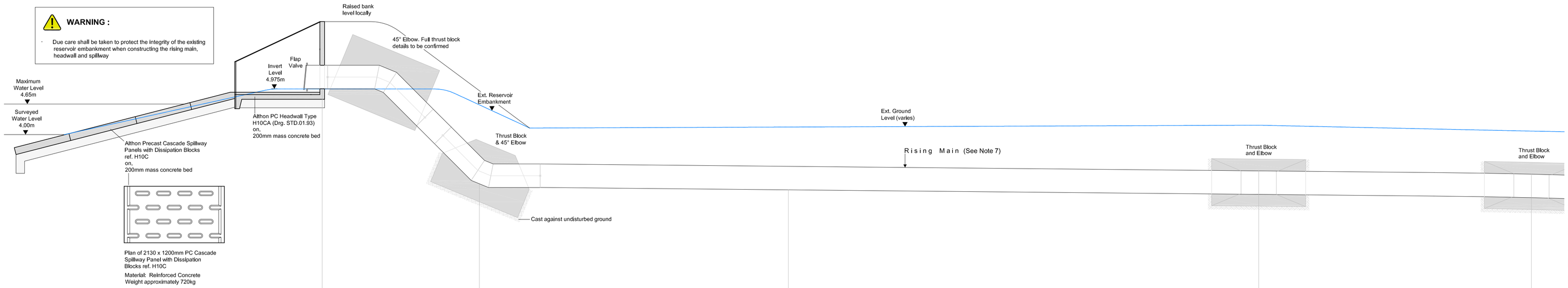
WARNING :

- Due care shall be taken to protect the integrity of the existing reservoir embankment when constructing the rising main, headwall and spillway



CONTINUED BELOW

RISING MAIN LONGITUDINAL SECTION

1:50 Scale

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 (flows from a 1/100 year storm event + 40%)
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.

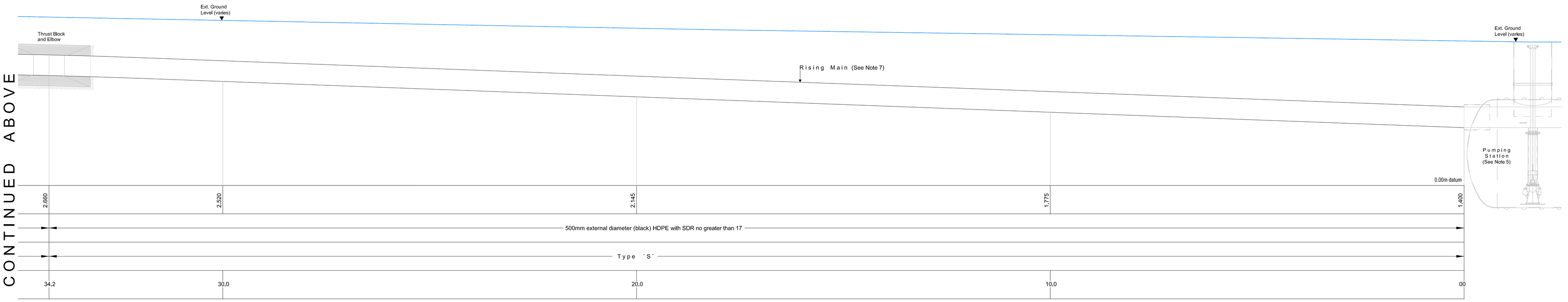
   Spel Quote Ref. 06270/003

   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.

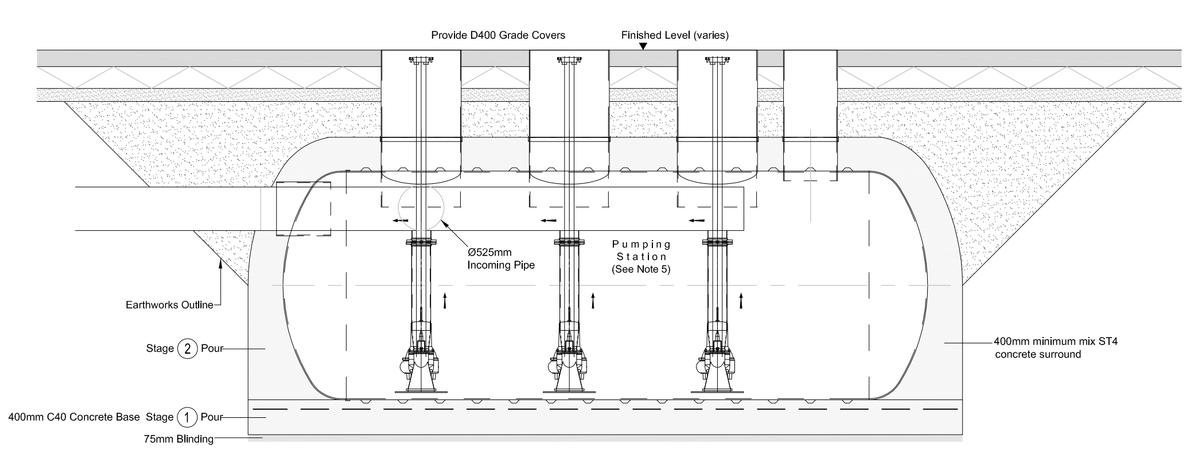
   Provision of station shall include maintenance manuals, lifting davit, manhole keys etc., and 1 years maintenance from date of substantial completion certificate.
6. Earthworks outline is not recommended, it is for measurement purposes only.
7. HDPE rising main by GPS UK or equivalent. Site welded joints are required for the HDPE rising main. The flap valve shall also be site welded to the rising main. HDPE pipes shall be wrapped in 2 layers of plastic sheeting (nom. thickness 250 microns) prior to being surrounded in concrete.
8. Warning marker tape shall be placed 300mm above the rising main.

CONTINUED ABOVE



LONGITUDINAL SECTION CONTINUED

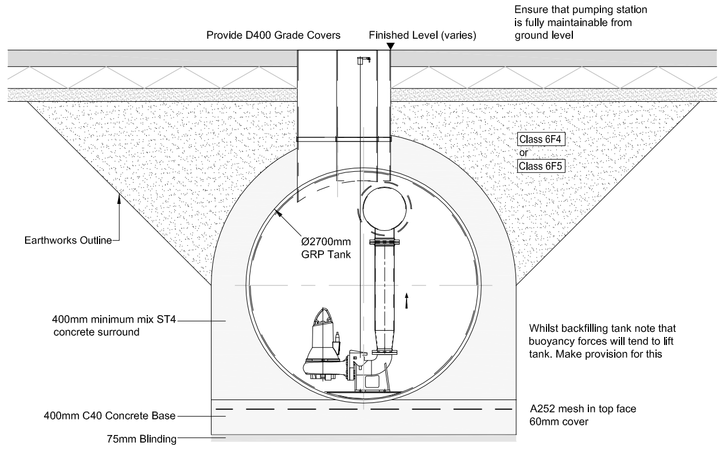
1:50 Scale



PUMPING STATION

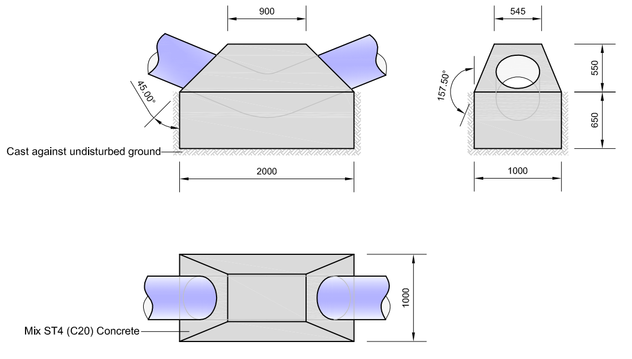
Typical Long Section Scale 1:50

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



THRUST BLOCKS

Scale 1:50

Thrust blocks shall be allowed to develop adequate strength before any internal pressure is applied to the rising main

REV	DESCRIPTION	CHECKED	DATE
C1	FOR CONSTRUCTION ISSUE.	-	PF-01-02-18
P2	DRAWING ISSUED FOR COMMENT.	-	PF-11-12-17

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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	Construction
JOB NO.	DRAWING NO.	REVISION
28725	109	C1

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