

Connection into existing sewer,
contractor to review outfall
conditions and confirm position
and outfall level at least 1 week
prior to construction work
starting.

Surface water attenuation unit to
be provided.
Crate Soakaway. 25m3 storage
volume.
size currently based on 800mm
deep unit with 800mm minimum
cover and 95% void ratio

Key.

FI (1200)
CL 130.800
IL 130.000

Proposed foul sewer (invert level shown)

CI (1200)
CL 130.800
IL 130.000

Proposed Combined water sewer

S10 (1200)
CL 131.000
IL 128.391

Proposed surface water drain (roof water/
highway/treated external area flows only)

600/460/225 "non-accessible" inspection
chambers

Minimum 1200Ø "accessible" manholes

Proposed road gully and lateral Connection

Proposed Rodding Eye point

Proposed channel drainage system - hauraton
faserfix super or similar approved. 150mm wide.

Existing drain

Existing sewers to be diverted/made redundant
/built over

Indicative existing sewer easement

Proposed surface water attenuation unit

Proposed surface water flow control unit

Proposed Oil/Petrol interceptor or drainage treatment unit

Note: All Treatment units noted are for indicative costing
purposes only. Full detailed design specification to be obtained
from the manufactures prior to any orders being placed.

Proposed Package Pump station. - design by manufactures

Note: All Pump units noted are for indicative costing purposes
only. Full detailed design specification to be obtained from the
manufactures prior to any orders being placed.

Proposed Finished Floor Level

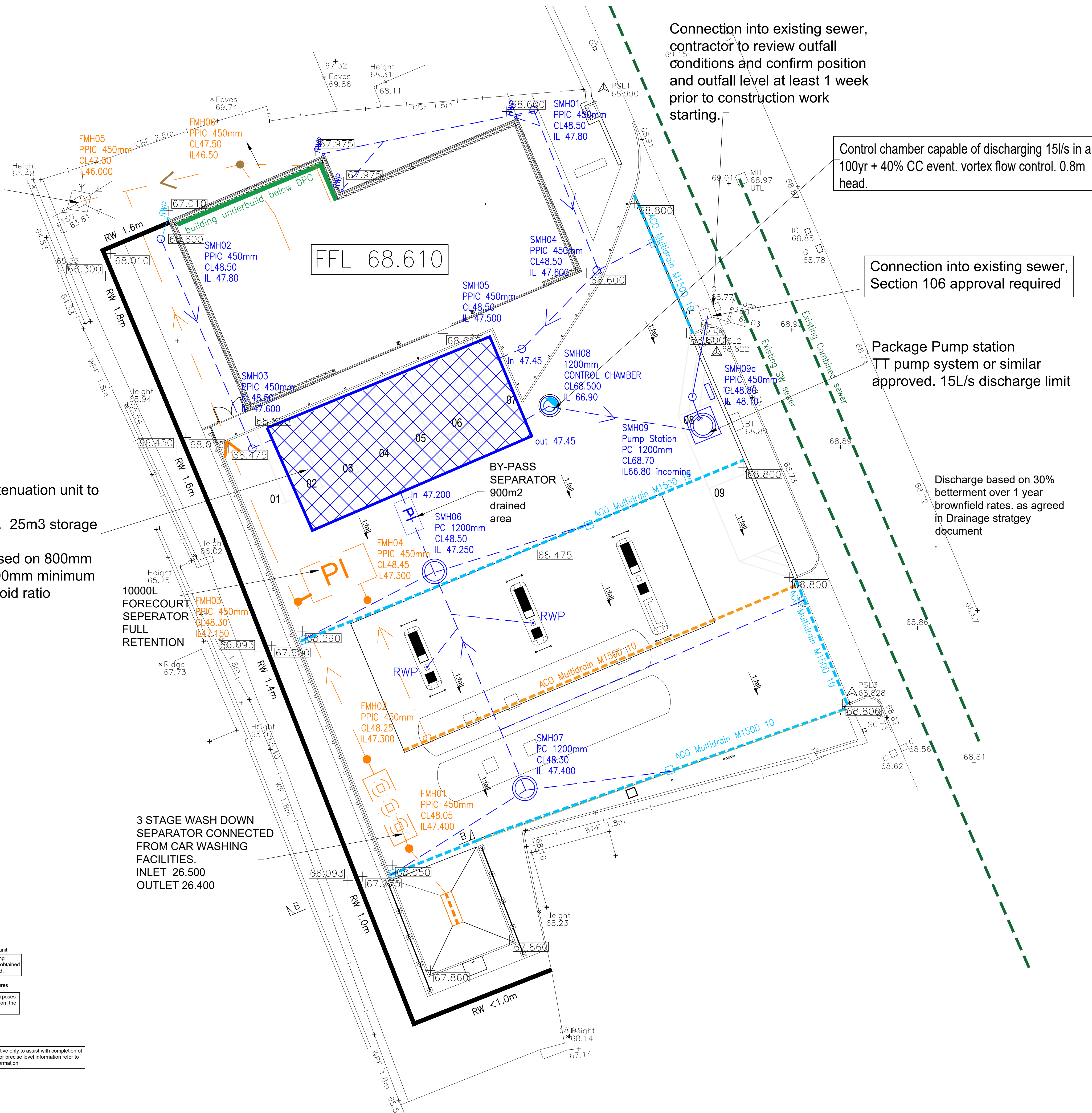
Proposed site levels

Proposed Gradients

Embankment (@1:3 unless stated)

Retaining wall/SOE detail

Underbuild detail



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Control chamber capable of discharging 15l/s in a
100yr + 40% CC event. vortex flow control. 0.8m
head.

Connection into existing sewer,
Section 106 approval required

Package Pump station
TT pump system or similar
approved. 15L/s discharge limit

Discharge based on 30%
betterment over 1 year
brownfield rates. as agreed
in Drainage strategy
document

General Notes

Do not scale this drawing. If in doubt, consult with the Engineer

- This drawing is to be read in conjunction with all other relevant Engineers, Architects and Specialist design drawings and specifications.
- All dimensions and levels are in metres unless noted otherwise.
- This drawing is for information purposes and all information displayed is subject to detailed design.
- Cover levels noted are indicative or best design levels. constructed levels should take into account as-built surfacing levels and gradients.
- The Contractor shall be responsible for checking all tie-ins for line and level with existing foul and surface water systems before commencing any works.
- The Engineer shall be notified immediately, in writing, should any errors or discrepancies be found prior to the commencement or continuation of any works. All work is to be carried out in accordance with current British Standards, Building Regulations and NHBC Standards.
- All drainage work is to be strictly in accordance with the requirements of the Building Regulations 2010, Approved Document Part H, "Drainage and waste disposal".
- It is the responsibility of the Contractor to execute the works at all times in strict accordance with the requirements of the Health and Safety at Work Act 1974, and the C.D.M. Regulations 2015. The Contractor will be deemed to have allowed for full compliance, including full liaison with the Principle Contractor, within his rates.
- All existing land drains encountered on site during construction are to be re-connected.
- Should any departure from the proposed slab or external levels be considered, agreement shall be sought from the Engineer immediately and prior to the commencement or continuation of any works. Proposals should take full account of all restrictions to the slab level.
- Temporary protection to be provided to drainage work during construction as necessary.
- Power supply to separator/treatment units, alarm, panel, vent etc to be provided by contractor in accordance with manufacturers recommendations.
- Topographical survey shown is based upon BHB existing site drawing 3548-02
- Architects layout shown is based upon BHB Site Layout drawing no. 3548-10
This layout may be subject to change and is intended for indicative purposes only.

Specification Notes

- The following types of pipe may be used unless noted or agreed otherwise;
 - Pipes up to 300mm diameter to be Structured Walled to BS EN 13476, Polypropylene to BS EN 1852 or PVC-U to BS EN 1401.
 - Pipes 300mm diameter or over to be Concrete to BS 5911.
- Both Clay and Concrete pipes shall be strength class 120 (100/150mm min crushing strength 28kN/m). Thermoplastic pipes shall have a minimum ring stiffness of SM4.
- Pipes which run adjacent to buildings shall be installed in strict accordance with Part H, Clauses 2.23 to 2.25.
- All pipes, chambers and fittings shall be installed, bedded and backfilled in accordance with the manufacturers instructions subject to the following minimum requirements;

Pipe Location	Cover to crown	Clay/Concrete Pipe * Bedding	Plastic Pipe Bedding	Backfill
Roads (HGV)	>1.2m <1.2m	Class S Class 'A' (Concrete)	Class S (S1or2) Class 'A' (Concrete)	Type 1 Granular
Drives / car parking	>0.9m <0.9m	Class S Class 'A' (Concrete)	Class S (S1or2) Class 'A' (Concrete)	Type 1 Granular
Hard and soft Landscaping	>0.6m <0.6m	Class S Class 'A' (Concrete)	Class S (S1or2) Class 'A' (Concrete)	Suitable as dug material

- The first flexible joint in pipes adjoining a manhole shall be a maximum length of 600mm from the inside face of the manhole, connecting to a rocker pipe. The length of the rocker pipe shall be as follows:

Pipe diameter	Length of Rocker pipe
150-600mm	600mm
675-750mm	1000mm
over 750mm	1250mm

- All manholes and inspection chambers situated in areas subject to vehicular loading to have class D400 covers and frames to BS EN124 and those not subject to vehicular loading to have class minimum class B125 covers and frames.
- Drainage frames must be tied to manhole risers by use of manufacturers ties (eg. Polypipe ref FRK500 fixing kit and FRK501 black ties.) The ground works contractor will be held fully responsible for any accidents due to incorrect fitting or failure to use the correct manufacturers fixing equipment.
- All drains in the vicinity of existing or proposed trees to be constructed in accordance with the requirements of NHBC Practice Note 3.

P02	05.10.23	Revised to pumping station requirement	BD
P01	20.08.23	Initial issue.	BD
REV	DATE	DESCRIPTION	BY

Mr Arif Asmal

PROJECT
Heckmonwike Road,
Dewsbury, Leeds

DRAWING TITLE
Proposed Drainage Layout

PRELIMINARY/COSTING

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DRAWN BY	EB	DATE	August 2023
CHECKED BY	PR	SCALE	As Shown @ A1
ABA PROJECT No	16524	SHEET SIZE	A1
DRAWING No	16524-ABA-23-00-DR-C-500	REVISION	P02