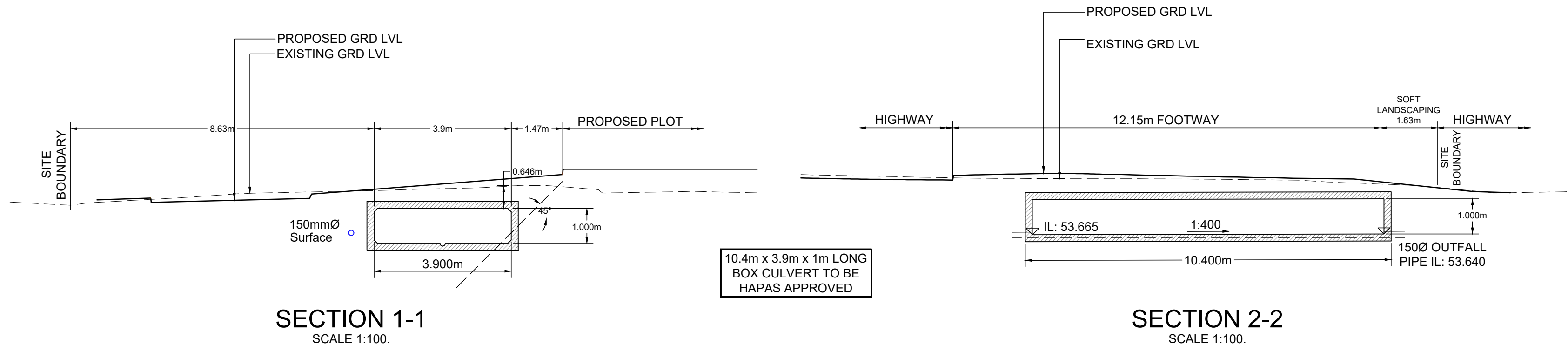




NOTES:

THE ENGINEER SHALL BE PROVIDED WITH A COPY OF THE DESIGN AND DRAWINGS BY THE TANK MANUFACTURER PRIOR TO THE CONTRACTOR ORDERING OR INSTALLING THE TANK TO ALLOW A REVIEW OF THE DETAILS.

PLASTIC TANKS SHALL ONLY BE INSTALLED IN PRIVATE AREAS AND NOT IMMEDIATELY ADJACENT OR WITHIN THE INFLUENCE ZONE OF A PUBLIC HIGHWAY.

WHERE TANKS ARE PROVIDED UNDER, IMMEDIATELY ADJACENT TO OR WITHIN THE INFLUENCE OF A PUBLIC HIGHWAY THEN THE TANK PROVIDED SHALL BE HAPAS APPROVED (HIGHWAY AUTHORITY PRODUCT APPROVAL SCHEME) THE TANK DESIGN AND DETAILS SHALL BE SUBMITTED TO THE ADOPTING AUTHORITY FOR THEIR APPROVAL. IT IS LIKELY THAT A CONCRETE TANK WILL BE REQUIRED.

WHERE TANKS REQUIRE ADOPTING HIGHWAY AUTHORITY APPROVALS NO TANKS SHALL BE ORDERED OR INSTALLED UNTIL FULL TECHNICAL APPROVAL HAS BEEN PROVIDED BY THE ADOPTING HIGHWAY AUTHORITY. THE CONTRACTOR SHALL ALLOW TIME WITHIN THEIR CONSTRUCTION PROGRAMME TO OBTAIN THE NECESSARY TECHNICAL APPROVALS FROM THE ADOPTING AUTHORITY.

ATTENUATION PRODUCT SPECIFICATION

A PRODUCT WITH A VOID RATIO OF 94% IS ASSUMED IN THE DESIGN OF THE ATTENUATION TANK. IF A DIFFERENT VOID RATIO IS USED THEN THE ENGINEER SHALL BE CONSULTED SO THAT A DESIGN CHECK CAN BE CARRIED OUT.

TANKS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND DETAILS.

NO TEMPORARY MOUNDING OF EARTH OR OTHER CONSTRUCTION MATERIALS SHALL BE PLACED OVER OR WITHIN INFLUENCE ZONE OF THE TANK ONCE INSTALLED.

CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WORKS TO ENSURE STABILITY OF ALL EXCAVATIONS REQUIRED TO INSTALL THE TANK SYSTEM.

ATTENUATION TANK DESIGN LOADING REQUIREMENTS.

THE FOLLOWING DESIGN LOADS SHALL BE ALLOWED IN THE DESIGN OF THE TANK.

A MINIMUM LIVE LOADING OF 10kN/m² SHALL BE ALLOWED IN THE TANK DESIGN.

A MINIMUM BACK FILL LOADING OF 35kN/m² SHALL BE ASSUMED IN THE TANK DESIGN.

A MINIMUM LATERAL COMPRESSIVE STRENGTH OF 33kN/m² SHALL BE ALLOWED IN THE TANK DESIGN.

CONSTRUCTION PLANT SHALL NOT BE ALLOWED TO CROSS OVER OR CROSS WITHIN THE INFLUENCE ZONE OF THE TANK UNLESS SPECIFICALLY DESIGNED FOR BY THE CONTRACTOR / TANK DESIGNER.

NO CRANES SHALL BE ALLOWED TO SET UP OVER OR WITHIN THE INFLUENCE ZONE OF THE TANK UNDER ANY CIRCUMSTANCE.

GROUND WATER.

NO GROUND WATER HAS ASSUMED IN THE DESIGN OF THE TANK.

IF GROUND WATER IS ENCOUNTERED DURING THE INSTALLATION OF THE TANK ALL WORKS SHALL STOP AND THE ENGINEER SHALL BE INFORMED AS THE TANK CONSTRUCTION DETAILS WILL REQUIRE TO BE REVIEWED. CONSTRUCTION DETAILS MAY CHANGE.

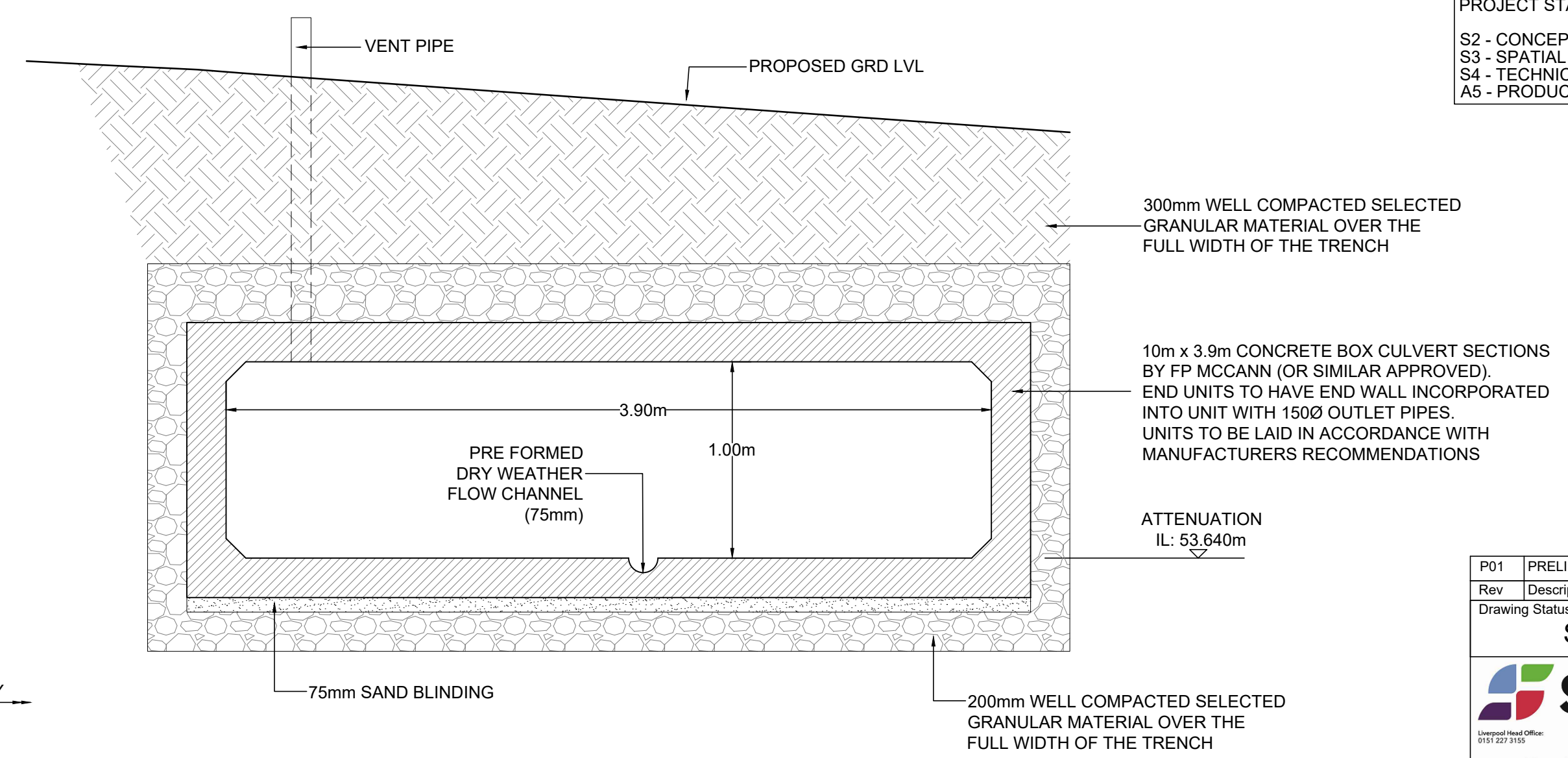
WHERE GROUND WATER IS IDENTIFIED ON SITE A FLOATATION CALCULATION WILL BE REQUIRED TO BE CARRIED OUT ON THE TANK AND WILL LIKELY AFFECT THE INSTALLATION DETAILS / REQUIREMENTS OF THE TANK.

BUILDING FOUNDATIONS.

TANKS SHALL GENERALLY BE LOCATED NO CLOSER THAN 3m TO THE NEAREST POINT OF A BUILDING OR OTHER STRUCTURE.

TANKS THAT ARE LOCATED CLOSE TO BUILDINGS OR OTHER STRUCTURES MAY INFLUENCE THE CONSTRUCTION OF THE FOUNDATIONS. THIS WILL RESULT IN THE FOUNDATIONS BEING EXCAVATED INTO ACCEPTABLE BEARING STRATA DEEPER THAN WOULD NORMALLY BE REQUIRED.

WHERE SLOPING GROUND CONDITIONS EXIST ON SITE THE ENGINEER SHALL BE CONTACTED FOR FURTHER ADVICE AND CONFIRMATION OF FOUNDATION DEPTHS.



TYPICAL SECTION THROUGH ATTENUATION
SCALE 1:25

GENERAL NOTES

THIS DRAWING TO READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR / FABRICATOR PRIOR TO COMMENCEMENT OF WORKS.

ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.

ALL WORKS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ENGINEER'S SPECIFICATIONS, RELEVANT BRITISH STANDARDS AND WHERE APPLICABLE LOCAL AUTHORITIES REQUIREMENTS.

EXISTING SERVICES.

CONTRACTOR TO SATISFY THEMSELVES THAT EXISTING AND PROPOSED SERVICES DO NOT CLASH WITH PROPOSED DRAINAGE

THE CONTRACTOR PRIOR TO START OF WORKS IS TO ENSURE THAT PROPOSED DRAINAGE LEVELS DO NOT INTERFERE WITH SERVICES. ALL DISCREPANCIES SHALL BE REPORTED TO ENGINEER IMMEDIATELY.

THE CONTRACTOR SHALL CHECK ALL EXISTING COVER / INVERT LEVELS AND PIPE / SEWER SIZES ON SITE PRIOR TO START OF WORKS TO ENSURE PROPOSED DRAINAGE CAN BE CONSTRUCTED AS INDICATED ON THE DRAWING. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

REDUNDANT DRAINAGE

DRAINS OR SEWERS LESS THAN 1.5m DEEP WHICH ARE IN OPEN GROUND SHOULD AS FAR AS IS PRACTICABLE BE REMOVED. OTHER PIPES SHOULD BE SEALED AT BOTH ENDS AND AT ANY POINT OF CONNECTION, AND GROUT FILLED TO ENSURE THAT RATS CANNOT GAIN ACCESS.

LARGER PIPES (225mm AND ABOVE) SHOULD BE GROUT FILLED TO PREVENT SUBSIDENCE OR DAMAGE TO BUILDINGS OR SERVICES IN THE EVENT OF COLLAPSE.

PRIVATE DRAINAGE KEY

- COMBINED DRAIN / SEWER
- SURFACE WATER DRAIN / SEWER
- FOUL WATER DRAIN / SEWER
- SITE BOUNDARY
- SURFACE WATER ATTENUATION

PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO ENSURE THAT THE PROPOSED WORKS DO NOT CLASH WITH THE EXISTING SERVICES. THE CONTRACTOR IS TO ALLOW FOR THIS PROVISION WITHIN THE TENDER SUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ATTAINING ALL NECESSARY APPROVALS FOR ANY SERVICE DIVERSIONS REQUIRED TO FACILITATE THE PROPOSED WORKS

DESIGN CONTINGENCY

FOR COST PURPOSES THE CONTRACTOR IS TO INCLUDE THE FOLLOWING CONTINGENCY (% OF PRIMARY CIVILS DESIGN COST) AT THE RELEVANT PROJECT STATUS INDICATED ON THE DRAWING.

- S2 - CONCEPT DESIGN - 25%
- S3 - SPATIAL COORDINATION - 15%
- S4 - TECHNICAL DESIGN - 10%
- A5 - PRODUCTION INFORMATION - 5%

P01	PRELIMINARY ISSUE	03.12.25	KW	AD
Rev	Description	Date	By	Chkd

Drawing Status

S2 - CONCEPT DESIGN

Sutcliffe Structural & Civil Engineering
Geotechnical & Environmental Investigation
Building Surveying
Pre Planning Services

Client: **JIGSAW HOMES**

Project: **OLDHAM ROAD
MILES PLATTING
FORMER APOLLO PUBLIC HOUSE**

Drawing Title: **SECTIONS THROUGH
ATTENUATION TANK**

Date DEC 25	Drawn By KW	Checked By AD
Scale at A1 1:200	Project Number 33585	Status S2
Revision P01	Sheet Number	

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