

NOTES

- All setting out to be in accordance with the Architects drawings. Any discrepancies between the Engineers and the Architects drawings to be referred to the Architect before proceeding. Dimensions must not be scaled.
- All levels are in metres above Ordnance datum.
- The Contractor is to comply with CDM regulations in the course of constructing the works.
- At the commencement of the works, the Contractor is to carry out trial pits and liaise with utility companies in order to establish the exact position of all existing utility plant in the vicinity of the works and take adequate precautions for their protection.
- The Contractor is to refer to Health and Safety Executive "Note 47 - Avoiding Danger from Underground Services" and "Document G56 - Avoiding Danger from Overhead Electric Lines".
- The Contractor is responsible for the traffic safety and management associated with the construction of the works. Works will not commence on the existing highway until their traffic management proposals have been agreed with Southend Borough Council.
- Where the works involve the obstruction of a footway, the Contractor will provide an alternative safe footway properly signed, guarded and lit.

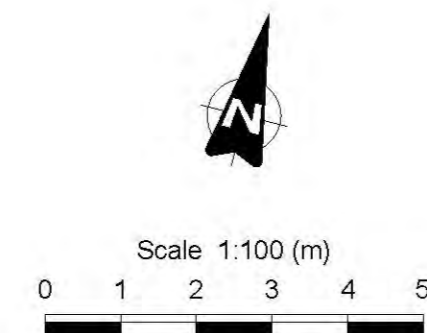
- Where one-way traffic is unavoidable, traffic will be controlled by a proper system of vehicle-actuated traffic signals or manual stop/go signs and during the hours of darkness, by a proper system of vehicle-actuated traffic signals, all to the approval of Southend Borough Council.
- Works on or adjacent to existing public highway will be executed in accordance with the Traffic Signs Code for Road Works and Traffic Signs Manual: Chapter 8.
- The Contractor will ascertain the CBR value of the subgrade in order to determine the required sub-base / capping thickness.
- Prior to laying any material, the subgrade must be inspected and any soft spots removed and filled with 6F2 capping material.
- 65mm Minimum thickness tactile paving, coloured buff will be incorporated at all pedestrian crossings in accordance with the Department for Transport and Regions document "Guidance on the Use of Tactile Paving Surfaces." (DETR No. 1998)
- All signs and road markings will be in accordance with the "Traffic Signs Regulations and General Directions 2016". (TSRGD 2016)
- All excavation and backfilling work in the existing highway to be in accordance with the provisions of the New Street

- Works Act 1991 or that specified on the working drawings.
- All highways works to be carried out in accordance with Southend Borough Council's highway standards, to the satisfaction of the Highway Authority Section 278 Inspector and in accordance with the Specification for Highway Works.
 - Gullies, gully connections, drains, manholes, catch pit, soakaways, headwalls and other drainage structures intended to convey only highway water are to be constructed in accordance with the specification of Southend Borough Council and to the satisfaction of the Highway Inspector.
 - Where existing junctions and accesses are to remain in operation within the works during the construction process, the Contractor will ensure that access to these units remains available at all times.
 - Highways in the vicinity of the works must be kept free from mud, debris and dust falling from vehicles or wheels of vehicles connected with the works. Where the deposits of debris and dust are unavoidable, warning signs must be displayed whilst work is in progress and affected carriageways / footways must be regularly cleaned.
 - Prior to the construction of any drainage works, the Contractor is to confirm the invert levels of existing manholes and sewers. Any variations from the designed

- levels shown on the drawings must be reported to the Drainage Engineer in advance of construction works commencing. All new sewer runs to be laid upstream of the outfall location.
- All manhole / valves / inspection covers in existing carriageway to be adjusted to suit design levels.
 - All drain and sewer pipes to be laid soffit to soffit, unless shown otherwise.
 - All adoptable drainage pipes will have 360° Class S granular bed and surround. However, any pipes below adoptable carriageway with less than 1.2m of cover (90mm in verges and untrafficked areas), will be Class Z surrounded with 150mm of ST4 concrete with flexible joints.
- Source:
- Topographical survey by Randal Surveys LLP Drawing No. 11938/TM/1G
 - Proposed site layout by ADP Architecture Drawing No. ESQ2 A-0910 Revision 1
 - Architectural floor plans by ADP Architecture Drawing No. ESQ2 A-1000 A-1001 Revision 1
 - M&E Ground floor plan by Elementa Consulting Drawing No. ESQ3 ELE-XX-B1-52101_P1

IDENTIFIES RISKS DURING THE CONSTRUCTION PROCESS ON THE DRAWINGS:

NOTE: The list below and notes on the drawing identify risks which are deemed to be unusual, abnormal, residual or unexpected to a competent contractor carrying out the works. These notes relate to risks which we have been unable to design out.



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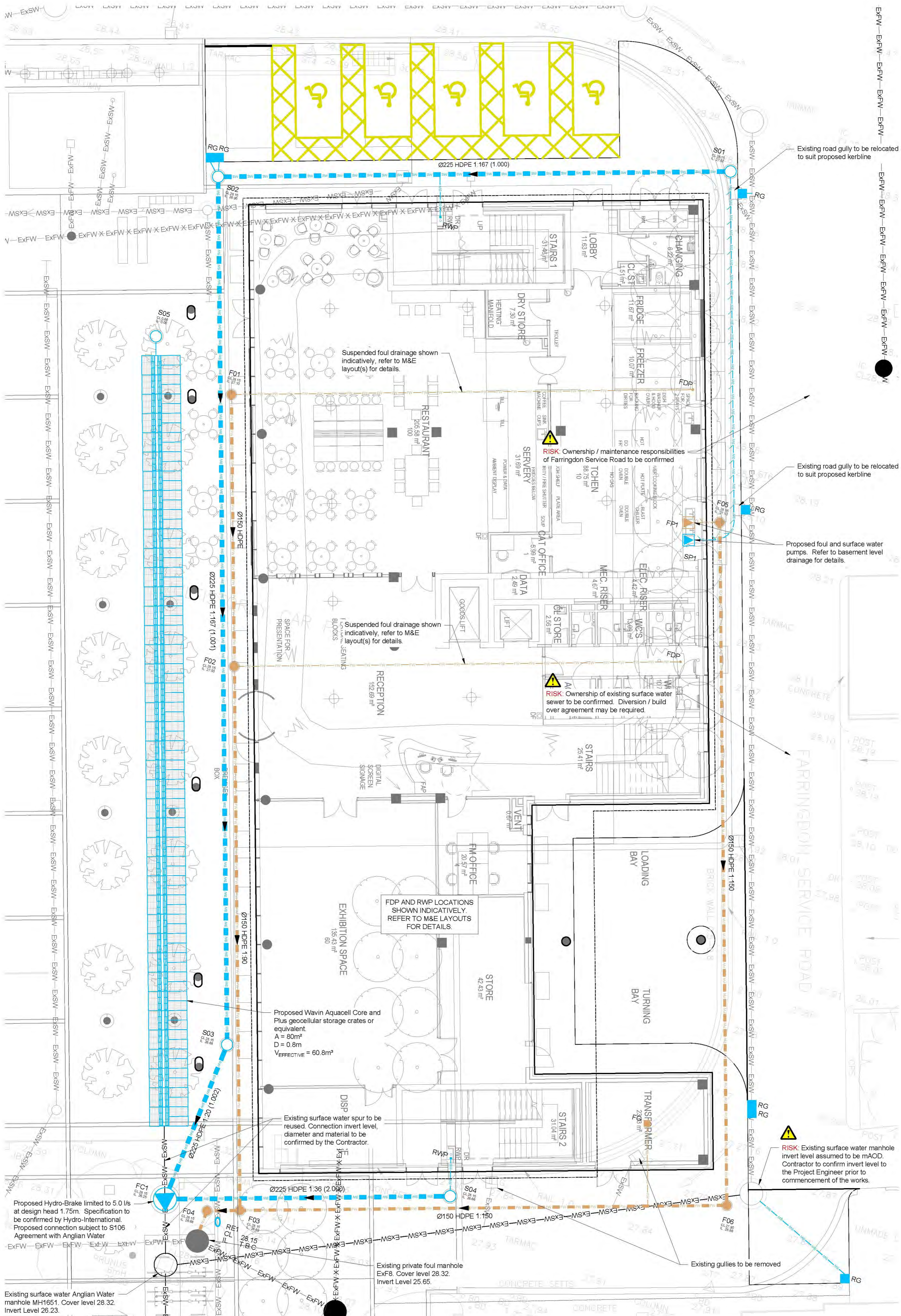
GENERAL NOTES

- KEY - PRIVATE FOUL DRAINAGE**
Scale: 1:100 @ A1
- Existing private foul sewer and manhole
 - Existing private foul rising main
 - Abandoned private foul sewer
 - Abandoned private foul rising main
 - Private foul sewer and manhole
 - Private foul rising main
 - Private foul inspection chamber (IC)
 - Private foul pump (FP1)
 - Foul drain point (FDP)
 - Foul gully (FG)

- KEY - PUBLIC FOUL DRAINAGE**
Scale: 1:100 @ A1
- Existing public foul sewer and manhole
 - Existing public foul rising main
 - Abandoned public foul sewer

- KEY - PRIVATE SURFACE WATER DRAINAGE**
Scale: 1:100 @ A1
- Existing private surface water sewer and manhole
 - Existing private surface water rising main
 - Abandoned private surface water sewer
 - Abandoned private surface water rising main
 - Private surface water sewer and manhole
 - Private surface water rising main
 - Private flow control (FC) manhole (FC1)
 - Private surface water inspection chamber (IC)
 - Private surface water catch pit (CP)
 - Private surface water silt trap (ST)
 - Private surface water pump (SP1)
 - Rodding eye (RE)
 - Rain water pipe (RWP)
 - Road gully (RG)
 - Yard gully (YG)
 - Formpave 354x708x150mm distribution tank or equivalent
 - Marshalls 305x150mm dished channel (DC) or equivalent
 - PDS Envirochannel and outlet or equivalent
 - Wavin 1.0x0.5x0.4m Aquacell Core and Plus storage crates or equivalent

- KEY - PUBLIC SURFACE WATER DRAINAGE**
Scale: 1:100 @ A1
- Existing public surface water sewer and manhole
 - Existing public surface water rising main
 - Abandoned public surface water sewer



- P05 Foul gully added to plant room. Attenuation AJC AJC 22/05/19 reshaped following email 13 May 19
- P04 Architect's layout updated. Drainage revised to suit. AJC AJC 12/04/19
- P03 Ground level drainage rerouted to the west of the proposed building. AJC GT 10/12/18
- P02 Floor plans updated. Ground and basement level drainage revised to suit. AJC GT 08/12/18
- P01 Preliminary issue. AJC GT 31/10/18

Rev.	Amendment	Drn	Chkd	Date
PRELIMINARY S3				

AKSWard

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Project: **The Forum, Elmer Square Southend on Sea**
Title: **Ground Level Drainage Layout**

Reviewed Scheme	G Taylor	Date	10 Dec 18
Reviewed Final		Date	
Scales at A1	1:100	Project No.	L181070
Project Ref.	Originator	Zone	Level
	Type	Role	Drng No.
			Rev.