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West End
Joiners & Builders Ltd

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CONSTRUCTION STAGE DRAINAGE STRATEGY

ST PAULS ROAD, MIRFIELD

1. Introduction

The works at 1-3, St Paul's Road, Mirfield, WF14 8AX consist of the demolition of existing building and the erection of a two-storey living apartment block with associated offices, gardens and parking spaces. The scheme will be constructed in a single phase over a 52 period.

The purpose of this Construction Stage Drainage Strategy document is to provide a method statement for the interim and temporary drainage measures to be adopted during the demolition, enabling works and the construction stage of the proposed development to demonstrate how the site will be drained to ensure there is no increase in the off-site flows, nor pollution, debris and sediment to any receiving watercourse or sewer system, to satisfy the requirements of the Planning Approval

2. Temporary Drainage / Connections

During the **initial enabling works** the site will continue to drain as it does at present. Protective bunding will also be put in place at the downhill areas of the site as detailed on the attached Temporary Drainage Disposal Plans

Any bunding likely to create ponding of storm water shall have a relief trench and silt trap which either leads to the collection pipe or can be pumped out in isolation

Post site strip there is a need for initial temporary drainage and surface water treatment for the site during these initial works. Storm water across the site will run off in the same manner as existing and as identified on the temporary drainage plan.

A narrow trench not exceeding 900mm in depth with be excavated by means of a fully qualified operator in control of a fully certified excavator. The arising from such a trench will be removed from site to licensed land fill.

A perforated **collection pipe** will be laid in trench and then backfilled with clean granular material which will collect the oversite storm water run off and channel through to the existing sewer connection within the site

As the connection within the site to the existing main sewer is existing, and to eleviate the potential problem of silt contamination, the collection pipe will be wrapped in a membrane and will terminate in a temporary silt trap prior to discharge into the existing sewer connection.

This silt trap will be regularly inspected on a weekly basis to ensure the maximum permissible levels of sepearted silt do not overflow into the sewer network. Periodically this silt will be pumped out and removed by means of licensed tanker to the appropriate disposal point off site.

The location, design and capacity of the collection pipe will be designed as such to accommodate the requirements of the 1 in 1 year 6 hour storm event.

In the unlikely event that the temporary installations cannot accommodate excessive storm / rainfall conditions, tankers will be deployed to pump and take away overflow

Following the initial enabling works exercise and **post attenuation install phase** the main elements of the permanent surface water drainage will be constructed as per the approved design, the attenuation tank shall be used as a holding tank and water pumped out periodically to manage sedimentation release.

This will allow site potential ponding areas created by the installation of foundations and the further sub-structure works to be drained via localised temporary filter drainage trenches and silt traps.

Working Platforms will be established to the required levels utilizing granular material which will be naturally free draining.

Foundation installation will follow as the next stage of work and will involve relatively shallow strip trenches in places

These foundation trenches will be excavated locally and will be formed and concreted within a few days of excavation, therefore causing no risk to flooding. Particularly deep excavations will only be excavated in dry weather and the small amount of rainwater will naturally percolate into the ground.

During the construction stage, any areas outside of those drained by the temporary drainage systems, shall be monitored by the contractor on a regular basis.

3 On Site / Off Site Protection & Wheel Washing

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The contractor will ensure that a universal spill kit and an oil only spill kit is available on site at all times.

The number of spill kits should be assessed by the contractor based on the schedule and location of works taking place on the site.

Typical contents of a universal spill kit will include:
Gloves
Absorbent socks
Absorbent pads
Disposable bags and ties

As detailed in the CMP. Wheelwashing facilities will be provided on site immediately adjacent to the site entrance. All vehicles exiting the site will be subject to wheel washing by the dedicated gateman. Any run off from the operation will be collected by the temporary collection pipe and through the temporary silt trap prior to draining away into the existing sewer connection.

Road sweepers will be deployed during heavy use in the initial stages and until such time as the hard landscaped areas are formed to minimise the contamination of adjacent and adjoining roads and carriageways.

A dedicated gate man will be responsible for the general upkeep and cleaning of the site entrance and the roads immediately leading to and from the site.

DO NOT SCALE

DESIGNERS HAZARD IDENTIFICATION

IT IS ASSUMED THAT ALL WORKS WILL BE UNDERTAKEN BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT. IN ADDITION TO THE HAZARDS TYPICALLY ASSOCIATED WITH THE TYPES OF CONSTRUCTION DETAILED ON THIS DRAWING, ANY KNOWN ABNORMAL HAZARDS SPECIFIC TO THIS SCHEME HAVE BEEN IDENTIFIED

ABNORMAL HAZARD REFERENCE

GENERAL NOTES

1 THIS DRAWING HAS BEEN PRODUCED FOR PLANNING SUBMISSION AS PART OF THE CONSTRUCTION STAGE DRAINAGE STRATEGY PLAN AND SHOULD BE INCORPORATED BY THE CONTRACTOR DURING THE CONSTRUCTION WORKS

2 THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT, AND TEMPORARY AND PERMANENT DIVERSION WORKS, AS NECESSARY TO ALL EXISTING SERVICES

3 THE CONTRACTOR SHALL ALLOW FOR KEEPING TRENCHES AND EXCAVATIONS AS DRY AS PRACTICABLE BY PUMPING FROM TEMPORARY SUMPS AND DEWATERING AS APPROPRIATE. THE POINT AND METHOD OF DISCHARGE TO BE AGREED WITH THE DRAINAGE AUTHORITY AND ENVIRONMENT AGENCY

4 CONTRACTOR IS TO CHECK ALL DRAWINGS AND REPORT ANY DISCREPANCIES IMMEDIATELY

5 ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH/EUROPEAN STANDARDS BSEN752, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL REQUIREMENTS INCLUDING FINAL INSPECTION AND TESTING

EXISTING DRAINAGE

6 THE SITE HAS AN EXISTING PIPED CONNECTION INTO THE 300Ø YORKSHIRE WATER COMBINED SEWER IN ST PAULS ROAD, AND IS CURRENTLY DISCHARGES ITS SURFACE AND FOUL WATER UNRESTRICTED

7. THE TEMPORARY DRAINAGE PROPOSALS ARE TO RETAIN PART OF THE OUTFALL PIPE AND INSTALL A CATCHPIT PPIC PRIOR TO THE DISCHARGE INTO THE YW SEWER, WITH THE UPSTREAM PART OF THE PIPE TO BE ABANDONED AND REMOVED AS PART OF THE DEMOLITION WORKS

CONSTRUCTION STAGE DRAINAGE

8 WESTERN BOUNDARY BUND TO PROTECT FROM CONSTRUCTION STAGE SURFACE WATER RUNOFF COMPRISING PLACED SHAPED BUND WITH MEMBRANE OVER AND BURIED SURFACE LEVEL PERFORATED COLLECTOR DRAIN ALL TAKEN THROUGH SILT COLLECTION SYSTEM (STRAW/SILT BUSTER ETC) TO ENSURE THAT ALL SILTS ARE REMOVED

9 COLLECTED AND CLEANED SURFACE WATER TO DISCHARGE TO EXISTING POND ON WESTERN BOUNDARY.

10 NO SITE WORKS TO COMMENCE UNTIL DETAILED TEMPORARY SURFACE WATER DRAINAGE ARRANGEMENTS DURING THE CONSTRUCTION OF THE DEVELOPMENT HAVE BEEN PREPARED AND SUBMITTED BY THE CONTRACTOR AS PART OF THE CONSTRUCTION STAGE MANAGEMENT PLAN AND APPROVED IN WRITING BY THE LOCAL PLANNING AUTHORITY

11 THE SCHEME SHALL DETAIL PHASING OF THE DEVELOPMENT AND PHASING OF TEMPORARY DRAINAGE PROVISION. THE TEMPORARY DRAINAGE SCHEME SHALL INCLUDE MEASURES TO SAFEGUARD THE WATER QUALITY AND PROTECT THE DOWNSTREAM DRAINAGE SYSTEM AND ATTENUATION FROM SILTATION DUE TO RUNOFF FROM THE SITE DURING CONSTRUCTION. THE TEMPORARY WORKS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE APPROVED SCHEME AND PHASING

12 NO PHASE OF THE DEVELOPMENT SHALL BE COMMENCED UNTIL THE TEMPORARY WORKS APPROVED FOR THAT PHASE HAVE BEEN COMPLETED. THE APPROVED TEMPORARY DRAINAGE SCHEME SHALL BE MAINTAINED UNTIL THE APPROVED PERMANENT SURFACE WATER DRAINAGE SYSTEM IS IN PLACE AND FUNCTIONING

13 ALL TO ENSURE THE PROVISION OF ADEQUATE TEMPORARY MEANS OF DRAINAGE IN THE INTERESTS OF AMENITY, IN ACCORDANCE WITH LOCAL COUNCIL POLICIES

DATE	REVISION DESCRIPTION	BY	CHK	REV
03.09.24	MORE INFO AND DETAILS ADDED	GD	HB	P2
14.06.24	PRELIMINARY ISSUE	HB	AMW	P1

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PROJECT
SUPPORTED LIVING
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TITLE
TEMPORARY DRAINAGE PROPOSALS

SCALE	PAPER	STATUS
1:100	A1	PRELIMINARY

DRAWING NO	REV
19383-DCE-XX-XX-D-C-105	P2