

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing. Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

Legend

- Existing Surface Sewer
- Existing Combined Sewer
- Indicative Proposed Surface Water Sewer
- Indicative Proposed Foul Water Sewer
- Application Boundary
- Indicative Phase 1 Boundary
- Proposed storage basins
- Indicative surface water catchment boundaries

SURFACE DRAINAGE SUMMARY
INFORMATION BELOW IS BASED ON UU
SEWER RECORDS AND SurveyENG Ltd
Topographical Land Survey RH.TS.21 Rev A

THE SITE IS LOCATED IN FLOOD ZONE 1
WITH NO EVIDENCE OF HISTORIC
FLOODING

SITE TO ACCOMMODATE FLOWS UP TO
AND INCLUDING THE 100 YEAR +50%
CLIMATE CHANGE EVENT

THERE ARE NO RECORDS OF EXISTING
UU SURFACE WATER SEWERS WITHIN
THE SITE BOUNDARY

RECORDS SHOW EXISTING LAND
DRAINS AND WATER COURSES INSIDE
THE BOUNDARY OF THE SITE

SOAKAWAY TESTING TO BE
CONDUCTED THROUGHOUT THE SITE
TAKING INTO ACCOUNT THE
UNDERGROUND AQUIFERS

SURFACE WATER TO DRAIN TO EITHER
THE ROCDALE CANAL OR WHITE
BROOK VIA THE EXISTING WATER
COURSE AT THE SOUTH WEST OF THE
SITE

THE FRA ADVISES A DISCHARGE RATE
OF 117.4L/S BE USED TO DRAIN THE
89.825ha SITE

FOUL DRAINAGE SUMMARY
INFORMATION BELOW IS BASED ON UU
SEWER RECORDS AND SurveyENG Ltd
Topographical Land Survey RH.TS.21 Rev A

IT IS PROPOSED TO CREATE A NUMBER
OF CONNECTIONS AROUND THE
WESTERN BOUNDARY OF THE SITE INTO
THE EXISTING UU COMBINED SEWERS

GROUND CONDITIONS SUMMARY
INFORMATION BELOW IS BASED ON
SurveyENG Ltd Topographical Land Survey
RH.TS.21 Rev A

TO DATE ONLY A DESK STUDY HAS BEEN
CONDUCTED ON THE SITE

Surface water storage features
indicated are based on the
discharge rates indicated within
the Waterco FRA dated December
20. Pond sizes are based on 60%
of catchment being impermeable.
Pond sizes are subject to change
following revised greenfield run-off
figures.

Parcel	Flow l/s	Storage m³
A	15.73	7,200m³
B	15.40	7,050m³
C	11.32	5,150m³
D	13.98	8,250m³
E	5.86	2,500m³
F	22.23	9,950m³

The discharge rates given above are
taken from the Waterco FRA and are
subject to change following completion
of the revised FRA. Storage volumes
are based on 60% of the parcel area
being impermeable. Storage volume is
for the 1:100 year + 50% CC event.

ALL PROPOSALS IN THIS DRAWING ARE
SUBJECT TO DESIGN AND MODELING
AND SHOULD BE USED FOR GUIDANCE
PURPOSES ONLY.

ALL DETAILS IN THIS DRAWING ARE
SUBJECT TO APPROVAL FROM
ADOPTING/ CONSENTING AUTHORITIES
AND SHOULD BE USED FOR GUIDANCE
PURPOSES ONLY

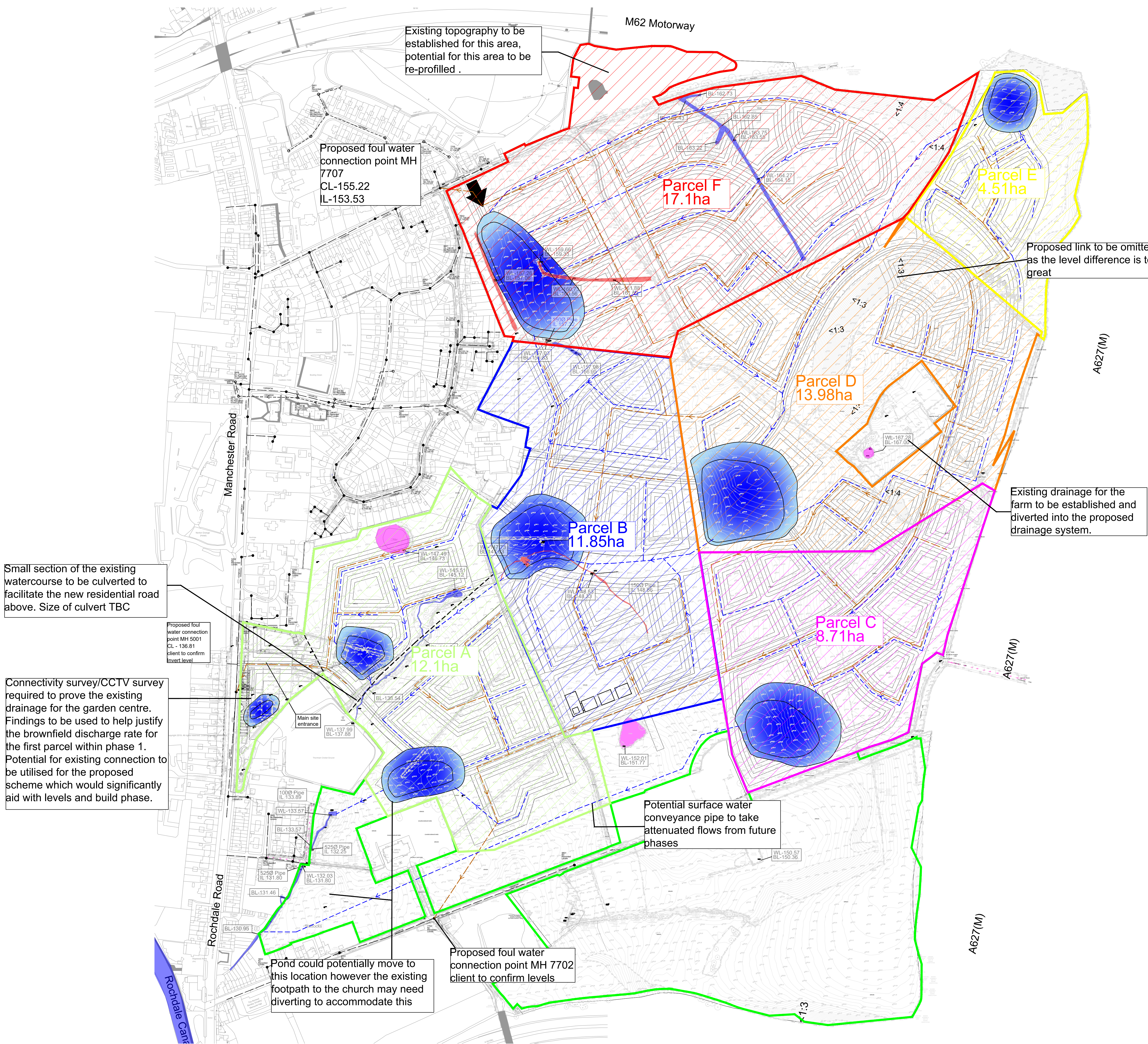
RSK HOLD NO RESPONSIBILITY FOR
ANY INACCURACIES OF ANY THIRD
PARTY INFORMATION INDICATED ON
THIS DRAWING.

Rev	Date	Amendment	Drawn	CHKD	App'd
P2	11.08.22	Remainder of the site included			MAR
P1	05.08.22	First issue			AP MAR



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Client		Redrow Homes									
Project Title		Stakehill									
Status		Information									
Drawing Title		Whole Site Drainage Strategy									
Drawn	Date	Checked	Date	Approved		Date					
AP	Aug 22	MAR	Aug 22								
Scale	Orig Size		Dimensions								
1:1000	A0		m								
Project No.		File Name									
882558		10-02-01									
Drawing No.										Rev.	
										P2	
Project No.	Orig.	Vol./Sys.	Lev./Loc.	Type	Role	Draw. No.					



Small section of the existing
watercourse to be culverted to
facilitate the new residential road
above. Size of culvert TBC

Connectivity survey/CCTV survey
required to prove the existing
drainage for the garden centre.
Findings to be used to help justify
the brownfield discharge rate for
the first parcel within phase 1.
Potential for existing connection to
be utilised for the proposed
scheme which would significantly
aid with levels and build phase.

Proposed foul
water connection
point MH 5001
CL - 136.81
client to confirm
invert level

Main site
entrance

Pond could potentially move to
this location however the existing
footpath to the church may need
diverting to accommodate this

Proposed foul water
connection point MH 7702
client to confirm levels

Potential surface water
conveyance pipe to take
attenuated flows from future
phases

Existing drainage for the
farm to be established and
diverted into the proposed
drainage system.

Proposed link to be omitted
as the level difference is too
great

Existing topography to be
established for this area,
potential for this area to be
re-profiled.