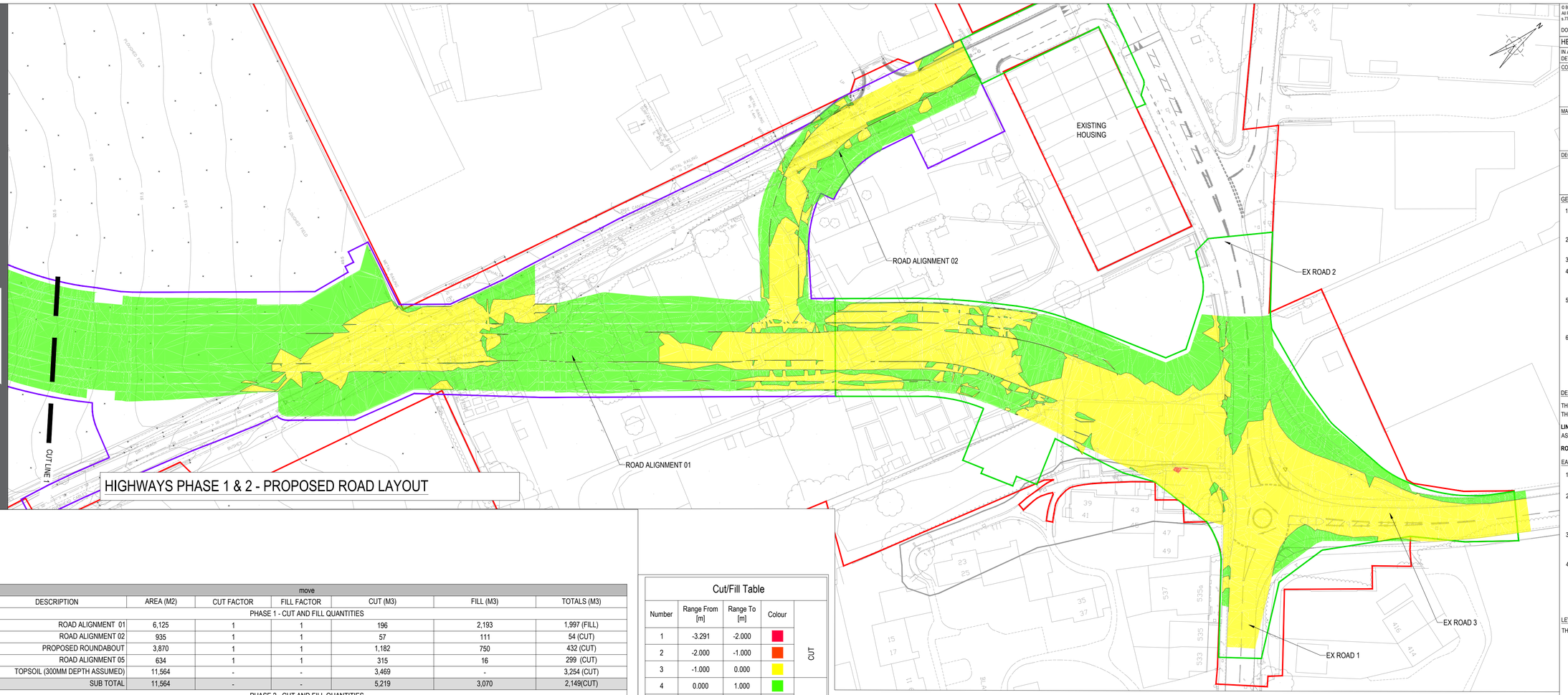


HIGHWAYS PHASE 1 & 2 - PROPOSED ROAD LAYOUT

move						
DESCRIPTION	AREA (M2)	CUT FACTOR	FILL FACTOR	CUT (M3)	FILL (M3)	TOTALS (M3)
PHASE 1 - CUT AND FILL QUANTITIES						
ROAD ALIGNMENT 01	6,125	1	1	196	2,193	1,997 (FILL)
ROAD ALIGNMENT 02	935	1	1	57	111	54 (CUT)
PROPOSED ROUNDABOUT	3,870	1	1	1,182	750	432 (CUT)
ROAD ALIGNMENT 05	634	1	1	315	16	299 (CUT)
TOPSOIL (300MM DEPTH ASSUMED)	11,564	-	-	3,469	-	3,254 (CUT)
SUB TOTAL	11,564	-	-	5,219	3,070	2,149(CUT)
PHASE 2 - CUT AND FILL QUANTITIES						
ROAD ALIGNMENT 01	1,200	1	1	130	59	71 (CUT)
ROAD ALIGNMENT 03	14,079	1	1	3,127	14,669	11,542 (FILL)
ROAD ALIGNMENT 04	10,072	1	1	12,055	316	11,739 (CUT)
PROPOSED SIGNALISED JUNCTION	2,839	1	1	437	176	261 (CUT)
TOPSOIL (300mm DEPTH)	28,190	-	-	8,457	-	8,457 (CUT)
TOTAL	28,190	-	-	24,206	15,220	8,986 (CUT)

Cut/Fill Table

Number	Range From [m]	Range To [m]	Colour	
1	-3.291	-2.000		CUT
2	-2.000	-1.000		CUT
3	-1.000	0.000		CUT
4	0.000	1.000		FILL
5	1.000	2.000		FILL
6	2.000	3.000		FILL
7	3.000	4.000		FILL
8	4.000	5.410		FILL

KEY

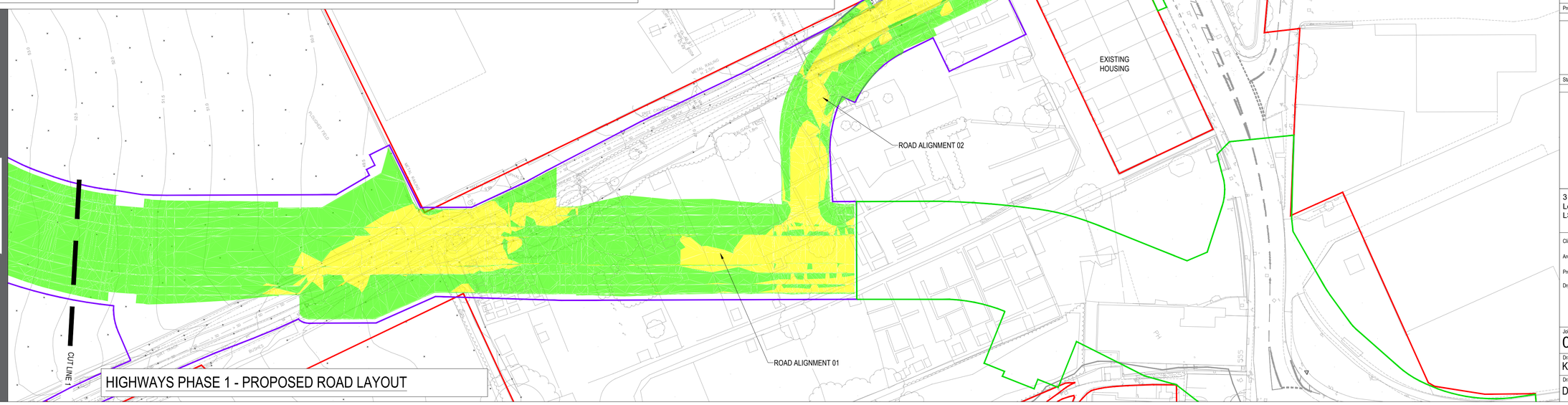
PHASE 1 WORKS BOUNDARY

PHASE 2 WORKS BOUNDARY

10 5 0 10 20 30 40

SCALE BEFORE REDUCTION

1 : 500



HIGHWAYS PHASE 1 - PROPOSED ROAD LAYOUT

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DO NOT SCALE THIS DRAWING.

HEALTH AND SAFETY INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING

CONSTRUCTION.

MAINTENANCE/CLEANING/OPERATION.

DECOMMISSIONING/DEMOLITION.

GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, DETAILS, SPECIFICATIONS AND REPORTS PREPARED AS PART OF THE PLANNING APPLICATION SUBMITTED IN SEPTEMBER 2021.
2. THE DRAWINGS IS ALSO TO BE READ IN CONJUNCTION WITH BARTON WILLMORE MASTERPLAN REF:32147_MR_M_DWG14A
3. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
4. THE TOPOGRAPHICAL DATA IS BASED ON INFORMATION PROVIDED BY THE COUNCIL. ORDNANCE SURVEY DATA HAS ALSO BEEN USED FOR ADDITIONAL WIDER BACKGROUND CONTEXT.
5. THE DATA USED IN THE PREPERATION OF THIS AND ALL OTHER BURO HAPPOLD DESIGNS AND DRAWINGS IS NOT WARRANTED. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO VERIFY ALL SURVEY INFORMATION PROVIDED AND REPORT ANY ANOMALIES TO BURO HAPPOLD.
6. THIS DRAWING HAS BEEN PREPARED FOR THE SOLE BENEFIT, USE AND INFORMATION OF THE CLIENT. THE LIABILITY OF BURO HAPPOLD IN RESPECT OF ANY INFORMATION CONTAINED IN THE DRAWING WILL NOT EXTEND TO ANY THIRD PARTIES. BUROHAPPOLD ACCEPTS NO LIABILITY FOR ANY USE/MISUSE OF THIS DRAWING OTHER THAN FOR THE PURPOSE FOR WHICH IT HAS BEEN PRODUCED.

DESIGN NOTES

THE HIGHWAYS DESIGN PHILOSOPHY HAS BEEN PREPARED IN COMPLIANCE WITH THE FOLLOWING DESIGN DOCUMENTS:

LINK ROAD DESIGN - KIRKLEE'S DESIGN GUIDANCE DOCUMENT DATED 2018 AND ASSOCIATED DOCUMENTS BROUGHT IN BY REFERENCE.

ROUNDABOUT DESIGN - DESIGN MANUAL FOR ROADS AND BRIDGES (CD SERIES)

EARTHWORKS NOTES

1. THE PROPOSED LEVELS SHOWN ON THE CONTOURS PLANS ARE AT PROPOSED FINISHED LEVELS.
2. THE PROPOSED EARTHWORKS DESIGN HAS BEEN BASED UPON TOPOGRAPHICAL INFORMATION PROVIDED AND DOES NOT ACCOUNT FOR ANY SUBSEQUENT GROUND ALTERATIONS SINCE THE SURVEYS HAVE BEEN CARRIED OUT.
3. THE EARTHWORKS VOLUMES ASSUME NO BULKING FACTORS THIS IS TO BE CONSIDERED BY CONTRACTOR. SIMILARLY THE LEVEL AND MANAGEMENT OF RE-USABLE MATERIAL IS TO BE EVALUATED BY THE CONTRACTOR TOO.
4. THE DEPTH BANDING ON THE ISOPACHYTE DRAWING SERIES IS BETWEEN PROPOSED FORMATION SURFACE AND SITE STRIP SURFACE. THE SITE STRIP HAS BEEN ASSUMED AS 300mm BELOW EXISTING GROUND LEVEL. THE FORMATION SURFACE HAS BEEN ASSUMED AS 450mm BELOW PROPOSED FINISHED LEVEL FOR CARRIAGEWAY AND 200mm FOR FOOTWAY/CYCLEWAY/VERGE AREAS..

LEVELS DESIGN

THE PROPOSED LEVELS AND DESIGN HAS BEEN BASED ON THE FOLLOWING:

- MINIMISING CHANGES TO EXISITNG CARRIAGEWAY LEVELS (OVERLAY/INLAY)
- MINIMISING CHANGES TO EXISITING LONGFALLS
- UTILISING CROSSFALL WHICH FACILATES DRAINAGE TO PROPOSED SWALES.
- GUIDANCE FROM THE KIRKLESS HIGHWAYS DESIGN GUIDE AND DMRB DEOCUMENTS.
- MAINTAINING LEVELS OR FACILITATING LEVELS AT CRITICAL POINTS INCLUDING BUT NOT LIMITED TO THE EXISTING GAS MAIN AND POTENTIAL FUTURE LINK TO NETWORK RAIL PROPOSED BRIDGE/ ROUNDABOUT. (BASED OFF INFORMATION RECEIVED FROM NETWORK RAIL. DRAWINGS REFEREED TO INCLUDE NR13 PLANNING SERIES CALDER RIVER BRIDGE MWN2-202)

Rev	Description	Date	Iss'd	Rev'd	App'd
P04	PLANNING ISSUE	10.11.22	GM	AH	AH
P03	PHASING BOUNDARIES ADDED	11.10.21	KH	AH	AH
P02	PLANNING ISSUE	24.09.21	KH	AH	AH
P01	PLANNING ISSUE	10.09.21	KH	AH	AH

PLANNING

Project Stage

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Status of Drawing

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Architect *BARTON WILLMORE*

Project **DEWSBURY RIVERSIDE**

Drg Title HIGHWAYS PHASE 1
EARTHWORKS - ISOPACH

Job No.	Scale@A1
0048206	1- 500

Drawn/Designed By.	Checked By.	Approved By.
KH	AH	AH

Drawing No. DR-BH-XX-XX-DR-C-00-2157 Revision P04

George Mavromatis \\srv-wedv04\project cad\048206 Dewsbury Riverside\03 Cities - Infra\01_Sheet\03_Highways\02_Detailed Design\DR-BH-XX-XX-DR-C-00-2157 17.0.0 (Phase 1 Cut and Fill.dwg