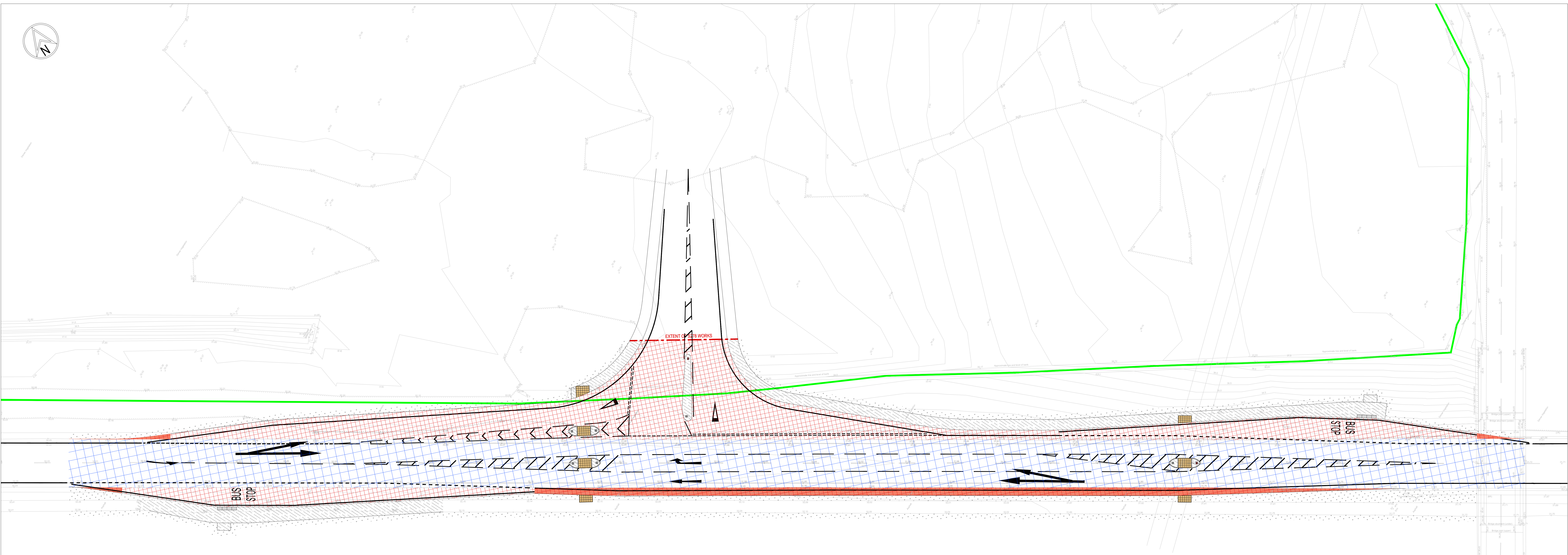




FULL DEPTH CARRIAGEWAY CONSTRUCTION -

50mm - SURFACE COURSE

HRA 30/14 F SURF 40/60 WITH APPLIED CHIPPINGS.

BUS LAYBY TO HAVE A 60PSV AND BE DIESEL RESISTANT

70mm - BINDER COURSE

20mm NOM SIZE DBM

200mm - BASE COURSE

40mm NOM SIZE DBM LAID IN TWO LAYERS

470mm - SUB-BASE

TYPE 1 SUB-BASE TO COMPLY WITH SPECIFICATION FOR HIGHWAY WORKS CLAUSE 803.

NOTE:

SUB-BASE AND CAPPING REQUIREMENT TO BE DETERMINED FOLLOWING ON SITE CBR TESTING AS AGREED BY BMBC

CARRIAGEWAY RESURFACING AND REGULATING -

MILLING OF 50mm EXISTING SURFACE COURSE AND REPLACE WITH:

50mm - SURFACE COURSE

HRA 30/14 F SURF 40/60 WITH APPLIED CHIPPINGS.

70mm - BINDER COURSE

20mm NOM SIZE DBM

DEPTH VARIES - BASE COURSE - REGULATION

0/32mm DBM 125 PEN BASE L/STONE TO BS 4987-1 CLAUSE 7.9.

450mm - ST4 CONCRETE

FULL DEPTH CARRIAGEWAY CONSTRUCTION IN WIDTHS OF LESS THAN 1m -

50mm - SURFACE COURSE

HRA 30/14 F SURF 40/60 WITH APPLIED CHIPPINGS.

70mm - BINDER COURSE

20mm NOM SIZE DBM

125mm - BASE COURSE

0/32mm DBM 125 PEN BASE L/STONE TO BS 4987-1 CLAUSE 7.9.

450mm - ST4 CONCRETE

FULL DEPTH FOOTWAY/ISLAND CONSTRUCTION

25mm - SURFACE COURSE

06mm DBM 190 PEN SURFACE COURSE L/STONE TO BS4978-1 CLAUSE 7.5.

55mm - BINDER COURSE

0/20mm DBM 190 PEN BINDER COURSE L/STONE TO BS4987-1 CLAUSE 6.5.

150mm - SUB-BASE

TYPE 1 SUB-BASE TO COMPLY WITH SPECIFICATION FOR HIGHWAY WORKS CLAUSE 803.

GRASS VERGE

150mm TOP SOIL AND SEED

PAVING UNITS

450x450x60mm DIMPLE CONCRETE PAVING SLABS (BUFF)

BEEDING:

50mm (COMPACTED) SAND AS SPECIFIED IN BS 6717 P1.3

SUB BASE

150mm TYPE 1 TO SHW 803

BUS STOP PAVING UNITS

900x600x50mm BARFACED CONCRETE PAVING SLABS (GREY)

BEEDING:

50mm (COMPACTED) SAND AS SPECIFIED IN BS 6717 P1.3

SUB BASE

150mm TYPE 1 TO SHW 803

DESIGN NOTES

1. REINSTATEMENTS NARROWER THAN 1m SHALL BE BACKFILLED WITH CONCRETE.

2. ALL ASPHALT LAYERS SHALL BE BONDED WITH A BOND COAT.

3. ALL SURFACES SHALL BE MECHANICALLY SWEEP TO ENSURE THEY ARE FREE FROM LOOSE MATERIAL.

4. ALL JOINTS IN EXISTING ASPHALT SHALL BE SAW CUT.

GENERAL NOTES

1. THE TOPOGRAPHICAL SURVEY IS BASED ON INFORMATION PROVIDED FROM FIRST POINT SURVEY DRAWING IN 2010. THE INFORMATION USED IS PRELIMINARY TO THE FINAL ALL TOP COVERAGE AND VERIFY ALL SURVEY INFORMATION PROVIDED AND REPORT ANY DISCREPANCIES TO THE CLIENT.

2. ALL DESIGN AND WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING:

• DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)

• SPECIFICATION FOR HIGHWAY WORKS (SPEL)

• BARNSLEY COUNCIL DESIGN GUIDE AND SPECIFICATION

3. UNCONFINED EXISTING TRENCHES AND ASSURANCE TO BE A MINIMUM OF 10%.

4. EXISTING FENCES, VERGES, HEDGEROWS, FOOTWAYS, CORBLES, FOUNDATIONS, WALLS, STREET LIGHTS, CULVERTS AND OTHER PHYSICAL FEATURES TO BE REMOVED WITHIN THE AREA OF WORKS.

5. ALL FENCING SHALL BE TAKEN UP AND REMOVED FROM SITE AND SHALL BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS CLAUSE 201.8 AND SUITABLY REINFORCED.

6. BOUNDARY FENCING SHALL BE PROVIDED SUBJECT TO AGREEMENT WITH BARNSLEY COUNCIL AND LANDSCAPING REQUIREMENTS.

7. EXISTING FENCES AND BOUNDARY FENCING SHALL BE REINFORCED TO SUIT THE DESIGN AND WORKS TO BE UNDERTAKEN. THE REINFORCEMENT SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE SUBJECT TO THE DESIGN AND WORKS TO BE UNDERTAKEN. THE REINFORCEMENT SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE SUBJECT TO THE DESIGN AND WORKS TO BE UNDERTAKEN.

8. ALL PROPOSED ROAD MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING:

• TRAFFIC SIGN REGULATIONS AND SIGNING CODE (TSSRD)

• TRAFFIC SIGN MANUALS CHAPTER 5 - ROAD MARKINGS

9. ALL WORKS TO COMPLY WITH CURRENT EDITION OF THE FOLLOWING DOCUMENTS:

• DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)

• SPECIFICATION FOR HIGHWAY WORKS (SPEL)

• LOCAL AUTHORITY DESIGN GUIDE AND SPECIFICATION

10. KERN RADIUS WHERE LESS THAN 12m SHALL BE TRUE RADIUS KERBS

GENERAL SAFETY NOTES:

1. WHERE THE BASE ROAD BASE HAS BEEN USED AS A TEMPORARY RUNNING SURFACE DURING THE CONTRACT IT SHALL BE THOROUGHLY CLEANED AND POWER WASHED AS NECESSARY AFTER DRYING AND IMMEDIATELY BEFORE THE BINDER COURSE IS LAID A THICK COAT OF BITUMEN EMULSION CLASS A4-40 OR K4-40 TO BEGINS SHALL BE APPLIED AT A RATE OF 0.25-0.30 LITRES/SQ METER.

2. ALL ROAD KERBS WITH A RADIUS OF 15m OR LESS SHALL BE FORMED WITH PROPRIETARY RADIUS KERBS.

HEALTH & SAFETY:

1. CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.

2. ROADS & DRAINAGE

3. CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE.

4. THE TIME THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.

5. CONNECTIONS TO EXISTING SERVICES TO BE MADE BY APPROVED CONTRACTOR ONLY.

6. CONTRACTOR TO MARK OPERATING RANGE OF ASSOCIATED DAMAGES TO HEALTH SUCH AS EXCAVATIONS (WELL DISEASE) AND RECOMMENDED PRECAUTIONS. ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.

7. UNFINISHED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIER.

PIERS & CABLES

1. CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.

2. SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.

EXCAVATIONS

1. CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.

2. CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.

3. CONTRACTOR TO REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.

DESIGN NOTES

1. PROPOSED LEVELS HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY BY MIDLAND SURVEYING & ENGINEERING DRAWING DEP. H00450400-01 (DATED 21.07.2017).

2. ALL WORKS TO COMPLY WITH CURRENT EDITION OF THE FOLLOWING DOCUMENTS:

• DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)

• SPECIFICATION FOR HIGHWAY WORKS (SPEL)

• LOCAL AUTHORITY DESIGN GUIDE AND SPECIFICATION

3. PRIOR TO COMMENCING WORKS THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE AS NECESSARY ANY EXISTING UNDERGROUND EQUIPMENT WITHIN THE WORK ACCESS AND DISCUSS REQUIREMENTS FOR LOWERING/VERSION AND PROTECTION WITH THE RELEVANT UNDERTAKER.

4. ALL WORKS WITHIN THE PUBLIC HIGHWAY TO MEET LOCAL AUTHORITY REQUIREMENTS. CONTRACTOR TO APPLY FOR ROAD OPENING NOTICES ETC AS REQUIRED.

5. CBR VALUE NOT AVAILABLE. ROAD CONSTRUCTION DETAIL SUBJECT TO CONFIRMATION OF CBR VALUES. CONTRACTOR TO AVOID OR LAB TESTS TO BE UNDERTAKEN IN AGREEMENT WITH LOCAL AUTHORITY HIGHWAY ENGINEER PRIOR TO WORKS COMMENCING.

6. SLOPES GREATER THAN 1 IN 4 MAY REQUIRE STABILISATION. GEOTECHNICAL ENGINEER TO BE CONTACTED TO CONFIRM REQUIREMENTS.

SUBJECT TO LOCAL HIGHWAY AUTHORITY APPROVAL

13.01.2022 BUS TOP ARRANGEMENT AMENDED

18.11.2021 UPDATES TO ACCORD WITH DESIGN PARAMETER REVIEW

07.11.2021 FIRST ISSUE

Date

Revised

Drawn

Checked

Rev

Drawn

Revised

Drawn

Checked

Rev

PRELIMINARY

NORTH EAST

0191 256932

YORKSHIRE

0113 5320360

Client

HARWORTH

Project

HOUGHTON MAIN BARNESLEY

Title

SECTION 278 WORKS TO PARK SPRING ROAD SURFACING ARRANGEMENT

DO NOT SCALE

Scale @ A3: 1:200

Drawn

AD

Checked

AMF

Date

07.11.2021

Job No

Y21011

Drawn

D1005

Rev

3

RWO

CONSULTING ENGINEERS

WWW.RWODGROUP.CO.UK

Client

HARWORTH

Project

HOUGHTON MAIN BARNESLEY

Title

SECTION 278 WORKS TO PARK SPRING ROAD SURFACING ARRANGEMENT

DO NOT SCALE

Scale @ A3: 1:200

Drawn

AD

Checked

AMF

Date

07.11.2021

Job No

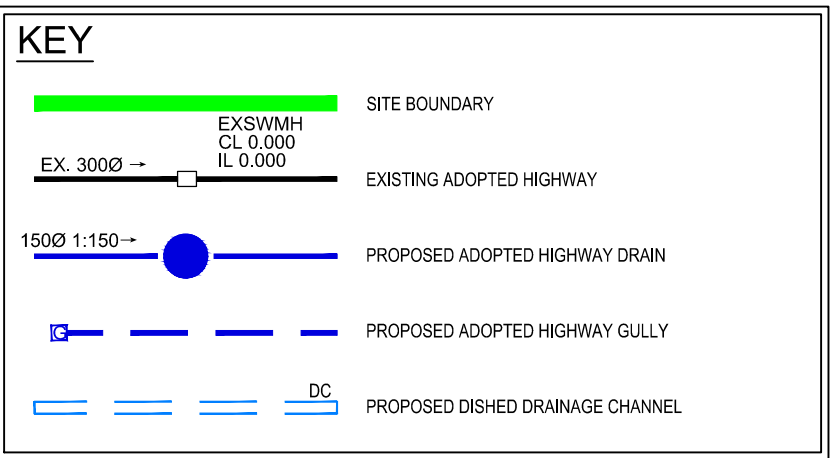
Y21011

Drawn

D1005

Rev

3



1. WHERE THE BASE (ROAD BASE) HAS BEEN USED AS A TEMPORARY RUNNING SURFACE DURING THE CONTRACT IT SHALL BE THOROUGHLY CLEANED AND POWER WASHED AS NECESSARY. AFTER DRYING AND IMMEDIATELY BEFORE THE BINDER COURSE IS LAID A THICK COAT OF BITUMEN EMULSION CLASS A1-40 OR K1-40 TO BS404 SHALL BE APPLIED AT A RATE OF 0.35-0.55 LITRES/SQ. METER.
2. ALL RADIUS KERBS WITH A RADIUS OF 12m OR LESS SHALL BE FORMED WITH PROPRIETARY RADIUS KERBS.

1. CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.

2. CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE.
3. THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
4. CONNECTIONS TO EXISTING SERVICES TO BE MADE BY APPROVED CONTRACTOR ONLY.
5. CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS LEPTOSPIROSIS (WELLS DISEASE) AND RECOMMENDED PRECAUTIONS. ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
6. UNFINISHED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIER.

7. CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
8. SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.

9. CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
10. CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
11. CONTRACTOR TO REFER TO GROUND INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.

2. PROPOSED WORKS HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY BY MUKUND & SONS, CHANDIGARH, 1982 AND THE EXISTING ROAD CROSS-SECTION DATA DATED 1982.
3. ALL WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
 - a. DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)
 - b. SPECIFICATION FOR HIGHWAY WORKS (SHS)
 - c. LOCAL AUTHORITY DESIGN CODE AND REGULATION
4. PRIOR TO COMMENCING WORKS THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE AS NECESSARY ANY STATUTORY UNDERTAKINGS EQUIPMENT WITHIN THE NEW ACCESS AND DISCUSS REQUIREMENTS FOR LOWERING/REMOVAL AND PROTECTION WITH THE RELEVANT UNDERTAKER.
5. ALL WORKS WITHIN THE PUBLIC HIGHWAY TO MEET LOCAL AUTHORITY REQUIREMENTS. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS FROM THE LOCAL AUTHORITY.
6. ORS VALUE NOT AVAILABLE. RAIL CONSTRUCTION DATA SUBJECT TO CONFIRMATION OF ORS VALUES. CONTRACTOR TO ALLOW FOR LAB TESTS TO BE UNDERTAKEN IN AGREEMENT WITH LOCAL HIGHWAY ENGINEER PRIOR TO WORKS COMMENCING.
7. SLOPES GREATER THAN 1 IN 4 MAY REQUIRE STABILISATION. GEOTECHNICAL ENGINEER TO BE CONSULTED FOR STABILISATION OF SLOPES.

**SUBJECT TO LOCAL HIGHWAY
AUTHORITY APPROVAL**



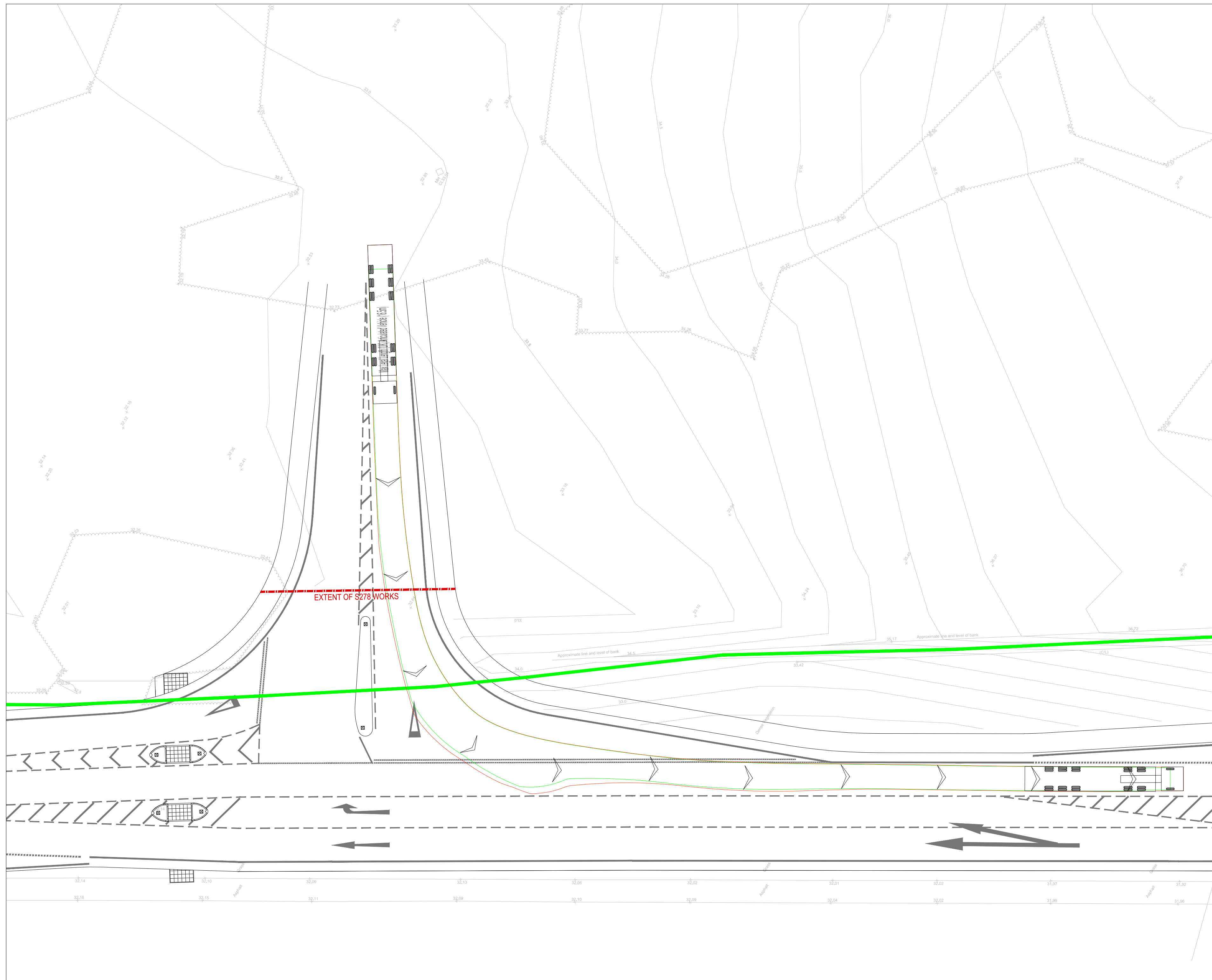
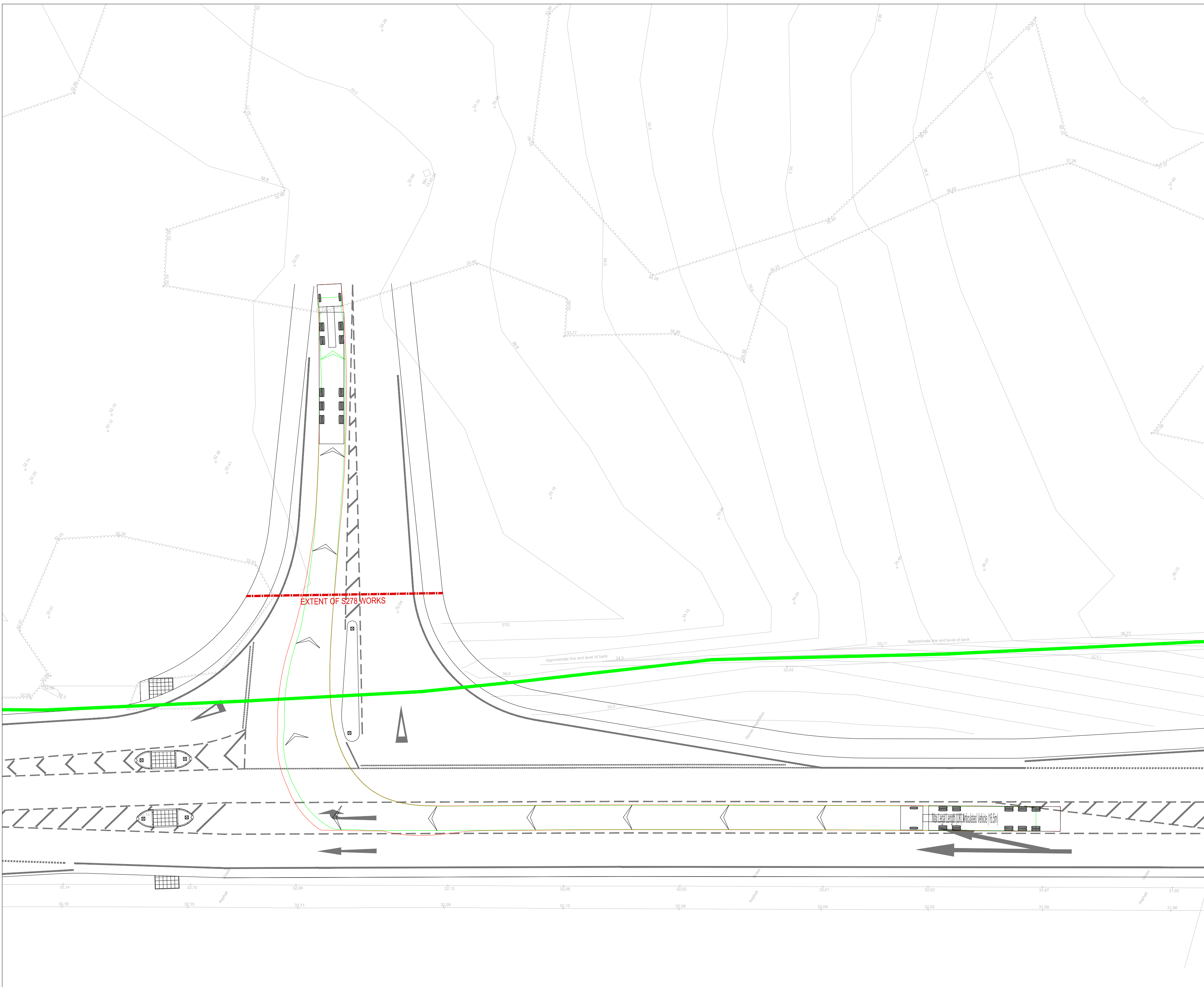
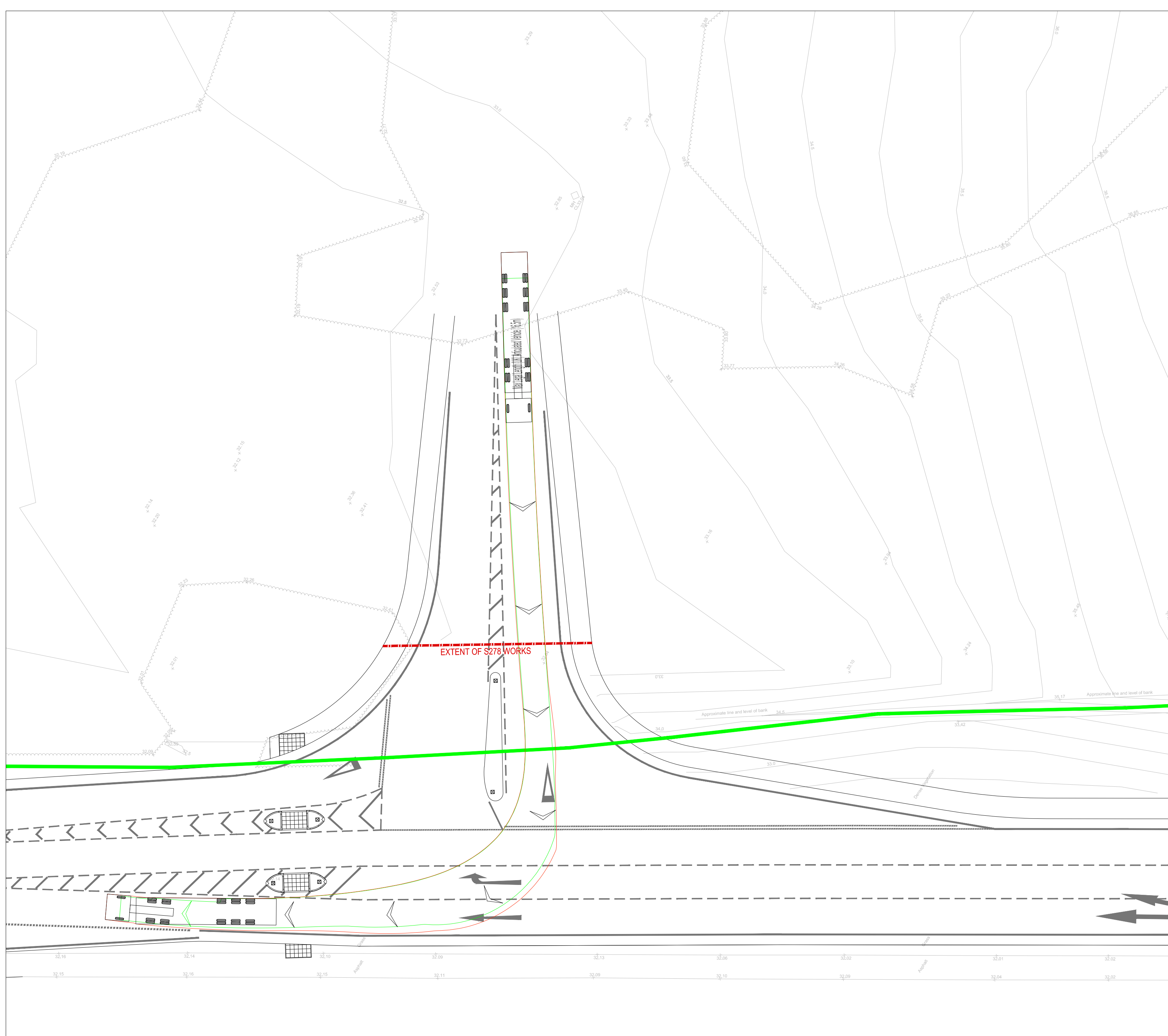
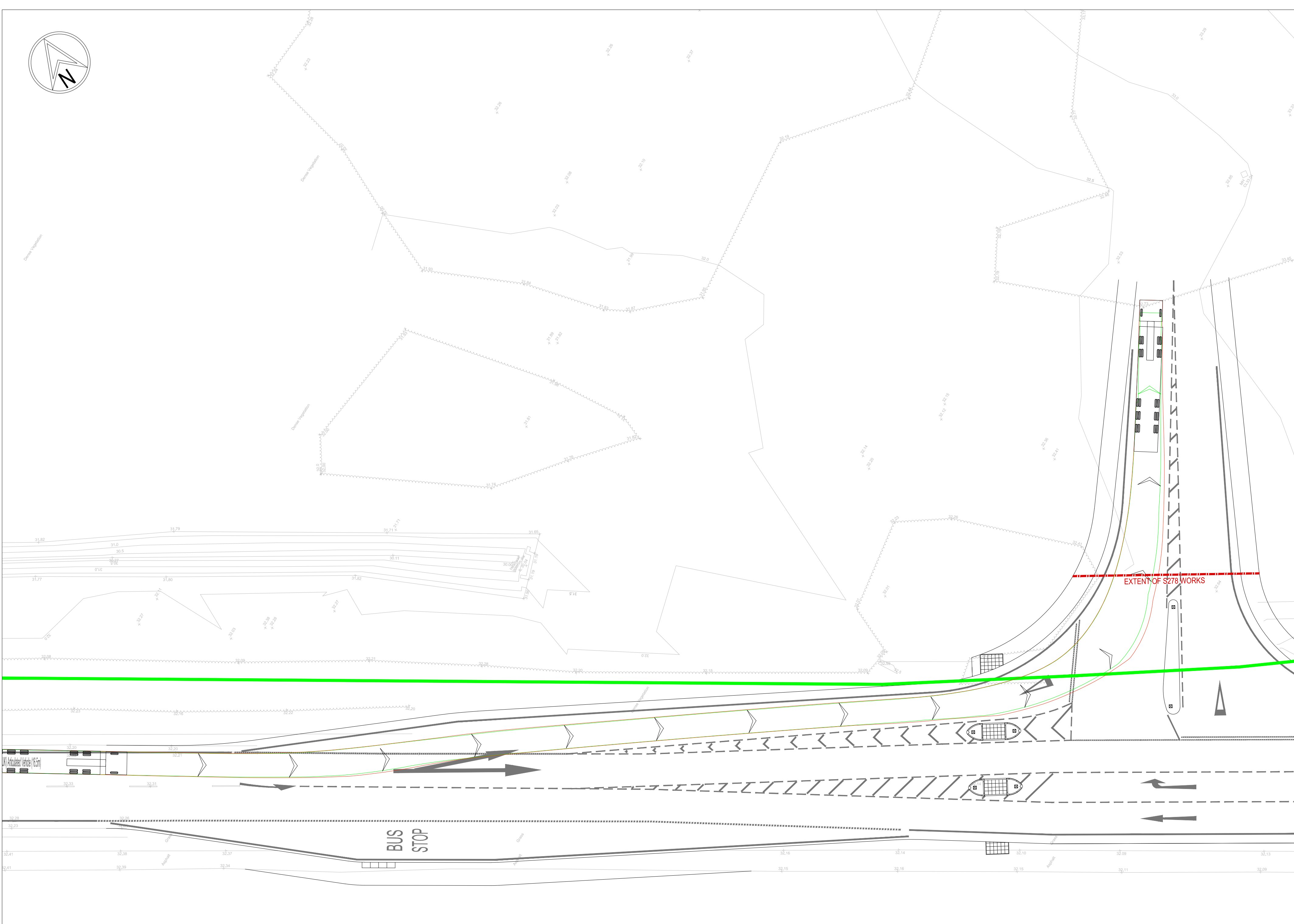
CONSULTING ENGINEERS
WWW.RW.GROUP
INFO@RW.GROUP

HARWORTH

HOUGHTON MAIN
BARNLEY

Title SECTION 278 HIGHWAY
DRAINAGE LAYOUT

DO NOT SCALE	Scale @ A0: 1:250	Drawn RPB	Checked AMF	Date 28.03.2022
Job No Y21011		Dwg No D1008		Rev 1



DESIGN NOTES:

1. ALL PROJECTS HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY BY MIDLAND SURVEYING & ENGINEERING DRAWING REF: HWAGS4008A-1 (DATE: 27.03.2021)

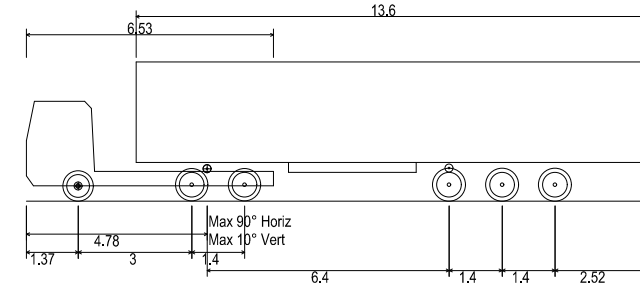
2. ALL WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
a. DESIGN MANUAL, FOR ROADS AND BRIDGES (DMRB)
b. SPECIFICATION FOR HIGHWAY WORKS (SPEL)
c. LOCAL AUTHORITY DESIGN AND SPECIFICATION

3. PRIOR TO COMMENCING WORKS THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE AS NECESSARY ANY STATUTORY UNDERGROUND EQUIPMENT WITHIN THE NEW ACCESS AND DISCUSS RELEVANT REQUIREMENTS WITH THE LOCAL AUTHORITY WITHIN THE 14 DAY PERIOD PRIOR TO COMMENCING WORKS.

4. ALL WORKS WITHIN THE PUBLIC HIGHWAY TO MEET LOCAL AUTHORITY REQUIREMENTS. CONTRACTOR TO APPLY FOR ROAD OPENING NOTICES ETC AS REQUIRED.

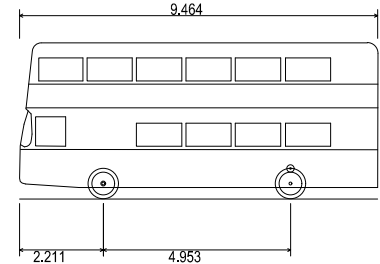
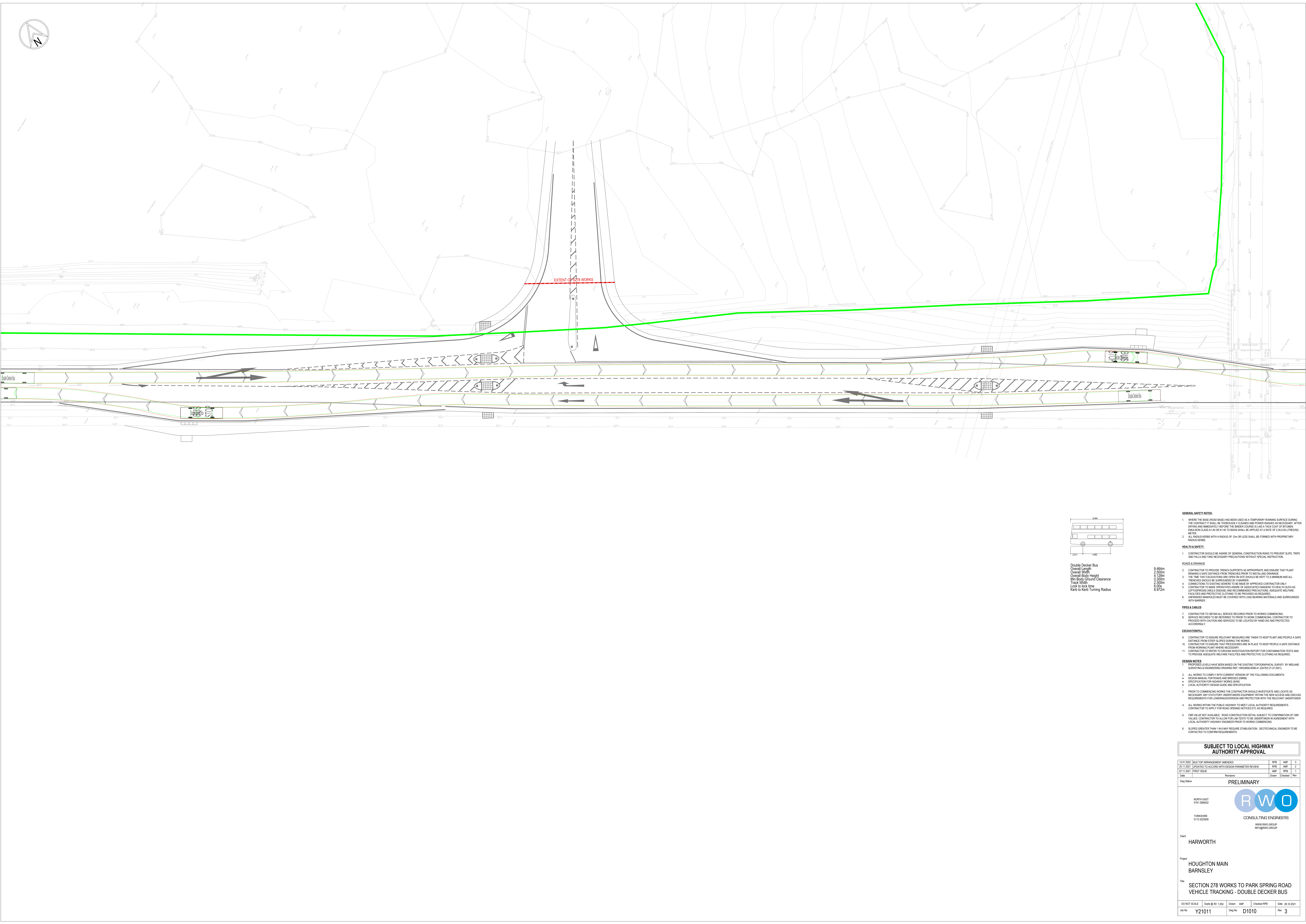
5. GSR VALUE NOT AVAILABLE. ROAD CONSTRUCTION DETAIL SUBJECT TO CONFIRMATION OF GSR VALUES. CONTRACTOR TO ALLOW FOR LAB TESTS TO DETERMINE IN AGREEMENT WITH LOCAL AUTHORITY WITHIN 14 DAY PERIOD PRIOR TO WORKS COMMENCING.

6. SLOPE GREATER THAN 1:1 MAY REQUIRE STABILISATION. GEOTECHNICAL ENGINEER TO BE CONSULTED FOR CONFIRMATION REQUIRED.



Max Legal Length (UK) Articulated Vehicle (16.5m)	16.5m
Overall Length	2.55m
Overall Width	3.68m
Overall Body Height	0.41m
Min Body Ground Clearance	2.50m
Max Track Width	6.00m
Lock to lock time	6.53s
Kerb to Kerb Turning Radius	

SUBJECT TO LOCAL HIGHWAY AUTHORITY APPROVAL				
5/11/2021	UPDATED TO ACCORD WITH DESIGN PARAMETER REVIEW	RPS	AMF	2
27/11/2021	FIRST ISSUE	AMF	RPS	1
Drawn Checked Drawn Checked R				
Drawn _____ [Signature] Checked _____ [Signature]				
PRELIMINARY				
North East 0191 2056632 Yorkshire 0113 520280  CONSULTING ENGINEERS WWW.RWOWORKS.CO.UK INFO@RWO GROUP				
Client HARWORTH Project HAUGHTON MAIN BOURNLEY				
Title SECTION 272 WORKS TO PARK SPRING ROAD VEHICLE TRACKING - 16.5M ARTICULATED				
DO NOT SCALE Y21011 Scale (B A0 1:250) D1009 Drawn _____ [Signature] Checked _____ [Signature] Date 07/11/2021				



Double Decker Bus
Overall Length 9.46m
Overall Width 2.50m
Overall Body Height 4.12m
Min Body Ground Clearance 0.30m
Track Width 2.30m
Lock to lock time 6.00s
Kerb to Kerb Turning Radius 8.97m

GENERAL SAFETY NOTES:

- WHERE THE BASE ROAD BASE HAS BEEN USED AS A TEMPORARY RUNNING SURFACE DURING THE CONTRACT IT SHALL BE THOROUGHLY CLEANED AND POWER WASHED AS NECESSARY AFTER DRYING AND IMMEDIATELY BEFORE THE BINDER COURSE IS Laid A TACK COAT OF BITUMEN EMULSION CLASS A1-40 OR K1-40 TO BS584 SHALL BE APPLIED AT A RATE OF 0.35-0.50 LITRES/SQ METRE.
- ALL RADII KERBS WITH A RADIUS OF 12m OR LESS SHALL BE FORMED WITH PROPRIETARY RADIUS KERBS.

HEALTH & SAFETY:

- CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.

ROADS & DRAINAGE

- CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE.
- THE TIME THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
- CONTRACTOR TO ENSURE TRENCHES TO BE MADE BY APPROVED CONTRACTOR ONLY.
- CONTRACTOR TO MAINTAIN OPERATING AREAS OF ASSOCIATED DANGERS TO HEALTH SUCH AS LIFT OFF RIGS, HILLS, TRENCHES AND UNREMARKED PRECAUTIONS. ADEQUATE WEAPONS, FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
- IMPERVIOUS MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIER.

Pipes & Cables

- CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
- SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.

EXCAVATION/FILL

- CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
- CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
- CONTRACTOR TO REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WEAPONS, FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.

DESIGN NOTES

- PROPOSED LEVELS HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY BY MICLAND SURVEYS & ENGINEERING DRAWING AND 'HARRINGTON' (DATED 11.07.2017).
- ALL WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
 - DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)
 - SPECIFICATION FOR HIGHWAY WORKS (SHW)
 - LOCAL AUTHORITY DESIGN GUIDE AND SPECIFICATION
- PRIOR TO COMMENCING WORKS THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE AS NECESSARY ANY EXISTING UNDERGROUND EQUIPMENT WITHIN THE WORK ACCESS AND DISCUSS REQUIREMENTS FOR LOWERING/VERSION AND PROTECTION WITH THE RELEVANT UNDERTAKER.
- ALL WORKS WITHIN THE PUBLIC HIGHWAY TO MEET LOCAL AUTHORITY REQUIREMENTS. CONTRACTOR TO APPLY FOR ROAD OPENING NOTICES ETC AS REQUIRED.
- OSR VALUE NOT AVAILABLE. ROAD CONSTRUCTION DETAIL SUBJECT TO CONFIRMATION OF OSR VALUES. CONTRACTOR TO ALLOW FOR LAB TESTS TO BE UNDERTAKEN IN AGREEMENT WITH LOCAL AUTHORITY HIGHWAY ENGINEER PRIOR TO WORKS COMMENCING.
- SLOPES GREATER THAN 1 IN 4 MAY REQUIRE STABILISATION. GEOTECHNICAL ENGINEER TO BE CONTACTED TO CONFIRM REQUIREMENTS.

SUBJECT TO LOCAL HIGHWAY AUTHORITY APPROVAL

13.01.2022	BUS TOP ARRANGEMENT AMENDED	RPS	AMF	3
18.11.2021	UPDATED TO ACCORD WITH DESIGN PARAMETER REVIEW	RPS	AMF	2
07.11.2021	FIRST ISSUE	AMF	RPS	1

Date	Revisions	Drawn	Checked	Rev
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PRELIMINARY

NORTH EAST 0191 256662		RWO CONSULTING ENGINEERS WWW.RWO.GROUP RWO GROUP		
Client HARWORTH				
Project HOUGHTON MAIN BARNESLEY				
Title SECTION 278 WORKS TO PARK SPRING ROAD VEHICLE TRACKING - DOUBLE DECKER BUS				
DO NOT SCALE	Scale @ A3: 1:200	Drawn AMF	Checked RPS	Date 28.10.2021
Job No Y21011	Drawn D1010	Rev 3		