

Legend

- Watercourse

Maximum Flood Depths (m)

- 0 - 0.05
- 0.02 - 0.1
- 0.1 - 0.2
- 0.2 - 0.3
- 0.3 - 0.4
- 0.4 - 0.5
- 0.5 - 1.0
- > 1.0

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Revision Details	By	Date	Suffix

Drawing Status: **FINAL**

Job Title
Llanmaes Flood Alleviation Scheme

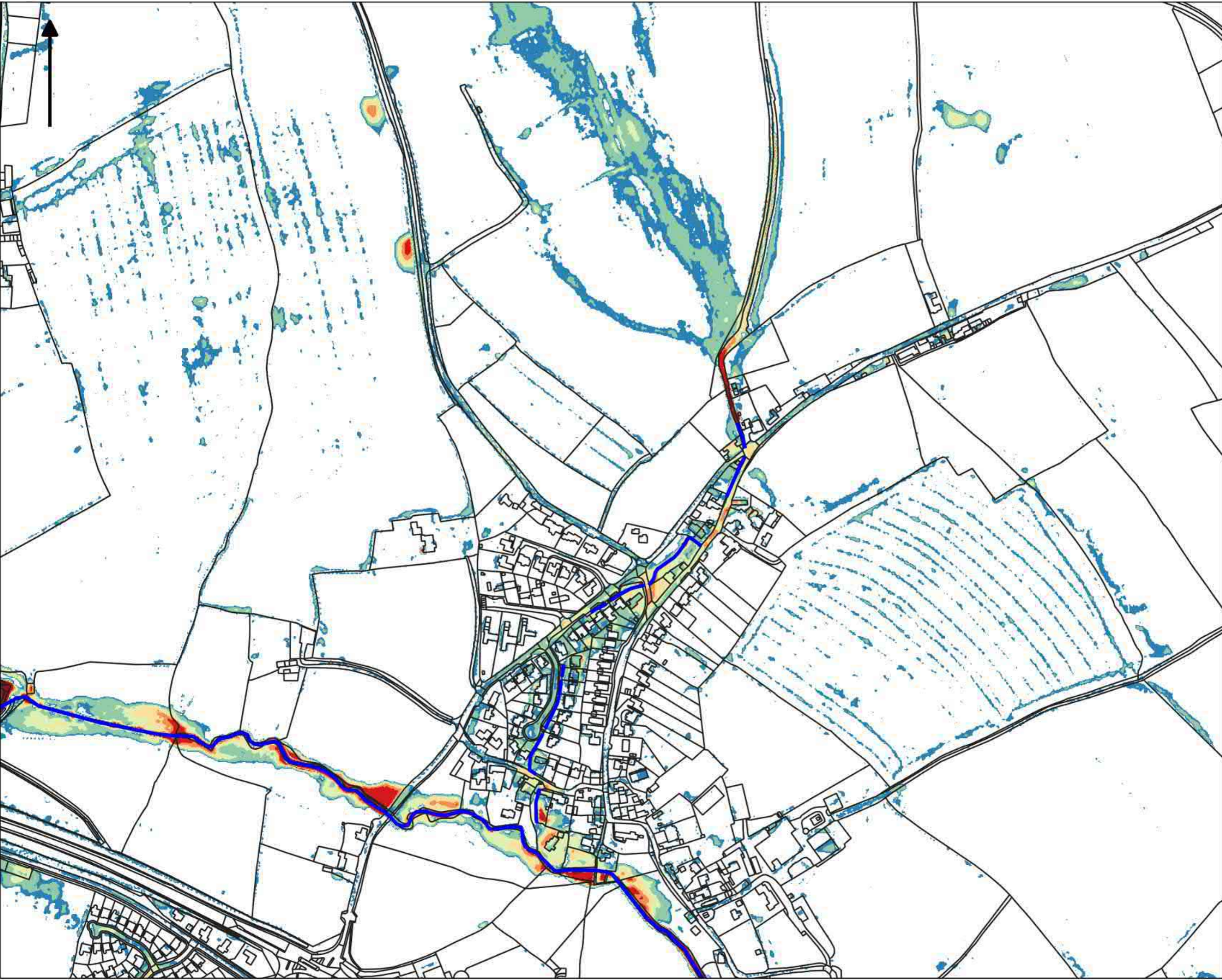
Drawing Title
**Maximum Flood Depth
 Baseline
 1% AEP**

Scale at A3: **1:4000**

Drawn: RC	Approved: RS
Stage 1 Check: RM	Stage 2 Check: AT
Originalled: AT	Date: 04/21



Drawing Number: **B5** Rev:



Legend

- Watercourse

Maximum Flood Depths (m)

- 0 - 0.05
- 0.02 - 0.1
- 0.1 - 0.2
- 0.2 - 0.3
- 0.3 - 0.4
- 0.4 - 0.5
- 0.5 - 1.0
- > 1.0

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Revision Details	By	Date	Scale

Drawing Status: **FINAL**

Job Title
Llanmaes Flood Alleviation Scheme

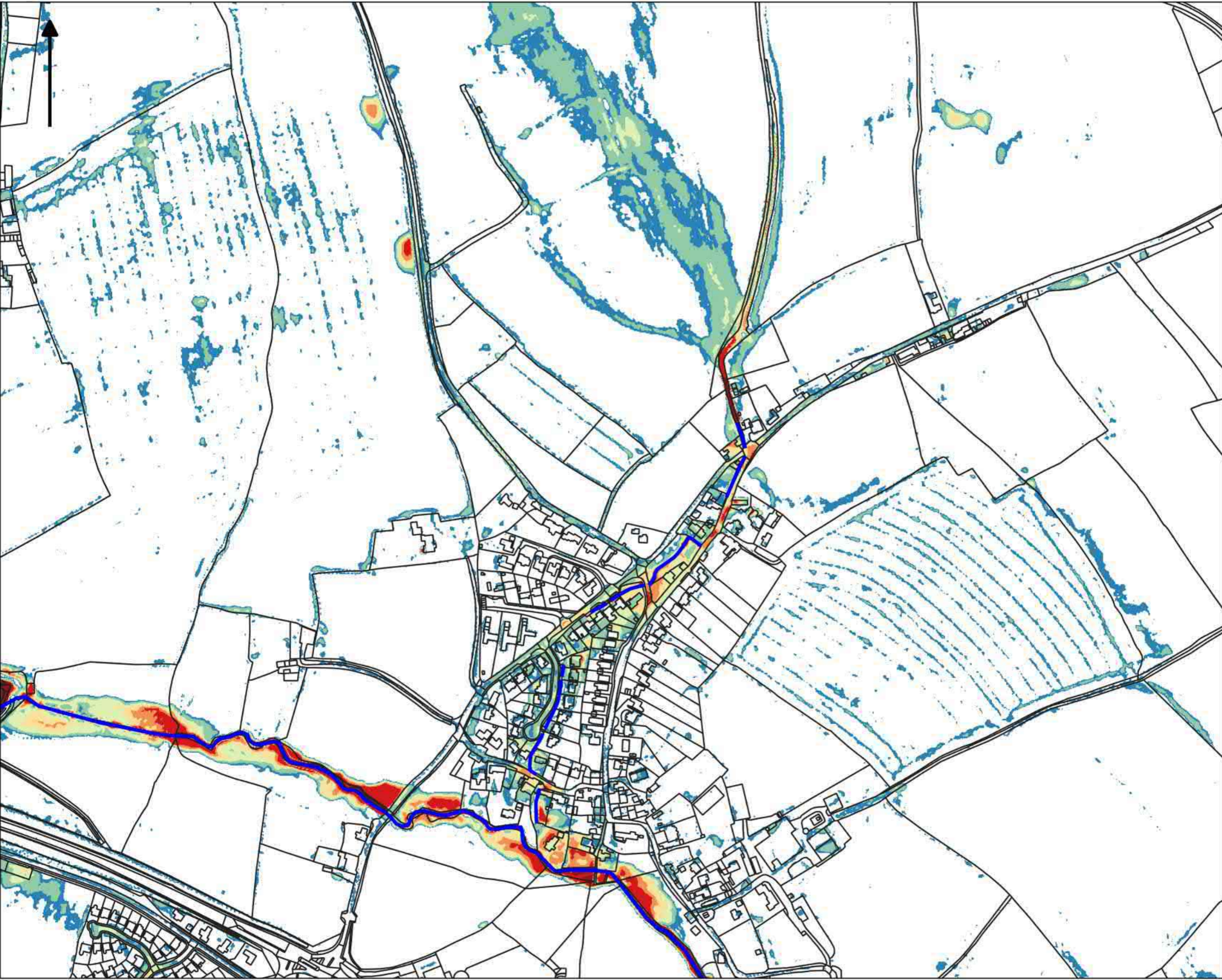
Drawing Title
**Maximum Flood Depth Baseline
 1% AEP + 30% Climate Change**

Scale at A3: **1:4000**

Drawn: RC	Approved: RS
Stage 1 Check: RM	Stage 2 Check: AT
Original Date: 04/21	Date: 04/21



Drawing Number: **B6** Rev:



Legend

- Watercourse

Maximum Flood Depths (m)

- 0 - 0.05
- 0.02 - 0.1
- 0.1 - 0.2
- 0.2 - 0.3
- 0.3 - 0.4
- 0.4 - 0.5
- 0.5 - 1.0
- > 1.0

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Revision Details	By	Date	Scale

Drawing Status: **FINAL**

Job Title
Llanmaes Flood Alleviation Scheme

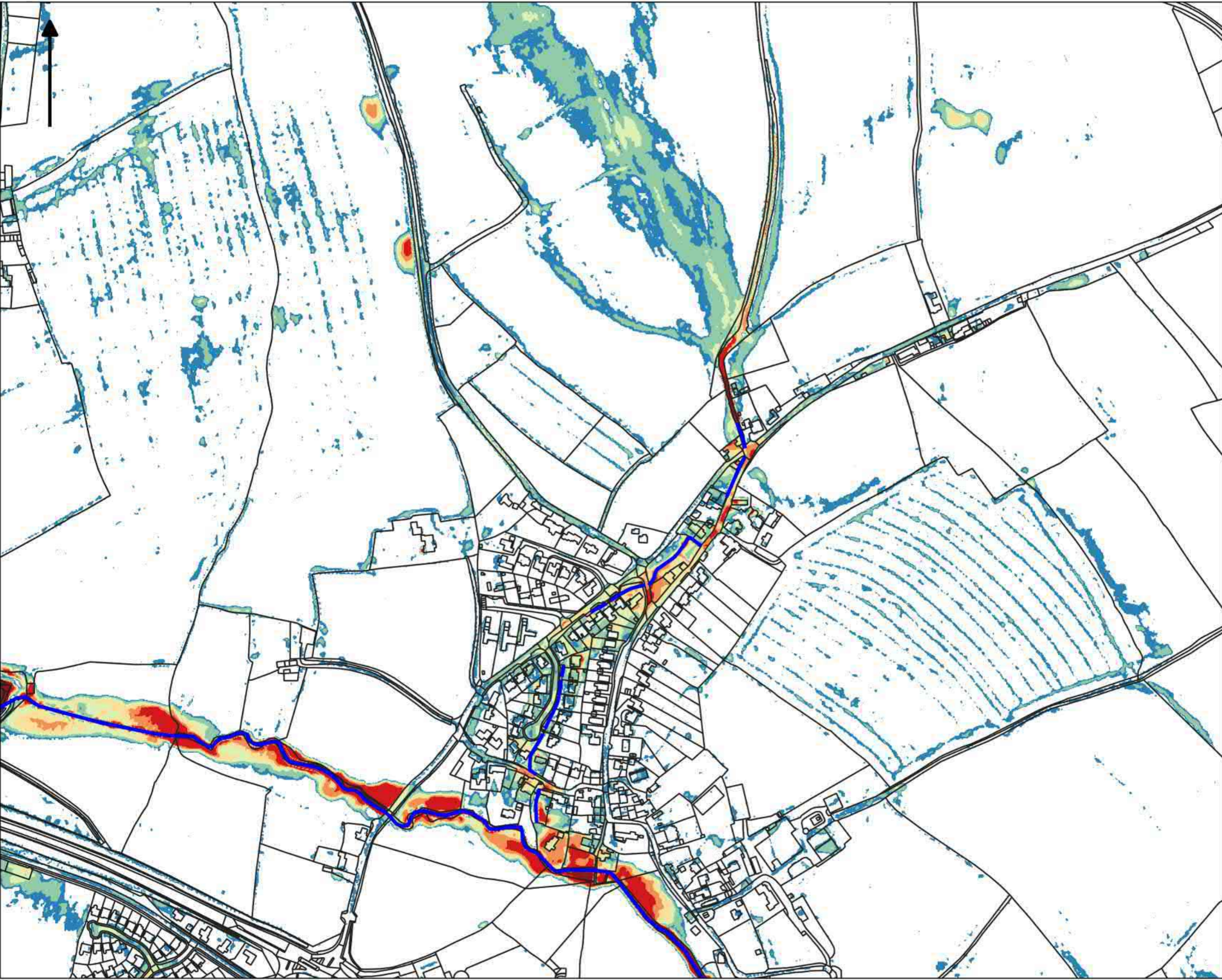
Drawing Title
**Maximum Flood Depth Baseline
 1% AEP + 75% Climate Change**

Scale at A3: **1:4000**

Drawn: RC	Approved: RS
Stage 1 Check: RM	Stage 2 Check: AT
Original Date: 04/21	Date: 04/21



Drawing Number: **B7** Rev



Legend

- Watercourse

Maximum Flood Depths (m)

- 0 - 0.05
- 0.02 - 0.1
- 0.1 - 0.2
- 0.2 - 0.3
- 0.3 - 0.4
- 0.4 - 0.5
- 0.5 - 1.0
- > 1.0

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Revision Details	By	Date	Suffix

Drawing Status: **FINAL**

Job Title
Llanmaes Flood Alleviation Scheme

Drawing Title
**Maximum Flood Depth
 Baseline
 0.1% AEP**

Scale at A3: **1:4000**

Drawn: RC	Approved: RS
Stage 1 Check: RM	Stage 2 Check: AT
Originalled: AT	Date: 04/21

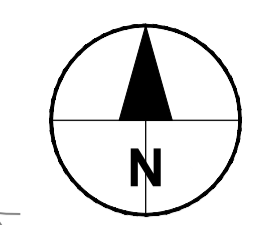


Drawing Number: **B8** Rev:

Appendix C –Proposed Option Design

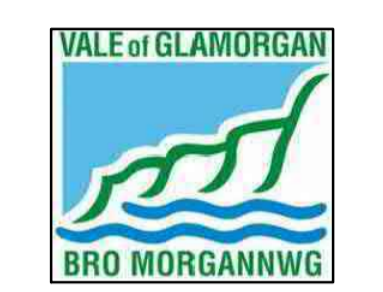
Project Management Initials: Designer: RD Checked: ATZ Approved: RM

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PROJECT
LLANMAES VILLAGE
FLOOD ALLEVIATION
SCHEME

CLIENT
VALE OF GLAMORGAN COUNCIL



CONSULTANT
AECOM
1 CALLAGHAN SQUARE
CARDIFF
CF10 5BT
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FAX: (029) 20674699

- NOTES
1. TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION / INFORMATION.
 2. ALL LEVELS RELATE TO ORDNANCE DATUM.
 3. DO NOT SCALE FROM THIS DRAWING. USE PRINTED DIMENSIONS ONLY.

LEGEND

01	SHEET LAYOUT AND NUMBER
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STATUS

DETAILED DESIGN

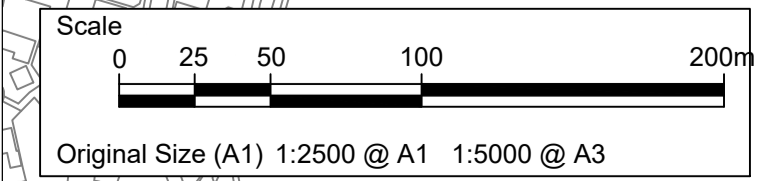
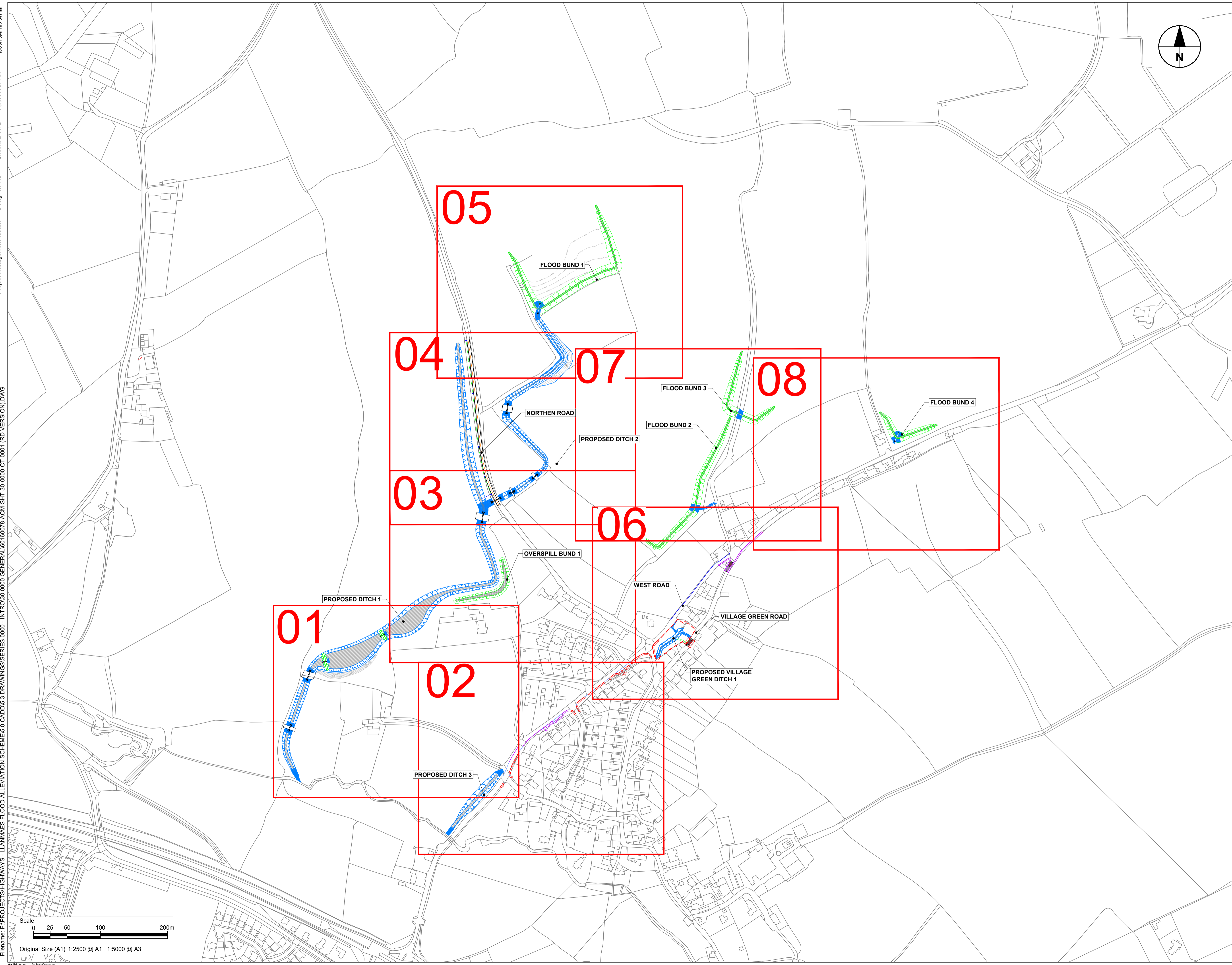
ISSUE/REVISION

IR	DATE	DESCRIPTION
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A	16/12/2020	DRAFT DETAILED DESIGN

PROJECT NUMBER
60160078

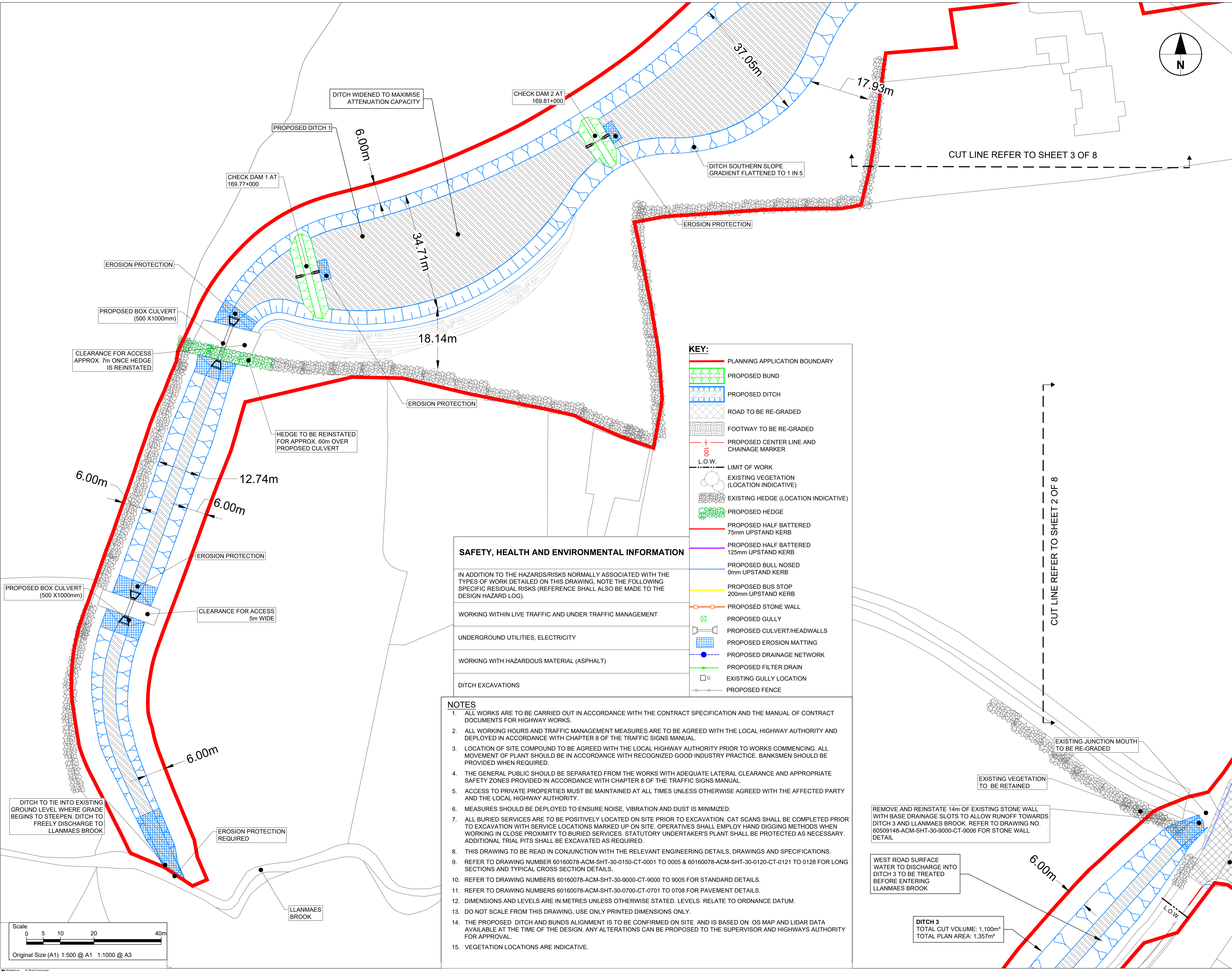
SHEET TITLE
LLANMAES VILLAGE
FLOOD ALLEVIATION SCHEME
LOCATION PLAN
SCALE: 1:2500

SHEET NUMBER
60160078-ACM-SHT-30-0000-CT-0001





Approved: ATZ
Checked: MH
Designer: RD
Project Management Initials:
Last saved by: JONATHAN BLISSETT (2021-03-02)
Filename: F:\PROJECTS\HIGHWAYS - LLANMAES FLOOD ALLEVIATION SCHEMES\0 CADDS\3 DRAWINGS\SERIES 0100 - PRELIM\30 0100 GENERAL ARRANGEMENT\60160078-ACM-SHT-30-0100-CT-01-01-01-08.DWG



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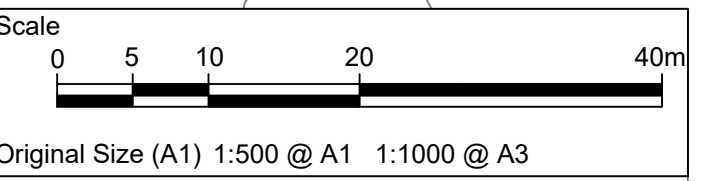
- PLANNING APPLICATION BOUNDARY
- PROPOSED BUND
- PROPOSED DITCH
- ROAD TO BE RE-GRADED
- FOOTWAY TO BE RE-GRADED
- PROPOSED CENTER LINE AND CHAINAGE MARKER
- L.O.W. LIMIT OF WORK
- EXISTING VEGETATION (LOCATION INDICATIVE)
- EXISTING HEDGE (LOCATION INDICATIVE)
- PROPOSED HEDGE
- PROPOSED HALF BATTERED 75mm UPSTAND KERB
- PROPOSED HALF BATTERED 125mm UPSTAND KERB
- PROPOSED BULL NOSED 0mm UPSTAND KERB
- PROPOSED BUS STOP 200mm UPSTAND KERB
- PROPOSED STONE WALL
- PROPOSED GULLY
- PROPOSED CULVERT/HEADWALLS
- PROPOSED EROSION MATTING
- PROPOSED DRAINAGE NETWORK
- PROPOSED FILTER DRAIN
- EXISTING GULLY LOCATION
- PROPOSED FENCE

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

- IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SPECIFIC RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE TO THE DESIGN HAZARD LOG).
- WORKING WITHIN LIVE TRAFFIC AND UNDER TRAFFIC MANAGEMENT
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- WORKING WITH HAZARDOUS MATERIAL (ASPHALT)
- DITCH EXCAVATIONS

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- THIS DRAWING TO BE READ IN CONJUNCTION WITH THE RELEVANT ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
- REFER TO DRAWING NUMBER 60160078-ACM-SHT-30-0150-CT-0001 TO 0005 & 60160078-ACM-SHT-30-0120-CT-0121 TO 0128 FOR LONG SECTIONS AND TYPICAL CROSS SECTION DETAILS.
- REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-9000-CT-9000 TO 9005 FOR STANDARD DETAILS.
- REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-0700-CT-0701 TO 0708 FOR PAVEMENT DETAILS.
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- VEGETATION LOCATIONS ARE INDICATIVE.



CUT LINE REFER TO SHEET 2 OF 8

REMOVE AND REINSTATE 14m OF EXISTING STONE WALL WITH BASE DRAINAGE SLOTS TO ALLOW RUNOFF TOWARDS DITCH 3 AND LLANMAES BROOK. REFER TO DRAWING NO. 60509148-ACM-SHT-30-9000-CT-9006 FOR STONE WALL DETAIL

WEST ROAD SURFACE WATER TO DISCHARGE INTO DITCH 3 TO BE TREATED BEFORE ENTERING LLANMAES BROOK

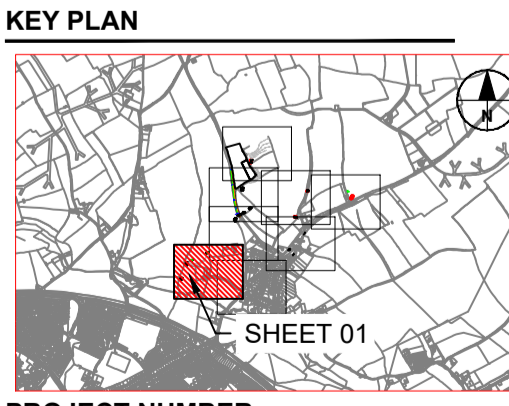
DITCH 3
TOTAL CUT VOLUME: 1,100m³
TOTAL PLAN AREA: 1,357m²

STATUS

DETAILED DESIGN

ISSUE/REVISION

NO	DATE	DESCRIPTION
B	26/02/2021	DETAILED DESIGN
A	16/12/2020	DRAFT DETAILED DESIGN
NR		



PROJECT NUMBER
60160078

SHEET TITLE
LLANMAES VILLAGE
FLOOD ALLEVIATION SCHEME
GENERAL ARRANGEMENT PLAN
SHEET 1 OF 8

SHEET NUMBER
60160078-ACM-SHT-30-0100-CT-0101

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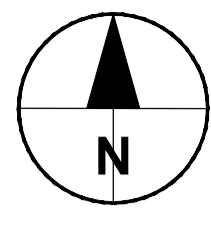


PROJECT
LLANMAES VILLAGE
FLOOD ALLEVIATION
SCHEME

CLIENT
VALE OF GLAMORGAN COUNCIL

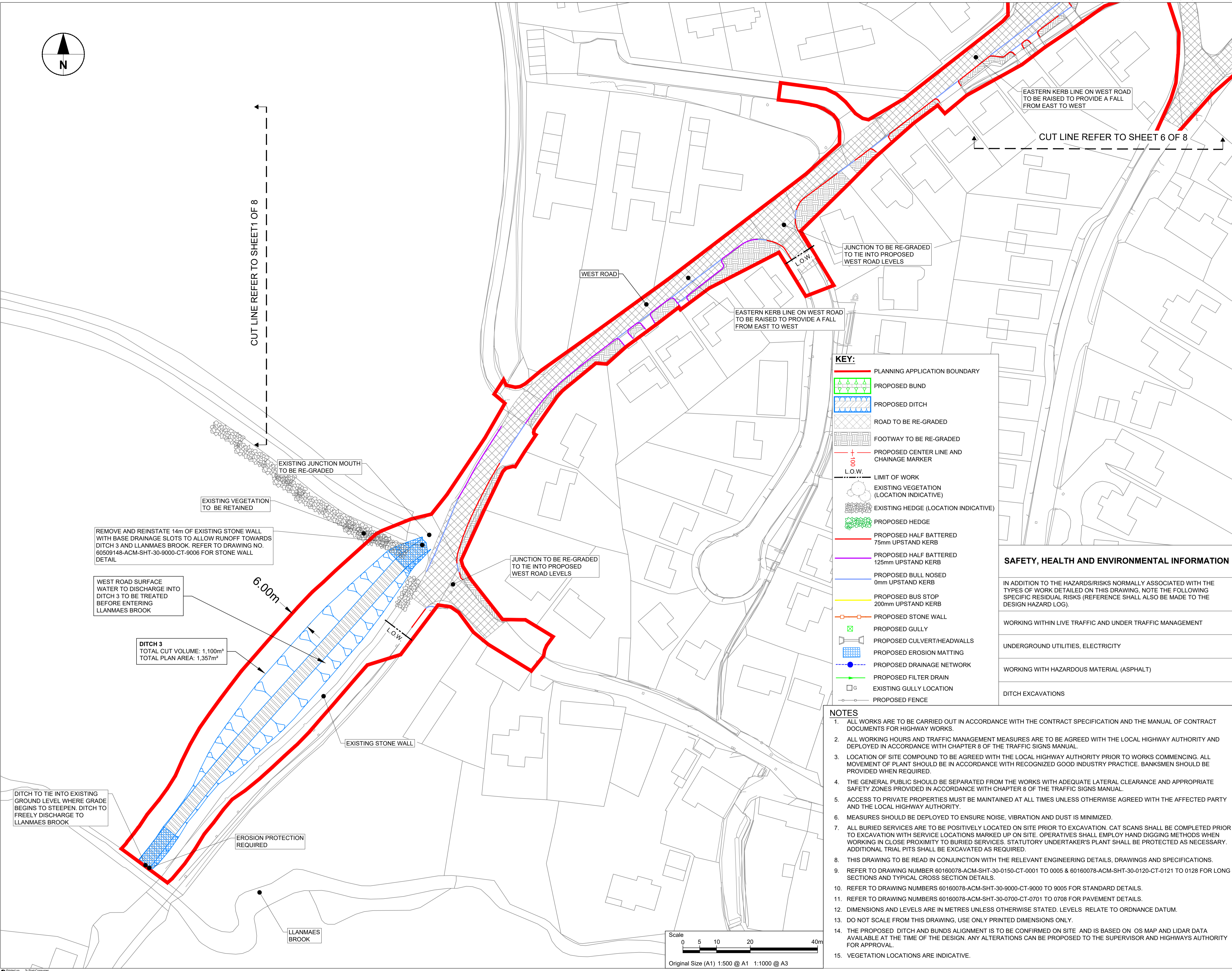


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Project Management Initials: Designer: RD Checked: MH Approved: ATZ

Last saved by: JONATHAN BLISSETT (2021-03-02) Last Printed: 2021-03-02
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KEY:

- PLANNING APPLICATION BOUNDARY
- PROPOSED BUND
- PROPOSED DITCH
- ROAD TO BE RE-GRADED
- FOOTWAY TO BE RE-GRADED
- PROPOSED CENTER LINE AND CHAINAGE MARKER
- L.O.W.
- LIMIT OF WORK (LOCATION INDICATIVE)
- EXISTING VEGETATION (LOCATION INDICATIVE)
- EXISTING HEDGE (LOCATION INDICATIVE)
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- PROPOSED EROSION MATTING
- PROPOSED DRAINAGE NETWORK
- PROPOSED FILTER DRAIN
- EXISTING GULLY LOCATION
- PROPOSED FENCE

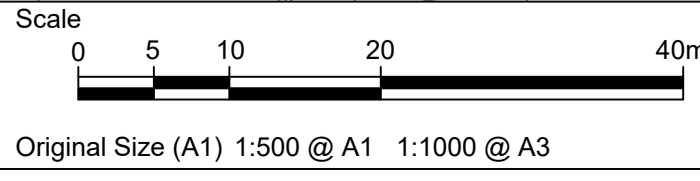
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SPECIFIC RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE TO THE DESIGN HAZARD LOG).

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- UNDERGROUND UTILITIES, ELECTRICITY
- WORKING WITH HAZARDOUS MATERIAL (ASPHALT)
- DITCH EXCAVATIONS

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10. REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-9000-CT-9000 TO 9005 FOR STANDARD DETAILS.
11. REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-0700-CT-0701 TO 0708 FOR PAVEMENT DETAILS.
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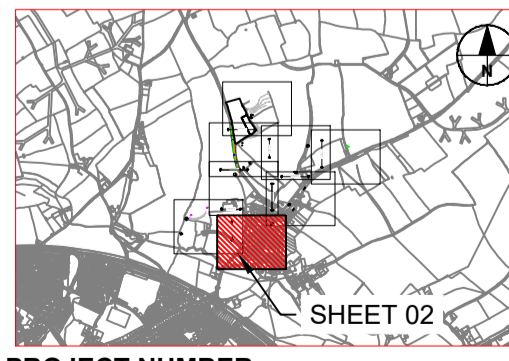
STATUS

DETAILED DESIGN

ISSUE/REVISION

IR	DATE	DESCRIPTION
B	26/02/2021	DETAILED DESIGN
A	16/12/2020	DRAFT DETAILED DESIGN

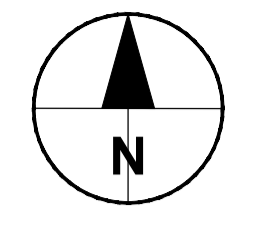
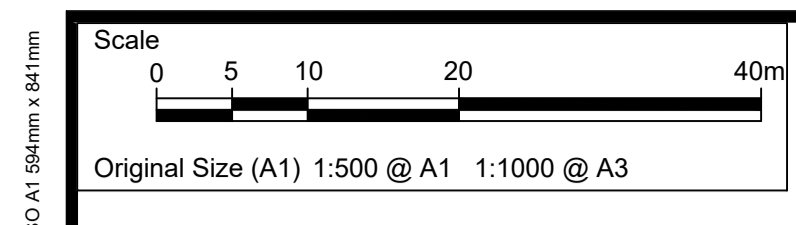
KEY PLAN



PROJECT NUMBER
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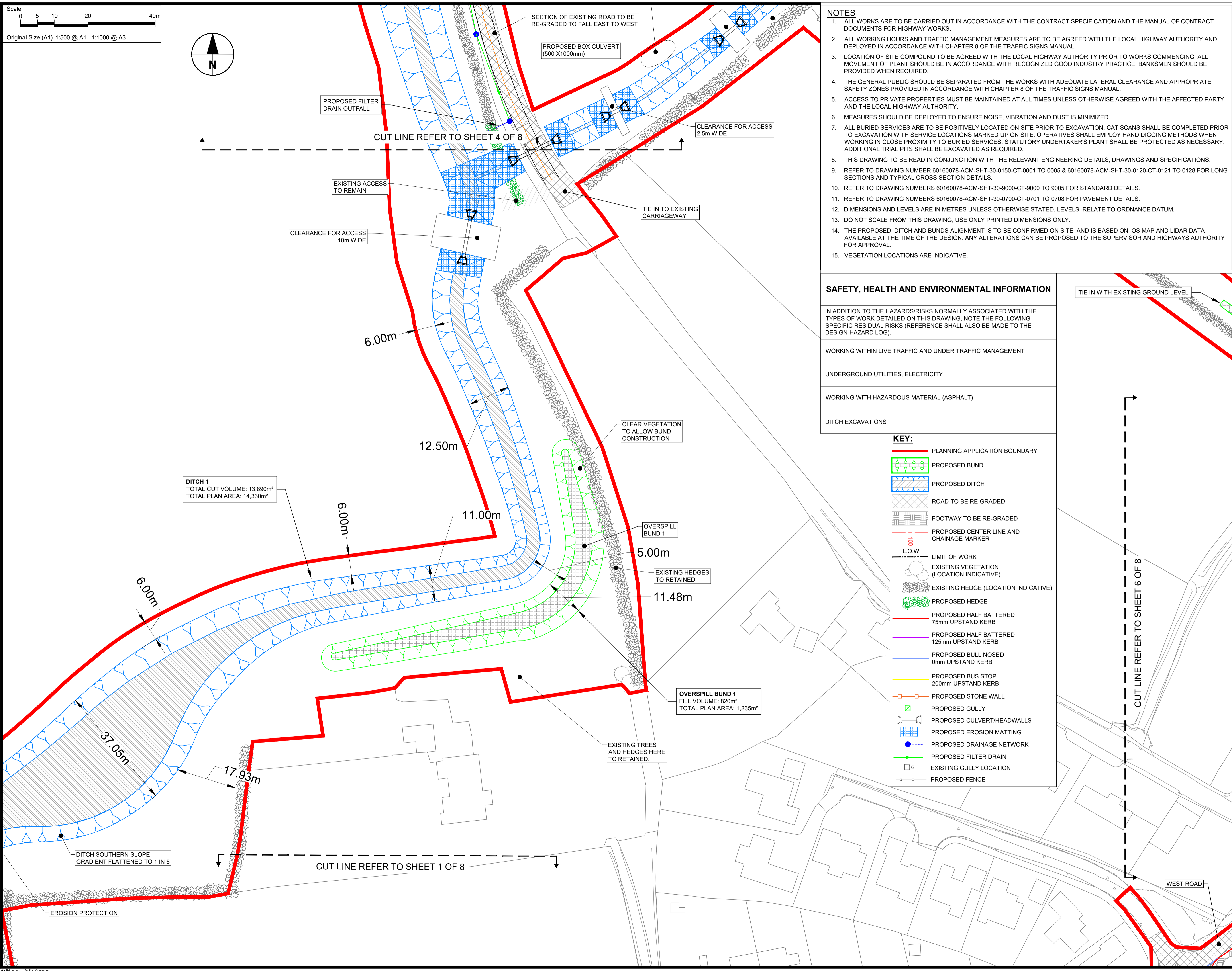
SHEET TITLE
LLANMAES VILLAGE
FLOOD ALLEVIATION SCHEME
GENERAL ARRANGEMENT PLAN
SHEET 2 OF 8

SHEET NUMBER
60160078-ACM-SHT-30-0100-CT-0102



Approved: ATZ
Checked: MH
Designer: RD
Project Management Initials:

Project Management Initials:
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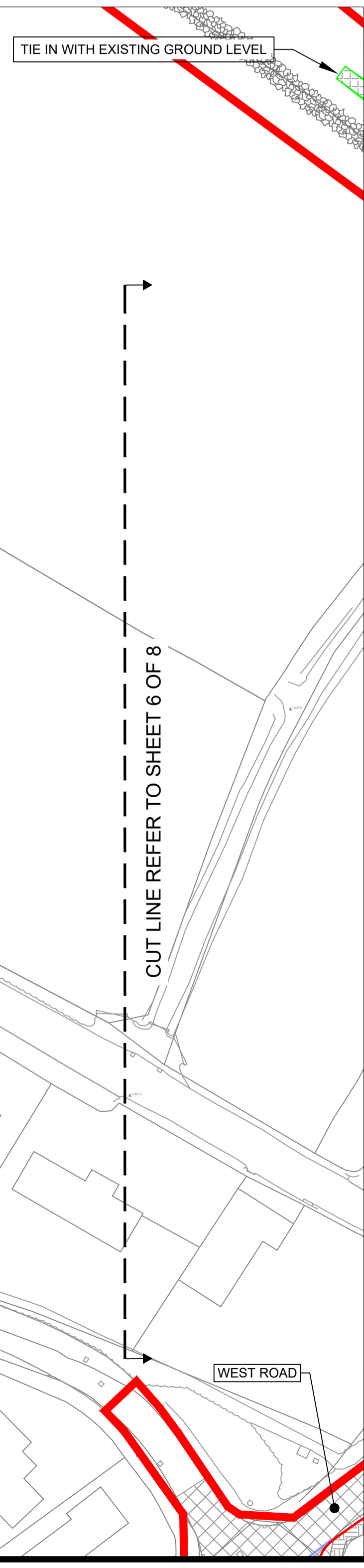
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 11. REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-0700-CT-0701 TO 0708 FOR PAVEMENT DETAILS.
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KEY:

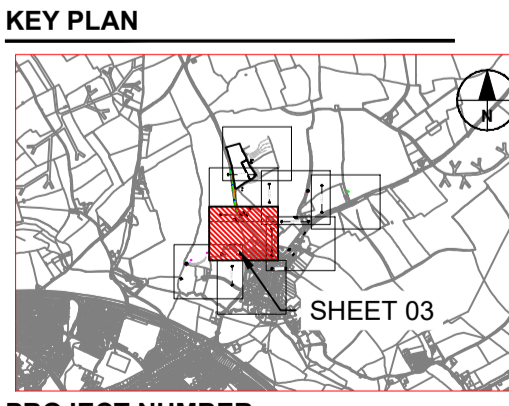
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NO	DATE	DESCRIPTION
B	26/02/2021	DETAILED DESIGN
A	16/12/2020	DRAFT DETAILED DESIGN
IR		



PROJECT NUMBER
60160078

SHEET TITLE
LLANMAES VILLAGE
FLOOD ALLEVIATION SCHEME
GENERAL ARRANGEMENT PLAN
SHEET 3 OF 8

SHEET NUMBER
60160078-ACM-SHT-30-0100-CT-0103

Last saved by: JONATHAN BLISSETT (2021-03-02) | Last Plotter: 2021-03-02 | File Name: F:\PROJECTS\HIGHWAYS - LLANMAES FLOOD ALLEVIATION\SCHEMES\0 CADDS\5.3 DRAWINGS\SERIES 0100 - PRELIM\30 0100 GENERAL ARRANGEMENT\60160078-ACM-SHT-30-0100-CT-01-01-0108.DWG

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SPECIFIC RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE TO THE DESIGN HAZARD LOG).

WORKING WITHIN LIVE TRAFFIC AND UNDER TRAFFIC MANAGEMENT

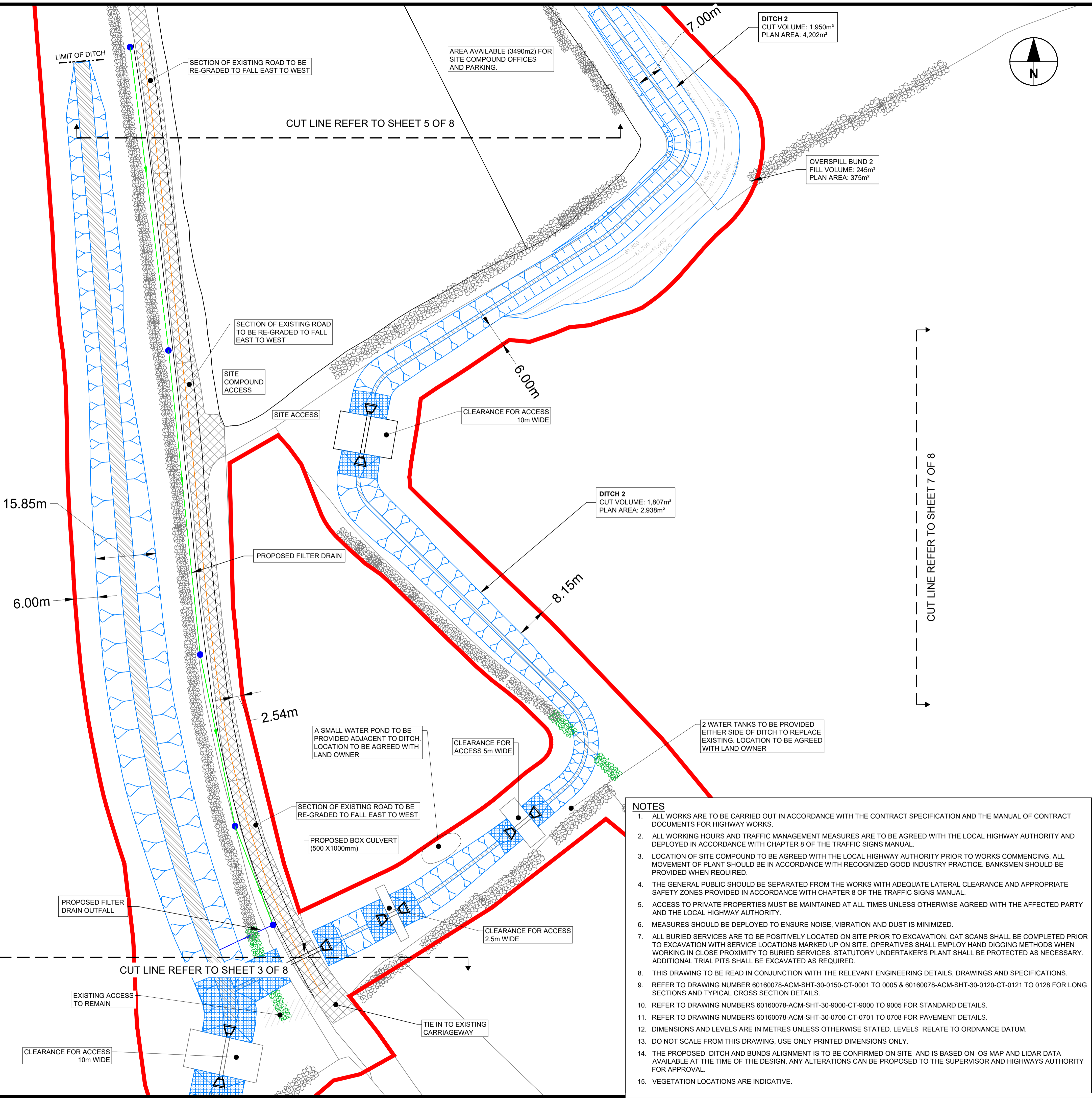
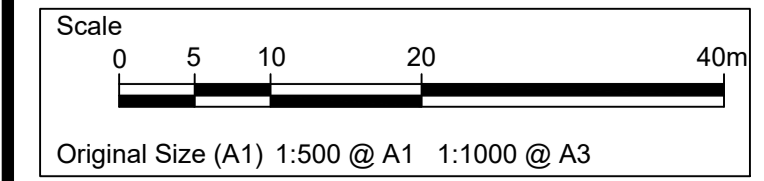
UNDERGROUND UTILITIES, ELECTRICITY

WORKING WITH HAZARDOUS MATERIAL (ASPHALT)

DITCH EXCAVATIONS

KEY:

	PLANNING APPLICATION BOUNDARY
	PROPOSED BUND
	PROPOSED DITCH
	ROAD TO BE RE-GRADED
	FOOTWAY TO BE RE-GRADED
	PROPOSED CENTER LINE AND CHAINAGE MARKER
	L.O.W.
	LIMIT OF WORK
	EXISTING VEGETATION (LOCATION INDICATIVE)
	EXISTING HEDGE (LOCATION INDICATIVE)
	PROPOSED HEDGE
	PROPOSED HALF BATTERED 75mm UPSTAND KERB
	PROPOSED HALF BATTERED 125mm UPSTAND KERB
	PROPOSED BULL NOSED 0mm UPSTAND KERB
	PROPOSED BUS STOP 200mm UPSTAND KERB
	PROPOSED STONE WALL
	PROPOSED GULLY
	PROPOSED CULVERT/HEADWALLS
	PROPOSED EROSION MATTING
	PROPOSED DRAINAGE NETWORK
	PROPOSED FILTER DRAIN
	EXISTING GULLY LOCATION
	PROPOSED FENCE

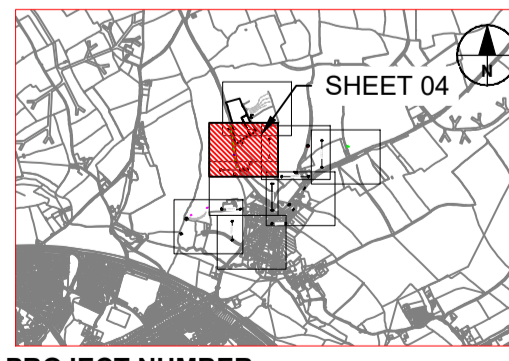


- NOTES**
1. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE CONTRACT SPECIFICATION AND THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS.
 2. ALL WORKING HOURS AND TRAFFIC MANAGEMENT MEASURES ARE TO BE AGREED WITH THE LOCAL HIGHWAY AUTHORITY AND DEPLOYED IN ACCORDANCE WITH CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL.
 3. LOCATION OF SITE COMPOUND TO BE AGREED WITH THE LOCAL HIGHWAY AUTHORITY PRIOR TO WORKS COMMENCING. ALL MOVEMENT OF PLANT SHOULD BE IN ACCORDANCE WITH RECOGNIZED GOOD INDUSTRY PRACTICE. BANKSMEN SHOULD BE PROVIDED WHEN REQUIRED.
 4. THE GENERAL PUBLIC SHOULD BE SEPARATED FROM THE WORKS WITH ADEQUATE LATERAL CLEARANCE AND APPROPRIATE SAFETY ZONES PROVIDED IN ACCORDANCE WITH CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL.
 5. ACCESS TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AGREED WITH THE AFFECTED PARTY AND THE LOCAL HIGHWAY AUTHORITY.
 6. MEASURES SHOULD BE DEPLOYED TO ENSURE NOISE, VIBRATION AND DUST IS MINIMIZED.
 7. ALL BURIED SERVICES ARE TO BE POSITIVELY LOCATED ON SITE PRIOR TO EXCAVATION. CAT SCANS SHALL BE COMPLETED PRIOR TO EXCAVATION WITH SERVICE LOCATIONS MARKED UP ON SITE. OPERATIVES SHALL EMPLOY HAND DIGGING METHODS WHEN WORKING IN CLOSE PROXIMITY TO BURIED SERVICES. STATUTORY UNDERTAKER'S PLANT SHALL BE PROTECTED AS NECESSARY. ADDITIONAL TRIAL PITS SHALL BE EXCAVATED AS REQUIRED.
 8. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE RELEVANT ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
 9. REFER TO DRAWING NUMBER 60160078-ACM-SHT-30-0150-CT-0001 TO 0005 & 60160078-ACM-SHT-30-0120-CT-0121 TO 0128 FOR LONG SECTIONS AND TYPICAL CROSS SECTION DETAILS.
 10. REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-9000-CT-9000 TO 9005 FOR STANDARD DETAILS.
 11. REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-0700-CT-0701 TO 0708 FOR PAVEMENT DETAILS.
 12. DIMENSIONS AND LEVELS ARE IN METRES UNLESS OTHERWISE STATED. LEVELS RELATE TO ORDNANCE DATUM.
 13. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS ONLY.
 14. THE PROPOSED DITCH AND BUNDS ALIGNMENT IS TO BE CONFIRMED ON SITE AND IS BASED ON OS MAP AND LIDAR DATA AVAILABLE AT THE TIME OF THE DESIGN. ANY ALTERATIONS CAN BE PROPOSED TO THE SUPERVISOR AND HIGHWAYS AUTHORITY FOR APPROVAL.
 15. VEGETATION LOCATIONS ARE INDICATIVE.

STATUS
DETAILED DESIGN

ISSUE/REVISION		
B	26/02/2021	DETAILED DESIGN
A	16/12/2020	DRAFT DETAILED DESIGN
NR	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER
60160078
SHEET TITLE
LLANMAES VILLAGE FLOOD ALLEVIATION SCHEME GENERAL ARRANGEMENT PLAN SHEET 4 OF 8
SHEET NUMBER
60160078-ACM-SHT-30-0100-CT-0104

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