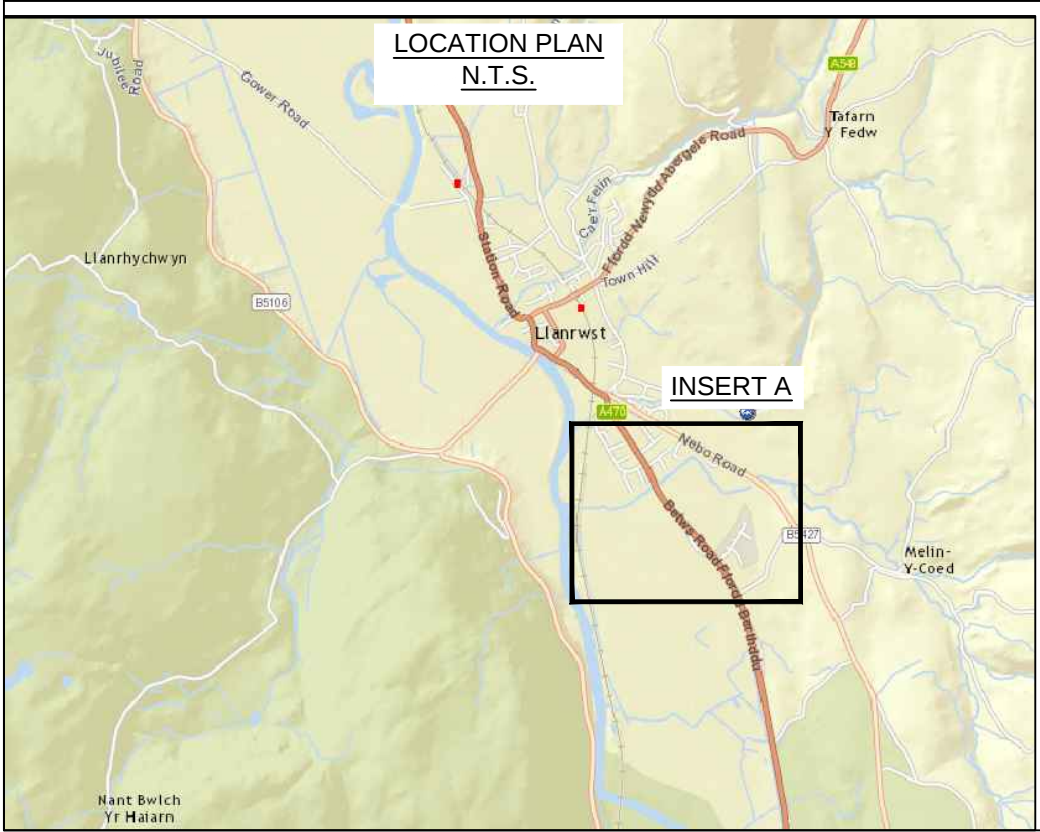
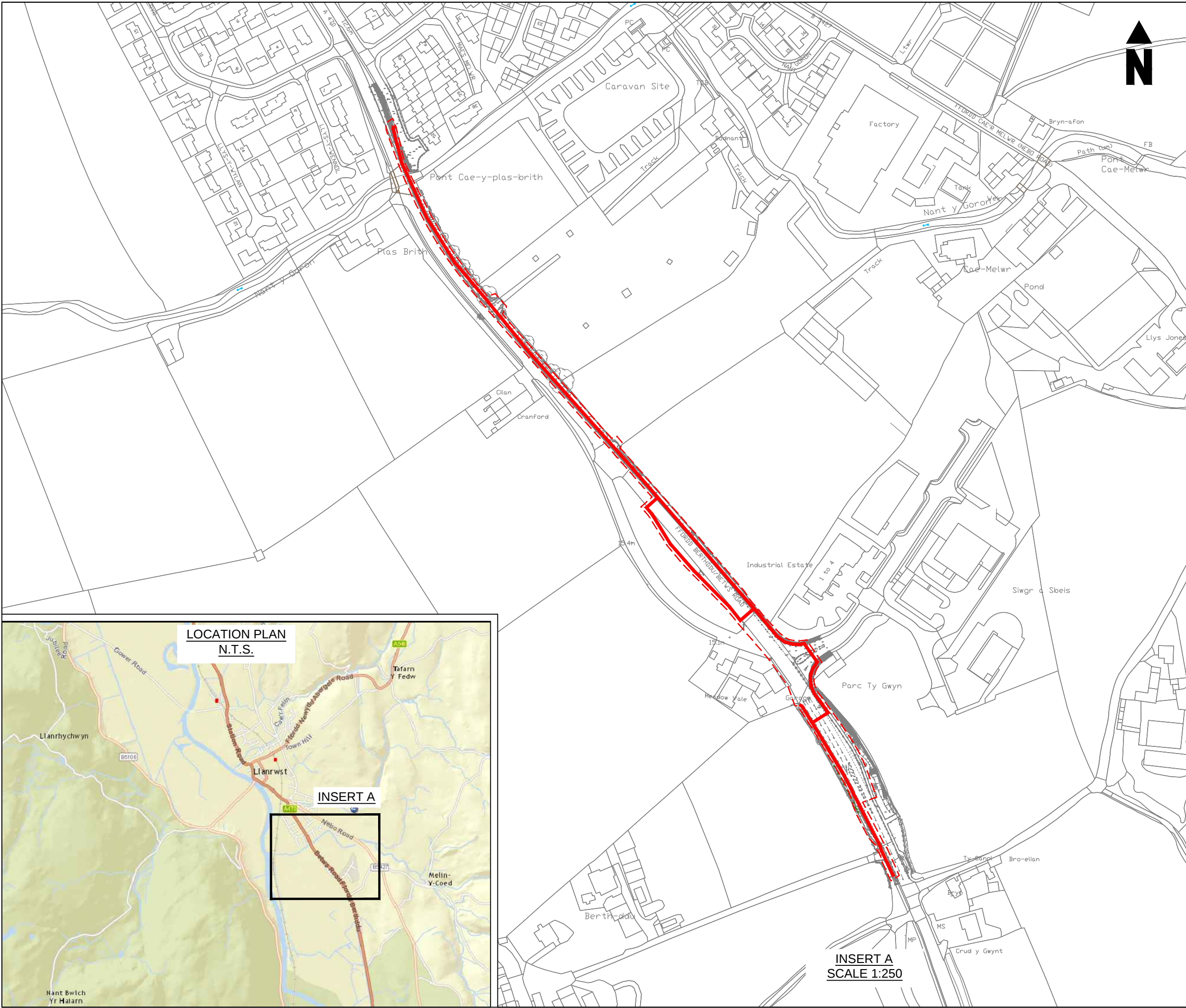


TENDER DRAWING INDEX

TENDER DRAWINGS

|               |                                                  |
|---------------|--------------------------------------------------|
| 70019782-0100 | LOCATION PLAN AND SITE EXTENTS                   |
| 70019782-0101 | GENERAL ARRANGEMENT SHEET 1 OF 2                 |
| 70019782-0102 | GENERAL ARRANGEMENT SHEET 2 OF 2                 |
| 70019782-0103 | SETTING OUT DETAILS SHEET 1 OF 2                 |
| 70019782-0104 | SETTING OUT DETAILS SHEET 2 OF 2                 |
| 70019782-0201 | SITE CLEARANCE SHEET 1 OF 2                      |
| 70019782-0202 | SITE CLEARANCE SHEET 2 OF 2                      |
| 70019782-0701 | BUS LAY-BY PAVEMENT CONSTRUCTION DETAIL          |
| 70019782-1101 | KERBS, FOOTWAYS AND PAVED AREAS SHEET 1 OF 2     |
| 70019782-1102 | KERBS, FOOTWAYS AND PAVED AREAS SHEET 2 OF 2     |
| 70019782-1103 | HIGHWAY TYPICAL CONSTRUCTION DETAIL SHEET 1 OF 2 |
| 70019782-1104 | HIGHWAY TYPICAL CONSTRUCTION DETAIL SHEET 2 OF 2 |
| 70019782-1105 | RAMP PLAN, PROFILE AND CROSS-SECTION             |
| 70019782-1201 | SIGNAGE AND ROAD MARKINGS SHEET 1 OF 2           |
| 70019782-1202 | SIGNAGE AND ROAD MARKINGS SHEET 2 OF 2           |
| 70019782-1203 | SIGNAGE AND ROAD MARKING SCHEDULE                |
| 70019782-1204 | SIGNAGE FOUNDATION DETAILS                       |

|                                                                                                                                                                                                                                                                                                                      |      |             |                 |               |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|-----------------|---------------|-----------|
| Rev                                                                                                                                                                                                                                                                                                                  | Date | Description | By              | Chk           | App       |
| TENDER DRAWING                                                                                                                                                                                                                                                                                                       |      |             |                 |               |           |
| <div><div><div>1 Capital Quarter,<br/>Tyndall Street,<br/>Cardiff, CF10 4BZ</div></div><div><div>Tel: 44-(0)29-2076-9200</div></div></div> |      |             |                 |               |           |
| Client:<br>NORTH & MID<br>WALES TRUNK ROAD AGENT                                                                                                                                                                                                                                                                     |      |             |                 |               |           |
| Site/Project:<br>A470 LLANRWST<br>PEDESTRIAN AND<br>CYCLEWAY FACILITY                                                                                                                                                                                                                                                |      |             |                 |               |           |
| Title:<br><br>WORKS INFORMATION<br>SCHEME DRAWINGS                                                                                                                                                                                                                                                                   |      |             |                 |               |           |
| Drawn: SS                                                                                                                                                                                                                                                                                                            |      |             | Checked: AB     |               |           |
| Designed: CR                                                                                                                                                                                                                                                                                                         |      |             | Approved: NH    |               |           |
| Date: 11/04/2016                                                                                                                                                                                                                                                                                                     |      | Scale: -    | A3              | Sheet: 1 OF 1 |           |
| Project Number:                                                                                                                                                                                                                                                                                                      |      |             | Drawing Number: |               | Revision: |
| 70019782                                                                                                                                                                                                                                                                                                             |      |             | XXX             |               | -         |
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KEY:

PROPOSED CYCLEWAY / PATHWAY

EXTENT FOR PROPOSED WORKS

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| Rev | Date | Description | By | Chk | App |
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Site/Project:

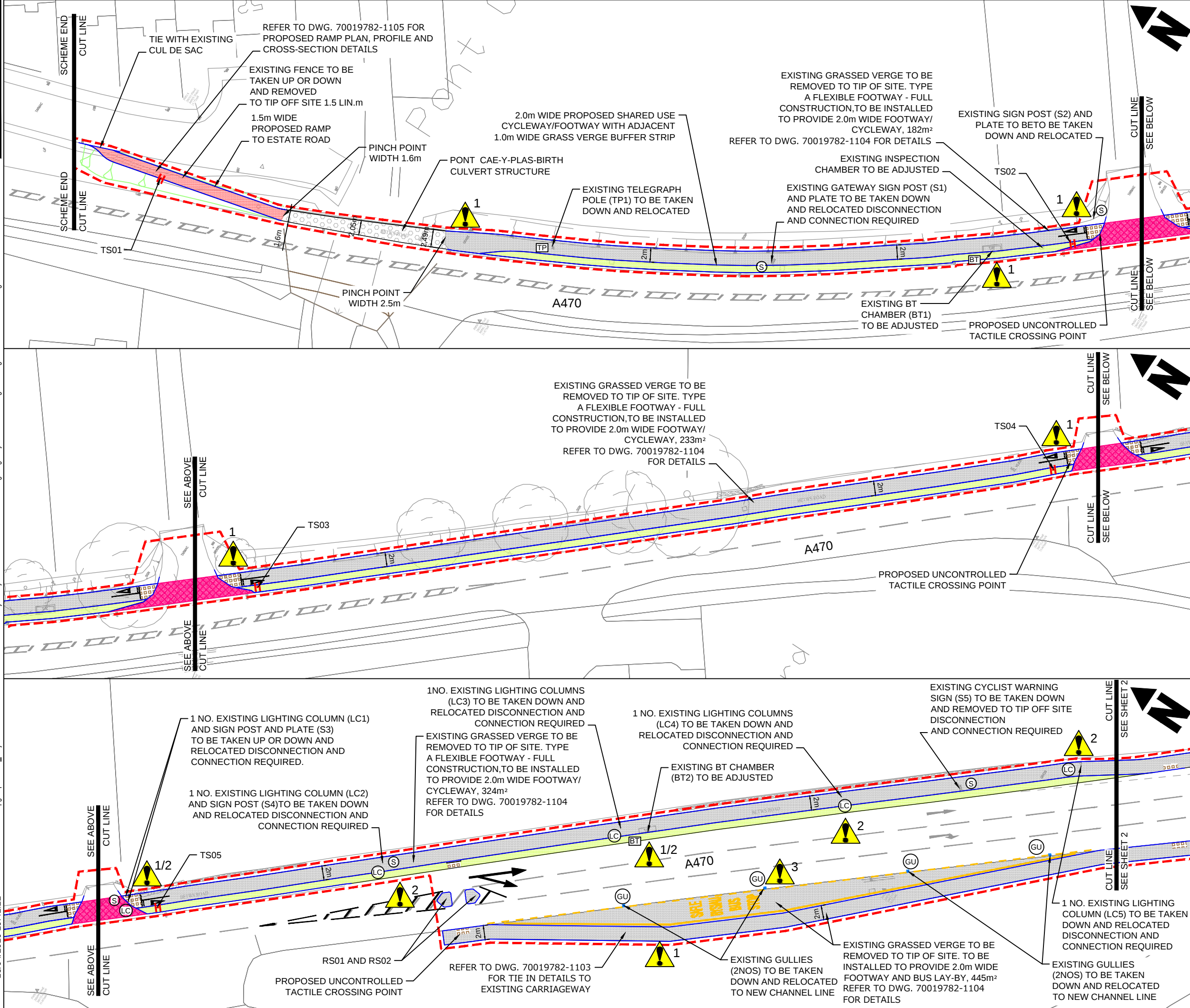
A470 LLANRWST  
PEDESTRIAN AND  
CYCLEWAY FACILITY

Title:

LOCATION PLAN

|                  |                 |           |               |
|------------------|-----------------|-----------|---------------|
| Drawn: SS        | Checked: AB     |           |               |
| Designed: CR     | Approved: NH    |           |               |
| Date: 11/04/2016 | Scale: AS SHOWN | A3        | Sheet: 1 OF 1 |
| Project Number:  | Drawing Number: | Revision: |               |
| 70019782         | 100             | -         |               |

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  4. FOR SIGNAGE LOCATION AND DETAILS REFER TO DRAWING 1200 SERIES.
  5. PROPOSED BUS LAY-BY NEED TO BE CONSTRUCTED AS PER STANDARD LAYOUT OF TD 69 FIGURE NO. 5.1

**KEY:**

-  PROPOSED FOOTWAY
-  PROPOSED VERGE
-  PROPOSED CARRIAGEWAY
-  PROPOSED UNCONTROLLED TACTILE
-  PROPOSED REFUGE ISLAND
-  PROPOSED RAMP
-  EXISTING FOOTWAY TO BE RETAIN
-  PROPOSED FOOTWAY VEHICLE CROSSING
-  EXTENTS OF PROPOSED WORKS
-  PROPOSED KERBING
-  PROPOSED EARTHWORK (SLOPE OF 1:3)


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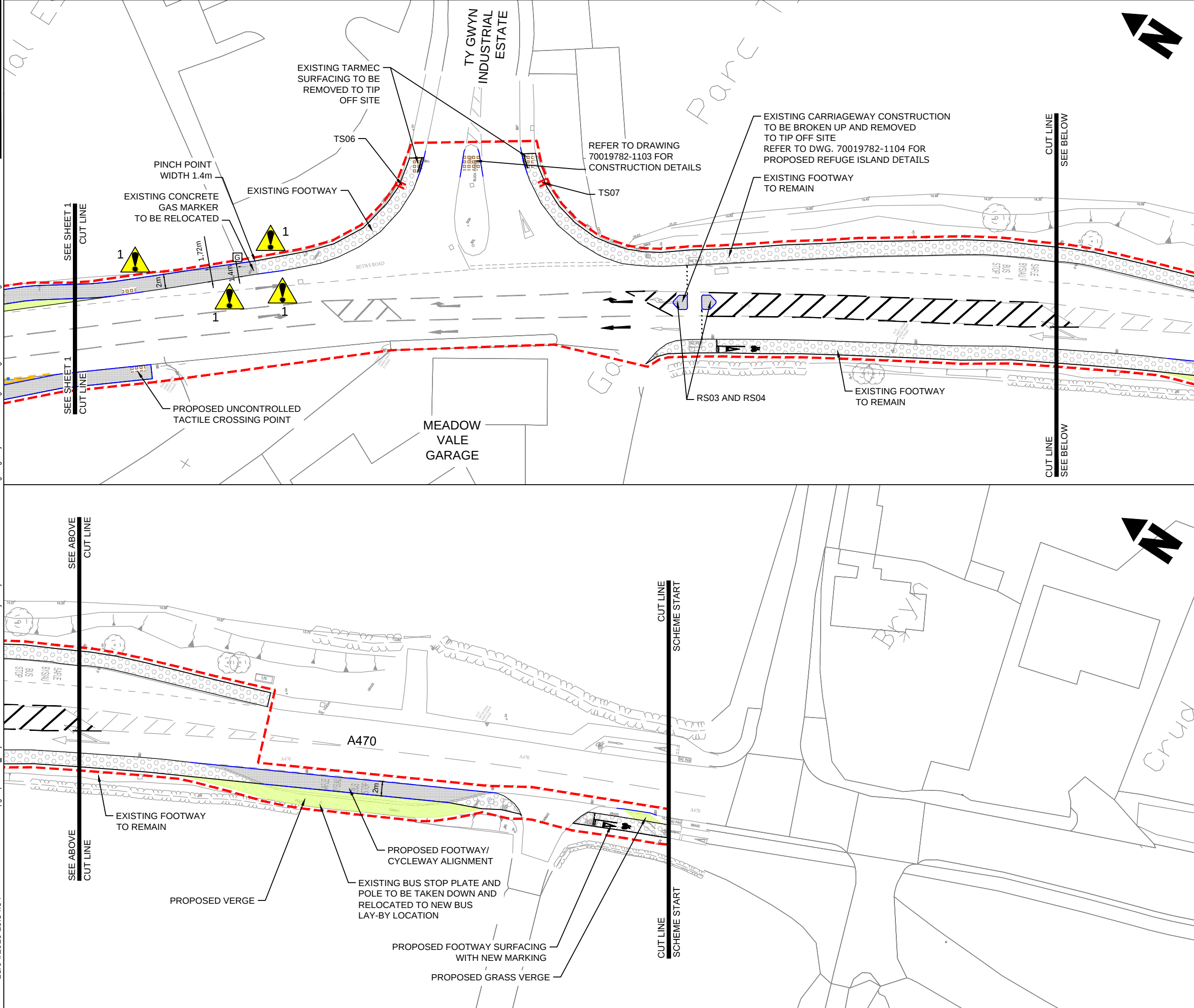
**A470 LLANRWST  
PEDESTRIAN AND  
CYCLEWAY FACILITY**

Title:

GENERAL ARRANGEMENT  
SHEET 1 OF 2

|                  |              |                 |               |
|------------------|--------------|-----------------|---------------|
| Drawn: SS        |              | Checked: AB     |               |
| Designed: CR     |              | Approved: NH    |               |
| Date: 11/04/2016 | Scale: 1:500 | A3              | Sheet: 1 OF 2 |
| Project Number:  |              | Drawing Number: |               |
| 70019782         |              | 101             |               |
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- FOR SIGNAGE LOCATION AND DETAILS REFER TO DRAWING 1200 SERIES.

**KEY:**

- PROPOSED FOOTWAY
- PROPOSED VERGE
- PROPOSED CARRIAGEWAY
- PROPOSED UNCONTROLLED TACTILE
- PROPOSED REFUGE ISLAND
- PROPOSED RAMP
- EXISTING FOOTWAY TO BE RETAIN
- PROPOSED FOOTWAY VEHICLE CROSSING
- EXTENTS OF PROPOSED WORKS
- PROPOSED KERBING
- PROPOSED EARTHWORK (SLOPE OF 1:3)

**HEALTH AND SAFETY INFORMATION**

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

**CONSTRUCTION PHASE**

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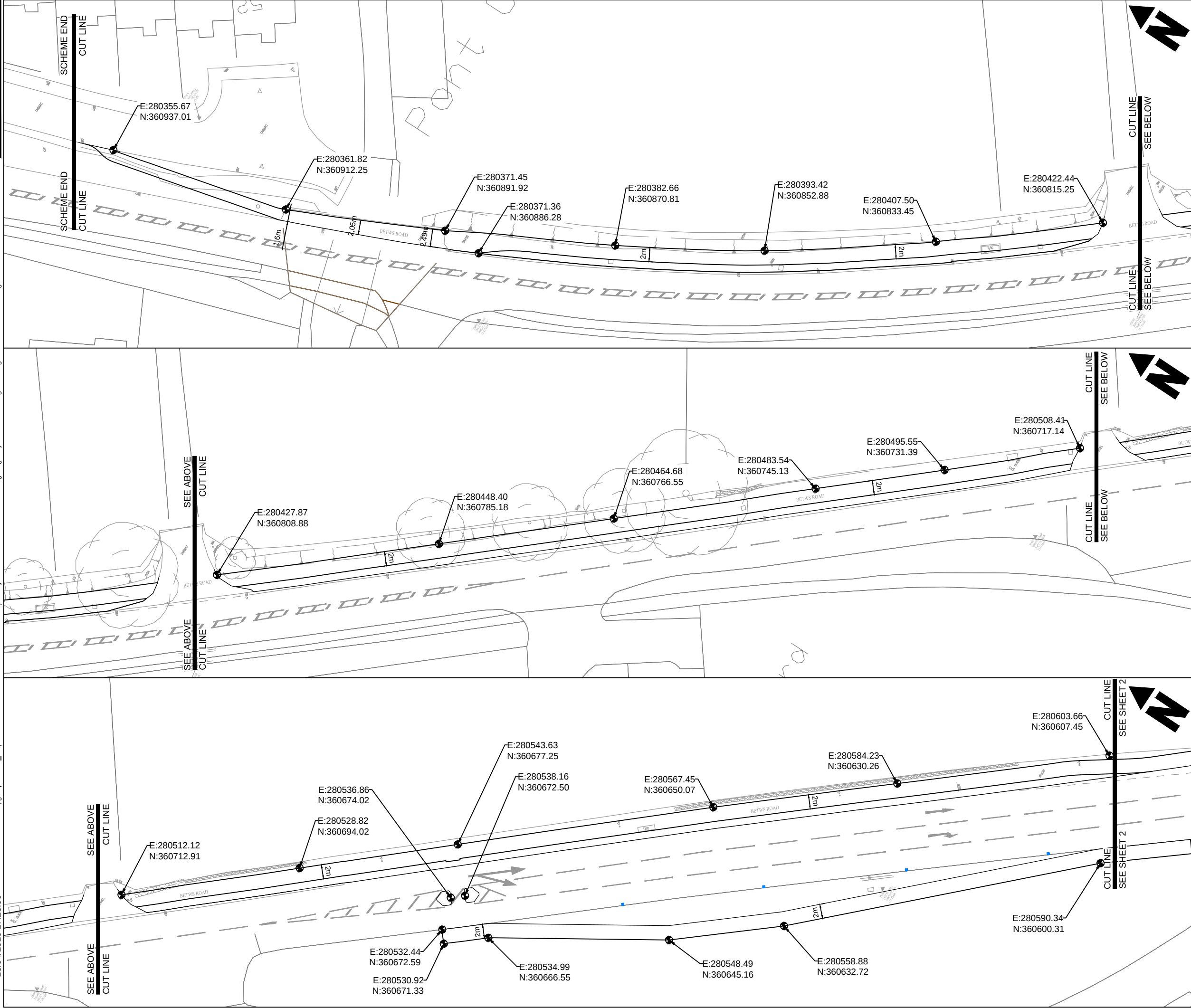
**A470 LLANRWST PEDESTRIAN AND CYCLEWAY FACILITY**

Title:

**GENERAL ARRANGEMENT SHEET 2 OF 2**

|                          |                     |             |               |
|--------------------------|---------------------|-------------|---------------|
| Drawn: SS                | Checked: AB         |             |               |
| Designed: CR             | Approved: NH        |             |               |
| Date: 11/04/2016         | Scale: 1:500        | A3          | Sheet: 2 OF 2 |
| Project Number: 70019782 | Drawing Number: 102 | Revision: - |               |

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KEY:

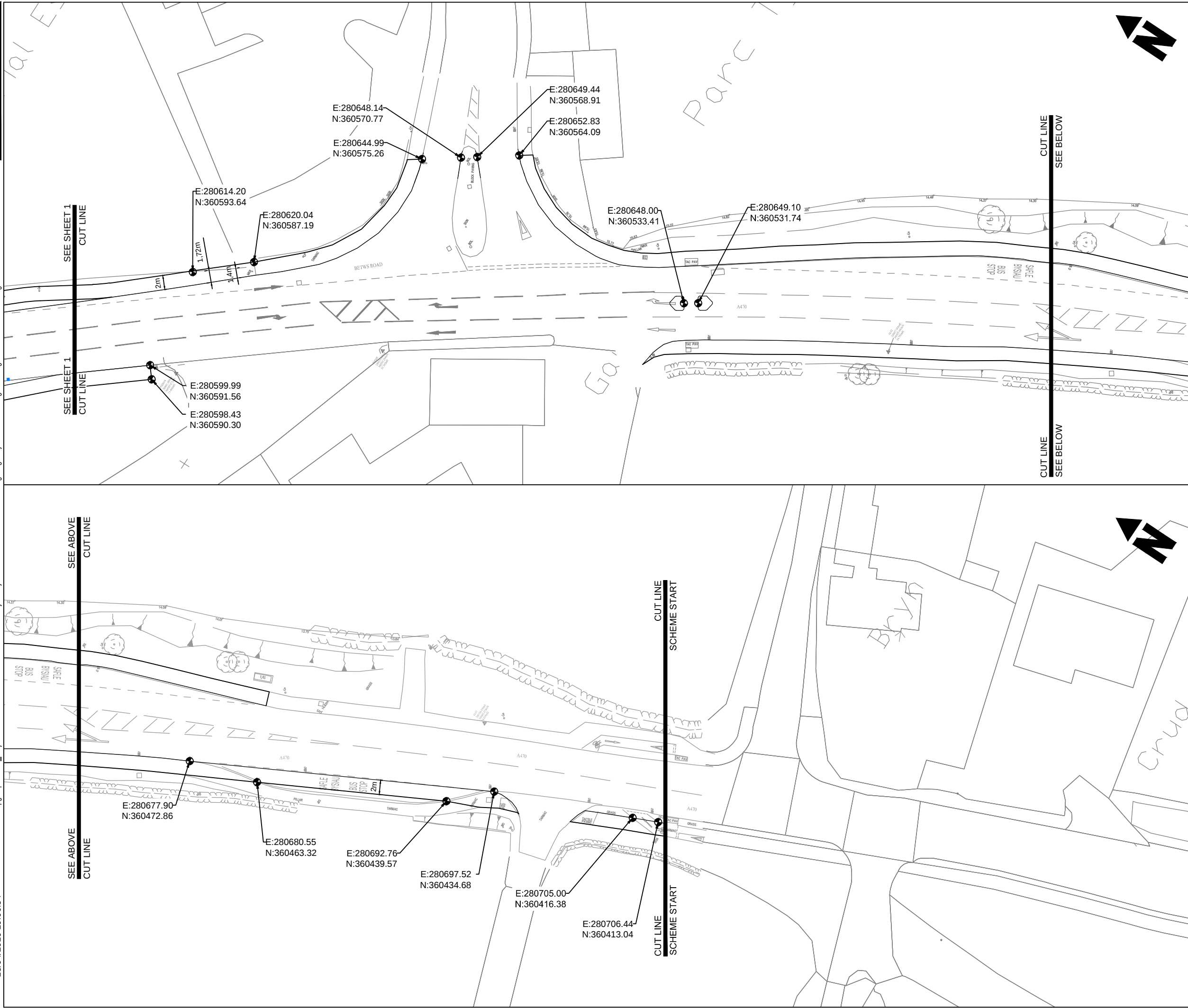
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Cynngor Bwrdeistref Sirol Blaenau Gwent, LA 09002L

| Rev                                                                                                                                                                                                                          | Date         | Description         | By            | Chk         | App |
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| Client:<br>NORTH & MID<br>WALES TRUNK ROAD AGENT                                                                                                                                                                             |              |                     |               |             |     |
| Site/Project:<br>A470 LLANRWST<br>PEDESTRIAN AND<br>CYCLEWAY FACILITY                                                                                                                                                        |              |                     |               |             |     |
| Title:<br>SITTING OUT DETAILS<br>SHEET 1 OF 2                                                                                                                                                                                |              |                     |               |             |     |
| Drawn: SS                                                                                                                                                                                                                    |              | Checked: AB         |               |             |     |
| Designed: CR                                                                                                                                                                                                                 |              | Approved: NH        |               |             |     |
| Date: 11/04/2016                                                                                                                                                                                                             | Scale: 1:500 | A3                  | Sheet: 1 OF 2 |             |     |
| Project Number: 70019782                                                                                                                                                                                                     |              | Drawing Number: 103 |               | Revision: - |     |
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| Rev | Date | Description | By | Chk | App |
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WALES TRUNK ROAD AGENT

Site/Project:

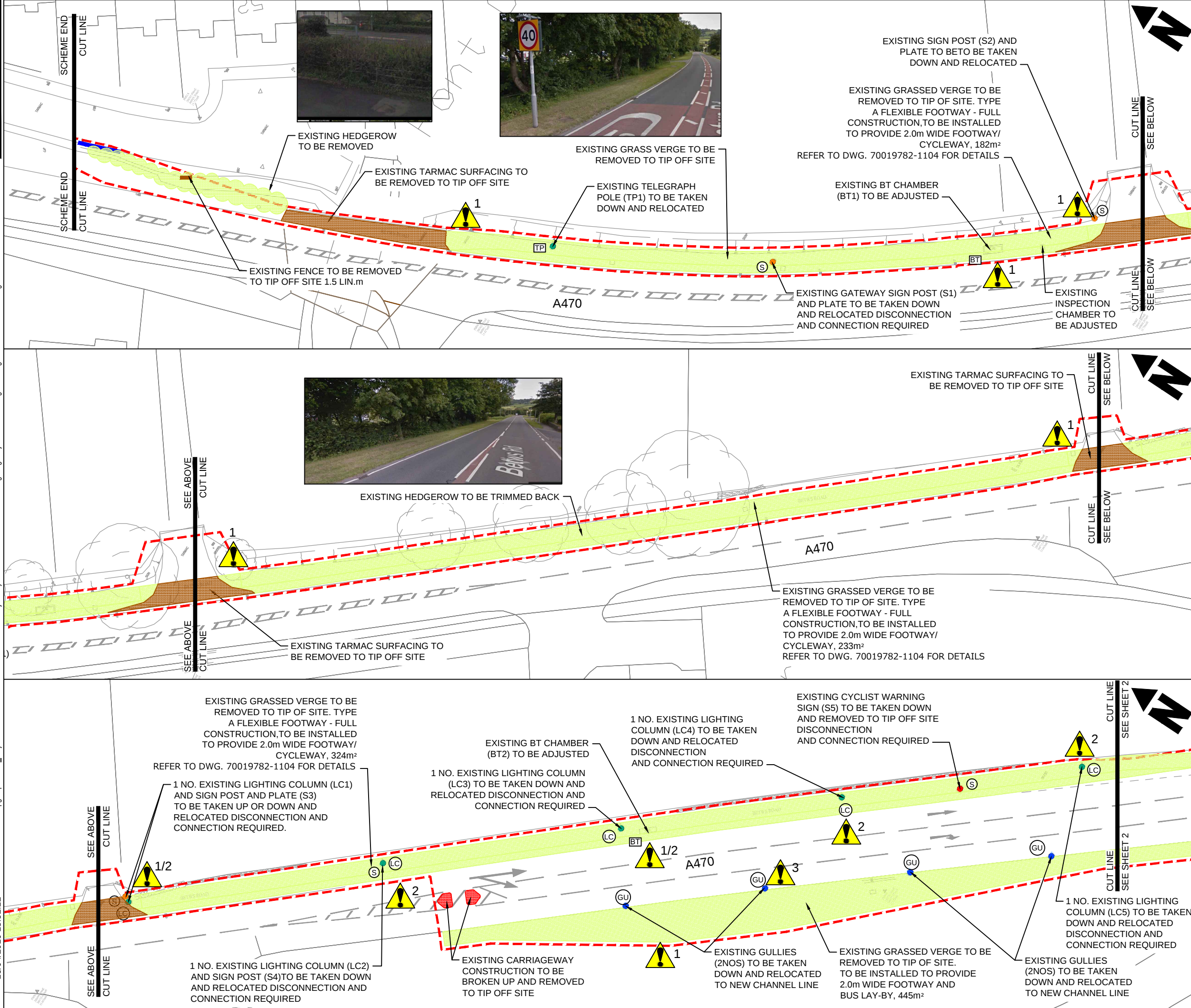
A470 LLANRWST  
PEDESTRIAN AND  
CYCLEWAY FACILITY

Title:

SITTING OUT DETAILS  
SHEET 2 OF 2

|                 |            |                 |        |
|-----------------|------------|-----------------|--------|
| Drawn:          | SS         | Checked:        | AB     |
| Designed:       | CR         | Approved:       | NH     |
| Date:           | 11/04/2016 | Scale:          | 1:500  |
| Project Number: | 70019782   | Drawing Number: | 104    |
|                 |            | Sheet:          | 2 OF 2 |
|                 |            | Revisions:      | -      |

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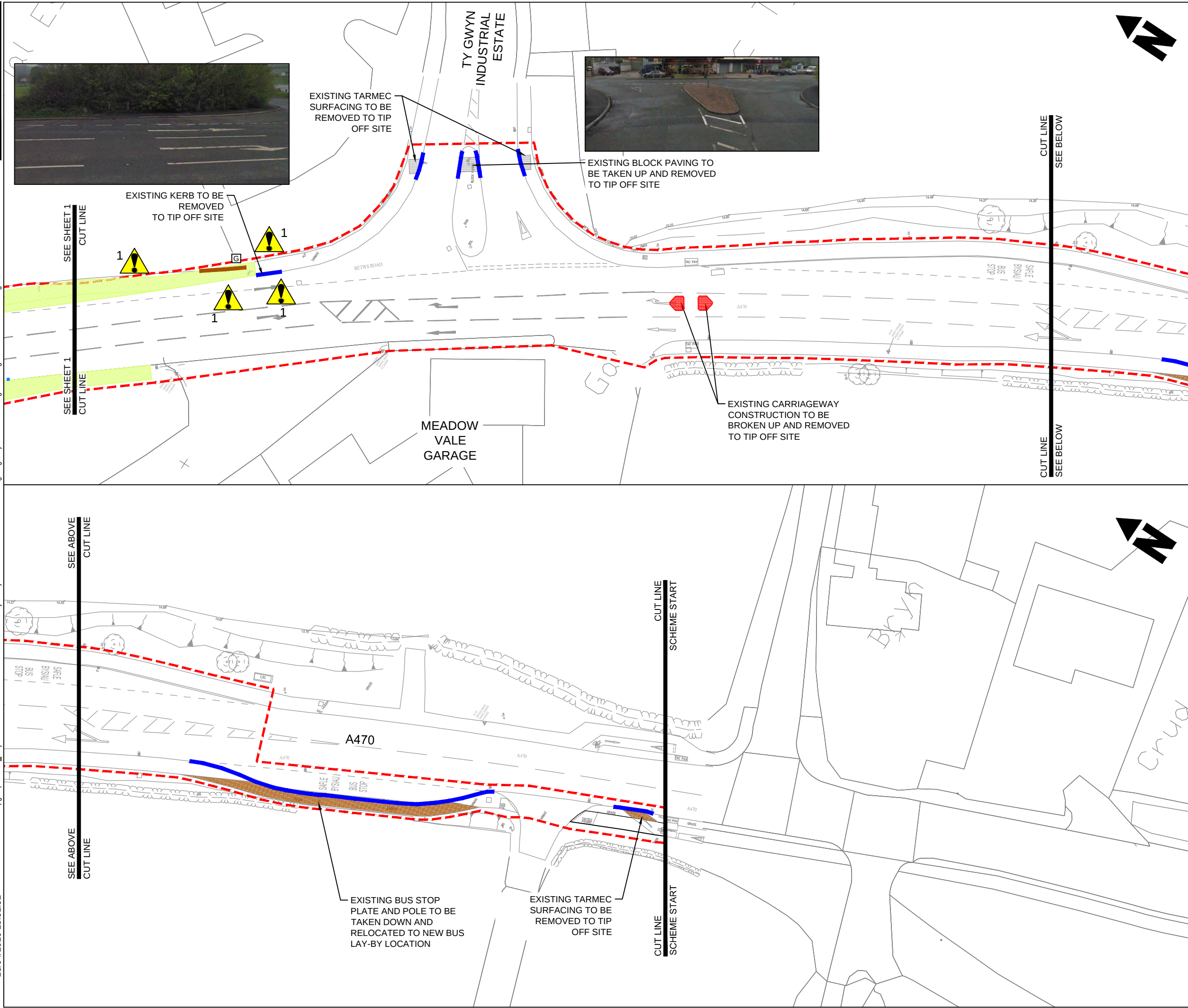
**KEY**  

- TAKE UP AND RELOCATE EXISTING STREET LIGHTING COLUMN
- TAKE UP AND RELOCATE EXISTING SIGN POST AND PLATE
- TAKE UP AND RELOCATE EXISTING GULLY
- EXISTING SIGN POST TO BE REMOVED TO TIP OFF SITE
- EXISTING GRASS VERGE TO BE REMOVED TO TIP OFF SITE
- EXISTING CARRIAGEWAY TO BE BROKEN UP AND REMOVED TO TIP OFF SITE
- EXISTING BLOCK PAVING TO BE REMOVED TO TIP OFF SITE
- EXISTING SURFACING TO BE REMOVED TO TIP OFF SITE
- EXISTING KERBING TO BE REMOVED TO TIP OFF SITE
- EXISTING FENCE TO BE REMOVED TO TIP OFF SITE
- - - EXTENTS OF PROPOSED WORKS

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Client: **NORTH & MID WALES TRUNK ROAD AGENT**  
Site/Project: **A470 LLANRWST PEDESTRIAN AND CYCLEWAY FACILITY**  
Title: **SITE CLEARANCE SHEET 1 OF 2**  
Drawn: SS  
Designed: CR  
Date: 11/04/2016  
Project Number: 70019782  
Checked: AB  
Approved: NH  
Scale: 1:500  
Drawing Number: 201  
Sheet: 1 OF 2  
Revision: -  
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KEY

TAKE UP AND RELOCATE EXISTING STREET LIGHTING COLUMN

TAKE UP AND RELOCATE EXISTING SIGN POST AND PLATE

TAKE UP AND RELOCATE EXISTING GULLY

EXISTING SIGN POST TO BE REMOVED TO TIP OFF SITE

EXISTING GRASS VERGE TO BE REMOVED TO TIP OFF SITE

EXISTING CARRIAGEWAY TO BE BROKEN UP AND REMOVED TO TIP OFF SITE

EXISTING BLOCK PAVING TO BE REMOVED TO TIP OFF SITE

EXISTING SURFACING TO BE REMOVED TO TIP OFF SITE

EXISTING KERB TO BE REMOVED TO TIP OFF SITE

EXISTING FENCE TO BE REMOVED TO TIP OFF SITE

EXTENTS OF PROPOSED WORKS

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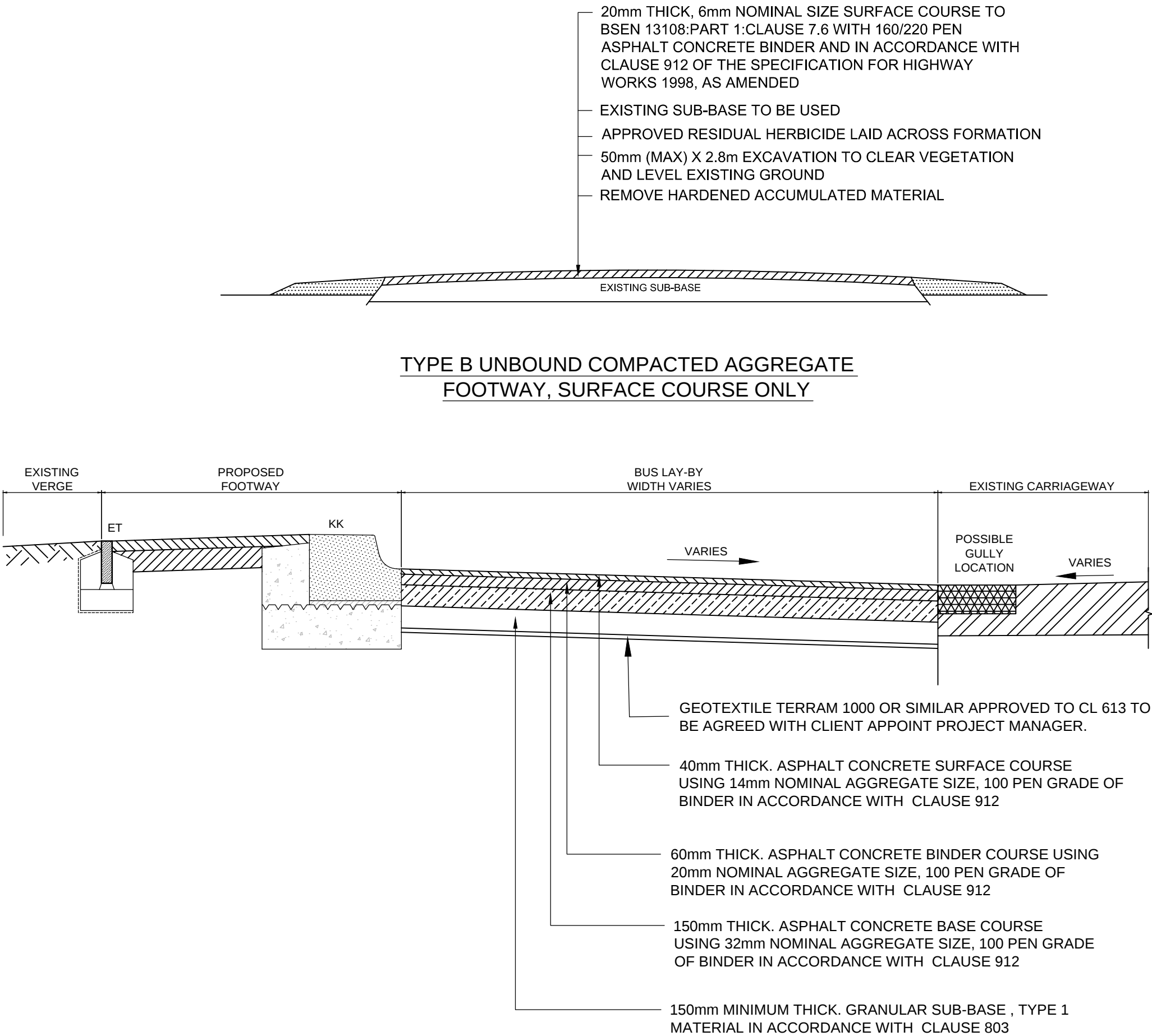
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| Client: NORTH & MID WALES TRUNK ROAD AGENT                                                                                                                                                                                                    |              |                     |               |             |     |
| Site/Project: A470 LLANRWST PEDESTRIAN AND CYCLEWAY FACILITY                                                                                                                                                                                  |              |                     |               |             |     |
| Title: SITE CLEARANCE SHEET 2 OF 2                                                                                                                                                                                                            |              |                     |               |             |     |
| Drawn: SS                                                                                                                                                                                                                                     |              | Checked: AB         |               |             |     |
| Designed: CR                                                                                                                                                                                                                                  |              | Approved: NH        |               |             |     |
| Date: 11/04/2016                                                                                                                                                                                                                              | Scale: 1:500 | A3                  | Sheet: 2 OF 2 |             |     |
| Project Number: 70019782                                                                                                                                                                                                                      |              | Drawing Number: 202 |               | Revision: - |     |
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TYPICAL BUS LAY-BY PAVEMENT CONSTRUCTION DETAIL

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. DO NOT SCALE FROM THIS DRAWING.
3. DRAINAGE HAS NOT BEEN DESIGNED FOR THE INTRODUCTION OF THE PROPOSED BUS LAT-BY.
4. FOR CONSTRUCTION DETAILS REFER TO DRAWING 70019782-1100 SERIES.

| Rev | Date | Description | By | Chk | App |
|-----|------|-------------|----|-----|-----|
|-----|------|-------------|----|-----|-----|

**TENDER DRAWING**



1 Capital Quarter,  
Tyndall Street,  
Cardiff, CF10 4BZ  
Tel: 44-(0)29-2076-9200

Client:  
**NORTH & MID  
WALES TRUNK ROAD AGENT**

Site/Project:  
**A470 LLANRWST  
PEDESTRIAN AND  
CYCLEWAY FACILITY**

Title:  
**TYPICAL  
BUS LAY-BY  
PAVEMANT CONSTRUCTION  
DETAIL**

|                  |                                |
|------------------|--------------------------------|
| Drawn: SS        | Checked: AB                    |
| Designed: CR     | Approved: NH                   |
| Date: 11/04/2016 | Scale: N.T.S. A3 Sheet: 1 OF 1 |
| Project Number:  | Drawing Number: Revision:      |

70019782 0701 -

File Name: \\me.wspgroup.com\IN Projects\7011684-70019782-3513847-Llanrwst Cycleway - NMTWRAE Models and Drawings\Highways\SharedDrawings\Working\70019782-1101-1102.dwg  
Login: Sharma, Sunil  
Plot Date: 15/04/2016 18:55:55

|                |          |          |   |
|----------------|----------|----------|---|
| Project Number | 70019782 | Revision | - |
| Drawing Number | 1101     |          |   |



**NOTES:**

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- DO NOT SCALE FROM THIS DRAWING.
- QUADRANT KERBS SHOULD BE USED WHERE NECESSARY TO FORM THE CORNER RADII OF TRAFFIC ISLANDS.
- ALL INTERFACES WITH EXISTING FOOTWAY SHOULD BE SAW CUT JOINTS AND SEALED.
- ALL KERBS, CHANNELS AND EDGINGS SHALL BE IN ACCORDANCE WITH RELEVANT SECTIONS OF BS EN 1340.
- FOR CONSTRUCTION DETAILS REFER TO DRAWING 70019782-1103 & 70019782-1104.

**KEY:**  
**KERBING TYPES:**

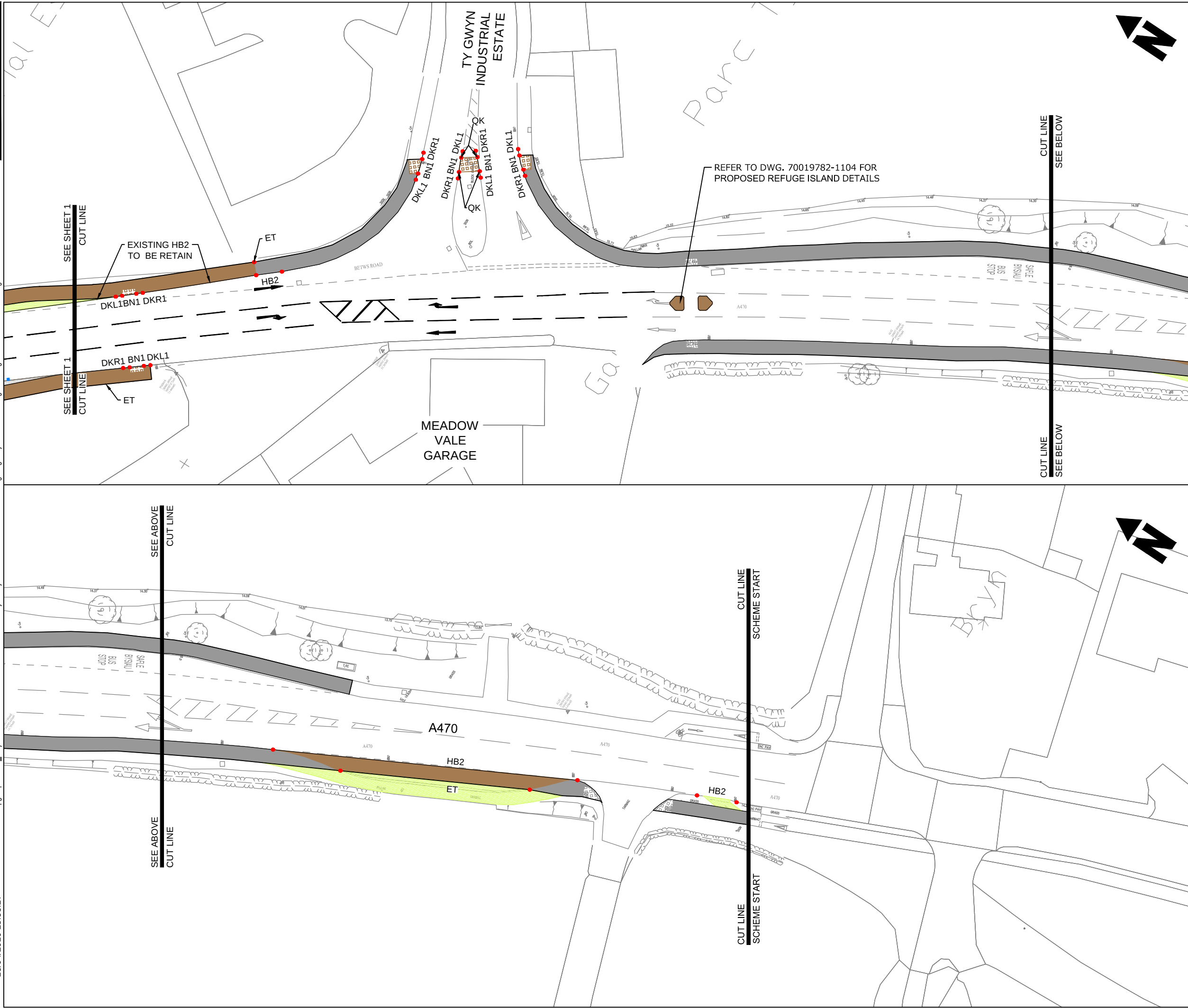
- DKL1 225/150 x 125 x 914mm (LEFT) DROPPER KERB LAID WITH 125mm KERB FACE TO 6mm UPSTAND
- DKR1 225/150 x 125 x 914mm (RIGHT) DROPPER KERB LAID WITH 125mm KERB FACE TO 6mm UPSTAND
- HB2 225 x 125 x 914mm HALF-BATTERED KERB LAID WITH 125mm KERB FACE
- BN1 150 x 125 x 914mm BULLNOSE KERB LAID WITH 6mm UPSTAND
- BN2 225 x 125 x 914mm BULLNOSE KERB LAID WITH 25mm UPSTAND
- ET1 200 x 50 x 914mm FLAT TOP EDGING KERB
- KK 350 x 500 x 1000mm KASEEL KERB LAID WITH 2200mm UPSTAND
- QK 305 x 255mm QUADRANT KERB LAID WITH 125mm UPSTAND

**FOOTWAYS**

- PROPOSED FOOTWAY CONSTRUCTION
- EXISTING FOOTWAY SURFACING
- PROPOSED VERGE CONSTRUCTION
- PROPOSED CARRIAGEWAY CONSTRUCTION
- PROPOSED TACTILE PAVING (BUFF)
- PROPOSED FOOTWAY / VEHICLE CROSSING
- PROPOSED FOOTWAY SURFACING
- PROPOSED EARTHWORK (SLOPE OF 1:3)
- PROPOSED REFUGE ISLAND CONSTRUCTION

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| Rev                                                                                       | Date         | Description          | By            | Chk         | App |
|-------------------------------------------------------------------------------------------|--------------|----------------------|---------------|-------------|-----|
| <b>TENDER DRAWING</b>                                                                     |              |                      |               |             |     |
| <br>1 Capital Quarter,<br>Tyndall Street,<br>Cardiff, CF10 4BZ<br>Tel: 44-(0)29-2076-9200 |              |                      |               |             |     |
| Client: <b>NORTH &amp; MID WALES TRUNK ROAD AGENT</b>                                     |              |                      |               |             |     |
| Site/Project: <b>A470 LLANRWST PEDESTRIAN AND CYCLEWAY FACILITY</b>                       |              |                      |               |             |     |
| Title: <b>KERBING AND SURFACE FINISH SHEET 1 OF 2</b>                                     |              |                      |               |             |     |
| Drawn: SS                                                                                 |              | Checked: AB          |               |             |     |
| Designed: CR                                                                              |              | Approved: NH         |               |             |     |
| Date: 11/04/2016                                                                          | Scale: 1:500 | A3                   | Sheet: 1 OF 2 |             |     |
| Project Number: 70019782                                                                  |              | Drawing Number: 1101 |               | Revision: - |     |
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NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.

2. DO NOT SCALE FROM THIS DRAWING.

3. QUADRANT KERBS SHOULD BE USED WHERE NECESSARY TO FORM THE CORNER RADII OF TRAFFIC ISLANDS.

4. ALL INTERFACES WITH EXISTING FOOTWAY SHOULD BE SAW CUT JOINTS AND SEALED.

5. ALL KERBS, CHANNELS AND EDGINGS SHALL BE IN ACCORDANCE WITH RELEVANT SECTIONS OF BS EN 1340.

6. FOR CONSTRUCTION DETAILS REFER TO DRAWING 70019782-1103 & 70019782-1104.

KEY:

KERBING TYPES:

DKL1

225/150 x 125 x 914mm (LEFT) DROPPER KERB LAID WITH 125mm KERB FACE TO 6mm UPSTAND

DKR1

225/150 x 125 x 914mm (RIGHT) DROPPER KERB LAID WITH 125mm KERB FACE TO 6mm UPSTAND

HB2

225 x 125 x 914mm HALF-BATTERED KERB LAID WITH 125mm KERB FACE

BN1

150 x 125 x 914mm BULLNOSE KERB LAID WITH 6mm UPSTAND

BN2

225 x 125 x 914mm BULLNOSE KERB LAID WITH 25mm UPSTAND

ET1

200 x 50 x 914mm FLAT TOP EDGING KERB

KK

350 x 500 x 1000mm KASEEL KERB LAID WITH 2200mm UPSTAND

QK

305 x 255mm QUADRANT KERB LAID WITH 125mm UPSTAND

FOOTWAYS

PROPOSED FOOTWAY CONSTRUCTION

EXISTING FOOTWAY SURFACING

PROPOSED VERGE CONSTRUCTION

PROPOSED CARRIAGEWAY CONSTRUCTION

PROPOSED TACTILE PAVING (BUFF)

PROPOSED FOOTWAY / VEHICLE CROSSING

PROPOSED FOOTWAY SURFACING

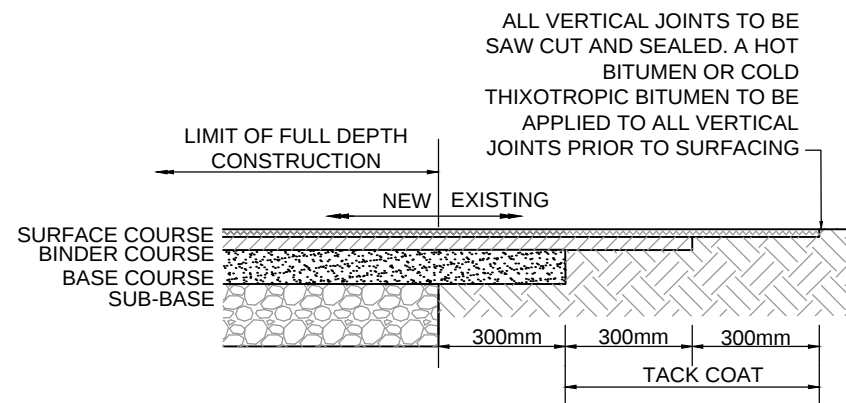
PROPOSED EARTHWORK (SLOPE OF 1:3)

PROPOSED REFUGE ISLAND CONSTRUCTION

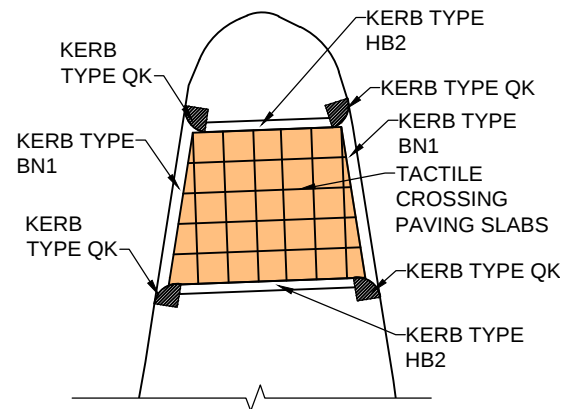
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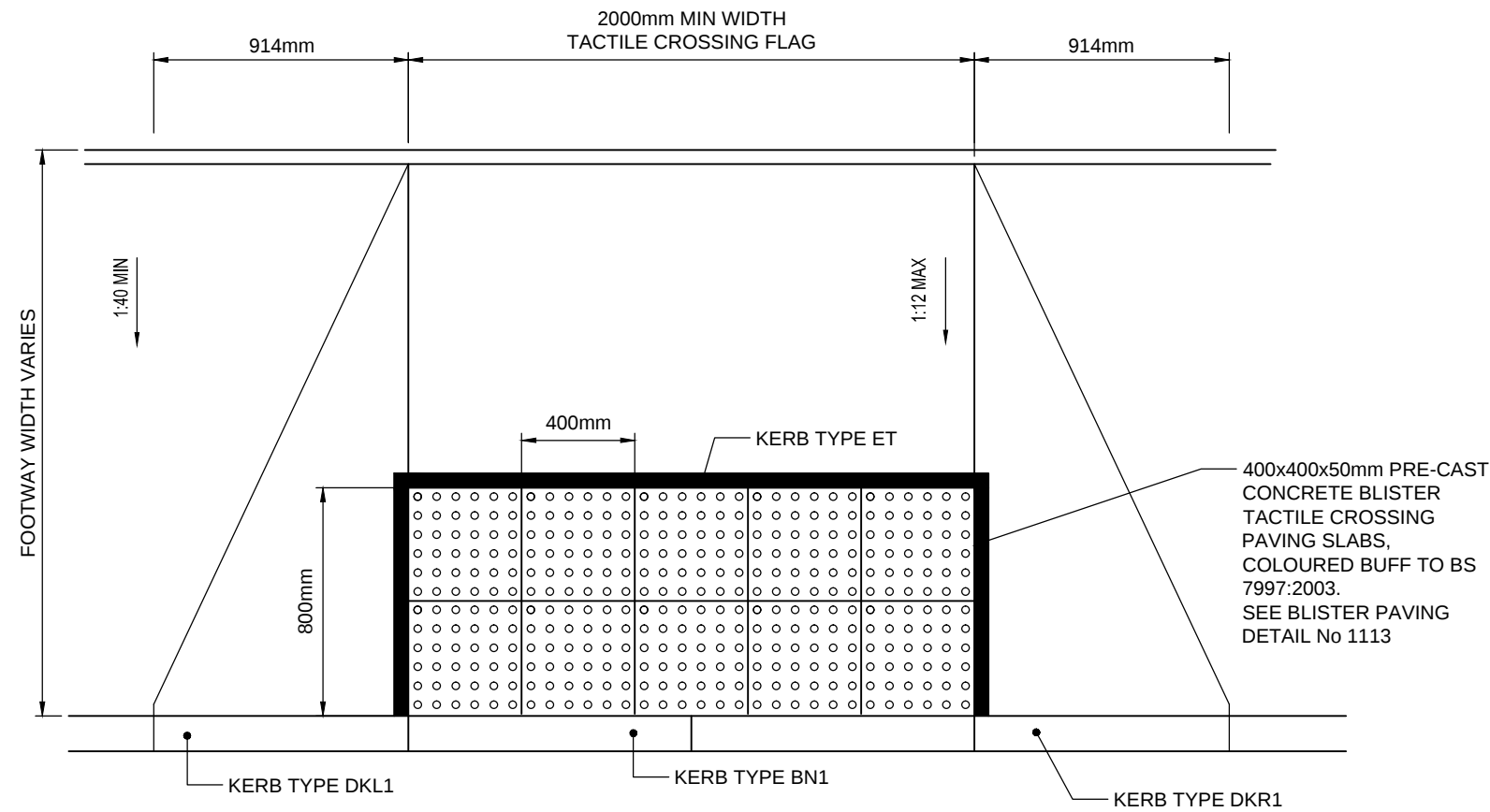
| Rev                                                                                                                                          | Date         | Description          | By            | Chk         | App |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------|---------------|-------------|-----|
| TENDER DRAWING                                                                                                                               |              |                      |               |             |     |
| <div><div></div><div></div></div> <div>1 Capital Quarter,<br/>Tyndall Street,<br/>Cardiff, CF10 4BZ</div> <div>Tel: 44-(0)29-2076-9200</div> |              |                      |               |             |     |
| Client:<br>NORTH & MID<br>WALES TRUNK ROAD AGENT                                                                                             |              |                      |               |             |     |
| Site/Project:<br>A470 LLANRWST<br>PEDESTRIAN AND<br>CYCLEWAY FACILITY                                                                        |              |                      |               |             |     |
| Title:<br>KERBING AND<br>SURFACE FINISH<br>SHEET 2 OF 2                                                                                      |              |                      |               |             |     |
| Drawn: SS                                                                                                                                    |              | Checked: AB          |               |             |     |
| Designed: CR                                                                                                                                 |              | Approved: NH         |               |             |     |
| Date: 11/04/2016                                                                                                                             | Scale: 1:500 | A3                   | Sheet: 2 OF 2 |             |     |
| Project Number: 70019782                                                                                                                     |              | Drawing Number: 1102 |               | Revision: - |     |
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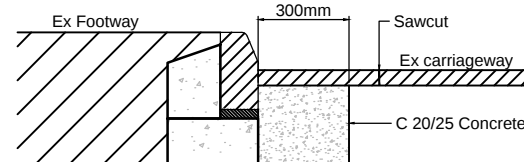
TIE-IN TO EXISTING CARRIAGEWAY AND FOOTWAY  
DETAIL-B



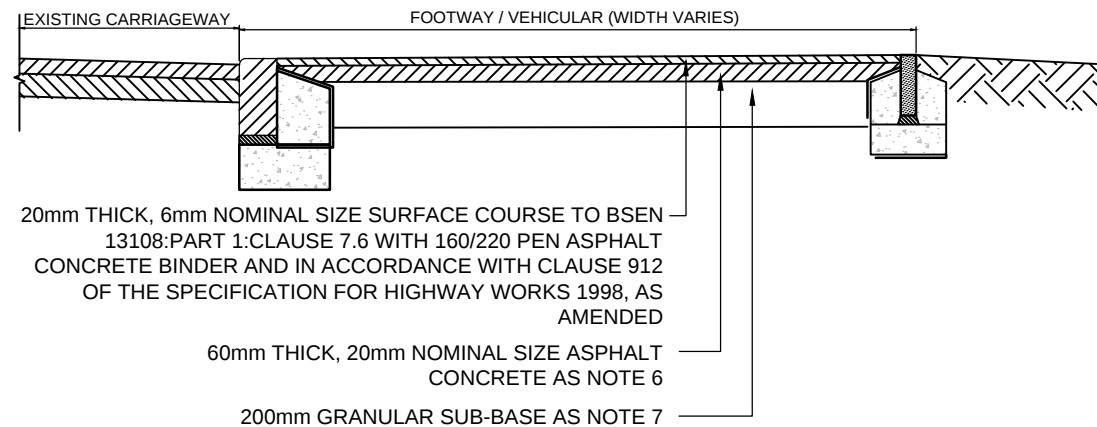
TYPICAL CONSTRUCTION  
DETAILS AT ISLAND  
CROSSING AT TYGWYN  
INDUSTRIAL ESTATE



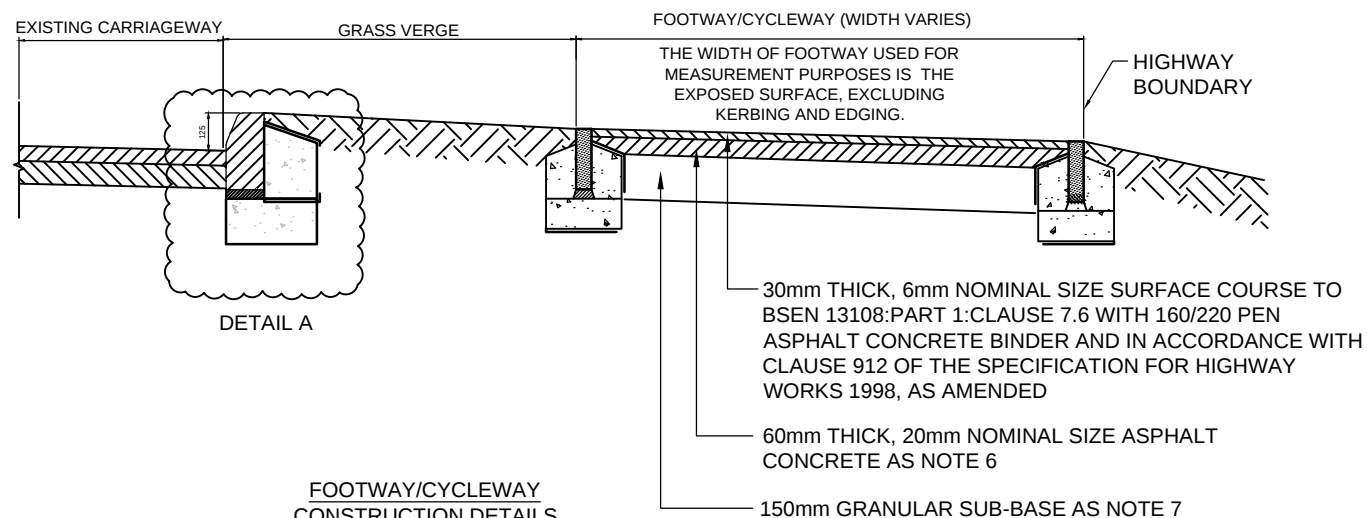
PLAN  
UNCONTROLLED TACTILE CROSSING POINT DETAILS  
SCALE 1:25



TYPICAL KERBLINE  
REINSTATEMENT  
DETAIL A



### FOOTWAY VEHICULAR CROSSING DETAILS



## FOOTWAY/CYCLEWAY CONSTRUCTION DETAILS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. DO NOT SCALE FROM THIS DRAWING.
3. REFER TO 70019782-1101 AND 1102 FOR KERBING & FOOTWAY DETAILS.
4. REFER TO 70019782-1104 FOR ALL KERBING DETAILS.
5. MINIMUM OF 6mm UPSTAND AT DROPPED KERBS TO ALLOW FOR DRAINAGE.
6. BINDER COURSE TO BE ASPHALT CONCRETE TO BSEN13108: PART 1: CLAUSE 6.5 WITH 100/150 ASPHALT CONCRETE BINDER AND IN ACCORDING WITH CLAUSE 906 OF THE SPECIFICATION FOR HIGHWAY WORKS 1987, AS AMENDED.
7. SUB-BASE TO BE AS GRANULAR TYPE 1 TO TABLE 8/2: CLAUSE 803 OF THE SPECIFICATION FOR HIGHWAY WORKS 1987, AS AMENDED.

| Rev | Date | Description | By | Chk | App |
|-----|------|-------------|----|-----|-----|
|-----|------|-------------|----|-----|-----|

## TENDER DRAWING



1 Capital Quarter,  
Tyndall Street,  
Cardiff, CF10 4BZ

Tel: 44-(0)29-2076-9200

Client:

NORTH & MID  
WALES TRUNK ROAD AGENT

Site/Project:

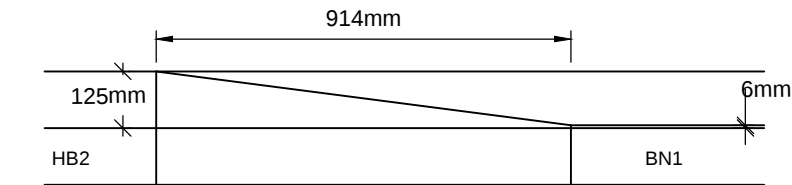
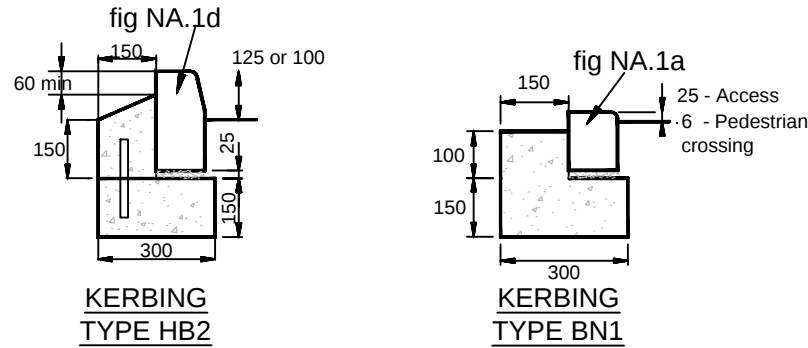
# A470 LLANRWST PEDESTRIAN AND CYCLEWAY FACILITY

Title:

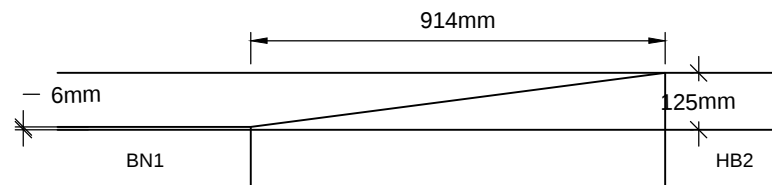
TYPICAL  
CONSTRUCTION  
DETAILS  
SHEET 1 OF 2

|                  |               |                 |               |
|------------------|---------------|-----------------|---------------|
| Drawn: SS        |               | Checked: AB     |               |
| Designed: CR     |               | Approved: NH    |               |
| Date: 11/04/2016 | Scale: N.T.S. | A3              | Sheet: 1 OF 2 |
| Project Number:  |               | Drawing Number: |               |
| 70019782         |               | 1103            |               |
|                  |               | Revision:       |               |
|                  |               | -               |               |

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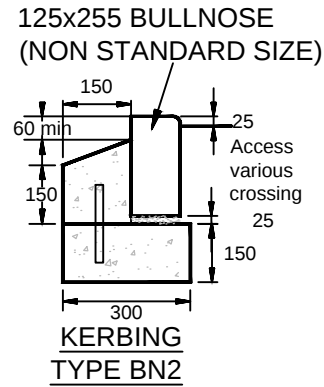


**KERB TYPE DKL1**

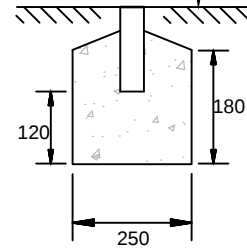


**KERB TYPE DKR1**

## KERBING

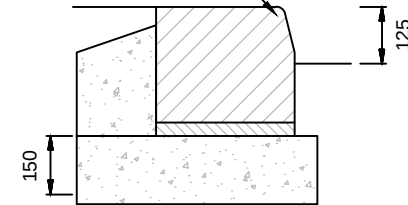


Type ET1 (50x150)  
Fig NA.3b

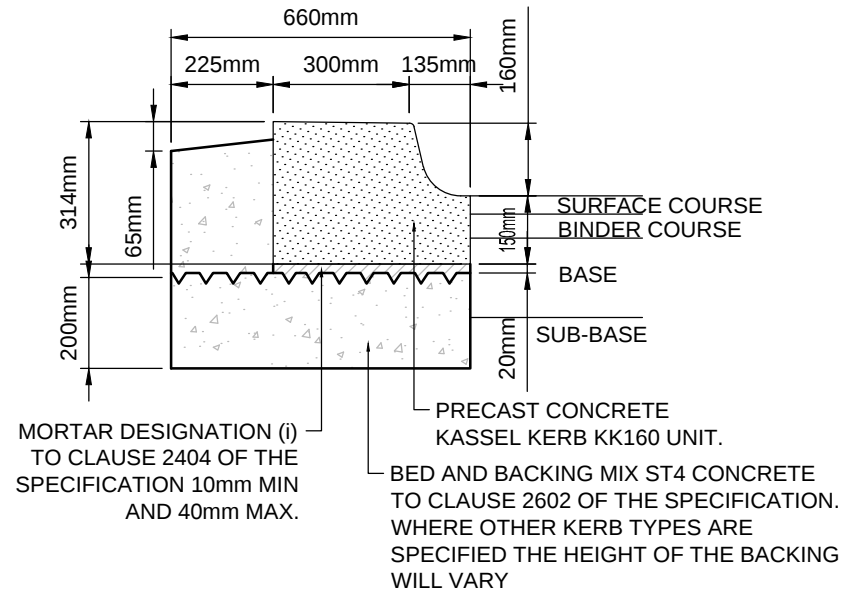


**EDGING TYPE ET1**

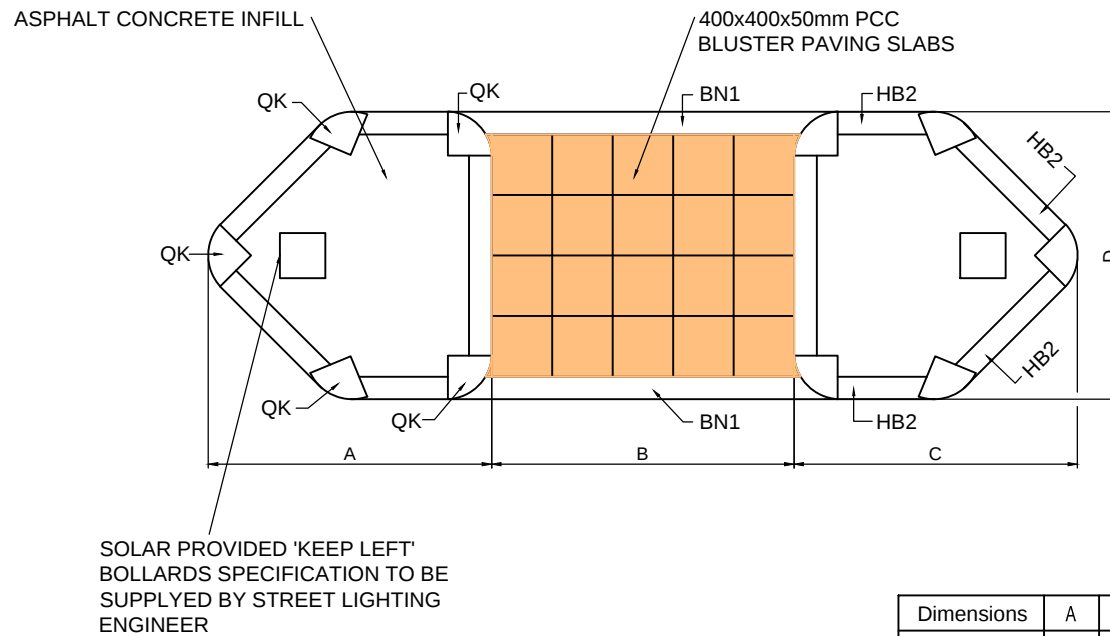
305x255 QUADRANT PRECAST CONCRETE KERB



**QUADRANT KERB TYPE QK**



**KASSEL KERB DETAIL TYPE KK**



**PEDESTRIAN ISLAND REFUGE**

| Dimensions | A    | B    | C    | D    |
|------------|------|------|------|------|
| mm         | 1500 | 2000 | 1500 | 2000 |

- NOTES
- ALL DIMENSIONS ARE IN MILLIMETRES.
  - UNLESS STATED OTHERWISE IN THE CONTRACT, PRECAST CONCRETE KERBS, CHANNEL, EDGINGS AND QUADRANTS SHALL COMPLY WITH BSEN1340:2003 AND CLAUSE 1101 OF THE SPECIFICATION FOR HIGHWAY WORKS AND APPENDIX 11/1 TO THE SPECIFICATION.
  - PROFILE TYPE AND FIGURE REFERENCES ARE IN ACCORDANCE WITH BS7263:PART 3:2001 AND BSEN1340:2003
  - MORTAR SHALL BE PORTLAND CEMENT TO TABLE 24/1, DESIGNATION (I) OF THE SPECIFICATION OF HIGHWAY WORKS 1998, AS AMENDED, 10MM MIN AND 40MM MAX, THICKNESS.
  - MIX ST1 CONCRETE SHALL BE USED FOR BEDDING AND BACKING WITH 200 LONG X 20 DIA DOWEL BARS AT 450 CENTRES (TYPICAL).
  - CHANNEL BLOCKS MUST BE LAID WITH TIGHT BUTT JOINTS AT THE ENDS WITH A 10 GAP LEFT BETWEEN THE KERBS AND CHANNEL BLOCK WHEN LAID TO ALLOW THE PLACING OF A MORTAR GROUT.
  - TYPE G KERBING IS SUITABLE FOR LIGHTLY TRAFFICKED PRIVATE ACCESSES AND PEDESTRIAN CROSSINGS. PRECAST CONCRETE KERBS, CHANNELS, EDGINGS AND QUADRANTS SHALL BE LAID IN ACCORDANCE WITH BS 7533-3. CODE OF PRACTICE FOR LAYING.
  - CONCRETE INFILL TO BE MIX ST2, 150mm THICK ON SUB-BASE TYPE 1 150 THICK. TAMPED FINISH WITH 150mm BORDER FLOAT FINISHED.

| Rev | Date | Description | By | Chk | App |
|-----|------|-------------|----|-----|-----|
|-----|------|-------------|----|-----|-----|

## TENDER DRAWING



1 Capital Quarter,  
Tyndall Street,  
Cardiff, CF10 4BZ

Tel: 44-(0)29-2076-9200

Client:

**NORTH & MID WALES TRUNK ROAD AGENT**

Site/Project:

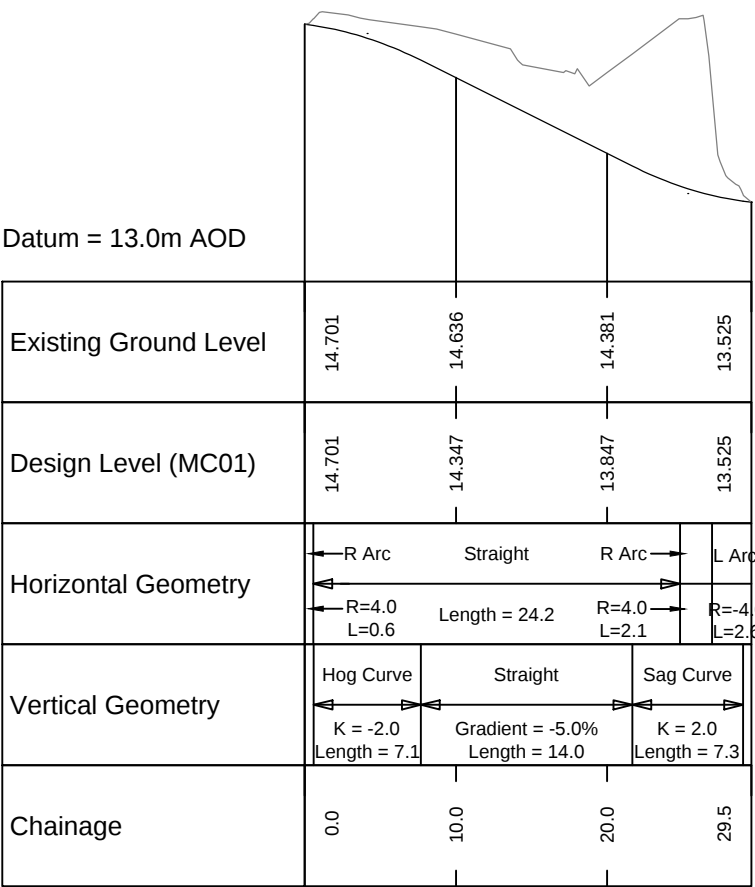
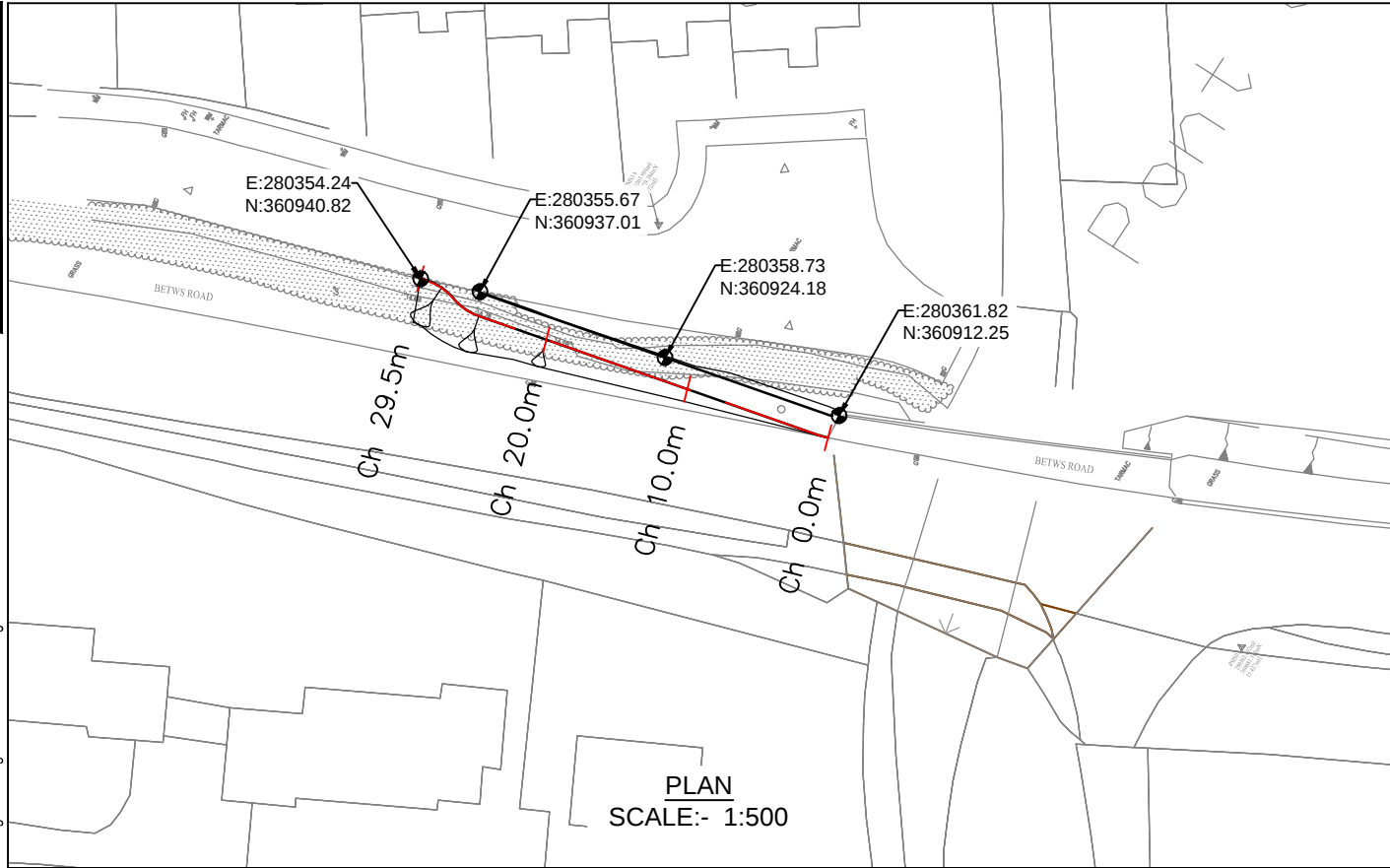
**A470 LLANRWST PEDESTRIAN AND CYCLEWAY FACILITY**

Title:

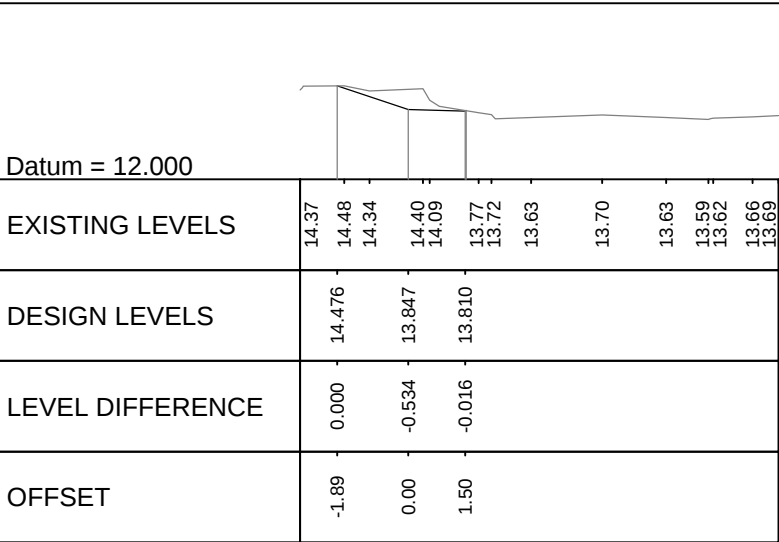
**TYPICAL CONSTRUCTION DETAILS SHEET 2 OF 2**

|                          |                                |
|--------------------------|--------------------------------|
| Drawn: SS                | Checked: AB                    |
| Designed: CR             | Approved: NH                   |
| Date: 11/04/2016         | Scale: N.T.S. A3 Sheet: 2 OF 2 |
| Project Number: 70019782 | Drawing Number: 1104           |
|                          | Revision: -                    |

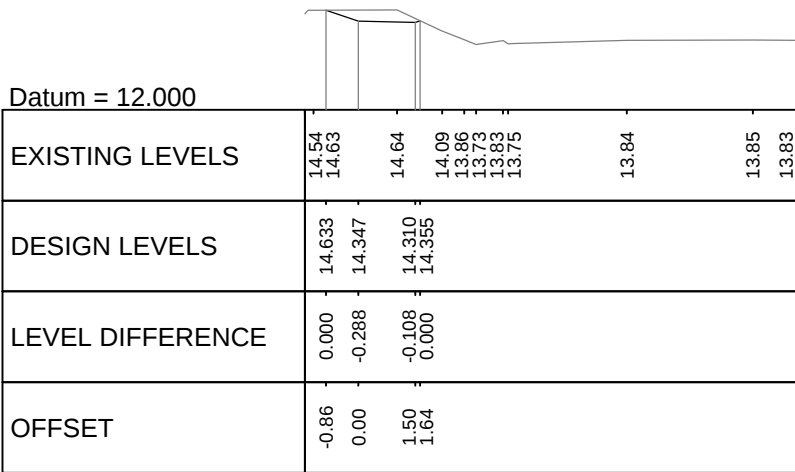
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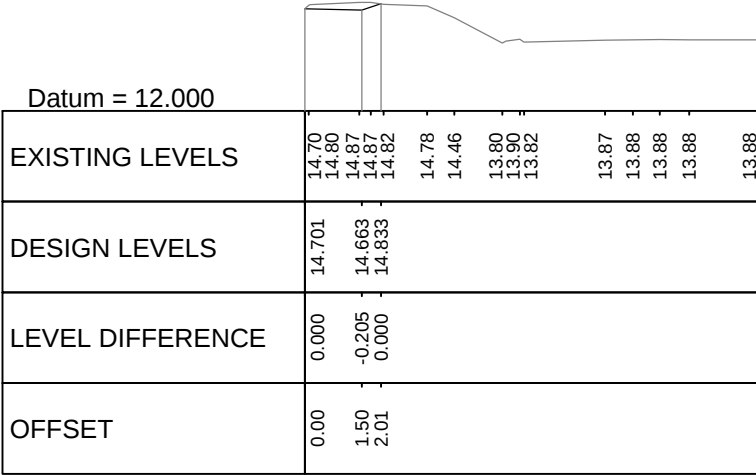
LONGITUDINAL SECTION  
SCALE:- 1:500 H 1:100 V



Chainage 20.000m



Chainage 10.000m



Chainage 0.000m

CROSS-SECTION  
SCALE:- 1:200 H 1:100 V

- NOTES:
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
  - DO NOT SCALE FROM THIS DRAWING.

- PROPOSED LEVEL  
— EXISTING LEVEL  
● SITTING OUT POINT

| Rev | Date | Description | By | Chk | App |
|-----|------|-------------|----|-----|-----|
|-----|------|-------------|----|-----|-----|

TENDER DRAWING

1 Capital Quarter,  
Tyndall Street,  
Cardiff, CF10 4BZ

Tel: 44-(0)29-2076-9200

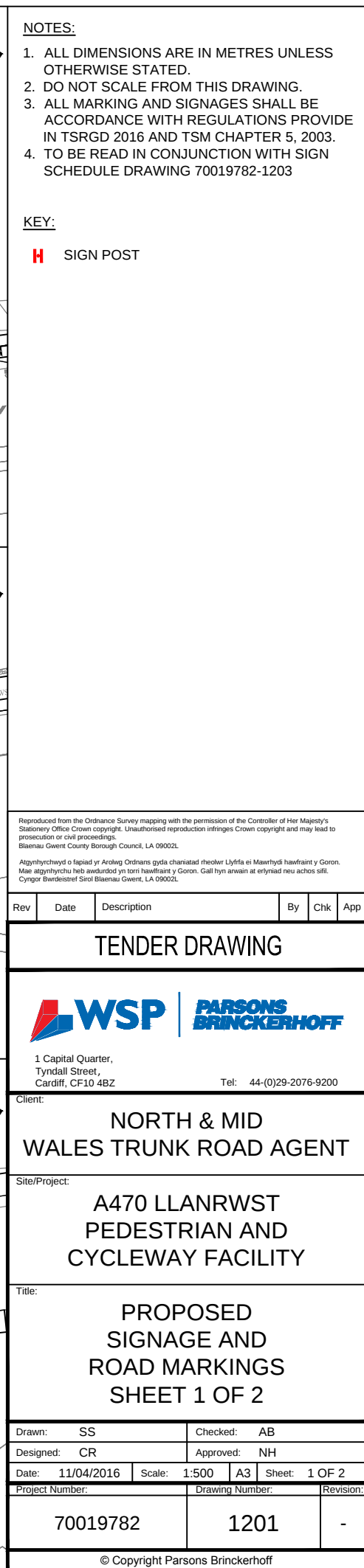
Client:  
**NORTH & MID WALES TRUNK ROAD AGENT**

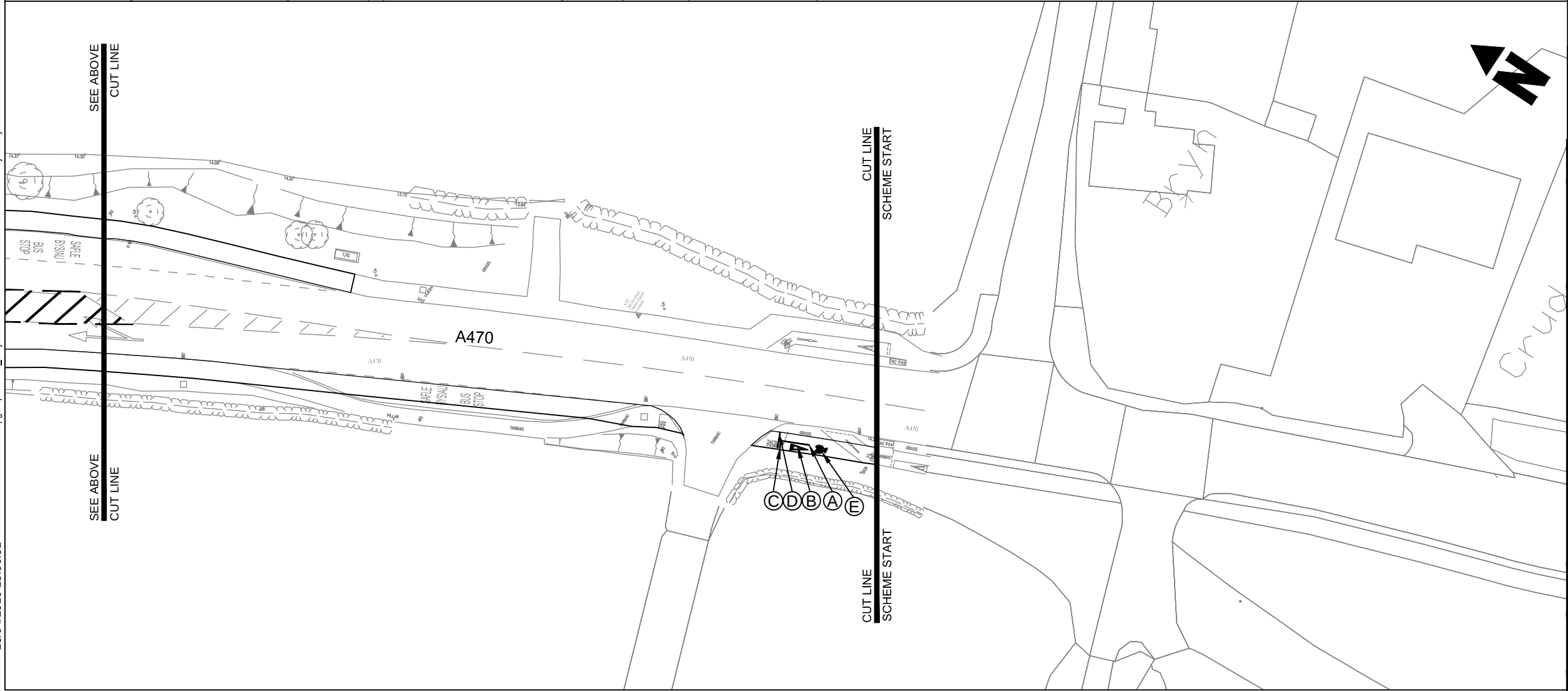
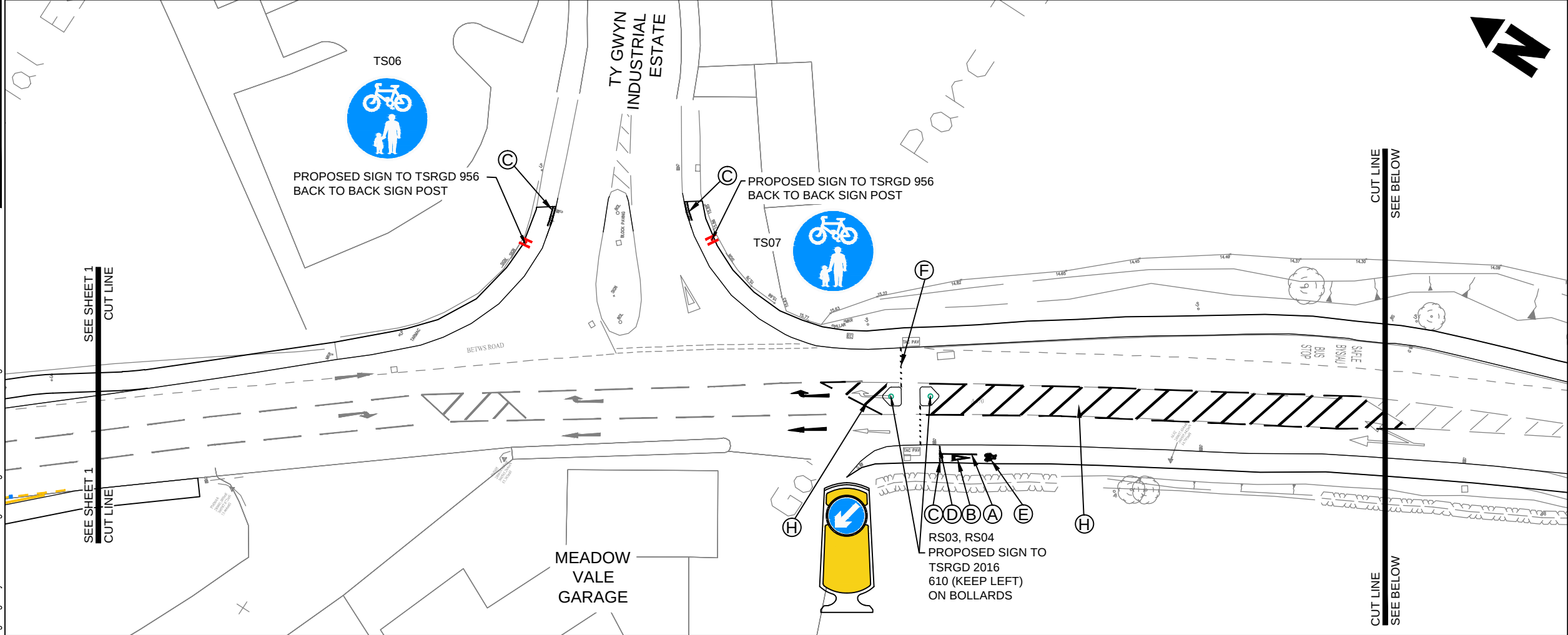
Site/Project:  
**A470 LLANRWST PEDESTRIAN AND CYCLEWAY FACILITY**

Title:  
**RAMP PLAN, PROFILE AND CROSS-SECTION**

|                          |                 |                      |               |
|--------------------------|-----------------|----------------------|---------------|
| Drawn: SS                |                 | Checked: AB          |               |
| Designed: CR             |                 | Approved: NH         |               |
| Date: 11/04/2016         | Scale: AS SHOWN | A3                   | Sheet: 1 OF 1 |
| Project Number: 70019782 |                 | Drawing Number: 1105 | Revision: -   |

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NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.

2. DO NOT SCALE FROM THIS DRAWING.

3. ALL MARKING AND SIGNAGES SHALL BE ACCORDANCE WITH REGULATIONS PROVIDE IN TSRGD 2016 AND TSM CHAPTER 5, 2003.

4. TO BE READ IN CONJUNCTION WITH SIGN SCHEDULE DRAWING 70019782-1203

KEY:

H

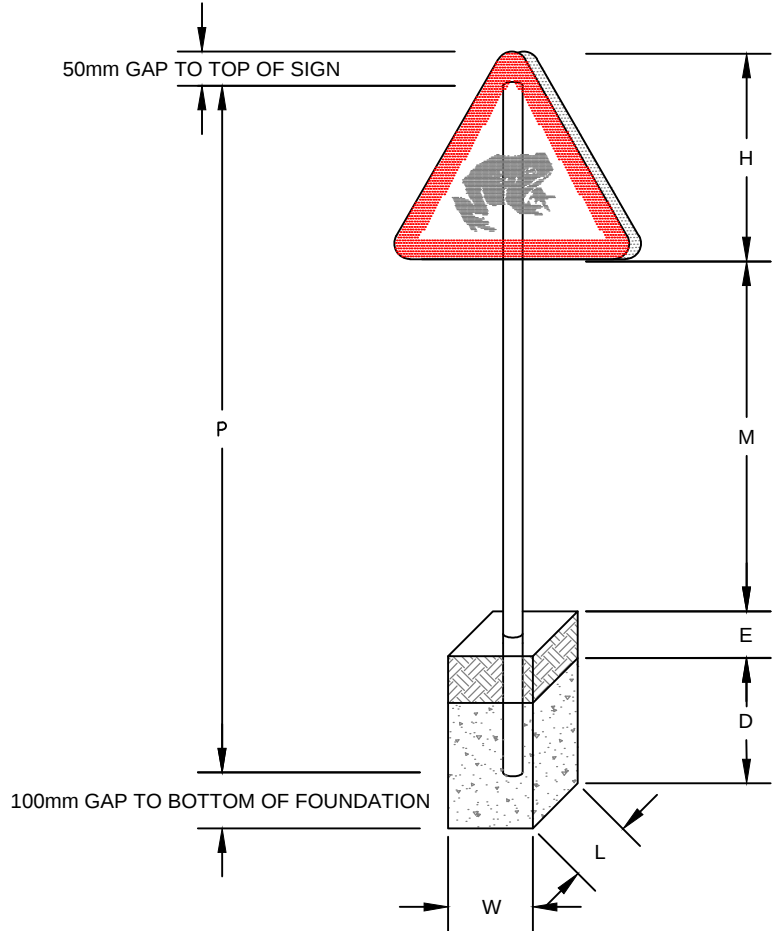
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Cynnyg Bwrdeistref Sirol Blanaau Gwent, LA 09002L

| Rev                                                                                                                                                                                         | Date         | Description          | By            | Chk         | App |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------|---------------|-------------|-----|
| TENDER DRAWING                                                                                                                                                                              |              |                      |               |             |     |
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| Client: NORTH & MID WALES TRUNK ROAD AGENT                                                                                                                                                  |              |                      |               |             |     |
| Site/Project: A470 LLANRWST PEDESTRIAN AND CYCLEWAY FACILITY                                                                                                                                |              |                      |               |             |     |
| Title: PROPOSED SIGNAGE AND ROAD MARKINGS SHEET 2 OF 2                                                                                                                                      |              |                      |               |             |     |
| Drawn: SS                                                                                                                                                                                   |              | Checked: AB          |               |             |     |
| Designed: CR                                                                                                                                                                                |              | Approved: NH         |               |             |     |
| Date: 11/04/2016                                                                                                                                                                            | Scale: 1:500 | A3                   | Sheet: 2 OF 2 |             |     |
| Project Number: 70019782                                                                                                                                                                    |              | Drawing Number: 1202 |               | Revision: - |     |
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| SIGNAGE SCHEDULE |                   |      |               |            |               |             |                     |                                             |                        |                    |              |                                 |               |              |               |                    |           |             |  |
|------------------|-------------------|------|---------------|------------|---------------|-------------|---------------------|---------------------------------------------|------------------------|--------------------|--------------|---------------------------------|---------------|--------------|---------------|--------------------|-----------|-------------|--|
| SIGN REF.        | SIGN FACE DETAILS |      |               |            |               |             | POSTS               |                                             |                        |                    |              | INDIVIDUAL FOUNDATIONS PER POST |               |              |               |                    |           | SETTING OUT |  |
|                  | TSRGD DIAGRAM NO. | TYPE | X-HEIGHT (mm) | WIDTH (mm) | HEIGHT/H (mm) | AREA (sq.m) | NUMBER OF POSTS     | POST SIZE (mm)                              | MOUNTING HEIGHT/M (mm) | POST LENGTH/P (mm) | ILLUMINATED? | WIDTH/W (mm)                    | LENGTH/L (mm) | DEPTH/D (mm) | VOLUME (cu.m) | EARTH COVER/E (mm) | EASTINGS  | NORTHINGS   |  |
| TS01             | 956               | Reg. | 100           | 600        | 600           | 0.28        | 1<br>(BACK TO BACK) | 60.3 x 3.2 CHS                              | 2300                   | 3645               | No           | 800                             | 800           | 600          | 0.48          | 100                | 280355.95 | 360929.30   |  |
|                  | 965               | Reg. | 100           | 485        | 645           | 0.31        |                     |                                             |                        |                    |              |                                 |               |              |               |                    |           |             |  |
| TS02             | 956               | Reg. | 100           | 600        | 600           | 0.28        | 1<br>(BACK TO BACK) | 60.3 x 3.2 CHS                              | 2300                   | 3600               | No           | 750                             | 750           | 600          | 0.42          | 100                | 280417.57 | 360817.43   |  |
|                  | 956               | Reg. | 100           | 600        | 600           | 0.28        |                     |                                             |                        |                    |              |                                 |               |              |               |                    |           |             |  |
| TS03             | 956               | Reg. | 100           | 600        | 600           | 0.28        | 1<br>(BACK TO BACK) | 60.3 x 3.2 CHS                              | 2300                   | 3600               | No           | 750                             | 750           | 600          | 0.42          | 100                | 280429.60 | 360803.31   |  |
|                  | 956               | Reg. | 100           | 600        | 600           | 0.28        |                     |                                             |                        |                    |              |                                 |               |              |               |                    |           |             |  |
| TS04             | 956               | Reg. | 100           | 600        | 600           | 0.28        | 1<br>(BACK TO BACK) | 60.3 x 3.2 CHS                              | 2300                   | 3600               | No           | 750                             | 750           | 600          | 0.42          | 100                | 280503.80 | 360718.91   |  |
|                  | 956               | Reg. | 100           | 600        | 600           | 0.28        |                     |                                             |                        |                    |              |                                 |               |              |               |                    |           |             |  |
| TS05             | 956               | Reg. | 100           | 600        | 600           | 0.28        | 1<br>(BACK TO BACK) | 60.3 x 3.2 CHS                              | 2300                   | 3600               | No           | 750                             | 750           | 600          | 0.42          | 100                | 280513.55 | 360707.81   |  |
|                  | 956               | Reg. | 100           | 600        | 600           | 0.28        |                     |                                             |                        |                    |              |                                 |               |              |               |                    |           |             |  |
| TS06             | 956               | Reg. | 100           | 600        | 600           | 0.28        | 1<br>(BACK TO BACK) | 60.3 x 3.2 CHS                              | 2300                   | 3600               | No           | 750                             | 750           | 600          | 0.42          | 100                | 280640.03 | 360575.90   |  |
|                  | 956               | Reg. | 100           | 600        | 600           | 0.28        |                     |                                             |                        |                    |              |                                 |               |              |               |                    |           |             |  |
| TS07             | 956               | Reg. | 100           | 600        | 600           | 0.28        | 1<br>(BACK TO BACK) | 60.3 x 3.2 CHS                              | 2300                   | 3600               | No           | 750                             | 750           | 600          | 0.42          | 100                | 280651.05 | 360559.42   |  |
|                  | 956               | Reg. | 100           | 600        | 600           | 0.28        |                     |                                             |                        |                    |              |                                 |               |              |               |                    |           |             |  |
| RS01             | 610               | Reg. | 270           | 270        | 270           | 0.06        | 1                   | REFER TO CONTRACT SPECIFICATION FOR DETAILS |                        |                    |              |                                 |               |              |               |                    | 280535.99 | 360676.02   |  |
| RS02             | 610               | Reg. | 270           | 270        | 270           | 0.06        | 1                   | REFER TO CONTRACT SPECIFICATION FOR DETAILS |                        |                    |              |                                 |               |              |               |                    | 280538.86 | 360671.66   |  |
| RS03             | 610               | Reg. | 270           | 270        | 270           | 0.06        | 1                   | REFER TO CONTRACT SPECIFICATION FOR DETAILS |                        |                    |              |                                 |               |              |               |                    | 280647.40 | 360534.33   |  |
| RS04             | 610               | Reg. | 270           | 270        | 270           | 0.06        | 1                   | REFER TO CONTRACT SPECIFICATION FOR DETAILS |                        |                    |              |                                 |               |              |               |                    | 280649.70 | 360530.83   |  |



ROAD MARKING SCHEDULE

- (A)

1004 - WHITE, 100mm WIDE, 4000mm LONG, 2000mm GAP.
- (B)

1023 - WHITE, 625mm WIDE, 1875mm LONG APPROACH TRIANGLE SYMBOL.
- (C)

1003 - WHITE, 100mm WIDE, 300mm LONG, 150mm GAP, 250mm CENTERS (FOR PEDAL CYCLE).
- (D)

1009 - WHITE, 100mm WIDE, 300mm LONG, 150mm GAP (FOR PEDAL CYCLE)
- (E)

1057 - WHITE, 1215mm CYCLE SYMBOL.
- (F)

1055 - WHITE, 100mm LONG 100mm WIDE, 500mm GAP.
- (G)

1038 - WHITE, 4M LONG, RIGHT ARROW AND AHEAD ARROW.
- (H)

1040.2 - WHITE, LONGITUDINAL LINES: 4m MARK, 2m GAP, 100mm THICK. HATCHES LINES: CONTINUOUS, 3000mm SPACING, 150mm THICK.
- (I)

1025 - YELLOW, 100mm WIDE, 1000mm LONG, 1000mm GAP.
- (J)

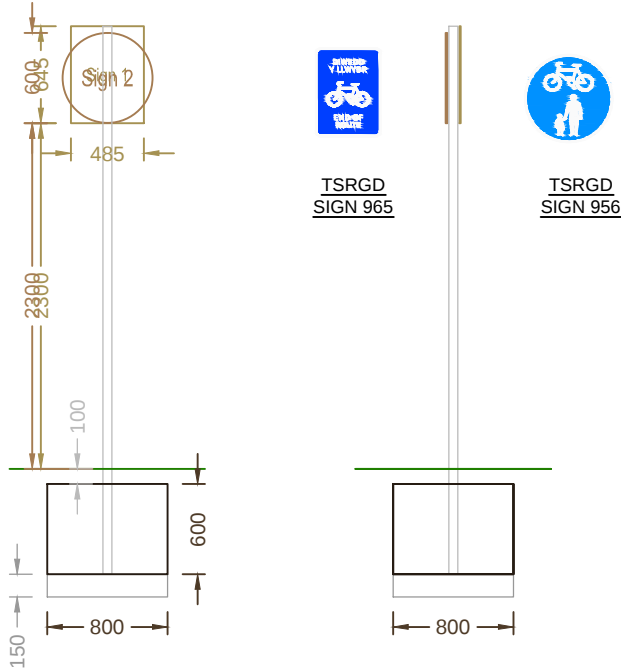
1025-1S - YELLOW, 200mm WIDE CONTINUOUS.
- (K)

1025-V - YELLOW, 'SAFLE BYSIAU BUS STOP' TEXT SIZE 1600mm, 1000mm GAP.
- (L)

1039 - White, 8m long, Bifurcation Right arrow.

- NOTES:
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
  - DO NOT SCALE FROM THIS DRAWING.
  - TO BE READ IN CONJUNCTION WITH DRAWING 70019782-1201 & 1202.
  - TSRGD DIAGRAM NUMBERS FROM THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS 2016 AND SUBSEQUENT AMENDMENTS.
  - SETTING OUT COORDINATES ARE INDICATIVE ONLY. POSITIONS AREA TO BE AGREED ON SITE WITH THE PROJECT MANAGER/SUPERVISOR.
  - SIGN PLATES ARE TO BE ERECTED NO CLOSER THAN 450MM TO THE ADJACENT CARRIAGEWAY.
  - SOIL BEARING CAPACITY FOR POST FOUNDATION SHOULD BE 100 kpa.

|                                                                                                                                                                                                                                               |               |             |                      |           |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------------|-----------|-----|
| Rev                                                                                                                                                                                                                                           | Date          | Description | By                   | Chk       | App |
| TENDER DRAWING                                                                                                                                                                                                                                |               |             |                      |           |     |
| <div><div><div><div><div></div><div>WSP</div></div><div><div>PARSONS</div><div>BRINCKERHOFF</div></div></div><div><div>1 Capital Quarter,<br/>Tyndall Street,<br/>Cardiff, CF10 4BZ</div><div>Tel: 44-(0)29-2076-9200</div></div></div></div> |               |             |                      |           |     |
| Client: NORTH & MID WALES TRUNK ROAD AGENT                                                                                                                                                                                                    |               |             |                      |           |     |
| Site/Project: A470 LLANRWST PEDESTRIAN AND CYCLEWAY FACILITY                                                                                                                                                                                  |               |             |                      |           |     |
| Title: SIGNAGE AND ROAD MARKING SCHEDULE                                                                                                                                                                                                      |               |             |                      |           |     |
| Drawn: SS                                                                                                                                                                                                                                     |               |             | Checked: AB          |           |     |
| Designed: CR                                                                                                                                                                                                                                  |               |             | Approved: NH         |           |     |
| Date: 11/04/2016                                                                                                                                                                                                                              | Scale: N.T.S. | A3          | Sheet: 1 OF 1        | Revision: |     |
| Project Number: 70019782                                                                                                                                                                                                                      |               |             | Drawing Number: 1203 |           | -   |
| © Copyright Parsons Brinckerhoff                                                                                                                                                                                                              |               |             |                      |           |     |



| Signing Project | Signing Project |                        |      |            |       |
|-----------------|-----------------|------------------------|------|------------|-------|
| Sign Reference  | 965             | Width (mm)             | 485  | Background | Blue  |
| x Height        | 100.0           | Height (mm)            | 645  | Border     | White |
| Material        | Class RA2       | Area (m ) <sup>2</sup> | 0.31 | Legend     | White |
| Signing Project | Signing Project |                        |      |            |       |
| Sign Reference  | 956             | Width (mm)             | 600  | Background | Green |
| x Height        | 100.0           | Height (mm)            | 600  | Border     | White |
| Material        | Class RA2       | Area (m ) <sup>2</sup> | 0.28 | Legend     | White |

SIGN REFERENCE NO. :- TS01

Structural Calculation Details

Signs:

Reference: Sign 965  
Width: 485mm, Height: 645mm  
Shape: Rectangle  
Orientation: Facing front  
Mounted on posts: 1  
Mounting height: 2300mm

Reference: Sign 956  
Width: 600mm, Height: 600mm  
Shape: Roundel  
Orientation: Facing back  
Mounted on posts: 1  
Mounting height: 2300mm

Posts:

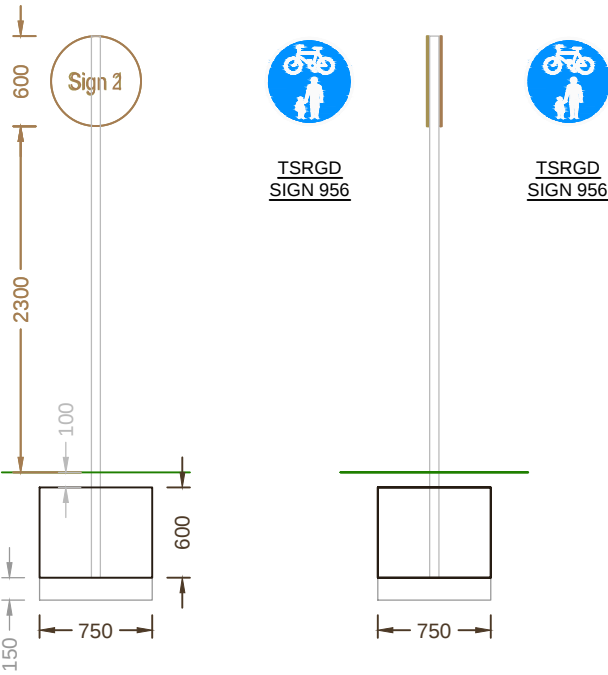
Quantity: 1  
Type: 60.3 x 3.2 CHS  
Spacing: N/A  
Post 1 Length: 3645mm

Base:

Type: Combined  
Width: 800mm  
Length: 800mm  
Depth: 600mm  
Volume: 0.48cu.m  
Earth cover: 100mm  
Blinding layer: 150mm

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. DO NOT SCALE FROM THIS DRAWING.
3. FOR SIGNAGE LOCATION AND DETAILS REFER TO DRAWING 1200 SERIES.
4. SOIL BEARING CAPACITY FOR POST FOUNDATION SHOULD BE 100 kpa.



| Signing Project | Signing Project |                        |      |            |       |
|-----------------|-----------------|------------------------|------|------------|-------|
| Sign Reference  | 956             | Width (mm)             | 600  | Background | Green |
| x Height        | 100.0           | Height (mm)            | 600  | Border     | White |
| Material        | Class RA2       | Area (m ) <sup>2</sup> | 0.28 | Legend     | White |

SIGN REFERENCE NO. :- TS02, TS03, TS04, TS05, TS06 AND TS07

Structural Calculation Details

Signs:

Reference: Sign 956  
Width: 600mm, Height: 600mm  
Shape: Roundel  
Orientation: Facing back  
Mounted on posts: 1  
Mounting height: 2300mm

Reference: Sign 956  
Width: 600mm, Height: 600mm  
Shape: Roundel  
Orientation: Facing front  
Mounted on posts: 1  
Mounting height: 2300mm

Posts:

Quantity: 1  
Type: 60.3 x 3.2 CHS  
Spacing: N/A  
Post 1 Length: 3600mm

Base:

Type: Combined  
Width: 750mm  
Length: 750mm  
Depth: 600mm  
Volume: 0.42cu.m  
Earth cover: 100mm  
Blinding layer: 150mm

| Rev | Date | Description | By | Chk | App |
|-----|------|-------------|----|-----|-----|
|-----|------|-------------|----|-----|-----|

TENDER DRAWING



1 Capital Quarter,  
Tyndall Street,  
Cardiff, CF10 4BZ

Tel: 44-(0)29-2076-9200

Client:

NORTH & MID  
WALES TRUNK ROAD AGENT

Site/Project:

A470 LLANRWST  
PEDESTRIAN AND  
CYCLEWAY FACILITY

SIGNAGE  
FOUNDATION DETAILS

|                  |                           |
|------------------|---------------------------|
| Drawn: SS        | Checked: AB               |
| Designed: CR     | Approved: NH              |
| Date: 11/04/2016 | Scale: - A3 Sheet: 1 OF 1 |

| Project Number: | Drawing Number: | Revision: |
|-----------------|-----------------|-----------|
| 70019782        | 1204            | -         |