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- REFER TO ARBORICULTURAL REPORT DOCUMENT 60509148-LDRP-00002 FOR DETAILS OF ALL RETAINED 3. TREES AND TREE PROTECTION REQUIREMENTS.
- 4. WHERE RETAINED TREES ARE LOCATED CLOSE TO A PROPOSED CUT SLOPE THEIR STABILITY AND LONG TERM VIABILITY SHOULD BE ASSESSED BY A SUITABLY QUALIFIED ARBORICULTURIST.
- REFER TO FENCING DRAWINGS 60509148-SHT-30-0000-CT-0301 TO 0308 FOR DETAILS OF HIGHWAY FENCING, 12. WHERE AREAS OF PROPOSED SOFT LANDSCAPE TREATMENT COINCIDE WITH AREAS OF ABANDONED WALLS AND ACOUSTIC BARRIERS.
- 6. REFER TO EARTHWORKS DRAWINGS 60509148-SHT-30-0000-CT-0621 TO 0627.
- 7. REFER TO ECOLOGICAL ASSESSMENT AND MITIGATION FOR DETAILS OF 'DEAD HEDGE'.

- 8.
- UNDERTAKEN WITH REGARD TO THE PRESENCE OF TREE ROOTS.
- CLEARANCE.
- INDIVIDUAL PLANTING AREAS.
- THE SURROUNDING SOIL HORIZONS, WITH THE FOLLOWING MINIMUM TOP SOIL DEPTHS SEEDED AREAS - 100 mm
- PLANTED AREAS (EXCLUDING TREES) 300 mm •
- PLANTED AREAS (INCLUDING TREES) 300 mm

EB 1 05

LE 1.1

613 m sq

EB 1 04 LE 4.2

145 lin m

EB 1 03 LE 1.6

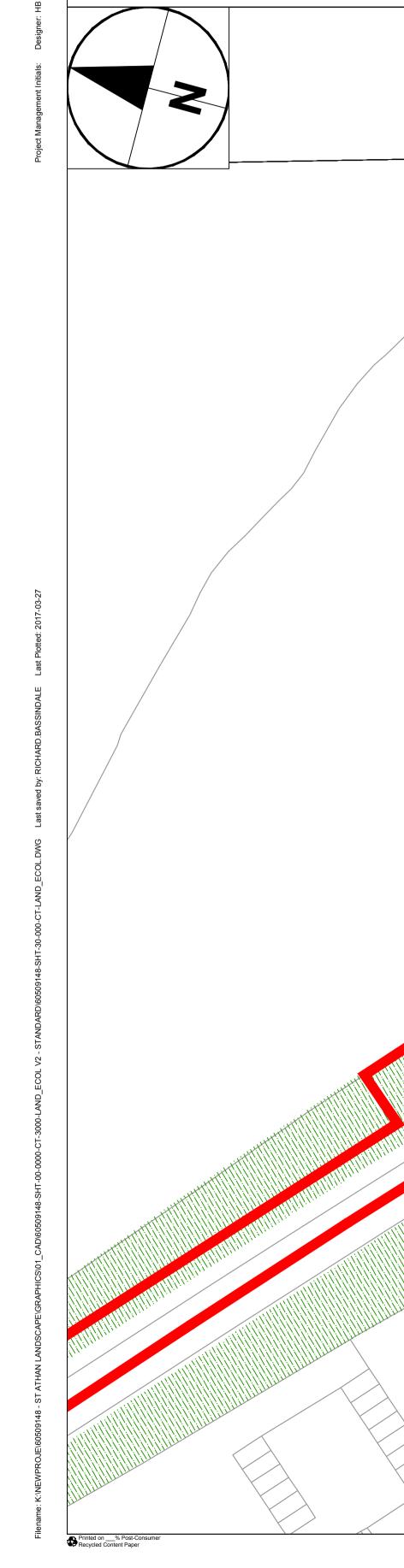
702 m sq

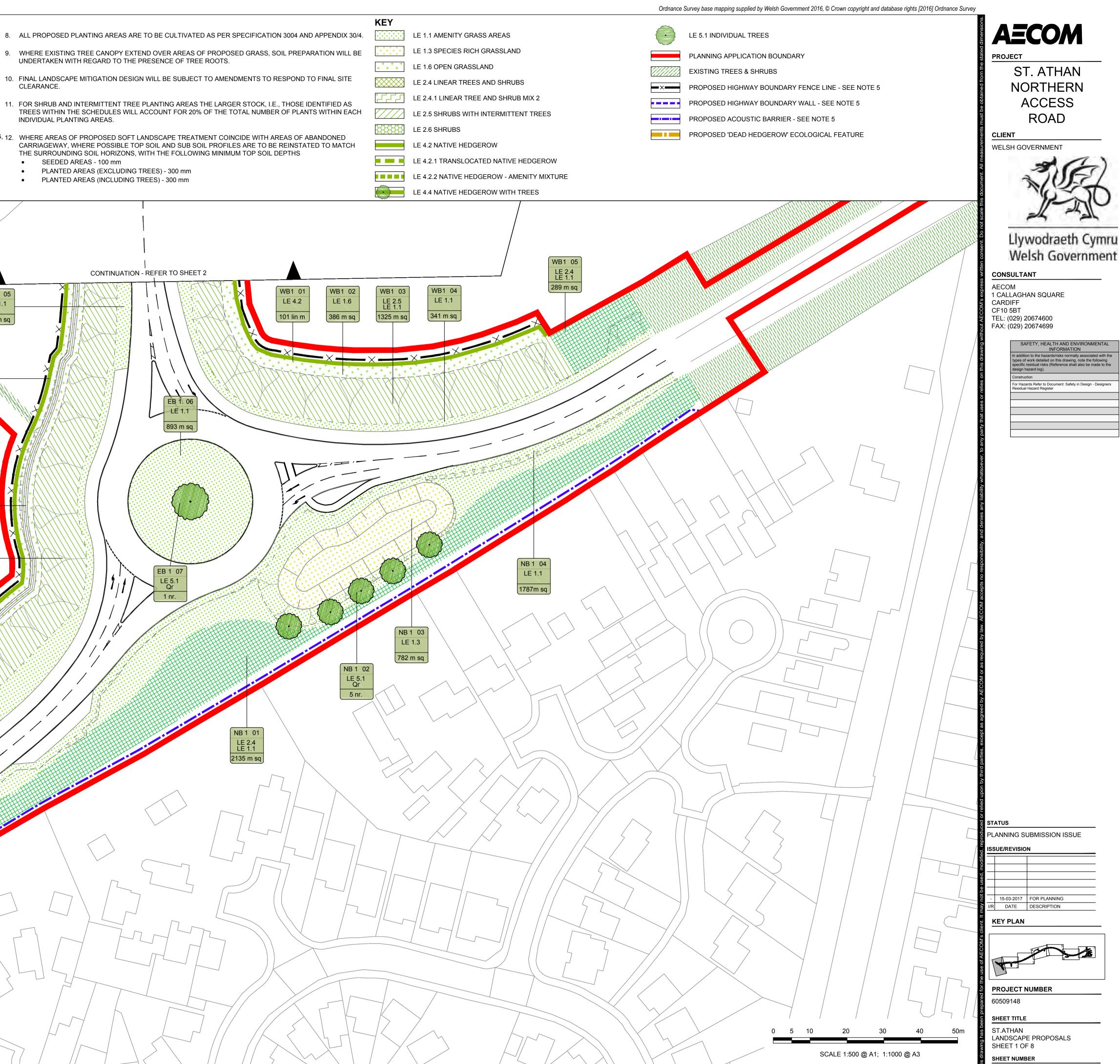
EB 1 02

LE 2.5 LE 1.1

EB 1 01

LE 2.4 LE 1.1 240 m sq 1635 m sq

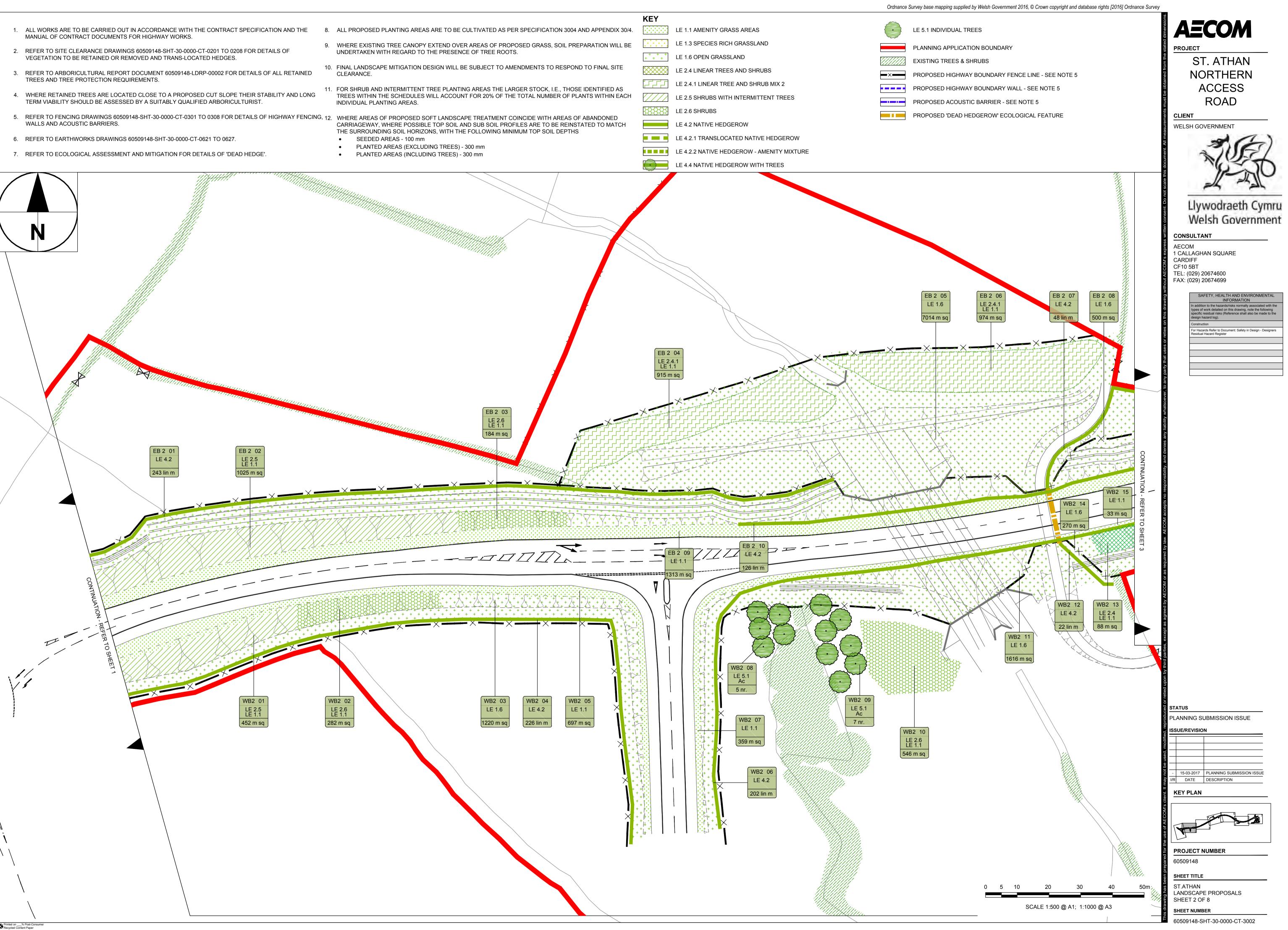




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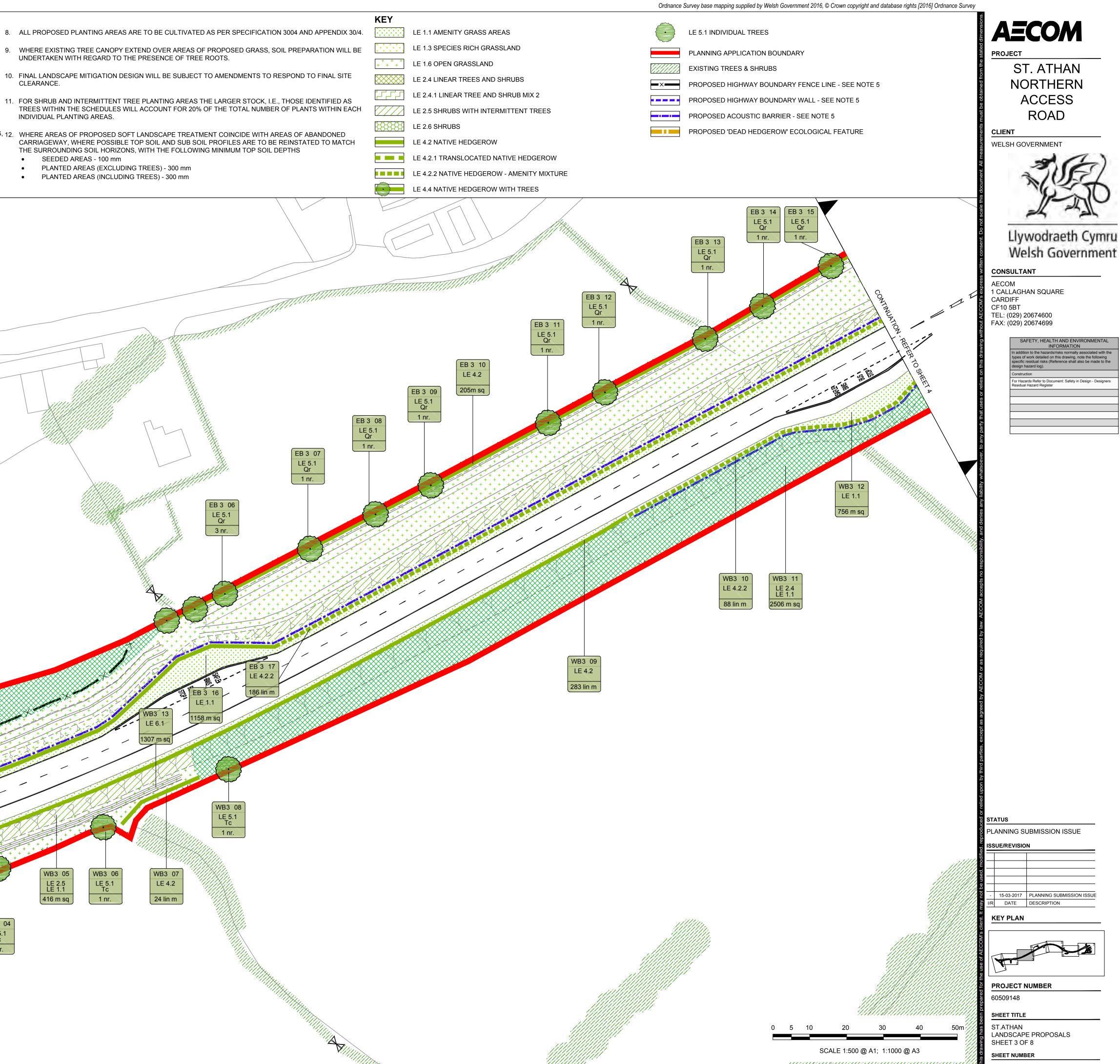
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- 2. REFER TO SITE CLEARANCE DRAWINGS 60509148-SHT-30-0000-CT-0201 TO 0208 FOR DETAILS OF VEGETATION TO BE RETAINED OR REMOVED AND TRANS-LOCATED HEDGES.
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- TERM VIABILITY SHOULD BE ASSESSED BY A SUITABLY QUALIFIED ARBORICULTURIST.
- WALLS AND ACOUSTIC BARRIERS.

- CLEARANCE.
- INDIVIDUAL PLANTING AREAS.
- •



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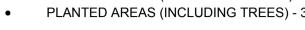
- 8.
- UNDERTAKEN WITH REGARD TO THE PRESENCE OF TREE ROOTS.
- CLEARANCE.
- INDIVIDUAL PLANTING AREAS.
- THE SURROUNDING SOIL HORIZONS, WITH THE FOLLOWING MINIMUM TOP SOIL DEPTHS SEEDED AREAS - 100 mm
- PLANTED AREAS (EXCLUDING TREES) 300 mm • • PLANTED AREAS (INCLUDING TREES) - 300 mm
- EB 3 04 EB 3 05 EB 3 02 EB 3 03 LE 1.6 LE 4.2 LE 2.6 LE 2.4 LE 1.1 83 m sq 1640 m sq 4654 m sq 365 lin m EB 3 01 LE 4.2 15 lin m 1307 m so WB3 07 WB3 05 WB3 06 LE 5.1 Tc LE 2.5 LE 1.1 LE 4.2 1 nr. 416 m sq 24 lin m -WB3 04 WB3 03 LE 5.1 Ac 1 nr. LE 5.1 Tc 1 nr. WB3 02 LE 5.1 Qr 3 nr. WB3 01 LE 2.4 LE 1.1 203 m sq

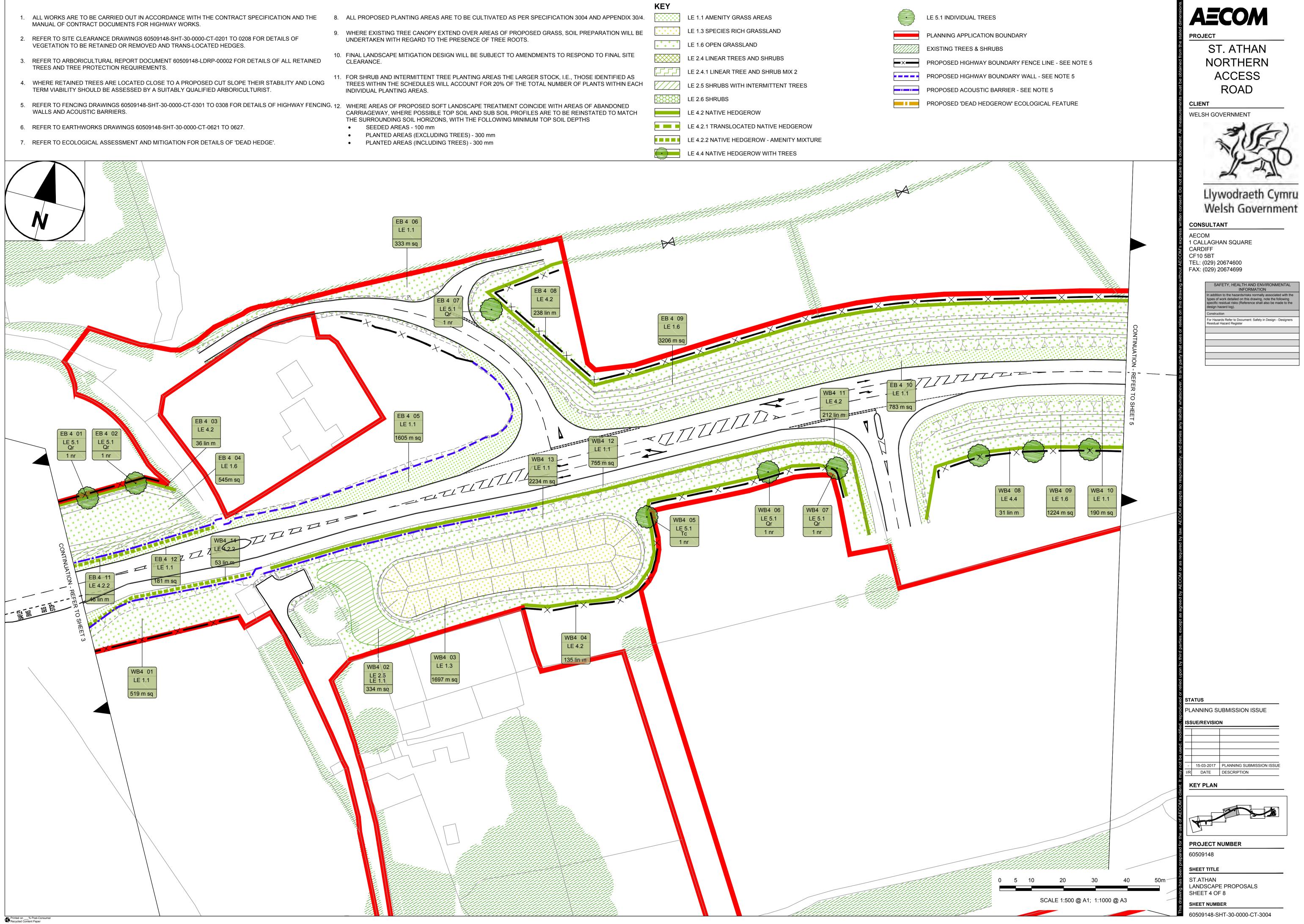


60509148-SHT-30-0000-CT-3003

- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE CONTRACT SPECIFICATION AND THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS.
- 2. REFER TO SITE CLEARANCE DRAWINGS 60509148-SHT-30-0000-CT-0201 TO 0208 FOR DETAILS OF VEGETATION TO BE RETAINED OR REMOVED AND TRANS-LOCATED HEDGES.
- TREES AND TREE PROTECTION REQUIREMENTS.
- TERM VIABILITY SHOULD BE ASSESSED BY A SUITABLY QUALIFIED ARBORICULTURIST.
- WALLS AND ACOUSTIC BARRIERS

- CLEARANCE.
- INDIVIDUAL PLANTING AREAS.







- 1. MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS.
- VEGETATION TO BE RETAINED OR REMOVED AND TRANS-LOCATED HEDGES.
- TREES AND TREE PROTECTION REQUIREMENTS.
- TERM VIABILITY SHOULD BE ASSESSED BY A SUITABLY QUALIFIED ARBORICULTURIST.
- WALLS AND ACOUSTIC BARRIERS.

- CLEARANCE.
- INDIVIDUAL PLANTING AREAS.



	KEY	<u> </u>	
CULTIVATED AS PER SPECIFICATION 3004 AND APPENDIX 30/4.	LE 1.1 AMENITY GRASS AREAS		LE 5.1 INDIVIDUAL TREE
R AREAS OF PROPOSED GRASS, SOIL PREPARATION WILL BE	LE 1.3 SPECIES RICH GRASSLAND		PLANNING APPLICATIO
CE OF TREE ROOTS.	+ + + + + LE 1.6 OPEN GRASSLAND		EXISTING TREES & SHF
BE SUBJECT TO AMENDMENTS TO RESPOND TO FINAL SITE	LE 2.4 LINEAR TREES AND SHRUBS		PROPOSED HIGHWAY E
NG AREAS THE LARGER STOCK, I.E., THOSE IDENTIFIED AS	LE 2.4.1 LINEAR TREE AND SHRUB MIX 2		PROPOSED HIGHWAY E
IT FOR 20% OF THE TOTAL NUMBER OF PLANTS WITHIN EACH	LE 2.5 SHRUBS WITH INTERMITTENT TREES		PROPOSED ACOUSTIC
APE TREATMENT COINCIDE WITH AREAS OF ABANDONED	LE 2.6 SHRUBS		PROPOSED 'DEAD HED
ND SUB SOIL PROFILES ARE TO BE REINSTATED TO MATCH E FOLLOWING MINIMUM TOP SOIL DEPTHS	LE 4.2 NATIVE HEDGEROW		
	LE 4.2.1 TRANSLOCATED NATIVE HEDGEROW		
· 300 mm 300 mm	LE 4.2.2 NATIVE HEDGEROW - AMENITY MIXTURE		
	LE 4.4 NATIVE HEDGEROW WITH TREES		

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- 4. WHERE RETAINED TREES ARE LOCATED CLOSE TO A PROPOSED CUT SLOPE THEIR STABILITY AND LONG TERM VIABILITY SHOULD BE ASSESSED BY A SUITABLY QUALIFIED ARBORICULTURIST.
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- 6. REFER TO EARTHWORKS DRAWINGS 60509148-SHT-30-0000-CT-0621 TO 0627.
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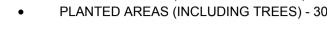
- 8. ALL PROPOSED PLANTING AREAS ARE TO BE CU
- 9. WHERE EXISTING TREE CANOPY EXTEND OVER UNDERTAKEN WITH REGARD TO THE PRESENCE
- 10. FINAL LANDSCAPE MITIGATION DESIGN WILL BE CLEARANCE.
- 11. FOR SHRUB AND INTERMITTENT TREE PLANTING TREES WITHIN THE SCHEDULES WILL ACCOUNT INDIVIDUAL PLANTING AREAS.
- CARRIAGEWAY, WHERE POSSIBLE TOP SOIL ANI THE SURROUNDING SOIL HORIZONS, WITH THE I SEEDED AREAS - 100 mm
- PLANTED AREAS (EXCLUDING TREES) 3

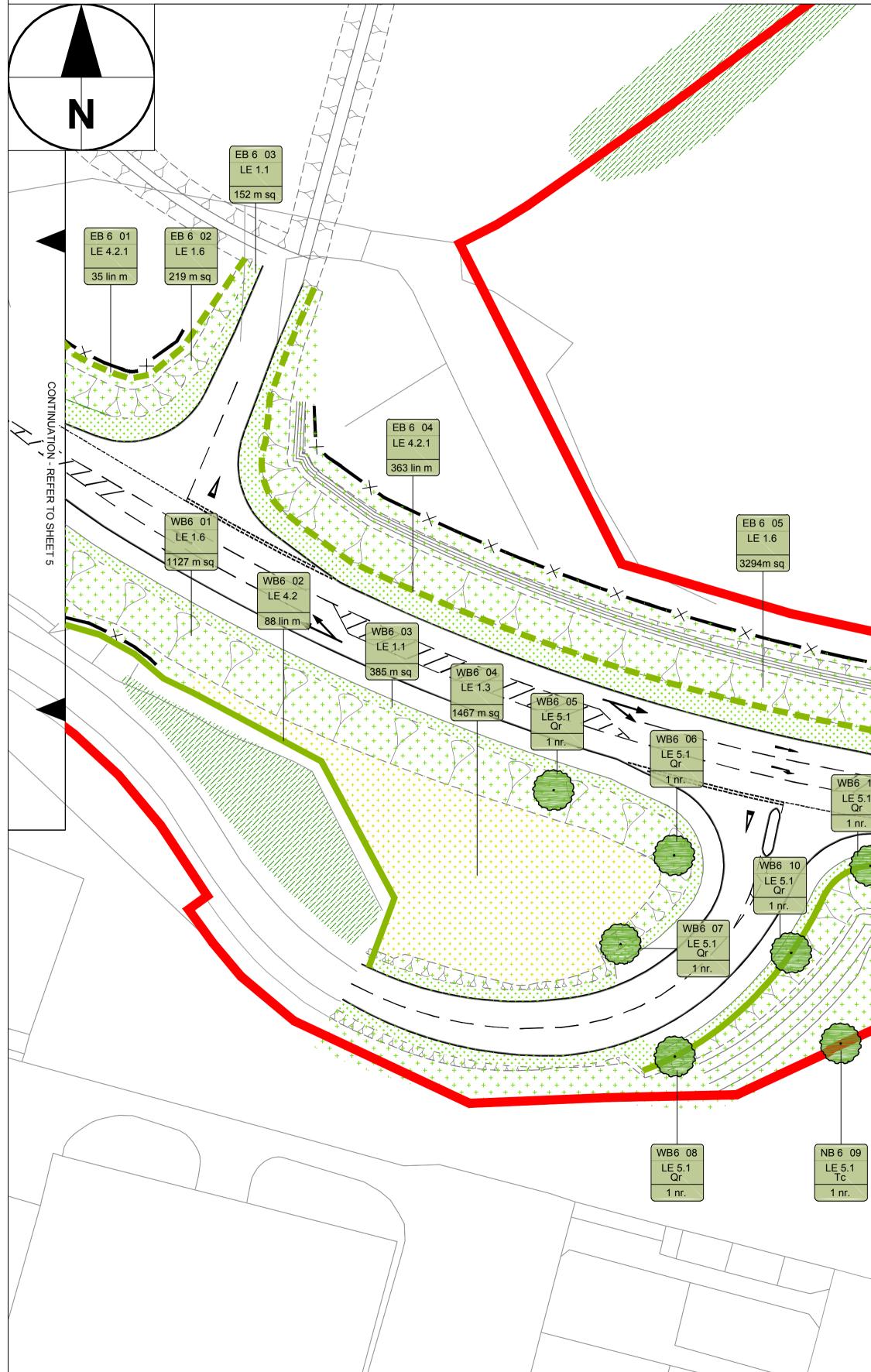
EB 6 06

LE 1.1

1248 m sq

Z/Z/Z/Z =





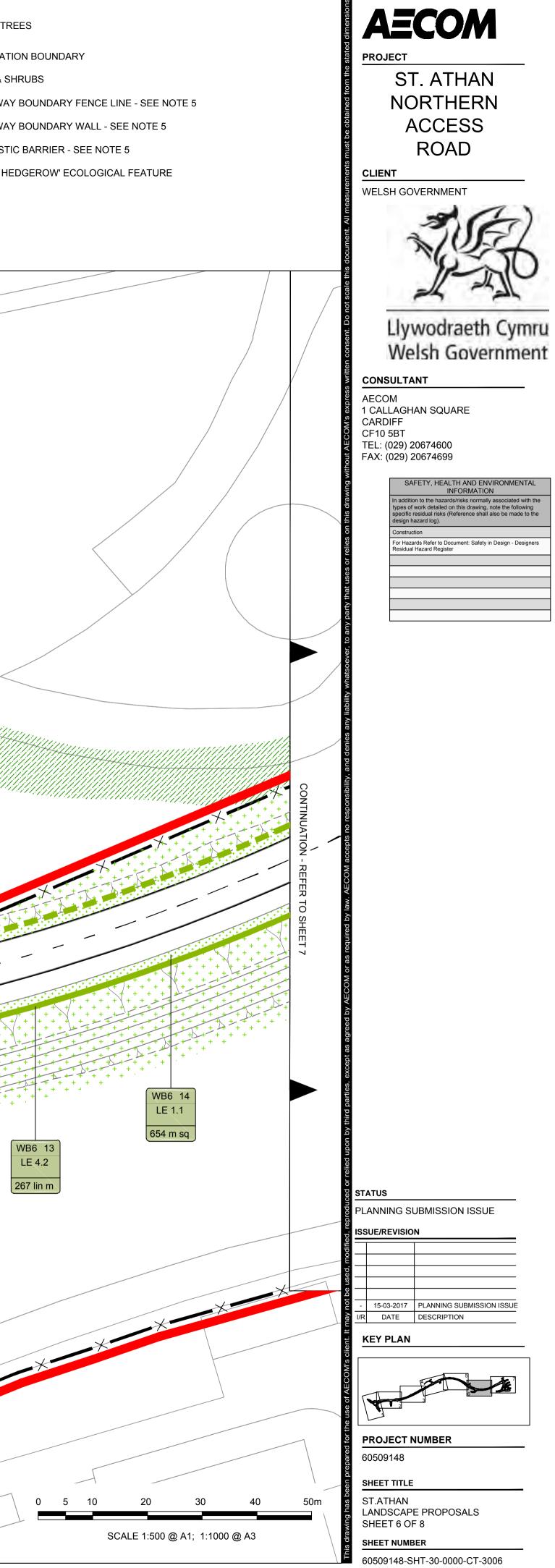
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			, , , , , , , , , , , , , , , , , , , ,
	KEY	\sim	
CULTIVATED AS PER SPECIFICATION 3004 AND APPENDIX 30/4.	LE 1.1 AMENITY GRASS AREAS	$\overline{\mathbf{\cdot}}$	LE 5.1 INDIVIDUAL TRE
ER AREAS OF PROPOSED GRASS, SOIL PREPARATION WILL BE ICE OF TREE ROOTS.	LE 1.3 SPECIES RICH GRASSLAND		PLANNING APPLICATIO
ICE OF TREE ROOTS.	+ ⁺ + ⁺ + ⁺ LE 1.6 OPEN GRASSLAND		EXISTING TREES & SH
BE SUBJECT TO AMENDMENTS TO RESPOND TO FINAL SITE	LE 2.4 LINEAR TREES AND SHRUBS		PROPOSED HIGHWAY
ING AREAS THE LARGER STOCK, I.E., THOSE IDENTIFIED AS	LE 2.4.1 LINEAR TREE AND SHRUB MIX 2		PROPOSED HIGHWAY
NT FOR 20% OF THE TOTAL NUMBER OF PLANTS WITHIN EACH	LE 2.5 SHRUBS WITH INTERMITTENT TREES		PROPOSED ACOUSTIC
	LE 2.6 SHRUBS		PROPOSED 'DEAD HEI
APE TREATMENT COINCIDE WITH AREAS OF ABANDONED AND SUB SOIL PROFILES ARE TO BE REINSTATED TO MATCH IE FOLLOWING MINIMUM TOP SOIL DEPTHS	LE 4.2 NATIVE HEDGEROW		
IE FOLLOWING MINIMUM TOP SOIL DEPTHS	LE 4.2.1 TRANSLOCATED NATIVE HEDGEROW		
- 300 mm · 300 mm	LE 4.2.2 NATIVE HEDGEROW - AMENITY MIXTURE		
	LE 4.4 NATIVE HEDGEROW WITH TREES		

WB6 12 LE 1.6

5689 m sq





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EB 7 01

LE 4.2.1

210 lin m

- 6. REFER TO EARTHWORKS DRAWINGS 60509148-SHT-30-0000-CT-0621 TO 0627.
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- 8.
- UNDERTAKEN WITH REGARD TO THE PRESENCE OF TREE ROOTS.
- CLEARANCE.
- INDIVIDUAL PLANTING AREAS.
- THE SURROUNDING SOIL HORIZONS, WITH THE FOLLOWING MINIMUM TOP SOIL DEPTHS
- SEEDED AREAS 100 mm PLANTED AREAS (EXCLUDING TREES) - 300 mm •
- PLANTED AREAS (INCLUDING TREES) 300 mm •

EB 7 03

LE 1.1

282 m sq

WB7 01

LE 4.2

356 lin m

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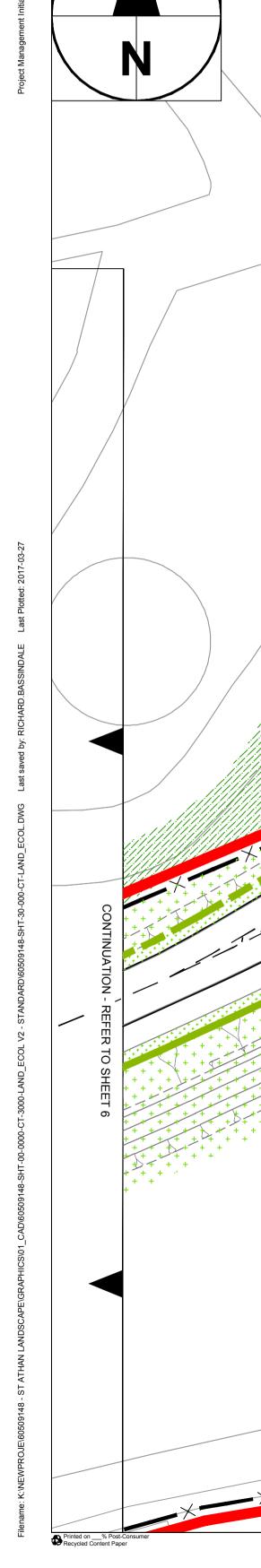
WB7 02

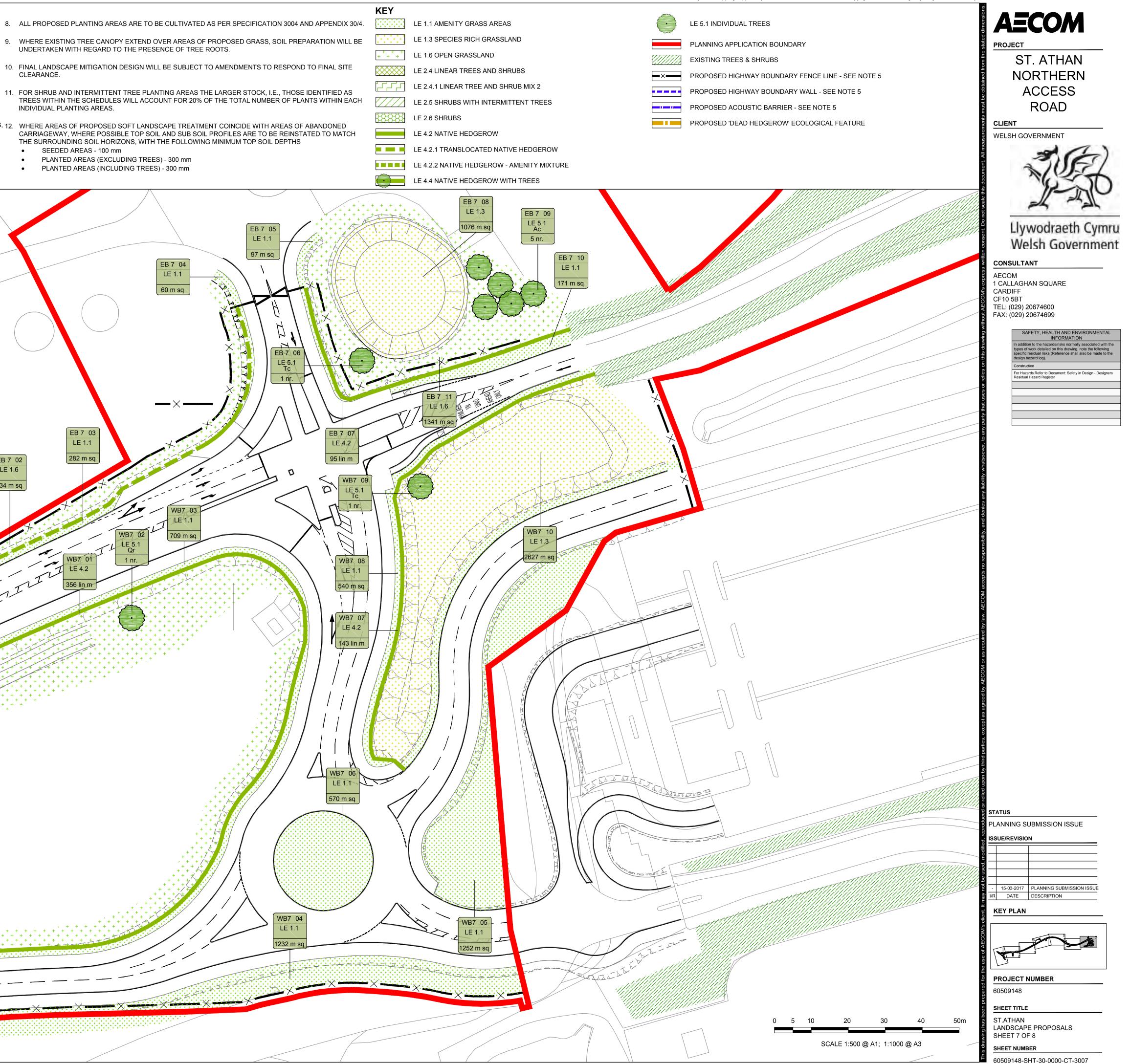
LE 5.1 Qr

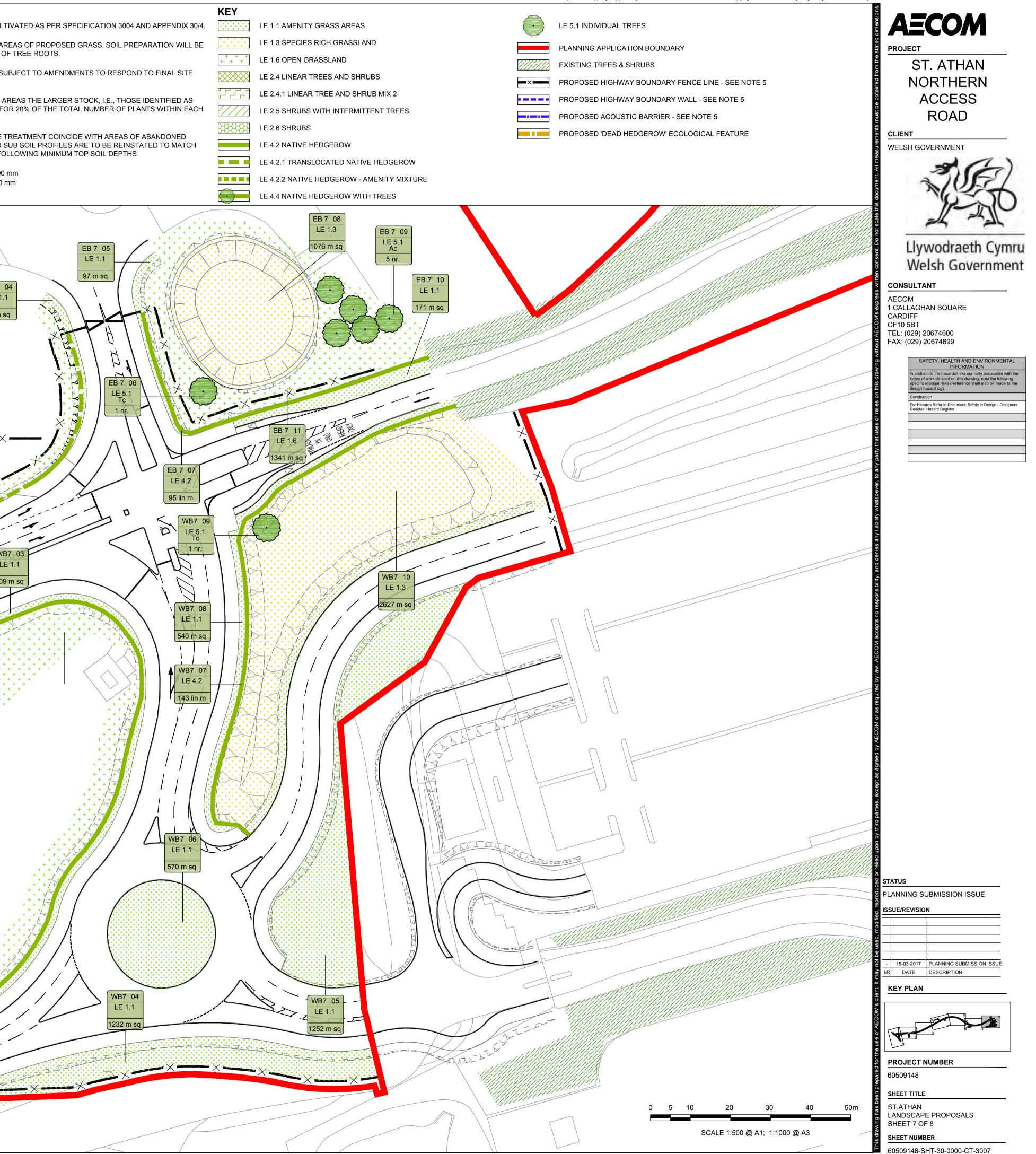
1 nr.

EB 7 02 LE 1.6

834 m sq

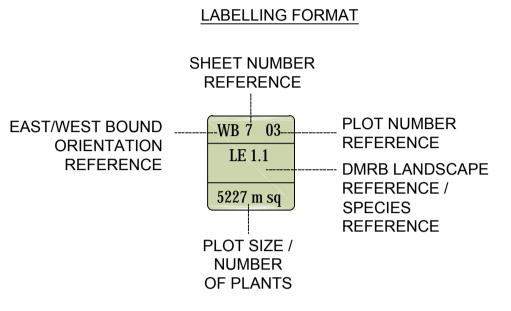






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LE1.1 - AMENITY GRASS SEED MIX/ LE1.6 OPEN GRASSLAND Sowing rate of 35g/m²

Species	Percentage	Species
	(%)	
Agrostis capillaris	10	
Festuca rubra ssp rubra	20	
Festuca longifolia	30	
Lolium perenne	25	
Poa compressa	10	
Trifolium repens	5	

LE1.3 - SPECIES RICH GRASSLAND Sowing rate of 5g/m²

Species	Percentage (%)
Wild Flowers	(70)
Achillea millefolium	0.5
Achillea ptarmica	0.2
Betonica officinalis - (Stachys officinalis)	1
Centaurea nigra	2.5
Filipendula ulmaria	2
Galium verum	1.5
Geum rivale	0.4
Leucanthemum vulgare	0.6
Lotus pedunculatus	0.8
Plantago lanceolata	1
Primula veris	0.2
Prunella vulgaris	1.5
Ranunculus acris	2.5
Rhinanthus minor	1.5
Rumex acetosa	1.5 1
Sanguisorba officinalis	0.2
Silene flos-cuculi - (Lychnis flos-cuculi) Succisa pratensis	0.2
Vicia cracca	0.5
	0.5
Grasses	
Agrostis capillaris	10
Alopecurus pratensis	2
Anthoxanthum odoratum	2
Briza media	1
Cynosurus cristatus	32
Deschampsia cespitosa	1
Festuca rubra	24
Hordeum secalinum	1
Schedonorus pratensis - (Festuca pratensis)	7

8. ALL PROPOSED PLANTING AREAS ARE TO BE CU

- 9. WHERE EXISTING TREE CANOPY EXTEND OVER UNDERTAKEN WITH REGARD TO THE PRESENCE
- 10. FINAL LANDSCAPE MITIGATION DESIGN WILL BE CLEARANCE.
- 11. FOR SHRUB AND INTERMITTENT TREE PLANTING TREES WITHIN THE SCHEDULES WILL ACCOUNT INDIVIDUAL PLANTING AREAS.

CARRIAGEWAY, WHERE POSSIBLE TOP SOIL AND THE SURROUNDING SOIL HORIZONS, WITH THE I

- SEEDED AREAS 100 mm PLANTED AREAS (EXCLUDING TREES) - 3
- PLANTED AREAS (INCLUDING TREES) 30

NOTES

ALL PLANTS AND PLANTING OPERATIONS ARE TO COMPLY WITH THE REQUIREMENTS AND RECOMMENDATIONS OF ALL CURRENT RELEVANT BRITISH STANDARD SPECIFICATION INCLUDING:

•

•

• •

ALL PLANTING SPECIFIED SHOULD USE EXISTING GOOD QUALITY SITE WON TOPSOIL AND/OR IMPORTED, CLEAN/INERT HORTICULTURAL AMELIORANTS FROM SUSTAINABLE SOURCES. ALL PLANTING TO BE CARRIED OUT IN OPTIMAL PLANTING PERIOD OCTOBER THROUGH UNTIL MARCH AND DURING APPROPRIATE CLIMATIC CONDITIONS. WHERE POSSIBLE, WHILST ALLOWING CONSTRUCTION ACTIVITIES, EXISTING TREES WITHIN AND ADJACENT TO THE APPLICATION BOUNDARY ARE TO BE RETAINED AND PROTECTED TO BS5837:2012.

	Percentage (%)
Wild Flowers	
Achillea millefolium Agrimonia eupatoria Arctium minus Centaurea nigra Centaurea scabiosa Daucus carota Dipsacus fullonum Galium album - (Galium mollugo) Geranium pratense Leucanthemum vulgare Pastinaca sativa Plantago lanceolata Pulicaria dysenterica Silene dioica Torilis japonica Vicia cracca	0.5 1.5 1 2.5 1.5 2 1 1 0.2 1 1 0.4 0.1 2 2 0.5 1.8
<u>Grasses</u> Alopecurus pratensis	2
Cynosurus cristatus Dactylis glomerata Deschampsia cespitosa Festuca rubra Holcus lanatus Schedonorus arundinaceus - (Festuca arundinacea) Schedonorus pratensis - (Festuca pratensis)	20 16 2 20 2 8 10

LE1.6 - OPEN GRASSLAND

Sowing rate of 5g/m²

	KEY	\sim	
CULTIVATED AS PER SPECIFICATION 3004 AND APPENDIX 30/4.	LE 1.1 AMENITY GRASS AREAS		LE 5.1 INDIVIDUAL TRE
R AREAS OF PROPOSED GRASS, SOIL PREPARATION WILL BE	LE 1.3 SPECIES RICH GRASSLAND		PLANNING APPLICATIO
CE OF TREE ROOTS.	+ ⁺ + ⁺ + ⁺ LE 1.6 OPEN GRASSLAND		EXISTING TREES & SH
BE SUBJECT TO AMENDMENTS TO RESPOND TO FINAL SITE	LE 2.4 LINEAR TREES AND SHRUBS		PROPOSED HIGHWAY
NG AREAS THE LARGER STOCK, I.E., THOSE IDENTIFIED AS	LE 2.4.1 LINEAR TREE AND SHRUB MIX 2		PROPOSED HIGHWAY
NT FOR 20% OF THE TOTAL NUMBER OF PLANTS WITHIN EACH	LE 2.5 SHRUBS WITH INTERMITTENT TREES		PROPOSED ACOUSTIC
	LE 2.6 SHRUBS		PROPOSED 'DEAD HEL
APE TREATMENT COINCIDE WITH AREAS OF ABANDONED AND SUB SOIL PROFILES ARE TO BE REINSTATED TO MATCH	LE 4.2 NATIVE HEDGEROW		
E FOLLOWING MINIMUM TOP SOIL DEPTHS	LE 4.2.1 TRANSLOCATED NATIVE HEDGEROW		
- 300 mm 300 mm	LE 4.2.2 NATIVE HEDGEROW - AMENITY MIXTURE		
	LE 4.4 NATIVE HEDGEROW WITH TREES		

THE SPECIES WILL INCLUDE (BUT WILL NOT NECESSARILY BE RESTRICTED TO) THOSE LISTED.

THE HANDLING OF PLANTS TO BE IN ACCORDANCE WITH NATIONAL PLANT SPECIFICATION 'HANDLING AND ESTABLISHING LANDSCAPE PLANTS'.

• BS 3936-1:1992. NURSERY STOCK. SPECIFICATION FOR TREES AND SHRUBS

 BS 3882: 2015 SPECIFICATION FOR TOPSOIL AND REQUIREMENTS FOR USE (INCORPORATING CORRIGENDUM NO.1) BS 4428:1989. CODE OF PRACTICE FOR GENERAL LANDSCAPE OPERATIONS (EXCLUDING HARD SURFACES) (AMD 6784)

BS 5837: 2012 TREES IN RELATION TO DESIGN, DEMOLITION AND CONSTRUCTION - RECOMMENDATIONS

BS 7370-3:1991. GROUNDS MAINTENANCE. RECOMMENDATIONS FOR MAINTENANCE OF AMENITY AND FUNCTIONAL TURF (OTHER THAN SPORTS TURF)

BS 8545: 2014 TREES: FROM NURSERY TO INDEPENDENCE IN THE LANDSCAPE – RECOMMENDATIONS

BS 8601:2013 SPECIFICATION FOR SUBSOIL AND REQUIREMENTS

LE2.4 - LINEAR TREES AND SHRUBS								
Species	Percentage	Height	Number of	Root	Density	Form		
	(%)	(cm)	times	Condition				
			transplanted					
Alnus glutinosa	15	60-80	1+1	BR	2 m centres	Transplant		
Betula pendula	7.5	40-60	1+1	BR	2 m centres	Transplant		
Corylus avellana	7.5	40-60	1+1	BR	2 m centres	Transplant		
Crataegus monogyna	2.5	40-60	1+1	BR	2 m centres	Transplant		
llex aquifolium	5	30-40		C	2 m centres	Leader with laterals		
Quercus robur	17.5	60-80	1+1	BR	2 m centres	Transplant		
Prunus avium	2.5	40-60	1+1	BR	2 m centres	Transplant		
Prunus spinosa	2.5	40-60	1+1	BR	2 m centres	Transplant		
Salix cinera	5	60-80	1+1	BR	2 m centres	Transplant		
Tilia cordata	2.5	60-80	1+1	BR	2 m centres	Transplant		
				1 1		1		

LE2.4.1 - LINEAR TREE AND SHRUB MIX 2	

Species	Percentage (%)	Height (cm)	Number of times transplanted	Root Condition	Density	Form
Alnus glutinosa	15	40-60	1+1	BR	2 m centres	Transplant
Acer campestre	10	60-80	1+1	BR	2 m centres	Transplant
Betula pendula	5	60-80	1+1	BR	2 m centres	Transplant
Corylus avellana	25	40-60	1+1	BR	2 m centres	Transplant
Crataegus monogyna	25	40-60	1+1	BR	2 m centres	Transplant
Malus sylvestris	5	60-80	1+1	BR	2 m centres	Transplant
Prunus avium	10	40-60	1+1	BR	2 m centres	Transplant
Quercus robur	5	60-80	1+1	BR	2 m centres	Transplant

LE2.5 - SHRUBS WITH INTERMITTENT TREES

Species	Percentage	Height	Girth	Number of	Root	Pot	Density	Form
	(%)	(cm)	(cm)	times	Condition	Size		
				transplanted		(It)		
Acer campestre	15	30-80		1+1	BR		2 m centres	Transplant
Crataegus monogyna	15	40-60		1+1	BR		2 m centres	Transplant
Corylus avellana	30	40-60		1+1	BR		2 m centres	Transplant
llex aquifolium	5	30-40		1+1	C	1L	2 m centres	Leader with laterals
Prunus spinosa	10	40-60		1+1	BR		2 m centres	Transplant
Malus sylvestris	5	60-80		1+1	BR		2 m centres	Transplant
Rhamnus cathartica	5	40-60		1+1	BR		2 m centres	Transplant
Salix caprea	5	40-60		1+1	BR		2 m centres	Transplant
Sorbus aucuparia	5	60-80		1+1	BR		2 m centres	Transplant
Viburnum lantana	5	40-60		1+1	BR		2 m centres	Transplant
Trees								
Acer campestre	15	250-300	8-10	2x	BR		25 m centres	
Corylus avellana	20	250-300	8-10	2x	BR		25 m centres	
Quercus robur	65	250-300	8-10	2x	BR		25 m centres	

LE2.6 - SHRUBS							
Species	Percentage	Height	Number of	Root	Pot	Density	Form
	(%)	(cm)	times	Condition	Size	-	
			transplanted		(lt)		
Crataegus monogyna	20	40-60	1+1	BR		1.5m centres	Transplant
Corylus avellana	50	40-60	1+1	BR		1.5m centres	Transplant
llex aquifolium	5	30-40	1+1	C	1L	1.5m centres	Leader with laterals
Prunus spinosa	15	40-60	1+1	BR		1.5m centres	Transplant
Rosa canina	10	40-60	1+1	BR		1.5m centres	Transplant

LE4.2 - NATIVE HEDGEROW									
Species	Percentage (%)	Height (cm)	Number of times transplanted	Root Condition	Density	Form			
Acer campestre	15	40-60	1+1	BR	30 cm centres	Transplant			
Corylus avellana	15	40-60	1+1	BR	30 cm centres	Transplant			
Crataegus monogyna	55	40-60	1+1	BR	30 cm centres	Transplant			
Prunus spinosa	5	40-60	1+0	BR	30 cm centres	Transplant			
Viburnum opulus	5	40-60	1+1	BR	30 cm centres	Transplant			
Viburnum lantana	2	40-60	1+1	BR	30 cm centres	Transplant			
Rhamnus cathartica	3	40-60	1+1	BR	30 cm centres	Transplant			

Species	Percentage (%)	Height (cm)	Number of times transplanted	Root Condition	Density	Form
Acer campestre	15	40-60	1+1	BR	30 cm centres	Transplant
Cornus sanguinea	20	40-60	1+1	BR	30 cm centres	Transplant
Crataegus monogyna	40	40-60	1+1	BR	30 cm centres	Transplant
llex aquifolium	10	20-40	-	C	30 cm centres	Transplant
Prunus spinosa	5	40-60	1+1	BR	30 cm centres	Transplant
Viburnum opulus	5	40-60	1+1	BR	30 cm centres	Transplant
Viburnum lantana	5	40-60	1+1	BR	30 cm centres	Transplant

LE 4.4 - NATIVE HEDGEROW WITH TREES Native hedgerow as per LE4.2 plus the following trees

Species	Percentage (%)	Height (cm)	Girth (cm)	Number of times transplanted	Root Condition	Form
Alnus cordata	10	300-350	12 - 14	2x	CG	Standard
Quercus robur	70	250-300		2x	CG	Standard
Tilia cordata	20	300-350		2x	CG	Standard

LE5.1 - INDIVIDUAL TRI						
Species	Percentage	Height	Girth	Number of	Root	
	(%)	(cm)	(cm)	times	Condition	Form
				transplanted		
Alnus cordata	10	300-350	12 - 14	2x	CG	Standard
Quercus robur	70	250-300	1		CG	Standard
Tilia cordata	20	300-350	12 - 14	2x	CG	Standard

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REES

TION BOUNDARY

SHRUBS

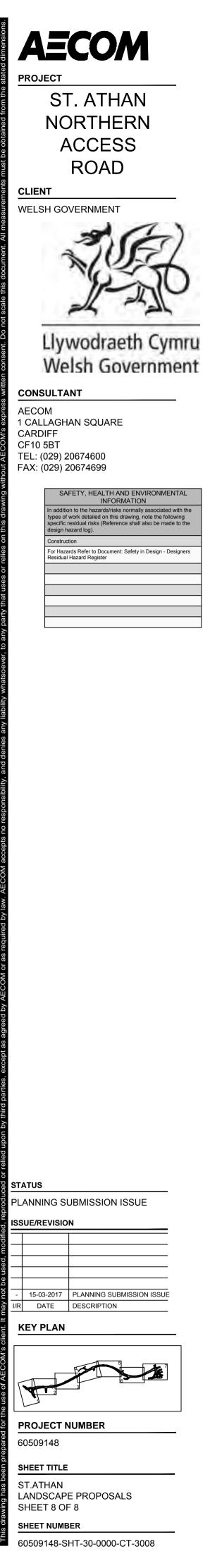
AY BOUNDARY FENCE LINE - SEE NOTE 5

AY BOUNDARY WALL - SEE NOTE 5

TIC BARRIER - SEE NOTE 5

HEDGEROW' ECOLOGICAL FEATURE

LE4.2.1 - NATIVE HEDGEROW - AMENITY MIXTURE



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