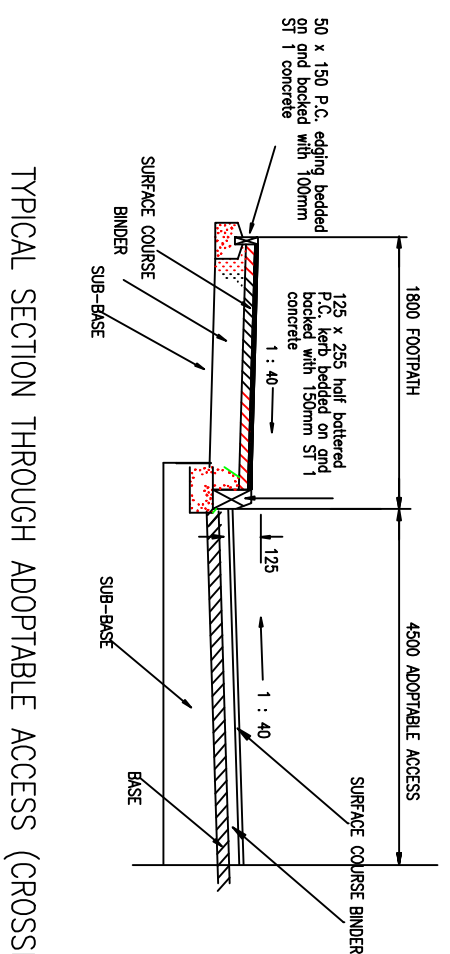




TYPICAL SECTION THROUGH ADAPTABLE ACCESS (CROSSFALL)

ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH WREXHAM C.B.C. GUIDELINES ON ADAPTABLE HIGHWAYS

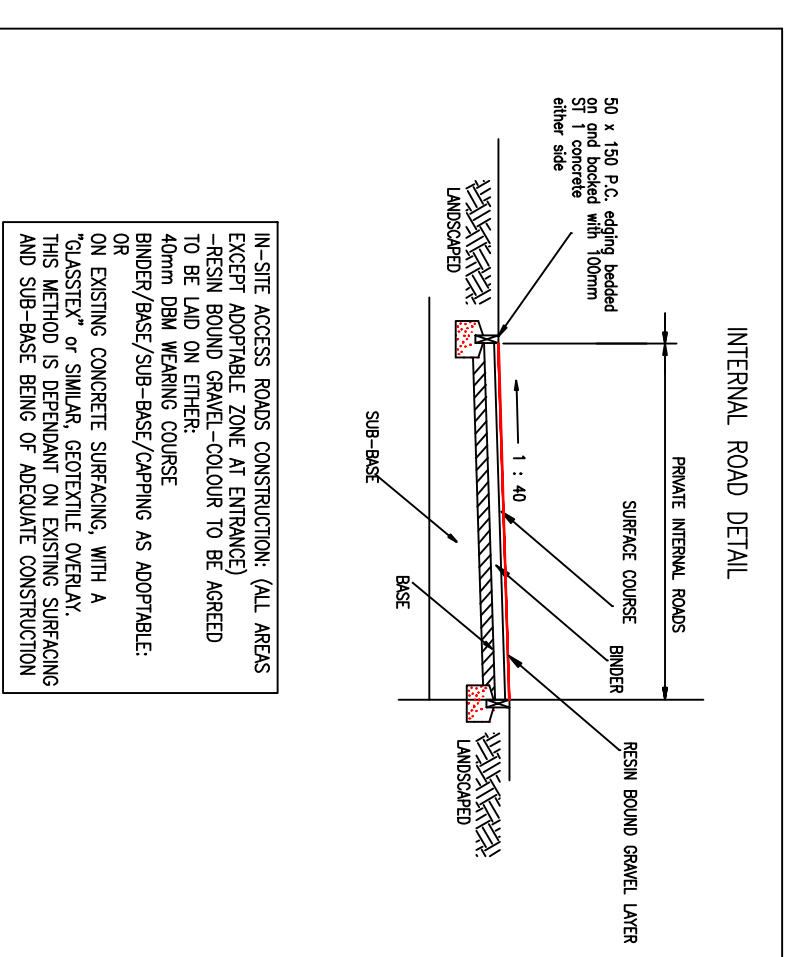
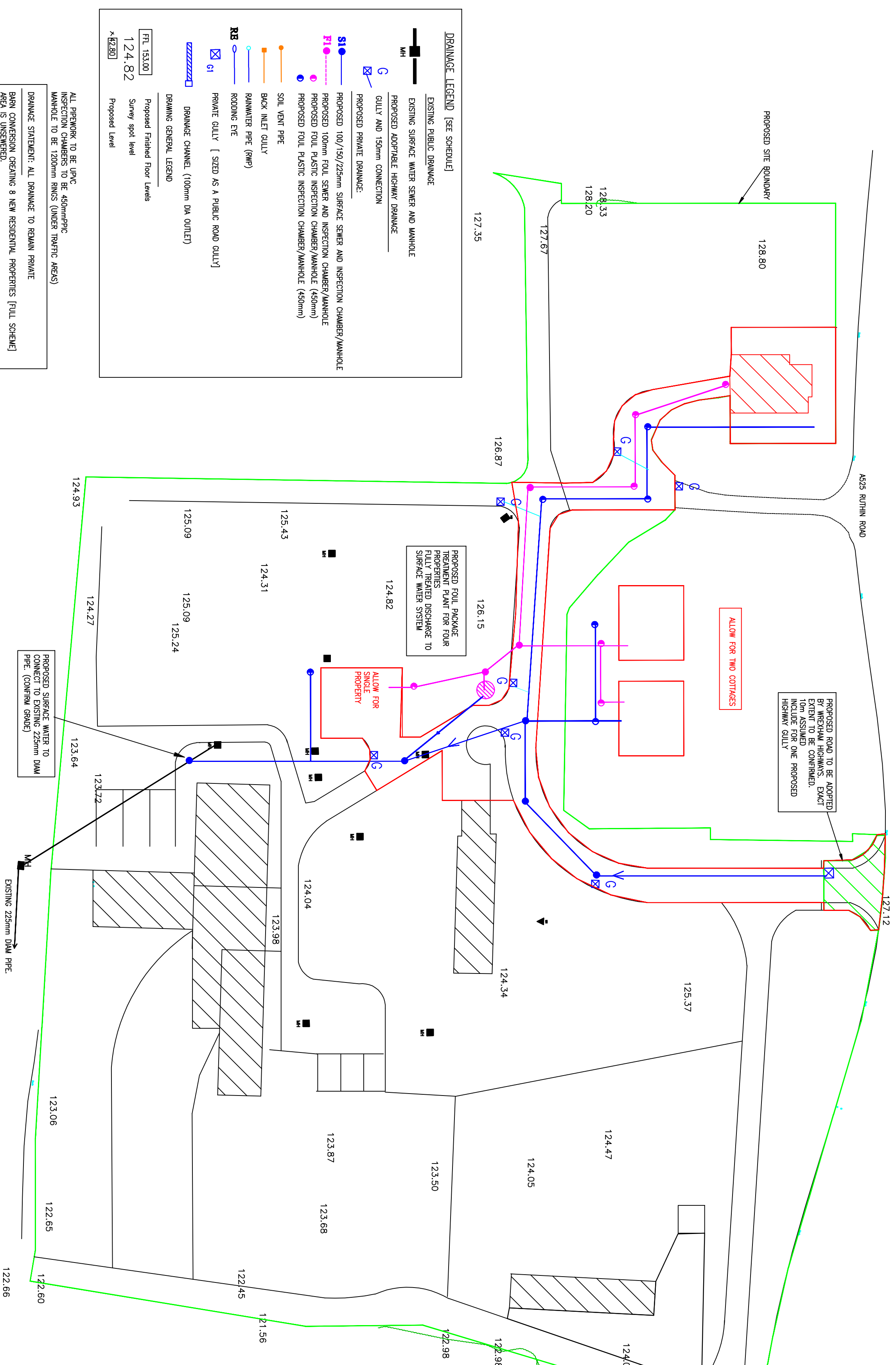
ADAPTABLE ACCESS ROAD CONSTRUCTION DETAILS					
MATERIAL		B.S. EN 13108 Specification Ref.	NOMINAL ASPHALT SIZE	THICKNESS OF LAYER (mm)	
					PSV
SURFACE COURSE	OR	STONE Mastic ASPHALT (SMA)	10mm	40mm	60
	HOT FLOID ASPHALT SEE NOTE 5	SECTION 4	14mm	45mm	60
BINDER COURSE	ASPHALT CONCRETE	SECTION 1	20mm	60mm	
	ENRER 100/150				
	ASPHALT CONCRETE	SECTION 1	32mm	100mm	
	ENRER 100/150				
SUB-BASE	Granular type 1	D.O.T	-	320mm	
	Granular type 1	D.O.T. 803	-	320mm	
OPENING LAYER	Type 872	D.O.T.	-	240mm	

FOOTPATH CONSTRUCTION DETAILS: 1.8m WIDTH						
LAYER	MATERIAL	B.S. EN 13108 Section No.	NOMINAL SECTION ADAPTIVE SIZE	THICKNESS OF LAYER (mm)		
				FOOTPATH	VEHICLE CROSSOVERS	
SURFACE COURSE	ASPHALT CONCRETE BINDER 16/20	SECTION 1	6mm	20mm	20mm	
				40mm	60mm	
				100mm	150mm	
BINDER COURSE	ASPHALT CONCRETE BINDER 16/20	SECTION 1	20mm			
SUB-BASE	Gravel Type 1	D.O.T Class 803	-			

	TOTAL THICKNESS (mm)	/60/75mm
* If CBR value is LESS than 2%, subbase thickness = 150mm, coping layer = 600mm		
If CBR value is GREATER than 5%, subbase thickness = 245mm, no coping layer		

Note : 3 No. minimum dropped kerbs to be used at vehicular crossings.

Based upon a CBR value at road form
CBR TO BE CONFIRMED



IN-SITE ACCESS, ROAD CONSTRUCTION: (ALL AREAS EXCEPT ADAPTABLE ZONE AT ENTRANCE)
-RESIN BOUND GRAVEL-COLOR TO BE MATCHED TO BE LAID ON EITHER:
40mm DESM WEARING COURSE
BINDER/BASE/SUB-BASE/ (CAPING AS ADAPTABLE:
OR
ON EXISTING CONCRETE SURFACING, WITH A "GLASSER" or SIMILAR GEOTEXTILE OVERLAY.
THIS METHOD IS RECOMMENDED ON EXISTING SURFACING
AND SUB-BASE BEING OF ADEQUATE CONSTRUCTION

PHASE 1:
4 PROPERTIES IN RED TO BE
CONSTRUCTED ONLY

NOTE: PHASE 1 IMPERMEABLE
AREA = 1867m2
NO STORAGE REQUIRED

[illegible]

ALL PIPEWORK TO BE UPVC
INSPECTION CHAMBERS TO BE 450mmPPC

MANHOLE TO BE 1200mm RINGS (UNDER TRAFFIC AREAS)

DRAINAGE STATEMENT: ALL DRAINAGE TO REMAIN PRIVATE

BARN CONVERSION CREATING 8 NEW RESIDENTIAL PROPERTIES

AREA IS UNSEWERED.
FOUL DRAINAGE TO PROPOSED PACKAGE TREATMENT PLANT

TREATED DISCHARGE TO EXISTING SURFACE WATER

SITE CHARACTERISTICS: CLAY

SURFACE WATER DRAINAGE:

EXISTING IMPERMEABLE AREA DRAINING TO MANHOLES = 6426m²
PROPOSED AREA = 9391m²

ADDITIONAL FLOW TO BE STORED / ATTENUATED AS NOTED, IN CELLULAR BLOCKS, WITH OUTFLOW IN LIMIT DISCHARGE TO EXISTING RATE OF 126 LITRES/S

WILL EXCEED AN LIMIT DISPERSED TO EXISTING WELLS OF OUTFLOW TO EXISTING SYSTEM.

100-YEAR SURFACE WATER [PLUS 30% CLIMATE CHANGE]

APPROX. 100m3: 10 BE SICKED IN SITE IN LOW AREAS / BUNDLED AREAS

HIGHWAY STATEMENT:
FIRST 10m (APPROX.) TO BE ADOPTED BY WREXHAM COUNTY COUNCIL.

REMAINDER TO BE PRIVATE

PROPOSED BUILDING

(FULL DESIGN)

PROPOSED ROADS, FOUL AND SURFACE WATER LAYOUT: PRELIMINARY

1. INTERNAL VIEWS				
A	INTERNAL ROAD DETAIL ADDED	23:16	AK	AK
Rev	Description	Date	Drawn	Chkd
KANE DESIGN				
Civil Engineering Design				
13 Windchester Way				
Wrexham				
LL12 8HH				
Tel: 01 978 535588				
Client				
STRUTT and PARKER				
Project				
PROPOSED DEVELOPMENT at				
PLAS POWER ESTATE, WREXHAM				
Title				
DRAINAGE FEASIBILITY				
SMALLER SCHEME				
DRAWING NUMBER				
1292/101				
SCALE	1:300	@ 1/1		
DATE	01/03/16	REVISION		
DRAWN	AK			
CHECKED	AJK	A		

NOTES:
ALL INFORMATION (AREAS, LAYOUT, EXISTING MANHOLES,
APPROXIMATE.
ALL DRAINAGE TO REMAIN PRIVATE
SOME EXISTING IN-SITE DRAINAGE MAY BE RE-USABLE.
CURRENT DESIGN ONLY ALLOWS FOR RE-USING LAST
LENGTH

DRAINAGE NOTE:
ALL PROPOSED RAINWATER RUN-OFF TO BE COLLECTED
BY THE PROPOSED DRAINAGE SYSTEM
SITE DISCHARGE LIMITED TO EXISTING RATE BY IN-SITE
STORAGE AND A FLOW CONTROL.
REFER TO CALCULATIONS
"1292--SURFACE WATER RUN-OFF"
"1292--SURFACE WATER STORAGE"