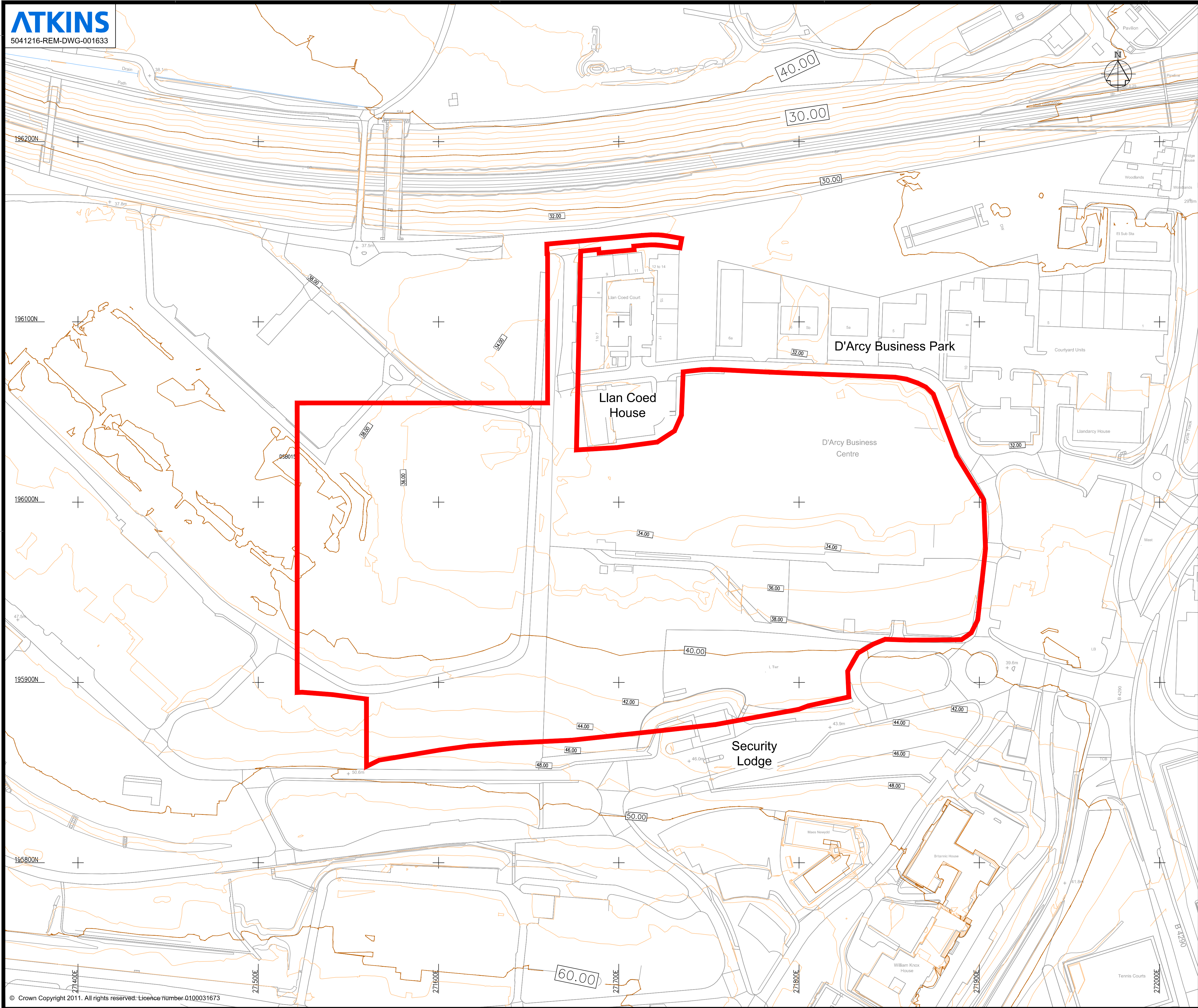




- NOTE
1. THIS DRAWING WAS BASED ON SURVEY INFORMATION PRODUCED AND PROVIDED BY HAWK 2013.
 2. AS BUILT SURVEY AS OF FEBRUARY 2009.
 3. CONTOURS SHOWN ARE BASED ON AERIAL SURVEY CARRIED OUT IN FEBRUARY 2009, LEVELS ARE IN METRES AOD.

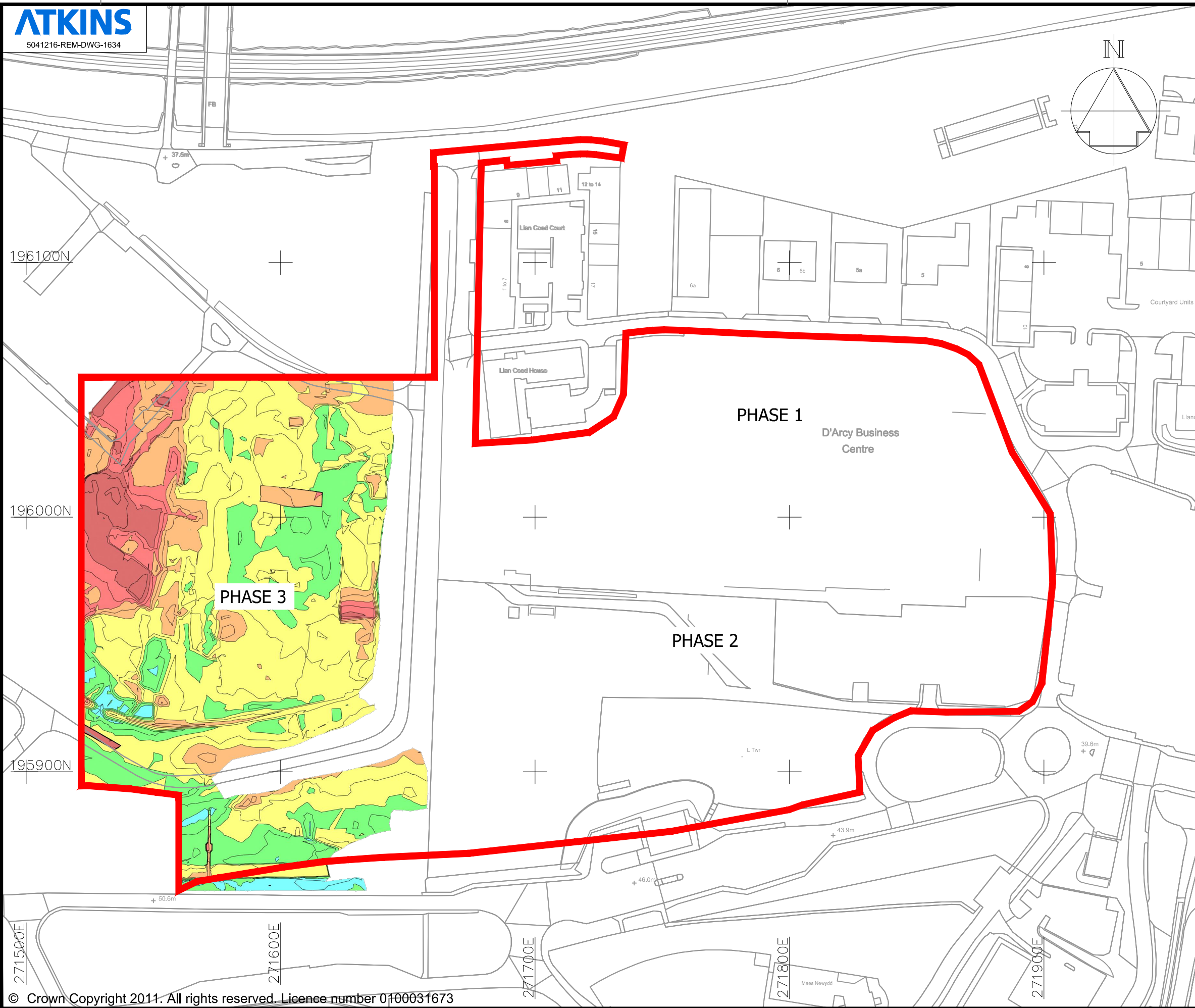
KEY

COMMERCIAL AREA PHASE BOUNDARY

50.00 GROUND LEVEL TAKEN FROM AERIAL SURVEY (M AOD)

48.00

REVISIONS	Drawn By	Checked By	Date
VALIDATION REPORT	-	MP	21/11/13
PURPOSE OF ISSUE	Rev.	Authorised for issue	Date
Atkins Limited Birmingham Office The Axis, 10 Holliday Street Birmingham West Midlands B1 1TF Tel 0121 483 5000 Fax 0121 483 5252 © THIS DRAWING IS NOT TO BE SCALED			
CLIENT ST.MODWEN			
PROJECT COED DARCY			
DRAWING TITLE COMMERCIAL AREA AS BUILT (FEBRUARY 2009)			
Scales	DRAWN JSD	CHECKED SB	CO-ORD CHECK
1:1000	DATE 13/11/13	DATE 13/11/13	DATE
0 1 2 3 4 5		SHEET A1	PLOT DATE 10.07.14
DRAWING NO 5041216-REM-DWG-001633			REV -



NOTE

1. THIS DRAWING WAS BASED ON SURVEY INFORMATION PROVIDED BY HAWK, SEPTEMBER 2013.
2. ISOPACHYTES PRIOR TO ROAD EMBANKMENT CONSTRUCTION.

KEY

COMMERCIAL AREA PHASE BOUNDARY

FILL THICKNESS			
No.	ID	Start	End
1		5.15	4.00
2		4.00	3.00
3		3.00	2.00
4		2.00	1.00
5		1.00	0.00
6		0.00	-0.74

REVISIONS	Drawn By	Checked By	Date
VALIDATION REPORT	-	MP	21/11/13
PURPOSE OF ISSUE	Rev.	Authorised for issue	Date
Atkins Limited Birmingham Office The Axis, 10 Holliday Street Birmingham West Midlands B1 1TF Tel 0121 483 5000 Fax 0121 483 5252 ©			
THIS DRAWING IS NOT TO BE SCALED			
CLIENT	ST.MODWEN		
PROJECT	COED DARCY		
DRAWING TITLE	COMMERCIAL AREA - ISOPACHYTE BASE OF REMEDIATION EXCAVATION TO FINAL LEVELS - PHASE 3		
SCALES	NTS	DRAWN JSD	CHECKED SB
DATE	19/11/13	DATE	19/11/13
CO-ORD CHECK	DATE	DATE	DATE
DRAWING NO	5041216-REM-DWG-1634		
REV	-		

Appendix A

Photographs

Photographs
Backfill of embankment foot print with granular fill



Photograph 1



Photograph 2



Photograph 3



Photograph 4



Photograph 5

Photographs

Examples of pipe work bedded in natural ground clay across the commercial area
CA pipe work was located at various depths across the CA varying from mm to m below ground level



Photograph 6



Photograph 7

Photograph

Base of excavation across the lower lying levels of phase 1 and beneath existing road embankment

Area was upfilled with suitable granular material



Photograph 8

Photographs

Removal of concrete foundations and founding blocks bedded in natural clay



Photograph 9



Photograph 10

hotograph

E ample of turnover of made ground ground conditions consisted of demolition rubble with a concrete structure evident in centre shot



Photograph 11

Photographs to
Back fill or granular material onto remediated clay base of the cavation surface
Surface water was pumped out of the cavations during the back filling operations



Photograph 12



Photograph 13



Photograph 14



Photograph 15

Photograph
Oily pipe work o bedded in clay



Photograph 16

Photograph and
Re profiling works across base



Photograph 17



Photograph 18

Photograph
Oily material associated with pipe work and old retaining wall



Photograph 19

Photographs to
Concrete tank footings with trapped free product associated with ground around
structures



Photograph 20



Photograph 21



Photograph 22

Photograph
Base of excavation in turned over area phase



Photograph 23

Photograph
Breach out of concrete foundations



Photograph 24

Photographs
Concrete footings prior to removal



Photograph 25



Photograph 26

Photograph
Break out of reinforced concrete tank base



Photograph 27

Photographs to
Brea out of concrete flooring across lower lying areas of phase 1. Concrete was placed directly on the natural clay ground which was heavily impacted with benzene, chlorinated hydrocarbons and free phase product.



Photograph 28



Photograph 29



Photograph 30



Photograph 31

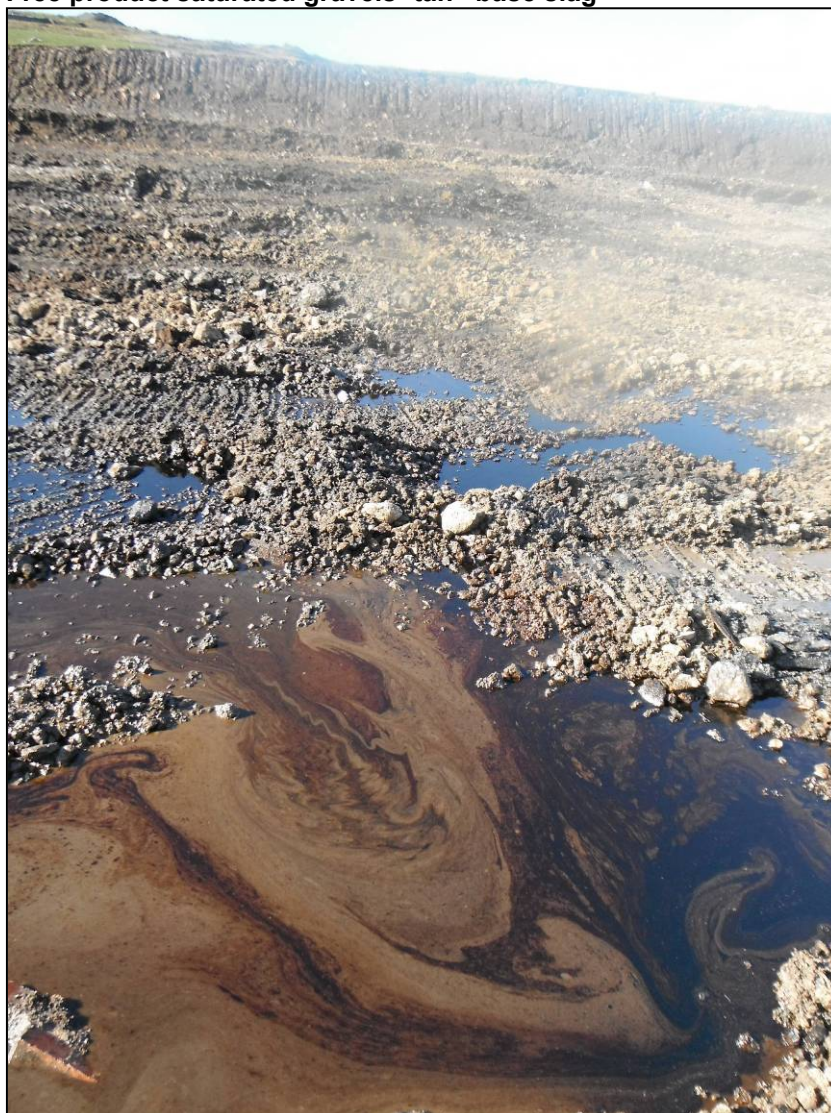


Photograph 32



Photograph 33

photographs
Free product saturated gravels tan base slag



Photograph 34



Photograph 35

hotograph
Old tan Base



Photograph 36

Photograph
Base of E cavation Clay underlying concrete slab foundations



Photograph 37

hotograph
roduct saturated highly mobile viscous sandy silts with high olfactory score on
boundary of hase and i e



Photograph 38

Photograph

A typical ground profile sequence on phase

Indicative log as follows

mm Grey mudstone gravel highly friable material

mm Brick and concrete demolition rubble

mm mm Reworbed organic black stained gravelly clay with hydrocarbon odour and pockets of peat

mm Soft grey brown clay natural ground



Photograph 39

Photographs to
show the extent of
corroded historic process pipe work



Photograph 40



Photograph 41



Photograph 42

Photographs 43 & 44
(Phase 1) structures and pipe work removal adjacent to Llancoed House



Photograph 43



Photograph 44