

Winvic Construction Ltd

Hoyland, Barnsley – Visit 2

VCS Report





Report for: Winvic Construction Ltd
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Project: Hoyland, Barnsley – Visit 2

Job No: PTS22335-05

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i. Executive Summary

This report describes the Visual Condition Survey on the Hoyland, Barnsley – Visit 2 scheme. The site can be identified in the site location plan within Appendix A. The survey was undertaken in January 2023 during daytime working hours using a 4K camera resolution survey.

The report details the evaluation of the condition of the existing surface of four separate areas of the Hoyland, Barnsley scheme in accordance with CS 229.

The pavement surface is Thin Surfacing (TSSC) and Hot Rolled Asphalt (HRA) for the carriageways and Asphalt Concrete (AC) for the Footpaths. The surface condition varies throughout each section. Sections; A6195 Exit, Sheffield Road Entry, Sheffield Road Exit, Sheffield Road Entry, Tankersley Lane, Sheffield Road – SB are generally in poor condition due to large areas of the sections having defects such as minor fatting, minor surface defectiveness, cracking and crazing. However, all other sections are generally in good condition with very few or no defects found.





1. Introduction

Pavement Testing Services Limited was instructed by Winvic Construction Limited to undertake a VCS survey on four sections on the Hoyland, Barnsley – Visit 2 scheme.

Pavement Testing Services Limited was instructed to survey carriageways and footpaths in four locations.

The report details the evaluation of the pavement surface condition and defected areas.

1.1 Site

The Hoyland, Barnsley site surveyed is made up of four parts (Appendix A):

- A6195 with Sheffield Road Roundabout & Footpaths (8 parts)
- Tankersley Lane & Footpaths (Both directions)
- Sheffield road with Parkside Road mini roundabout junction (4 parts)
- Sheffield Road & Footpaths (Both directions)

1.2 Investigation Details

The survey was carried out utilising a 4K resolution video survey by driving down the carriageways in all lanes, using a Multi-functional vehicle (MFV).

The video footage was interpreted by PTS and results typed up on to site sheets (See Appendix B). A schematic drawing of the defects was then produced (See Appendix C). A photograph album to reference the defects was then produced (see Appendix D).





2. Discussion

2.1 Overview

In January 2023, a VCS survey was carried out on the Hoyland, Barnsley. It was undertaken in accordance with CS 229.

2.2 Observations of A6195 with Sheffield Road Roundabout

The visual condition survey indicates that the carriageway surface is Thin Surfacing (TSSC) and Hot rolled asphalt (HRA) and the Footpath Surface is Asphalt Concrete (AC). Sections: A6195 Exit – has poor surface condition due to minor fatting and minor surface defectiveness for the full section. Sheffield Road Entry (SB) - has poor surface condition due to large areas of minor surface defectiveness as well as cracking, crazing and a pothole. Sheffield Road Exit (EB) – has poor surface condition due to minor fatting for the full section. Sheffield Road Entry (WB) – has poor surface condition due to minor surface defectiveness for the full sections. Sections: A6195 Entry, Sheffield Road Exit (NB), Olympus Way Entry & Exit have good surface condition as there were no defects found in the survey.

2.3 Observations of Tankersley Lane

The visual condition survey indicates that the carriageway surface is Thin Surfacing (TSSC) and Hot Rolled Asphalt (HRA) and the Footpath Surface is Asphalt Concrete (AC). Tankersley Lane is generally in good condition. However, there are some areas of major and minor surface defectiveness, small areas of major crazing and some cracking. The area of footpath with no surface construction should be noted.

2.4 Observations of Sheffield Road with Parkside Road mini roundabout junction

The visual condition survey indicates that the surface is Thin Surfacing (TSSC) and is in good condition. Parkside Road from mini Rbt (NB) has a small area of minor surface defectiveness. The rest of the survey found no defects including the mini roundabout.

2.5 Observations of Sheffield Road

The visual condition survey indicates that the carriageway surface is Thin Surfacing (TSSC) and the footpath surface is Asphalt Concrete (AC). Sheffield Road (NB) is generally in good condition but has a small area of minor surface defectiveness and crazing on the footpath. Sheffield Road (SB) is generally in poor condition due to a large area of the section being minor surface defectiveness.



APPENDIX A

Location Plan





Legend

 VCS Survey



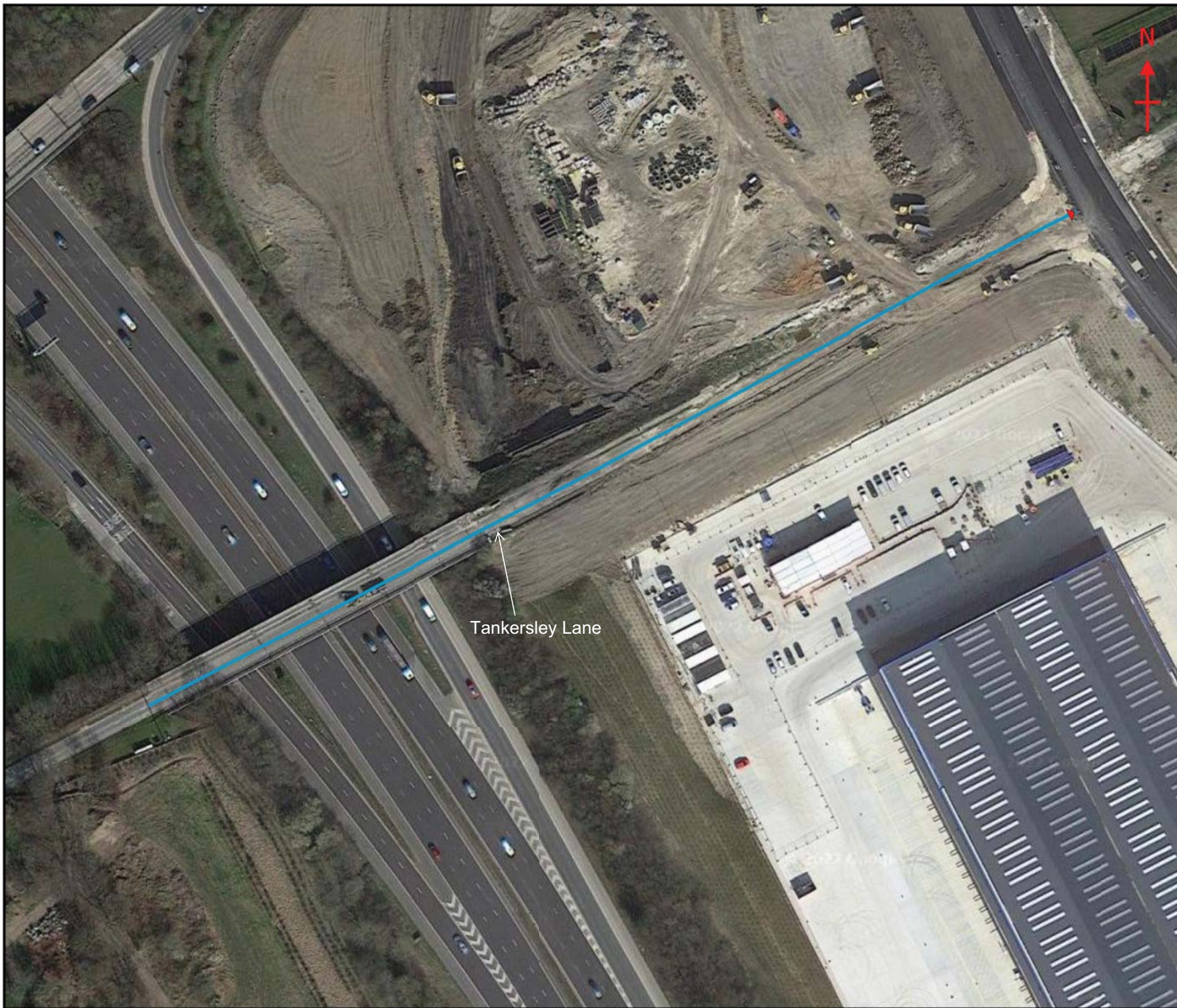
PAVEMENT TESTING SERVICES LTD.
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PROJECT:
Hoyland, Barnsley

TITLE:
VCS Survey

SCALE: NTS	DRAWN: LM	APPROVED: JM
PROJECT NO: PTS22335-02	CHECKED: JM	DATE: DEC-22
DRAWING NO: PTS22335-02_DR01		REV: 1



Tankersley Lane



Legend

 VCS Survey



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PROJECT:
Hoyland, Barnsley

TITLE:
VCS Survey

SCALE: NTS	DRAWN: LM	APPROVED: JM
PROJECT NO: PTS22335-02	CHECKED: JM	DATE: DEC-22
DRAWING NO: PTS22335-02_DR02		REV: 1



Legend
 VCS Survey

Sheffield Road to mini Rbt
 Parkside Road from mini Rbt
 Sheffield Road from mini Rbt
 Parkside Road to mini Rbt



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PROJECT:
 Hoyland, Barnsley

TITLE:
 VCS Survey

SCALE: NTS	DRAWN: LM	APPROVED: JM
PROJECT NO: PTS22335-02	CHECKED: JM	DATE: DEC-22
DRAWING NO: PTS22335-02_DR03		REV: 1



Legend

 VCS Survey



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PROJECT:
Hoyland, Barnsley

TITLE:
VCS Survey

SCALE: NTS	DRAWN: LM	APPROVED: JM
PROJECT NO: PTS22335-02	CHECKED: JM	DATE: DEC-22
DRAWING NO: PTS22335-02_DR04		REV: 1



APPENDIX B

Survey Sheets



VISUAL CONDITION SURVEY



Project				Direction	Job No.		Date		
Hoyland, Barnsley				EB	PTS22335-05		11/01/23		
Client		Contractor		Reference Section			Sheet No.		
Winvic Construction		PTS		Tankersley Lane			9 of 18		
Surveyor		Weather		GPS References			Length Surveyed		
LM		Damp		Start	E: 434975	N: 399895	308m		
				End	E: 435251	N: 400048			
LANE	CHAINAGE (m)		LENGTH (m)	WIDTH (m)	AREA (m ²)	FEATURE / DEFECT	SEVERITY	LOCATION	PHOTO REF
	START	END							
Footpath	0	189	189	2.00	378.00	AC		F	
CL1	0	108	108	3.65	394.20	HRA		F	14
CL1	0	35	35	3.65	127.75	SD(2)	2	F	15
CL1	0		0.5	3.65	1.83	J		F	
Footpath	0	107	107	1.00	107.00	PA		L	
Footpath	0	107	107	0.50	53.50	PA		N	
Footpath	0	107	107	0.50	53.50	SD(1)	1	R	16
CL1	15		0.5	3.65	1.83	PJ		F	
CL1	35		0.5	3.65	1.83	PJ		F	
CL1	53		0.5	3.65	1.83	PJ		F	
CL1	73		0.5	3.65	1.83	PJ		F	
CL1	93		0.5	3.65	1.83	PJ		F	
CL1	103		0.5	3.65	1.83	PJ		F	
CL1	107	109	2	1.00	2.00	CZ(1)	1	L	17
Footpath	107	153	46	1.00	46.00	Soil		R	
CL1	108		0.5	3.65	1.83	J		F	
CL1	108	308	200	3.65	730.00	TSSC		F	
CL1	108	121	13	3.65	47.45	SD(2)	2	F	17
CL1	108	112	5	0.50	2.50	CR(1)	1	R	17
CL1	108	111	3	0.50	1.50	CR(2)	2	L	17
Footpath	109	112	3	1.00	3.00	I(MH)		L	
Footpath	111	112	1	1.00	1.00	I(MH)		N	
CL1	121		0.5	3.65	1.83	J		F	
Footpath	122		0.5	2.00	1.00	J		F	
CL1	122		0.5	0.50	0.25	I(G)		L	
CL1	135		0.5	0.50	0.25	I(G)		L	
LANE	WIDTH(m)	LENGTH(m)	AREA(m ²)	CR(1)	2.50	SD(1)	53.50	MP	0.00
Footpath	2.00	135.00	270.00	CR(2)	1.50	SD(2)	175.20	POT	0.00
CL1	3.65	135.00	492.75	CZ(1)	2.00	TC(1)	0.00	PF	0.00
				CZ(2)	0.00	TC(2)	0.00	TF	0.00
				FT(1)	0.00				
Total	5.65	270.00	762.75	FT(2)	0.00				

SURFACE TYPE

TSSC - Thin surfacing surface course, HRA - Hot Rolled Asphalt, HFSC - High Friction surface course

FEATURES

PJ - Plug Joints, MJ - Mechanical Joints, L - Loops, J - Construction Joints, N - Nodes, I - Ironwork, Mp - Marker Posts

FLEXIBLE DEFECTS

CR - Cracking, TC - Transverse Crack, CZ - Cracking, FT - Fattening, PF - Patch Failure, PA - Patch, POT - Pot Hole,

TF - Trench Failure, SD - Surface Defectiveness, MP - Mud Pumping, Dep - Depression

LJ (O) - Open Joint N = Narrow M = Moderate W = Wide

LOCATION

L - Left WT, R - Right WT, B - Both WT's, N - Neither, F - Full Width.

SEVERITY

Severity 1 - Major, 2 - Minor

VISUAL CONDITION SURVEY



Project				Direction	Job No.	Date			
Hoyland, Barnsley				WB	PTS22335-05	11/01/23			
Client		Contractor		Reference Section			Sheet No.		
Winvic Construction		PTS		Tankersley Lane			11 of 18		
Surveyor		Weather		GPS References			Length Surveyed		
LM		Damp		Start	E: 435256	N: 400035	308m		
				End	E: 434973	N: 399890			
LANE	CHAINAGE (m)		LENGTH (m)	WIDTH (m)	AREA (m ²)	FEATURE / DEFECT	SEVERITY	LOCATION	PHOTO REF
	START	END							
No Footpath @ Ch. 0m to 198m									
CL1	0	198	198	3.65	722.70	TSSC		F	19
CL1	8		0.5	3.65	1.83	J		F	
Turning lane (CL2) @ Ch. 57m to 105m									
CL2	57	105	48	3.65	175.20	TSSC		F	
CL1	61		0.5	0.50	0.25	I(G)		L	
CL1	89		0.5	0.50	0.25	I(G)		L	
CL1	112		0.5	0.50	0.25	I(G)		L	
CL1	131		0.5	0.50	0.25	I(G)		L	
CL1	145		0.5	0.50	0.25	I(G)		L	
CL1	169		0.5	0.50	0.25	I(G)		L	
CL1	183		0.5	0.50	0.25	I(G)		L	
CL1	185		0.5	3.65	1.83	J		F	
CL1	185	198	13	3.65	47.45	SD(2)	2	F	20
CL1	196		0.5	0.50	0.25	I(G)		L	
CL1	197	198	1	0.50	0.50	CR(2)	2	L	20
CL1	198		0.5	3.65	1.83	J		F	
CL1	198	308	110	3.65	401.50	HRA		F	
CL1	198	201	3	3.65	10.95	CZ(1)	1	F	20
Footpath	198	308	110	2.00	220.00	AC		F	
CL1	203		0.5	3.65	1.83	PJ		F	
CL1	214		0.5	3.65	1.83	PJ		F	
Footpath	215		0.5	0.50	0.25	I(MH)		R	
CL1	232		0.5	3.65	1.83	PJ		F	
Footpath	233		0.5	0.50	0.25	I(MH)		R	
CL1	253		0.5	3.65	1.83	PJ		F	
LANE	WIDTH(m)	LENGTH(m)	AREA(m ²)	CR(1)	0.00	SD(1)	0.00	MP	0.00
Footpath	2.00	55.00	110.00	CR(2)	0.50	SD(2)	47.45	POT	0.00
CL1	3.65	253.00	923.45	CZ(1)	10.95	TC(1)	0.00	PF	0.00
				CZ(2)	0.00	TC(2)	0.00	TF	0.00
				FT(1)	0.00				
Total	5.65	308.00	1033.45	FT(2)	0.00				

SURFACE TYPE

TSSC - Thin surfacing surface course, HRA - Hot Rolled Asphalt, HFSC - High Friction surface course

FEATURES

PJ - Plug Joints, MJ - Mechanical Joints, L - Loops, J - Construction Joints, N - Nodes, I - Ironwork, Mp - Marker Posts

FLEXIBLE DEFECTS

CR - Cracking, TC - Transverse Crack, CZ - Cracking, FT - Fattening, PF - Patch Failure, PA - Patch, POT - Pot Hole,

TF - Trench Failure, SD - Surface Defectiveness, MP - Mud Pumping, Dep - Depression

LJ (O) - Open Joint N = Narrow M = Moderate W = Wide

LOCATION

L - Left WT, R - Right WT, B - Both WT's, N - Neither, F - Full Width.

SEVERITY

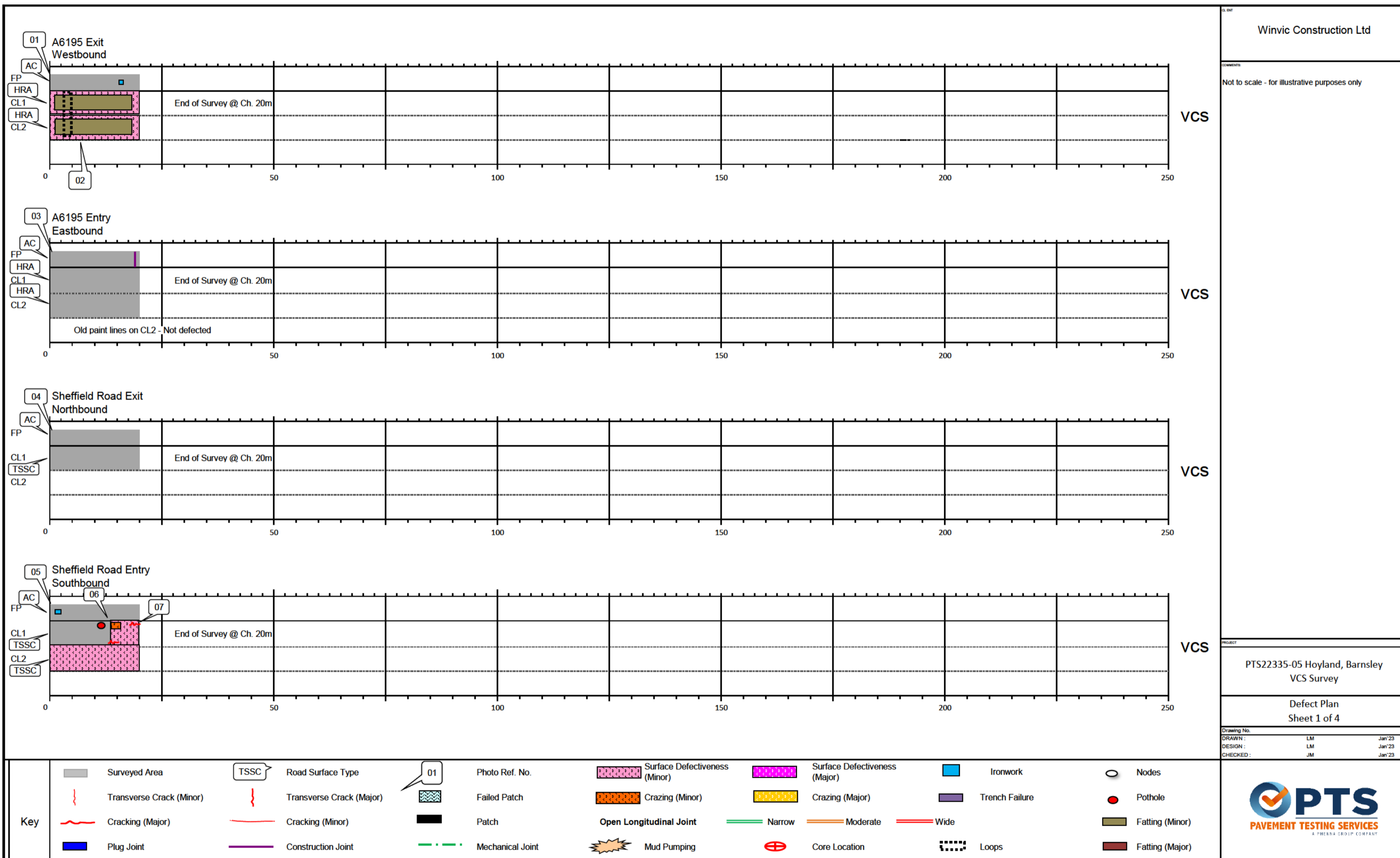
Severity 1 - Major, 2 - Minor



APPENDIX C

Schematics





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Not to scale - for illustrative purposes only

VCS

VCS

VCS

VCS

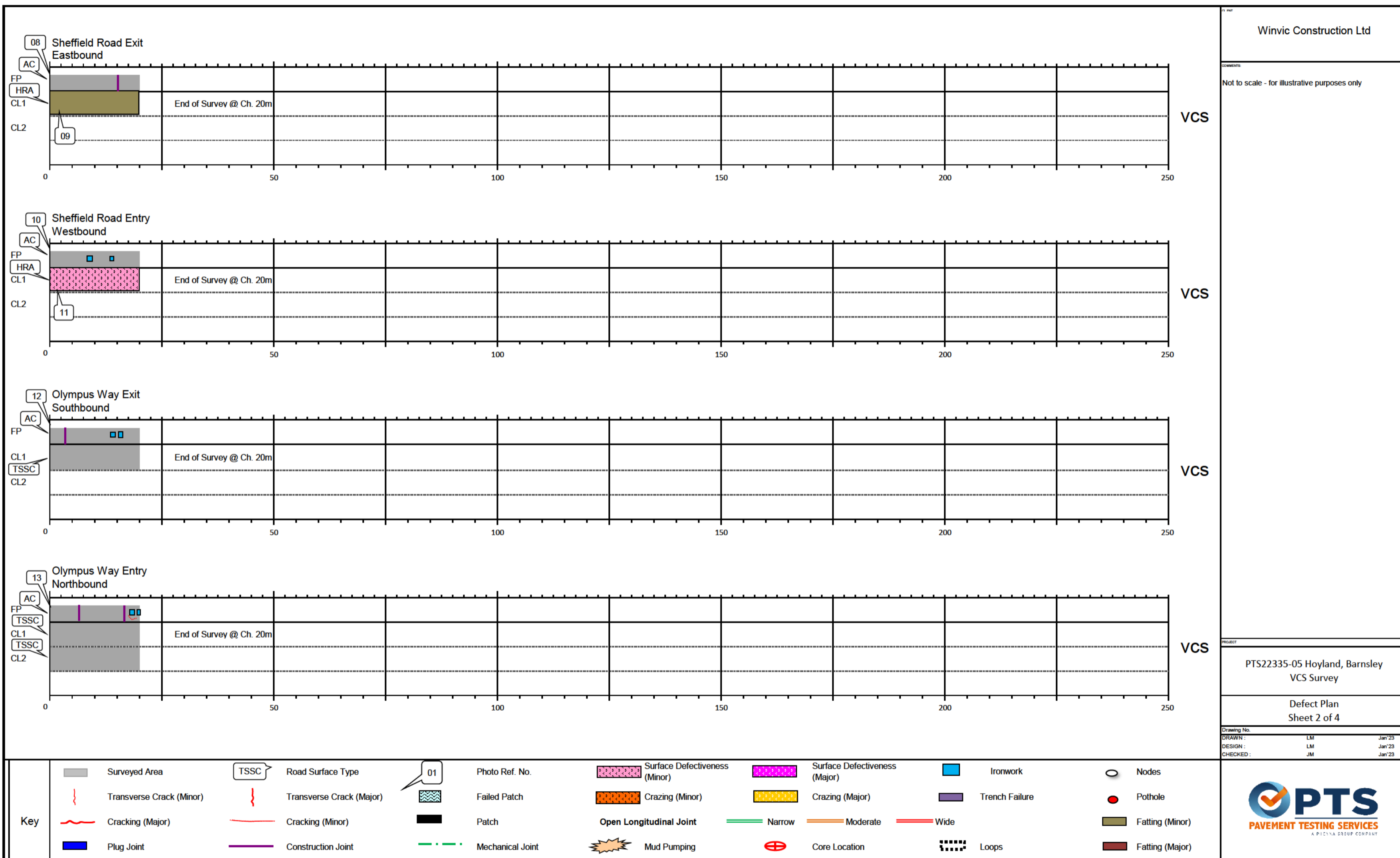
PTS22335-05 Hoyland, Barnsley
VCS Survey

Defect Plan
Sheet 1 of 4

Drawing No. LM Jan'23
 DRAWN: LM Jan'23
 DESIGN: LM Jan'23
 CHECKED: JM Jan'23

PTS
PAVEMENT TESTING SERVICES
A PHENIX GROUP COMPANY

Surveyed Area	Road Surface Type	Photo Ref. No.	Surface Defectiveness (Minor)	Surface Defectiveness (Major)	Ironwork	Nodes
Transverse Crack (Minor)	Transverse Crack (Major)	Failed Patch	Cracking (Minor)	Cracking (Major)	Trench Failure	Pothole
Cracking (Major)	Cracking (Minor)	Patch	Open Longitudinal Joint	Narrow	Moderate	Wide
Plug Joint	Construction Joint	Mechanical Joint	Mud Pumping	Core Location	Loops	Fattening (Minor)
						Fattening (Major)



Winvic Construction Ltd

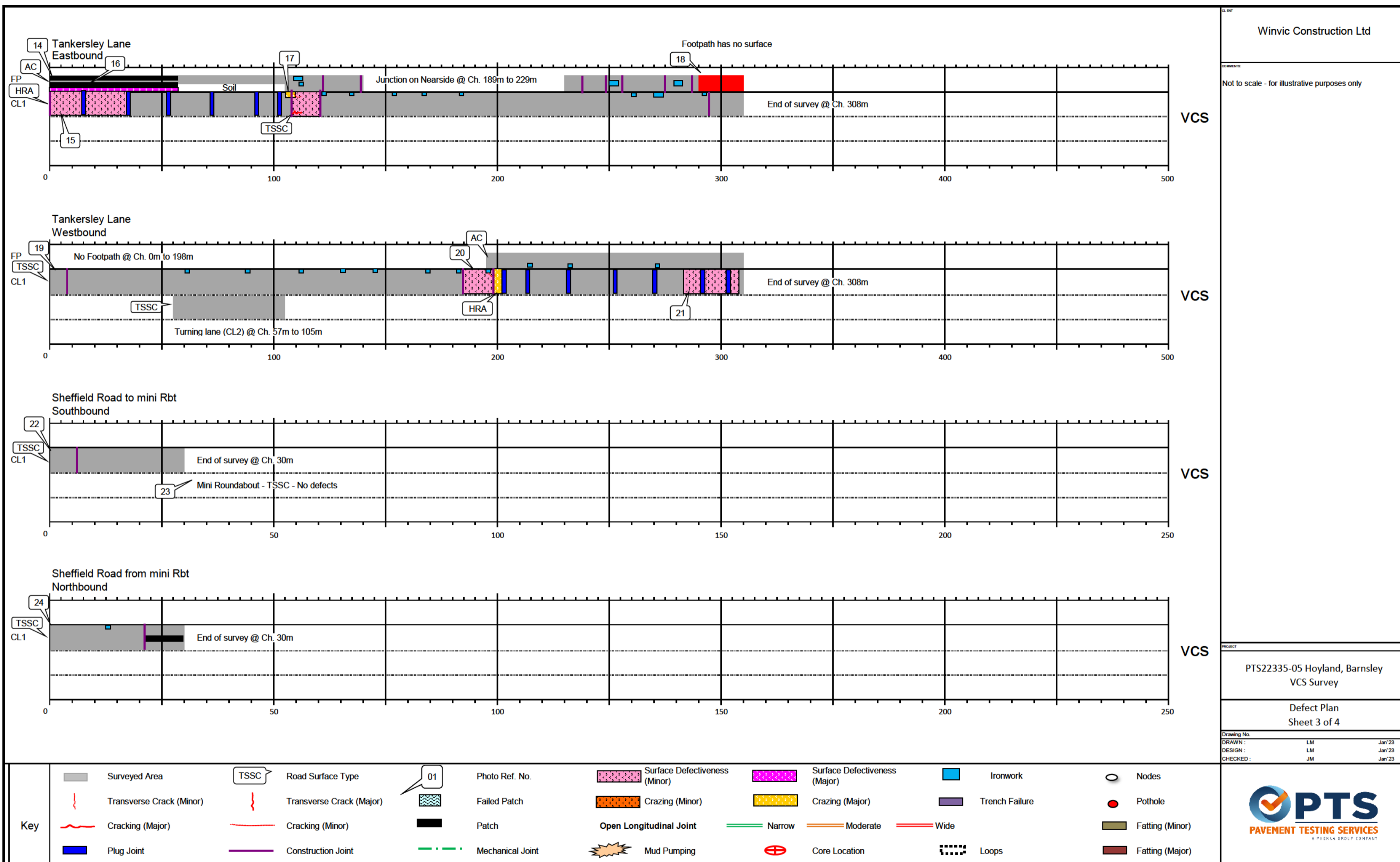
Not to scale - for illustrative purposes only

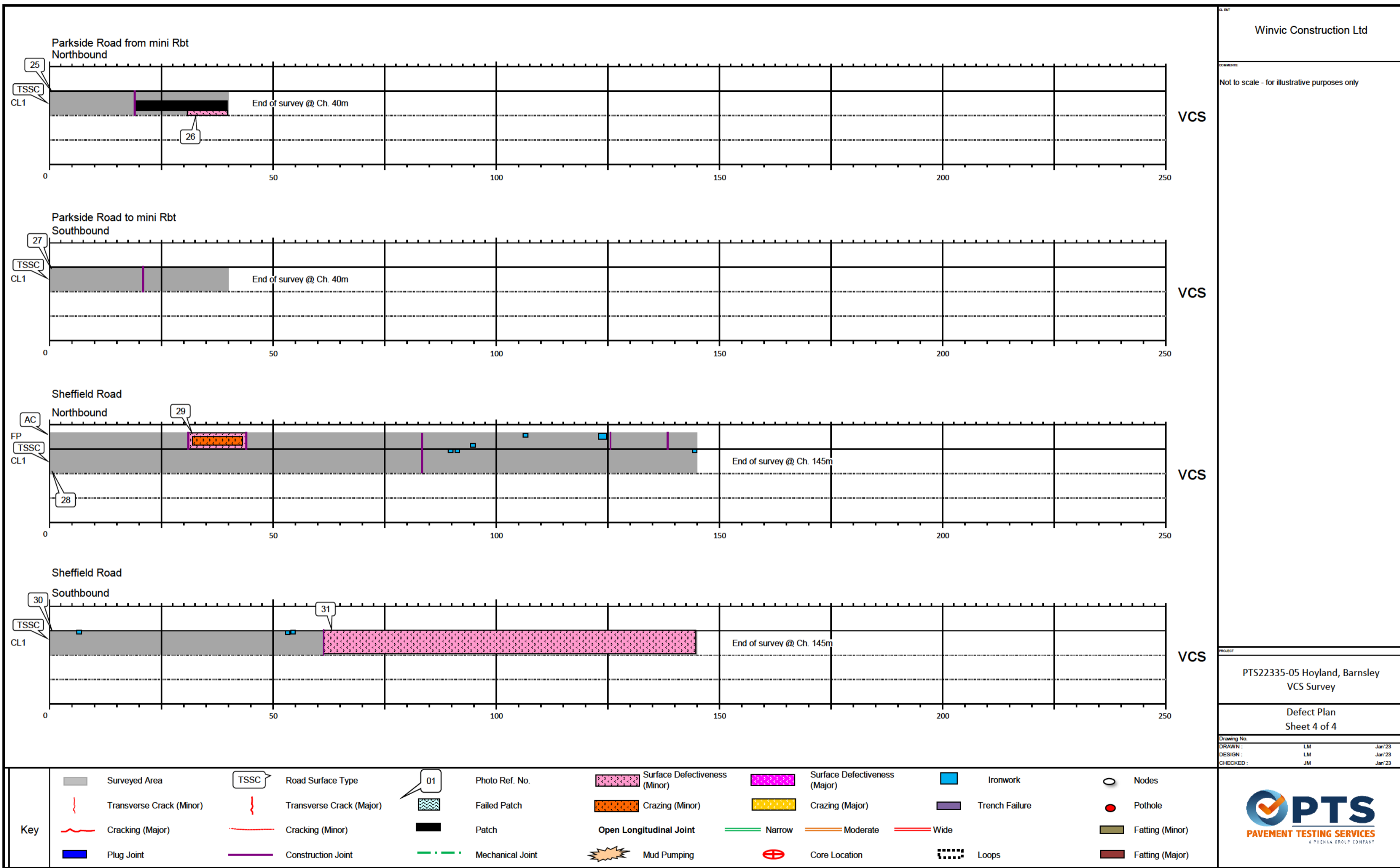
PTS22335-05 Hoyland, Barnsley
VCS Survey

Defect Plan
Sheet 2 of 4

Drawing No. LM Jan'23
 DESIGN: LM Jan'23
 CHECKED: JM Jan'23







Winvic Construction Ltd

Not to scale - for illustrative purposes only

PTS22335-05 Hoyland, Barnsley
VCS Survey

Defect Plan
Sheet 4 of 4

Drawing No.
DRAWN : LM Jan'23
DESIGN : LM Jan'23
CHECKED : JM Jan'23

Surveyed Area	Road Surface Type	Photo Ref. No.	Surface Defectiveness (Minor)	Surface Defectiveness (Major)	Ironwork	Nodes
Transverse Crack (Minor)	Transverse Crack (Major)	Failed Patch	Cracking (Minor)	Cracking (Major)	Trench Failure	Pothole
Cracking (Major)	Cracking (Minor)	Patch	Open Longitudinal Joint	Narrow	Moderate	Wide
Plug Joint	Construction Joint	Mechanical Joint	Mud Pumping	Core Location	Loops	Fattening (Minor)
						Fattening (Major)





APPENDIX D

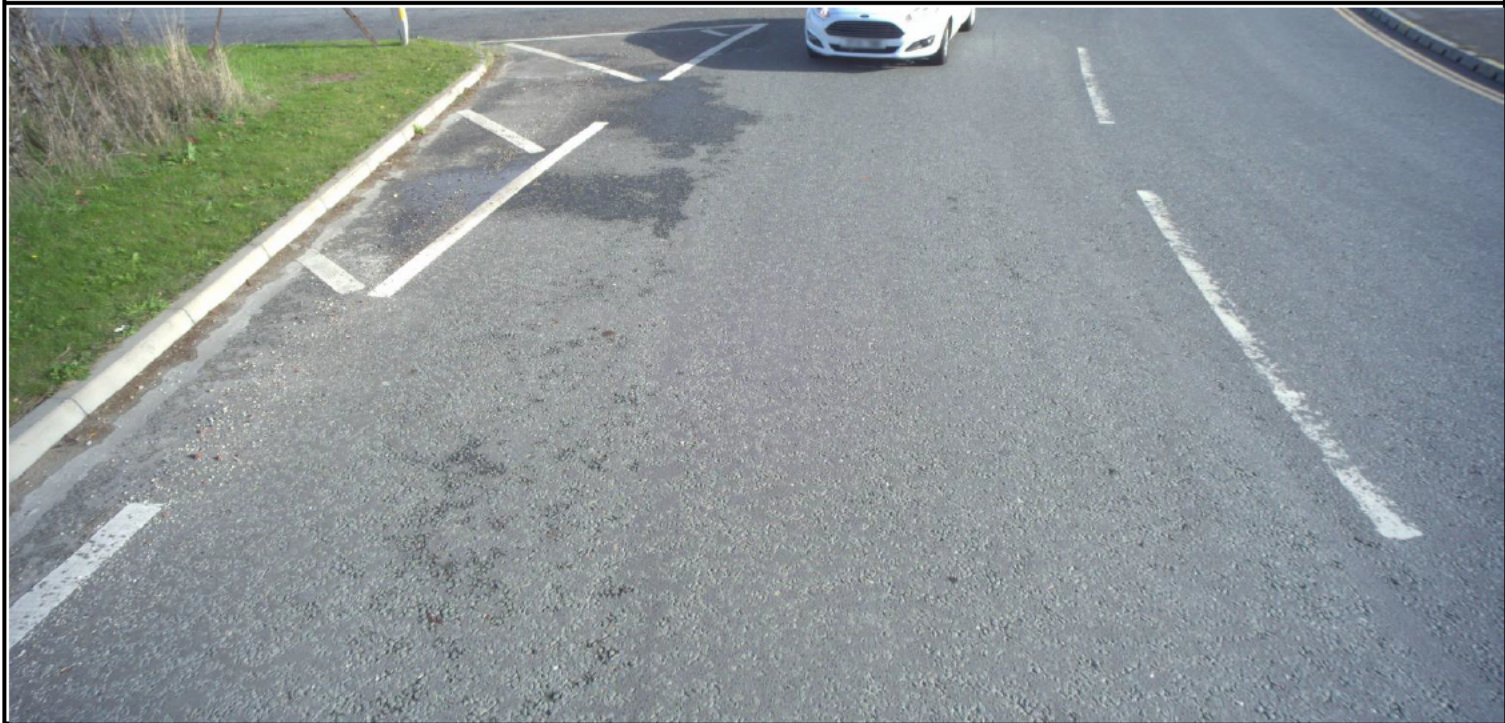
Photo Album

Hoyland, Barnsley VCS - Visit 2

Photo Ref : 1	Section : A6195 Exit
Chainage : 0	Feature / Defect : Start of survey



Photo Ref : 2	Section : A6195 Exit
Chainage : 0	Feature / Defect : Minor Surface Defectiveness



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 3

Section : A6195 Entry

Chainage : 0

Feature / Defect : Start of survey



Photo Ref : 4

Section : Sheffield Road Exit

Chainage : 0

Feature / Defect : Start of survey



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 5

Section : Sheffield Road Entry

Chainage : 0

Feature / Defect : Start of survey



Photo Ref : 6

Section : Sheffield Road Entry

Chainage : 12

Feature / Defect : Pothole/Major Cracking/Minor Cracking



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 7

Section : Sheffield Road Entry

Chainage : 19

Feature / Defect : Major Cracking



Photo Ref : 8

Section : Sheffield Road Exit

Chainage : 0

Feature / Defect : Start of survey



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 9

Section : Sheffield Road Exit

Chainage : 0

Feature / Defect : Minor Fattig



Photo Ref : 10

Section : Sheffield Road Entry

Chainage : 0

Feature / Defect : Start of survey



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 11

Section : Sheffield Road Entry

Chainage : 0

Feature / Defect : Minor Surface Defectiveness



Photo Ref : 12

Section : Olympus Way Exit

Chainage : 0

Feature / Defect : Start of survey



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 13

Section : Olympus Way Entry

Chainage : 0

Feature / Defect : Start of survey



Photo Ref : 14

Section : Tankersley Lane - EB

Chainage : 0

Feature / Defect : Start of survey



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 15

Section : Tankersley Lane - EB

Chainage : 0

Feature / Defect : Minor Surface Defectiveness



Photo Ref : 16

Section : Tankersley Lane - EB

Chainage : 0

Feature / Defect : Major Surface Defectiveness



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 17

Section : Tankersley Lane - EB

Chainage : 107

Feature / Defect : Major Cracking/SD(2)/Cracking



Photo Ref : 18

Section : Tankersley Lane - EB

Chainage : 291

Feature / Defect : No surface on Footpath



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 19

Section : Tankersley Lane - WB

Chainage : 0

Feature / Defect : Start of survey



Photo Ref : 20

Section : Tankersley Lane - WB

Chainage : 185

Feature / Defect : SD(2)/Minor Cracking/Major Cracking



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 21

Section : Tankersley Lane - WB

Chainage : 284

Feature / Defect : Minor Surface Defectiveness



Photo Ref : 22

Section : Sheffield Road to mini Rbt

Chainage : 0

Feature / Defect : Start of survey



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 23

Section : Sheffield Road - Mini Rbt

Chainage : 0

Feature / Defect : No Defects



Photo Ref : 24

Section : Sheffield Road from mini Rbt

Chainage : 0

Feature / Defect : Start of survey



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 25

Section : Parkside Road from mini Rbt

Chainage : 0

Feature / Defect : Start of survey



Photo Ref : 26

Section : Parkside Road from mini Rbt

Chainage : 31

Feature / Defect : Minor Surface Defectiveness



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 27

Section : Parkside Road to mini Rbt

Chainage : 0

Feature / Defect : Start of survey



Photo Ref : 28

Section : Sheffield Road - NB

Chainage : 0

Feature / Defect : Start of survey



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 29

Section : Sheffield Road - NB

Chainage : 31

Feature / Defect : SD(2)/Minor Cracking



Photo Ref : 30

Section : Sheffield Road - SB

Chainage : 0

Feature / Defect : Start of survey



Hoyland, Barnsley VCS - Visit 2

Photo Ref : 31	Section : Sheffield Road - SB
Chainage : 62	Feature / Defect : Minor Surface Defectiveness



Photo Ref :	Section :
Chainage :	Feature / Defect :