

Project Name: St Stephens Road Canterbury

Scope: 180 meters Track drainage

Client: Keltbray Rail

Approximate Value: £150k

Duration: Week 49 06.00hrs on 06/03/21 to 23.00 on 06/03/21

Description of Services:

- Planning, methodology and site surveys
- Supply RRVs plant, equipment, labour and materials
- Track Surveying and setting out
- Track Hand back and train loader checks

SITE PLAN

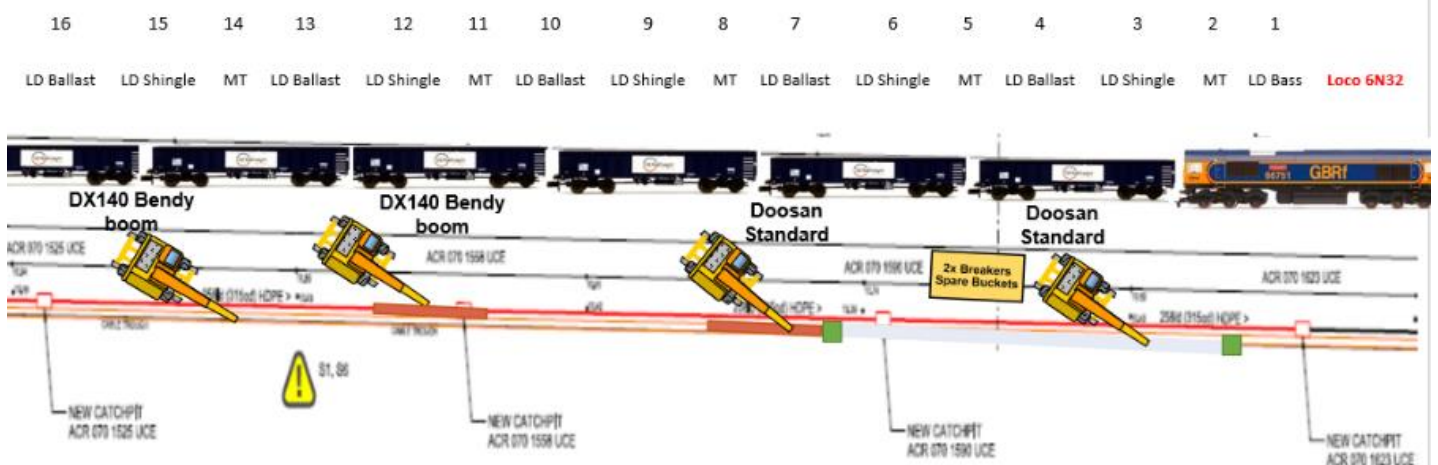


RRV Attachments	No
4 Leg Chains	4
Trailer & Ballast Box	1
Clamshell	2
Digging Buckets	4
Breaker	2
Dect COMMs	4

Excavation Direction



Train Consist



Site Photos



Project Name: Ilford Under track crossings

Scope: 2 Track UTX

Client: BCM

Approximate Value: £60,000 - £90,000

Duration: Week 33 06.00hrs on 03/11/20 to 23.00 on 03/11/20

Description of Services:

- Planning, methodology and site surveys
- Installation of Twin-track UTX and associated chambers
- Track Surveying and Track Hand back
- Supply RRVs plant, equipment, labour and materials

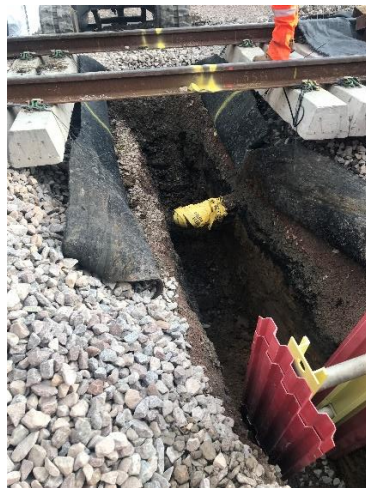
Heavy Plant and Equipment used

1 x RRV + attachments
2 x Trailers & Boxes
1 x 5t Mini excavator & Telehandler
1 x Breaker
1 x clamshell + bucket

Outline methodology

Undertake a full non-intrusive survey of the works area and setup base line readings for track monitoring

Trained operatives installed the MGF Gripshore temporary works in accordance to the Temporary works design



While the trench is open, gas monitors were placed to monitor and record air content and quality prior to entry. Gas detection will be monitored & recorded throughout the works to ensure safety of all operatives entering the trenched excavations.

The UTX duct was installed and earthworks reinstated progressively, carefully backfilling and compacting in accordance with specifications

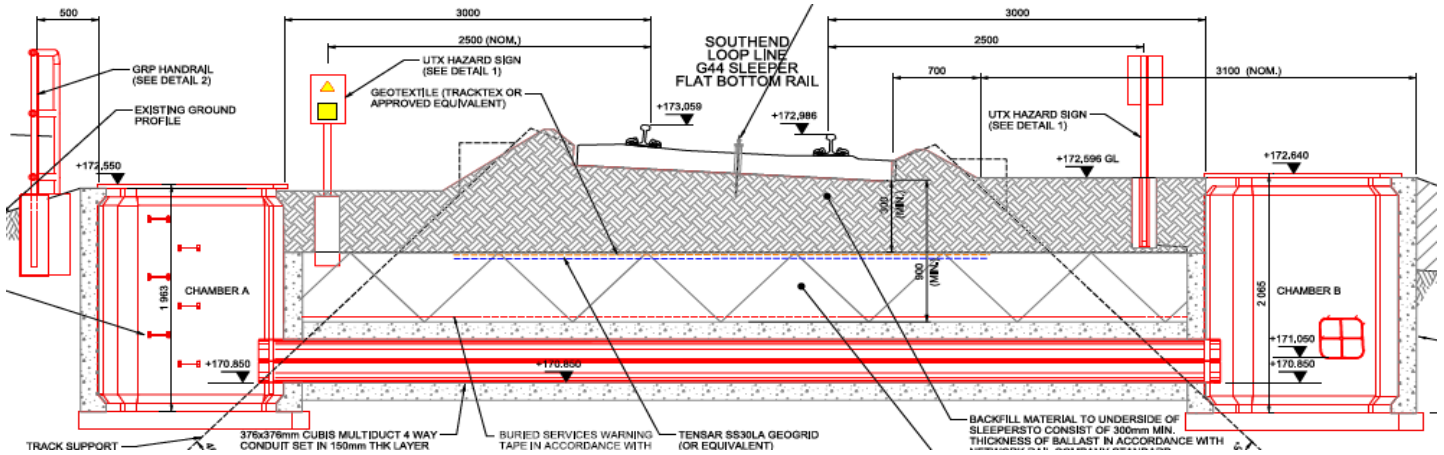
Waste materials were loaded into 1 tonne bags onto the RRV trailer transported to the site access

ASH CONSTRUCTION GROUP

Case Study Track Drainage and UTX's



where a telehandler removed the bags to a storage area. At the end of the possession grab lorries collected spoil and waste and transferred to a licensed land fill. Robel Kango Packers used to compact the new track ballast along all disturbed areas and a full track survey completed using our Amberg Track trolley



ASH CONSTRUCTION GROUP

Case Study Track Drainage and UTX's



Project Name: Crayford

Scope: 100m of New Pipe works, UTX Install & Cutting and Lining of existing drainage

Client: Keltbray Rail

Approximate Value: £150k

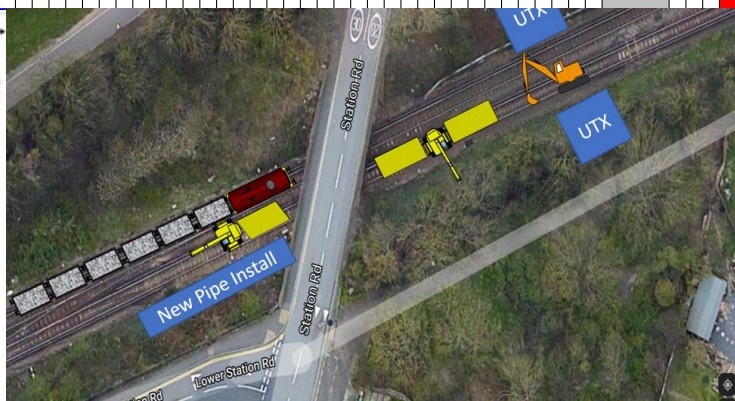
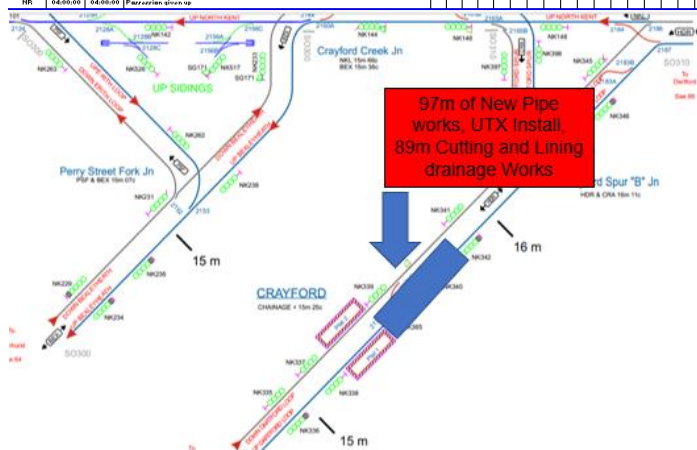
Duration: Week 13 06.00hrs on 06/03/21 to 23.00 on 06/03/21

Description of Services:

- 97m of New Pipe works, UTX Install, 89m Cutting and Lining drainage Works
- Weekend possession- Delivery and Installation of drainage, lining old pipes and UTX
- Planning, methodology and site surveys
- Supply RRVs plant, equipment, labour and materials
- Track Surveying and setting out
- Track Hand back and train loader checks

Owner	Start	Finish	
			Line Blockage Prep work
Tuesday	22:00:00	03:00:00	Travel to Site Clearance 15m - 03:00 - 15m - 10:30 by 8 am with survey
Wednesday	22:00:00	03:00:00	Travel to Site Clearance and Preparation of Cables works at 15m - 10:30 - 15m - 10:30
Thursday	22:00:00	03:00:00	Travel to Site Clearance and Preparation of Cables works at 15m - 10:30 - 15m - 10:30
			Week 13 Possession work
Keltbray	22:00:00	23:00:00	Set up SAC and welfare facility's and compound
Keltbray	23:00:00	01:00:00	Delivery of on track plant
Keltbray	01:00:00	02:00:00	Machinists check and PPE briefing
Keltbray	02:55:00	02:55:00	Permit to work issued
Keltbray	01:55:00	01:55:00	TPAT - Train 6018 Arrives on Dr. Dartford Loop @ SIG NK339 PAP 01:15
Keltbray	02:55:00	03:30:00	ES Takeover worksite
Keltbray	04:00:00	04:00:00	Sign in with ES, site brief (Task brief, COSE brief, COVID-19 Briefing)
Keltbray	04:20:00	05:30:00	Site setup and site lighting
Keltbray	05:00:00	07:00:00	Remove TEE cables from current signal
Keltbray	05:00:00	07:00:00	Set up Level and EDRT's Up Dartford Loop / OAT from Form to site
Keltbray	06:30:00	07:00:00	Load RRV's at RRP and track to site
Keltbray	06:00:00	07:00:00	Have train stop at Station Dr. Road
Keltbray	07:00:00	08:00:00	Unloading and distribution of materials throughout site
			DRAINAGE WORKING HOURS 07:30 - 22:30
			CRITICAL WORKING TIME OF 15 HOURS - Excavation and Backfilling works
Keltbray	07:30:00	09:00:00	Excavate and install catchpit 1 @ 15m - 09:45
Keltbray	07:30:00	09:00:00	Start to excavate pipe and concrete UTX @ 15m - 10:30 - Up Cur
Keltbray	08:00:00	11:30:00	Start to Excavate run 18.2 from 15m - 09:30
Keltbray	10:00:00	15:00:00	Backfill run 18.2 from 15m - 09:30
Keltbray	07:30:00	09:00:00	Excavate and install catchpit @ 15m - 10:30
Keltbray	09:00:00	11:30:00	Backfill to 15m - 07:45
Keltbray	10:30:00	13:00:00	Excavate and install catchpit 2 @ 15m - 07:45
Keltbray	10:30:00	13:00:00	Backfill UTX @ 15m - 10:45 - Up cur
Keltbray	12:00:00	15:00:00	Start to Excavate UTX @ 15m - 10:30 - 10:30 and Down road
Keltbray	15:00:00	19:00:00	Backfill UTX @ 15m - 10:30 by Down Cur
Keltbray	12:00:00	15:00:00	Additional install new Catchpit @ 15m - 10:45
Keltbray	16:00:00	22:00:00	Start to Keep up Cur Road and Pack the UTX down road section
Keltbray	16:00:00	06:00:00	Hand back equipment to check track geometry throughout site of work
Keltbray	22:00:00	23:00:00	RRV's Leave Site / Off track
Keltbray	16:00:00	23:00:00	Safe Leader to check train frequency and all before last RRV's over
Keltbray	20:00:00	23:59:00	Have train off Road until the final final Keep up cur and Hand back checks
Keltbray	20:00:00	23:59:00	Remove and conduct rail Call
Keltbray	23:00:00	00:00:00	ES give up worksite
Keltbray	02:45:00	04:00:00	Equipment Train to Leave Possession 04:00 per PTO
NR	02:45:00	02:45:00	the DRTOP flow back time for NR
NR	04:00:00	04:00:00	Permit to work close

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Site Photos



Project Name: Shalford UTX

Scope: 2 Track UTX

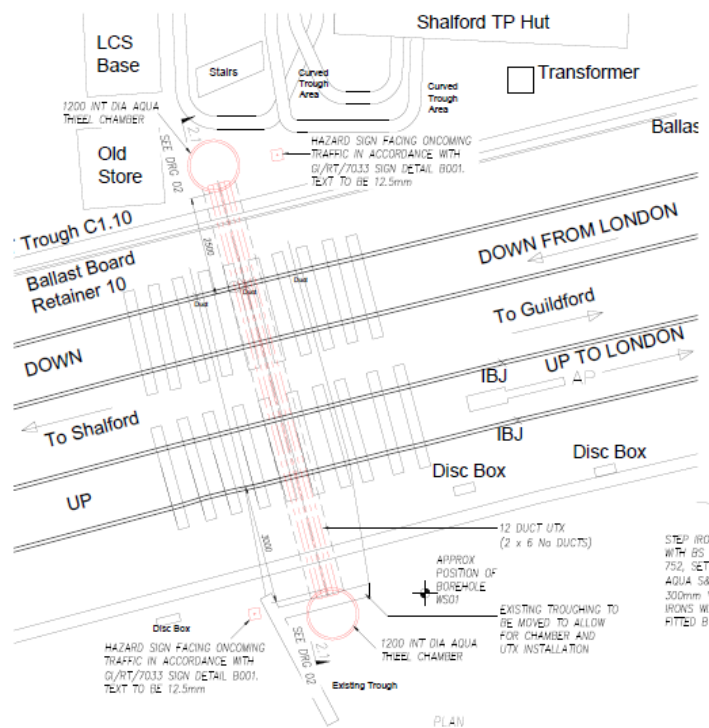
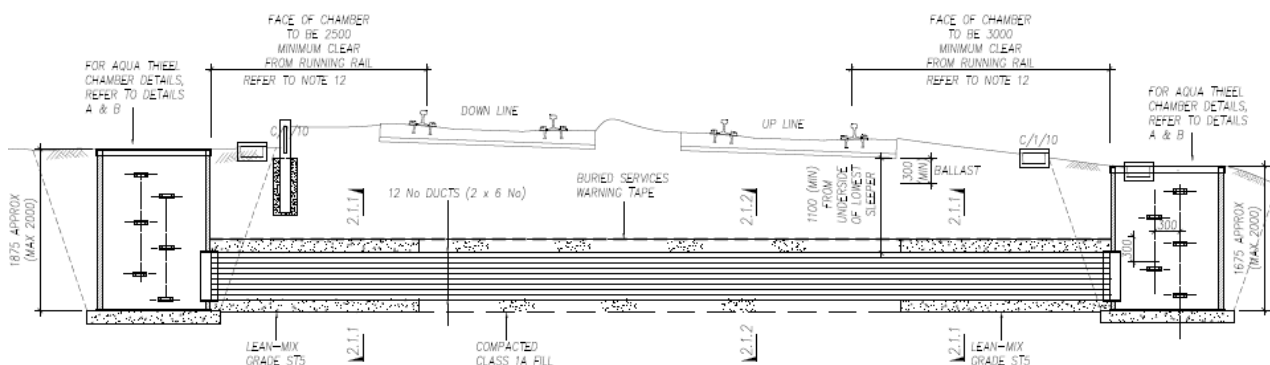
Client: RJ Power

Approximate Value: £80k

Duration: Week 39 05.00hrs on 23/12/20 to 23.00 on 24/12/20

Description of Services:

- 27 hrs possession
- 2 Track UTX with 9 way Carson Units
- Planning, methodology and site surveys and track monitoring
- Supply RRVs plant, equipment, labour and materials
- UTX Surveying and setting out
- Track Hand back



Site Photos



Post installation Track Monitoring

SITE	Shalford TP Hut UTX Track Monitoring										Date	30/12/2020		
Down Main Line UTX		49m 1052yds - 49m 1331yds										Results		
WORK COMPLETED BY Mark Beneyto														
DOWN MAIN 6ft				DOWN MAIN CESS				DOWN MAIN LINE				GAUGE		
		Elevation		Eastings		Cant		Base		Today's		Today's	Today's	Base
Metres	Target	Dif'	Dif'	Target	Dif'	Dif'	Dif'	Target	Cant	Cant	Twst	GRADIENT	4ft	
0	DM6FT1	-0.001	0.002	DMCESS1	0.000	0.002	-0.001	1	72	71			1437	
3	DM6FT2	0.000	0.002	DMCESS2	0.000	0.001	0.000	2	73	73	-2	1in-1500	1438	
6	DM6FT3	-0.001	0.001	DMCESS3	0.000	0.002	-0.001	3	71	70	3	1in1000	1438	
9	DM6FT4	0.000	0.001	DMCESS4	0.000	0.002	0.000	4	69	69	1	1in3000	1437	
12	DM6FT5	-0.001	0.003	DMCESS5	-0.001	0.002	0.000	5	69	69	0		1437	
15	DM6FT6	0.000	0.001	DMCESS6	0.000	0.001	0.000	6	67	67	2	1in1500	1436	
18	DM6FT7	0.000	0.001	DMCESS7	0.000	0.001	0.000	7	66	66	1	1in3000	1437	
21	DM6FT8	0.000	0.000	DMCESS8	0.000	0.002	0.000	8	64	64	2	1in1500	1438	
24	DM6FT9	0.000	0.000	DMCESS9	0.000	0.002	0.000	9	61	61	3	1in1000	1437	
27	DM6FT10	0.000	0.001	DMCESS10	0.001	0.002	-0.001	10	58	57	4	1in750	1439	
30	DM6FT11	0.000	0.000	DMCESS11	0.002	0.002	-0.002	11	54	52	5	1in600	1437	
33	DM6FT12	0.000	0.001	DMCESS12	0.001	0.001	-0.001	12	52	51	1	1in3000	1438	
36	DM6FT13	0.001	0.000	DMCESS13	0.000	0.000	0.001	13	49	50	1	1in3000	1437	
39	DM6FT14	0.001	-0.001	DMCESS14	0.000	0.000	0.001	14	45	46	4	1in750	1438	
42	DM6FT15	0.000	0.000	DMCESS15	0.000	-0.001	0.000	15	42	42	4	1in750	1438	
45	DM6FT16	0.000	0.000	DMCESS16	0.000	0.000	0.000	16	38	38	4	1in750	1438	
48	DM6FT17	0.000	0.000	DMCESS17	0.000	0.000	0.000	17	35	35	3	1in1000	1438	
51	DM6FT18	0.000	-0.001	DMCESS18	0.000	0.000	0.000	18	30	30	5	1in600	1438	
54	DM6FT19	0.000	0.000	DMCESS19	0.000	0.000	0.000	19	26	26	4	1in750	1440	
57	DM6FT20	0.000	0.000	DMCESS20	0.000	-0.001	0.000	20	23	23	3	1in1000	1437	
60	DM6FT21	0.000	-0.001	DMCESS21	0.000	0.000	0.000	21	20	20	3	1in1000	1438	

