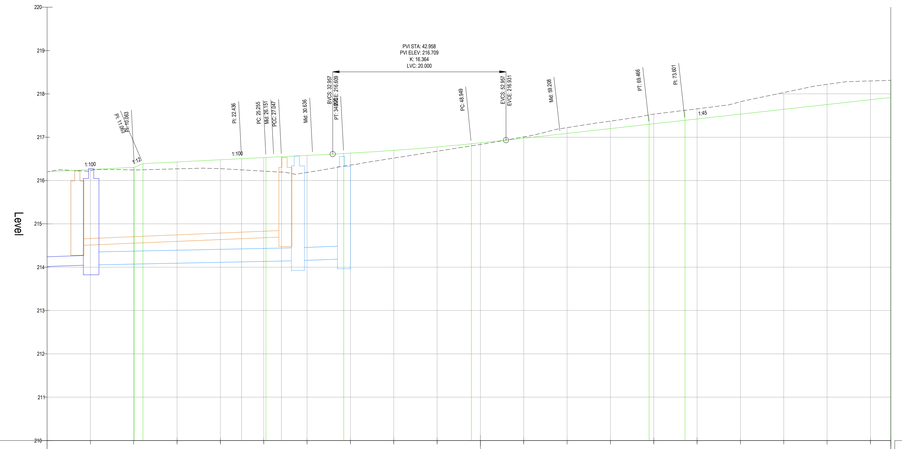
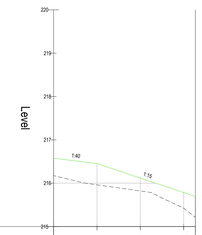


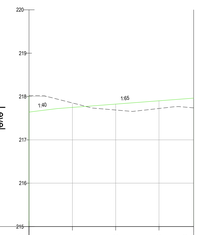
Chainage	00.000	00.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	97.351
Existing Levels	216.024	216.229	216.243	216.289	216.273	216.217	216.166	216.067	216.017	216.073	216.033	217.007	217.221	217.271	217.322	217.655	217.818	218.031	218.220	218.299	218.312
Proposed Levels	216.204	216.254	216.304	216.429	216.479	216.529	216.579	216.631	216.656	216.774	216.868	216.977	217.088	217.198	217.310	217.421	217.532	217.643	217.754	217.865	217.918
Horizontal Geometry	L =10.063	L =11.000	L =11.373	L =2.819	R: 4.750 L: 1.750	R: 26.304 L: 7.179	L =14.723	R: 20.031 L: 20.517		L =4.135	L =23.750										
Vertical Geometry	G =1.000% L =10.064	G =9.545% L =1.000	G =1.000% L =21.893			R =1637.031 K =16.364 L =20.000			G =2.222% L =48.517												
Surface Water CL	SW14 216.376					SW11 216.466		SW8 216.564													
Surface Water IL	214.050					214.150		214.350													
Surface Water Details	S14 225Ø 1:149.7 40.5m				S11 300Ø 1:237.23 70.7m			S8 300Ø 1:152.7 36.3m													
Foul Water CL	FW03 216.231					FW6 216.532															
Foul Water IL	214.500					214.700															
Foul Water Details	F6 150Ø 1:121.24 27.1m																				

R1 - LONGSECTION
SCALE: H 1:250,V 1:50. DATUM: 210.000



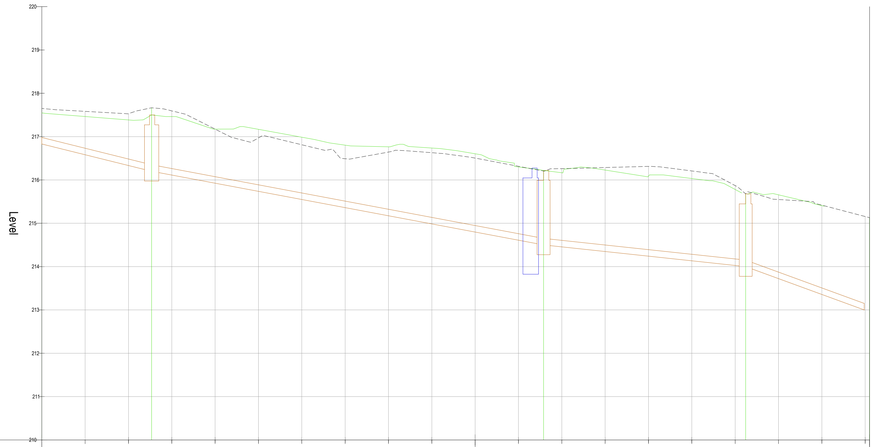
Chainage	00.000	05.000	10.000	15.000
Existing Levels	216.175	215.962	216.503	216.54 216.54
Proposed Levels	216.076	216.451	216.117	216.186 216.186
Horizontal Geometry	L =16.351			
Vertical Geometry	G =-2.500% L =5.396	G =-6.667% L =11.391		
Surface Water CL				
Surface Water IL				
Surface Water Details				
Foul Water CL				
Foul Water IL				
Foul Water Details				

R1 TH1 - LONGSECTION
SCALE: H 1:250,V 1:50. DATUM: 215.000



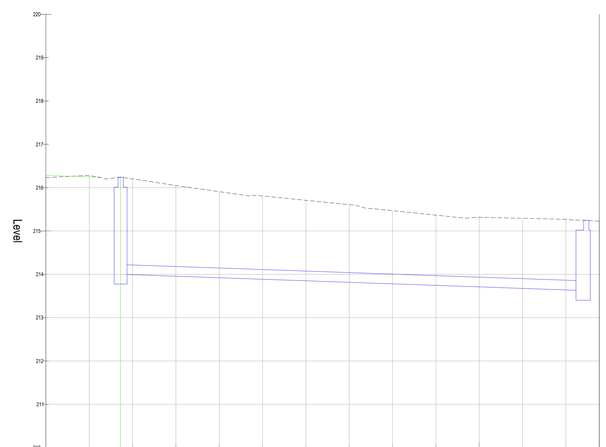
Chainage	00.000	00.000	10.000	15.000	19.000
Existing Levels	218.024	217.851	217.689	217.724	217.738
Proposed Levels	217.440	217.748	217.625	217.502	217.383
Horizontal Geometry	L =19.000				
Vertical Geometry	G =2.900% L =5.252	G =1.538% L =15.748			
Surface Water CL					
Surface Water IL					
Surface Water Details					
Foul Water CL					
Foul Water IL					
Foul Water Details					

R1 TH2 - LONGSECTION
SCALE: H 1:250,V 1:50. DATUM: 215.000



Chainage	00.000	00.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	98.000 98.000 98.000
Existing Levels	217.060	217.063	217.029	217.084	217.173	217.171	216.812	216.483	216.643	216.629	216.600	216.315	216.281	216.287	216.313	216.351	215.873	215.549	215.418	215.128 215.128 215.128
Proposed Levels	217.347	217.464	217.386	217.482	217.173	217.169	216.986	216.804	216.764	216.737	216.664	216.300	216.187	216.227	216.266	216.033	215.780	215.657	215.458		
Surface Water CL												SW14 216.376									
Surface Water IL												214.050									
Surface Water Details																					
Foul Water CL			FW01 217.301										FW02 216.231					FW03 215.478			
Foul Water IL			216.200										214.500					214.500			
Foul Water Details		FD1.000 150Ø 1:20 12.673m				FD1.001 150Ø 1:27.45 222m								FD1.002 150Ø 1:47.23 319m					FD1.003 150Ø 1:14 13.670m		

DIVERTED FOUL WATER - LONGSECTION
SCALE: H 1:250,V 1:50. DATUM: 210.000



Chainage	00.000	05.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	63.851
Existing Levels	216.231	216.079	216.202	216.000	215.807	215.807	215.737	215.637	215.668	215.366	215.316	215.269	215.269	215.227
Proposed Levels	216.288	216.253												
Surface Water CL			SW15 216.376										SW16 215.408	
Surface Water IL			214.086										213.063	
Surface Water Details				S15 225Ø 1:142.53 367m										
Foul Water CL														
Foul Water IL														
Foul Water Details														

SW14 - SW16 - LONGSECTION
SCALE: H 1:250,V 1:50. DATUM: 210.000

DESIGN RISK NOTES:

1. IN ACCORDANCE WITH THE CONSTRUCTION (DESIGN & MANAGEMENT) REGULATIONS 2015, IT IS THE POLICY OF THIS PRACTICE TO 'DESIGN OUT AS MANY IDENTIFIABLE RISKS AS POSSIBLE FOR THE CONSTRUCTION, OPERATION AND MAINTENANCE OF THE PROJECT.
2. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PRE CONSTRUCTION INFORMATION WHICH IS DEFINED IN THE CONSTRUCTION (DESIGN & MANAGEMENT) REGULATIONS 2015.
3. A COMPETENT CONTRACTOR SHOULD BE AWARE OF 'NORMAL' RISKS INVOLVED WITH THE CONSTRUCTION PROCESS. HOWEVER ADDITIONAL PRECAUTIONS WILL NEED TO BE CONSIDERED FOR THE FOLLOWING RISKS:
   A) NONE IDENTIFIED.
4. SAFE METHODS AND SYSTEMS OF WORK REMAIN THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE IDENTIFIED IN THE CONSTRUCTION PHASE PLAN. THE CONSTRUCTION PHASE PLAN MUST BE IN PLACE PRIOR TO THE START OF ANY MOBILIZATION OR SITE WORKS.
5. RESIDUAL RISKS THAT HAVE BEEN IDENTIFIED AND CANNOT BE 'DESIGNED OUT' ARE AS FOLLOWS:
   A) NONE IDENTIFIED.
6. IF ANY PARTY USING THIS DRAWING CONSIDERS THAT THERE ARE 'ABNORMAL' RISKS THAT HAVE NOT BEEN IDENTIFIED ABOVE, THEN THE ENGINEER SHOULD BE NOTIFIED.

ADDITIONAL HEALTH & SAFETY NOTES:

1. CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.

ROADS & DRAINAGE

2. CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES IN ORDER TO INSTALLING DRAINAGE.
3. THE TIME THAT TRENCHES ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
4. CONNECTING TO EXISTING SEWERS TO BE MADE BY APPROVED CONTRACTOR ONLY.
5. CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS LEPTOSPIROSIS (WEIL'S DISEASE) AND RECOMMENDED PRECAUTIONS. ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
6. UNFINISHED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIER.

PIPES & CABLES

7. CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
8. SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.

EXCAVATION/FILL

9. CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
10. CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
11. CONTRACTOR TO REFER TO GROUND INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.
12.

EXISTING LEVELS
PROPOSED LEVELS
PROPOSED ADOPTED SW
PROPOSED ADOPTED FW
PROPOSED PRIVATE SW
PROPOSED PRIVATE FW

Date	Revisions	Drawn	Checked	Rev
17.11.2025	FWA,SWB,SWIT & SWIA CHANGED TO PRIVAATE	NA	AE	6
13.11.2025	FWA,SWB,SWIT & SWIA CHANGED TO ADOPTABLE	SR	AE	5
04.08.2025	DIVERTED FOUL AMENDED TO SUIT NEW OUTFALL LOCATION	NA	AE	4
21.07.2025	AMENDED TO SUIT REVISED LAYOUT	NA	AE	3
30.09.2024	AMENDED TO SUIT REVISED LAYOUT	NA	AE	2
24.11.2023	FIRST ISSUE	PAS	AE	1

Dwg Status: TENDER

NORTH EAST
0191 3589432

YORKSHIRE
0113 535 3500

CONSULTING ENGINEERS
WWW.RWG.GROUP
INFO@RWG.GROUP

Client
YORKSHIRE COUNTY PROPERTIES

Project
DENBY LANE
GRANGE MOOR

Title
LONGSECTIONS

DO NOT SCALE	Scale @ A0:250	Drawn PAS	Checked AE	Date 20.11.2023
Job No Y22054		Dwg No D901		Rev 6