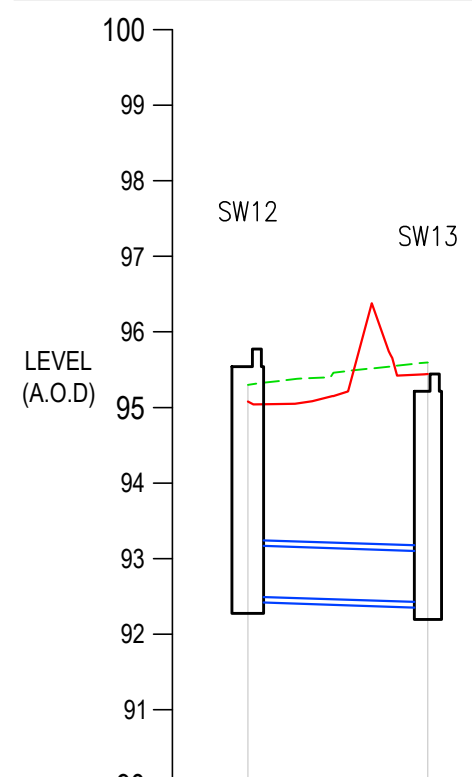
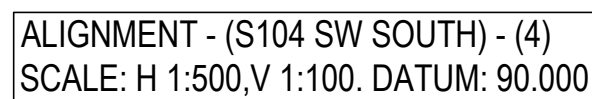
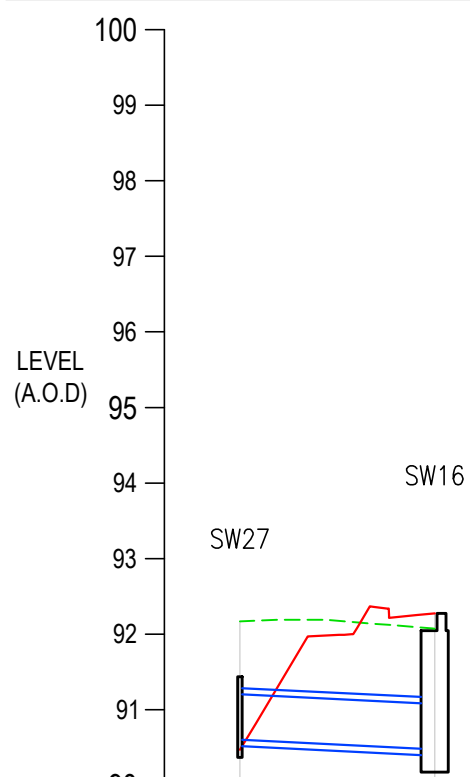
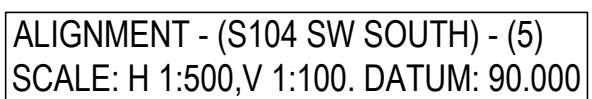
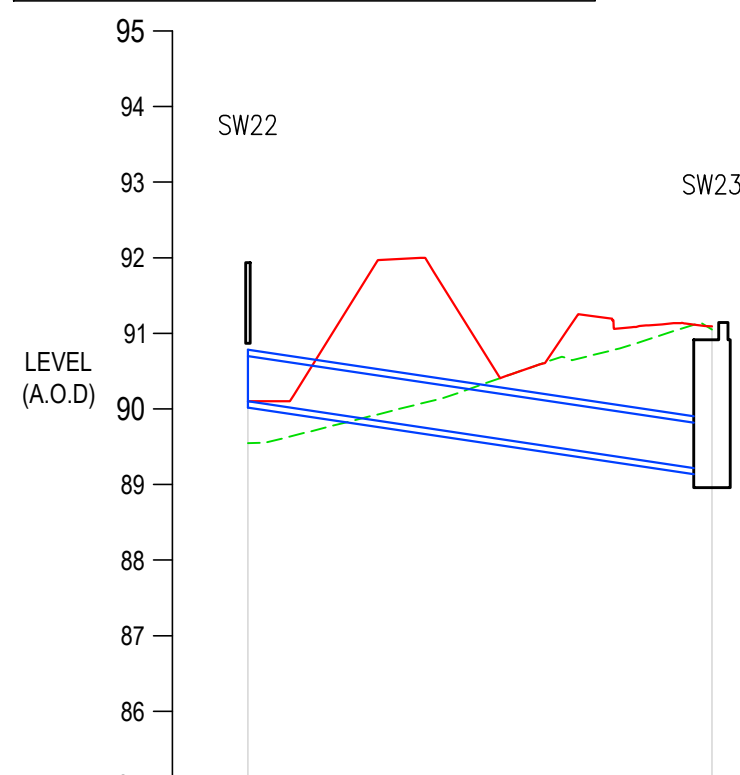
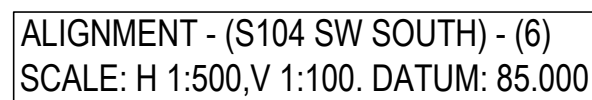




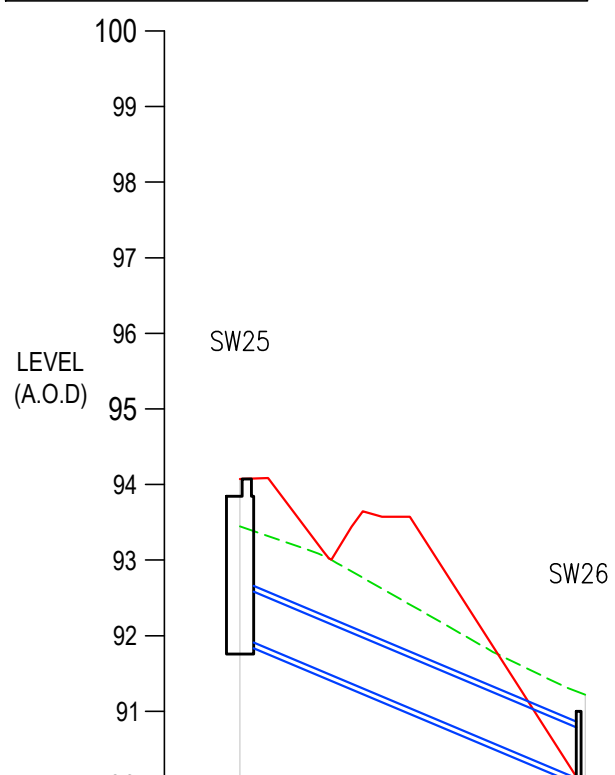
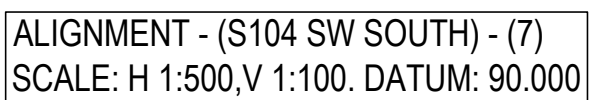
EXISTING LEVELS (DASHED GREEN LINE)	95.079	95.422
PROPOSED LEVELS (SOLID RED LINE)	95.079	95.441
S104 SW SOUTH COVER AND INVERT	CL 95.77 US 92.500 DS 92.421	CL 95.44 CONC 11.905m 1:151
PIPE NAME DIAMETER MATERIAL LENGTH SLOPE	2,000 675mm CONC 11.905m 1:151	



EXISTING LEVELS (DASHED GREEN LINE)	90.473			92.219
PROPOSED LEVELS (SOLID RED LINE)	90.473	91.991	92.219	92.254
S104 SW SOUTH COVER AND INVERT	CL 91.44	US 90.605 DS 90.476		CL 92.28
PIPE NAME DIAMETER MATERIAL LENGTH SLOPE		Pipe134 600mm CONC 12.883m 1:100		



EXISTING LEVELS (DASHED GREEN LINE)	90.100	91.983	90.711	91.104
PROPOSED LEVELS (SOLID RED LINE)	90.100	91.970 91.983	90.407 90.711 91.253	91.119 91.104
\$104 SW SOUTH COVER AND INVERT	CL 91.93	US 90.100 DS 89.183		CL 91.14
PIPE NAME DIAMETER MATERIAL LENGTH SLOPE		3.000 600mm CONC 30.697m 1:33		



EXISTING LEVELS (DASHED GREEN LINE)	94.073	93.574	90.837
PROPOSED LEVELS (SOLID RED LINE)	94.073	93.108	93.574
S104 SW SOUTH COVER AND INVERT	CL 94.07	US 91.984 DS 90.100	CL 91.00
PIPE NAME		Pipe132	
DIAMETER		675mm	
MATERIAL		CONC	
LENGTH		22.401m	
SLOPE		1:12	

ALL PIPES BEDDING CLASS "S" UNLESS OTHERWISE NOTED

CRUSHING STRENGTH 40kN/m FOR CLAY 100Ø

CRUSHING STRENGTH 40kN/m FOR CLAY 150Ø

CRUSHING STRENGTH 45kN/m FOR CLAY 225Ø

CRUSHING STRENGTH 72kN/m FOR CLAY 300Ø

CONCRETE CRUSHING STRENGTH, CLASS 120 TO EN 1916 / BS 5911:2002

GENERAL NOTES:

YORKSHIRE WATER NOTES

1. ALL ADAPTABLE SEWER WORKS AND MATERIAL, TO BE IN ACCORDANCE WITH "CODE FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATERS' STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED
2. MANHOLE COVERS SHALL MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
4. YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADAPTABLE DRAINAGE SYSTEM DIRECTLY OR INDIRECTLY. AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION WITH REGARDS TO THE DISPOSAL OF FILTER DRAIN/LAND DRAIN RUN-OFF.
5. COVER SLABS MUST CARRY THE BSI KITEMARK OR WILL BE REJECTED BY YORKSHIRE WATER INSPECTOR. WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME, A LOAD BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600x600mm. FOR THE YORKSHIRE WATER SPECIFIED COVER SIZE, PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA), 'TECHNICAL BULLETIN' ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES.
6. SULPHATE RESISTANT CEMENT (C20-CC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
7. THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
8. SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES (PLEASE ALSO REFER TO FIGURE 2.3 ON PAGE 33 IN "SEWERS FOR ADOPTION" 6TH EDITION FOR RESTRICTIONS ON TREE PLANTING ADJACENT TO SEWERS)
9. SEWERS TO BE LAID IN CLASS "S" BEDDING (150mm GRANULAR BED AND SURROUND), WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 900mm IN NON-VEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.
10. BEDDING AND BACKFILL TO CONFORM TO THE REQUIREMENT OF THE WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2)
11. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
12. YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE "C" BRICK MANHOLES AND 1050mm DIA MANHOLE RINGS. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200mm DIA OR 1500mm DIA RINGS, WITH OPENING SIDES ABOVE THE CHANNEL WHERE DEPTH OF COVER TO PIPE OUTFIT IS 1 - 1.5m.

P02	REVISED TO SUIT HIGHWAYS UPDATES	23/10/20	OT	OT
P01	FIRST ISSUE	28/08/20	OT	NT
Rev:	Description:	Date:	By:	Chkd:



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SUITABLE FOR INFORMATION

S2

Project

INTERCHANGE 26

Drug Title

S104 DRAINAGE
LONGSECTIONS SHEET 3

Size:	Date:	Drawn By:	Designed By:	Checked By:			
A1	28/08/20	OT	OT	NT			
Scale: AS SHOWN							
Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
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