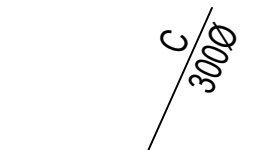
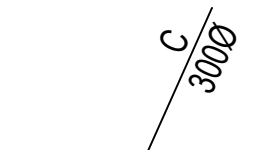


2024 Drawing created from JRC Drawing Template 2023 Rev. 02/14/2023 04:50:46Z

	<table><tr><td>COVER</td><td>I</td><td>A</td><td>39.890m</td></tr><tr><td>42.040m</td><td>N</td><td>B</td><td>40.040m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>40.040m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type B</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	39.890m	42.040m	N	B	40.040m	DIAMETER	E	C	40.040m	1500mm	R	D		Type B	T	E	
COVER	I	A	39.890m																		
42.040m	N	B	40.040m																		
DIAMETER	E	C	40.040m																		
1500mm	R	D																			
Type B	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>39.722m</td></tr><tr><td>41.590m</td><td>N</td><td>B</td><td>39.722m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>39.872m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type B</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	39.722m	41.590m	N	B	39.722m	DIAMETER	E	C	39.872m	1500mm	R	D		Type B	T	E	
COVER	I	A	39.722m																		
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DIAMETER	E	C	39.872m																		
1500mm	R	D																			
Type B	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>39.686m</td></tr><tr><td>41.584m</td><td>N</td><td>B</td><td>39.686m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>40.20m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td>40.20m</td></tr><tr><td>Type B</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	39.686m	41.584m	N	B	39.686m	DIAMETER	E	C	40.20m	1500mm	R	D	40.20m	Type B	T	E	
COVER	I	A	39.686m																		
41.584m	N	B	39.686m																		
DIAMETER	E	C	40.20m																		
1500mm	R	D	40.20m																		
Type B	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>39.619m</td></tr><tr><td>41.320m</td><td>N</td><td>B</td><td>39.619m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td></td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type C</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	39.619m	41.320m	N	B	39.619m	DIAMETER	E	C		1500mm	R	D		Type C	T	E	
COVER	I	A	39.619m																		
41.320m	N	B	39.619m																		
DIAMETER	E	C																			
1500mm	R	D																			
Type C	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>39.574m</td></tr><tr><td>41.160m</td><td>N</td><td>B</td><td>39.574m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>39.724m</td></tr><tr><td>1800mm</td><td>R</td><td>D</td><td>39.724m</td></tr><tr><td>CATCHPIT</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	39.574m	41.160m	N	B	39.574m	DIAMETER	E	C	39.724m	1800mm	R	D	39.724m	CATCHPIT	T	E	
COVER	I	A	39.574m																		
41.160m	N	B	39.574m																		
DIAMETER	E	C	39.724m																		
1800mm	R	D	39.724m																		
CATCHPIT	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>40.016m</td></tr><tr><td>41.330m</td><td>N</td><td>B</td><td>40.166m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>40.166m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type C</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	40.016m	41.330m	N	B	40.166m	DIAMETER	E	C	40.166m	1500mm	R	D		Type C	T	E	
COVER	I	A	40.016m																		
41.330m	N	B	40.166m																		
DIAMETER	E	C	40.166m																		
1500mm	R	D																			
Type C	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>39.962m</td></tr><tr><td>40.833m</td><td>N</td><td>B</td><td>40.112m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td></td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type C</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	39.962m	40.833m	N	B	40.112m	DIAMETER	E	C		1500mm	R	D		Type C	T	E	
COVER	I	A	39.962m																		
40.833m	N	B	40.112m																		
DIAMETER	E	C																			
1500mm	R	D																			
Type C	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>39.754m</td></tr><tr><td>40.991m</td><td>N</td><td>B</td><td>39.904m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>39.904m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type C</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	39.754m	40.991m	N	B	39.904m	DIAMETER	E	C	39.904m	1500mm	R	D		Type C	T	E	
COVER	I	A	39.754m																		
40.991m	N	B	39.904m																		
DIAMETER	E	C	39.904m																		
1500mm	R	D																			
Type C	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>39.596m</td></tr><tr><td>40.75m</td><td>N</td><td>B</td><td>39.596m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>39.896m</td></tr><tr><td>1800mm</td><td>R</td><td>D</td><td></td></tr><tr><td>CATCHPIT</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	39.596m	40.75m	N	B	39.596m	DIAMETER	E	C	39.896m	1800mm	R	D		CATCHPIT	T	E	
COVER	I	A	39.596m																		
40.75m	N	B	39.596m																		
DIAMETER	E	C	39.896m																		
1800mm	R	D																			
CATCHPIT	T	E																			
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COVER	I	A	39.18m																		
40.75m	N	B	39.18m																		
DIAMETER	E	C																			
1800mm	R	D																			
Type C	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td></td></tr><tr><td>40.75m</td><td>N</td><td>B</td><td>39.55m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td></td></tr><tr><td>---</td><td>R</td><td>D</td><td></td></tr><tr><td>HEADWALL</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A		40.75m	N	B	39.55m	DIAMETER	E	C		---	R	D		HEADWALL	T	E	
COVER	I	A																			
40.75m	N	B	39.55m																		
DIAMETER	E	C																			
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	<table><tr><td>COVER</td><td>I</td><td>A</td><td></td></tr><tr><td>40.75m</td><td>N</td><td>B</td><td>39.55m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td></td></tr><tr><td>---</td><td>R</td><td>D</td><td></td></tr><tr><td>HEADWALL</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A		40.75m	N	B	39.55m	DIAMETER	E	C		---	R	D		HEADWALL	T	E	
COVER	I	A																			
40.75m	N	B	39.55m																		
DIAMETER	E	C																			
---	R	D																			
HEADWALL	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>39.20m</td></tr><tr><td>40.75m</td><td>N</td><td>B</td><td></td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td></td></tr><tr><td>---</td><td>R</td><td>D</td><td></td></tr><tr><td>HEADWALL</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	39.20m	40.75m	N	B		DIAMETER	E	C		---	R	D		HEADWALL	T	E	
COVER	I	A	39.20m																		
40.75m	N	B																			
DIAMETER	E	C																			
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HEADWALL	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>39.686m</td></tr><tr><td>39.32m</td><td>N</td><td>B</td><td>39.686m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>40.20m</td></tr><tr><td>---</td><td>R</td><td>D</td><td>40.20m</td></tr><tr><td>HEADWALL</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	39.686m	39.32m	N	B	39.686m	DIAMETER	E	C	40.20m	---	R	D	40.20m	HEADWALL	T	E	
COVER	I	A	39.686m																		
39.32m	N	B	39.686m																		
DIAMETER	E	C	40.20m																		
---	R	D	40.20m																		
HEADWALL	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>38.84m</td></tr><tr><td>40.598m</td><td>N</td><td>B</td><td>39.14m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>39.14m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type C</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	38.84m	40.598m	N	B	39.14m	DIAMETER	E	C	39.14m	1500mm	R	D		Type C	T	E	
COVER	I	A	38.84m																		
40.598m	N	B	39.14m																		
DIAMETER	E	C	39.14m																		
1500mm	R	D																			
Type C	T	E																			
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COVER	I	A	39.158m																		
40.738m	N	B	39.233m																		
DIAMETER	E	C	39.233m																		
1500mm	R	D																			
Type B	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>38.677m</td></tr><tr><td>40.445m</td><td>N</td><td>B</td><td>38.677m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>38.677m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td>39.127m</td></tr><tr><td>Type B</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	38.677m	40.445m	N	B	38.677m	DIAMETER	E	C	38.677m	1500mm	R	D	39.127m	Type B	T	E	
COVER	I	A	38.677m																		
40.445m	N	B	38.677m																		
DIAMETER	E	C	38.677m																		
1500mm	R	D	39.127m																		
Type B	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>38.653m</td></tr><tr><td>40.372m</td><td>N</td><td>B</td><td>39.103m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>38.653m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type B</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	38.653m	40.372m	N	B	39.103m	DIAMETER	E	C	38.653m	1500mm	R	D		Type B	T	E	
COVER	I	A	38.653m																		
40.372m	N	B	39.103m																		
DIAMETER	E	C	38.653m																		
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	<table><tr><td>COVER</td><td>I</td><td>A</td><td>38.516m</td></tr><tr><td>39.908m</td><td>N</td><td>B</td><td>38.516m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>38.966m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td>38.966m</td></tr><tr><td>Type C</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	38.516m	39.908m	N	B	38.516m	DIAMETER	E	C	38.966m	1500mm	R	D	38.966m	Type C	T	E	
COVER	I	A	38.516m																		
39.908m	N	B	38.516m																		
DIAMETER	E	C	38.966m																		
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Type C	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>38.448m</td></tr><tr><td>40.088m</td><td>N</td><td>B</td><td>38.448m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>38.898m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type C</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	38.448m	40.088m	N	B	38.448m	DIAMETER	E	C	38.898m	1500mm	R	D		Type C	T	E	
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40.088m	N	B	38.448m																		
DIAMETER	E	C	38.898m																		
1500mm	R	D																			
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	<table><tr><td>COVER</td><td>I</td><td>A</td><td>38.385m</td></tr><tr><td>40.259m</td><td>N</td><td>B</td><td>38.385m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>38.835m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td>38.835m</td></tr><tr><td>Type C</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	38.385m	40.259m	N	B	38.385m	DIAMETER	E	C	38.835m	1500mm	R	D	38.835m	Type C	T	E	
COVER	I	A	38.385m																		
40.259m	N	B	38.385m																		
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	<table><tr><td>COVER</td><td>I</td><td>A</td><td>38.299m</td></tr><tr><td>40.440m</td><td>N</td><td>B</td><td>38.299m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>38.749m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type B</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	38.299m	40.440m	N	B	38.299m	DIAMETER	E	C	38.749m	1500mm	R	D		Type B	T	E	
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COVER	I	A	38.691m																		
40.577m	N	B	38.841m																		
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	<table><tr><td>COVER</td><td>I</td><td>A</td><td>38.486m</td></tr><tr><td>40.763m</td><td>N</td><td>B</td><td>38.636m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>38.786m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type B</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	38.486m	40.763m	N	B	38.636m	DIAMETER	E	C	38.786m	1500mm	R	D		Type B	T	E	
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40.763m	N	B	38.636m																		
DIAMETER	E	C	38.786m																		
1500mm	R	D																			
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COVER	I	A	38.97m																		
	N	B																			
DIAMETER	E	C																			
---	R	D																			
HEADWALL	T	E																			
	<table><tr><td>COVER</td><td>I</td><td>A</td><td>38.812m</td></tr><tr><td>40.805m</td><td>N</td><td>B</td><td>38.962m</td></tr><tr><td>DIAMETER</td><td>E</td><td>C</td><td>38.962m</td></tr><tr><td>1500mm</td><td>R</td><td>D</td><td></td></tr><tr><td>Type B</td><td>T</td><td>E</td><td></td></tr></table>	COVER	I	A	38.812m	40.805m	N	B	38.962m	DIAMETER	E	C	38.962m	1500mm	R	D		Type B	T	E	
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COVER	I	A	38.543m																		
40.303m	N	B	38.543m																		
DIAMETER	E	C	39.44m																		
1500mm	R	D																			
Type C	T	E																			
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DIAMETER	E	C																			
---	R	D																			
HEADWALL	T	E																			

 S3-HW3	COVER	I	A	
	39.80m	N	B	
	DIAMETER	E	C	37.50m
	---	R	D	
	HEADWALL	T	E	

 S3-HW4 (OUTFALL)	COVER	I	A	37.30m
	38.30m	N	B	
	DIAMETER	E	C	
	---	R	D	
	HEADWALL	T	E	

MH No.	EASTING (m)	NORTHING (m)
S2-01	385913.920	156085.826
S2-02	385937.286	156130.545
S2-03	385928.109	156136.214
S2-04	385914.862	156151.303
S2-05	385903.595	156158.451
S2-06	385950.079	156145.658
S2-07	385991.112	156175.794
S2-08	385976.733	156166.073
S2-09	385944.943	156201.353
S2-10	385929.097	156204.229
S2-HW1	385897.170	156161.962
S2-HW2	385931.605	156198.266
S2-HW3	385929.499	156199.125
S2-HW4 (OUTFALL)	385927.247	156211.646
S3-01	385985.481	156242.154
S3-02	385997.001	156182.456
S3-03	386021.483	156209.270
S3-04	386026.439	156214.640
S3-05	386054.301	156244.588
S3-06	386068.321	156259.551
S3-07	386080.611	156273.911
S3-08	386098.314	156292.545
S3-09	386086.178	156362.148
S3-10	386100.537	156353.652
S3-11	386128.999	156314.294
S3-12	386222.720	156288.990
S3-13	386199.905	156322.299
S3-14	386180.821	156350.161
S3-15	386159.122	156379.253
S3-17	386140.706	156406.244
S3-18	386177.316	156438.621
S3-19	386170.875	156455.911
S3-HW1	386172.453	156389.969
S3-HW2	386151.341	156413.326
S3-HW3	386172.971	156428.904
S3-HW4 (OUTFALL)	386139.425	156482.918

CDM: Significant Hazards

Health and Safety hazards are identified by the designer as abnormal in pursuance of the current Construction Design and Management regulations. It is assumed that all works will be carried out by competent & adequately resourced contractor(s) working to safe systems of work.



General Notes

- DO NOT SCALE FROM THIS DRAWING FOR CONSTRUCTION. Scaling from this drawing or obtaining dimensions electronically may not provide accurate information and should be avoided, therefore work only from figured dimensions and contact JRC Consulting Engineers.
- This drawing is to be read in conjunction with all other relevant Architect's, Engineers & Specialist drawings, details, Specification and the relevant Health and Safety Plan (as appropriate to the project). All discrepancies to be reported to the Engineer immediately for verification.

Drainage Notes

- The planning, design and construction of sewers shall be in accordance with Sewers Sector Guidance (SSG) a design and construction guide for developers.
- The minimum size of sewer where guide bars, safety chains, or other safety devices are required in manholes shall be 375mm diameter.
- All type A & B manholes should have a concrete surround. Concrete rings shall be sealed using 'tokstrip' and lifting eyes pointed with resin modified mortar.
- Compliance with health & safety matters on any trench/manhole is obligatory and a permit to enter a confined space is required when connecting site drainage to the existing public sewerage system. A permit to enter a confined space will be obtained from SHW Ltd prior to the works commencing on any public sewerage system.
- Where the proposed site drainage connects to the public sewerage system either by new junction, new manhole or at an existing manhole, it will require the submission of an application for sewer connection form to SHW Ltd prior to works commencing.
- MH covers and frames shall be ductile iron with a minimum square opening of 675x675mm. Covers shall be double triangle for 675mm square openings and be provided with loose bolted connections. Frame depth shall be 150mm. Covers to PPIC'S shall be in accordance with SSG. Type C manholes to be provided with 1220 x 685mm covers and opening.
- The use of ladders or steps in manholes, wet wells and valve chambers shall comply with the following: steel plastic encapsulated MH single steps shall not be used in MHS of a greater depth than 1.0m. Steel plastic encapsulated double steps may be provided in MHS up to 3.0m deep. Ladders shall be provided in accordance with BS 4211 in MHS between 3.0m & 6.0m deep. MHS greater than 6.0m deep shall be specially designed and have intermediate landings. Access holes in intermediate landings shall be provided with galvanised mild steel gratings to prevent persons falling through. The design of deep manholes shall permit the use of a winch or lifting gear mounted at ground level in case of emergencies.
- Only low carbon steel or stainless-steel ladders for vertical fixing to manholes will be acceptable.
- Proposed adoptable sewers are only permitted to have other sewer/gully connections and other services laid at an angle of between 45 degrees and 90 degrees across the line with a vertical clearance more than 300mm.
- All ironwork to be kite marked by BSI or certified by equal inspection authority.
- Red coloured plastic marker tape at least 150mm wide shall be laid at a minimum of 200mm above the soffit of the pipe. The tape shall be printed with the words 'gravity sewer' in bold capital letters throughout its length and at intervals not exceeding 700mm and shall incorporate a corrosion resistant tracing system for non-metallic pipes.
- Minimum backdrop height shall be 1m.
- On new drainage schemes, the first manhole upstream from the connection to the existing foul water sewer shall be fitted with a suitable screen, which will remain in place until the new sewer becomes live.

All Manhole Covers to be D400 Load Compliant

All headwalls are to be installed in accordance with manufacturers details. Location of Headwall to be determined and agreed on site to suit proposed embankment works, finished levels and gradients.

Gully spur connections to Manholes are not shown on the Manhole Schedule and contractor to make allowance for connections in line with Drainage Layout

TA2	13.10.25	Private Lateral Connections Added	JDC	DWJP
TA1	18.07.25	First Issue	JDC	DWJP
REV.	DATE	DETAILS	BY	CHK.



DRAWING STATUS FOR TECHNICAL APPROVAL

PROJECT ELM GROVE TRWOBIDGE

CLIENT REDROW

DRAWING TITLE SURFACE WATER DRAINAGE MANHOLE SCHEDULES

SCALE @ A1	SIZE	DATE
NOT TO SCALE	A1	JUL 25

PROJECT NUMBER	DRAWING NUMBER	REVISION
1960	2540	TA2