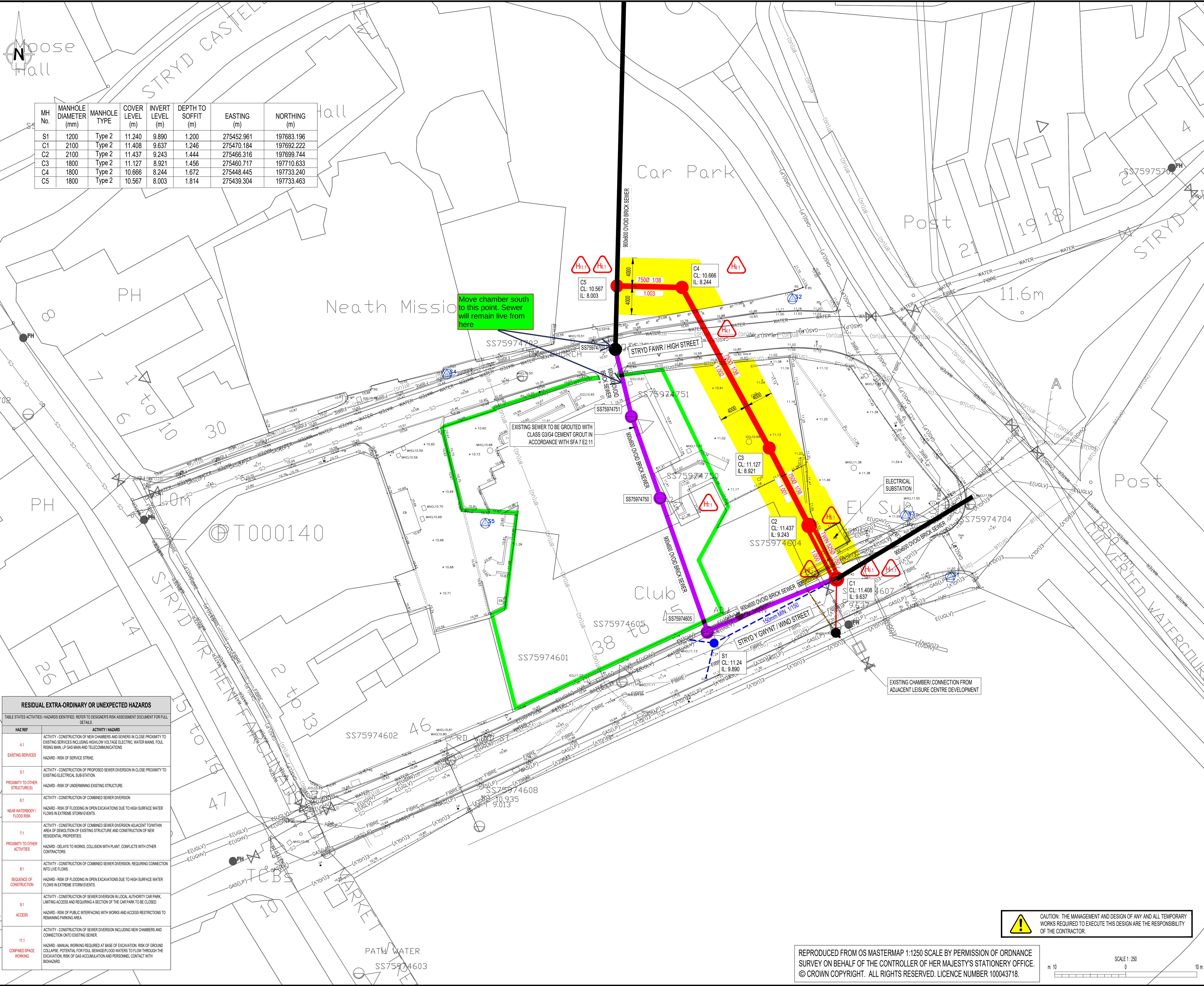




MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)
S1	1200	Type 2	11.240	9.890	1.200	275452.961	197683.196
C1	2100	Type 2	11.408	9.637	1.246	275470.184	197692.222
C2	2100	Type 2	11.437	9.243	1.444	275466.316	197699.744
C3	1800	Type 2	11.127	8.921	1.456	275460.717	197710.633
C4	1800	Type 2	10.666	8.244	1.672	275448.445	197733.240
C5	1800	Type 2	10.567	8.003	1.814	275439.304	197733.463

Move chamber south to this point. Sewer will remain live from here

EXISTING SEWER TO BE GROUTED WITH CLASS G3/G4 CEMENT GROUT IN ACCORDANCE WITH SFA 7 E2.11

EXISTING CHAMBER/CONNECTION FROM ADJACENT LEISURE CENTRE DEVELOPMENT

RESIDUAL EXTRA-ORDINARY OR UNEXPECTED HAZARDS	
TABLE STATES ACTIVITIES / HAZARDS IDENTIFIED. REFER TO DESIGNER'S RISK ASSESSMENT DOCUMENT FOR FULL DETAILS.	
HAZ REF	ACTIVITY / HAZARD
4.1	ACTIVITY - CONSTRUCTION OF NEW CHAMBERS AND SEWERS IN CLOSE PROXIMITY TO EXISTING SERVICES INCLUDING HIGH VOLTAGE ELECTRIC, WATER MAINS, FOUL RISING MAIN, GAS MAIN AND TELECOMMUNICATIONS.
EXISTING SERVICES	HAZARD - RISK OF SERVICE STRIKE.
5.1	ACTIVITY - CONSTRUCTION OF PROPOSED SEWER DIVERSION IN CLOSE PROXIMITY TO EXISTING ELECTRICAL SUB-STATION.
PROXIMITY TO OTHER STRUCTURES	HAZARD - RISK OF UNDERMINING EXISTING STRUCTURE.
6.1	ACTIVITY - CONSTRUCTION OF COMBINED SEWER DIVERSION
NEAR WATERBODY / FLOOD RISK	HAZARD - RISK OF FLOODING IN OPEN EXCAVATIONS DUE TO HIGH SURFACE WATER FLOWS IN EXTREME STORM EVENTS.
7.1	ACTIVITY - CONSTRUCTION OF COMBINED SEWER DIVERSION ADJACENT TO TOWNHALL AREA OF DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF NEW RESIDENTIAL PROPERTIES.
PROXIMITY TO OTHER ACTIVITIES	HAZARD - DELAYS TO WORKS, COLLISION WITH PLANT, CONFLICTS WITH OTHER CONTRACTORS.
8.1	ACTIVITY - CONSTRUCTION OF COMBINED SEWER DIVERSION, REQUIRING CONNECTION INTO LIVE FLOWS.
SEQUENCE OF CONSTRUCTION	HAZARD - RISK OF FLOODING IN OPEN EXCAVATIONS DUE TO HIGH SURFACE WATER FLOWS IN EXTREME STORM EVENTS.
9.1	ACTIVITY - CONSTRUCTION OF SEWER DIVERSION IN LOCAL AUTHORITY CAR PARK, LIMITING ACCESS AND REQUIRING A SECTION OF THE CAR PARK TO BE CLOSED.
ACCESS	HAZARD - RISK OF PUBLIC INTERFACING WITH WORKS AND ACCESS RESTRICTIONS TO REMAINING PARKING AREA.
11.1	ACTIVITY - CONSTRUCTION OF SEWER DIVERSION INCLUDING NEW CHAMBERS AND CONNECTION ONTO EXISTING SEWER.
CONFINED SPACE WORKING	HAZARD - MANUAL WORKING REQUIRED AT BASE OF EXCAVATION, RISK OF GROUND COLLAPSE, POTENTIAL FOR FOUL SEWAGE/FOUL WATERS TO FLOW THROUGH THE EXCAVATION, RISK OF GAS ACCUMULATION AND PERSONNEL CONTACT WITH BIOHAZARD.

NOTES

1.

ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS SHOWN OTHERWISE.

2.

THIS DESIGN IS PROPOSED ON THE BASIS OF CLIENT BRIEF, SPECIFICATIONS, BEST PRACTICE AND RISK REDUCTION / ELIMINATION. THE DESIGNER MUST BE CONSULTED ON ANY PROPOSED CHANGES, BEFORE THEY ARE CONSIDERED FOR IMPLEMENTATION.

3.

THE POSITIONS OF THE APPARATUS OF STATUTORY UNDERTAKERS, HIGHWAY AUTHORITIES AND OTHERS CLOSE TO THE WORKS HAVE BEEN PROVIDED FOR INFORMATION ONLY. NO WARRANTY IS GIVEN AS TO THE ACCURACY OR COMPLETENESS OF THIS INFORMATION AND ERRORS AND OMISSIONS SHALL NOT BE TAKEN AS A CHANGE TO THE WORKS INFORMATION OR SCOPE OF WORKS. IN PARTICULAR, NO SERVICE CONNECTIONS TO INDIVIDUAL PROPERTIES ARE SHOWN. WHERE SERVICES ARE NOT SHOWN THIS SHALL NOT BE TAKEN AS EVIDENCE THAT NO SERVICES ARE PRESENT AND THE CONTRACTOR SHALL ENSURE HE HAS CONSULTED ALL RELEVANT RECORDS. THE CONTRACTOR SHALL CHECK AND CONFIRM THE POSITION OF ALL SERVICES PRIOR TO EXCAVATION.

4.

ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CESW 7 (CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY (7TH EDITION)) SUPPLEMENTED BY THE 'SEWERS' FOR ADOPTION 7TH EDITION (SIA 7).

KEY

DEVELOPMENT BOUNDARY

EXISTING COMBINED SEWER

EXISTING COMBINED SEWER TO BE DIVERTED/ABANDONED

EXISTING FOUL SEWER TO BE DIVERTED/ABANDONED

PROPOSED SURFACE WATER SEWER

PROPOSED SEWER DIVERSION

PROPOSED ADOPTABLE FOUL / COMBINED MANHOLE

PROPOSED BACKDROP & (INVERT LEVEL)

PIPE DIAMETER & GRADIENT

PROPOSED MANHOLE REFERENCE & (INVERT LEVEL)

EXISTING LOW PRESSURE GAS MAIN

EXISTING MEDIUM PRESSURE GAS MAIN

EXISTING UNDERGROUND LOW VOLTAGE ELECTRIC CABLE

EXISTING OVERHEAD TELECOM CABLE(S)

EXISTING UNDERGROUND TELECOM CABLE

EXISTING WATER MAIN

EXISTING FIBRE OPTIC CABLE

AREA OF RESIDUAL EXTRAORDINARY / UNEXPECTED HAZARD. SEE DESIGNER'S RISK ASSESSMENT.

PROPOSED LEGAL EASEMENT

SITE LOCATION

GRID REFERENCE: 275439, 197693

SITE ADDRESS: NEATH WORKING MEN'S CLUB, WIND ST, NEATH, SA11 3HA

R01

28/07/2023

FIRST ISSUE

AR

NJ

MW

REV

DATE

DESCRIPTION

ORG

CHK

APP

CLIENT

Dŵr Cymru

Welsh Water

PRINCIPAL DESIGNER

DWR CYMRU WELSH WATER

Waterco

Waterco Ltd., Eden Court,
Lon Parcw Business Park, Ruthin LL15 1NJ

tel (+44) 1824 702220
www.waterco.co.uk

SCHEME

PSR0000471 - NEATH WORKING MEN'S CLUB

TITLE

SEWER DIVERSION LAYOUT

ORIGINATOR

CHECKER

APPROVER

A. RUSSELL

N. JONES

M. WELLINGTON

STATUS

APPROVAL

SCALE / SHEET SIZE

REV

1: 250 / A1

R01

DRAWING NUMBER

15001-2010

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CAUTION: THE MANAGEMENT AND DESIGN OF ANY AND ALL TEMPORARY WORKS REQUIRED TO EXECUTE THIS DESIGN ARE THE RESPONSIBILITY OF THE CONTRACTOR.

