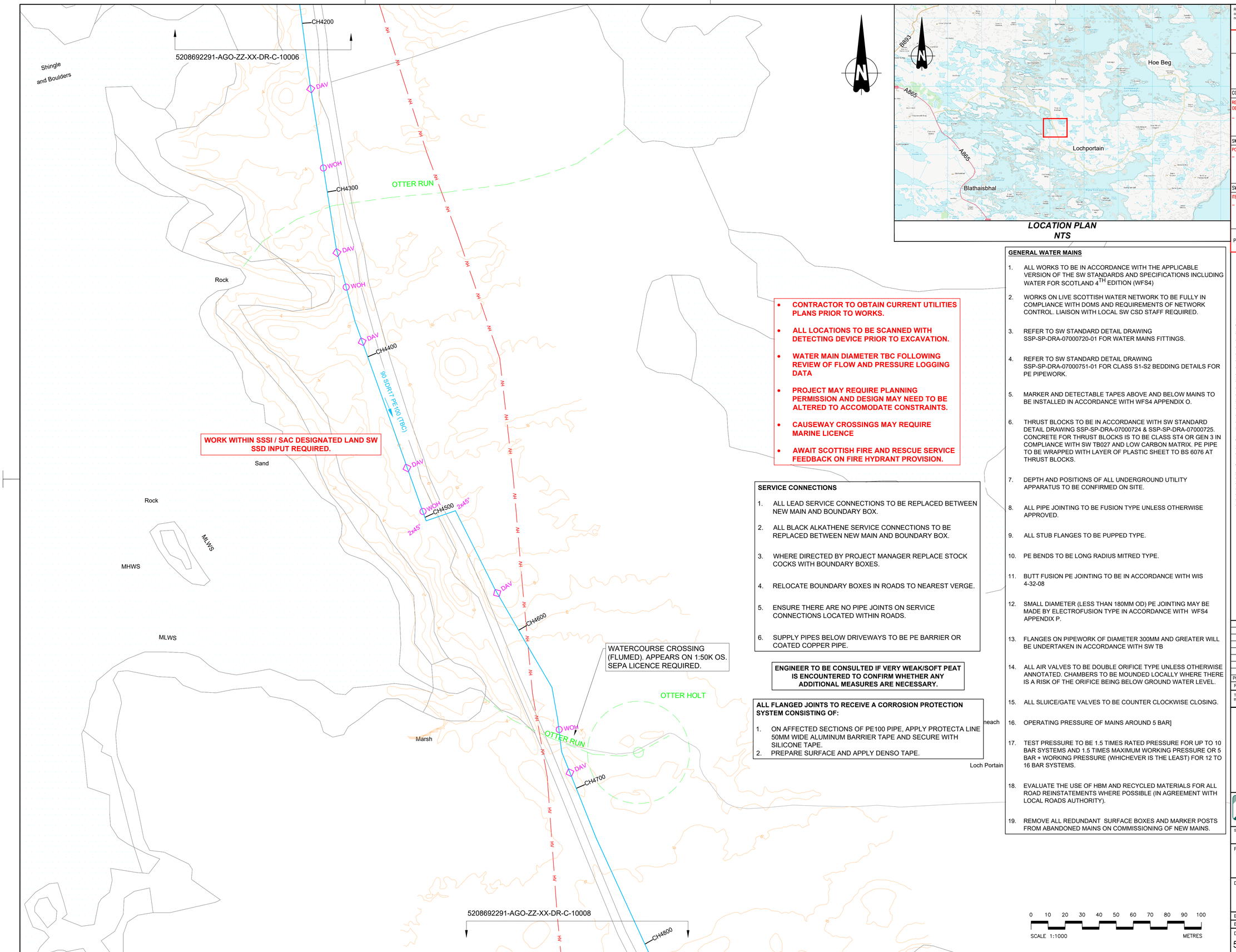

LOCATION PLAN
NTS

- **CONTRACTOR TO OBTAIN CURRENT UTILITIES PLANS PRIOR TO WORKS.**
- **ALL LOCATIONS TO BE SCANNED WITH DETECTING DEVICE PRIOR TO EXCAVATION.**
- **WATER MAIN DIAMETER TBC FOLLOWING REVIEW OF FLOW AND PRESSURE LOGGING DATA**
- **PROJECT MAY REQUIRE PLANNING PERMISSION AND DESIGN MAY NEED TO BE ALTERED TO ACCOMODATE CONSTRAINTS.**
- **CAUSEWAY CROSSINGS MAY REQUIRE MARINE LICENCE**
- **AWAIT SCOTTISH FIRE AND RESCUE SERVICE FEEDBACK ON FIRE HYDRANT PROVISION.**

SERVICE CONNECTIONS

1. ALL LEAD SERVICE CONNECTIONS TO BE REPLACED BETWEEN NEW MAIN AND BOUNDARY BOX.
2. ALL BLACK ALKATHENE SERVICE CONNECTIONS TO BE REPLACED BETWEEN NEW MAIN AND BOUNDARY BOX.
3. WHERE DIRECTED BY PROJECT MANAGER REPLACE STOCK COCKS WITH BOUNDARY BOXES.
4. RELOCATE BOUNDARY BOXES IN ROADS TO NEAREST VERGE.
5. ENSURE THERE ARE NO PIPE JOINTS ON SERVICE CONNECTIONS LOCATED WITHIN ROADS.
6. SUPPLY PIPES BELOW DRIVEWAYS TO BE PE BARRIER OR COATED COPPER PIPE.

ENGINEER TO BE CONSULTED IF VERY WEAK/SOFT PEAT IS ENCOUNTERED TO CONFIRM WHETHER ANY ADDITIONAL MEASURES ARE NECESSARY.

ALL FLANGED JOINTS TO RECEIVE A CORROSION PROTECTION SYSTEM CONSISTING OF:

1. ON AFFECTED SECTIONS OF PE100 PIPE, APPLY PROTECTA LINE 50MM WIDE ALUMINUM BARRIER TAPE AND SECURE WITH SILICONE TAPE.
2. PREPARE SURFACE AND APPLY DENSO TAPE.

GENERAL WATER MAINS

1. ALL WORKS TO BE IN ACCORDANCE WITH THE APPLICABLE VERSION OF THE SW STANDARDS AND SPECIFICATIONS INCLUDING WATER FOR SCOTLAND 4TH EDITION (WFS4)
2. WORKS ON LIVE SCOTTISH WATER NETWORK TO BE FULLY IN COMPLIANCE WITH DOMS AND REQUIREMENTS OF NETWORK CONTROL. LIAISON WITH LOCAL SW CSD STAFF REQUIRED.
3. REFER TO SW STANDARD DETAIL DRAWING SSP-SP-DRA-07000720-01 FOR WATER MAINS FITTINGS.
4. REFER TO SW STANDARD DETAIL DRAWING SSP-SP-DRA-07000751-01 FOR CLASS S1-S2 BEDDING DETAILS FOR PE PIPEWORK.
5. MARKER AND DETECTABLE TAPES ABOVE AND BELOW MAINS TO BE INSTALLED IN ACCORDANCE WITH WFS4 APPENDIX O.
6. THRUST BLOCKS TO BE IN ACCORDANCE WITH SW STANDARD DETAIL DRAWING SSP-SP-DRA-07000724 & SSP-SP-DRA-07000725. CONCRETE FOR THRUST BLOCKS IS TO BE CLASS ST4 OR GEN 3 IN COMPLIANCE WITH SW TB027 AND LOW CARBON MATRIX. PE PIPE TO BE WRAPPED WITH LAYER OF PLASTIC SHEET TO BS 6076 AT THRUST BLOCKS.
7. DEPTH AND POSITIONS OF ALL UNDERGROUND UTILITY APPARATUS TO BE CONFIRMED ON SITE.
8. ALL PIPE JOINTING TO BE FUSION TYPE UNLESS OTHERWISE APPROVED.
9. ALL STUB FLANGES TO BE PUPPED TYPE.
10. PE BENDS TO BE LONG RADIUS MITRED TYPE.
11. BUTT FUSION PE JOINTING TO BE IN ACCORDANCE WITH WIS 4-32-08
12. SMALL DIAMETER (LESS THAN 180MM OD) PE JOINTING MAY BE MADE BY ELECTROFUSION TYPE IN ACCORDANCE WITH WFS4 APPENDIX P.
13. FLANGES ON PIPEWORK OF DIAMETER 300MM AND GREATER WILL BE UNDERTAKEN IN ACCORDANCE WITH SW TB
14. ALL AIR VALVES TO BE DOUBLE ORIFICE TYPE UNLESS OTHERWISE ANNOTATED. CHAMBERS TO BE MOUNDED LOCALLY WHERE THERE IS A RISK OF THE ORIFICE BEING BELOW GROUND WATER LEVEL.
15. ALL SLUICE/GATE VALVES TO BE COUNTER CLOCKWISE CLOSING.
16. OPERATING PRESSURE OF MAINS AROUND 5 BAR]
17. TEST PRESSURE TO BE 1.5 TIMES RATED PRESSURE FOR UP TO 10 BAR SYSTEMS AND 1.5 TIMES MAXIMUM WORKING PRESSURE OR 5 BAR + WORKING PRESSURE (WHICHEVER IS THE LEAST) FOR 12 TO 16 BAR SYSTEMS.
18. EVALUATE THE USE OF HBM AND RECYCLED MATERIALS FOR ALL ROAD REINSTATEMENTS WHERE POSSIBLE (IN AGREEMENT WITH LOCAL ROADS AUTHORITY).
19. REMOVE ALL REDUNDANT SURFACE BOXES AND MARKER POSTS FROM ABANDONED MAINS ON COMMISSIONING OF NEW MAINS.

Reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2024 All rights reserved. Ordnance Survey Licence number 100023460

Original Size A1

SCOTTISH WATER
HEALTH AND SAFETY INFORMATION

IN ADDITION TO THE HAZARDS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING:
(SEE FULL DESIGN RISK ASSESSMENT FOR DETAILS)

CONSTRUCTION PHASE

RESIDUAL RISK THAT COULD NOT BE OBVIOUS TO A 'COMPETENT CONTRACTOR':	ACTION REQUIRED TO CONTROL RESIDUAL RISK:
– Unknown Service	– Obtain current utility plans

SW OPs ACCESS – HORIZONTAL, VERTICAL, PEDESTRIAN, VEHICLE/PLANT

POINTS REQUIRING ACCESS:	METHOD OF ACCESS:
– Valves	– Vehicular / Pedestrian.

SW OPs HANDLING / LIFTING STRATEGY

ITEMS REQUIRING HANDLING:	METHOD OF HANDLING:
– None associated with scope of project.	– Not applicable.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT PERSON WORKING, WHERE APPROPRIATE, TO AN APPROVED SAFE SYSTEM OF WORK.

GENERAL KEY:

WATER MAINS

- ABANDON EX. MAIN
- REMOVE EX. MAIN
- NO WORK REQ'D EX. MAIN
- PREVIOUSLY ABANDONED
- OPEN CUT
- PIPE BURST
- SPRAY LINE
- DIRECTIONAL DRILL
- ABANDON EX. SERVICE
- REMOVE EX. SERVICE
- NO WORK REQ'D EX. SERVICE
- EXISTING SERVICE
- ASSUMED SERVICE

COLOUR KEY

- EX. NO WORK
- NEW/REPLACE
- ABANDON
- REMOVE

WATER MAIN FITTINGS

- FIRE HYDRANT
- WASHOUT HYD.
- BULK METER
- SLUICE VALVE
- CLOSED VALVE
- REVENUE METER
- AIR VALVE
- END CAP
- CHANGE COLLAR
- TRIAL HOLE
- L/R PIT
- STOP COCK
- BOUNDARY BOX

Rev	Description	Drawn	Chk'd	Rev'd.	App'd.	Date
P01	First issue	JAM	MR	SWM	SWM	10.06.25

This drawing is the property of Scottish Water and must not be copied or used for any purpose other than that for which it is supplied without the written consent of Scottish Water.

Scottish Water
Trusted to serve Scotland
THE BRIDGE,
6 BUCHANAN GATE,
STEPPS,
GLASGOW,
G33 6FB.
TEL: 0800 0778 778

Allen Gordon
Consulting Civil and Structural Engineers
8 Ardross Street
Inverness
IV3 5NN
Tel: 01463 236516

Scale	Status	Suitability
1:1000	S2	Suitable for Information

Project Title
Lochportain Private to Public Water Supply

Drawing Title
Layout Plan 7 of 11

0 10 20 30 40 50 60 70 80 90 100
SCALE 1:1000 METRES

Ellipse Equipment No. Equipment
Ellipse Plant No. Plant
Autocode No. 5208692291

Drawing No.
5208692291-AGO-ZZ-XX-DR-C-10007

REV.
P01