



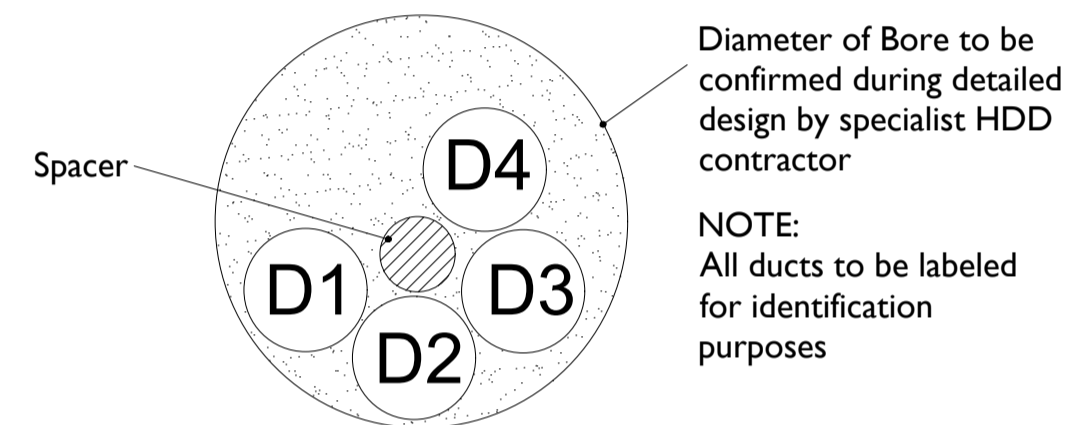
Image 1 : Standard Directional Drilling Rig



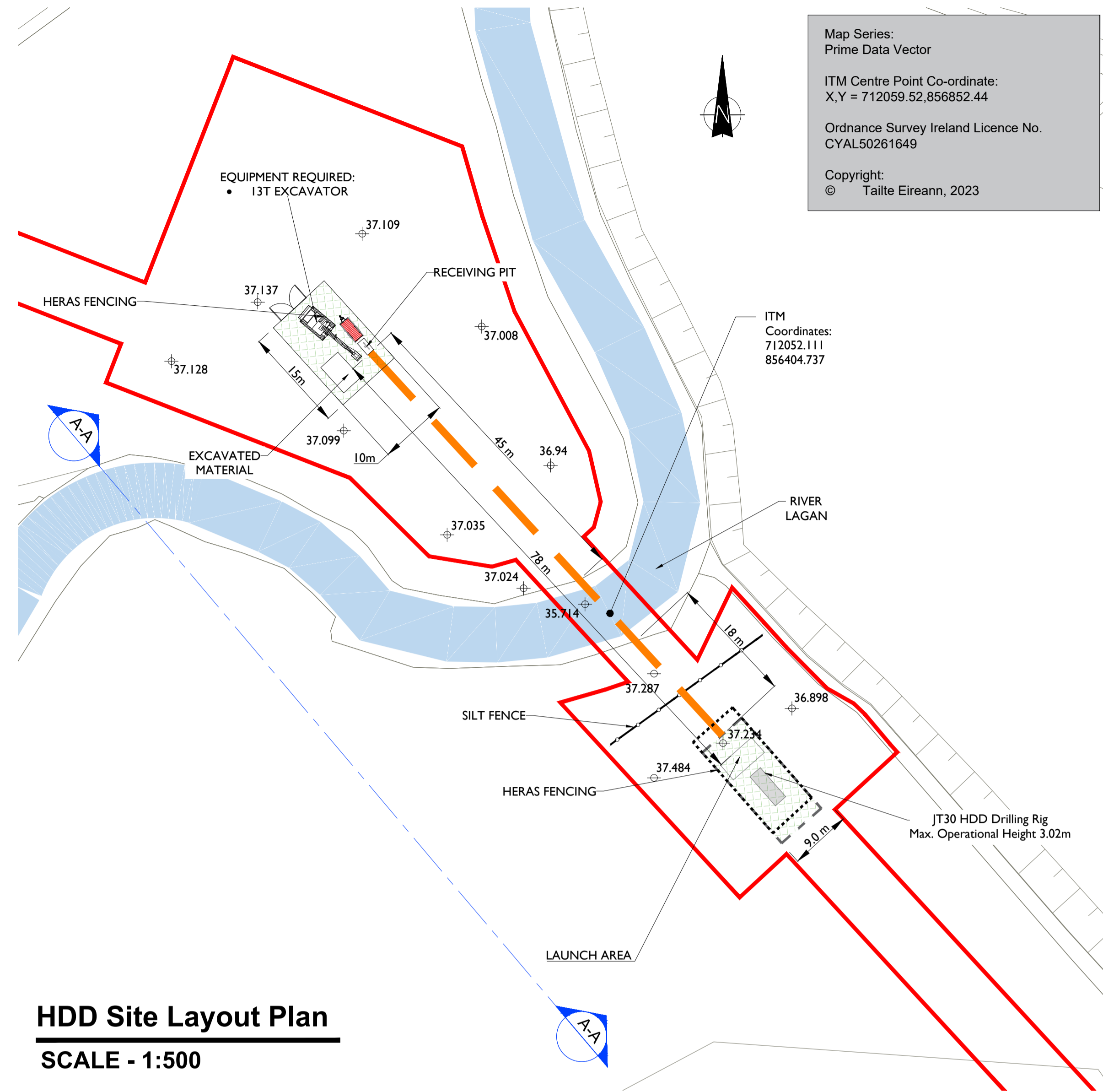
Image 2 : Standard Launch and Receiving Pits

Notes:

1. This drawing is to be used for design approval only and is not to be used for construction.
2. An individual HDD crossing design will be prepared for each HDD crossing following completion of site investigation works.
3. This drawing is to be read in conjunction with all other relevant information.
4. Do not scale from this drawing, use only printed dimensions.
5. All dimensions are in millimetres unless noted otherwise.
6. No excavation shall commence until the contractor has consulted up to date services drawings and carried out an electromagnetic locator (EML) scan.
7. Hand dig only within 500mm of existing services.
8. All co-ordinates are referenced to ITM.
9. The Contractor is responsible for the design and construction of any temporary work required.
10. HDD launch and reception pits locations to be determined following site investigations works.
11. Final HDD design to be completed by Specialist Drilling Contractor in conjunction with the Cable Designer.
12. Transition couplers to be utilised to transition to standard power ducting after HDD. Comms ducts do not require a transition coupler and will be coupled directly using a chamfer between the two ducts.
13. All interstitial space between ducts and borehole to be bentonited thoroughly to maintain cable rating.
14. Where Transition pits are used after HDD the ducts shall approach the chamber in a straight alignment (horizontal & Vertical) for a minimum of 3 meters before the wall opening.

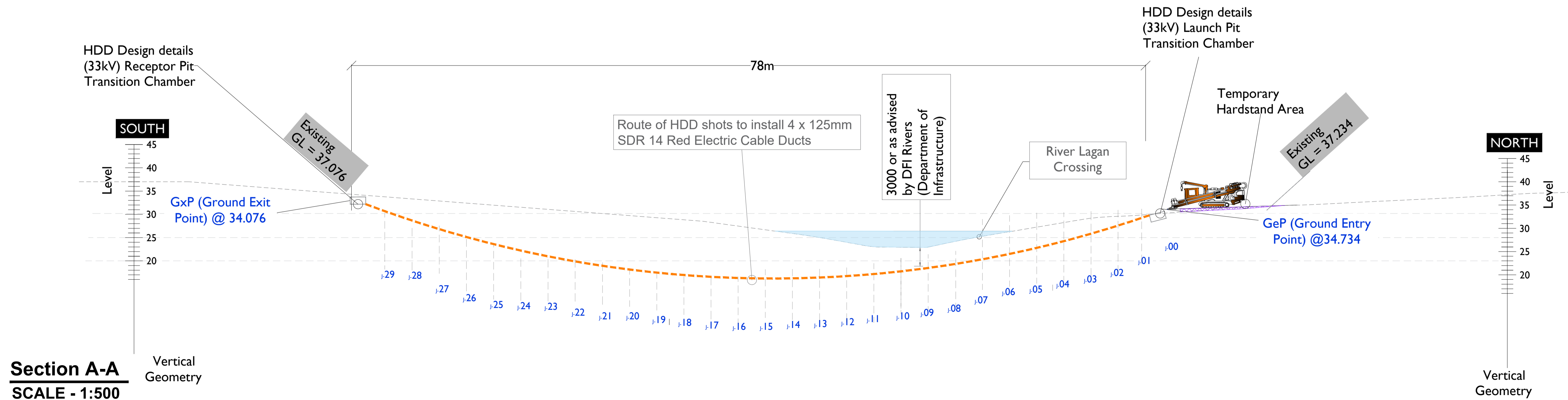


Typical Arrangement for 33kV circuit
 D = 125mm Outer diameter HDPE, SDR = 14.
 All dimensions in millimeters



HDD Site Layout Plan
SCALE - 1:500

SECTION A-A - LONGSECTION
SCALE: H 1:500, V 1:500. DATUM: 30.000



Section A-A
SCALE - 1:500

Vertical Geometry

Vertical Geometry

Map Series:
 Prime Data Vector
 ITM Centre Point Co-ordinate:
 X,Y = 712059.52,856852.44
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PROJECT

**Magheralin Solar
 Interconnection**

CLIENT



CONSULTANTS

NOTES: -

LEGEND: -

- Riverine feature shown thus
- Underground Cable Route
- Temporary Compound Drilling Area
- Planning Boundary denoted as

ISSUE/REVISION

NO	DATE	DESCRIPTION
P2	19.10.23	Issued for Planning
P1	10.10.23	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-1024

SHEET TITLE

River Lagan HDD Crossing

SHEET NUMBER

051024-DR-100