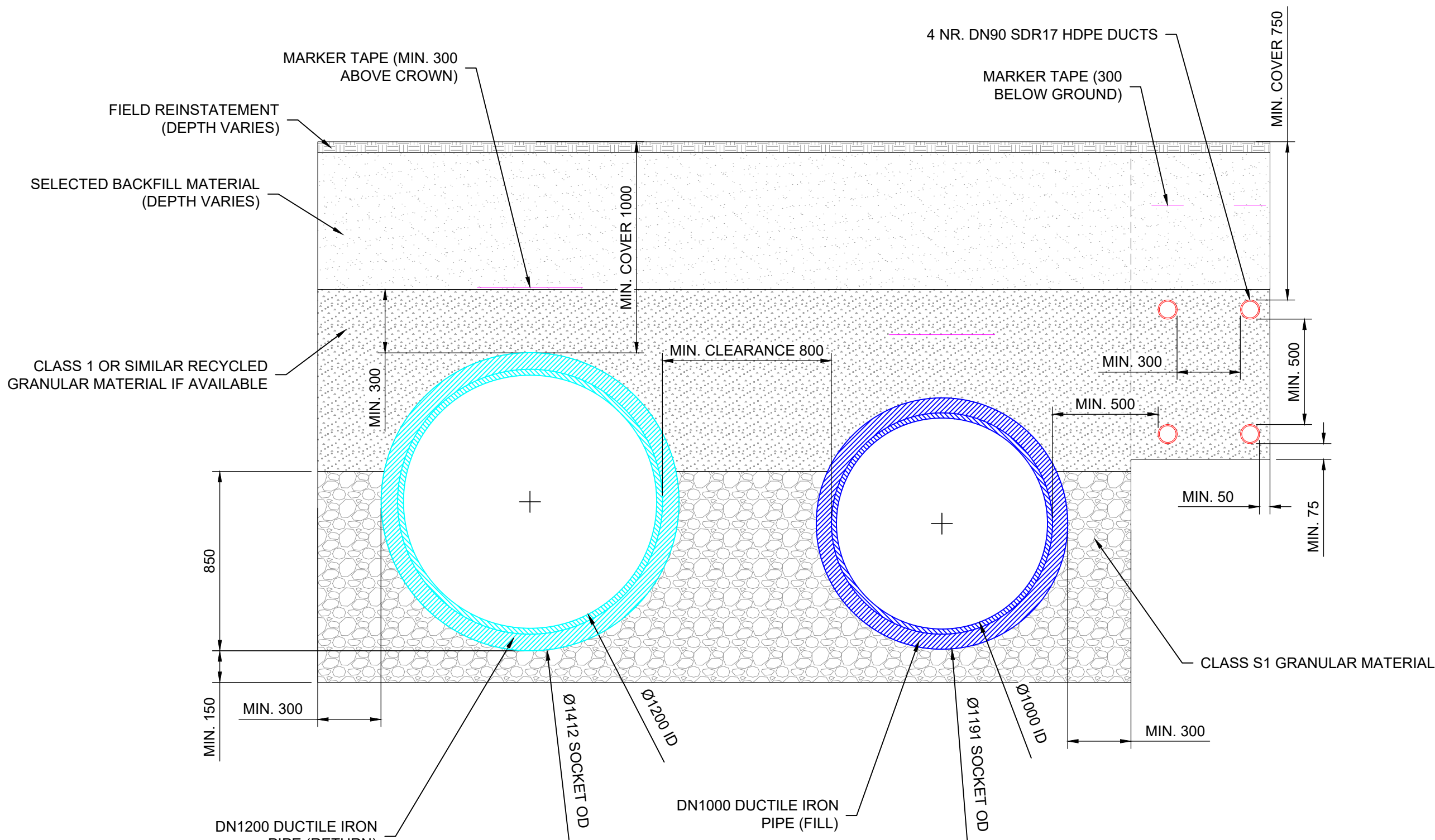
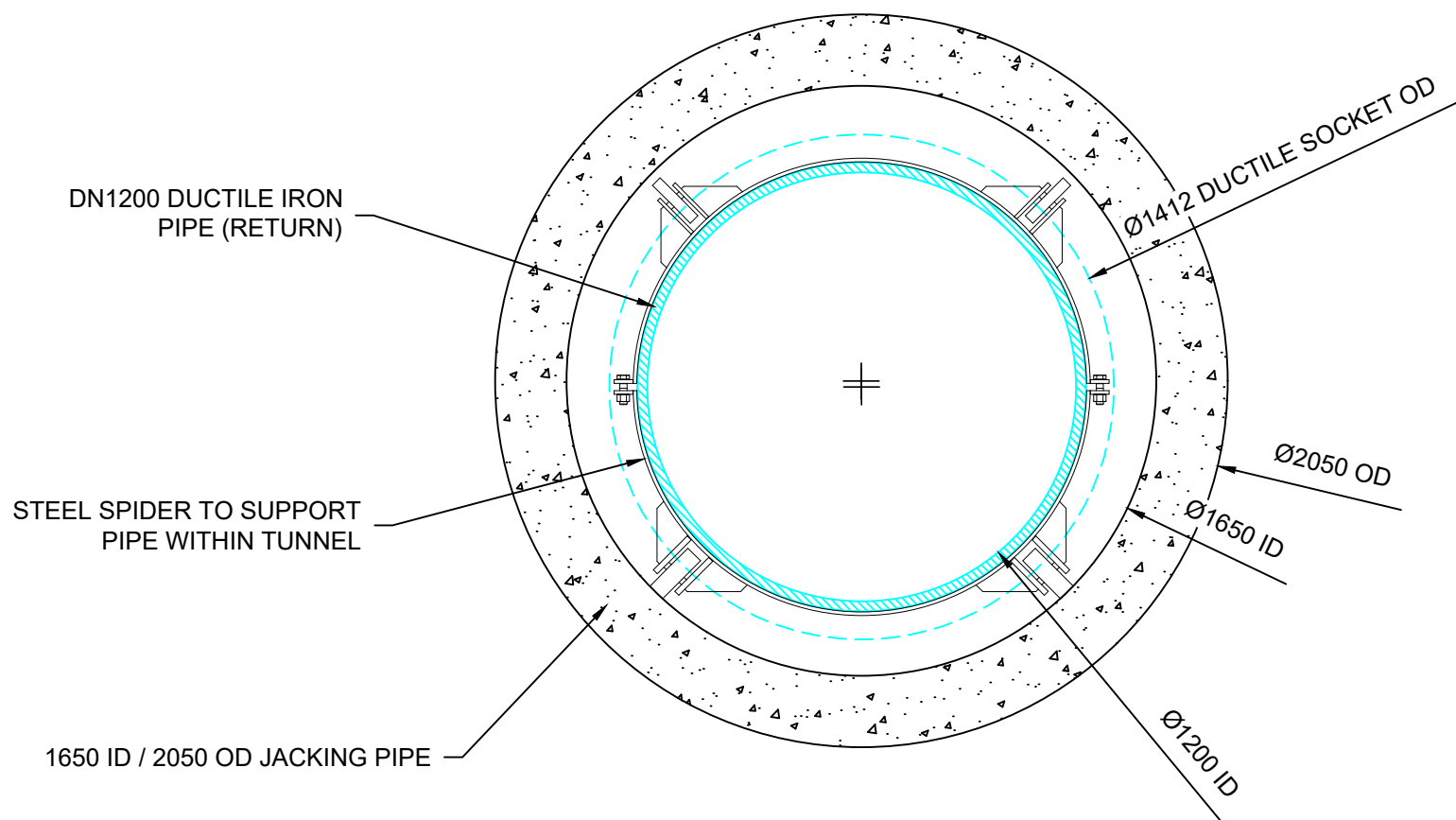
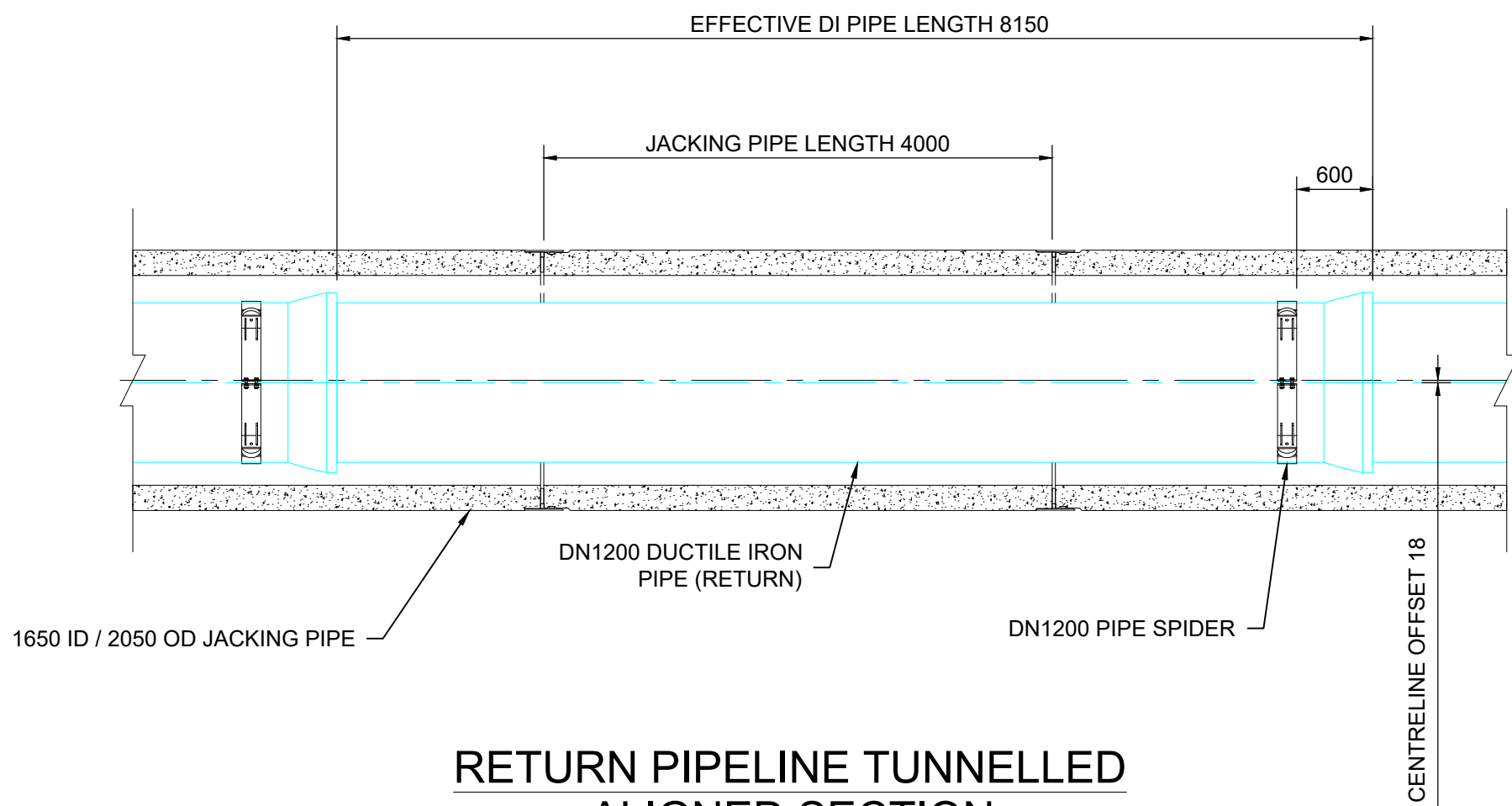




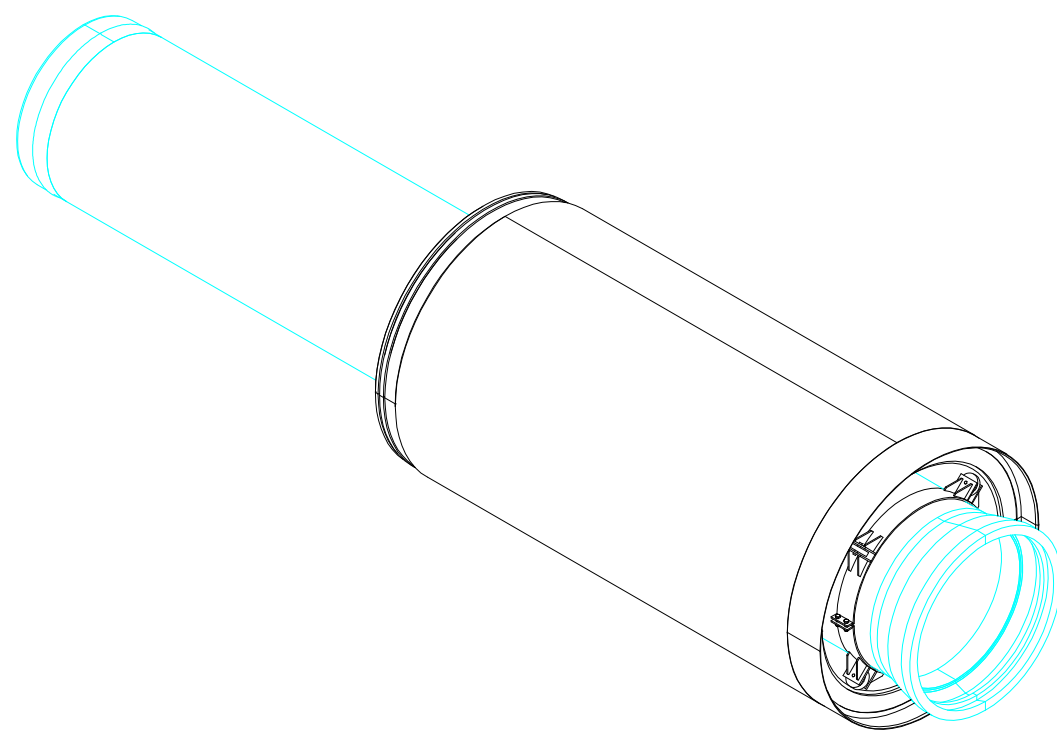
OPEN CUT CROSS SECTION  
(P2 AND P9)  
SCALE 1:20



RETURN PIPELINE TUNNELLED  
CROSS SECTION  
SCALE 1:20



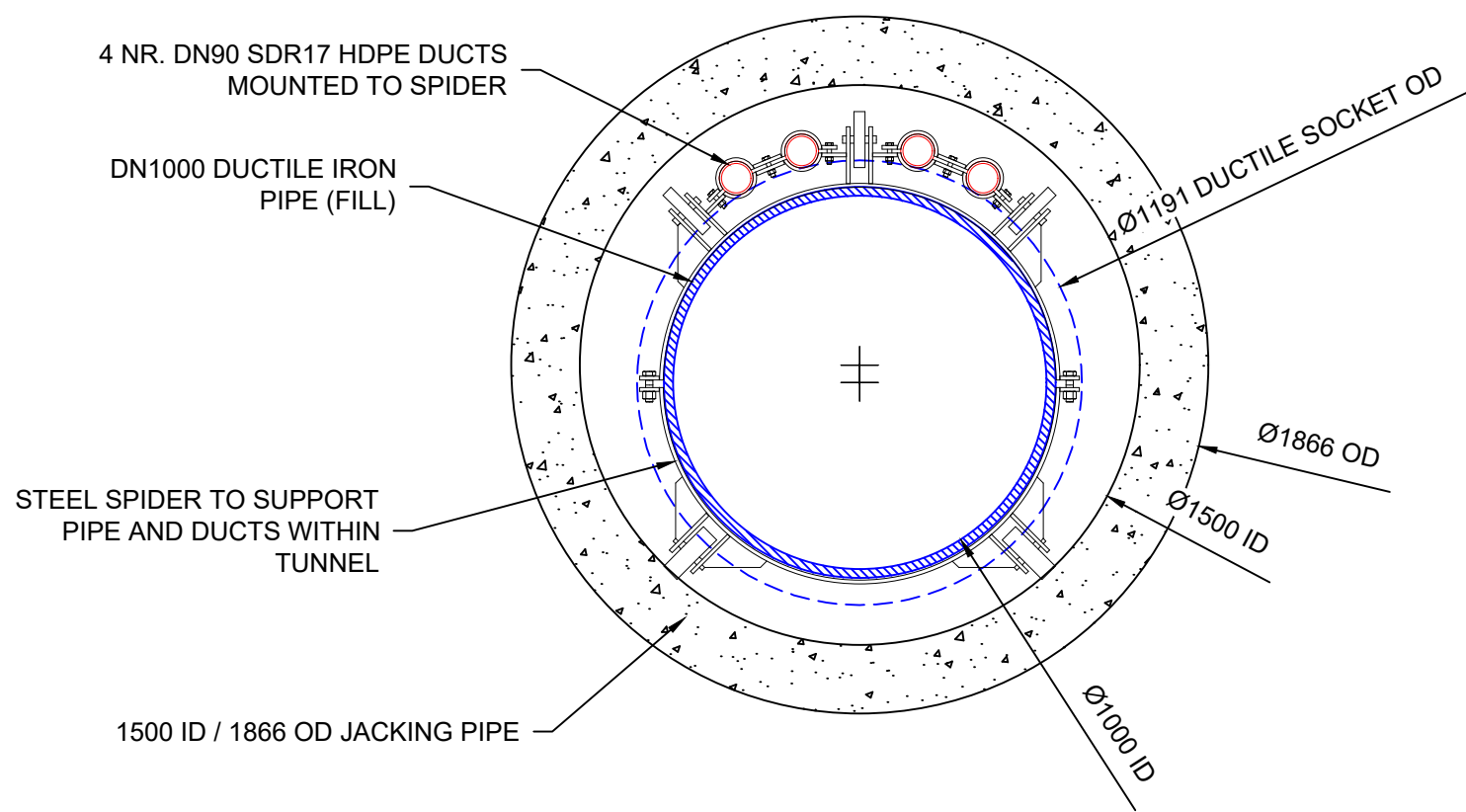
RETURN PIPELINE TUNNELLED  
ALIGNED SECTION  
SCALE 1:50



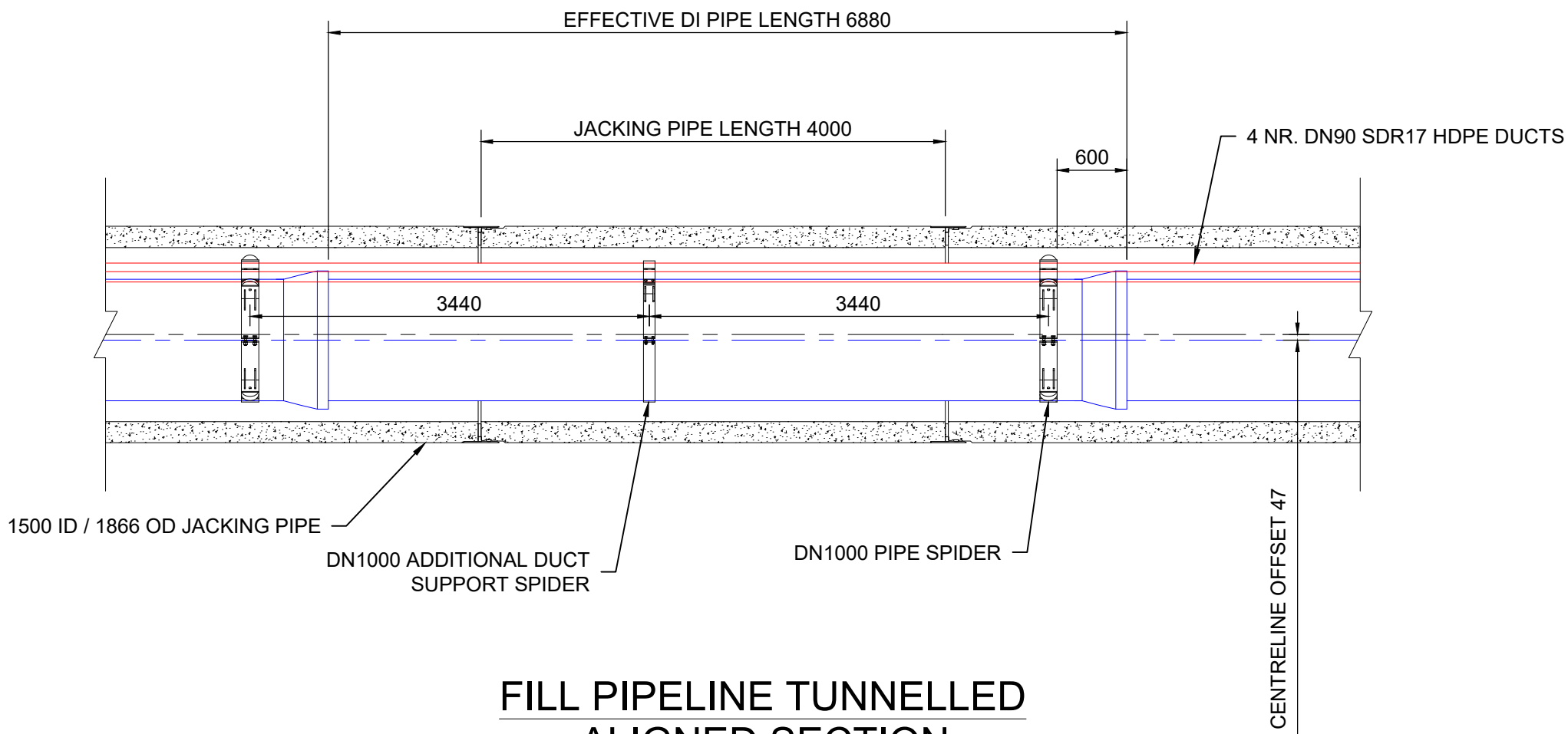
RETURN PIPELINE TUNNELLED  
3D VIEW  
NTS



FILL PIPELINE TUNNELLED  
3D VIEW  
NTS



FILL PIPELINE TUNNELLED  
CROSS SECTION  
SCALE 1:20



FILL PIPELINE TUNNELLED  
ALIGNED SECTION  
SCALE 1:50

Notes:

- PIPE EMBEDMENT DESIGN TO BS EN 1295. EMBEDMENT AND BACKFILLING DETAILS SHALL BE IN ACCORDANCE WITH CESWI 7th AND WIS 4-08-02.
- PIPES SHALL BE LAID ON A BEDDING MATERIAL WHICH WILL PROVIDE EVEN CONTINUOUS SUPPORT. JOINT HOLES SHALL BE FORMED IN THE BEDDING MATERIAL TO ENSURE THAT EACH PIPE IS UNIFORMLY SUPPORTED THROUGHOUT THE LENGTH OF ITS BARREL AND TO ENABLE THE JOINT TO BE MADE.
- MARKER TAPE ABOVE PIPE CROWNS TO BE IN ACCORDANCE WITH CESWI 7th (2.76.1). MARKER TAPE ABOVE DUCTS TO BE IN ACCORDANCE WITH WIMES 3.13 OR AN ALTERNATIVE STANDARD TO SUIT INTENDED DUCT USAGE.
- COMPACTION PLANT USED SHALL BE APPROPRIATE FOR USE IN LIMITED ACCESS WIDTHS BETWEEN PIPE AND TRENCH WALL.
- BACKFILL SHALL BE PLACED IN LAYERS NOT MORE THAN 150mm AND NOT LESS THAN 75mm THICK AND COMPACTED.
- MATERIALS SUBJECT TO FROST HEAVE SHALL NOT BE USED WITHIN 450mm OF THE SURFACE.
- TOPSOIL AND SUBSOIL SHALL BE STRIPPED SEPARATELY REGARDLESS OF THICKNESS, STORED SEPARATELY AND REINSTATED SEPARATELY TO ORIGINAL LEVELS.
- WHERE GRANULAR BED UTILIZED, CLAY STANKS ARE TO BE PLACED AT MIN 50m INTERVALS. THESE ARE TO BE 500mm IN LENGTH, EXTEND BETWEEN THE TRENCH SIDES AND FROM TRENCH BOTTOM TO TOP LEVEL OF GRANULAR BED.
- FOR RELATIVE POSITIONING OF FILL AND RETURN PIPELINES IN TUNNELLED SECTIONS OF THE ROUTE, SEE PLAN AND LONG SECTION DRAWINGS.
- FOR OPEN CUT SECTIONS P2 AND P9, TEMPORARY DRAWPITS TO BE POSITIONED AT CIRCA 50 m SPACING ALONG DUCT RUNS (NOT SHOWN). TRENCH WIDTH TO BE INCREASED LOCALLY TO ACCOMMODATE.
- FOR SPIDER DETAILS SEE HTR-WAB-PI-ZZ-DR-W-0008, HTR-WAB-PI-ZZ-DR-W-0009 AND HTR-WAB-PI-ZZ-DR-W-0011.
- STANDARD LENGTH DI PIPES ARE SHOWN IN ALIGNED SECTIONS. SHORTER LENGTH PIPES ARE TO BE USED IN TUNNELS, WHERE REQUIRED.
- RELATIVE ORIENTATION OF JACKING PIPES AND DI PIPES VARIES IN DIFFERENT TUNNEL SECTIONS.
- DIMENSION FOR ADDITIONAL DUCT SUPPORT SPIDER TO BE PLACED AT EQUAL SPACING TO ADJACENT WHEELED DN1000 SPIDERS ON SHORTER LENGTH PIPES, WHERE REQUIRED.

ID = INNER DIAMETER  
OD = OUTER DIAMETER



SCALE 1:20



SCALE 1:20

|           |           |           |           |                                         |          |
|-----------|-----------|-----------|-----------|-----------------------------------------|----------|
| P06<br>A4 | JT        | BP        | BC        | SPIDER MODIFICATIONS + ALIGNED SECTIONS | 28/10/24 |
| P05<br>A4 | JT        | BP        | BC        | INCLUSION OF DUCTS ON P2/P9             | 13/09/24 |
| P04<br>A4 | JT        | BP        | BC        | PLANNING VERSION                        | 03/05/24 |
| Rev       | Drn<br>By | Ckd<br>By | App<br>By | Description                             | Date     |



|                              |         |
|------------------------------|---------|
| Drawing Suitability:         | Status: |
| APPROVED FOR DETAILED DESIGN | A4      |
| Contractors Drawing Number:  |         |
| HTR-WAB-PI-ZZ-DR-W-0006      |         |

|                                                                                                                                                                                                                                                                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Telephone: Havant (023) 9249 9888<br>Fax: Havant (023) 9245 3632<br>Website: <a href="http://www.portsmouthwater.co.uk">www.portsmouthwater.co.uk</a><br>Registered Office: PO Box 8 West Street<br>Havant Hampshire PO9 1LG<br>REGISTERED IN ENGLAND No. 2536455 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|            |          |          |             |
|------------|----------|----------|-------------|
| Date:      | Scale:   | Sheet:   | Sheet Size: |
| 28/10/2024 | AS SHOWN | 01 of 01 | A1          |

|                |                          |
|----------------|--------------------------|
| Project Title: | HAVANT THICKET RESERVOIR |
|----------------|--------------------------|

|                |                          |
|----------------|--------------------------|
| Drawing Title: | PIPELINE SECTION DETAILS |
|----------------|--------------------------|

ALL DIMENSIONS ARE IN MILLIMETRES  
UNLESS OTHERWISE STATED

|                                  |      |
|----------------------------------|------|
| Portsmouth Water Drawing Number: | Rev: |
|                                  | P06  |