

ARCHAEOLOGICAL WATCHING
BRIEF AT THE
NEW GARDEN OF
REMEMBRANCE, BOURTON-ON-
THE-WATER,
GLOUCESTERSHIRE

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Revision 1

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INVESTOR IN PEOPLE

Project 3323
Report 1703

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Archaeological watching brief at the New Garden of Remembrance, Bourton-on-the-Water, Gloucestershire

Tom Rogers

With contributions by Dennis Williams

Part 1 Project summary

An archaeological watching brief was undertaken at the New Garden of Remembrance, Bourton-on-Water, Gloucestershire (SP 1718 2080). It was undertaken at the instruction of Paul Gajos of CgMs Consulting Ltd on behalf of their clients, Bourton-on-the-Water Parish Council. The Clients have received planning permission (ref: 06/02046/FUL) for the construction of a garden of remembrance on land adjoining the existing cemetery in Bourton-on-the-Water, which lies within Salmonsbury camp, a Scheduled Ancient Monument (SAM 32392). Scheduled Monument Consent for the works has been granted by the Department of Culture, Media and Sport (ref: HSD9/2/8256). Planning permission was subject to conditions including the requirement for an archaeological watching brief in accordance with a Written Scheme of Investigation. Consultation with the Senior Archaeological Officer for Gloucestershire County Council and English Heritage confirmed that the archaeological works should comprise archaeological monitoring and supervision to be undertaken during groundwork associated with the development.

The watching brief methodology was designed to ensure that the on-site contractors maintained an agreed depth during work preserving archaeological deposits thought likely to survive in the footprint of the cemetery extension. As part of this a level survey of the site was taken before and after the topsoil strip on a 1m grid and levels were checked throughout the process. No groundworks exceeded the depth of the topsoil existing on the site, a garden soil surviving from the allotments that were formerly on the site. No archaeological features were recorded and natural deposits were not encountered. A small assemblage of pottery was recovered from the topsoil that included abraded Roman sherds.

Part 2 Detailed report

1. Background

1.1 Reasons for the project

An archaeological watching brief was undertaken at the New Garden of Remembrance, Bourton-on-Water, Gloucestershire (SP 1718 2080). It was undertaken at the instruction of Paul Gajos of CgMs Consulting Ltd on behalf of their clients, Bourton-on-the-Water Parish Council. The Clients have received planning permission (ref: 06/02046/FUL) for the construction of a garden of remembrance on land adjoining the existing cemetery in Bourton-on-the-Water, which lies within Salmonsbury camp, a Scheduled Ancient Monument (SAM 32392). Scheduled Monument Consent for the works has been granted by the Department of Culture, Media and Sport (ref: HSD9/2/8256).

Planning permission was granted subject to conditions including the requirement for an archaeological watching brief in accordance with a Written Scheme of Investigation which was produced by CgMs Ltd ((CgMs 10028/09/01) superseding a previous specification produced by John Samuels Archaeological Consultants) and approved by English Heritage and the Senior Archaeological Officer for Gloucestershire. This specified that the archaeological works comprising monitoring and supervision during groundworks associated with the development.

1.2 Project parameters

The project conforms to the *Standard and guidance for an archaeological watching brief* (IfA 2008)

The project also conforms to a Written Scheme of Investigation prepared by CgMs Ltd (CgMs 2009) and for which a project proposal (including detailed specification) was produced (HEAS 2009).

1.3 Aims

The primary aim of the archaeological monitoring of the works were to ensure that there was no damage to the Scheduled Ancient Monument during groundworks associated with the construction of the new garden of remembrance and that any exposed archaeological remains were appropriately recorded.

2. Methods

2.1 Documentary search

As desk-based assessment (Bashford 2000) was undertaken in 2000 in association with a previous planning application.

2.2 Fieldwork methodology

2.2.1 Fieldwork strategy

A written scheme of investigation was prepared by CgMs Ltd (CgMs 2009) and a project proposal and method statement prepared by the service (HEAS 2009).

A detailed impact assessment outlining proposed works and mitigation is set out in the Written Scheme of Investigation (Section 3) and the methodology adopted is outlined in Section 4. In summary, archaeological features are known to survive at between 0.3m and 0.4m below the current ground surface and the footprint of the proposed garden of remembrance was stripped to a maximum depth of 100mm and a layer of geotextile laid prior to construction elements of the scheme. It was the responsibility of the monitoring archaeologist to check all levels as they were excavated and halt works if they did not adhere to the parameters laid out in the Written Scheme of Investigation. This involved monitoring the agreed levels, stripping and vehicle movements/rutting up to the point that the works present no further potential threat to the archaeological resource.

Fieldwork was undertaken between 6 March 2009 and 17 April 2009. The site was stripped using a small rubber tracked 360° excavator with a toothless grading bucket and a small dumper. The stripping proceeded from east to west to avoid driving over the newly exposed surface with the car park the last area to be stripped. To maintain the 100mm depth required the site was stripped in alternating bucket width strips approximately 10m in length across the site and the remaining areas were then machined to the adjoining stripped levels. The car park area was stripped in the same manner except the depth of topsoil removed was 150mm.

Prior to the commencement of the excavation spot heights to Ordnance Datum were taken across the site at 1m intervals, this was then repeated following the completion of the ground works to confirm the reduced levels adhered to the specification. No pre-excavation spot heights were possible 6m along the baseline, and 22 to 24m north of the base line, where a compost heap was present.

Deposits were recorded according to standard Service practice (CAS 1995). Clean surfaces were inspected under archaeological supervision.

2.2.2 **Structural analysis**

All fieldwork records were checked and cross-referenced. Analysis was effected through a combination of structural, artefactual and ecofactual evidence, allied to the information derived from other sources.

2.3 **Artefact methodology, by Dennis Williams**

2.3.1 **Artefact recovery policy**

The artefact recovery policy conformed to standard Service practice (CAS 1995, appendix 4).

2.3.2 **Method of analysis**

All hand-retrieved finds were examined and a primary record was made on a Microsoft Access 2000 database. The finds were identified, quantified and dated to period. A *terminus post quem* date was produced for each stratified context. The date was used for determining the broad date of phases defined for the site. All information was recorded on *pro forma* sheets.

The pottery and ceramic building material was examined under ×20 magnification and recorded by fabric type and form according to the fabric reference series maintained by the Service (Hurst and Rees 1992; Hurst 1992; www.worcestershireceramics.org).

3. **The methods in retrospect**

The methods adopted allow a high degree of confidence that the aims of the project have been achieved. Several level readings at 23m from the baseline (Appendix 2) appear to show

a slight increase in height following ground reduction. It is thought that this is a result of an error in instrument reading.

4. **Topographical and archaeological context**

The background to the site has been described in both the desk-based assessment (Bashford 2000) and the Written Scheme of Investigation (CgMs 2009). The following extract is summarised from the Written Scheme of Investigation.

The desk-based (Bashford 2000) assessment concluded that the Iron Age fortified enclosure of Salmonsbury Camp is well preserved, with the exception of the western flank, which has been subject to modern development. Evidence exists within the monument for settlement spanning the late Neolithic/early Bronze Age through to the end of the Roman period. The monument clearly retained significance, being recorded as “Sulmonnes Burg” or ‘ploughman’s stead’ in a charter of Offa of Mercia, dated to AD 779. The camp also gave its name to the Hundred in which Bourton-on-the-Water lies and the Court of the Hundred traditionally met at enclosure’s northern entrance. Several Saxon burials have been recorded dug into the ramparts of the monument and two small cemeteries have also been discovered, one close to the northern rampart and the second close to the south-eastern corner of the enclosure.

Domesday Book (1086) records Bourton among the lands of Evesham Abbey, but it appears that the preference for Stow-on-the-Wold as the market centre for the abbey’s estates meant that Bourton never achieved borough status. The present field pattern within Salmonsbury Camp has been interpreted as suggesting that it was divided into arable strip fields before enclosure.

The manor was granted to Edmund Brydges, Lord Chandos, following the Dissolution and it remained in secular hands, until it was sold off in small lots after 1834. In the 18th century the current allotment field and part of the present cemetery was known as ‘Meeting House ground’ and it is very likely to have been owned by a member of a non-conformist church. In 1700 the Baptists or Paedobaptists opened a new burial ground within the Meeting House Ground and in 1701 a meeting house was constructed within this burial ground. The meeting house was extended in 1744, rebuilt in 1764 and demolished some time before 1880. The burial ground itself was enlarged in 1763.

Following the granting of Scheduled Monument Consent, Bourton-on-the-Water Parish Council commissioned Stratascan to conduct magnetometer and resistivity surveys of the site. A large number of anomalies were identified which were suggestive of ditches and possible pits. The resistivity survey showed two clear low resistance anomalies that are reminiscent of enclosure ditches and possibly relate to internal divisions within Salmonsbury Camp. The results of the surveys were limited by the small size of the survey area and the complexity of anomalies identified.

Bourton-on-the-Water Parish Council also commissioned a trial trench evaluation of the site. This was conducted by Gloucestershire County Council Archaeology Service, in accordance with a specification approved by English Heritage. The evaluation report concluded that a large number of features were cut through the natural gravel in Trenches 1, 2 and 3 and cut through a deposit overlying the gravel in Trench 4. Two visually distinct groups of features were recorded comprising features filled with a mid-orangey brown silty clay which tended to pre-date features filled with a dark or mid-greyish brown silty-clay, some of which contained pottery of Iron Age and Roman date. The earlier features included a posthole, ditch, gully and ring ditch, while the later features included pits, postholes, a ditch, possible trackway and a pit probably containing a human burial. These features were spread across the entire evaluation area at a depth of between 0.3 and 0.4 m below ground level in the area of the cemetery extension and at a depth of 1.05 m below ground level in the proposed access area off Cemetery Lane.

Subsequent to the fieldwork described above a substantial part of the Scheduled Monument has been geophysically surveyed. This work has identified a possible causewayed enclosure and confirms that the Scheduled Area contains dense evidence for activity throughout the prehistoric period.

5. Results

5.1 Structural analysis

The area of the site strip recorded is shown in Fig 1-2 and Plates 1-5. The results of the structural analysis are presented in Appendix 1. The results of the level survey are present in Appendix 2.

5.1.1 Phase 1 Natural deposits

At no point was the natural undisturbed matrix observed.

5.1.2 Phase 2 Roman deposits

Abraded Roman pottery was retrieved from topsoil containing much later material indicating that it was residual in this context.

5.1.3 Phase 3 Post Medieval/Modern deposits

The topsoil comprised of dark brown/black humic sandy clay with frequent organic inclusions with occasional gravel and inclusions of flecks of charcoal. The topsoil was frequently disturbed and contained post medieval pottery and modern debris.

5.2 Artefact analysis, by Dennis Williams

5.2.1 The artefact assemblage

The artefactual assemblage comprised 38 finds with a combined weight of 572g, and dating from the Roman period onwards (Table 1). All of these were recovered from unstratified topsoil. The standard of preservation ranged from fair to good, with variable abrasion amongst the ceramic finds.

| Period | Material class | Count | Weight(g) |
|-----------------|----------------|-------|-----------|
| Roman | Ceramic | 7 | 64 |
| Post-medieval | Ceramic | 12 | 151 |
| Post-medieval | Glass | 2 | 9 |
| Post-medieval | Metal | 2 | 32 |
| Post-med/modern | Ceramic | 9 | 252 |
| Undated | Bone | 2 | 25 |
| Undated | Glass | 1 | 13 |
| Undated | Slag | 1 | 12 |
| Undated | Stone | 2 | 14 |
| Totals: | | 38 | 572 |

Table 1: Quantification of the assemblage.

Pottery

The pottery sherds were grouped and quantified according to fabric type, then dated to their broad production spans, as shown in Table 2. None of the pottery was diagnostic in terms of form.

| Period | Fabric code | Fabric common name | Count | Weight(g) |
|--------------------------|-------------|---------------------------------------|-------|-----------|
| Post-medieval | 81.5 | White salt-glazed stoneware | 2 | 4 |
| Post-medieval/ modern | 85 | Modern china | 2 | 10 |
| Post-medieval/ modern | 100 | Miscellaneous post-medieval wares | 4 | 20 |
| Post-medieval | 90 | Post-medieval orange ware | 7 | 143 |
| Roman | 12 | Severn Valley ware | 3 | 38 |
| Roman | 15 | Coarse sandy grey ware | 2 | 20 |
| Roman | 22 | Black-burnished ware, type 1 (BB1) | 2 | 6 |
| Totals: | | | 22 | 241 |

Table 2: Quantification of the pottery by period and fabric-type

The Roman pottery consisted of Severn Valley ware (fabric 12) and sandy grey wares (fabric 15). The Severn Valley ware sherds included small rim sections from a jar or flagon, and from a bowl, while one of the grey ware sherds was an everted and thickened rim from a jar. None of these commonly occurring forms could be precisely dated within the mid 1st-4th century period of Roman occupation.

No medieval pottery finds were identified. Post-medieval pottery dated from the 18th century. There were a number of orange ware (fabric 90) sherds with glazes ranging in colour from mid orange-brown to dark brown. These were from thick-walled vessels, but with the only evidence of form being an abraded sherd that probably came from a conical lid. Two small sherds of white, salt-glazed stoneware (fabric 81.5) dated from 1720-70.

The remainder of the pottery comprised mass-produced material from the 19th or 20th centuries, with two sherds each of china (fabric 85), glazed earthenware (fabric 100) and unglazed earthenware flowerpot (fabric 100).

5.2.2 Other artefacts

The non-pottery finds were few and unremarkable. Two pieces of flint may possibly have been *débitage* from prehistoric knapping of tools, though their irregular patterns of fracture could equally well have been the result of natural or accidental breakages within the soil.

Three clay pipe stem fragments lacked any stamps or other distinguishing features, so could have been from any time within a broad 17th-19th century date range. Other ceramic finds were fragments from glazed stoneware drain pipes, and part of a garden edging tile.

Other non-pottery finds were two hand-made nails with forged 'rose-heads', a sherd of green vessel glass, very small pieces of iron slag and black glass waste, and a horn core and skull fragment from a goat or sheep.

6. Synthesis

The groundworks did not exceed the depth of the topsoil existing on the site, a garden soil surviving from the allotments that were formerly on the site. The retrieval of Roman material

was not surprising given the known archaeological site within the area; it is usual in these circumstances to recover residual artefacts. No other archaeological deposits, features, layers or structures were recorded and natural deposits were not encountered.

6.1.1 Overview of artefactual evidence

The assemblage, recovered during of topsoil, is of limited archaeological significance, not only because of its small size and range of artefacts, but also as a result of the lack of stratified deposition. The presence of Roman pottery indicates the possibility of long, if not continuous occupation in the area, but it has to be acknowledged that movement of topsoil may have introduced these, and later post-medieval/modern finds from elsewhere. Table 3 presents a recent *terminus post quem* date that reflects, therefore, the uncertain deposition history of the site.

| Context | Material class | Object specific type | Count | Weight(g) | Start date | End date | <i>Terminus post quem</i> |
|---------|----------------|----------------------|-------|-----------|------------|----------|---------------------------|
| 0 | Ceramic | Clay Pipe | 3 | 4 | 1600 | 1900 | 1850-2000 |
| | Ceramic | Garden Edging | 1 | 199 | 1850 | 1950 | |
| | Ceramic | Pipe | 2 | 23 | 1800 | 1950 | |
| | Ceramic | Pot | 3 | 38 | 43 | 400 | |
| | Ceramic | Pot | 2 | 20 | 43 | 400 | |
| | Ceramic | Pot | 2 | 6 | 120 | 400 | |
| | Ceramic | Pot | 2 | 17 | 1800 | 1970 | |
| | Ceramic | Pot | 7 | 143 | 1700 | 1800 | |
| | Ceramic | Pot | 2 | 10 | 1800 | 2000 | |
| | Ceramic | Pot | 2 | 4 | 1720 | 1770 | |
| | Ceramic | Pot | 2 | 3 | 1800 | 2000 | |
| | Glass | Vessel | 2 | 9 | 1800 | 2000 | |
| | Glass | - | 1 | 13 | 0 | 0 | |
| | Metal | Nail | 2 | 32 | 1600 | 1800 | |
| | Slag | - | 1 | 12 | 0 | 0 | |
| Stone | - | 2 | 14 | 0 | 0 | | |

Table 3 Summary of context dating based on artefacts

7. Publication summary

The Service has a professional obligation to publish the results of archaeological projects within a reasonable period of time. To this end, the Service intends to use this summary as the basis for publication through local or regional journals. The client is requested to consider the content of this section as being acceptable for such publication.

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8. **Acknowledgements**

The Service would like to thank the following for their kind assistance in the successful conclusion of this project, Paul Gajos, CgMs Consulting Ltd, Sue Cretney, Parish Clerk, Bourton-on-the-Water Parish Council and Charles Parry, Archaeological Officer, Gloucestershire County Council.

9. **Personnel**

The fieldwork was led by Matthew Simmonds and the report was written by Elizabeth Curran. The project manager responsible for the quality of the project was Tom Rogers. Fieldwork was undertaken by Matthew Simmonds and Sean Rice, finds analysis by Dennis Williams and illustration by Carolyn Hunt.

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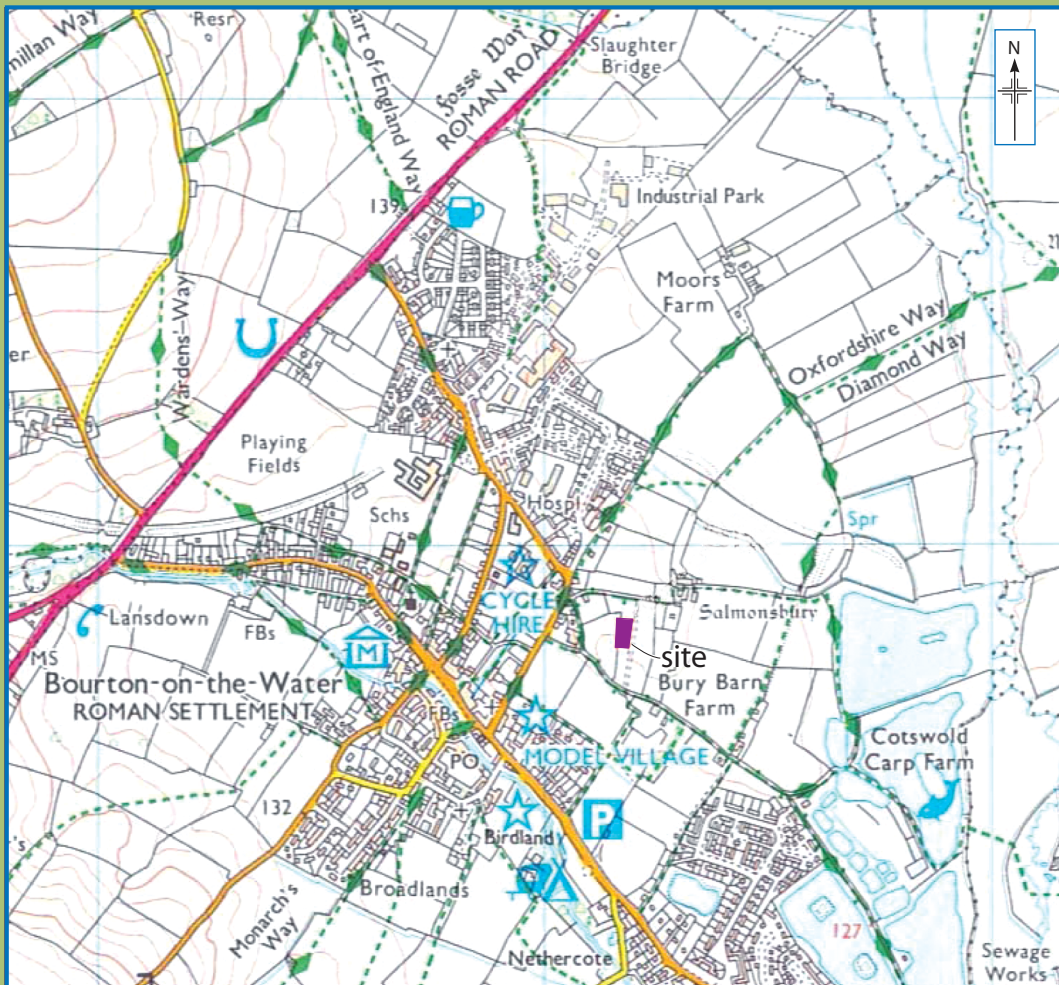
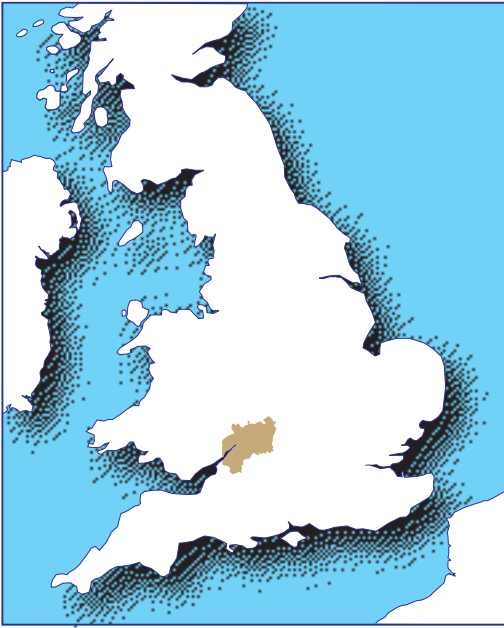
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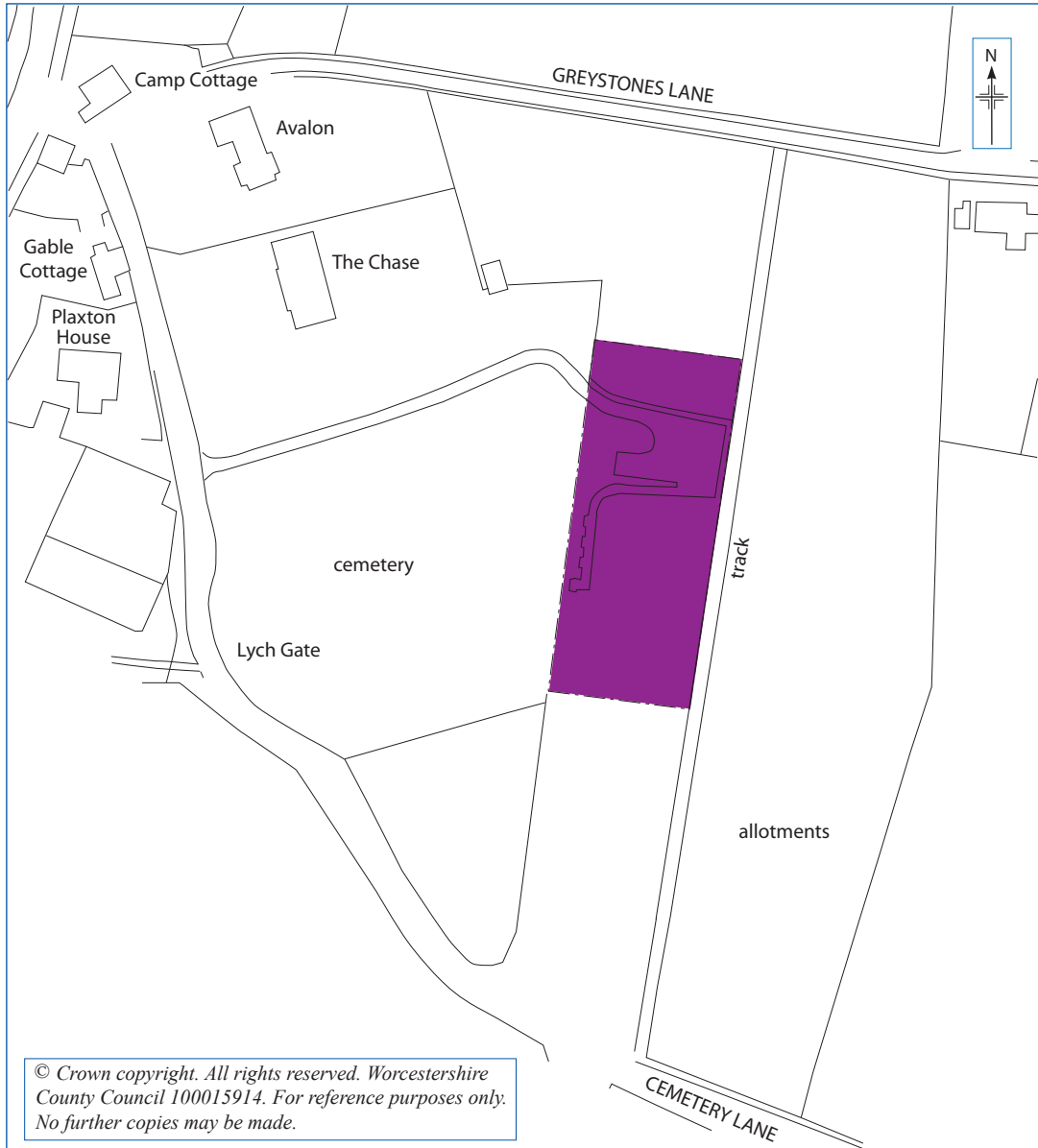
Figures



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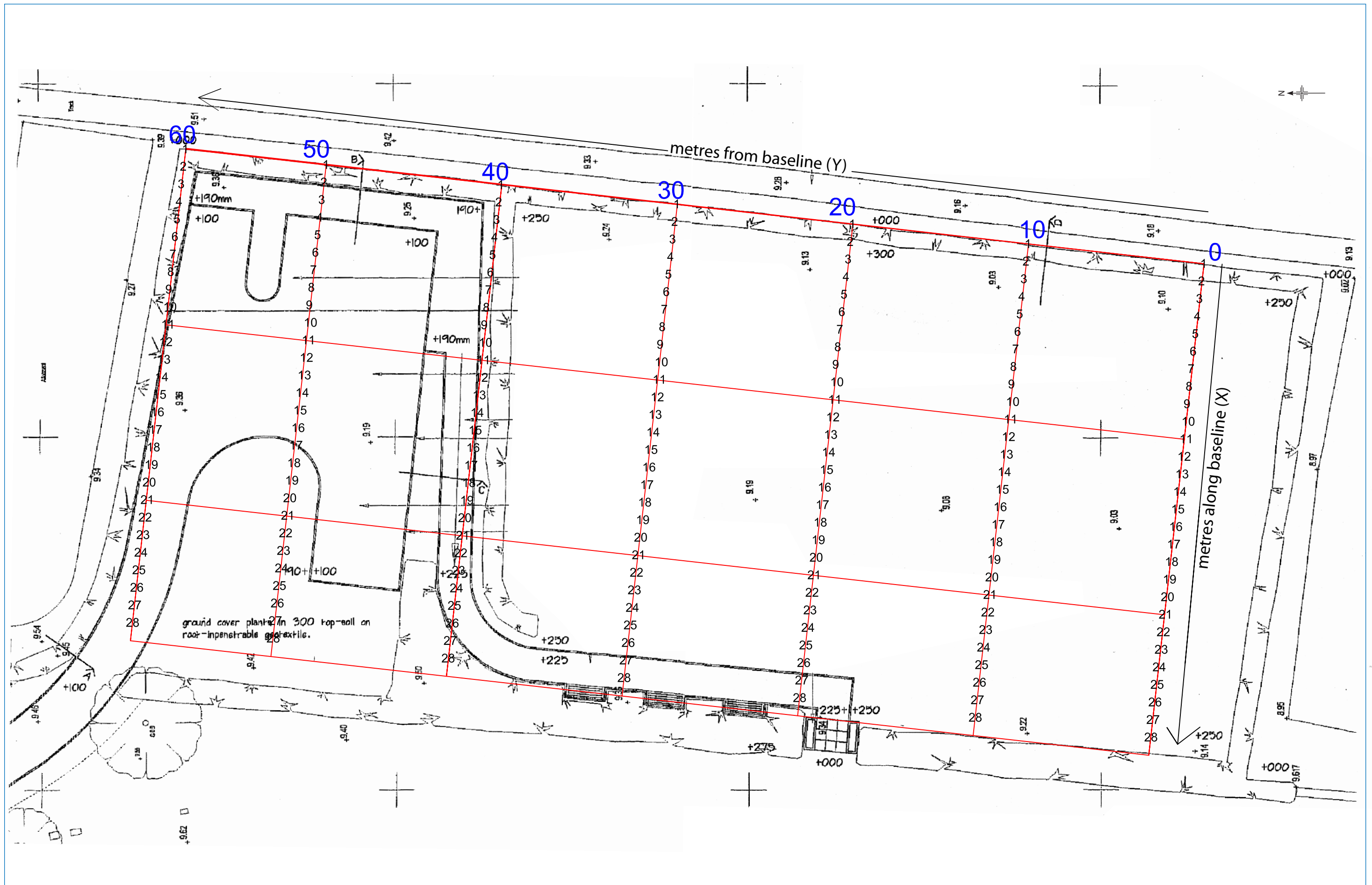
Location of the site

Figure 1



Trench location plan

Figure 2



Plan of site (based upon Alan Pinder drawing no 020904/p22c)

Figure 3

Plates



Plate 1: The site, prior to excavation, view north



Plate 2: Interim site strip, view north west.



Plate 3: Interim site strip, view north west



Plate 4: Interim site strip, view south west



Plate 5: The site following the completion of the strip, view south east

Appendix 1 Trench descriptions

Site Strip

Maximum dimensions: 2015m²

Main deposit description

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 001 | Topsoil | Topsoil comprised a dark brown/black humic sandy clay with frequent organic inclusions with occasional gravel and inclusions of flecks of charcoal. | 0.0 -0.15m |

Appendix 2 Level Survey

Where X is present the value is Metres along the base line. Y is Metres north of the base line. Z is the height difference.

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|---|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 0 | 0 | 134.22 | 1.3 | 1.31 | 134.21 | 134.22 | 1.16 | 1.23 | 134.15 | 0.06 |
| 1 | 0 | 134.22 | 1.3 | 1.31 | 134.21 | 134.22 | 1.16 | 1.24 | 134.14 | 0.07 |
| 2 | 0 | 134.22 | 1.3 | 1.33 | 134.19 | 134.22 | 1.16 | 1.245 | 134.135 | 0.055 |
| 3 | 0 | 134.22 | 1.3 | 1.34 | 134.18 | 134.22 | 1.16 | 1.27 | 134.11 | 0.07 |
| 4 | 0 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.29 | 134.09 | 0.07 |
| 5 | 0 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.305 | 134.075 | 0.06 |
| 6 | 0 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.315 | 134.065 | 0.045 |
| 7 | 0 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.325 | 134.055 | 0.045 |
| 8 | 0 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.325 | 134.055 | 0.055 |
| 9 | 0 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.34 | 134.04 | 0.06 |
| 10 | 0 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.34 | 134.04 | 0.08 |
| 11 | 0 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.35 | 134.03 | 0.07 |
| 12 | 0 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.325 | 134.055 | 0.045 |
| 13 | 0 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.325 | 134.055 | 0.045 |
| 14 | 0 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.32 | 134.06 | 0.04 |
| 15 | 0 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.31 | 134.07 | 0.05 |
| 16 | 0 | 134.22 | 1.3 | 1.415 | 134.105 | 134.22 | 1.16 | 1.315 | 134.065 | 0.04 |
| 17 | 0 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.31 | 134.07 | 0.05 |
| 18 | 0 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.32 | 134.06 | 0.06 |
| 19 | 0 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.32 | 134.06 | 0.06 |
| 20 | 0 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.34 | 134.04 | 0.08 |
| 21 | 0 | 134.22 | 1.3 | 1.415 | 134.105 | 134.22 | 1.16 | 1.35 | 134.03 | 0.075 |
| 22 | 0 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.37 | 134.01 | 0.105 |
| 23 | 0 | 134.22 | 1.3 | 1.47 | 134.05 | 134.22 | 1.16 | 1.37 | 134.01 | 0.04 |
| 24 | 0 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.375 | 134.005 | 0.105 |
| 25 | 0 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.35 | 134.03 | 0.13 |
| 26 | 0 | 134.22 | 1.3 | 1.28 | 134.24 | 134.22 | 1.16 | 1.235 | 134.145 | 0.095 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|---|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 27 | 0 | 134.22 | 1.3 | 1.19 | 134.33 | 134.22 | 1.16 | 1.165 | 134.215 | 0.115 |
| 28 | 0 | 134.22 | 1.3 | 1.13 | 134.39 | 134.22 | 1.16 | 1.075 | 134.305 | 0.085 |
| 0 | 1 | 134.22 | 1.3 | 1.32 | 134.2 | 134.22 | 1.16 | 1.24 | 134.14 | 0.06 |
| 1 | 1 | 134.22 | 1.3 | 1.335 | 134.185 | 134.22 | 1.16 | 1.26 | 134.12 | 0.065 |
| 2 | 1 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.265 | 134.115 | 0.055 |
| 3 | 1 | 134.22 | 1.3 | 1.355 | 134.165 | 134.22 | 1.16 | 1.285 | 134.095 | 0.07 |
| 4 | 1 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.305 | 134.075 | 0.075 |
| 5 | 1 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.32 | 134.06 | 0.08 |
| 6 | 1 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.33 | 134.05 | 0.065 |
| 7 | 1 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.34 | 134.04 | 0.075 |
| 8 | 1 | 134.22 | 1.3 | 1.425 | 134.095 | 134.22 | 1.16 | 1.35 | 134.03 | 0.065 |
| 9 | 1 | 134.22 | 1.3 | 1.425 | 134.095 | 134.22 | 1.16 | 1.35 | 134.03 | 0.065 |
| 10 | 1 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.35 | 134.03 | 0.07 |
| 11 | 1 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.35 | 134.03 | 0.08 |
| 12 | 1 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.34 | 134.04 | 0.07 |
| 13 | 1 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.34 | 134.04 | 0.085 |
| 14 | 1 | 134.22 | 1.3 | 1.33 | 134.19 | 134.22 | 1.16 | 1.33 | 134.05 | 0.14 |
| 15 | 1 | 134.22 | 1.3 | 1.345 | 134.175 | 134.22 | 1.16 | 1.32 | 134.06 | 0.115 |
| 16 | 1 | 134.22 | 1.3 | 1.365 | 134.155 | 134.22 | 1.16 | 1.315 | 134.065 | 0.09 |
| 17 | 1 | 134.22 | 1.3 | 1.345 | 134.175 | 134.22 | 1.16 | 1.32 | 134.06 | 0.115 |
| 18 | 1 | 134.22 | 1.3 | 1.335 | 134.185 | 134.22 | 1.16 | 1.32 | 134.06 | 0.125 |
| 19 | 1 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.33 | 134.05 | 0.11 |
| 20 | 1 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.33 | 134.05 | 0.085 |
| 21 | 1 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.345 | 134.035 | 0.085 |
| 22 | 1 | 134.22 | 1.3 | 1.43 | 134.09 | 134.22 | 1.16 | 1.36 | 134.02 | 0.07 |
| 23 | 1 | 134.22 | 1.3 | 1.44 | 134.08 | 134.22 | 1.16 | 1.37 | 134.01 | 0.07 |
| 24 | 1 | 134.22 | 1.3 | 1.44 | 134.08 | 134.22 | 1.16 | 1.36 | 134.02 | 0.06 |
| 25 | 1 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.34 | 134.04 | 0.105 |
| 26 | 1 | 134.22 | 1.3 | 1.31 | 134.21 | 134.22 | 1.16 | 1.275 | 134.105 | 0.105 |
| 27 | 1 | 134.22 | 1.3 | 1.2 | 134.32 | 134.22 | 1.16 | 1.2 | 134.18 | 0.14 |
| 28 | 1 | 134.22 | 1.3 | 1.12 | 134.4 | 134.22 | 1.16 | 1.125 | 134.255 | 0.145 |
| 0 | 2 | 134.22 | 1.3 | 1.34 | 134.18 | 134.22 | 1.16 | 1.29 | 134.09 | 0.09 |
| 1 | 2 | 134.22 | 1.3 | 1.355 | 134.165 | 134.22 | 1.16 | 1.285 | 134.095 | 0.07 |
| 2 | 2 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.295 | 134.085 | 0.06 |
| 3 | 2 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.305 | 134.075 | 0.075 |
| 4 | 2 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.305 | 134.075 | 0.045 |
| 5 | 2 | 134.22 | 1.3 | 1.415 | 134.105 | 134.22 | 1.16 | 1.315 | 134.065 | 0.04 |
| 6 | 2 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.33 | 134.05 | 0.07 |
| 7 | 2 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.34 | 134.04 | 0.085 |
| 8 | 2 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.365 | 134.015 | 0.085 |
| 9 | 2 | 134.22 | 1.3 | 1.415 | 134.105 | 134.22 | 1.16 | 1.36 | 134.02 | 0.085 |
| 10 | 2 | 134.22 | 1.3 | 1.415 | 134.105 | 134.22 | 1.16 | 1.345 | 134.035 | 0.07 |
| 11 | 2 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.345 | 134.035 | 0.085 |
| 12 | 2 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.33 | 134.05 | 0.08 |
| 13 | 2 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.325 | 134.055 | 0.115 |
| 14 | 2 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.32 | 134.06 | 0.075 |
| 15 | 2 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.32 | 134.06 | 0.075 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|---|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 16 | 2 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.315 | 134.065 | 0.08 |
| 17 | 2 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.305 | 134.075 | 0.07 |
| 18 | 2 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.32 | 134.06 | 0.08 |
| 19 | 2 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.32 | 134.06 | 0.075 |
| 20 | 2 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.315 | 134.065 | 0.075 |
| 21 | 2 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.32 | 134.06 | 0.055 |
| 22 | 2 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.33 | 134.05 | 0.07 |
| 23 | 2 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.35 | 134.03 | 0.09 |
| 24 | 2 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.37 | 134.01 | 0.12 |
| 25 | 2 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.34 | 134.04 | 0.12 |
| 26 | 2 | 134.22 | 1.3 | 1.31 | 134.21 | 134.22 | 1.16 | 1.26 | 134.12 | 0.09 |
| 27 | 2 | 134.22 | 1.3 | 1.23 | 134.29 | 134.22 | 1.16 | 1.18 | 134.2 | 0.09 |
| 28 | 2 | 134.22 | 1.3 | 1.14 | 134.38 | 134.22 | 1.16 | 1.1 | 134.28 | 0.1 |
| 0 | 3 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.29 | 134.09 | 0.06 |
| 1 | 3 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.31 | 134.07 | 0.065 |
| 2 | 3 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.315 | 134.065 | 0.07 |
| 3 | 3 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.32 | 134.06 | 0.07 |
| 4 | 3 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.33 | 134.05 | 0.065 |
| 5 | 3 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.34 | 134.04 | 0.07 |
| 6 | 3 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.33 | 134.05 | 0.07 |
| 7 | 3 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.335 | 134.045 | 0.08 |
| 8 | 3 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.35 | 134.03 | 0.085 |
| 9 | 3 | 134.22 | 1.3 | 1.415 | 134.105 | 134.22 | 1.16 | 1.355 | 134.025 | 0.08 |
| 10 | 3 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.36 | 134.02 | 0.11 |
| 11 | 3 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.34 | 134.04 | 0.085 |
| 12 | 3 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.325 | 134.055 | 0.105 |
| 13 | 3 | 134.22 | 1.3 | 1.34 | 134.18 | 134.22 | 1.16 | 1.31 | 134.07 | 0.11 |
| 14 | 3 | 134.22 | 1.3 | 1.34 | 134.18 | 134.22 | 1.16 | 1.315 | 134.065 | 0.115 |
| 15 | 3 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.31 | 134.07 | 0.09 |
| 16 | 3 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.31 | 134.07 | 0.09 |
| 17 | 3 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.32 | 134.06 | 0.085 |
| 18 | 3 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.31 | 134.07 | 0.055 |
| 19 | 3 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.33 | 134.05 | 0.08 |
| 20 | 3 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.33 | 134.05 | 0.085 |
| 21 | 3 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.33 | 134.05 | 0.095 |
| 22 | 3 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.345 | 134.035 | 0.11 |
| 23 | 3 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.345 | 134.035 | 0.09 |
| 24 | 3 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.35 | 134.03 | 0.07 |
| 25 | 3 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.34 | 134.04 | 0.12 |
| 26 | 3 | 134.22 | 1.3 | 1.33 | 134.19 | 134.22 | 1.16 | 1.25 | 134.13 | 0.06 |
| 27 | 3 | 134.22 | 1.3 | 1.19 | 134.33 | 134.22 | 1.16 | 1.155 | 134.225 | 0.105 |
| 28 | 3 | 134.22 | 1.3 | 1.14 | 134.38 | 134.22 | 1.16 | 1.085 | 134.295 | 0.085 |
| 0 | 4 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.31 | 134.07 | 0.08 |
| 1 | 4 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.32 | 134.06 | 0.065 |
| 2 | 4 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.345 | 134.035 | 0.1 |
| 3 | 4 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.34 | 134.04 | 0.07 |
| 4 | 4 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.34 | 134.04 | 0.09 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|---|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 5 | 4 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.35 | 134.03 | 0.085 |
| 6 | 4 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.335 | 134.045 | 0.065 |
| 7 | 4 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.33 | 134.05 | 0.08 |
| 8 | 4 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.34 | 134.04 | 0.07 |
| 9 | 4 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.35 | 134.03 | 0.07 |
| 10 | 4 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.355 | 134.025 | 0.105 |
| 11 | 4 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.325 | 134.055 | 0.06 |
| 12 | 4 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.31 | 134.07 | 0.08 |
| 13 | 4 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.3 | 134.08 | 0.09 |
| 14 | 4 | 134.22 | 1.3 | 1.365 | 134.155 | 134.22 | 1.16 | 1.3 | 134.08 | 0.075 |
| 15 | 4 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.295 | 134.085 | 0.075 |
| 16 | 4 | 134.22 | 1.3 | 1.365 | 134.155 | 134.22 | 1.16 | 1.31 | 134.07 | 0.085 |
| 17 | 4 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.31 | 134.07 | 0.075 |
| 18 | 4 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.32 | 134.06 | 0.07 |
| 19 | 4 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.34 | 134.04 | 0.09 |
| 20 | 4 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.33 | 134.05 | 0.06 |
| 21 | 4 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.32 | 134.06 | 0.05 |
| 22 | 4 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.36 | 134.02 | 0.1 |
| 23 | 4 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.355 | 134.025 | 0.095 |
| 24 | 4 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.345 | 134.035 | 0.065 |
| 25 | 4 | 134.22 | 1.3 | 1.33 | 134.19 | 134.22 | 1.16 | 1.315 | 134.065 | 0.125 |
| 26 | 4 | 134.22 | 1.3 | 1.28 | 134.24 | 134.22 | 1.16 | 1.225 | 134.155 | 0.085 |
| 27 | 4 | 134.22 | 1.3 | 1.19 | 134.33 | 134.22 | 1.16 | 1.14 | 134.24 | 0.09 |
| 28 | 4 | 134.22 | 1.3 | 1.125 | 134.395 | 134.22 | 1.16 | 1.055 | 134.325 | 0.07 |
| 0 | 5 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.295 | 134.085 | 0.085 |
| 1 | 5 | 134.22 | 1.3 | 1.425 | 134.095 | 134.22 | 1.16 | 1.31 | 134.07 | 0.025 |
| 2 | 5 | 134.22 | 1.3 | 1.46 | 134.06 | 134.22 | 1.16 | 1.34 | 134.04 | 0.02 |
| 3 | 5 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.34 | 134.04 | 0.06 |
| 4 | 5 | 134.22 | 1.3 | 1.415 | 134.105 | 134.22 | 1.16 | 1.335 | 134.045 | 0.06 |
| 5 | 5 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.325 | 134.055 | 0.075 |
| 6 | 5 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.32 | 134.06 | 0.07 |
| 7 | 5 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.32 | 134.06 | 0.04 |
| 8 | 5 | 134.22 | 1.3 | 1.415 | 134.105 | 134.22 | 1.16 | 1.335 | 134.045 | 0.06 |
| 9 | 5 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.345 | 134.035 | 0.065 |
| 10 | 5 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.345 | 134.035 | 0.075 |
| 11 | 5 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.33 | 134.05 | 0.07 |
| 12 | 5 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.305 | 134.075 | 0.075 |
| 13 | 5 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.31 | 134.07 | 0.08 |
| 14 | 5 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.3 | 134.08 | 0.08 |
| 15 | 5 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.3 | 134.08 | 0.055 |
| 16 | 5 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.315 | 134.065 | 0.07 |
| 17 | 5 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.295 | 134.085 | 0.065 |
| 18 | 5 | 134.22 | 1.3 | 1.365 | 134.155 | 134.22 | 1.16 | 1.305 | 134.075 | 0.08 |
| 19 | 5 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.325 | 134.055 | 0.07 |
| 20 | 5 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.325 | 134.055 | 0.045 |
| 21 | 5 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.345 | 134.035 | 0.065 |
| 22 | 5 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.35 | 134.03 | 0.07 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|---|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 23 | 5 | 134.22 | 1.3 | 1.425 | 134.095 | 134.22 | 1.16 | 1.345 | 134.035 | 0.06 |
| 24 | 5 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.34 | 134.04 | 0.08 |
| 25 | 5 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.305 | 134.075 | 0.085 |
| 26 | 5 | 134.22 | 1.3 | 1.31 | 134.21 | 134.22 | 1.16 | 1.23 | 134.15 | 0.06 |
| 27 | 5 | 134.22 | 1.3 | 1.18 | 134.34 | 134.22 | 1.16 | 1.145 | 134.235 | 0.105 |
| 28 | 5 | 134.22 | 1.3 | 1.115 | 134.405 | 134.22 | 1.16 | 1.065 | 134.315 | 0.09 |
| 0 | 6 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.325 | 134.055 | 0.09 |
| 1 | 6 | 134.22 | 1.3 | 1.45 | 134.07 | 134.22 | 1.16 | 1.325 | 134.055 | 0.015 |
| 2 | 6 | 134.22 | 1.3 | 1.45 | 134.07 | 134.22 | 1.16 | 1.34 | 134.04 | 0.03 |
| 3 | 6 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.335 | 134.045 | 0.065 |
| 4 | 6 | 134.22 | 1.3 | 1.435 | 134.085 | 134.22 | 1.16 | 1.325 | 134.055 | 0.03 |
| 5 | 6 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.32 | 134.06 | 0.055 |
| 6 | 6 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.33 | 134.05 | 0.07 |
| 7 | 6 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.355 | 134.025 | 0.095 |
| 8 | 6 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.345 | 134.035 | 0.09 |
| 9 | 6 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.34 | 134.04 | 0.075 |
| 10 | 6 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.33 | 134.05 | 0.065 |
| 11 | 6 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.315 | 134.065 | 0.06 |
| 12 | 6 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.305 | 134.075 | 0.065 |
| 13 | 6 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.3 | 134.08 | 0.07 |
| 14 | 6 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.3 | 134.08 | 0.06 |
| 15 | 6 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.3 | 134.08 | 0.065 |
| 16 | 6 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.3 | 134.08 | 0.08 |
| 17 | 6 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.295 | 134.085 | 0.075 |
| 18 | 6 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.31 | 134.07 | 0.08 |
| 19 | 6 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.325 | 134.055 | 0.075 |
| 20 | 6 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.32 | 134.06 | 0.06 |
| 21 | 6 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.355 | 134.025 | 0.09 |
| 22 | 6 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.335 | 134.045 | 0.085 |
| 23 | 6 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.325 | 134.055 | 0.065 |
| 24 | 6 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.33 | 134.05 | 0.06 |
| 25 | 6 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.285 | 134.095 | 0.075 |
| 26 | 6 | 134.22 | 1.3 | 1.27 | 134.25 | 134.22 | 1.16 | 1.235 | 134.145 | 0.105 |
| 27 | 6 | 134.22 | 1.3 | 1.16 | 134.36 | 134.22 | 1.16 | 1.15 | 134.23 | 0.13 |
| 28 | 6 | 134.22 | 1.3 | 1.08 | 134.44 | 134.22 | 1.16 | 1.07 | 134.31 | 0.13 |
| 0 | 7 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.315 | 134.065 | 0.085 |
| 1 | 7 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.32 | 134.06 | 0.05 |
| 2 | 7 | 134.22 | 1.3 | 1.42 | 134.1 | 134.22 | 1.16 | 1.335 | 134.045 | 0.055 |
| 3 | 7 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.33 | 134.05 | 0.08 |
| 4 | 7 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.33 | 134.05 | 0.075 |
| 5 | 7 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.32 | 134.06 | 0.06 |
| 6 | 7 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.31 | 134.07 | 0.075 |
| 7 | 7 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.32 | 134.06 | 0.085 |
| 8 | 7 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.34 | 134.04 | 0.095 |
| 9 | 7 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.335 | 134.045 | 0.09 |
| 10 | 7 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.33 | 134.05 | 0.085 |
| 11 | 7 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.3 | 134.08 | 0.06 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|---|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 12 | 7 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.3 | 134.08 | 0.065 |
| 13 | 7 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.29 | 134.09 | 0.055 |
| 14 | 7 | 134.22 | 1.3 | 1.34 | 134.18 | 134.22 | 1.16 | 1.275 | 134.105 | 0.075 |
| 15 | 7 | 134.22 | 1.3 | 1.355 | 134.165 | 134.22 | 1.16 | 1.295 | 134.085 | 0.08 |
| 16 | 7 | 134.22 | 1.3 | 1.355 | 134.165 | 134.22 | 1.16 | 1.3 | 134.08 | 0.085 |
| 17 | 7 | 134.22 | 1.3 | 1.345 | 134.175 | 134.22 | 1.16 | 1.285 | 134.095 | 0.08 |
| 18 | 7 | 134.22 | 1.3 | 1.33 | 134.19 | 134.22 | 1.16 | 1.285 | 134.095 | 0.095 |
| 19 | 7 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.295 | 134.085 | 0.085 |
| 20 | 7 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.32 | 134.06 | 0.1 |
| 21 | 7 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.32 | 134.06 | 0.085 |
| 22 | 7 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.32 | 134.06 | 0.08 |
| 23 | 7 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.33 | 134.05 | 0.075 |
| 24 | 7 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.3 | 134.08 | 0.04 |
| 25 | 7 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.285 | 134.095 | 0.075 |
| 26 | 7 | 134.22 | 1.3 | 1.26 | 134.26 | 134.22 | 1.16 | 1.22 | 134.16 | 0.1 |
| 27 | 7 | 134.22 | 1.3 | 1.15 | 134.37 | 134.22 | 1.16 | 1.14 | 134.24 | 0.13 |
| 28 | 7 | 134.22 | 1.3 | 1.085 | 134.435 | 134.22 | 1.16 | 1.055 | 134.325 | 0.11 |
| 0 | 8 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.28 | 134.1 | 0.05 |
| 1 | 8 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.3 | 134.08 | 0.05 |
| 2 | 8 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.325 | 134.055 | 0.065 |
| 3 | 8 | 134.22 | 1.3 | 1.415 | 134.105 | 134.22 | 1.16 | 1.34 | 134.04 | 0.065 |
| 4 | 8 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.33 | 134.05 | 0.065 |
| 5 | 8 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.325 | 134.055 | 0.065 |
| 6 | 8 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.315 | 134.065 | 0.06 |
| 7 | 8 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.32 | 134.06 | 0.08 |
| 8 | 8 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.325 | 134.055 | 0.09 |
| 9 | 8 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.315 | 134.065 | 0.075 |
| 10 | 8 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.305 | 134.075 | 0.06 |
| 11 | 8 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.3 | 134.08 | 0.07 |
| 12 | 8 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.29 | 134.09 | 0.07 |
| 13 | 8 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.275 | 134.105 | 0.065 |
| 14 | 8 | 134.22 | 1.3 | 1.32 | 134.2 | 134.22 | 1.16 | 1.28 | 134.1 | 0.1 |
| 15 | 8 | 134.22 | 1.3 | 1.335 | 134.185 | 134.22 | 1.16 | 1.295 | 134.085 | 0.1 |
| 16 | 8 | 134.22 | 1.3 | 1.335 | 134.185 | 134.22 | 1.16 | 1.285 | 134.095 | 0.09 |
| 17 | 8 | 134.22 | 1.3 | 1.335 | 134.185 | 134.22 | 1.16 | 1.275 | 134.105 | 0.08 |
| 18 | 8 | 134.22 | 1.3 | 1.325 | 134.195 | 134.22 | 1.16 | 1.265 | 134.115 | 0.08 |
| 19 | 8 | 134.22 | 1.3 | 1.345 | 134.175 | 134.22 | 1.16 | 1.29 | 134.09 | 0.085 |
| 20 | 8 | 134.22 | 1.3 | 1.365 | 134.155 | 134.22 | 1.16 | 1.305 | 134.075 | 0.08 |
| 21 | 8 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.3 | 134.08 | 0.06 |
| 22 | 8 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.31 | 134.07 | 0.07 |
| 23 | 8 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.32 | 134.06 | 0.085 |
| 24 | 8 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.29 | 134.09 | 0.03 |
| 25 | 8 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.29 | 134.09 | 0.045 |
| 26 | 8 | 134.22 | 1.3 | 1.28 | 134.24 | 134.22 | 1.16 | 1.235 | 134.145 | 0.095 |
| 27 | 8 | 134.22 | 1.3 | 1.26 | 134.26 | 134.22 | 1.16 | 1.18 | 134.2 | 0.06 |
| 28 | 8 | 134.22 | 1.3 | 1.165 | 134.355 | 134.22 | 1.16 | 1.12 | 134.26 | 0.095 |
| 0 | 9 | 134.22 | 1.3 | 1.365 | 134.155 | 134.22 | 1.16 | 1.245 | 134.135 | 0.02 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 1 | 9 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.31 | 134.07 | 0.07 |
| 2 | 9 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.325 | 134.055 | 0.07 |
| 3 | 9 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.325 | 134.055 | 0.055 |
| 4 | 9 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.32 | 134.06 | 0.065 |
| 5 | 9 | 134.22 | 1.3 | 1.405 | 134.115 | 134.22 | 1.16 | 1.32 | 134.06 | 0.055 |
| 6 | 9 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.33 | 134.05 | 0.08 |
| 7 | 9 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.35 | 134.03 | 0.095 |
| 8 | 9 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.335 | 134.045 | 0.1 |
| 9 | 9 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.32 | 134.06 | 0.085 |
| 10 | 9 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.305 | 134.075 | 0.055 |
| 11 | 9 | 134.22 | 1.3 | 1.345 | 134.175 | 134.22 | 1.16 | 1.295 | 134.085 | 0.09 |
| 12 | 9 | 134.22 | 1.3 | 1.365 | 134.155 | 134.22 | 1.16 | 1.29 | 134.09 | 0.065 |
| 13 | 9 | 134.22 | 1.3 | 1.355 | 134.165 | 134.22 | 1.16 | 1.275 | 134.105 | 0.06 |
| 14 | 9 | 134.22 | 1.3 | 1.34 | 134.18 | 134.22 | 1.16 | 1.27 | 134.11 | 0.07 |
| 15 | 9 | 134.22 | 1.3 | 1.355 | 134.165 | 134.22 | 1.16 | 1.275 | 134.105 | 0.06 |
| 16 | 9 | 134.22 | 1.3 | 1.315 | 134.205 | 134.22 | 1.16 | 1.28 | 134.1 | 0.105 |
| 17 | 9 | 134.22 | 1.3 | 1.28 | 134.24 | 134.22 | 1.16 | 1.27 | 134.11 | 0.13 |
| 18 | 9 | 134.22 | 1.3 | 1.25 | 134.27 | 134.22 | 1.16 | 1.285 | 134.095 | 0.175 |
| 19 | 9 | 134.22 | 1.3 | 1.255 | 134.265 | 134.22 | 1.16 | 1.285 | 134.095 | 0.17 |
| 20 | 9 | 134.22 | 1.3 | 1.345 | 134.175 | 134.22 | 1.16 | 1.3 | 134.08 | 0.095 |
| 21 | 9 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.32 | 134.06 | 0.11 |
| 22 | 9 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.3 | 134.08 | 0.09 |
| 23 | 9 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.31 | 134.07 | 0.07 |
| 24 | 9 | 134.22 | 1.3 | 1.375 | 134.145 | 134.22 | 1.16 | 1.295 | 134.085 | 0.06 |
| 25 | 9 | 134.22 | 1.3 | 1.34 | 134.18 | 134.22 | 1.16 | 1.27 | 134.11 | 0.07 |
| 26 | 9 | 134.22 | 1.3 | 1.335 | 134.185 | 134.22 | 1.16 | 1.25 | 134.13 | 0.055 |
| 27 | 9 | 134.22 | 1.3 | 1.29 | 134.23 | 134.22 | 1.16 | 1.22 | 134.16 | 0.07 |
| 28 | 9 | 134.22 | 1.3 | 1.245 | 134.275 | 134.22 | 1.16 | 1.16 | 134.22 | 0.055 |
| 0 | 10 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.29 | 134.09 | 0.06 |
| 1 | 10 | 134.22 | 1.3 | 1.44 | 134.08 | 134.22 | 1.16 | 1.31 | 134.07 | 0.01 |
| 2 | 10 | 134.22 | 1.3 | 1.41 | 134.11 | 134.22 | 1.16 | 1.325 | 134.055 | 0.055 |
| 3 | 10 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.33 | 134.05 | 0.08 |
| 4 | 10 | 134.22 | 1.3 | 1.4 | 134.12 | 134.22 | 1.16 | 1.33 | 134.05 | 0.07 |
| 5 | 10 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.35 | 134.03 | 0.095 |
| 6 | 10 | 134.22 | 1.3 | 1.395 | 134.125 | 134.22 | 1.16 | 1.335 | 134.045 | 0.08 |
| 7 | 10 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.33 | 134.05 | 0.08 |
| 8 | 10 | 134.22 | 1.3 | 1.385 | 134.135 | 134.22 | 1.16 | 1.33 | 134.05 | 0.085 |
| 9 | 10 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.32 | 134.06 | 0.08 |
| 10 | 10 | 134.22 | 1.3 | 1.39 | 134.13 | 134.22 | 1.16 | 1.305 | 134.075 | 0.055 |
| 11 | 10 | 134.22 | 1.3 | 1.38 | 134.14 | 134.22 | 1.16 | 1.3 | 134.08 | 0.06 |
| 12 | 10 | 134.22 | 1.3 | 1.37 | 134.15 | 134.22 | 1.16 | 1.305 | 134.075 | 0.075 |
| 13 | 10 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.29 | 134.09 | 0.07 |
| 14 | 10 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.285 | 134.095 | 0.075 |
| 15 | 10 | 134.22 | 1.3 | 1.355 | 134.165 | 134.22 | 1.16 | 1.27 | 134.11 | 0.055 |
| 16 | 10 | 134.22 | 1.3 | 1.33 | 134.19 | 134.22 | 1.16 | 1.255 | 134.125 | 0.065 |
| 17 | 10 | 134.22 | 1.3 | 1.325 | 134.195 | 134.22 | 1.16 | 1.27 | 134.11 | 0.085 |
| 18 | 10 | 134.22 | 1.3 | 1.27 | 134.25 | 134.22 | 1.16 | 1.26 | 134.12 | 0.13 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 19 | 10 | 134.22 | 1.3 | 1.285 | 134.235 | 134.22 | 1.16 | 1.25 | 134.13 | 0.105 |
| 20 | 10 | 134.22 | 1.3 | 1.335 | 134.185 | 134.22 | 1.16 | 1.285 | 134.095 | 0.09 |
| 21 | 10 | 134.22 | 1.3 | 1.35 | 134.17 | 134.22 | 1.16 | 1.305 | 134.075 | 0.095 |
| 22 | 10 | 134.22 | 1.3 | 1.36 | 134.16 | 134.22 | 1.16 | 1.3 | 134.08 | 0.08 |
| 23 | 10 | 134.22 | 1.3 | 1.31 | 134.21 | 134.22 | 1.16 | 1.305 | 134.075 | 0.135 |
| 24 | 10 | 134.22 | 1.3 | 1.315 | 134.205 | 134.22 | 1.16 | 1.275 | 134.105 | 0.1 |
| 25 | 10 | 134.22 | 1.3 | 1.355 | 134.165 | 134.22 | 1.16 | 1.265 | 134.115 | 0.05 |
| 26 | 10 | 134.22 | 1.3 | 1.305 | 134.215 | 134.22 | 1.16 | 1.245 | 134.135 | 0.08 |
| 27 | 10 | 134.22 | 1.3 | 1.31 | 134.21 | 134.22 | 1.16 | 1.26 | 134.12 | 0.09 |
| 28 | 10 | 134.22 | 1.3 | 1.245 | 134.275 | 134.22 | 1.16 | 1.24 | 134.14 | 0.135 |
| 0 | 11 | 134.22 | 1.72 | 1.785 | 134.155 | 134.22 | 1.65 | 1.77 | 134.1 | 0.055 |
| 1 | 11 | 134.22 | 1.72 | 1.85 | 134.09 | 134.22 | 1.65 | 1.78 | 134.09 | 0 |
| 2 | 11 | 134.22 | 1.72 | 1.86 | 134.08 | 134.22 | 1.65 | 1.79 | 134.08 | 0 |
| 3 | 11 | 134.22 | 1.72 | 1.83 | 134.11 | 134.22 | 1.65 | 1.79 | 134.08 | 0.03 |
| 4 | 11 | 134.22 | 1.72 | 1.8 | 134.14 | 134.22 | 1.65 | 1.795 | 134.075 | 0.065 |
| 5 | 11 | 134.22 | 1.72 | 1.795 | 134.145 | 134.22 | 1.65 | 1.79 | 134.08 | 0.065 |
| 6 | 11 | 134.22 | 1.72 | 1.81 | 134.13 | 134.22 | 1.65 | 1.77 | 134.1 | 0.03 |
| 7 | 11 | 134.22 | 1.72 | 1.795 | 134.145 | 134.22 | 1.65 | 1.78 | 134.09 | 0.055 |
| 8 | 11 | 134.22 | 1.72 | 1.79 | 134.15 | 134.22 | 1.65 | 1.76 | 134.11 | 0.04 |
| 9 | 11 | 134.22 | 1.72 | 1.805 | 134.135 | 134.22 | 1.65 | 1.77 | 134.1 | 0.035 |
| 10 | 11 | 134.22 | 1.72 | 1.79 | 134.15 | 134.22 | 1.65 | 1.775 | 134.095 | 0.055 |
| 11 | 11 | 134.22 | 1.72 | 1.77 | 134.17 | 134.22 | 1.65 | 1.75 | 134.12 | 0.05 |
| 12 | 11 | 134.22 | 1.72 | 1.77 | 134.17 | 134.22 | 1.65 | 1.76 | 134.11 | 0.06 |
| 13 | 11 | 134.22 | 1.72 | 1.77 | 134.17 | 134.22 | 1.65 | 1.795 | 134.075 | 0.095 |
| 14 | 11 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.65 | 1.765 | 134.105 | 0.055 |
| 15 | 11 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.755 | 134.115 | 0.065 |
| 16 | 11 | 134.22 | 1.72 | 1.715 | 134.225 | 134.22 | 1.65 | 1.75 | 134.12 | 0.105 |
| 17 | 11 | 134.22 | 1.72 | 1.685 | 134.255 | 134.22 | 1.65 | 1.73 | 134.14 | 0.115 |
| 18 | 11 | 134.22 | 1.72 | 1.715 | 134.225 | 134.22 | 1.65 | 1.73 | 134.14 | 0.085 |
| 19 | 11 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.65 | 1.74 | 134.13 | 0.06 |
| 20 | 11 | 134.22 | 1.72 | 1.77 | 134.17 | 134.22 | 1.65 | 1.75 | 134.12 | 0.05 |
| 21 | 11 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.65 | 1.75 | 134.12 | 0.07 |
| 22 | 11 | 134.22 | 1.72 | 1.755 | 134.185 | 134.22 | 1.65 | 1.735 | 134.135 | 0.05 |
| 23 | 11 | 134.22 | 1.72 | 1.73 | 134.21 | 134.22 | 1.65 | 1.735 | 134.135 | 0.075 |
| 24 | 11 | 134.22 | 1.72 | 1.725 | 134.215 | 134.22 | 1.65 | 1.68 | 134.19 | 0.025 |
| 25 | 11 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.72 | 134.15 | 0.03 |
| 26 | 11 | 134.22 | 1.72 | 1.77 | 134.17 | 134.22 | 1.65 | 1.735 | 134.135 | 0.035 |
| 27 | 11 | 134.22 | 1.72 | 1.7 | 134.24 | 134.22 | 1.65 | 1.69 | 134.18 | 0.06 |
| 28 | 11 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.65 | 1.695 | 134.175 | 0.105 |
| 0 | 12 | 134.22 | 1.72 | 1.795 | 135.94 | 134.22 | 1.65 | 1.745 | 134.125 | 1.815 |
| 1 | 12 | 134.22 | 1.72 | 1.8 | 134.145 | 134.22 | 1.65 | 1.79 | 134.08 | 0.065 |
| 2 | 12 | 134.22 | 1.72 | 1.825 | 134.14 | 134.22 | 1.65 | 1.795 | 134.075 | 0.065 |
| 3 | 12 | 134.22 | 1.72 | 1.815 | 134.115 | 134.22 | 1.65 | 1.79 | 134.08 | 0.035 |
| 4 | 12 | 134.22 | 1.72 | 1.815 | 134.125 | 134.22 | 1.65 | 1.805 | 134.065 | 0.06 |
| 5 | 12 | 134.22 | 1.72 | 1.8 | 134.125 | 134.22 | 1.65 | 1.79 | 134.08 | 0.045 |
| 6 | 12 | 134.22 | 1.72 | 1.79 | 134.14 | 134.22 | 1.65 | 1.78 | 134.09 | 0.05 |
| 7 | 12 | 134.22 | 1.72 | 1.775 | 134.15 | 134.22 | 1.65 | 1.78 | 134.09 | 0.06 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 8 | 12 | 134.22 | 1.72 | 1.77 | 134.165 | 134.22 | 1.65 | 1.78 | 134.09 | 0.075 |
| 9 | 12 | 134.22 | 1.72 | 1.78 | 134.17 | 134.22 | 1.65 | 1.815 | 134.055 | 0.115 |
| 10 | 12 | 134.22 | 1.72 | 1.79 | 134.16 | 134.22 | 1.65 | 1.78 | 134.09 | 0.07 |
| 11 | 12 | 134.22 | 1.72 | 1.755 | 134.15 | 134.22 | 1.65 | 1.77 | 134.1 | 0.05 |
| 12 | 12 | 134.22 | 1.72 | 1.76 | 134.185 | 134.22 | 1.65 | 1.76 | 134.11 | 0.075 |
| 13 | 12 | 134.22 | 1.72 | 1.755 | 134.18 | 134.22 | 1.65 | 1.81 | 134.06 | 0.12 |
| 14 | 12 | 134.22 | 1.72 | 1.725 | 134.185 | 134.22 | 1.65 | 1.755 | 134.115 | 0.07 |
| 15 | 12 | 134.22 | 1.72 | 1.695 | 134.215 | 134.22 | 1.65 | 1.745 | 134.125 | 0.09 |
| 16 | 12 | 134.22 | 1.72 | 1.73 | 134.245 | 134.22 | 1.65 | 1.735 | 134.135 | 0.11 |
| 17 | 12 | 134.22 | 1.72 | 1.705 | 134.21 | 134.22 | 1.65 | 1.7 | 134.17 | 0.04 |
| 18 | 12 | 134.22 | 1.72 | 1.745 | 134.235 | 134.22 | 1.65 | 1.725 | 134.145 | 0.09 |
| 19 | 12 | 134.22 | 1.72 | 1.74 | 134.195 | 134.22 | 1.65 | 1.71 | 134.16 | 0.035 |
| 20 | 12 | 134.22 | 1.72 | 1.76 | 134.2 | 134.22 | 1.65 | 1.735 | 134.135 | 0.065 |
| 21 | 12 | 134.22 | 1.72 | 1.755 | 134.185 | 134.22 | 1.65 | 1.7 | 134.17 | 0.015 |
| 22 | 12 | 134.22 | 1.72 | 1.73 | 134.21 | 134.22 | 1.65 | 1.72 | 134.15 | 0.06 |
| 23 | 12 | 134.22 | 1.72 | 1.71 | 134.23 | 134.22 | 1.65 | 1.715 | 134.155 | 0.075 |
| 24 | 12 | 134.22 | 1.72 | 1.715 | 134.225 | 134.22 | 1.65 | 1.71 | 134.16 | 0.065 |
| 25 | 12 | 134.22 | 1.72 | 1.72 | 134.22 | 134.22 | 1.65 | 1.69 | 134.18 | 0.04 |
| 26 | 12 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.755 | 134.115 | 0.065 |
| 27 | 12 | 134.22 | 1.72 | 1.735 | 134.205 | 134.22 | 1.65 | 1.74 | 134.13 | 0.075 |
| 28 | 12 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.65 | 1.69 | 134.18 | 0.1 |
| 0 | 13 | 134.22 | 1.72 | 1.735 | 134.205 | 134.22 | 1.65 | 1.73 | 134.14 | 0.065 |
| 1 | 13 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.65 | 1.75 | 134.12 | 0.04 |
| 2 | 13 | 134.22 | 1.72 | 1.81 | 134.13 | 134.22 | 1.65 | 1.805 | 134.065 | 0.065 |
| 3 | 13 | 134.22 | 1.72 | 1.82 | 134.12 | 134.22 | 1.65 | 1.795 | 134.075 | 0.045 |
| 4 | 13 | 134.22 | 1.72 | 1.79 | 134.15 | 134.22 | 1.65 | 1.805 | 134.065 | 0.085 |
| 5 | 13 | 134.22 | 1.72 | 1.785 | 134.155 | 134.22 | 1.65 | 1.78 | 134.09 | 0.065 |
| 6 | 13 | 134.22 | 1.72 | 1.79 | 134.15 | 134.22 | 1.65 | 1.79 | 134.08 | 0.07 |
| 7 | 13 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.65 | 1.77 | 134.1 | 0.06 |
| 8 | 13 | 134.22 | 1.72 | 1.77 | 134.17 | 134.22 | 1.65 | 1.785 | 134.085 | 0.085 |
| 9 | 13 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.65 | 1.76 | 134.11 | 0.05 |
| 10 | 13 | 134.22 | 1.72 | 1.765 | 134.175 | 134.22 | 1.65 | 1.77 | 134.1 | 0.075 |
| 11 | 13 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.65 | 1.75 | 134.12 | 0.07 |
| 12 | 13 | 134.22 | 1.72 | 1.725 | 134.215 | 134.22 | 1.65 | 1.775 | 134.095 | 0.12 |
| 13 | 13 | 134.22 | 1.72 | 1.7 | 134.24 | 134.22 | 1.65 | 1.785 | 134.085 | 0.155 |
| 14 | 13 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.65 | 1.7 | 134.17 | 0.08 |
| 15 | 13 | 134.22 | 1.72 | 1.655 | 134.285 | 134.22 | 1.65 | 1.72 | 134.15 | 0.135 |
| 16 | 13 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.65 | 1.69 | 134.18 | 0.1 |
| 17 | 13 | 134.22 | 1.72 | 1.695 | 134.245 | 134.22 | 1.65 | 1.675 | 134.195 | 0.05 |
| 18 | 13 | 134.22 | 1.72 | 1.685 | 134.255 | 134.22 | 1.65 | 1.705 | 134.165 | 0.09 |
| 19 | 13 | 134.22 | 1.72 | 1.67 | 134.27 | 134.22 | 1.65 | 1.69 | 134.18 | 0.09 |
| 20 | 13 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.65 | 1.72 | 134.15 | 0.1 |
| 21 | 13 | 134.22 | 1.72 | 1.695 | 134.245 | 134.22 | 1.65 | 1.695 | 134.175 | 0.07 |
| 22 | 13 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.65 | 1.68 | 134.19 | 0.09 |
| 23 | 13 | 134.22 | 1.72 | 1.695 | 134.245 | 134.22 | 1.65 | 1.69 | 134.18 | 0.065 |
| 24 | 13 | 134.22 | 1.72 | 1.7 | 134.24 | 134.22 | 1.65 | 1.725 | 134.145 | 0.095 |
| 25 | 13 | 134.22 | 1.72 | 1.68 | 134.26 | 134.22 | 1.65 | 1.705 | 134.165 | 0.095 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 26 | 13 | 134.22 | 1.72 | 1.655 | 134.285 | 134.22 | 1.65 | 1.72 | 134.15 | 0.135 |
| 27 | 13 | 134.22 | 1.72 | 1.635 | 134.305 | 134.22 | 1.65 | 1.685 | 134.185 | 0.12 |
| 28 | 13 | 134.22 | 1.72 | 1.535 | 134.405 | 134.22 | 1.65 | 1.575 | 134.295 | 0.11 |
| 0 | 14 | 134.22 | 1.72 | 1.73 | 134.21 | 134.22 | 1.65 | 1.71 | 134.16 | 0.05 |
| 1 | 14 | 134.22 | 1.72 | 1.775 | 134.165 | 134.22 | 1.65 | 1.76 | 134.11 | 0.055 |
| 2 | 14 | 134.22 | 1.72 | 1.74 | 134.2 | 134.22 | 1.65 | 1.78 | 134.09 | 0.11 |
| 3 | 14 | 134.22 | 1.72 | 1.775 | 134.165 | 134.22 | 1.65 | 1.81 | 134.06 | 0.105 |
| 4 | 14 | 134.22 | 1.72 | 1.785 | 134.155 | 134.22 | 1.65 | 1.81 | 134.06 | 0.095 |
| 5 | 14 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.65 | 1.775 | 134.095 | 0.065 |
| 6 | 14 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.65 | 1.79 | 134.08 | 0.08 |
| 7 | 14 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.65 | 1.775 | 134.095 | 0.065 |
| 8 | 14 | 134.22 | 1.72 | 1.755 | 134.185 | 134.22 | 1.65 | 1.79 | 134.08 | 0.105 |
| 9 | 14 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.765 | 134.105 | 0.075 |
| 10 | 14 | 134.22 | 1.72 | 1.77 | 134.17 | 134.22 | 1.65 | 1.755 | 134.115 | 0.055 |
| 11 | 14 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.65 | 1.76 | 134.11 | 0.08 |
| 12 | 14 | 134.22 | 1.72 | 1.73 | 134.21 | 134.22 | 1.65 | 1.75 | 134.12 | 0.09 |
| 13 | 14 | 134.22 | 1.72 | 1.715 | 134.225 | 134.22 | 1.65 | 1.775 | 134.095 | 0.13 |
| 14 | 14 | 134.22 | 1.72 | 1.695 | 134.245 | 134.22 | 1.65 | 1.73 | 134.14 | 0.105 |
| 15 | 14 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.65 | 1.68 | 134.19 | 0.11 |
| 16 | 14 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.65 | 1.665 | 134.205 | 0.075 |
| 17 | 14 | 134.22 | 1.72 | 1.675 | 134.265 | 134.22 | 1.65 | 1.68 | 134.19 | 0.075 |
| 18 | 14 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.65 | 1.7 | 134.17 | 0.08 |
| 19 | 14 | 134.22 | 1.72 | 1.695 | 134.245 | 134.22 | 1.65 | 1.7 | 134.17 | 0.075 |
| 20 | 14 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.65 | 1.68 | 134.19 | 0.11 |
| 21 | 14 | 134.22 | 1.72 | 1.665 | 134.275 | 134.22 | 1.65 | 1.675 | 134.195 | 0.08 |
| 22 | 14 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.65 | 1.66 | 134.21 | 0.04 |
| 23 | 14 | 134.22 | 1.72 | 1.695 | 134.245 | 134.22 | 1.65 | 1.685 | 134.185 | 0.06 |
| 24 | 14 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.65 | 1.68 | 134.19 | 0.06 |
| 25 | 14 | 134.22 | 1.72 | 1.67 | 134.27 | 134.22 | 1.65 | 1.65 | 134.22 | 0.05 |
| 26 | 14 | 134.22 | 1.72 | 1.63 | 134.31 | 134.22 | 1.65 | 1.645 | 134.225 | 0.085 |
| 27 | 14 | 134.22 | 1.72 | 1.59 | 134.35 | 134.22 | 1.65 | 1.58 | 134.29 | 0.06 |
| 28 | 14 | 134.22 | 1.72 | 1.48 | 134.46 | 134.22 | 1.65 | 1.55 | 134.32 | 0.14 |
| 0 | 15 | 134.22 | 1.72 | 1.77 | 134.16 | 134.22 | 1.65 | 1.75 | 134.12 | 0.04 |
| 1 | 15 | 134.22 | 1.72 | 1.81 | 134.175 | 134.22 | 1.65 | 1.755 | 134.115 | 0.06 |
| 2 | 15 | 134.22 | 1.72 | 1.775 | 134.19 | 134.22 | 1.65 | 1.795 | 134.075 | 0.115 |
| 3 | 15 | 134.22 | 1.72 | 1.755 | 134.23 | 134.22 | 1.65 | 1.815 | 134.055 | 0.175 |
| 4 | 15 | 134.22 | 1.72 | 1.79 | 134.215 | 134.22 | 1.65 | 1.87 | 134 | 0.215 |
| 5 | 15 | 134.22 | 1.72 | 1.8 | 134.26 | 134.22 | 1.65 | 1.78 | 134.09 | 0.17 |
| 6 | 15 | 134.22 | 1.72 | 1.79 | 134.285 | 134.22 | 1.65 | 1.77 | 134.1 | 0.185 |
| 7 | 15 | 134.22 | 1.72 | 1.775 | 134.28 | 134.22 | 1.65 | 1.77 | 134.1 | 0.18 |
| 8 | 15 | 134.22 | 1.72 | 1.77 | 134.27 | 134.22 | 1.65 | 1.77 | 134.1 | 0.17 |
| 9 | 15 | 134.22 | 1.72 | 1.765 | 134.275 | 134.22 | 1.65 | 1.76 | 134.11 | 0.165 |
| 10 | 15 | 134.22 | 1.72 | 1.78 | 134.285 | 134.22 | 1.65 | 1.75 | 134.12 | 0.165 |
| 11 | 15 | 134.22 | 1.72 | 1.765 | 134.29 | 134.22 | 1.65 | 1.75 | 134.12 | 0.17 |
| 12 | 15 | 134.22 | 1.72 | 1.75 | 134.285 | 134.22 | 1.65 | 1.73 | 134.14 | 0.145 |
| 13 | 15 | 134.22 | 1.72 | 1.71 | 134.285 | 134.22 | 1.65 | 1.735 | 134.135 | 0.15 |
| 14 | 15 | 134.22 | 1.72 | 1.725 | 134.295 | 134.22 | 1.65 | 1.75 | 134.12 | 0.175 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 15 | 15 | 134.22 | 1.72 | 1.68 | 134.31 | 134.22 | 1.65 | 1.67 | 134.2 | 0.11 |
| 16 | 15 | 134.22 | 1.72 | 1.655 | 134.38 | 134.22 | 1.65 | 1.68 | 134.19 | 0.19 |
| 17 | 15 | 134.22 | 1.72 | 1.66 | 134.37 | 134.22 | 1.65 | 1.695 | 134.175 | 0.195 |
| 18 | 15 | 134.22 | 1.72 | 1.67 | 134.48 | 134.22 | 1.65 | 1.69 | 134.18 | 0.3 |
| 19 | 15 | 134.22 | 1.72 | 1.665 | 134.18 | 134.22 | 1.65 | 1.69 | 134.18 | 0 |
| 20 | 15 | 134.22 | 1.72 | 1.655 | 134.285 | 134.22 | 1.65 | 1.675 | 134.195 | 0.09 |
| 21 | 15 | 134.22 | 1.72 | 1.65 | 134.29 | 134.22 | 1.65 | 1.68 | 134.19 | 0.1 |
| 22 | 15 | 134.22 | 1.72 | 1.655 | 134.285 | 134.22 | 1.65 | 1.655 | 134.215 | 0.07 |
| 23 | 15 | 134.22 | 1.72 | 1.655 | 134.285 | 134.22 | 1.65 | 1.655 | 134.215 | 0.07 |
| 24 | 15 | 134.22 | 1.72 | 1.645 | 134.295 | 134.22 | 1.65 | 1.63 | 134.24 | 0.055 |
| 25 | 15 | 134.22 | 1.72 | 1.63 | 134.31 | 134.22 | 1.65 | 1.605 | 134.265 | 0.045 |
| 26 | 15 | 134.22 | 1.72 | 1.56 | 134.38 | 134.22 | 1.65 | 1.585 | 134.285 | 0.095 |
| 27 | 15 | 134.22 | 1.72 | 1.57 | 134.37 | 134.22 | 1.65 | 1.515 | 134.355 | 0.015 |
| 28 | 15 | 134.22 | 1.72 | 1.46 | 134.48 | 134.22 | 1.65 | 1.465 | 134.405 | 0.075 |
| 0 | 16 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.715 | 134.155 | 0.025 |
| 1 | 16 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.715 | 134.155 | 0.025 |
| 2 | 16 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.77 | 134.1 | 0.08 |
| 3 | 16 | 134.22 | 1.72 | 1.775 | 134.165 | 134.22 | 1.65 | 1.8 | 134.07 | 0.095 |
| 4 | 16 | 134.22 | 1.72 | 1.785 | 134.155 | 134.22 | 1.65 | 1.845 | 134.025 | 0.13 |
| 5 | 16 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.79 | 134.08 | 0.1 |
| 6 | 16 | 134.22 | 1.72 | 1.795 | 134.145 | 134.22 | 1.65 | 1.765 | 134.105 | 0.04 |
| 7 | 16 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.77 | 134.1 | 0.08 |
| 8 | 16 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.65 | 1.775 | 134.095 | 0.095 |
| 9 | 16 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.65 | 1.76 | 134.11 | 0.08 |
| 10 | 16 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.65 | 1.74 | 134.13 | 0.06 |
| 11 | 16 | 134.22 | 1.72 | 1.725 | 134.215 | 134.22 | 1.65 | 1.735 | 134.135 | 0.08 |
| 12 | 16 | 134.22 | 1.72 | 1.715 | 134.225 | 134.22 | 1.65 | 1.73 | 134.14 | 0.085 |
| 13 | 16 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.65 | 1.75 | 134.12 | 0.13 |
| 14 | 16 | 134.22 | 1.72 | 1.675 | 134.265 | 134.22 | 1.65 | 1.715 | 134.155 | 0.11 |
| 15 | 16 | 134.22 | 1.72 | 1.65 | 134.29 | 134.22 | 1.65 | 1.68 | 134.19 | 0.1 |
| 16 | 16 | 134.22 | 1.72 | 1.61 | 134.33 | 134.22 | 1.65 | 1.7 | 134.17 | 0.16 |
| 17 | 16 | 134.22 | 1.72 | 1.63 | 134.31 | 134.22 | 1.65 | 1.72 | 134.15 | 0.16 |
| 18 | 16 | 134.22 | 1.72 | 1.65 | 134.29 | 134.22 | 1.65 | 1.67 | 134.2 | 0.09 |
| 19 | 16 | 134.22 | 1.72 | 1.67 | 134.27 | 134.22 | 1.65 | 1.685 | 134.185 | 0.085 |
| 20 | 16 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.65 | 1.655 | 134.215 | 0.105 |
| 21 | 16 | 134.22 | 1.72 | 1.635 | 134.305 | 134.22 | 1.65 | 1.65 | 134.22 | 0.085 |
| 22 | 16 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.65 | 1.66 | 134.21 | 0.09 |
| 23 | 16 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.65 | 1.64 | 134.23 | 0.09 |
| 24 | 16 | 134.22 | 1.72 | 1.6 | 134.34 | 134.22 | 1.65 | 1.65 | 134.22 | 0.12 |
| 25 | 16 | 134.22 | 1.72 | 1.59 | 134.35 | 134.22 | 1.65 | 1.58 | 134.29 | 0.06 |
| 26 | 16 | 134.22 | 1.72 | 1.58 | 134.36 | 134.22 | 1.65 | 1.59 | 134.28 | 0.08 |
| 27 | 16 | 134.22 | 1.72 | 1.45 | 134.49 | 134.22 | 1.65 | 1.52 | 134.35 | 0.14 |
| 28 | 16 | 134.22 | 1.72 | 1.47 | 134.47 | 134.22 | 1.65 | 1.48 | 134.39 | 0.08 |
| 0 | 17 | 134.22 | 1.72 | 1.745 | 134.195 | 134.22 | 1.65 | 1.755 | 134.115 | 0.08 |
| 1 | 17 | 134.22 | 1.72 | 1.74 | 134.2 | 134.22 | 1.65 | 1.77 | 134.1 | 0.1 |
| 2 | 17 | 134.22 | 1.72 | 1.755 | 134.185 | 134.22 | 1.65 | 1.78 | 134.09 | 0.095 |
| 3 | 17 | 134.22 | 1.72 | 1.77 | 134.17 | 134.22 | 1.65 | 1.79 | 134.08 | 0.09 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 4 | 17 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.82 | 134.05 | 0.13 |
| 5 | 17 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.65 | 1.825 | 134.045 | 0.115 |
| 6 | 17 | 134.22 | 1.72 | 1.79 | 134.15 | 134.22 | 1.65 | 1.79 | 134.08 | 0.07 |
| 7 | 17 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.79 | 134.08 | 0.1 |
| 8 | 17 | 134.22 | 1.72 | 1.785 | 134.155 | 134.22 | 1.65 | 1.785 | 134.085 | 0.07 |
| 9 | 17 | 134.22 | 1.72 | 1.73 | 134.21 | 134.22 | 1.65 | 1.735 | 134.135 | 0.075 |
| 10 | 17 | 134.22 | 1.72 | 1.725 | 134.215 | 134.22 | 1.65 | 1.74 | 134.13 | 0.085 |
| 11 | 17 | 134.22 | 1.72 | 1.74 | 134.2 | 134.22 | 1.65 | 1.765 | 134.105 | 0.095 |
| 12 | 17 | 134.22 | 1.72 | 1.71 | 134.23 | 134.22 | 1.65 | 1.745 | 134.125 | 0.105 |
| 13 | 17 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.65 | 1.7 | 134.17 | 0.08 |
| 14 | 17 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.65 | 1.695 | 134.175 | 0.105 |
| 15 | 17 | 134.22 | 1.72 | 1.67 | 134.27 | 134.22 | 1.65 | 1.695 | 134.175 | 0.095 |
| 16 | 17 | 134.22 | 1.72 | 1.625 | 134.315 | 134.22 | 1.65 | 1.685 | 134.185 | 0.13 |
| 17 | 17 | 134.22 | 1.72 | 1.625 | 134.315 | 134.22 | 1.65 | 1.665 | 134.205 | 0.11 |
| 18 | 17 | 134.22 | 1.72 | 1.63 | 134.31 | 134.22 | 1.65 | 1.68 | 134.19 | 0.12 |
| 19 | 17 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.65 | 1.7 | 134.17 | 0.13 |
| 20 | 17 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.65 | 1.675 | 134.195 | 0.085 |
| 21 | 17 | 134.22 | 1.72 | 1.63 | 134.31 | 134.22 | 1.65 | 1.695 | 134.175 | 0.135 |
| 22 | 17 | 134.22 | 1.72 | 1.63 | 134.31 | 134.22 | 1.65 | 1.675 | 134.195 | 0.115 |
| 23 | 17 | 134.22 | 1.72 | 1.59 | 134.35 | 134.22 | 1.65 | 1.65 | 134.22 | 0.13 |
| 24 | 17 | 134.22 | 1.72 | 1.6 | 134.34 | 134.22 | 1.65 | 1.64 | 134.23 | 0.11 |
| 25 | 17 | 134.22 | 1.72 | 1.57 | 134.37 | 134.22 | 1.65 | 1.58 | 134.29 | 0.08 |
| 26 | 17 | 134.22 | 1.72 | 1.505 | 134.435 | 134.22 | 1.65 | 1.56 | 134.31 | 0.125 |
| 27 | 17 | 134.22 | 1.72 | 1.46 | 134.48 | 134.22 | 1.65 | 1.45 | 134.42 | 0.06 |
| 28 | 17 | 134.22 | 1.72 | 1.45 | 134.49 | 134.22 | 1.65 | 1.43 | 134.44 | 0.05 |
| 0 | 18 | 134.22 | 1.72 | 1.73 | 134.21 | 134.22 | 1.65 | 1.735 | 134.135 | 0.075 |
| 1 | 18 | 134.22 | 1.72 | 1.745 | 134.195 | 134.22 | 1.65 | 1.75 | 134.12 | 0.075 |
| 2 | 18 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.65 | 1.8 | 134.07 | 0.18 |
| 3 | 18 | 134.22 | 1.72 | 1.745 | 134.195 | 134.22 | 1.65 | 1.79 | 134.08 | 0.115 |
| 4 | 18 | 134.22 | 1.72 | 1.775 | 134.165 | 134.22 | 1.65 | 1.79 | 134.08 | 0.085 |
| 5 | 18 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.65 | 1.795 | 134.075 | 0.105 |
| 6 | 18 | 134.22 | 1.72 | 1.8 | 134.14 | 134.22 | 1.65 | 1.77 | 134.1 | 0.04 |
| 7 | 18 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.65 | 1.75 | 134.12 | 0.04 |
| 8 | 18 | 134.22 | 1.72 | 1.785 | 134.155 | 134.22 | 1.65 | 1.77 | 134.1 | 0.055 |
| 9 | 18 | 134.22 | 1.72 | 1.755 | 134.185 | 134.22 | 1.65 | 1.74 | 134.13 | 0.055 |
| 10 | 18 | 134.22 | 1.72 | 1.745 | 134.195 | 134.22 | 1.65 | 1.74 | 134.13 | 0.065 |
| 11 | 18 | 134.22 | 1.72 | 1.72 | 134.22 | 134.22 | 1.65 | 1.735 | 134.135 | 0.085 |
| 12 | 18 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.65 | 1.72 | 134.15 | 0.1 |
| 13 | 18 | 134.22 | 1.72 | 1.665 | 134.275 | 134.22 | 1.65 | 1.695 | 134.175 | 0.1 |
| 14 | 18 | 134.22 | 1.72 | 1.655 | 134.285 | 134.22 | 1.65 | 1.655 | 134.215 | 0.07 |
| 15 | 18 | 134.22 | 1.72 | 1.645 | 134.295 | 134.22 | 1.65 | 1.66 | 134.21 | 0.085 |
| 16 | 18 | 134.22 | 1.72 | 1.625 | 134.315 | 134.22 | 1.65 | 1.67 | 134.2 | 0.115 |
| 17 | 18 | 134.22 | 1.72 | 1.61 | 134.33 | 134.22 | 1.65 | 1.685 | 134.185 | 0.145 |
| 18 | 18 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.65 | 1.7 | 134.17 | 0.15 |
| 19 | 18 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.65 | 1.675 | 134.195 | 0.125 |
| 20 | 18 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.65 | 1.655 | 134.215 | 0.085 |
| 21 | 18 | 134.22 | 1.72 | 1.59 | 134.35 | 134.22 | 1.65 | 1.67 | 134.2 | 0.15 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 22 | 18 | 134.22 | 1.72 | 1.625 | 134.315 | 134.22 | 1.65 | 1.645 | 134.225 | 0.09 |
| 23 | 18 | 134.22 | 1.72 | 1.61 | 134.33 | 134.22 | 1.65 | 1.635 | 134.235 | 0.095 |
| 24 | 18 | 134.22 | 1.72 | 1.6 | 134.34 | 134.22 | 1.65 | 1.635 | 134.235 | 0.105 |
| 25 | 18 | 134.22 | 1.72 | 1.575 | 134.365 | 134.22 | 1.65 | 1.575 | 134.295 | 0.07 |
| 26 | 18 | 134.22 | 1.72 | 1.48 | 134.46 | 134.22 | 1.65 | 1.49 | 134.38 | 0.08 |
| 27 | 18 | 134.22 | 1.72 | 1.475 | 134.465 | 134.22 | 1.65 | 1.46 | 134.41 | 0.055 |
| 28 | 18 | 134.22 | 1.72 | 1.45 | 134.49 | 134.22 | 1.65 | 1.415 | 134.455 | 0.035 |
| 0 | 19 | 134.22 | 1.72 | 1.71 | 134.23 | 134.22 | 1.72 | 1.84 | 134.1 | 0.13 |
| 1 | 19 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.72 | 1.835 | 134.105 | 0.085 |
| 2 | 19 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.72 | 1.83 | 134.11 | 0.14 |
| 3 | 19 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.72 | 1.84 | 134.1 | 0.15 |
| 4 | 19 | 134.22 | 1.72 | 1.745 | 134.195 | 134.22 | 1.72 | 1.83 | 134.11 | 0.085 |
| 5 | 19 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.72 | 1.835 | 134.105 | 0.085 |
| 6 | 19 | 134.22 | 1.72 | 1.745 | 134.195 | 134.22 | 1.72 | 1.815 | 134.125 | 0.07 |
| 7 | 19 | 134.22 | 1.72 | 1.785 | 134.155 | 134.22 | 1.72 | 1.83 | 134.11 | 0.045 |
| 8 | 19 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.72 | 1.88 | 134.06 | 0.1 |
| 9 | 19 | 134.22 | 1.72 | 1.755 | 134.185 | 134.22 | 1.72 | 1.81 | 134.13 | 0.055 |
| 10 | 19 | 134.22 | 1.72 | 1.735 | 134.205 | 134.22 | 1.72 | 1.81 | 134.13 | 0.075 |
| 11 | 19 | 134.22 | 1.72 | 1.71 | 134.23 | 134.22 | 1.72 | 1.82 | 134.12 | 0.11 |
| 12 | 19 | 134.22 | 1.72 | 1.7 | 134.24 | 134.22 | 1.72 | 1.83 | 134.11 | 0.13 |
| 13 | 19 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.72 | 1.79 | 134.15 | 0.1 |
| 14 | 19 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.72 | 1.78 | 134.16 | 0.12 |
| 15 | 19 | 134.22 | 1.72 | 1.65 | 134.29 | 134.22 | 1.72 | 1.74 | 134.2 | 0.09 |
| 16 | 19 | 134.22 | 1.72 | 1.615 | 134.325 | 134.22 | 1.72 | 1.75 | 134.19 | 0.135 |
| 17 | 19 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.72 | 1.74 | 134.2 | 0.12 |
| 18 | 19 | 134.22 | 1.72 | 1.605 | 134.335 | 134.22 | 1.72 | 1.73 | 134.21 | 0.125 |
| 19 | 19 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.72 | 1.755 | 134.185 | 0.135 |
| 20 | 19 | 134.22 | 1.72 | 1.63 | 134.31 | 134.22 | 1.72 | 1.73 | 134.21 | 0.1 |
| 21 | 19 | 134.22 | 1.72 | 1.625 | 134.315 | 134.22 | 1.72 | 1.77 | 134.17 | 0.145 |
| 22 | 19 | 134.22 | 1.72 | 1.65 | 134.29 | 134.22 | 1.72 | 1.76 | 134.18 | 0.11 |
| 23 | 19 | 134.22 | 1.72 | 1.585 | 134.355 | 134.22 | 1.72 | 1.71 | 134.23 | 0.125 |
| 24 | 19 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.72 | 1.67 | 134.27 | 0.05 |
| 25 | 19 | 134.22 | 1.72 | 1.56 | 134.38 | 134.22 | 1.72 | 1.63 | 134.31 | 0.07 |
| 26 | 19 | 134.22 | 1.72 | 1.495 | 134.445 | 134.22 | 1.72 | 1.58 | 134.36 | 0.085 |
| 27 | 19 | 134.22 | 1.72 | 1.47 | 134.47 | 134.22 | 1.72 | 1.52 | 134.42 | 0.05 |
| 28 | 19 | 134.22 | 1.72 | 1.415 | 134.525 | 134.22 | 1.72 | 1.5 | 134.44 | 0.085 |
| 0 | 20 | 134.22 | 1.72 | 1.735 | 134.205 | 134.22 | 1.72 | 1.84 | 134.1 | 0.105 |
| 1 | 20 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.72 | 1.86 | 134.08 | 0.11 |
| 2 | 20 | 134.22 | 1.72 | 1.765 | 134.175 | 134.22 | 1.72 | 1.825 | 134.115 | 0.06 |
| 3 | 20 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.72 | 1.84 | 134.1 | 0.09 |
| 4 | 20 | 134.22 | 1.72 | 1.715 | 134.225 | 134.22 | 1.72 | 1.82 | 134.12 | 0.105 |
| 5 | 20 | 134.22 | 1.72 | 1.73 | 134.21 | 134.22 | 1.72 | 1.82 | 134.12 | 0.09 |
| 6 | 20 | 134.22 | 1.72 | 1.755 | 134.185 | 134.22 | 1.72 | 1.79 | 134.15 | 0.035 |
| 7 | 20 | 134.22 | 1.72 | 1.765 | 134.175 | 134.22 | 1.72 | 1.795 | 134.145 | 0.03 |
| 8 | 20 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.72 | 1.83 | 134.11 | 0.07 |
| 9 | 20 | 134.22 | 1.72 | 1.76 | 134.18 | 134.22 | 1.72 | 1.77 | 134.17 | 0.01 |
| 10 | 20 | 134.22 | 1.72 | 1.735 | 134.205 | 134.22 | 1.72 | 1.78 | 134.16 | 0.045 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 11 | 20 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.72 | 1.82 | 134.12 | 0.13 |
| 12 | 20 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.72 | 1.82 | 134.12 | 0.13 |
| 13 | 20 | 134.22 | 1.72 | 1.68 | 134.26 | 134.22 | 1.72 | 1.77 | 134.17 | 0.09 |
| 14 | 20 | 134.22 | 1.72 | 1.65 | 134.29 | 134.22 | 1.72 | 1.78 | 134.16 | 0.13 |
| 15 | 20 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.72 | 1.78 | 134.16 | 0.12 |
| 16 | 20 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.72 | 1.765 | 134.175 | 0.125 |
| 17 | 20 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.72 | 1.715 | 134.225 | 0.095 |
| 18 | 20 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.72 | 1.72 | 134.22 | 0.08 |
| 19 | 20 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.72 | 1.72 | 134.22 | 0.08 |
| 20 | 20 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.72 | 1.78 | 134.16 | 0.16 |
| 21 | 20 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.72 | 1.73 | 134.21 | 0.11 |
| 22 | 20 | 134.22 | 1.72 | 1.65 | 134.29 | 134.22 | 1.72 | 1.73 | 134.21 | 0.08 |
| 23 | 20 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.72 | 1.75 | 134.19 | 0.13 |
| 24 | 20 | 134.22 | 1.72 | 1.59 | 134.35 | 134.22 | 1.72 | 1.7 | 134.24 | 0.11 |
| 25 | 20 | 134.22 | 1.72 | 1.59 | 134.35 | 134.22 | 1.72 | 1.695 | 134.245 | 0.105 |
| 26 | 20 | 134.22 | 1.72 | 1.465 | 134.475 | 134.22 | 1.72 | 1.63 | 134.31 | 0.165 |
| 27 | 20 | 134.22 | 1.72 | 1.455 | 134.485 | 134.22 | 1.72 | 1.57 | 134.37 | 0.115 |
| 28 | 20 | 134.22 | 1.72 | 1.44 | 134.5 | 134.22 | 1.72 | 1.52 | 134.42 | 0.08 |
| 0 | 21 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.72 | 1.82 | 134.12 | 0.13 |
| 1 | 21 | 134.22 | 1.72 | 1.705 | 134.235 | 134.22 | 1.72 | 1.835 | 134.105 | 0.13 |
| 2 | 21 | 134.22 | 1.72 | 1.7 | 134.24 | 134.22 | 1.72 | 1.82 | 134.12 | 0.12 |
| 3 | 21 | 134.22 | 1.72 | 1.71 | 134.23 | 134.22 | 1.72 | 1.82 | 134.12 | 0.11 |
| 4 | 21 | 134.22 | 1.72 | 1.695 | 134.245 | 134.22 | 1.72 | 1.82 | 134.12 | 0.125 |
| 5 | 21 | 134.22 | 1.72 | 1.665 | 134.275 | 134.22 | 1.72 | 1.79 | 134.15 | 0.125 |
| 6 | 21 | 134.22 | 1.72 | N\A | | 134.22 | 1.72 | 1.79 | 134.15 | |
| 7 | 21 | 134.22 | 1.72 | 1.765 | 134.175 | 134.22 | 1.72 | 1.78 | 134.16 | 0.015 |
| 8 | 21 | 134.22 | 1.72 | 1.735 | 134.205 | 134.22 | 1.72 | 1.86 | 134.08 | 0.125 |
| 9 | 21 | 134.22 | 1.72 | 1.73 | 134.21 | 134.22 | 1.72 | 1.78 | 134.16 | 0.05 |
| 10 | 21 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.72 | 1.77 | 134.17 | 0.08 |
| 11 | 21 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.72 | 1.78 | 134.16 | 0.09 |
| 12 | 21 | 134.22 | 1.72 | 1.7 | 134.24 | 134.22 | 1.72 | 1.8 | 134.14 | 0.1 |
| 13 | 21 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.72 | 1.78 | 134.16 | 0.12 |
| 14 | 21 | 134.22 | 1.72 | 1.675 | 134.265 | 134.22 | 1.72 | 1.735 | 134.205 | 0.06 |
| 15 | 21 | 134.22 | 1.72 | 1.65 | 134.29 | 134.22 | 1.72 | 1.73 | 134.21 | 0.08 |
| 16 | 21 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.72 | 1.75 | 134.19 | 0.11 |
| 17 | 21 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.72 | 1.72 | 134.22 | 0.06 |
| 18 | 21 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.72 | 1.72 | 134.22 | 0.08 |
| 19 | 21 | 134.22 | 1.72 | 1.65 | 134.29 | 134.22 | 1.72 | 1.74 | 134.2 | 0.09 |
| 20 | 21 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.72 | 1.74 | 134.2 | 0.12 |
| 21 | 21 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.72 | 1.77 | 134.17 | 0.15 |
| 22 | 21 | 134.22 | 1.72 | 1.655 | 134.285 | 134.22 | 1.72 | 1.71 | 134.23 | 0.055 |
| 23 | 21 | 134.22 | 1.72 | 1.61 | 134.33 | 134.22 | 1.72 | 1.7 | 134.24 | 0.09 |
| 24 | 21 | 134.22 | 1.72 | 1.615 | 134.325 | 134.22 | 1.72 | 1.69 | 134.25 | 0.075 |
| 25 | 21 | 134.22 | 1.72 | 1.58 | 134.36 | 134.22 | 1.72 | 1.65 | 134.29 | 0.07 |
| 26 | 21 | 134.22 | 1.72 | 1.505 | 134.435 | 134.22 | 1.72 | 1.62 | 134.32 | 0.115 |
| 27 | 21 | 134.22 | 1.72 | 1.45 | 134.49 | 134.22 | 1.72 | 1.57 | 134.37 | 0.12 |
| 28 | 21 | 134.22 | 1.72 | 1.445 | 134.495 | 134.22 | 1.72 | 1.48 | 134.46 | 0.035 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|--------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 0 | 22 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.72 | 1.8 | 134.14 | 0.14 |
| 1 | 22 | 134.22 | 1.72 | 1.67 | 134.27 | 134.22 | 1.72 | 1.81 | 134.13 | 0.14 |
| 2 | 22 | 134.22 | 1.72 | 1.69 | 134.25 | 134.22 | 1.72 | 1.79 | 134.15 | 0.1 |
| 3 | 22 | 134.22 | 1.72 | 1.71 | 134.23 | 134.22 | 1.72 | 1.77 | 134.17 | 0.06 |
| 4 | 22 | 134.22 | 1.72 | 1.715 | 134.225 | 134.22 | 1.72 | 1.77 | 134.17 | 0.055 |
| 5 | 22 | 134.22 | 1.72 | 1.78 | 134.16 | 134.22 | 1.72 | 1.8 | 134.14 | 0.02 |
| 6 | 22 | 134.22 | 1.72 | N\A | | 134.22 | 1.72 | 1.78 | 134.16 | |
| 7 | 22 | 134.22 | 1.72 | 1.755 | 134.185 | 134.22 | 1.72 | 1.78 | 134.16 | 0.025 |
| 8 | 22 | 134.22 | 1.72 | 1.75 | 134.19 | 134.22 | 1.72 | 1.81 | 134.13 | 0.06 |
| 9 | 22 | 134.22 | 1.72 | 1.71 | 134.23 | 134.22 | 1.72 | 1.77 | 134.17 | 0.06 |
| 10 | 22 | 134.22 | 1.72 | 1.72 | 134.22 | 134.22 | 1.72 | 1.76 | 134.18 | 0.04 |
| 11 | 22 | 134.22 | 1.72 | 1.71 | 134.23 | 134.22 | 1.72 | 1.76 | 134.18 | 0.05 |
| 12 | 22 | 134.22 | 1.72 | 1.66 | 134.28 | 134.22 | 1.72 | 1.79 | 134.15 | 0.13 |
| 13 | 22 | 134.22 | 1.72 | 1.655 | 134.285 | 134.22 | 1.72 | 1.76 | 134.18 | 0.105 |
| 14 | 22 | 134.22 | 1.72 | 1.645 | 134.295 | 134.22 | 1.72 | 1.73 | 134.21 | 0.085 |
| 15 | 22 | 134.22 | 1.72 | 1.68 | 134.26 | 134.22 | 1.72 | 1.73 | 134.21 | 0.05 |
| 16 | 22 | 134.22 | 1.72 | 1.645 | 134.295 | 134.22 | 1.72 | 1.77 | 134.17 | 0.125 |
| 17 | 22 | 134.22 | 1.72 | 1.625 | 134.315 | 134.22 | 1.72 | 1.715 | 134.225 | 0.09 |
| 18 | 22 | 134.22 | 1.72 | 1.625 | 134.315 | 134.22 | 1.72 | 1.7 | 134.24 | 0.075 |
| 19 | 22 | 134.22 | 1.72 | 1.615 | 134.325 | 134.22 | 1.72 | 1.705 | 134.235 | 0.09 |
| 20 | 22 | 134.22 | 1.72 | 1.62 | 134.32 | 134.22 | 1.72 | 1.72 | 134.22 | 0.1 |
| 21 | 22 | 134.22 | 1.72 | 1.64 | 134.3 | 134.22 | 1.72 | 1.76 | 134.18 | 0.12 |
| 22 | 22 | 134.22 | 1.72 | 1.6 | 134.34 | 134.22 | 1.72 | 1.71 | 134.23 | 0.11 |
| 23 | 22 | 134.22 | 1.72 | 1.595 | 134.345 | 134.22 | 1.72 | 1.695 | 134.245 | 0.1 |
| 24 | 22 | 134.22 | 1.72 | 1.555 | 134.385 | 134.22 | 1.72 | 1.68 | 134.26 | 0.125 |
| 25 | 22 | 134.22 | 1.72 | 1.58 | 134.36 | 134.22 | 1.72 | 1.675 | 134.265 | 0.095 |
| 26 | 22 | 134.22 | 1.72 | 1.46 | 134.48 | 134.22 | 1.72 | 1.61 | 134.33 | 0.15 |
| 27 | 22 | 134.22 | 1.72 | 1.43 | 134.51 | 134.22 | 1.72 | 1.55 | 134.39 | 0.12 |
| 28 | 22 | 134.22 | 1.72 | 1.43 | 134.51 | 134.22 | 1.72 | 1.47 | 134.47 | 0.04 |
| 0 | 23 | 134.22 | 1.38 | 1.635 | 133.965 | 134.22 | 1.72 | 1.78 | 134.16 | -0.195 |
| 1 | 23 | 134.22 | 1.38 | 1.63 | 133.97 | 134.22 | 1.72 | 1.8 | 134.14 | -0.17 |
| 2 | 23 | 134.22 | 1.38 | 1.665 | 133.935 | 134.22 | 1.72 | 1.78 | 134.16 | -0.225 |
| 3 | 23 | 134.22 | 1.38 | 1.665 | 133.935 | 134.22 | 1.72 | 1.79 | 134.15 | -0.215 |
| 4 | 23 | 134.22 | 1.38 | 1.72 | 133.88 | 134.22 | 1.72 | 1.81 | 134.13 | -0.25 |
| 5 | 23 | 134.22 | 1.38 | 1.72 | 133.88 | 134.22 | 1.72 | 1.81 | 134.13 | -0.25 |
| 6 | 23 | 134.22 | 1.38 | N\A | | 134.22 | 1.72 | 1.76 | 134.18 | |
| 7 | 23 | 134.22 | 1.38 | 1.72 | 133.88 | 134.22 | 1.72 | 1.76 | 134.18 | -0.3 |
| 8 | 23 | 134.22 | 1.38 | 1.685 | 133.915 | 134.22 | 1.72 | 1.83 | 134.11 | -0.195 |
| 9 | 23 | 134.22 | 1.38 | 1.7 | 133.9 | 134.22 | 1.72 | 1.74 | 134.2 | -0.3 |
| 10 | 23 | 134.22 | 1.38 | 1.695 | 133.905 | 134.22 | 1.72 | 1.77 | 134.17 | -0.265 |
| 11 | 23 | 134.22 | 1.38 | 1.695 | 133.905 | 134.22 | 1.72 | 1.78 | 134.16 | -0.255 |
| 12 | 23 | 134.22 | 1.38 | 1.67 | 133.93 | 134.22 | 1.72 | 1.78 | 134.16 | -0.23 |
| 13 | 23 | 134.22 | 1.38 | 1.62 | 133.98 | 134.22 | 1.72 | 1.74 | 134.2 | -0.22 |
| 14 | 23 | 134.22 | 1.38 | 1.62 | 133.98 | 134.22 | 1.72 | 1.71 | 134.23 | -0.25 |
| 15 | 23 | 134.22 | 1.38 | 1.625 | 133.975 | 134.22 | 1.72 | 1.74 | 134.2 | -0.225 |
| 16 | 23 | 134.22 | 1.38 | 1.685 | 133.915 | 134.22 | 1.72 | 1.76 | 134.18 | -0.265 |
| 17 | 23 | 134.22 | 1.38 | 1.58 | 134.02 | 134.22 | 1.72 | 1.71 | 134.23 | -0.21 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|--------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 18 | 23 | 134.22 | 1.38 | 1.62 | 133.98 | 134.22 | 1.72 | 1.715 | 134.225 | -0.245 |
| 19 | 23 | 134.22 | 1.38 | 1.59 | 134.01 | 134.22 | 1.72 | 1.74 | 134.2 | -0.19 |
| 20 | 23 | 134.22 | 1.38 | 1.62 | 133.98 | 134.22 | 1.72 | 1.76 | 134.18 | -0.2 |
| 21 | 23 | 134.22 | 1.38 | 1.635 | 133.965 | 134.22 | 1.72 | 1.73 | 134.21 | -0.245 |
| 22 | 23 | 134.22 | 1.38 | 1.555 | 134.045 | 134.22 | 1.72 | 1.71 | 134.23 | -0.185 |
| 23 | 23 | 134.22 | 1.38 | 1.55 | 134.05 | 134.22 | 1.72 | 1.67 | 134.27 | -0.22 |
| 24 | 23 | 134.22 | 1.38 | 1.57 | 134.03 | 134.22 | 1.72 | 1.7 | 134.24 | -0.21 |
| 25 | 23 | 134.22 | 1.38 | 1.59 | 134.01 | 134.22 | 1.72 | 1.64 | 134.3 | -0.29 |
| 26 | 23 | 134.22 | 1.38 | 1.46 | 134.14 | 134.22 | 1.72 | 1.6 | 134.34 | -0.2 |
| 27 | 23 | 134.22 | 1.38 | 1.43 | 134.17 | 134.22 | 1.72 | 1.54 | 134.4 | -0.23 |
| 28 | 23 | 134.22 | 1.38 | 1.37 | 134.23 | 134.22 | 1.72 | 1.46 | 134.48 | -0.25 |
| 0 | 24 | 134.22 | 1.7 | 1.655 | 134.265 | 134.22 | 1.72 | 1.73 | 134.21 | 0.055 |
| 1 | 24 | 134.22 | 1.7 | 1.65 | 134.27 | 134.22 | 1.72 | 1.76 | 134.18 | 0.09 |
| 2 | 24 | 134.22 | 1.7 | 1.635 | 134.285 | 134.22 | 1.72 | 1.76 | 134.18 | 0.105 |
| 3 | 24 | 134.22 | 1.7 | 1.66 | 134.26 | 134.22 | 1.72 | 1.76 | 134.18 | 0.08 |
| 4 | 24 | 134.22 | 1.7 | 1.645 | 134.275 | 134.22 | 1.72 | 1.78 | 134.16 | 0.115 |
| 5 | 24 | 134.22 | 1.7 | N/A | | 134.22 | 1.72 | 1.77 | 134.17 | |
| 6 | 24 | 134.22 | 1.7 | N/A | | 134.22 | 1.72 | 1.74 | 134.2 | |
| 7 | 24 | 134.22 | 1.7 | 1.66 | 134.26 | 134.22 | 1.72 | 1.75 | 134.19 | 0.07 |
| 8 | 24 | 134.22 | 1.7 | 1.685 | 134.235 | 134.22 | 1.72 | 1.73 | 134.21 | 0.025 |
| 9 | 24 | 134.22 | 1.7 | 1.665 | 134.255 | 134.22 | 1.72 | 1.77 | 134.17 | 0.085 |
| 10 | 24 | 134.22 | 1.7 | 1.665 | 134.255 | 134.22 | 1.72 | 1.74 | 134.2 | 0.055 |
| 11 | 24 | 134.22 | 1.7 | 1.595 | 134.325 | 134.22 | 1.72 | 1.74 | 134.2 | 0.125 |
| 12 | 24 | 134.22 | 1.7 | 1.655 | 134.265 | 134.22 | 1.72 | 1.77 | 134.17 | 0.095 |
| 13 | 24 | 134.22 | 1.7 | 1.615 | 134.305 | 134.22 | 1.72 | 1.74 | 134.2 | 0.105 |
| 14 | 24 | 134.22 | 1.7 | 1.595 | 134.325 | 134.22 | 1.72 | 1.71 | 134.23 | 0.095 |
| 15 | 24 | 134.22 | 1.7 | 1.575 | 134.345 | 134.22 | 1.72 | 1.71 | 134.23 | 0.115 |
| 16 | 24 | 134.22 | 1.7 | 1.565 | 134.355 | 134.22 | 1.72 | 1.71 | 134.23 | 0.125 |
| 17 | 24 | 134.22 | 1.7 | 1.56 | 134.36 | 134.22 | 1.72 | 1.75 | 134.19 | 0.17 |
| 18 | 24 | 134.22 | 1.7 | 1.565 | 134.355 | 134.22 | 1.72 | 1.7 | 134.24 | 0.115 |
| 19 | 24 | 134.22 | 1.7 | 1.585 | 134.335 | 134.22 | 1.72 | 1.71 | 134.23 | 0.105 |
| 20 | 24 | 134.22 | 1.7 | 1.62 | 134.3 | 134.22 | 1.72 | 1.71 | 134.23 | 0.07 |
| 21 | 24 | 134.22 | 1.7 | 1.61 | 134.31 | 134.22 | 1.72 | 1.74 | 134.2 | 0.11 |
| 22 | 24 | 134.22 | 1.7 | 1.565 | 134.355 | 134.22 | 1.72 | 1.71 | 134.23 | 0.125 |
| 23 | 24 | 134.22 | 1.7 | 1.54 | 134.38 | 134.22 | 1.72 | 1.69 | 134.25 | 0.13 |
| 24 | 24 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.69 | 134.25 | 0.08 |
| 25 | 24 | 134.22 | 1.7 | 1.53 | 134.39 | 134.22 | 1.72 | 1.66 | 134.28 | 0.11 |
| 26 | 24 | 134.22 | 1.7 | 1.515 | 134.405 | 134.22 | 1.72 | 1.63 | 134.31 | 0.095 |
| 27 | 24 | 134.22 | 1.7 | 1.435 | 134.485 | 134.22 | 1.72 | 1.56 | 134.38 | 0.105 |
| 28 | 24 | 134.22 | 1.7 | 1.39 | 134.53 | 134.22 | 1.72 | 1.47 | 134.47 | 0.06 |
| 0 | 25 | 134.22 | 1.7 | 1.645 | 134.275 | 134.22 | 1.72 | 1.75 | 134.19 | 0.085 |
| 1 | 25 | 134.22 | 1.7 | 1.6 | 134.32 | 134.22 | 1.72 | 1.77 | 134.17 | 0.15 |
| 2 | 25 | 134.22 | 1.7 | 1.6 | 134.32 | 134.22 | 1.72 | 1.74 | 134.2 | 0.12 |
| 3 | 25 | 134.22 | 1.7 | 1.605 | 134.315 | 134.22 | 1.72 | 1.75 | 134.19 | 0.125 |
| 4 | 25 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.76 | 134.18 | 0.15 |
| 5 | 25 | 134.22 | 1.7 | 1.555 | 134.365 | 134.22 | 1.72 | 1.72 | 134.22 | 0.145 |
| 6 | 25 | 134.22 | 1.7 | 1.58 | 134.34 | 134.22 | 1.72 | 1.73 | 134.21 | 0.13 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 7 | 25 | 134.22 | 1.7 | 1.58 | 134.34 | 134.22 | 1.72 | 1.73 | 134.21 | 0.13 |
| 8 | 25 | 134.22 | 1.7 | 1.63 | 134.29 | 134.22 | 1.72 | 1.775 | 134.165 | 0.125 |
| 9 | 25 | 134.22 | 1.7 | 1.595 | 134.325 | 134.22 | 1.72 | 1.73 | 134.21 | 0.115 |
| 10 | 25 | 134.22 | 1.7 | 1.615 | 134.305 | 134.22 | 1.72 | 1.73 | 134.21 | 0.095 |
| 11 | 25 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.73 | 134.21 | 0.12 |
| 12 | 25 | 134.22 | 1.7 | 1.615 | 134.305 | 134.22 | 1.72 | 1.765 | 134.175 | 0.13 |
| 13 | 25 | 134.22 | 1.7 | 1.6 | 134.32 | 134.22 | 1.72 | 1.71 | 134.23 | 0.09 |
| 14 | 25 | 134.22 | 1.7 | 1.6 | 134.32 | 134.22 | 1.72 | 1.69 | 134.25 | 0.07 |
| 15 | 25 | 134.22 | 1.7 | 1.56 | 134.36 | 134.22 | 1.72 | 1.69 | 134.25 | 0.11 |
| 16 | 25 | 134.22 | 1.7 | 1.555 | 134.365 | 134.22 | 1.72 | 1.675 | 134.265 | 0.1 |
| 17 | 25 | 134.22 | 1.7 | 1.515 | 134.405 | 134.22 | 1.72 | 1.66 | 134.28 | 0.125 |
| 18 | 25 | 134.22 | 1.7 | 1.565 | 134.355 | 134.22 | 1.72 | 1.66 | 134.28 | 0.075 |
| 19 | 25 | 134.22 | 1.7 | 1.55 | 134.37 | 134.22 | 1.72 | 1.66 | 134.28 | 0.09 |
| 20 | 25 | 134.22 | 1.7 | 1.56 | 134.36 | 134.22 | 1.72 | 1.69 | 134.25 | 0.11 |
| 21 | 25 | 134.22 | 1.7 | 1.555 | 134.365 | 134.22 | 1.72 | 1.74 | 134.2 | 0.165 |
| 22 | 25 | 134.22 | 1.7 | 1.55 | 134.37 | 134.22 | 1.72 | 1.7 | 134.24 | 0.13 |
| 23 | 25 | 134.22 | 1.7 | 1.525 | 134.395 | 134.22 | 1.72 | 1.67 | 134.27 | 0.125 |
| 24 | 25 | 134.22 | 1.7 | 1.51 | 134.41 | 134.22 | 1.72 | 1.65 | 134.29 | 0.12 |
| 25 | 25 | 134.22 | 1.7 | 1.54 | 134.38 | 134.22 | 1.72 | 1.63 | 134.31 | 0.07 |
| 26 | 25 | 134.22 | 1.7 | 1.47 | 134.45 | 134.22 | 1.72 | 1.59 | 134.35 | 0.1 |
| 27 | 25 | 134.22 | 1.7 | 1.45 | 134.47 | 134.22 | 1.72 | 1.52 | 134.42 | 0.05 |
| 28 | 25 | 134.22 | 1.7 | 1.4 | 134.52 | 134.22 | 1.72 | 1.46 | 134.48 | 0.04 |
| 0 | 26 | 134.22 | 1.7 | 1.625 | 134.295 | 134.22 | 1.72 | 1.77 | 134.17 | 0.125 |
| 1 | 26 | 134.22 | 1.7 | 1.65 | 134.27 | 134.22 | 1.72 | 1.79 | 134.15 | 0.12 |
| 2 | 26 | 134.22 | 1.7 | 1.595 | 134.325 | 134.22 | 1.72 | 1.77 | 134.17 | 0.155 |
| 3 | 26 | 134.22 | 1.7 | 1.595 | 134.325 | 134.22 | 1.72 | 1.72 | 134.22 | 0.105 |
| 4 | 26 | 134.22 | 1.7 | 1.61 | 134.31 | 134.22 | 1.72 | 1.74 | 134.2 | 0.11 |
| 5 | 26 | 134.22 | 1.7 | 1.61 | 134.31 | 134.22 | 1.72 | 1.7 | 134.24 | 0.07 |
| 6 | 26 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.7 | 134.24 | 0.09 |
| 7 | 26 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.71 | 134.23 | 0.1 |
| 8 | 26 | 134.22 | 1.7 | 1.605 | 134.315 | 134.22 | 1.72 | 1.78 | 134.16 | 0.155 |
| 9 | 26 | 134.22 | 1.7 | 1.615 | 134.305 | 134.22 | 1.72 | 1.76 | 134.18 | 0.125 |
| 10 | 26 | 134.22 | 1.7 | 1.6 | 134.32 | 134.22 | 1.72 | 1.72 | 134.22 | 0.1 |
| 11 | 26 | 134.22 | 1.7 | 1.61 | 134.31 | 134.22 | 1.72 | 1.69 | 134.25 | 0.06 |
| 12 | 26 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.705 | 134.235 | 0.095 |
| 13 | 26 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.7 | 134.24 | 0.09 |
| 14 | 26 | 134.22 | 1.7 | 1.52 | 134.4 | 134.22 | 1.72 | 1.71 | 134.23 | 0.17 |
| 15 | 26 | 134.22 | 1.7 | 1.56 | 134.36 | 134.22 | 1.72 | 1.68 | 134.26 | 0.1 |
| 16 | 26 | 134.22 | 1.7 | 1.53 | 134.39 | 134.22 | 1.72 | 1.7 | 134.24 | 0.15 |
| 17 | 26 | 134.22 | 1.7 | 1.54 | 134.38 | 134.22 | 1.72 | 1.69 | 134.25 | 0.13 |
| 18 | 26 | 134.22 | 1.7 | 1.55 | 134.37 | 134.22 | 1.72 | 1.67 | 134.27 | 0.1 |
| 19 | 26 | 134.22 | 1.7 | 1.565 | 134.355 | 134.22 | 1.72 | 1.67 | 134.27 | 0.085 |
| 20 | 26 | 134.22 | 1.7 | 1.53 | 134.39 | 134.22 | 1.72 | 1.695 | 134.245 | 0.145 |
| 21 | 26 | 134.22 | 1.7 | 1.515 | 134.405 | 134.22 | 1.72 | 1.68 | 134.26 | 0.145 |
| 22 | 26 | 134.22 | 1.7 | 1.57 | 134.35 | 134.22 | 1.72 | 1.68 | 134.26 | 0.09 |
| 23 | 26 | 134.22 | 1.7 | 1.52 | 134.4 | 134.22 | 1.72 | 1.69 | 134.25 | 0.15 |
| 24 | 26 | 134.22 | 1.7 | 1.515 | 134.405 | 134.22 | 1.72 | 1.66 | 134.28 | 0.125 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 25 | 26 | 134.22 | 1.7 | 1.51 | 134.41 | 134.22 | 1.72 | 1.64 | 134.3 | 0.11 |
| 26 | 26 | 134.22 | 1.7 | 1.495 | 134.425 | 134.22 | 1.72 | 1.6 | 134.34 | 0.085 |
| 27 | 26 | 134.22 | 1.7 | 1.425 | 134.495 | 134.22 | 1.72 | 1.56 | 134.38 | 0.115 |
| 28 | 26 | 134.22 | 1.7 | 1.49 | 134.43 | 134.22 | 1.72 | 1.53 | 134.41 | 0.02 |
| 0 | 27 | 134.22 | 1.7 | 1.61 | 134.31 | 134.22 | 1.72 | 1.71 | 134.23 | 0.08 |
| 1 | 27 | 134.22 | 1.7 | 1.63 | 134.29 | 134.22 | 1.72 | 1.74 | 134.2 | 0.09 |
| 2 | 27 | 134.22 | 1.7 | 1.62 | 134.3 | 134.22 | 1.72 | 1.76 | 134.18 | 0.12 |
| 3 | 27 | 134.22 | 1.7 | 1.605 | 134.315 | 134.22 | 1.72 | 1.725 | 134.215 | 0.1 |
| 4 | 27 | 134.22 | 1.7 | 1.625 | 134.295 | 134.22 | 1.72 | 1.73 | 134.21 | 0.085 |
| 5 | 27 | 134.22 | 1.7 | 1.63 | 134.29 | 134.22 | 1.72 | 1.735 | 134.205 | 0.085 |
| 6 | 27 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.715 | 134.225 | 0.105 |
| 7 | 27 | 134.22 | 1.7 | 1.63 | 134.29 | 134.22 | 1.72 | 1.755 | 134.185 | 0.105 |
| 8 | 27 | 134.22 | 1.7 | 1.62 | 134.3 | 134.22 | 1.72 | 1.72 | 134.22 | 0.08 |
| 9 | 27 | 134.22 | 1.7 | 1.615 | 134.305 | 134.22 | 1.72 | 1.73 | 134.21 | 0.095 |
| 10 | 27 | 134.22 | 1.7 | 1.585 | 134.335 | 134.22 | 1.72 | 1.695 | 134.245 | 0.09 |
| 11 | 27 | 134.22 | 1.7 | 1.61 | 134.31 | 134.22 | 1.72 | 1.7 | 134.24 | 0.07 |
| 12 | 27 | 134.22 | 1.7 | 1.56 | 134.36 | 134.22 | 1.72 | 1.7 | 134.24 | 0.12 |
| 13 | 27 | 134.22 | 1.7 | 1.575 | 134.345 | 134.22 | 1.72 | 1.68 | 134.26 | 0.085 |
| 14 | 27 | 134.22 | 1.7 | 1.56 | 134.36 | 134.22 | 1.72 | 1.665 | 134.275 | 0.085 |
| 15 | 27 | 134.22 | 1.7 | 1.5 | 134.42 | 134.22 | 1.72 | 1.65 | 134.29 | 0.13 |
| 16 | 27 | 134.22 | 1.7 | 1.525 | 134.395 | 134.22 | 1.72 | 1.67 | 134.27 | 0.125 |
| 17 | 27 | 134.22 | 1.7 | 1.535 | 134.385 | 134.22 | 1.72 | 1.64 | 134.3 | 0.085 |
| 18 | 27 | 134.22 | 1.7 | 1.545 | 134.375 | 134.22 | 1.72 | 1.63 | 134.31 | 0.065 |
| 19 | 27 | 134.22 | 1.7 | 1.53 | 134.39 | 134.22 | 1.72 | 1.65 | 134.29 | 0.1 |
| 20 | 27 | 134.22 | 1.7 | 1.505 | 134.415 | 134.22 | 1.72 | 1.66 | 134.28 | 0.135 |
| 21 | 27 | 134.22 | 1.7 | 1.5 | 134.42 | 134.22 | 1.72 | 1.63 | 134.31 | 0.11 |
| 22 | 27 | 134.22 | 1.7 | 1.57 | 134.35 | 134.22 | 1.72 | 1.64 | 134.3 | 0.05 |
| 23 | 27 | 134.22 | 1.7 | 1.525 | 134.395 | 134.22 | 1.72 | 1.64 | 134.3 | 0.095 |
| 24 | 27 | 134.22 | 1.7 | 1.53 | 134.39 | 134.22 | 1.72 | 1.64 | 134.3 | 0.09 |
| 25 | 27 | 134.22 | 1.7 | 1.52 | 134.4 | 134.22 | 1.72 | 1.63 | 134.31 | 0.09 |
| 26 | 27 | 134.22 | 1.7 | 1.44 | 134.48 | 134.22 | 1.72 | 1.6 | 134.34 | 0.14 |
| 27 | 27 | 134.22 | 1.7 | 1.4 | 134.52 | 134.22 | 1.72 | 1.58 | 134.36 | 0.16 |
| 28 | 27 | 134.22 | 1.7 | 1.43 | 134.49 | 134.22 | 1.72 | 1.47 | 134.47 | 0.02 |
| 0 | 28 | 134.22 | 1.7 | 1.635 | 134.285 | 134.22 | 1.72 | 1.71 | 134.23 | 0.055 |
| 1 | 28 | 134.22 | 1.7 | 1.6 | 134.32 | 134.22 | 1.72 | 1.72 | 134.22 | 0.1 |
| 2 | 28 | 134.22 | 1.7 | 1.615 | 134.305 | 134.22 | 1.72 | 1.71 | 134.23 | 0.075 |
| 3 | 28 | 134.22 | 1.7 | 1.6 | 134.32 | 134.22 | 1.72 | 1.715 | 134.225 | 0.095 |
| 4 | 28 | 134.22 | 1.7 | 1.635 | 134.285 | 134.22 | 1.72 | 1.73 | 134.21 | 0.075 |
| 5 | 28 | 134.22 | 1.7 | 1.61 | 134.31 | 134.22 | 1.72 | 1.735 | 134.205 | 0.105 |
| 6 | 28 | 134.22 | 1.7 | 1.69 | 134.23 | 134.22 | 1.72 | 1.735 | 134.205 | 0.025 |
| 7 | 28 | 134.22 | 1.7 | 1.6 | 134.32 | 134.22 | 1.72 | 1.765 | 134.175 | 0.145 |
| 8 | 28 | 134.22 | 1.7 | 1.56 | 134.36 | 134.22 | 1.72 | 1.73 | 134.21 | 0.15 |
| 9 | 28 | 134.22 | 1.7 | 1.58 | 134.34 | 134.22 | 1.72 | 1.695 | 134.245 | 0.095 |
| 10 | 28 | 134.22 | 1.7 | 1.595 | 134.325 | 134.22 | 1.72 | 1.7 | 134.24 | 0.085 |
| 11 | 28 | 134.22 | 1.7 | 1.58 | 134.34 | 134.22 | 1.72 | 1.71 | 134.23 | 0.11 |
| 12 | 28 | 134.22 | 1.7 | 1.56 | 134.36 | 134.22 | 1.72 | 1.72 | 134.22 | 0.14 |
| 13 | 28 | 134.22 | 1.7 | 1.56 | 134.36 | 134.22 | 1.72 | 1.68 | 134.26 | 0.1 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 14 | 28 | 134.22 | 1.7 | 1.575 | 134.345 | 134.22 | 1.72 | 1.65 | 134.29 | 0.055 |
| 15 | 28 | 134.22 | 1.7 | 1.545 | 134.375 | 134.22 | 1.72 | 1.65 | 134.29 | 0.085 |
| 16 | 28 | 134.22 | 1.7 | 1.53 | 134.39 | 134.22 | 1.72 | 1.64 | 134.3 | 0.09 |
| 17 | 28 | 134.22 | 1.7 | 1.495 | 134.425 | 134.22 | 1.72 | 1.645 | 134.295 | 0.13 |
| 18 | 28 | 134.22 | 1.7 | 1.53 | 134.39 | 134.22 | 1.72 | 1.62 | 134.32 | 0.07 |
| 19 | 28 | 134.22 | 1.7 | 1.53 | 134.39 | 134.22 | 1.72 | 1.65 | 134.29 | 0.1 |
| 20 | 28 | 134.22 | 1.7 | 1.485 | 134.435 | 134.22 | 1.72 | 1.65 | 134.29 | 0.145 |
| 21 | 28 | 134.22 | 1.7 | 1.5 | 134.42 | 134.22 | 1.72 | 1.68 | 134.26 | 0.16 |
| 22 | 28 | 134.22 | 1.7 | 1.5 | 134.42 | 134.22 | 1.72 | 1.64 | 134.3 | 0.12 |
| 23 | 28 | 134.22 | 1.7 | 1.515 | 134.405 | 134.22 | 1.72 | 1.64 | 134.3 | 0.105 |
| 24 | 28 | 134.22 | 1.7 | 1.51 | 134.41 | 134.22 | 1.72 | 1.64 | 134.3 | 0.11 |
| 25 | 28 | 134.22 | 1.7 | 1.475 | 134.445 | 134.22 | 1.72 | 1.635 | 134.305 | 0.14 |
| 26 | 28 | 134.22 | 1.7 | 1.435 | 134.485 | 134.22 | 1.72 | 1.59 | 134.35 | 0.135 |
| 27 | 28 | 134.22 | 1.7 | 1.38 | 134.54 | 134.22 | 1.72 | 1.55 | 134.39 | 0.15 |
| 28 | 28 | 134.22 | 1.7 | 1.41 | 134.51 | 134.22 | 1.72 | 1.49 | 134.45 | 0.06 |
| 0 | 29 | 134.22 | 1.7 | 1.615 | 134.305 | 134.22 | 1.72 | 1.7 | 134.24 | 0.065 |
| 1 | 29 | 134.22 | 1.7 | 1.595 | 134.325 | 134.22 | 1.72 | 1.72 | 134.22 | 0.105 |
| 2 | 29 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.72 | 134.22 | 0.11 |
| 3 | 29 | 134.22 | 1.7 | 1.595 | 134.325 | 134.22 | 1.72 | 1.7 | 134.24 | 0.085 |
| 4 | 29 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.73 | 134.21 | 0.12 |
| 5 | 29 | 134.22 | 1.7 | 1.58 | 134.34 | 134.22 | 1.72 | 1.72 | 134.22 | 0.12 |
| 6 | 29 | 134.22 | 1.7 | 1.59 | 134.33 | 134.22 | 1.72 | 1.71 | 134.23 | 0.1 |
| 7 | 29 | 134.22 | 1.7 | 1.63 | 134.29 | 134.22 | 1.72 | 1.71 | 134.23 | 0.06 |
| 8 | 29 | 134.22 | 1.7 | 1.64 | 134.28 | 134.22 | 1.72 | 1.72 | 134.22 | 0.06 |
| 9 | 29 | 134.22 | 1.7 | 1.66 | 134.26 | 134.22 | 1.72 | 1.7 | 134.24 | 0.02 |
| 10 | 29 | 134.22 | 1.7 | 1.58 | 134.34 | 134.22 | 1.72 | 1.68 | 134.26 | 0.08 |
| 11 | 29 | 134.22 | 1.7 | 1.575 | 134.345 | 134.22 | 1.72 | 1.68 | 134.26 | 0.085 |
| 12 | 29 | 134.22 | 1.7 | 1.565 | 134.355 | 134.22 | 1.72 | 1.695 | 134.245 | 0.11 |
| 13 | 29 | 134.22 | 1.7 | 1.57 | 134.35 | 134.22 | 1.72 | 1.66 | 134.28 | 0.07 |
| 14 | 29 | 134.22 | 1.7 | 1.55 | 134.37 | 134.22 | 1.72 | 1.64 | 134.3 | 0.07 |
| 15 | 29 | 134.22 | 1.7 | 1.53 | 134.39 | 134.22 | 1.72 | 1.63 | 134.31 | 0.08 |
| 16 | 29 | 134.22 | 1.7 | 1.5 | 134.42 | 134.22 | 1.72 | 1.63 | 134.31 | 0.11 |
| 17 | 29 | 134.22 | 1.7 | 1.495 | 134.425 | 134.22 | 1.72 | 1.625 | 134.315 | 0.11 |
| 18 | 29 | 134.22 | 1.7 | 1.5 | 134.42 | 134.22 | 1.72 | 1.63 | 134.31 | 0.11 |
| 19 | 29 | 134.22 | 1.7 | 1.52 | 134.4 | 134.22 | 1.72 | 1.615 | 134.325 | 0.075 |
| 20 | 29 | 134.22 | 1.7 | 1.48 | 134.44 | 134.22 | 1.72 | 1.605 | 134.335 | 0.105 |
| 21 | 29 | 134.22 | 1.7 | 1.495 | 134.425 | 134.22 | 1.72 | 1.59 | 134.35 | 0.075 |
| 22 | 29 | 134.22 | 1.7 | 1.495 | 134.425 | 134.22 | 1.72 | 1.6 | 134.34 | 0.085 |
| 23 | 29 | 134.22 | 1.7 | 1.495 | 134.425 | 134.22 | 1.72 | 1.615 | 134.325 | 0.1 |
| 24 | 29 | 134.22 | 1.7 | 1.485 | 134.435 | 134.22 | 1.72 | 1.6 | 134.34 | 0.095 |
| 25 | 29 | 134.22 | 1.7 | 1.42 | 134.5 | 134.22 | 1.72 | 1.6 | 134.34 | 0.16 |
| 26 | 29 | 134.22 | 1.7 | 1.42 | 134.5 | 134.22 | 1.72 | 1.57 | 134.37 | 0.13 |
| 27 | 29 | 134.22 | 1.7 | 1.36 | 134.56 | 134.22 | 1.72 | 1.55 | 134.39 | 0.17 |
| 28 | 29 | 134.22 | 1.7 | 1.4 | 134.52 | 134.22 | 1.72 | 1.515 | 134.425 | 0.095 |
| 0 | 30 | 134.22 | 1.79 | 1.695 | 134.315 | 134.22 | 1.72 | 1.685 | 134.255 | 0.06 |
| 1 | 30 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.7 | 134.24 | 0.11 |
| 2 | 30 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.695 | 134.245 | 0.095 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 3 | 30 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.72 | 1.71 | 134.23 | 0.08 |
| 4 | 30 | 134.22 | 1.79 | 1.685 | 134.325 | 134.22 | 1.72 | 1.73 | 134.21 | 0.115 |
| 5 | 30 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.72 | 1.72 | 134.22 | 0.09 |
| 6 | 30 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.72 | 1.73 | 134.21 | 0.1 |
| 7 | 30 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.74 | 134.2 | 0.13 |
| 8 | 30 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.72 | 1.73 | 134.21 | 0.11 |
| 9 | 30 | 134.22 | 1.79 | 1.685 | 134.325 | 134.22 | 1.72 | 1.72 | 134.22 | 0.105 |
| 10 | 30 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.7 | 134.24 | 0.12 |
| 11 | 30 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.72 | 1.72 | 134.22 | 0.125 |
| 12 | 30 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.72 | 1.73 | 134.21 | 0.135 |
| 13 | 30 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.67 | 134.27 | 0.09 |
| 14 | 30 | 134.22 | 1.79 | 1.6 | 134.41 | 134.22 | 1.72 | 1.63 | 134.31 | 0.1 |
| 15 | 30 | 134.22 | 1.79 | 1.575 | 134.435 | 134.22 | 1.72 | 1.66 | 134.28 | 0.155 |
| 16 | 30 | 134.22 | 1.79 | 1.595 | 134.415 | 134.22 | 1.72 | 1.66 | 134.28 | 0.135 |
| 17 | 30 | 134.22 | 1.79 | 1.615 | 134.395 | 134.22 | 1.72 | 1.635 | 134.305 | 0.09 |
| 18 | 30 | 134.22 | 1.79 | 1.585 | 134.425 | 134.22 | 1.72 | 1.63 | 134.31 | 0.115 |
| 19 | 30 | 134.22 | 1.79 | 1.61 | 134.4 | 134.22 | 1.72 | 1.63 | 134.31 | 0.09 |
| 20 | 30 | 134.22 | 1.79 | 1.58 | 134.43 | 134.22 | 1.72 | 1.625 | 134.315 | 0.115 |
| 21 | 30 | 134.22 | 1.79 | 1.6 | 134.41 | 134.22 | 1.72 | 1.62 | 134.32 | 0.09 |
| 22 | 30 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.6 | 134.34 | 0.12 |
| 23 | 30 | 134.22 | 1.79 | 1.595 | 134.415 | 134.22 | 1.72 | 1.555 | 134.385 | 0.03 |
| 24 | 30 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.56 | 134.38 | 0.08 |
| 25 | 30 | 134.22 | 1.79 | 1.545 | 134.465 | 134.22 | 1.72 | 1.56 | 134.38 | 0.085 |
| 26 | 30 | 134.22 | 1.79 | 1.515 | 134.495 | 134.22 | 1.72 | 1.575 | 134.365 | 0.13 |
| 27 | 30 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.54 | 134.4 | 0.13 |
| 28 | 30 | 134.22 | 1.79 | 1.45 | 134.56 | 134.22 | 1.72 | 1.48 | 134.46 | 0.1 |
| 0 | 31 | 134.22 | 1.79 | 1.705 | 134.305 | 134.22 | 1.72 | 1.71 | 134.23 | 0.075 |
| 1 | 31 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.7 | 134.24 | 0.09 |
| 2 | 31 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.7 | 134.24 | 0.11 |
| 3 | 31 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.72 | 1.72 | 134.22 | 0.09 |
| 4 | 31 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.73 | 134.21 | 0.13 |
| 5 | 31 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.72 | 1.73 | 134.21 | 0.125 |
| 6 | 31 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.72 | 1.72 | 134.22 | 0.115 |
| 7 | 31 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.73 | 134.21 | 0.12 |
| 8 | 31 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.75 | 134.19 | 0.165 |
| 9 | 31 | 134.22 | 1.79 | 1.71 | 134.3 | 134.22 | 1.72 | 1.74 | 134.2 | 0.1 |
| 10 | 31 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.72 | 1.715 | 134.225 | 0.11 |
| 11 | 31 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.71 | 134.23 | 0.125 |
| 12 | 31 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.71 | 134.23 | 0.125 |
| 13 | 31 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.68 | 134.26 | 0.1 |
| 14 | 31 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.655 | 134.285 | 0.135 |
| 15 | 31 | 134.22 | 1.79 | 1.62 | 134.39 | 134.22 | 1.72 | 1.62 | 134.32 | 0.07 |
| 16 | 31 | 134.22 | 1.79 | 1.6 | 134.41 | 134.22 | 1.72 | 1.62 | 134.32 | 0.09 |
| 17 | 31 | 134.22 | 1.79 | 1.61 | 134.4 | 134.22 | 1.72 | 1.63 | 134.31 | 0.09 |
| 18 | 31 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.61 | 134.33 | 0.09 |
| 19 | 31 | 134.22 | 1.79 | 1.575 | 134.435 | 134.22 | 1.72 | 1.6 | 134.34 | 0.095 |
| 20 | 31 | 134.22 | 1.79 | 1.54 | 134.47 | 134.22 | 1.72 | 1.6 | 134.34 | 0.13 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 21 | 31 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.61 | 134.33 | 0.09 |
| 22 | 31 | 134.22 | 1.79 | 1.615 | 134.395 | 134.22 | 1.72 | 1.58 | 134.36 | 0.035 |
| 23 | 31 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.56 | 134.38 | 0.06 |
| 24 | 31 | 134.22 | 1.79 | 1.58 | 134.43 | 134.22 | 1.72 | 1.55 | 134.39 | 0.04 |
| 25 | 31 | 134.22 | 1.79 | 1.51 | 134.5 | 134.22 | 1.72 | 1.555 | 134.385 | 0.115 |
| 26 | 31 | 134.22 | 1.79 | 1.495 | 134.515 | 134.22 | 1.72 | 1.57 | 134.37 | 0.145 |
| 27 | 31 | 134.22 | 1.79 | 1.45 | 134.56 | 134.22 | 1.72 | 1.5 | 134.44 | 0.12 |
| 28 | 31 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.475 | 134.465 | 0.065 |
| 0 | 32 | 134.22 | 1.79 | 1.75 | 134.26 | 134.22 | 1.72 | 1.69 | 134.25 | 0.01 |
| 1 | 32 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.705 | 134.235 | 0.095 |
| 2 | 32 | 134.22 | 1.79 | 1.695 | 134.315 | 134.22 | 1.72 | 1.71 | 134.23 | 0.085 |
| 3 | 32 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.715 | 134.225 | 0.13 |
| 4 | 32 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.72 | 1.705 | 134.235 | 0.1 |
| 5 | 32 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.72 | 1.69 | 134.25 | 0.06 |
| 6 | 32 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.72 | 1.68 | 134.26 | 0.075 |
| 7 | 32 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.685 | 134.255 | 0.085 |
| 8 | 32 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.72 | 134.22 | 0.12 |
| 9 | 32 | 134.22 | 1.79 | 1.685 | 134.325 | 134.22 | 1.72 | 1.7 | 134.24 | 0.085 |
| 10 | 32 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.72 | 1.68 | 134.26 | 0.05 |
| 11 | 32 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.72 | 1.695 | 134.245 | 0.075 |
| 12 | 32 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.685 | 134.255 | 0.1 |
| 13 | 32 | 134.22 | 1.79 | 1.63 | 134.38 | 134.22 | 1.72 | 1.64 | 134.3 | 0.08 |
| 14 | 32 | 134.22 | 1.79 | 1.62 | 134.39 | 134.22 | 1.72 | 1.64 | 134.3 | 0.09 |
| 15 | 32 | 134.22 | 1.79 | 1.61 | 134.4 | 134.22 | 1.72 | 1.64 | 134.3 | 0.1 |
| 16 | 32 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.655 | 134.285 | 0.075 |
| 17 | 32 | 134.22 | 1.79 | 1.615 | 134.395 | 134.22 | 1.72 | 1.665 | 134.275 | 0.12 |
| 18 | 32 | 134.22 | 1.79 | 1.615 | 134.395 | 134.22 | 1.72 | 1.625 | 134.315 | 0.08 |
| 19 | 32 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.63 | 134.31 | 0.11 |
| 20 | 32 | 134.22 | 1.79 | 1.595 | 134.415 | 134.22 | 1.72 | 1.66 | 134.28 | 0.135 |
| 21 | 32 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.605 | 134.335 | 0.085 |
| 22 | 32 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.62 | 134.32 | 0.14 |
| 23 | 32 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.61 | 134.33 | 0.09 |
| 24 | 32 | 134.22 | 1.79 | 1.52 | 134.49 | 134.22 | 1.72 | 1.59 | 134.35 | 0.14 |
| 25 | 32 | 134.22 | 1.79 | 1.49 | 134.52 | 134.22 | 1.72 | 1.57 | 134.37 | 0.15 |
| 26 | 32 | 134.22 | 1.79 | 1.45 | 134.56 | 134.22 | 1.72 | 1.56 | 134.38 | 0.18 |
| 27 | 32 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.52 | 134.42 | 0.11 |
| 28 | 32 | 134.22 | 1.79 | 1.52 | 134.49 | 134.22 | 1.72 | 1.47 | 134.47 | 0.02 |
| 0 | 33 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.67 | 134.27 | 0.06 |
| 1 | 33 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.72 | 1.68 | 134.26 | 0.06 |
| 2 | 33 | 134.22 | 1.79 | 1.705 | 134.305 | 134.22 | 1.72 | 1.69 | 134.25 | 0.055 |
| 3 | 33 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.69 | 134.25 | 0.1 |
| 4 | 33 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.69 | 134.25 | 0.08 |
| 5 | 33 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.695 | 134.245 | 0.11 |
| 6 | 33 | 134.22 | 1.79 | 1.635 | 134.375 | 134.22 | 1.72 | 1.72 | 134.22 | 0.155 |
| 7 | 33 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.74 | 134.2 | 0.13 |
| 8 | 33 | 134.22 | 1.79 | 1.685 | 134.325 | 134.22 | 1.72 | 1.72 | 134.22 | 0.105 |
| 9 | 33 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.72 | 1.72 | 134.22 | 0.125 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 10 | 33 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.725 | 134.215 | 0.125 |
| 11 | 33 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.72 | 1.68 | 134.26 | 0.085 |
| 12 | 33 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.68 | 134.26 | 0.1 |
| 13 | 33 | 134.22 | 1.79 | 1.635 | 134.375 | 134.22 | 1.72 | 1.71 | 134.23 | 0.145 |
| 14 | 33 | 134.22 | 1.79 | 1.635 | 134.375 | 134.22 | 1.72 | 1.66 | 134.28 | 0.095 |
| 15 | 33 | 134.22 | 1.79 | 1.6 | 134.41 | 134.22 | 1.72 | 1.65 | 134.29 | 0.12 |
| 16 | 33 | 134.22 | 1.79 | 1.63 | 134.38 | 134.22 | 1.72 | 1.64 | 134.3 | 0.08 |
| 17 | 33 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.63 | 134.31 | 0.06 |
| 18 | 33 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.63 | 134.31 | 0.05 |
| 19 | 33 | 134.22 | 1.79 | 1.565 | 134.445 | 134.22 | 1.72 | 1.615 | 134.325 | 0.12 |
| 20 | 33 | 134.22 | 1.79 | 1.575 | 134.435 | 134.22 | 1.72 | 1.615 | 134.325 | 0.11 |
| 21 | 33 | 134.22 | 1.79 | 1.58 | 134.43 | 134.22 | 1.72 | 1.615 | 134.325 | 0.105 |
| 22 | 33 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.61 | 134.33 | 0.11 |
| 23 | 33 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.59 | 134.35 | 0.11 |
| 24 | 33 | 134.22 | 1.79 | 1.515 | 134.495 | 134.22 | 1.72 | 1.57 | 134.37 | 0.125 |
| 25 | 33 | 134.22 | 1.79 | 1.5 | 134.51 | 134.22 | 1.72 | 1.6 | 134.34 | 0.17 |
| 26 | 33 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.57 | 134.37 | 0.16 |
| 27 | 33 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.52 | 134.42 | 0.11 |
| 28 | 33 | 134.22 | 1.79 | 1.495 | 134.515 | 134.22 | 1.72 | 1.485 | 134.455 | 0.06 |
| 0 | 34 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.7 | 134.24 | 0.09 |
| 1 | 34 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.7 | 134.24 | 0.12 |
| 2 | 34 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.69 | 134.25 | 0.09 |
| 3 | 34 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.69 | 134.25 | 0.09 |
| 4 | 34 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.72 | 1.695 | 134.245 | 0.09 |
| 5 | 34 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.72 | 134.22 | 0.135 |
| 6 | 34 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.72 | 1.725 | 134.215 | 0.13 |
| 7 | 34 | 134.22 | 1.79 | 1.705 | 134.305 | 134.22 | 1.72 | 1.73 | 134.21 | 0.095 |
| 8 | 34 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.755 | 134.185 | 0.155 |
| 9 | 34 | 134.22 | 1.79 | 1.695 | 134.315 | 134.22 | 1.72 | 1.725 | 134.215 | 0.1 |
| 10 | 34 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.72 | 134.22 | 0.15 |
| 11 | 34 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.715 | 134.225 | 0.105 |
| 12 | 34 | 134.22 | 1.79 | 1.635 | 134.375 | 134.22 | 1.72 | 1.71 | 134.23 | 0.145 |
| 13 | 34 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.67 | 134.27 | 0.08 |
| 14 | 34 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.64 | 134.3 | 0.05 |
| 15 | 34 | 134.22 | 1.79 | 1.625 | 134.385 | 134.22 | 1.72 | 1.63 | 134.31 | 0.075 |
| 16 | 34 | 134.22 | 1.79 | 1.63 | 134.38 | 134.22 | 1.72 | 1.64 | 134.3 | 0.08 |
| 17 | 34 | 134.22 | 1.79 | 1.595 | 134.415 | 134.22 | 1.72 | 1.61 | 134.33 | 0.085 |
| 18 | 34 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.59 | 134.35 | 0.09 |
| 19 | 34 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.57 | 134.37 | 0.07 |
| 20 | 34 | 134.22 | 1.79 | 1.56 | 134.45 | 134.22 | 1.72 | 1.595 | 134.345 | 0.105 |
| 21 | 34 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.6 | 134.34 | 0.1 |
| 22 | 34 | 134.22 | 1.79 | 1.58 | 134.43 | 134.22 | 1.72 | 1.63 | 134.31 | 0.12 |
| 23 | 34 | 134.22 | 1.79 | 1.54 | 134.47 | 134.22 | 1.72 | 1.6 | 134.34 | 0.13 |
| 24 | 34 | 134.22 | 1.79 | 1.52 | 134.49 | 134.22 | 1.72 | 1.58 | 134.36 | 0.13 |
| 25 | 34 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.57 | 134.37 | 0.16 |
| 26 | 34 | 134.22 | 1.79 | 1.495 | 134.515 | 134.22 | 1.72 | 1.57 | 134.37 | 0.145 |
| 27 | 34 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.54 | 134.4 | 0.13 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 28 | 34 | 134.22 | 1.79 | 1.515 | 134.495 | 134.22 | 1.72 | 1.51 | 134.43 | 0.065 |
| 0 | 35 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.67 | 134.27 | 0.08 |
| 1 | 35 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.69 | 134.25 | 0.105 |
| 2 | 35 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.69 | 134.25 | 0.12 |
| 3 | 35 | 134.22 | 1.79 | 1.62 | 134.39 | 134.22 | 1.72 | 1.7 | 134.24 | 0.15 |
| 4 | 35 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.69 | 134.25 | 0.12 |
| 5 | 35 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.69 | 134.25 | 0.12 |
| 6 | 35 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.71 | 134.23 | 0.14 |
| 7 | 35 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.72 | 1.74 | 134.2 | 0.135 |
| 8 | 35 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.76 | 134.18 | 0.16 |
| 9 | 35 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.73 | 134.21 | 0.12 |
| 10 | 35 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.7 | 134.24 | 0.13 |
| 11 | 35 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.72 | 1.68 | 134.26 | 0.06 |
| 12 | 35 | 134.22 | 1.79 | 1.615 | 134.395 | 134.22 | 1.72 | 1.67 | 134.27 | 0.125 |
| 13 | 35 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.65 | 134.29 | 0.065 |
| 14 | 35 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.63 | 134.31 | 0.11 |
| 15 | 35 | 134.22 | 1.79 | 1.585 | 134.425 | 134.22 | 1.72 | 1.605 | 134.335 | 0.09 |
| 16 | 35 | 134.22 | 1.79 | 1.585 | 134.425 | 134.22 | 1.72 | 1.62 | 134.32 | 0.105 |
| 17 | 35 | 134.22 | 1.79 | 1.58 | 134.43 | 134.22 | 1.72 | 1.6 | 134.34 | 0.09 |
| 18 | 35 | 134.22 | 1.79 | 1.565 | 134.445 | 134.22 | 1.72 | 1.6 | 134.34 | 0.105 |
| 19 | 35 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.59 | 134.35 | 0.09 |
| 20 | 35 | 134.22 | 1.79 | 1.54 | 134.47 | 134.22 | 1.72 | 1.6 | 134.34 | 0.13 |
| 21 | 35 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.6 | 134.34 | 0.12 |
| 22 | 35 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.61 | 134.33 | 0.11 |
| 23 | 35 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.65 | 134.29 | 0.13 |
| 24 | 35 | 134.22 | 1.79 | 1.505 | 134.505 | 134.22 | 1.72 | 1.62 | 134.32 | 0.185 |
| 25 | 35 | 134.22 | 1.79 | 1.49 | 134.52 | 134.22 | 1.72 | 1.56 | 134.38 | 0.14 |
| 26 | 35 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.54 | 134.4 | 0.13 |
| 27 | 35 | 134.22 | 1.79 | 1.52 | 134.49 | 134.22 | 1.72 | 1.56 | 134.38 | 0.11 |
| 28 | 35 | 134.22 | 1.79 | 1.49 | 134.52 | 134.22 | 1.72 | 1.52 | 134.42 | 0.1 |
| 0 | 36 | 134.22 | 1.79 | 1.61 | 134.4 | 134.22 | 1.72 | 1.68 | 134.26 | 0.14 |
| 1 | 36 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.675 | 134.265 | 0.105 |
| 2 | 36 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.685 | 134.255 | 0.1 |
| 3 | 36 | 134.22 | 1.79 | 1.6 | 134.41 | 134.22 | 1.72 | 1.685 | 134.255 | 0.155 |
| 4 | 36 | 134.22 | 1.79 | 1.62 | 134.39 | 134.22 | 1.72 | 1.68 | 134.26 | 0.13 |
| 5 | 36 | 134.22 | 1.79 | 1.635 | 134.375 | 134.22 | 1.72 | 1.705 | 134.235 | 0.14 |
| 6 | 36 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.72 | 1.72 | 134.22 | 0.125 |
| 7 | 36 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.72 | 1.72 | 134.22 | 0.115 |
| 8 | 36 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.725 | 134.215 | 0.14 |
| 9 | 36 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.73 | 134.21 | 0.14 |
| 10 | 36 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.695 | 134.245 | 0.085 |
| 11 | 36 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.68 | 134.26 | 0.08 |
| 12 | 36 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.67 | 134.27 | 0.15 |
| 13 | 36 | 134.22 | 1.79 | 1.62 | 134.39 | 134.22 | 1.72 | 1.65 | 134.29 | 0.1 |
| 14 | 36 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.63 | 134.31 | 0.11 |
| 15 | 36 | 134.22 | 1.79 | 1.56 | 134.45 | 134.22 | 1.72 | 1.595 | 134.345 | 0.105 |
| 16 | 36 | 134.22 | 1.79 | 1.575 | 134.435 | 134.22 | 1.72 | 1.63 | 134.31 | 0.125 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 17 | 36 | 134.22 | 1.79 | 1.535 | 134.475 | 134.22 | 1.72 | 1.635 | 134.305 | 0.17 |
| 18 | 36 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.605 | 134.335 | 0.125 |
| 19 | 36 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.605 | 134.335 | 0.125 |
| 20 | 36 | 134.22 | 1.79 | 1.505 | 134.505 | 134.22 | 1.72 | 1.58 | 134.36 | 0.145 |
| 21 | 36 | 134.22 | 1.79 | 1.53 | 134.48 | 134.22 | 1.72 | 1.595 | 134.345 | 0.135 |
| 22 | 36 | 134.22 | 1.79 | 1.495 | 134.515 | 134.22 | 1.72 | 1.58 | 134.36 | 0.155 |
| 23 | 36 | 134.22 | 1.79 | 1.53 | 134.48 | 134.22 | 1.72 | 1.585 | 134.355 | 0.125 |
| 24 | 36 | 134.22 | 1.79 | 1.495 | 134.515 | 134.22 | 1.72 | 1.555 | 134.385 | 0.13 |
| 25 | 36 | 134.22 | 1.79 | 1.53 | 134.48 | 134.22 | 1.72 | 1.515 | 134.425 | 0.055 |
| 26 | 36 | 134.22 | 1.79 | 1.47 | 134.54 | 134.22 | 1.72 | 1.54 | 134.4 | 0.14 |
| 27 | 36 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.515 | 134.425 | 0.105 |
| 28 | 36 | 134.22 | 1.79 | 1.46 | 134.55 | 134.22 | 1.72 | 1.47 | 134.47 | 0.08 |
| 0 | 37 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.675 | 134.265 | 0.105 |
| 1 | 37 | 134.22 | 1.79 | 1.63 | 134.38 | 134.22 | 1.72 | 1.71 | 134.23 | 0.15 |
| 2 | 37 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.69 | 134.25 | 0.1 |
| 3 | 37 | 134.22 | 1.79 | 1.635 | 134.375 | 134.22 | 1.72 | 1.685 | 134.255 | 0.12 |
| 4 | 37 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.69 | 134.25 | 0.12 |
| 5 | 37 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.72 | 1.705 | 134.235 | 0.11 |
| 6 | 37 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.72 | 134.22 | 0.14 |
| 7 | 37 | 134.22 | 1.79 | 1.695 | 134.315 | 134.22 | 1.72 | 1.73 | 134.21 | 0.105 |
| 8 | 37 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.73 | 134.21 | 0.14 |
| 9 | 37 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.74 | 134.2 | 0.14 |
| 10 | 37 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.715 | 134.225 | 0.13 |
| 11 | 37 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.69 | 134.25 | 0.08 |
| 12 | 37 | 134.22 | 1.79 | 1.705 | 134.305 | 134.22 | 1.72 | 1.675 | 134.265 | 0.04 |
| 13 | 37 | 134.22 | 1.79 | 1.63 | 134.38 | 134.22 | 1.72 | 1.645 | 134.295 | 0.085 |
| 14 | 37 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.62 | 134.32 | 0.05 |
| 15 | 37 | 134.22 | 1.79 | 1.555 | 134.455 | 134.22 | 1.72 | 1.625 | 134.315 | 0.14 |
| 16 | 37 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.655 | 134.285 | 0.155 |
| 17 | 37 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.625 | 134.315 | 0.145 |
| 18 | 37 | 134.22 | 1.79 | 1.53 | 134.48 | 134.22 | 1.72 | 1.575 | 134.365 | 0.115 |
| 19 | 37 | 134.22 | 1.79 | 1.535 | 134.475 | 134.22 | 1.72 | 1.59 | 134.35 | 0.125 |
| 20 | 37 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.59 | 134.35 | 0.11 |
| 21 | 37 | 134.22 | 1.79 | 1.52 | 134.49 | 134.22 | 1.72 | 1.58 | 134.36 | 0.13 |
| 22 | 37 | 134.22 | 1.79 | 1.61 | 134.4 | 134.22 | 1.72 | 1.58 | 134.36 | 0.04 |
| 23 | 37 | 134.22 | 1.79 | 1.53 | 134.48 | 134.22 | 1.72 | 1.585 | 134.355 | 0.125 |
| 24 | 37 | 134.22 | 1.79 | 1.515 | 134.495 | 134.22 | 1.72 | 1.53 | 134.41 | 0.085 |
| 25 | 37 | 134.22 | 1.79 | 1.575 | 134.435 | 134.22 | 1.72 | 1.56 | 134.38 | 0.055 |
| 26 | 37 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.51 | 134.43 | 0.1 |
| 27 | 37 | 134.22 | 1.79 | 1.48 | 134.53 | 134.22 | 1.72 | 1.51 | 134.43 | 0.1 |
| 28 | 37 | 134.22 | 1.79 | 1.43 | 134.58 | 134.22 | 1.72 | 1.49 | 134.45 | 0.13 |
| 0 | 38 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.72 | 1.68 | 134.26 | 0.085 |
| 1 | 38 | 134.22 | 1.79 | 1.615 | 134.395 | 134.22 | 1.72 | 1.72 | 134.22 | 0.175 |
| 2 | 38 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.705 | 134.235 | 0.105 |
| 3 | 38 | 134.22 | 1.79 | 1.645 | 134.365 | 134.22 | 1.72 | 1.72 | 134.22 | 0.145 |
| 4 | 38 | 134.22 | 1.79 | 1.635 | 134.375 | 134.22 | 1.72 | 1.735 | 134.205 | 0.17 |
| 5 | 38 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.72 | 1.72 | 134.22 | 0.1 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 6 | 38 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.72 | 1.73 | 134.21 | 0.11 |
| 7 | 38 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.72 | 134.22 | 0.11 |
| 8 | 38 | 134.22 | 1.79 | 1.645 | 134.365 | 134.22 | 1.72 | 1.735 | 134.205 | 0.16 |
| 9 | 38 | 134.22 | 1.79 | 1.645 | 134.365 | 134.22 | 1.72 | 1.705 | 134.235 | 0.13 |
| 10 | 38 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.685 | 134.255 | 0.1 |
| 11 | 38 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.66 | 134.28 | 0.09 |
| 12 | 38 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.64 | 134.3 | 0.07 |
| 13 | 38 | 134.22 | 1.79 | 1.635 | 134.375 | 134.22 | 1.72 | 1.635 | 134.305 | 0.07 |
| 14 | 38 | 134.22 | 1.79 | 1.6 | 134.41 | 134.22 | 1.72 | 1.61 | 134.33 | 0.08 |
| 15 | 38 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.595 | 134.345 | 0.095 |
| 16 | 38 | 134.22 | 1.79 | 1.56 | 134.45 | 134.22 | 1.72 | 1.625 | 134.315 | 0.135 |
| 17 | 38 | 134.22 | 1.79 | 1.54 | 134.47 | 134.22 | 1.72 | 1.61 | 134.33 | 0.14 |
| 18 | 38 | 134.22 | 1.79 | 1.56 | 134.45 | 134.22 | 1.72 | 1.625 | 134.315 | 0.135 |
| 19 | 38 | 134.22 | 1.79 | 1.575 | 134.435 | 134.22 | 1.72 | 1.605 | 134.335 | 0.1 |
| 20 | 38 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.585 | 134.355 | 0.105 |
| 21 | 38 | 134.22 | 1.79 | 1.525 | 134.485 | 134.22 | 1.72 | 1.58 | 134.36 | 0.125 |
| 22 | 38 | 134.22 | 1.79 | 1.535 | 134.475 | 134.22 | 1.72 | 1.57 | 134.37 | 0.105 |
| 23 | 38 | 134.22 | 1.79 | 1.535 | 134.475 | 134.22 | 1.72 | 1.54 | 134.4 | 0.075 |
| 24 | 38 | 134.22 | 1.79 | 1.5 | 134.51 | 134.22 | 1.72 | 1.51 | 134.43 | 0.08 |
| 25 | 38 | 134.22 | 1.79 | 1.52 | 134.49 | 134.22 | 1.72 | 1.52 | 134.42 | 0.07 |
| 26 | 38 | 134.22 | 1.79 | 1.475 | 134.535 | 134.22 | 1.72 | 1.495 | 134.445 | 0.09 |
| 27 | 38 | 134.22 | 1.79 | 1.42 | 134.59 | 134.22 | 1.72 | 1.495 | 134.445 | 0.145 |
| 28 | 38 | 134.22 | 1.79 | 1.47 | 134.54 | 134.22 | 1.72 | 1.45 | 134.49 | 0.05 |
| 0 | 39 | 134.22 | 1.79 | 1.625 | 134.385 | 134.22 | 1.72 | 1.675 | 134.265 | 0.12 |
| 1 | 39 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.72 | 1.705 | 134.235 | 0.135 |
| 2 | 39 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.72 | 134.22 | 0.12 |
| 3 | 39 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.72 | 1.705 | 134.235 | 0.1 |
| 4 | 39 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.72 | 134.22 | 0.12 |
| 5 | 39 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.71 | 134.23 | 0.11 |
| 6 | 39 | 134.22 | 1.79 | 1.695 | 134.315 | 134.22 | 1.72 | 1.72 | 134.22 | 0.095 |
| 7 | 39 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.715 | 134.225 | 0.115 |
| 8 | 39 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.715 | 134.225 | 0.13 |
| 9 | 39 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.68 | 134.26 | 0.1 |
| 10 | 39 | 134.22 | 1.79 | 1.685 | 134.325 | 134.22 | 1.72 | 1.67 | 134.27 | 0.055 |
| 11 | 39 | 134.22 | 1.79 | 1.645 | 134.365 | 134.22 | 1.72 | 1.67 | 134.27 | 0.095 |
| 12 | 39 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.65 | 134.29 | 0.07 |
| 13 | 39 | 134.22 | 1.79 | 1.62 | 134.39 | 134.22 | 1.72 | 1.635 | 134.305 | 0.085 |
| 14 | 39 | 134.22 | 1.79 | 1.605 | 134.405 | 134.22 | 1.72 | 1.645 | 134.295 | 0.11 |
| 15 | 39 | 134.22 | 1.79 | 1.585 | 134.425 | 134.22 | 1.72 | 1.62 | 134.32 | 0.105 |
| 16 | 39 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.63 | 134.31 | 0.11 |
| 17 | 39 | 134.22 | 1.79 | 1.555 | 134.455 | 134.22 | 1.72 | 1.615 | 134.325 | 0.13 |
| 18 | 39 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.615 | 134.325 | 0.115 |
| 19 | 39 | 134.22 | 1.79 | 1.575 | 134.435 | 134.22 | 1.72 | 1.615 | 134.325 | 0.11 |
| 20 | 39 | 134.22 | 1.79 | 1.54 | 134.47 | 134.22 | 1.72 | 1.58 | 134.36 | 0.11 |
| 21 | 39 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.57 | 134.37 | 0.07 |
| 22 | 39 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.72 | 1.575 | 134.365 | 0.075 |
| 23 | 39 | 134.22 | 1.79 | 1.53 | 134.48 | 134.22 | 1.72 | 1.57 | 134.37 | 0.11 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 24 | 39 | 134.22 | 1.79 | 1.555 | 134.455 | 134.22 | 1.72 | 1.545 | 134.395 | 0.06 |
| 25 | 39 | 134.22 | 1.79 | 1.575 | 134.435 | 134.22 | 1.72 | 1.53 | 134.41 | 0.025 |
| 26 | 39 | 134.22 | 1.79 | 1.46 | 134.55 | 134.22 | 1.72 | 1.515 | 134.425 | 0.125 |
| 27 | 39 | 134.22 | 1.79 | 1.455 | 134.555 | 134.22 | 1.72 | 1.48 | 134.46 | 0.095 |
| 28 | 39 | 134.22 | 1.79 | 1.455 | 134.555 | 134.22 | 1.72 | 1.455 | 134.485 | 0.07 |
| 0 | 40 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.685 | 134.255 | 0.085 |
| 1 | 40 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.7 | 134.24 | 0.11 |
| 2 | 40 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.7 | 134.24 | 0.09 |
| 3 | 40 | 134.22 | 1.79 | 1.715 | 134.295 | 134.22 | 1.72 | 1.72 | 134.22 | 0.075 |
| 4 | 40 | 134.22 | 1.79 | 1.71 | 134.3 | 134.22 | 1.72 | 1.73 | 134.21 | 0.09 |
| 5 | 40 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.72 | 1.73 | 134.21 | 0.1 |
| 6 | 40 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.72 | 1.69 | 134.25 | 0.09 |
| 7 | 40 | 134.22 | 1.79 | 1.685 | 134.325 | 134.22 | 1.72 | 1.7 | 134.24 | 0.085 |
| 8 | 40 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.7 | 134.24 | 0.115 |
| 9 | 40 | 134.22 | 1.79 | 1.635 | 134.375 | 134.22 | 1.72 | 1.71 | 134.23 | 0.145 |
| 10 | 40 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.72 | 1.705 | 134.235 | 0.11 |
| 11 | 40 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.72 | 1.69 | 134.25 | 0.105 |
| 12 | 40 | 134.22 | 1.79 | 1.63 | 134.38 | 134.22 | 1.72 | 1.66 | 134.28 | 0.1 |
| 13 | 40 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.72 | 1.63 | 134.31 | 0.02 |
| 14 | 40 | 134.22 | 1.79 | 1.62 | 134.39 | 134.22 | 1.72 | 1.64 | 134.3 | 0.09 |
| 15 | 40 | 134.22 | 1.79 | 1.6 | 134.41 | 134.22 | 1.72 | 1.625 | 134.315 | 0.095 |
| 16 | 40 | 134.22 | 1.79 | 1.61 | 134.4 | 134.22 | 1.72 | 1.62 | 134.32 | 0.08 |
| 17 | 40 | 134.22 | 1.79 | 1.585 | 134.425 | 134.22 | 1.72 | 1.62 | 134.32 | 0.105 |
| 18 | 40 | 134.22 | 1.79 | 1.575 | 134.435 | 134.22 | 1.72 | 1.61 | 134.33 | 0.105 |
| 19 | 40 | 134.22 | 1.79 | 1.565 | 134.445 | 134.22 | 1.72 | 1.63 | 134.31 | 0.135 |
| 20 | 40 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.62 | 134.32 | 0.14 |
| 21 | 40 | 134.22 | 1.79 | 1.555 | 134.455 | 134.22 | 1.72 | 1.59 | 134.35 | 0.105 |
| 22 | 40 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.575 | 134.365 | 0.055 |
| 23 | 40 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.59 | 134.35 | 0.11 |
| 24 | 40 | 134.22 | 1.79 | 1.555 | 134.455 | 134.22 | 1.72 | 1.535 | 134.405 | 0.05 |
| 25 | 40 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.53 | 134.41 | 0.05 |
| 26 | 40 | 134.22 | 1.79 | 1.49 | 134.52 | 134.22 | 1.72 | 1.545 | 134.395 | 0.125 |
| 27 | 40 | 134.22 | 1.79 | 1.485 | 134.525 | 134.22 | 1.72 | 1.54 | 134.4 | 0.125 |
| 28 | 40 | 134.22 | 1.79 | 1.455 | 134.555 | 134.22 | 1.72 | 1.51 | 134.43 | 0.125 |
| 0 | 41 | 134.22 | 1.79 | 1.72 | 134.29 | 134.22 | 1.72 | 1.695 | 134.245 | 0.045 |
| 1 | 41 | 134.22 | 1.79 | 1.695 | 134.315 | 134.22 | 1.72 | 1.7 | 134.24 | 0.075 |
| 2 | 41 | 134.22 | 1.79 | 1.715 | 134.295 | 134.22 | 1.72 | 1.72 | 134.22 | 0.075 |
| 3 | 41 | 134.22 | 1.79 | 1.735 | 134.275 | 134.22 | 1.72 | 1.73 | 134.21 | 0.065 |
| 4 | 41 | 134.22 | 1.79 | 1.725 | 134.285 | 134.22 | 1.72 | 1.735 | 134.205 | 0.08 |
| 5 | 41 | 134.22 | 1.79 | 1.715 | 134.295 | 134.22 | 1.72 | 1.725 | 134.215 | 0.08 |
| 6 | 41 | 134.22 | 1.79 | 1.715 | 134.295 | 134.22 | 1.72 | 1.7 | 134.24 | 0.055 |
| 7 | 41 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.72 | 1.705 | 134.235 | 0.075 |
| 8 | 41 | 134.22 | 1.79 | 1.71 | 134.3 | 134.22 | 1.72 | 1.675 | 134.265 | 0.035 |
| 9 | 41 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.72 | 1.68 | 134.26 | 0.09 |
| 10 | 41 | 134.22 | 1.79 | 1.715 | 134.295 | 134.22 | 1.72 | 1.69 | 134.25 | 0.045 |
| 11 | 41 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.72 | 1.71 | 134.23 | 0.09 |
| 12 | 41 | 134.22 | 1.79 | 1.65 | 134.36 | 134.22 | 1.72 | 1.69 | 134.25 | 0.11 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 13 | 41 | 134.22 | 1.79 | 1.645 | 134.365 | 134.22 | 1.72 | 1.655 | 134.285 | 0.08 |
| 14 | 41 | 134.22 | 1.79 | 1.62 | 134.39 | 134.22 | 1.72 | 1.685 | 134.255 | 0.135 |
| 15 | 41 | 134.22 | 1.79 | 1.63 | 134.38 | 134.22 | 1.72 | 1.66 | 134.28 | 0.1 |
| 16 | 41 | 134.22 | 1.79 | 1.605 | 134.405 | 134.22 | 1.72 | 1.64 | 134.3 | 0.105 |
| 17 | 41 | 134.22 | 1.79 | 1.6 | 134.41 | 134.22 | 1.72 | 1.63 | 134.31 | 0.1 |
| 18 | 41 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.65 | 134.29 | 0.13 |
| 19 | 41 | 134.22 | 1.79 | 1.55 | 134.46 | 134.22 | 1.72 | 1.625 | 134.315 | 0.145 |
| 20 | 41 | 134.22 | 1.79 | 1.58 | 134.43 | 134.22 | 1.72 | 1.61 | 134.33 | 0.1 |
| 21 | 41 | 134.22 | 1.79 | 1.56 | 134.45 | 134.22 | 1.72 | 1.585 | 134.355 | 0.095 |
| 22 | 41 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.72 | 1.585 | 134.355 | 0.065 |
| 23 | 41 | 134.22 | 1.79 | 1.545 | 134.465 | 134.22 | 1.72 | 1.565 | 134.375 | 0.09 |
| 24 | 41 | 134.22 | 1.79 | 1.525 | 134.485 | 134.22 | 1.72 | 1.54 | 134.4 | 0.085 |
| 25 | 41 | 134.22 | 1.79 | 1.54 | 134.47 | 134.22 | 1.72 | 1.58 | 134.36 | 0.11 |
| 26 | 41 | 134.22 | 1.79 | 1.5 | 134.51 | 134.22 | 1.72 | 1.57 | 134.37 | 0.14 |
| 27 | 41 | 134.22 | 1.79 | 1.5 | 134.51 | 134.22 | 1.72 | 1.555 | 134.385 | 0.125 |
| 28 | 41 | 134.22 | 1.79 | 1.455 | 134.555 | 134.22 | 1.72 | 1.515 | 134.425 | 0.13 |
| 0 | 42 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.775 | 1.755 | 134.24 | 0.1 |
| 1 | 42 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.775 | 1.77 | 134.225 | 0.105 |
| 2 | 42 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.775 | 1.775 | 134.22 | 0.12 |
| 3 | 42 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.775 | 1.79 | 134.205 | 0.105 |
| 4 | 42 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.775 | 1.795 | 134.2 | 0.13 |
| 5 | 42 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.775 | 1.8 | 134.195 | 0.115 |
| 6 | 42 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.775 | 1.775 | 134.22 | 0.09 |
| 7 | 42 | 134.22 | 1.79 | 1.7 | 134.31 | 134.22 | 1.775 | 1.77 | 134.225 | 0.085 |
| 8 | 42 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.775 | 1.76 | 134.235 | 0.085 |
| 9 | 42 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.775 | 1.76 | 134.235 | 0.085 |
| 10 | 42 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.775 | 1.77 | 134.225 | 0.095 |
| 11 | 42 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.775 | 1.77 | 134.225 | 0.105 |
| 12 | 42 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.775 | 1.75 | 134.245 | 0.11 |
| 13 | 42 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.775 | 1.765 | 134.23 | 0.115 |
| 14 | 42 | 134.22 | 1.79 | 1.66 | 134.35 | 134.22 | 1.775 | 1.775 | 134.22 | 0.13 |
| 15 | 42 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.775 | 1.785 | 134.21 | 0.13 |
| 16 | 42 | 134.22 | 1.79 | 1.63 | 134.38 | 134.22 | 1.775 | 1.795 | 134.2 | 0.18 |
| 17 | 42 | 134.22 | 1.79 | 1.605 | 134.405 | 134.22 | 1.775 | 1.8 | 134.195 | 0.21 |
| 18 | 42 | 134.22 | 1.79 | 1.63 | 134.38 | 134.22 | 1.775 | 1.77 | 134.225 | 0.155 |
| 19 | 42 | 134.22 | 1.79 | 1.6 | 134.41 | 134.22 | 1.775 | 1.735 | 134.26 | 0.15 |
| 20 | 42 | 134.22 | 1.79 | 1.595 | 134.415 | 134.22 | 1.775 | 1.77 | 134.225 | 0.19 |
| 21 | 42 | 134.22 | 1.79 | 1.58 | 134.43 | 134.22 | 1.775 | 1.725 | 134.27 | 0.16 |
| 22 | 42 | 134.22 | 1.79 | 1.59 | 134.42 | 134.22 | 1.775 | 1.72 | 134.275 | 0.145 |
| 23 | 42 | 134.22 | 1.79 | 1.57 | 134.44 | 134.22 | 1.775 | 1.72 | 134.275 | 0.165 |
| 24 | 42 | 134.22 | 1.79 | 1.545 | 134.465 | 134.22 | 1.775 | 1.72 | 134.275 | 0.19 |
| 25 | 42 | 134.22 | 1.79 | 1.53 | 134.48 | 134.22 | 1.775 | 1.72 | 134.275 | 0.205 |
| 26 | 42 | 134.22 | 1.79 | 1.525 | 134.485 | 134.22 | 1.775 | 1.72 | 134.275 | 0.21 |
| 27 | 42 | 134.22 | 1.79 | 1.52 | 134.49 | 134.22 | 1.775 | 1.705 | 134.29 | 0.2 |
| 28 | 42 | 134.22 | 1.79 | 1.52 | 134.49 | 134.22 | 1.775 | 1.645 | 134.35 | 0.14 |
| 0 | 43 | 134.22 | 1.79 | 1.69 | 134.32 | 134.22 | 1.775 | 1.735 | 134.26 | 0.06 |
| 1 | 43 | 134.22 | 1.79 | 1.685 | 134.325 | 134.22 | 1.775 | 1.745 | 134.25 | 0.075 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 2 | 43 | 134.22 | 1.79 | 1.685 | 134.325 | 134.22 | 1.775 | 1.735 | 134.26 | 0.065 |
| 3 | 43 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.775 | 1.77 | 134.225 | 0.11 |
| 4 | 43 | 134.22 | 1.79 | 1.68 | 134.33 | 134.22 | 1.775 | 1.78 | 134.215 | 0.115 |
| 5 | 43 | 134.22 | 1.79 | 1.67 | 134.34 | 134.22 | 1.775 | 1.75 | 134.245 | 0.095 |
| 6 | 43 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.775 | 1.73 | 134.265 | 0.07 |
| 7 | 43 | 134.22 | 1.79 | 1.675 | 134.335 | 134.22 | 1.775 | 1.725 | 134.27 | 0.065 |
| 8 | 43 | 134.22 | 1.79 | 1.655 | 134.355 | 134.22 | 1.775 | 1.72 | 134.275 | 0.08 |
| 9 | 43 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.775 | 1.715 | 134.28 | 0.065 |
| 10 | 43 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.775 | 1.725 | 134.27 | 0.075 |
| 11 | 43 | 134.22 | 1.79 | 1.645 | 134.365 | 134.22 | 1.775 | 1.715 | 134.28 | 0.085 |
| 12 | 43 | 134.22 | 1.79 | 1.605 | 134.405 | 134.22 | 1.775 | 1.715 | 134.28 | 0.125 |
| 13 | 43 | 134.22 | 1.79 | 1.635 | 134.375 | 134.22 | 1.775 | 1.75 | 134.245 | 0.13 |
| 14 | 43 | 134.22 | 1.79 | 1.63 | 134.38 | 134.22 | 1.775 | 1.755 | 134.24 | 0.14 |
| 15 | 43 | 134.22 | 1.79 | 1.665 | 134.345 | 134.22 | 1.775 | 1.76 | 134.235 | 0.11 |
| 16 | 43 | 134.22 | 1.79 | 1.645 | 134.365 | 134.22 | 1.775 | 1.785 | 134.21 | 0.155 |
| 17 | 43 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.775 | 1.785 | 134.21 | 0.16 |
| 18 | 43 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.775 | 1.74 | 134.255 | 0.115 |
| 19 | 43 | 134.22 | 1.79 | 1.575 | 134.435 | 134.22 | 1.775 | 1.74 | 134.255 | 0.18 |
| 20 | 43 | 134.22 | 1.79 | 1.64 | 134.37 | 134.22 | 1.775 | 1.745 | 134.25 | 0.12 |
| 21 | 43 | 134.22 | 1.79 | 1.62 | 134.39 | 134.22 | 1.775 | 1.73 | 134.265 | 0.125 |
| 22 | 43 | 134.22 | 1.79 | 1.61 | 134.4 | 134.22 | 1.775 | 1.725 | 134.27 | 0.13 |
| 23 | 43 | 134.22 | 1.79 | 1.61 | 134.4 | 134.22 | 1.775 | 1.73 | 134.265 | 0.135 |
| 24 | 43 | 134.22 | 1.79 | 1.61 | 134.4 | 134.22 | 1.775 | 1.715 | 134.28 | 0.12 |
| 25 | 43 | 134.22 | 1.79 | 1.58 | 134.43 | 134.22 | 1.775 | 1.685 | 134.31 | 0.12 |
| 26 | 43 | 134.22 | 1.79 | 1.53 | 134.48 | 134.22 | 1.775 | 1.655 | 134.34 | 0.14 |
| 27 | 43 | 134.22 | 1.79 | 1.52 | 134.49 | 134.22 | 1.775 | 1.61 | 134.385 | 0.105 |
| 28 | 43 | 134.22 | 1.79 | 1.5 | 134.51 | 134.22 | 1.775 | 1.575 | 134.42 | 0.09 |
| 0 | 44 | 134.22 | 1.95 | 1.84 | 134.33 | 134.22 | 1.775 | 1.7 | 134.295 | 0.035 |
| 1 | 44 | 134.22 | 1.95 | 1.82 | 134.35 | 134.22 | 1.775 | 1.74 | 134.255 | 0.095 |
| 2 | 44 | 134.22 | 1.95 | 1.81 | 134.36 | 134.22 | 1.775 | 1.76 | 134.235 | 0.125 |
| 3 | 44 | 134.22 | 1.95 | 1.815 | 134.355 | 134.22 | 1.775 | 1.765 | 134.23 | 0.125 |
| 4 | 44 | 134.22 | 1.95 | 1.825 | 134.345 | 134.22 | 1.775 | 1.73 | 134.265 | 0.08 |
| 5 | 44 | 134.22 | 1.95 | 1.78 | 134.39 | 134.22 | 1.775 | 1.735 | 134.26 | 0.13 |
| 6 | 44 | 134.22 | 1.95 | 1.785 | 134.385 | 134.22 | 1.775 | 1.74 | 134.255 | 0.13 |
| 7 | 44 | 134.22 | 1.95 | 1.785 | 134.385 | 134.22 | 1.775 | 1.725 | 134.27 | 0.115 |
| 8 | 44 | 134.22 | 1.95 | 1.795 | 134.375 | 134.22 | 1.775 | 1.7 | 134.295 | 0.08 |
| 9 | 44 | 134.22 | 1.95 | 1.775 | 134.395 | 134.22 | 1.775 | 1.705 | 134.29 | 0.105 |
| 10 | 44 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.7 | 134.295 | 0.11 |
| 11 | 44 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.7 | 134.295 | 0.115 |
| 12 | 44 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.72 | 134.275 | 0.135 |
| 13 | 44 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.73 | 134.265 | 0.135 |
| 14 | 44 | 134.22 | 1.95 | 1.79 | 134.38 | 134.22 | 1.775 | 1.74 | 134.255 | 0.125 |
| 15 | 44 | 134.22 | 1.95 | 1.8 | 134.37 | 134.22 | 1.775 | 1.755 | 134.24 | 0.13 |
| 16 | 44 | 134.22 | 1.95 | 1.78 | 134.39 | 134.22 | 1.775 | 1.76 | 134.235 | 0.155 |
| 17 | 44 | 134.22 | 1.95 | 1.785 | 134.385 | 134.22 | 1.775 | 1.745 | 134.25 | 0.135 |
| 18 | 44 | 134.22 | 1.95 | 1.78 | 134.39 | 134.22 | 1.775 | 1.72 | 134.275 | 0.115 |
| 19 | 44 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.73 | 134.265 | 0.17 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 20 | 44 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.745 | 134.25 | 0.18 |
| 21 | 44 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.725 | 134.27 | 0.16 |
| 22 | 44 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.71 | 134.285 | 0.135 |
| 23 | 44 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.7 | 134.295 | 0.125 |
| 24 | 44 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.685 | 134.31 | 0.135 |
| 25 | 44 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.68 | 134.315 | 0.155 |
| 26 | 44 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.67 | 134.325 | 0.145 |
| 27 | 44 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.675 | 134.32 | 0.155 |
| 28 | 44 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.61 | 134.385 | 0.125 |
| 29 | 44 | 134.22 | 1.95 | 1.6 | 134.57 | 134.22 | 1.775 | 1.54 | 134.455 | 0.115 |
| 0 | 45 | 134.22 | 1.95 | 1.83 | 134.34 | 134.22 | 1.775 | 1.71 | 134.285 | 0.055 |
| 1 | 45 | 134.22 | 1.95 | 1.8 | 134.37 | 134.22 | 1.775 | 1.74 | 134.255 | 0.115 |
| 2 | 45 | 134.22 | 1.95 | 1.78 | 134.39 | 134.22 | 1.775 | 1.74 | 134.255 | 0.135 |
| 3 | 45 | 134.22 | 1.95 | 1.805 | 134.365 | 134.22 | 1.775 | 1.745 | 134.25 | 0.115 |
| 4 | 45 | 134.22 | 1.95 | 1.785 | 134.385 | 134.22 | 1.775 | 1.72 | 134.275 | 0.11 |
| 5 | 45 | 134.22 | 1.95 | 1.8 | 134.37 | 134.22 | 1.775 | 1.74 | 134.255 | 0.115 |
| 6 | 45 | 134.22 | 1.95 | 1.775 | 134.395 | 134.22 | 1.775 | 1.715 | 134.28 | 0.115 |
| 7 | 45 | 134.22 | 1.95 | 1.775 | 134.395 | 134.22 | 1.775 | 1.71 | 134.285 | 0.11 |
| 8 | 45 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.69 | 134.305 | 0.095 |
| 9 | 45 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.69 | 134.305 | 0.135 |
| 10 | 45 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.69 | 134.305 | 0.115 |
| 11 | 45 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.685 | 134.31 | 0.105 |
| 12 | 45 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.71 | 134.285 | 0.15 |
| 13 | 45 | 134.22 | 1.95 | 1.55 | 134.62 | 134.22 | 1.775 | 1.7 | 134.295 | 0.325 |
| 14 | 45 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.72 | 134.275 | 0.13 |
| 15 | 45 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.715 | 134.28 | 0.125 |
| 16 | 45 | 134.22 | 1.95 | 1.785 | 134.385 | 134.22 | 1.775 | 1.75 | 134.245 | 0.14 |
| 17 | 45 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.75 | 134.245 | 0.155 |
| 18 | 45 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.705 | 134.29 | 0.12 |
| 19 | 45 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.72 | 134.275 | 0.155 |
| 20 | 45 | 134.22 | 1.95 | 1.705 | 134.465 | 134.22 | 1.775 | 1.72 | 134.275 | 0.19 |
| 21 | 45 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.7 | 134.295 | 0.15 |
| 22 | 45 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.68 | 134.315 | 0.1 |
| 23 | 45 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.68 | 134.315 | 0.135 |
| 24 | 45 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.66 | 134.335 | 0.12 |
| 25 | 45 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.67 | 134.325 | 0.145 |
| 26 | 45 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.66 | 134.335 | 0.175 |
| 27 | 45 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.62 | 134.375 | 0.095 |
| 28 | 45 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.6 | 134.395 | 0.115 |
| 29 | 45 | 134.22 | 1.95 | 1.595 | 134.575 | 134.22 | 1.775 | 1.54 | 134.455 | 0.12 |
| 0 | 46 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.69 | 134.305 | 0.1 |
| 1 | 46 | 134.22 | 1.95 | 1.78 | 134.39 | 134.22 | 1.775 | 1.715 | 134.28 | 0.11 |
| 2 | 46 | 134.22 | 1.95 | 1.79 | 134.38 | 134.22 | 1.775 | 1.72 | 134.275 | 0.105 |
| 3 | 46 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.72 | 134.275 | 0.125 |
| 4 | 46 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.71 | 134.285 | 0.12 |
| 5 | 46 | 134.22 | 1.95 | 1.775 | 134.395 | 134.22 | 1.775 | 1.715 | 134.28 | 0.115 |
| 6 | 46 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.725 | 134.27 | 0.13 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 7 | 46 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.7 | 134.295 | 0.115 |
| 8 | 46 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.69 | 134.305 | 0.1 |
| 9 | 46 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.685 | 134.31 | 0.12 |
| 10 | 46 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.69 | 134.305 | 0.115 |
| 11 | 46 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.69 | 134.305 | 0.125 |
| 12 | 46 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.7 | 134.295 | 0.145 |
| 13 | 46 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.705 | 134.29 | 0.145 |
| 14 | 46 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.7 | 134.295 | 0.125 |
| 15 | 46 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.73 | 134.265 | 0.155 |
| 16 | 46 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.73 | 134.265 | 0.135 |
| 17 | 46 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.705 | 134.29 | 0.11 |
| 18 | 46 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.7 | 134.295 | 0.125 |
| 19 | 46 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.69 | 134.305 | 0.145 |
| 20 | 46 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.69 | 134.305 | 0.14 |
| 21 | 46 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.685 | 134.31 | 0.17 |
| 22 | 46 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.67 | 134.325 | 0.155 |
| 23 | 46 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.68 | 134.315 | 0.125 |
| 24 | 46 | 134.22 | 1.95 | 1.665 | 134.505 | 134.22 | 1.775 | 1.67 | 134.325 | 0.18 |
| 25 | 46 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.66 | 134.335 | 0.165 |
| 26 | 46 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.67 | 134.325 | 0.175 |
| 27 | 46 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.63 | 134.365 | 0.115 |
| 28 | 46 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.56 | 134.435 | 0.04 |
| 29 | 46 | 134.22 | 1.95 | 1.595 | 134.575 | 134.22 | 1.775 | 1.57 | 134.425 | 0.15 |
| 0 | 47 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.695 | 134.3 | 0.11 |
| 1 | 47 | 134.22 | 1.95 | 1.79 | 134.38 | 134.22 | 1.775 | 1.715 | 134.28 | 0.1 |
| 2 | 47 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.72 | 134.275 | 0.14 |
| 3 | 47 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.73 | 134.265 | 0.145 |
| 4 | 47 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.7 | 134.295 | 0.12 |
| 5 | 47 | 134.22 | 1.95 | 1.775 | 134.395 | 134.22 | 1.775 | 1.715 | 134.28 | 0.115 |
| 6 | 47 | 134.22 | 1.95 | 1.775 | 134.395 | 134.22 | 1.775 | 1.71 | 134.285 | 0.11 |
| 7 | 47 | 134.22 | 1.95 | 1.775 | 134.395 | 134.22 | 1.775 | 1.705 | 134.29 | 0.105 |
| 8 | 47 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.7 | 134.295 | 0.115 |
| 9 | 47 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.69 | 134.305 | 0.14 |
| 10 | 47 | 134.22 | 1.95 | 1.745 | 134.425 | 134.22 | 1.775 | 1.68 | 134.315 | 0.11 |
| 11 | 47 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.69 | 134.305 | 0.13 |
| 12 | 47 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.695 | 134.3 | 0.135 |
| 13 | 47 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.71 | 134.285 | 0.155 |
| 14 | 47 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.705 | 134.29 | 0.15 |
| 15 | 47 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.715 | 134.28 | 0.125 |
| 16 | 47 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.71 | 134.285 | 0.12 |
| 17 | 47 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.68 | 134.315 | 0.085 |
| 18 | 47 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.685 | 134.31 | 0.125 |
| 19 | 47 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.7 | 134.295 | 0.14 |
| 20 | 47 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.68 | 134.315 | 0.145 |
| 21 | 47 | 134.22 | 1.95 | 1.675 | 134.495 | 134.22 | 1.775 | 1.675 | 134.32 | 0.175 |
| 22 | 47 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.65 | 134.345 | 0.165 |
| 23 | 47 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.64 | 134.355 | 0.135 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 24 | 47 | 134.22 | 1.95 | 1.685 | 134.485 | 134.22 | 1.775 | 1.63 | 134.365 | 0.12 |
| 25 | 47 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.665 | 134.33 | 0.17 |
| 26 | 47 | 134.22 | 1.95 | 1.685 | 134.485 | 134.22 | 1.775 | 1.66 | 134.335 | 0.15 |
| 27 | 47 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.6 | 134.395 | 0.105 |
| 28 | 47 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.59 | 134.405 | 0.05 |
| 29 | 47 | 134.22 | 1.95 | 1.63 | 134.54 | 134.22 | 1.775 | 1.54 | 134.455 | 0.085 |
| 0 | 48 | 134.22 | 1.95 | 1.8 | 134.37 | 134.22 | 1.775 | 1.695 | 134.3 | 0.07 |
| 1 | 48 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.725 | 134.27 | 0.13 |
| 2 | 48 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.715 | 134.28 | 0.135 |
| 3 | 48 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.7 | 134.295 | 0.125 |
| 4 | 48 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.7 | 134.295 | 0.105 |
| 5 | 48 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.7 | 134.295 | 0.12 |
| 6 | 48 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.71 | 134.285 | 0.135 |
| 7 | 48 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.715 | 134.28 | 0.125 |
| 8 | 48 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.7 | 134.295 | 0.11 |
| 9 | 48 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.7 | 134.295 | 0.145 |
| 10 | 48 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.7 | 134.295 | 0.12 |
| 11 | 48 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.68 | 134.315 | 0.105 |
| 12 | 48 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.695 | 134.3 | 0.13 |
| 13 | 48 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.7 | 134.295 | 0.14 |
| 14 | 48 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.7 | 134.295 | 0.145 |
| 15 | 48 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.705 | 134.29 | 0.13 |
| 16 | 48 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.705 | 134.29 | 0.14 |
| 17 | 48 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.695 | 134.3 | 0.1 |
| 18 | 48 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.685 | 134.31 | 0.12 |
| 19 | 48 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.69 | 134.305 | 0.15 |
| 20 | 48 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.69 | 134.305 | 0.155 |
| 21 | 48 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.68 | 134.315 | 0.185 |
| 22 | 48 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.67 | 134.325 | 0.165 |
| 23 | 48 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.615 | 134.38 | 0.11 |
| 24 | 48 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.625 | 134.37 | 0.13 |
| 25 | 48 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.645 | 134.35 | 0.16 |
| 26 | 48 | 134.22 | 1.95 | 1.615 | 134.555 | 134.22 | 1.775 | 1.645 | 134.35 | 0.205 |
| 27 | 48 | 134.22 | 1.95 | 1.63 | 134.54 | 134.22 | 1.775 | 1.63 | 134.365 | 0.175 |
| 28 | 48 | 134.22 | 1.95 | 1.675 | 134.495 | 134.22 | 1.775 | 1.575 | 134.42 | 0.075 |
| 29 | 48 | 134.22 | 1.95 | 1.605 | 134.565 | 134.22 | 1.775 | 1.535 | 134.46 | 0.105 |
| 0 | 49 | 134.22 | 1.95 | 1.79 | 134.38 | 134.22 | 1.775 | 1.69 | 134.305 | 0.075 |
| 1 | 49 | 134.22 | 1.95 | 1.775 | 134.395 | 134.22 | 1.775 | 1.7 | 134.295 | 0.1 |
| 2 | 49 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.7 | 134.295 | 0.105 |
| 3 | 49 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.69 | 134.305 | 0.105 |
| 4 | 49 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.7 | 134.295 | 0.12 |
| 5 | 49 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.7 | 134.295 | 0.12 |
| 6 | 49 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.7 | 134.295 | 0.12 |
| 7 | 49 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.72 | 134.275 | 0.135 |
| 8 | 49 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.705 | 134.29 | 0.11 |
| 9 | 49 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.695 | 134.3 | 0.13 |
| 10 | 49 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.68 | 134.315 | 0.12 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 11 | 49 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.685 | 134.31 | 0.095 |
| 12 | 49 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.685 | 134.31 | 0.105 |
| 13 | 49 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.69 | 134.305 | 0.125 |
| 14 | 49 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.695 | 134.3 | 0.11 |
| 15 | 49 | 134.22 | 1.95 | 1.745 | 134.425 | 134.22 | 1.775 | 1.71 | 134.285 | 0.14 |
| 16 | 49 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.685 | 134.31 | 0.09 |
| 17 | 49 | 134.22 | 1.95 | 1.745 | 134.425 | 134.22 | 1.775 | 1.69 | 134.305 | 0.12 |
| 18 | 49 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.675 | 134.32 | 0.12 |
| 19 | 49 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.675 | 134.32 | 0.155 |
| 20 | 49 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.68 | 134.315 | 0.165 |
| 21 | 49 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.66 | 134.335 | 0.14 |
| 22 | 49 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.635 | 134.36 | 0.11 |
| 23 | 49 | 134.22 | 1.95 | 1.675 | 134.495 | 134.22 | 1.775 | 1.625 | 134.37 | 0.125 |
| 24 | 49 | 134.22 | 1.95 | 1.65 | 134.52 | 134.22 | 1.775 | 1.625 | 134.37 | 0.15 |
| 25 | 49 | 134.22 | 1.95 | 1.635 | 134.535 | 134.22 | 1.775 | 1.645 | 134.35 | 0.185 |
| 26 | 49 | 134.22 | 1.95 | 1.625 | 134.545 | 134.22 | 1.775 | 1.64 | 134.355 | 0.19 |
| 27 | 49 | 134.22 | 1.95 | 1.685 | 134.485 | 134.22 | 1.775 | 1.605 | 134.39 | 0.095 |
| 28 | 49 | 134.22 | 1.95 | 1.665 | 134.505 | 134.22 | 1.775 | 1.575 | 134.42 | 0.085 |
| 29 | 49 | 134.22 | 1.95 | 1.6 | 134.57 | 134.22 | 1.775 | 1.555 | 134.44 | 0.13 |
| 0 | 50 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.66 | 134.335 | 0.085 |
| 1 | 50 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.66 | 134.335 | 0.12 |
| 2 | 50 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.685 | 134.31 | 0.15 |
| 3 | 50 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.69 | 134.305 | 0.14 |
| 4 | 50 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.69 | 134.305 | 0.115 |
| 5 | 50 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.685 | 134.31 | 0.13 |
| 6 | 50 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.7 | 134.295 | 0.15 |
| 7 | 50 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.71 | 134.285 | 0.115 |
| 8 | 50 | 134.22 | 1.95 | 1.78 | 134.39 | 134.22 | 1.775 | 1.7 | 134.295 | 0.095 |
| 9 | 50 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.705 | 134.29 | 0.13 |
| 10 | 50 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.695 | 134.3 | 0.11 |
| 11 | 50 | 134.22 | 1.95 | 1.78 | 134.39 | 134.22 | 1.775 | 1.68 | 134.315 | 0.075 |
| 12 | 50 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.69 | 134.305 | 0.115 |
| 13 | 50 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.69 | 134.305 | 0.115 |
| 14 | 50 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.7 | 134.295 | 0.14 |
| 15 | 50 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.69 | 134.305 | 0.11 |
| 16 | 50 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.68 | 134.315 | 0.115 |
| 17 | 50 | 134.22 | 1.95 | 1.745 | 134.425 | 134.22 | 1.775 | 1.68 | 134.315 | 0.11 |
| 18 | 50 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.68 | 134.315 | 0.145 |
| 19 | 50 | 134.22 | 1.95 | 1.705 | 134.465 | 134.22 | 1.775 | 1.655 | 134.34 | 0.125 |
| 20 | 50 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.685 | 134.31 | 0.145 |
| 21 | 50 | 134.22 | 1.95 | 1.685 | 134.485 | 134.22 | 1.775 | 1.665 | 134.33 | 0.155 |
| 22 | 50 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.655 | 134.34 | 0.16 |
| 23 | 50 | 134.22 | 1.95 | 1.65 | 134.52 | 134.22 | 1.775 | 1.64 | 134.355 | 0.165 |
| 24 | 50 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.62 | 134.375 | 0.135 |
| 25 | 50 | 134.22 | 1.95 | 1.62 | 134.55 | 134.22 | 1.775 | 1.63 | 134.365 | 0.185 |
| 26 | 50 | 134.22 | 1.95 | 1.645 | 134.525 | 134.22 | 1.775 | 1.625 | 134.37 | 0.155 |
| 27 | 50 | 134.22 | 1.95 | 1.645 | 134.525 | 134.22 | 1.775 | 1.585 | 134.41 | 0.115 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 28 | 50 | 134.22 | 1.95 | 1.655 | 134.515 | 134.22 | 1.775 | 1.575 | 134.42 | 0.095 |
| 29 | 50 | 134.22 | 1.95 | 1.59 | 134.58 | 134.22 | 1.775 | 1.555 | 134.44 | 0.14 |
| 0 | 51 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.665 | 134.33 | 0.09 |
| 1 | 51 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.675 | 134.32 | 0.16 |
| 2 | 51 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.68 | 134.315 | 0.155 |
| 3 | 51 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.69 | 134.305 | 0.115 |
| 4 | 51 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.695 | 134.3 | 0.15 |
| 5 | 51 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.68 | 134.315 | 0.14 |
| 6 | 51 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.7 | 134.295 | 0.12 |
| 7 | 51 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.71 | 134.285 | 0.12 |
| 8 | 51 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.69 | 134.305 | 0.1 |
| 9 | 51 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.685 | 134.31 | 0.105 |
| 10 | 51 | 134.22 | 1.95 | 1.78 | 134.39 | 134.22 | 1.775 | 1.685 | 134.31 | 0.08 |
| 11 | 51 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.675 | 134.32 | 0.09 |
| 12 | 51 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.69 | 134.305 | 0.11 |
| 13 | 51 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.7 | 134.295 | 0.14 |
| 14 | 51 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.68 | 134.315 | 0.095 |
| 15 | 51 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.67 | 134.325 | 0.145 |
| 16 | 51 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.69 | 134.305 | 0.155 |
| 17 | 51 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.67 | 134.325 | 0.135 |
| 18 | 51 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.655 | 134.34 | 0.15 |
| 19 | 51 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.665 | 134.33 | 0.13 |
| 20 | 51 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.675 | 134.32 | 0.15 |
| 21 | 51 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.665 | 134.33 | 0.15 |
| 22 | 51 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.645 | 134.35 | 0.14 |
| 23 | 51 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.63 | 134.365 | 0.145 |
| 24 | 51 | 134.22 | 1.95 | 1.665 | 134.505 | 134.22 | 1.775 | 1.64 | 134.355 | 0.15 |
| 25 | 51 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.64 | 134.355 | 0.145 |
| 26 | 51 | 134.22 | 1.95 | 1.635 | 134.535 | 134.22 | 1.775 | 1.61 | 134.385 | 0.15 |
| 27 | 51 | 134.22 | 1.95 | 1.635 | 134.535 | 134.22 | 1.775 | 1.6 | 134.395 | 0.14 |
| 28 | 51 | 134.22 | 1.95 | 1.6 | 134.57 | 134.22 | 1.775 | 1.575 | 134.42 | 0.15 |
| 29 | 51 | 134.22 | 1.95 | 1.565 | 134.605 | 134.22 | 1.775 | 1.535 | 134.46 | 0.145 |
| 0 | 52 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.66 | 134.335 | 0.145 |
| 1 | 52 | 134.22 | 1.95 | 1.675 | 134.495 | 134.22 | 1.775 | 1.665 | 134.33 | 0.165 |
| 2 | 52 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.69 | 134.305 | 0.155 |
| 3 | 52 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.71 | 134.285 | 0.165 |
| 4 | 52 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.7 | 134.295 | 0.18 |
| 5 | 52 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.69 | 134.305 | 0.17 |
| 6 | 52 | 134.22 | 1.95 | 1.705 | 134.465 | 134.22 | 1.775 | 1.695 | 134.3 | 0.165 |
| 7 | 52 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.69 | 134.305 | 0.135 |
| 8 | 52 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.69 | 134.305 | 0.13 |
| 9 | 52 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.675 | 134.32 | 0.11 |
| 10 | 52 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.67 | 134.325 | 0.085 |
| 11 | 52 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.67 | 134.325 | 0.095 |
| 12 | 52 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.69 | 134.305 | 0.135 |
| 13 | 52 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.69 | 134.305 | 0.175 |
| 14 | 52 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.685 | 134.31 | 0.14 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 15 | 52 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.685 | 134.31 | 0.15 |
| 16 | 52 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.67 | 134.325 | 0.12 |
| 17 | 52 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.66 | 134.335 | 0.105 |
| 18 | 52 | 134.22 | 1.95 | 1.685 | 134.485 | 134.22 | 1.775 | 1.66 | 134.335 | 0.15 |
| 19 | 52 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.665 | 134.33 | 0.16 |
| 20 | 52 | 134.22 | 1.95 | 1.675 | 134.495 | 134.22 | 1.775 | 1.68 | 134.315 | 0.18 |
| 21 | 52 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.665 | 134.33 | 0.16 |
| 22 | 52 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.66 | 134.335 | 0.155 |
| 23 | 52 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.62 | 134.375 | 0.135 |
| 24 | 52 | 134.22 | 1.95 | 1.63 | 134.54 | 134.22 | 1.775 | 1.62 | 134.375 | 0.165 |
| 25 | 52 | 134.22 | 1.95 | 1.65 | 134.52 | 134.22 | 1.775 | 1.635 | 134.36 | 0.16 |
| 26 | 52 | 134.22 | 1.95 | 1.64 | 134.53 | 134.22 | 1.775 | 1.61 | 134.385 | 0.145 |
| 27 | 52 | 134.22 | 1.95 | 1.62 | 134.55 | 134.22 | 1.775 | 1.57 | 134.425 | 0.125 |
| 28 | 52 | 134.22 | 1.95 | 1.605 | 134.565 | 134.22 | 1.775 | 1.575 | 134.42 | 0.145 |
| 29 | 52 | 134.22 | 1.95 | 1.57 | 134.6 | 134.22 | 1.775 | 1.54 | 134.455 | 0.145 |
| 0 | 53 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.65 | 134.345 | 0.115 |
| 1 | 53 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.69 | 134.305 | 0.17 |
| 2 | 53 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.695 | 134.3 | 0.16 |
| 3 | 53 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.7 | 134.295 | 0.15 |
| 4 | 53 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.72 | 134.275 | 0.175 |
| 5 | 53 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.69 | 134.305 | 0.175 |
| 6 | 53 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.675 | 134.32 | 0.16 |
| 7 | 53 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.685 | 134.31 | 0.14 |
| 8 | 53 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.69 | 134.305 | 0.145 |
| 9 | 53 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.665 | 134.33 | 0.105 |
| 10 | 53 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.655 | 134.34 | 0.115 |
| 11 | 53 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.67 | 134.325 | 0.125 |
| 12 | 53 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.66 | 134.335 | 0.11 |
| 13 | 53 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.67 | 134.325 | 0.125 |
| 14 | 53 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.655 | 134.34 | 0.12 |
| 15 | 53 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.665 | 134.33 | 0.125 |
| 16 | 53 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.65 | 134.345 | 0.11 |
| 17 | 53 | 134.22 | 1.95 | 1.705 | 134.465 | 134.22 | 1.775 | 1.64 | 134.355 | 0.11 |
| 18 | 53 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.655 | 134.34 | 0.13 |
| 19 | 53 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.67 | 134.325 | 0.135 |
| 20 | 53 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.665 | 134.33 | 0.12 |
| 21 | 53 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.655 | 134.34 | 0.135 |
| 22 | 53 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.66 | 134.335 | 0.155 |
| 23 | 53 | 134.22 | 1.95 | 1.655 | 134.515 | 134.22 | 1.775 | 1.65 | 134.345 | 0.17 |
| 24 | 53 | 134.22 | 1.95 | 1.645 | 134.525 | 134.22 | 1.775 | 1.625 | 134.37 | 0.155 |
| 25 | 53 | 134.22 | 1.95 | 1.65 | 134.52 | 134.22 | 1.775 | 1.615 | 134.38 | 0.14 |
| 26 | 53 | 134.22 | 1.95 | 1.65 | 134.52 | 134.22 | 1.775 | 1.595 | 134.4 | 0.12 |
| 27 | 53 | 134.22 | 1.95 | 1.65 | 134.52 | 134.22 | 1.775 | 1.56 | 134.435 | 0.085 |
| 28 | 53 | 134.22 | 1.95 | 1.645 | 134.525 | 134.22 | 1.775 | 1.55 | 134.445 | 0.08 |
| 29 | 53 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.545 | 134.45 | 0.06 |
| 0 | 54 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.7 | 134.295 | 0.14 |
| 1 | 54 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.7 | 134.295 | 0.175 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 2 | 54 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.72 | 134.275 | 0.18 |
| 3 | 54 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.705 | 134.29 | 0.155 |
| 4 | 54 | 134.22 | 1.95 | 1.705 | 134.465 | 134.22 | 1.775 | 1.7 | 134.295 | 0.17 |
| 5 | 54 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.69 | 134.305 | 0.135 |
| 6 | 54 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.675 | 134.32 | 0.14 |
| 7 | 54 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.68 | 134.315 | 0.14 |
| 8 | 54 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.69 | 134.305 | 0.17 |
| 9 | 54 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.675 | 134.32 | 0.11 |
| 10 | 54 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.655 | 134.34 | 0.1 |
| 11 | 54 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.65 | 134.345 | 0.105 |
| 12 | 54 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.655 | 134.34 | 0.115 |
| 13 | 54 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.67 | 134.325 | 0.13 |
| 14 | 54 | 134.22 | 1.95 | 1.705 | 134.465 | 134.22 | 1.775 | 1.65 | 134.345 | 0.12 |
| 15 | 54 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.65 | 134.345 | 0.135 |
| 16 | 54 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.655 | 134.34 | 0.13 |
| 17 | 54 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.665 | 134.33 | 0.125 |
| 18 | 54 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.66 | 134.335 | 0.105 |
| 19 | 54 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.675 | 134.32 | 0.14 |
| 20 | 54 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.675 | 134.32 | 0.14 |
| 21 | 54 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.655 | 134.34 | 0.135 |
| 22 | 54 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.65 | 134.345 | 0.145 |
| 23 | 54 | 134.22 | 1.95 | 1.64 | 134.53 | 134.22 | 1.775 | 1.63 | 134.365 | 0.165 |
| 24 | 54 | 134.22 | 1.95 | 1.645 | 134.525 | 134.22 | 1.775 | 1.625 | 134.37 | 0.155 |
| 25 | 54 | 134.22 | 1.95 | 1.65 | 134.52 | 134.22 | 1.775 | 1.62 | 134.375 | 0.145 |
| 26 | 54 | 134.22 | 1.95 | 1.65 | 134.52 | 134.22 | 1.775 | 1.595 | 134.4 | 0.12 |
| 27 | 54 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.58 | 134.415 | 0.085 |
| 28 | 54 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.55 | 134.445 | 0.065 |
| 29 | 54 | 134.22 | 1.95 | 1.625 | 134.545 | 134.22 | 1.775 | 1.555 | 134.44 | 0.105 |
| 0 | 55 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.69 | 134.305 | 0.15 |
| 1 | 55 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.71 | 134.285 | 0.165 |
| 2 | 55 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.715 | 134.28 | 0.175 |
| 3 | 55 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.71 | 134.285 | 0.145 |
| 4 | 55 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.695 | 134.3 | 0.12 |
| 5 | 55 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.695 | 134.3 | 0.12 |
| 6 | 55 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.675 | 134.32 | 0.11 |
| 7 | 55 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.685 | 134.31 | 0.11 |
| 8 | 55 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.685 | 134.31 | 0.11 |
| 9 | 55 | 134.22 | 1.95 | 1.745 | 134.425 | 134.22 | 1.775 | 1.67 | 134.325 | 0.1 |
| 10 | 55 | 134.22 | 1.95 | 1.725 | 134.445 | 134.22 | 1.775 | 1.685 | 134.31 | 0.135 |
| 11 | 55 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.66 | 134.335 | 0.105 |
| 12 | 55 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.655 | 134.34 | 0.115 |
| 13 | 55 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.655 | 134.34 | 0.12 |
| 14 | 55 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.65 | 134.345 | 0.11 |
| 15 | 55 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.65 | 134.345 | 0.125 |
| 16 | 55 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.66 | 134.335 | 0.115 |
| 17 | 55 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.655 | 134.34 | 0.115 |
| 18 | 55 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.665 | 134.33 | 0.105 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 19 | 55 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.675 | 134.32 | 0.12 |
| 20 | 55 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.665 | 134.33 | 0.145 |
| 21 | 55 | 134.22 | 1.95 | 1.705 | 134.465 | 134.22 | 1.775 | 1.655 | 134.34 | 0.125 |
| 22 | 55 | 134.22 | 1.95 | 1.695 | 134.475 | 134.22 | 1.775 | 1.645 | 134.35 | 0.125 |
| 23 | 55 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.645 | 134.35 | 0.14 |
| 24 | 55 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.63 | 134.365 | 0.145 |
| 25 | 55 | 134.22 | 1.95 | 1.64 | 134.53 | 134.22 | 1.775 | 1.615 | 134.38 | 0.15 |
| 26 | 55 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.595 | 134.4 | 0.1 |
| 27 | 55 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.58 | 134.415 | 0.075 |
| 28 | 55 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.555 | 134.44 | 0.07 |
| 29 | 55 | 134.22 | 1.95 | 1.6 | 134.57 | 134.22 | 1.775 | 1.565 | 134.43 | 0.14 |
| 0 | 56 | 134.22 | 1.95 | 1.735 | 134.435 | 134.22 | 1.775 | 1.675 | 134.32 | 0.115 |
| 1 | 56 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.69 | 134.305 | 0.155 |
| 2 | 56 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.69 | 134.305 | 0.155 |
| 3 | 56 | 134.22 | 1.95 | 1.73 | 134.44 | 134.22 | 1.775 | 1.69 | 134.305 | 0.135 |
| 4 | 56 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.68 | 134.315 | 0.1 |
| 5 | 56 | 134.22 | 1.95 | 1.775 | 134.395 | 134.22 | 1.775 | 1.66 | 134.335 | 0.06 |
| 6 | 56 | 134.22 | 1.95 | 1.78 | 134.39 | 134.22 | 1.775 | 1.67 | 134.325 | 0.065 |
| 7 | 56 | 134.22 | 1.95 | 1.76 | 134.41 | 134.22 | 1.775 | 1.68 | 134.315 | 0.095 |
| 8 | 56 | 134.22 | 1.95 | 1.765 | 134.405 | 134.22 | 1.775 | 1.66 | 134.335 | 0.07 |
| 9 | 56 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.64 | 134.355 | 0.075 |
| 10 | 56 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.655 | 134.34 | 0.09 |
| 11 | 56 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.675 | 134.32 | 0.135 |
| 12 | 56 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.67 | 134.325 | 0.13 |
| 13 | 56 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.635 | 134.36 | 0.07 |
| 14 | 56 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.645 | 134.35 | 0.08 |
| 15 | 56 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.66 | 134.335 | 0.125 |
| 16 | 56 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.665 | 134.33 | 0.14 |
| 17 | 56 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.66 | 134.335 | 0.115 |
| 18 | 56 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.65 | 134.345 | 0.125 |
| 19 | 56 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.66 | 134.335 | 0.12 |
| 20 | 56 | 134.22 | 1.95 | 1.7 | 134.47 | 134.22 | 1.775 | 1.655 | 134.34 | 0.13 |
| 21 | 56 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.655 | 134.34 | 0.14 |
| 22 | 56 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.63 | 134.365 | 0.125 |
| 23 | 56 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.615 | 134.38 | 0.13 |
| 24 | 56 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.605 | 134.39 | 0.1 |
| 25 | 56 | 134.22 | 1.95 | 1.675 | 134.495 | 134.22 | 1.775 | 1.615 | 134.38 | 0.115 |
| 26 | 56 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.585 | 134.41 | 0.08 |
| 27 | 56 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.565 | 134.43 | 0.07 |
| 28 | 56 | 134.22 | 1.95 | 1.62 | 134.55 | 134.22 | 1.775 | 1.56 | 134.435 | 0.115 |
| 29 | 56 | 134.22 | 1.95 | 1.59 | 134.58 | 134.22 | 1.775 | 1.55 | 134.445 | 0.135 |
| 0 | 57 | 134.22 | 1.95 | 1.775 | 134.395 | 134.22 | 1.775 | 1.675 | 134.32 | 0.075 |
| 1 | 57 | 134.22 | 1.95 | 1.75 | 134.42 | 134.22 | 1.775 | 1.69 | 134.305 | 0.115 |
| 2 | 57 | 134.22 | 1.95 | 1.81 | 134.36 | 134.22 | 1.775 | 1.69 | 134.305 | 0.055 |
| 3 | 57 | 134.22 | 1.95 | 1.8 | 134.37 | 134.22 | 1.775 | 1.69 | 134.305 | 0.065 |
| 4 | 57 | 134.22 | 1.95 | 1.81 | 134.36 | 134.22 | 1.775 | 1.68 | 134.315 | 0.045 |
| 5 | 57 | 134.22 | 1.95 | 1.825 | 134.345 | 134.22 | 1.775 | 1.66 | 134.335 | 0.01 |

| X | Y | Pre-excavation | | | | Post-excavation | | | | Z |
|----|----|----------------|------|-------|---------|-----------------|-------|-------|---------|-------|
| | | TBM | B.S. | F.S. | R.L | TBM | B.S. | F.S. | R.L | |
| 6 | 57 | 134.22 | 1.95 | 1.815 | 134.355 | 134.22 | 1.775 | 1.67 | 134.325 | 0.03 |
| 7 | 57 | 134.22 | 1.95 | 1.8 | 134.37 | 134.22 | 1.775 | 1.68 | 134.315 | 0.055 |
| 8 | 57 | 134.22 | 1.95 | 1.8 | 134.37 | 134.22 | 1.775 | 1.66 | 134.335 | 0.035 |
| 9 | 57 | 134.22 | 1.95 | 1.81 | 134.36 | 134.22 | 1.775 | 1.64 | 134.355 | 0.005 |
| 10 | 57 | 134.22 | 1.95 | 1.81 | 134.36 | 134.22 | 1.775 | 1.635 | 134.36 | 0 |
| 11 | 57 | 134.22 | 1.95 | 1.78 | 134.39 | 134.22 | 1.775 | 1.655 | 134.34 | 0.05 |
| 12 | 57 | 134.22 | 1.95 | 1.77 | 134.4 | 134.22 | 1.775 | 1.66 | 134.335 | 0.065 |
| 13 | 57 | 134.22 | 1.95 | 1.755 | 134.415 | 134.22 | 1.775 | 1.65 | 134.345 | 0.07 |
| 14 | 57 | 134.22 | 1.95 | 1.745 | 134.425 | 134.22 | 1.775 | 1.635 | 134.36 | 0.065 |
| 15 | 57 | 134.22 | 1.95 | 1.74 | 134.43 | 134.22 | 1.775 | 1.655 | 134.34 | 0.09 |
| 16 | 57 | 134.22 | 1.95 | 1.705 | 134.465 | 134.22 | 1.775 | 1.655 | 134.34 | 0.125 |
| 17 | 57 | 134.22 | 1.95 | 1.69 | 134.48 | 134.22 | 1.775 | 1.63 | 134.365 | 0.115 |
| 18 | 57 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.615 | 134.38 | 0.08 |
| 19 | 57 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.645 | 134.35 | 0.1 |
| 20 | 57 | 134.22 | 1.95 | 1.72 | 134.45 | 134.22 | 1.775 | 1.64 | 134.355 | 0.095 |
| 21 | 57 | 134.22 | 1.95 | 1.71 | 134.46 | 134.22 | 1.775 | 1.615 | 134.38 | 0.08 |
| 22 | 57 | 134.22 | 1.95 | 1.715 | 134.455 | 134.22 | 1.775 | 1.615 | 134.38 | 0.075 |
| 23 | 57 | 134.22 | 1.95 | 1.68 | 134.49 | 134.22 | 1.775 | 1.6 | 134.395 | 0.095 |
| 24 | 57 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.59 | 134.405 | 0.105 |
| 25 | 57 | 134.22 | 1.95 | 1.67 | 134.5 | 134.22 | 1.775 | 1.59 | 134.405 | 0.095 |
| 26 | 57 | 134.22 | 1.95 | 1.66 | 134.51 | 134.22 | 1.775 | 1.585 | 134.41 | 0.1 |
| 27 | 57 | 134.22 | 1.95 | 1.64 | 134.53 | 134.22 | 1.775 | 1.57 | 134.425 | 0.105 |
| 28 | 57 | 134.22 | 1.95 | 1.61 | 134.56 | 134.22 | 1.775 | 1.545 | 134.45 | 0.11 |
| 29 | 57 | 134.22 | 1.95 | 1.55 | 134.62 | 134.22 | 1.775 | 1.535 | 134.46 | 0.16 |

Appendix 2 Technical information

The archive

The archive consists of:

- 11 Fieldwork progress records AS2
- 1 Photographic records AS3
- 11 Digital photographs
- 25 Levels record sheets AS19
- 1 Box of finds
- 1 Computer disk

The project archive is intended to be placed at:

Cheltenham Art Gallery and Museum
Clarence Street
Cheltenham
Gloucestershire
GL50 3JT
