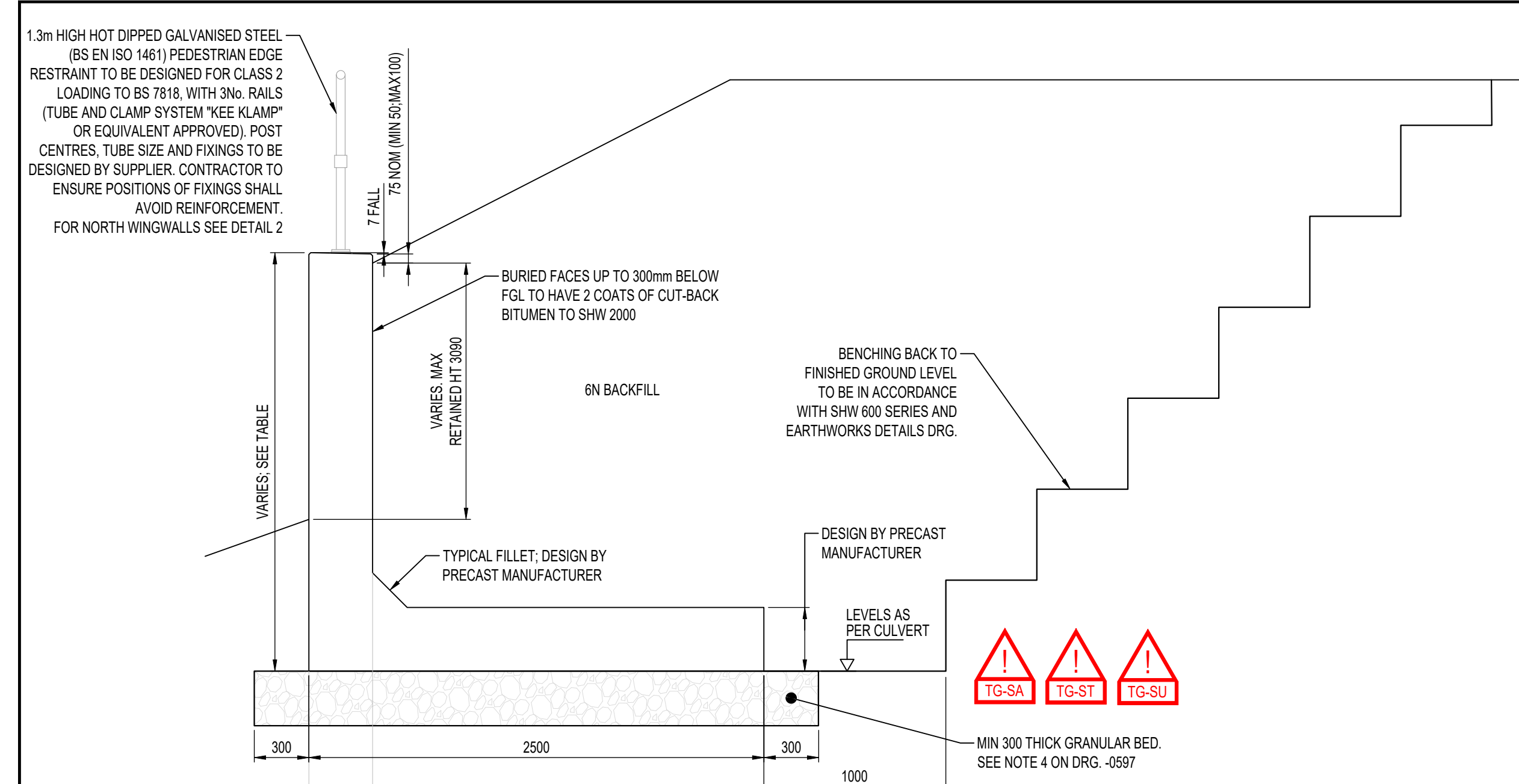
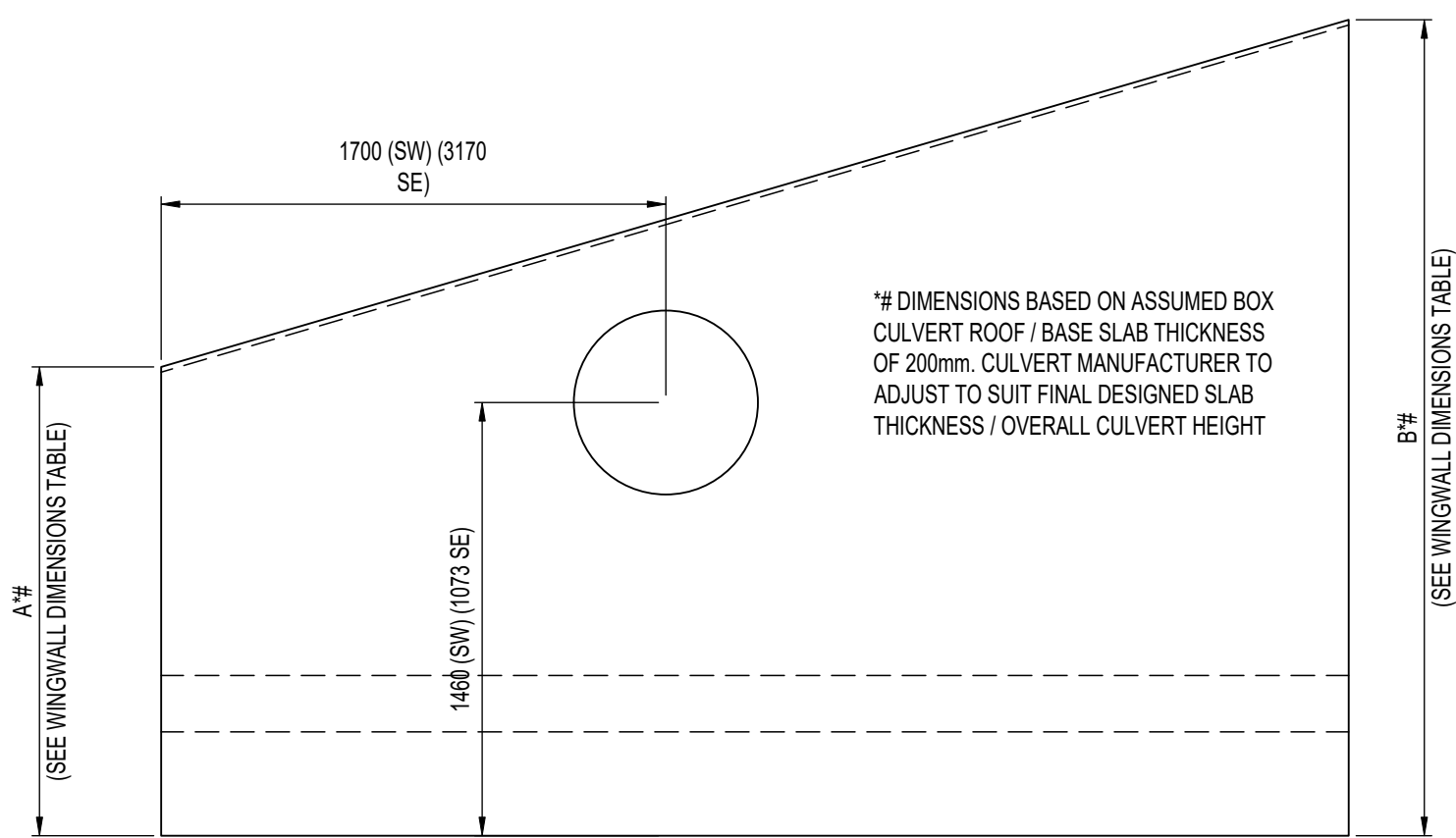


File name: P:\BOLDATA\PROJECTS\2018\18047\B01\WIP\DRAWINGS\WHP-TG-SRWG1-DR-SE-0597.DWG, created on 18 June 2025 08:52:10, by K1

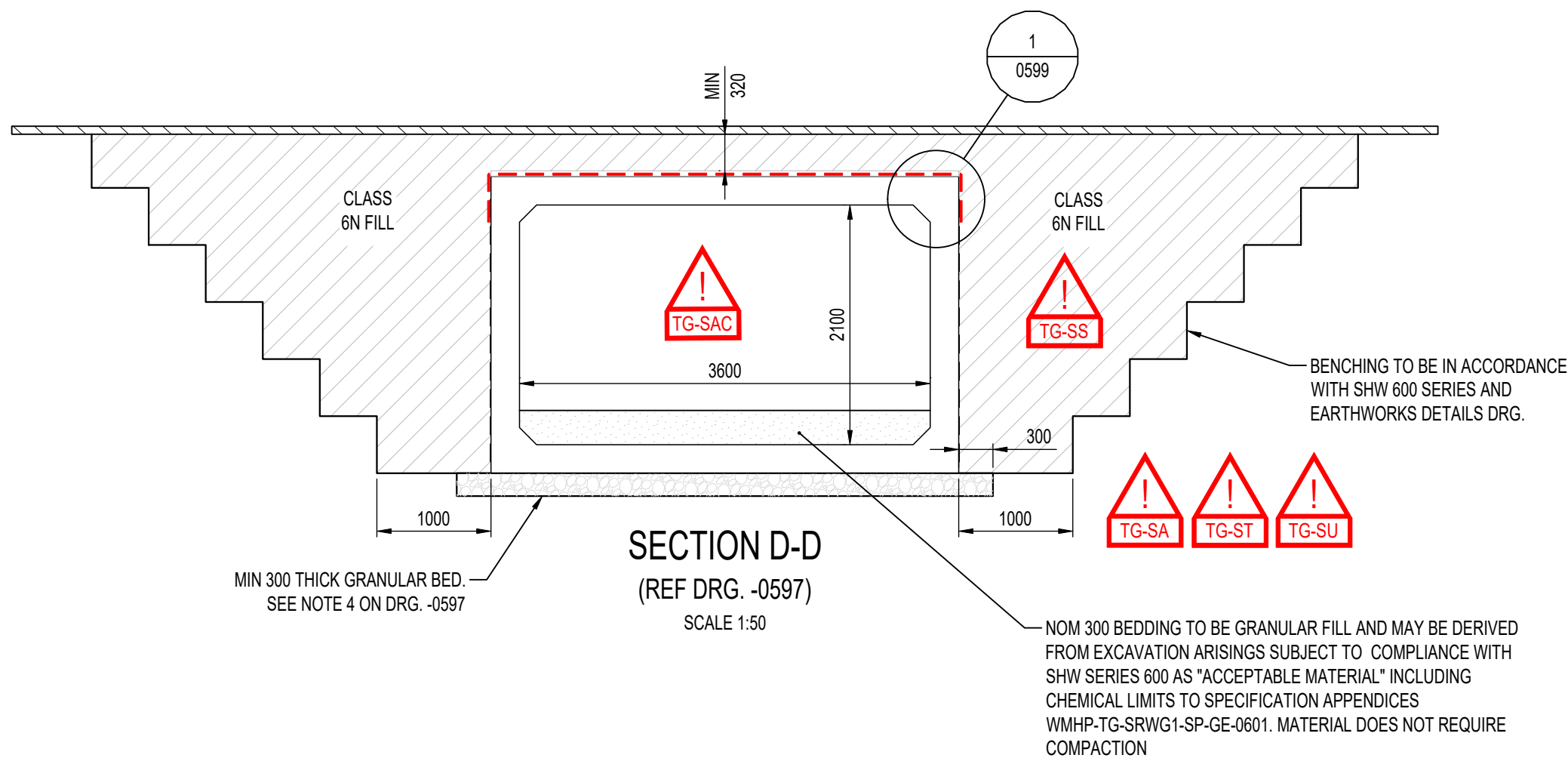


SECTION C-C  
TYPICAL WING WALL SECTION (OTHERS SIMILAR)  
(REF DRG. -0597)  
SCALE 1:25

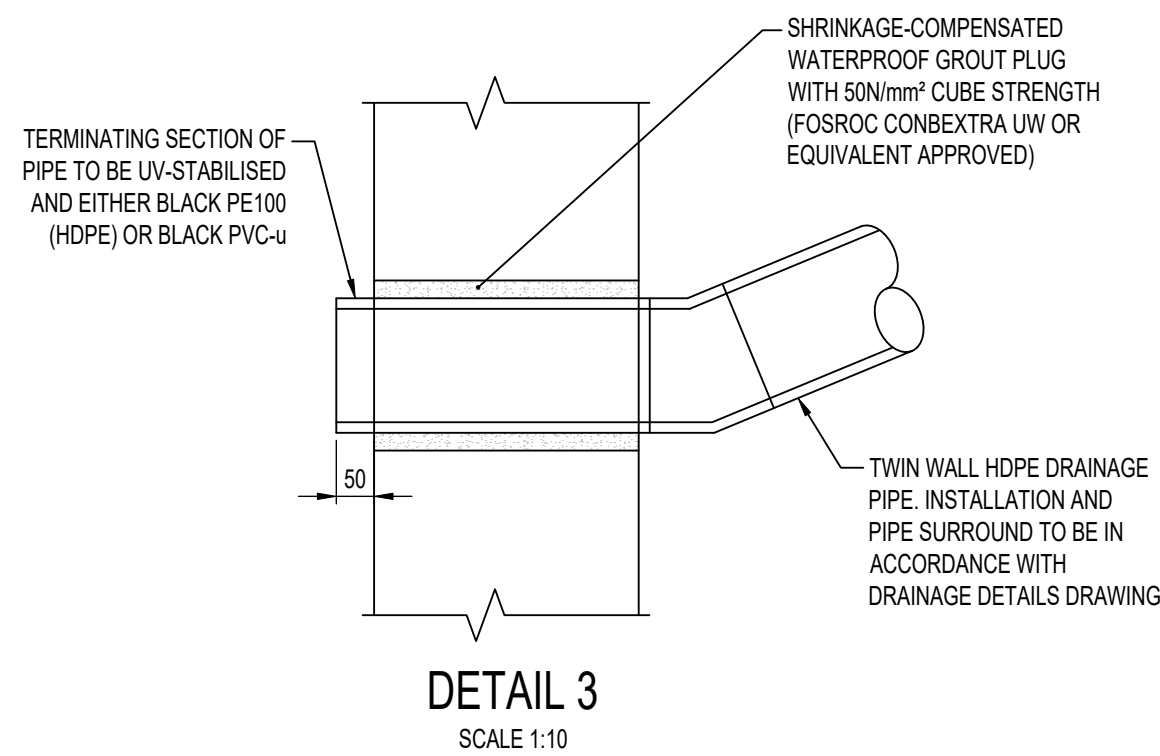


ELEVATION E-E  
TYPICAL WING WALL ELEVATION (OTHERS SIMILAR, EXCEPT HOLE ONLY IN SE)  
SCALE 1:25

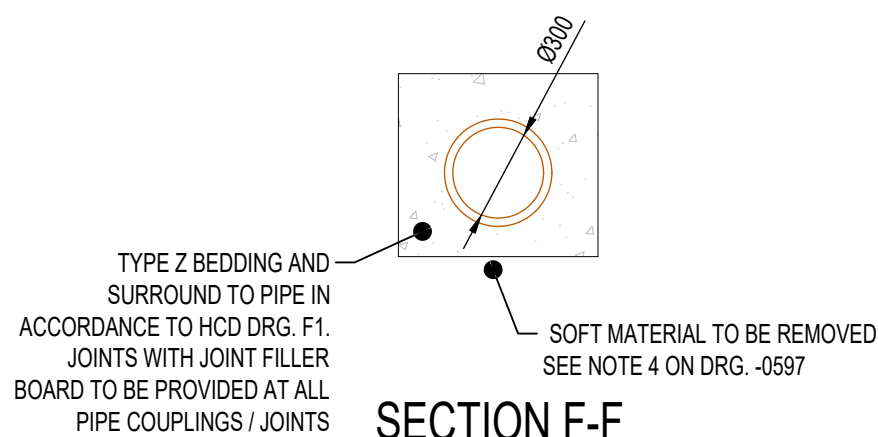
| WINGWALL DIMENSIONS |      |      |
|---------------------|------|------|
|                     | A *# | B *# |
| NW WINGWALL         | 1870 | 3475 |
| NE WINGWALL         | 1870 | 3475 |
| SW WINGWALL         | 1928 | 2985 |
| SE WINGWALL         | 2395 | 2985 |



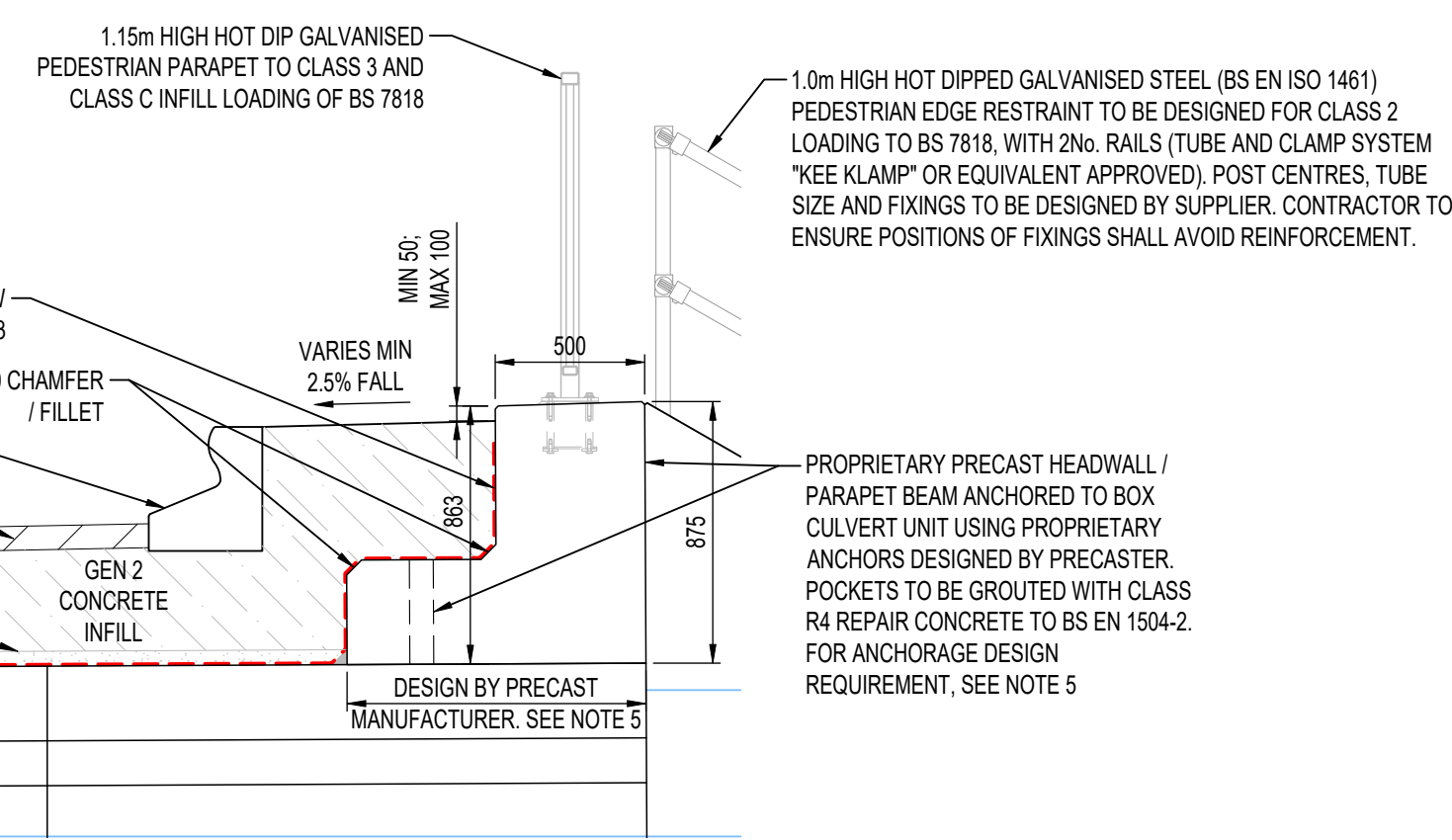
SECTION D-D  
(REF DRG. -0597)  
SCALE 1:50



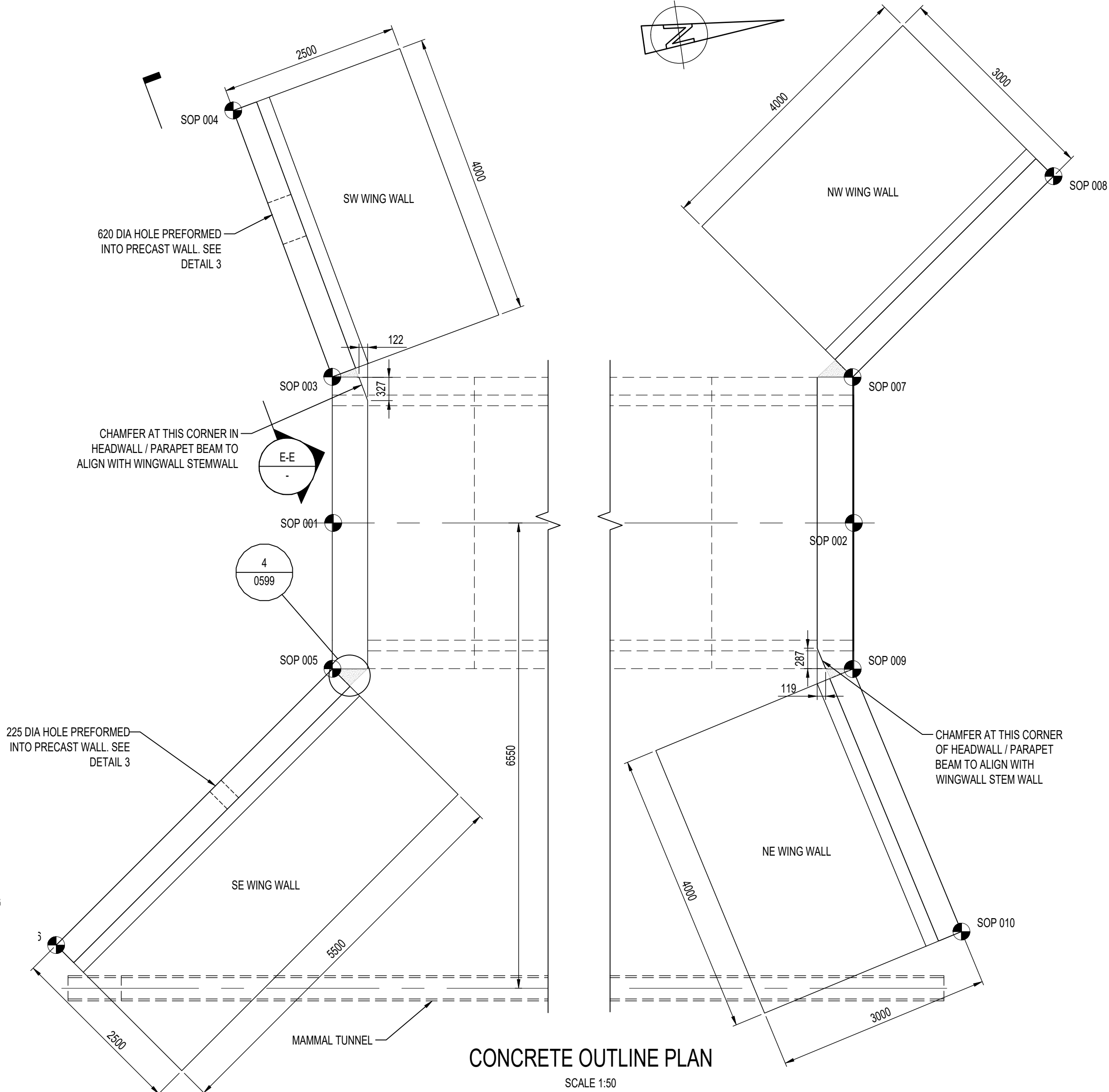
DETAIL 3  
SCALE 1:10



SECTION F-F  
THROUGH MAMMAL TUNNEL  
(REF DRG. -0597)  
SCALE 1:25



DETAIL 2  
(REF DRG. -0597)  
SCALE 1:25



CONCRETE OUTLINE PLAN  
SCALE 1:50

| SETTING OUT COORDINATES |            |            |
|-------------------------|------------|------------|
| SOP_NO.                 | EASTING    | NORTHING   |
| SOP 001                 | 482315.652 | 167797.148 |
| SOP 002                 | 482318.463 | 167816.949 |
| SOP 003                 | 482313.614 | 167797.424 |
| SOP 004                 | 482309.706 | 167796.571 |
| SOP 005                 | 482317.683 | 167796.649 |
| SOP 006                 | 482320.987 | 167792.452 |
| SOP 007                 | 482316.428 | 167817.220 |
| SOP 008                 | 482314.025 | 167820.417 |
| SOP 009                 | 482320.496 | 167816.644 |
| SOP 010                 | 482324.370 | 167817.640 |

| SIGNIFICANT RESIDUAL HAZARDS                                     |       |                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESIDUAL HAZARD                                                  | STAGE | SUGGESTED CONTROL MEASURE                                                                                                                                                                                                                                                              |
| PLACING FILL INSIDE CULVERT-CONFINED SPACE                       | C     | CONTRACTOR TO PLACE FILL SEGMENTALLY AS THE CULVERT UNITS ARE PLACED.                                                                                                                                                                                                                  |
| ENCOUNTERING GROUNDWATER IN EXCAVATION                           | C/D   | CONTRACTOR TO IMPLEMENT SUITABLE WATER MANAGEMENT MEASURES AS NECESSARY                                                                                                                                                                                                                |
| PRESENCE OF BURIED SERVICES                                      | C/D   | SERVICES SHOWN BASED ON C2/C3 SEARCHES. CONTRACTOR TO CARRY OUT FURTHER SURVEYS AND SCANS TO CONFIRM POSITION OF SERVICES PRIOR TO CONSTRUCTION.                                                                                                                                       |
| UNBALANCED BACKFILL TO CULVERT WALLS CAUSING CULVERT INSTABILITY | C/D   | BACKFILL CULVERTS IN UNIFORM AND BALANCED MANNER, WITH NO MORE THAN 200mm LEVEL DIFFERENCE BETWEEN THE 2 OPPOSING WALLS. ENSURE THE SAME PLAN EXTENT / WIDTH OF FILL ON BOTH WALLS IN DIRECTION PARALLEL TO WALLS AND PLAN WIDTHS ARE ALIGNED IN DIRECTION PERPENDICULAR TO WALL FACE. |
| UNEXPLODED ORDNANCE                                              | C/D   | "LOW RISK" CATEGORY IDENTIFIED BY "1ST LINE DEFENCE" DESK STUDY RA. UXO RISK MANAGEMENT PLAN AND SITE SPECIFIC UXO AWARENESS BRIEFINGS TO BE GIVEN TO ALL PERSONNEL CONDUCTING INTRUSIVE WORKS                                                                                         |

NOTE: The above hazards do not include every hazard or assumption, but identify significant residual construction hazards that are not likely to be obvious to a competent contractor and those that could be difficult to manage effectively. Refer also to the designer's risk documentation.

DO NOT SCALE

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES AOD UNLESS NOTED OTHERWISE.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. WMHP-TG-SRWG1-DR-SE-0597 AND ALL NOTES CONTAINED THEREIN.
- ALL PRECAST CONCRETE EDGES TO HAVE 10 x 10 CHAMFERS UNLESS NOTED OTHERWISE.
- NORTH PRECAST HEADWALL / PARAPET BEAM TO BE DESIGNED TO RESIST N1 CONTAINMENT KERB IMPACT FORCE OF 200kN ACCIDENTAL LOAD CASE IN ACCORDANCE WITH AIP DOCUMENT WMHP-TG-SRWG1-RP-SE-0596 AND NA TO BS EN 1990 AND BS EN 1991-2 (INCLUDING COMBINATION RULES FOR ACCIDENTAL CASE). SOUTH PRECAST HEADWALL / PARAPET BEAM TO BE DESIGNED FOR EARTH PRESSURE, SURCHARGE OF 5kN/m<sup>2</sup> AND PEDESTRIAN EDGE RESTRAINT LOADING SHOWN ON SECTION B-B OF DRG. -0597.

KEYPLAN

SWDR - WESTERN GATEWAY PHASE 2  
SWDR - SPINE ROAD AND WESTERN GATEWAY PHASE 1

|     |            |    |                                      |     |     |
|-----|------------|----|--------------------------------------|-----|-----|
| 0   | 0          | 0  | 0                                    | 0   | 0   |
| 0   | 0          | 0  | 0                                    | 0   | 0   |
| POB | 13/06/2025 | NL | UPDATED TO ADDRESS PLANNING COMMENTS | WA  | KL  |
| REV | DATE       | BY | DESCRIPTION                          | CHK | APP |

DRAWING STATUS: SUITABLE FOR APPROVAL S5

DESIGNER:

**Tony Gee**  
Consulting Civil, Structural and Geotechnical Engineers

**Tony Gee and Partners LLP**  
Hardy House  
140 High Street  
Esher, Surrey  
KT10 9QJ  
Tel: 01372 461600  
www.tonygee.com

CONTRACTOR:

CLIENT:

**WOKINGHAM BOROUGH COUNCIL**  
Shute End, Wokingham, Berkshire RG40 1BN  
Tel: (0118) 974 6000 Web: www.wokingham.gov.uk

PROJECT:

WOKINGHAM MAJOR HIGHWAYS PROGRAMME  
SPINE ROAD AND WESTERN GATEWAY PHASE 1

TITLE:

CULVERT C  
STRUCTURE REFERENCE: 3105  
GENERAL ARRANGEMENT

SHEET 2

|                          |           |           |
|--------------------------|-----------|-----------|
| SCALE @ A1:              | CHECKED:  | APPROVED: |
| AS SHOWN                 | JC        | CMF       |
| PROJECT NO:              | DESIGNED: | DRAWN:    |
| C118047                  | KL        | TCH       |
| DRAWING NO:              | DATE:     | REV:      |
| WMHP-TG-SRWG1-DR-SE-0598 | May 21    | P06       |