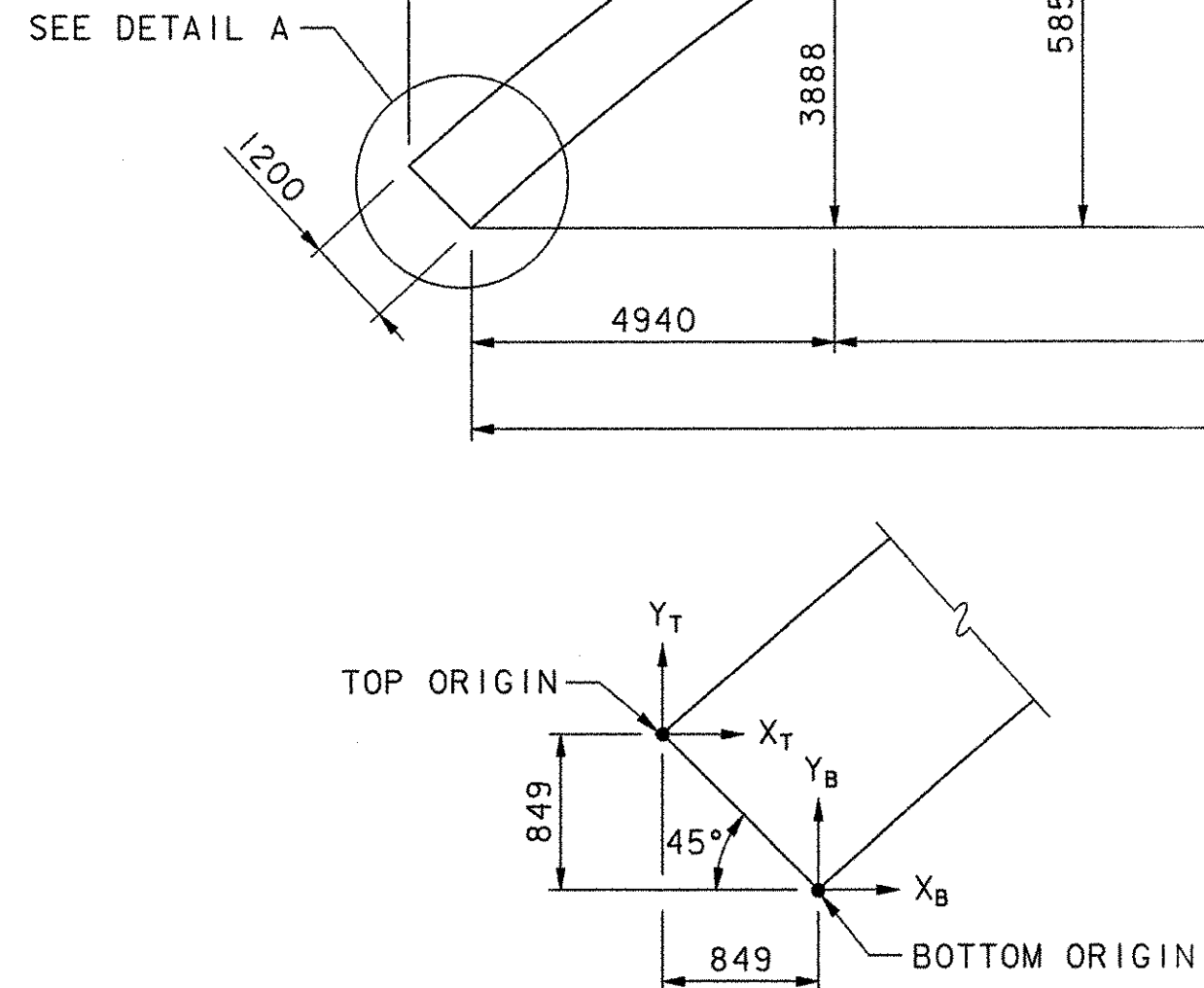
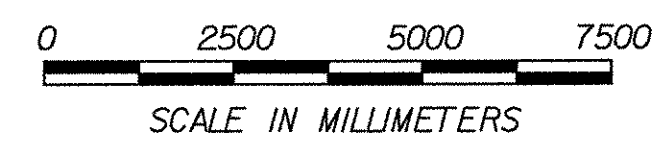


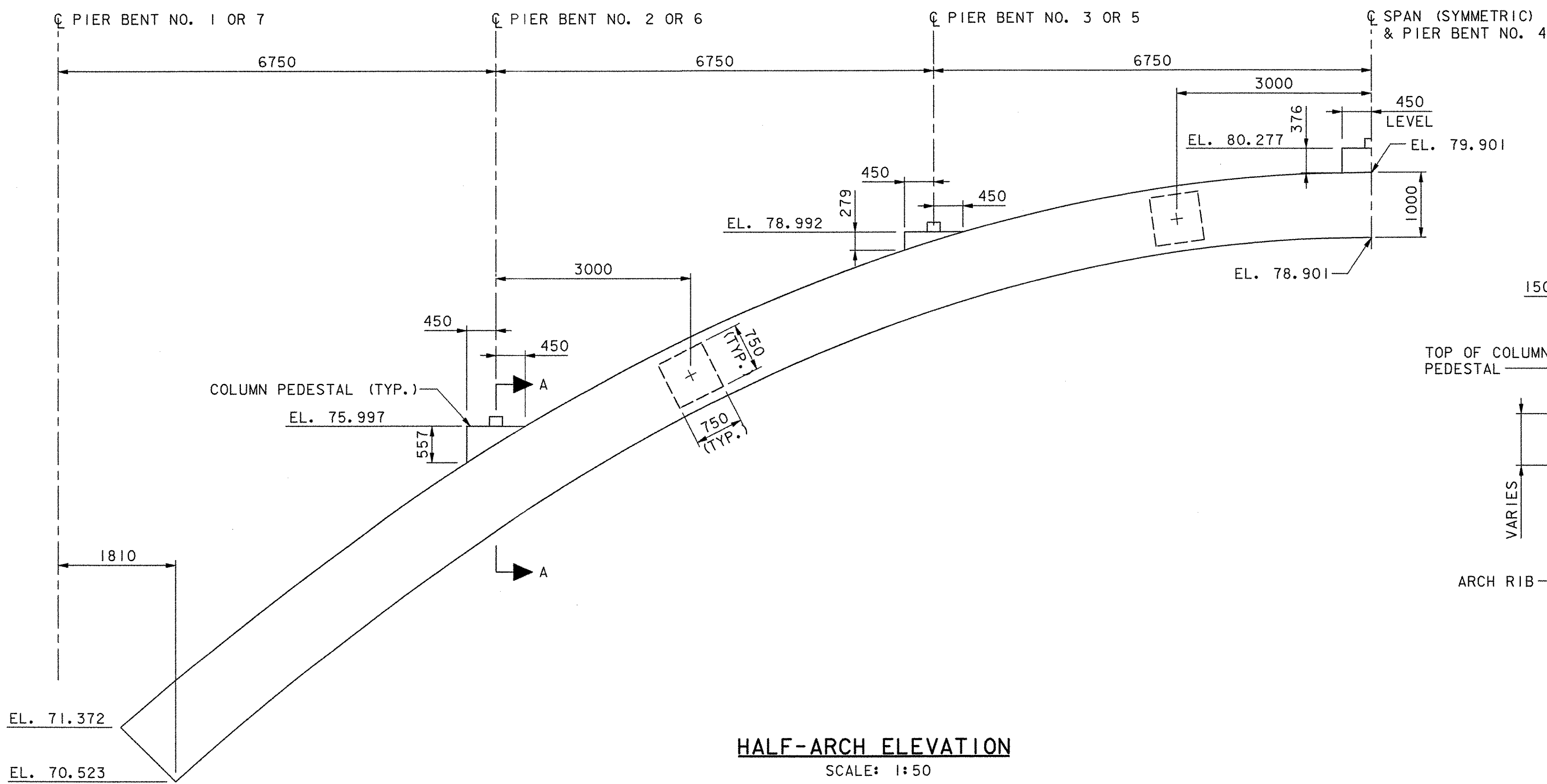
ARCH GEOMETRY DIAGRAM

SCALE: 1:100



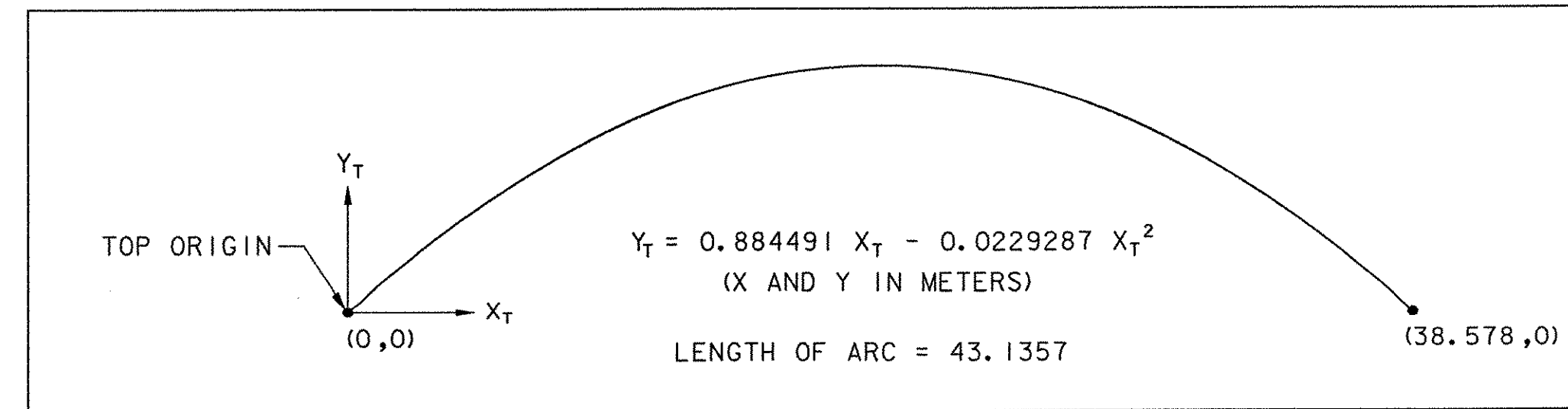
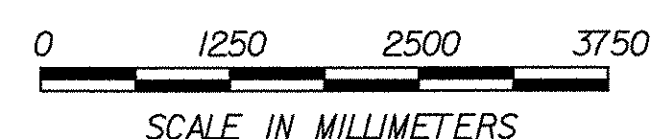
DETAIL A

NOT TO SCALE



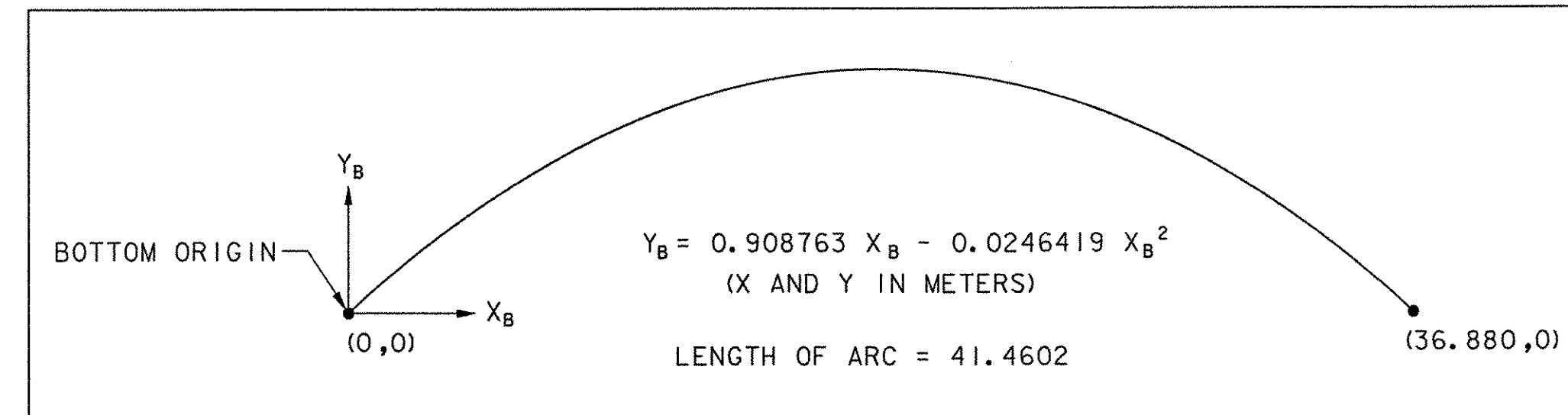
HALF-ARCH ELEVATION

SCALE: 1:50



TOP OF ARCH LAYOUT

NOT TO SCALE

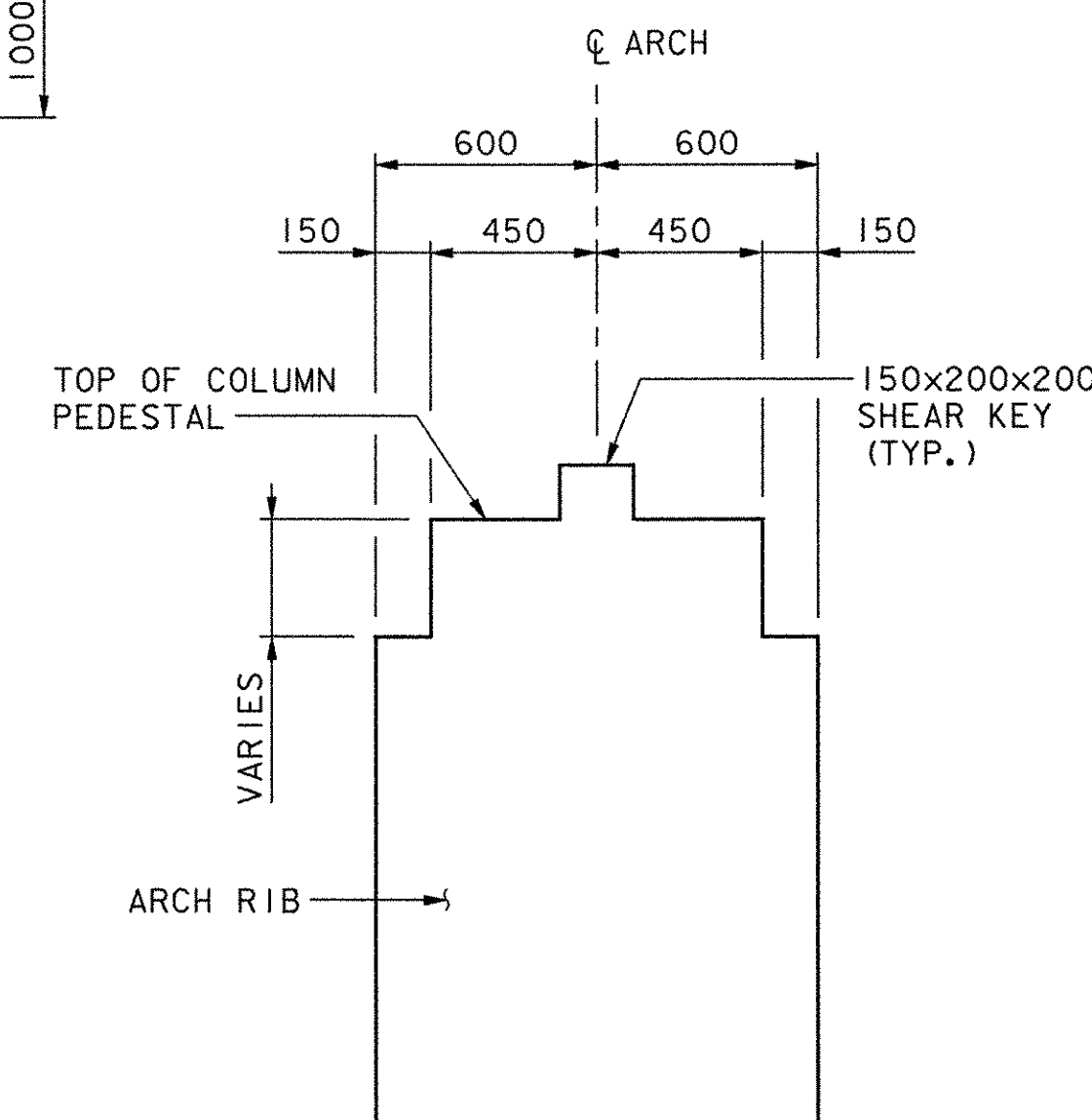


BOTTOM OF ARCH LAYOUT

NOT TO SCALE

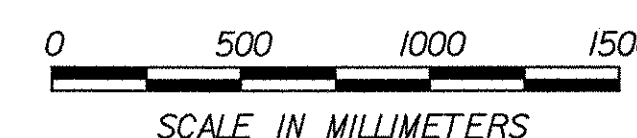
NOTES:

1. ARCH FALSEWORK SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH SECTION 501.09A OF THE SUPPLEMENTAL SPECIFICATIONS. ALL ARCH FALSEWORK AND FORM WORK SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURES ENGINEER IN ACCORDANCE WITH SECTION 105.03 OF THE STANDARD SPECIFICATIONS
2. CONCRETE IN EACH ARCH SHALL BE SIMULTANEOUSLY PLACED FROM BOTH ENDS OF THE ARCH SUCH THAT THE LEVEL OF CONCRETE IS SUBSTANTIALLY EVEN AT ALL TIMES. CONCRETE SHALL BE KEPT PLASTIC UNTIL THE ENTIRE ARCH PLACEMENT IS COMPLETE.
3. ARCH FALSEWORK SHALL REMAIN IN PLACE UNTIL AFTER ERECTION OF ALL BOX BEAMS AND SOLID SLABS.
4. ALL GRADES AND DIMENSIONS HAVE BEEN CALCULATED FOR CONSTRUCTION PURPOSES UNLESS OTHERWISE NOTED. INSTANTANEOUS DEFLECTION OF THE STRUCTURE IS ANTICIPATED TO BE 5 mm AT THE CENTER OF THE ARCH SPAN AFTER CONSTRUCTION OF ALL BENTS (COLUMNS AND FLOORBEAMS). LONG-TERM DEFLECTION IS ANTICIPATED TO BE A TOTAL OF APPROXIMATELY 19 mm. THE CONTRACTOR IS RESPONSIBLE FOR INCORPORATING THE TOTAL CAMBER AND DEFLECTIONS WHEN BUILDING THE FRAMEWORK.
5. PEDESTALS SHALL BE CAST INTEGRALLY WITH THE ARCH RIBS.
6. DIAPHRAGMS SHALL BE ORIENTED IN LINE WITH THE ARCH RIBS.
7. THE ELEVATIONS SHOWN ON THE PLANS ARE DESIGN ELEVATIONS AND DO NOT INCLUDE THE THEORETICAL INSTANTANEOUS AND LONG TERM DEFLECTIONS OF THE ARCH RIBS AND PIER BENTS. THE CONTRACTOR IS RESPONSIBLE FOR INCORPORATING THE INSTANTANEOUS AND LONG TERM DEFLECTIONS WHEN CONSTRUCTING THE ARCH AND PIER BENT FORM WORK. THE CONTRACTOR SHALL PROVIDE ACTUAL SURVEYED ELEVATIONS AFTER EACH PHASE, INCLUDING FALSEWORK ERECTION, FORM WORK CONSTRUCTION, AND EACH CONCRETE PLACEMENT SEQUENCE AND SHALL COMPARE THESE WITH THE PROPOSED DESIGN ELEVATIONS. THIS INFORMATION SHALL BE PROVIDED TO THE RESIDENT ENGINEER FOR REVIEW BEFORE PROCEEDING WITH THE NEXT PHASE OF ARCH OR PIER BENT CONSTRUCTION. THESE SURVEYED ELEVATIONS WILL BE USED BY THE CONTRACTOR TO MAKE MODIFICATIONS IN THE FIELD BASED UPON ACTUAL CONDITIONS. THE CONTRACTOR SHALL ENSURE THAT THE FINAL PROPOSED BRIDGE SEAT ELEVATIONS SHOWN ON THE PLANS ARE ACHIEVED. ALL COST FOR SURVEYS, COORDINATION, AND ELEVATION MODIFICATIONS SHALL BE INCIDENTAL TO THE APPROPRIATE CONCRETE PAY ITEM FOR THAT COMPONENT OF THE BRIDGE.



SECTION A-A

SCALE: 1:20



DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (92)

VHB Vanasse Hangen Brustlin, Inc.

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

| | |
|---------------------------------------|---------------------|
| Town Of COLCHESTER-SOUTH BURLINGTON | Bridge No. 6 |
| Highway No. TH 4/3 | Log Sta. Surv. Sta. |
| TH 4/3 OVER WINOOSKI RIVER & N.E.C.R. | |

ARCH MASONRY

| | |
|-------------------------------------|------------------------------------|
| Designed By W.M. MOSHER | Drawn By B.J. MASSE |
| Checked By K.G. KRETSCH | Bridge Design Supervisor S.M. GUNN |
| Date 4/05 | Date 4/05 |
| PROJECT COLCHESTER-SOUTH BURLINGTON | PROJECT NO. BRM 5600 (6) S C/2 |
| I.G.C. Info. | |
| Bridge Sheet No. ZD139AE | Sheet 73 of 124 |