

**SOIL NAIL WALL - PLAN VIEW**

HORIZONTAL SCALE = 1:100  
VERTICAL SCALE = 1:40

**SEGMENT "A"**

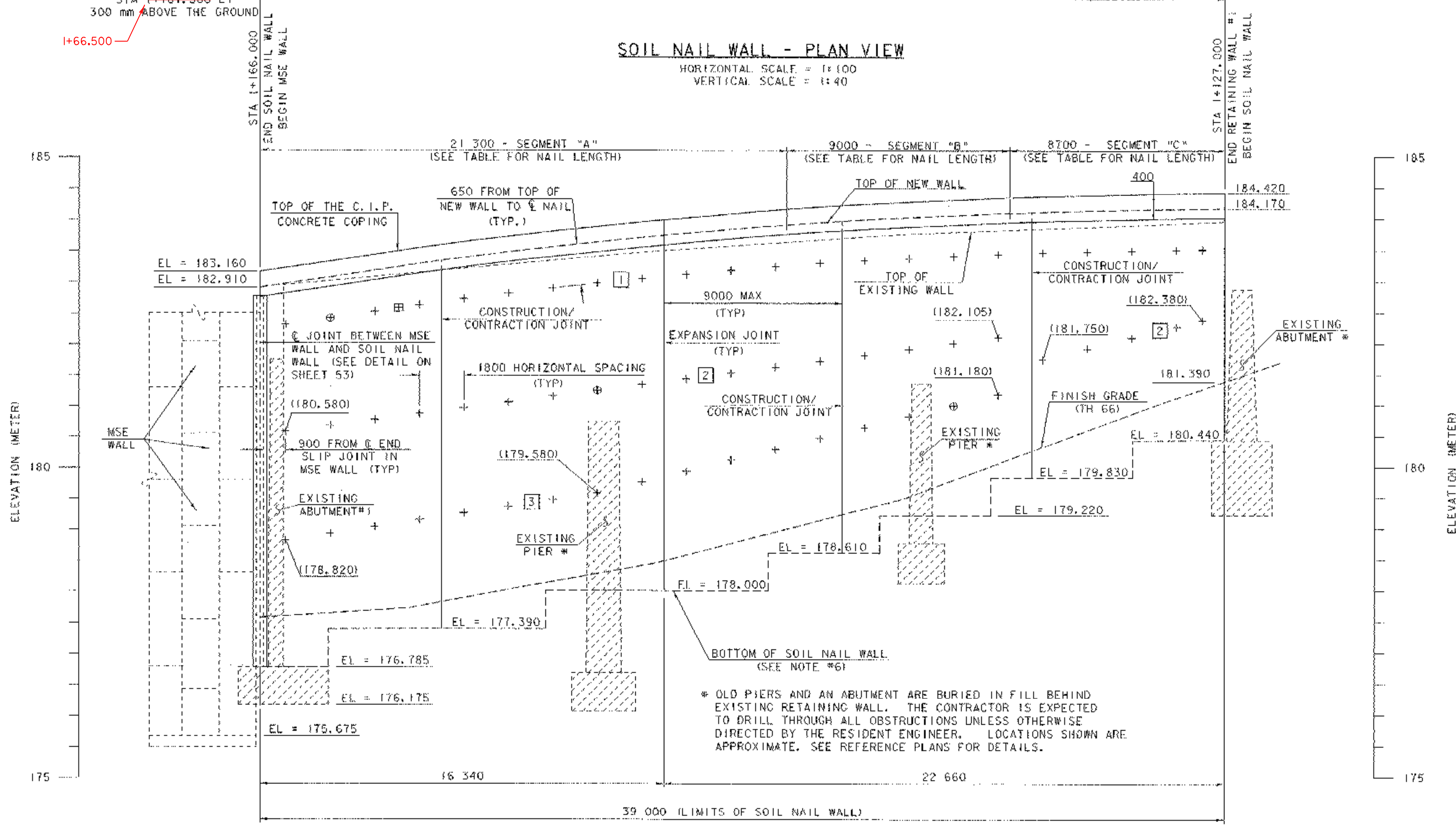
ROW	L	BAR	Q <sub>d</sub>
1	4.88	25	1128.500 kg/m
2	4.88	25	1128.500 kg/m
3	4.88	25	1128.500 kg/m

**SEGMENT "B"**

ROW	L	BAR	Q <sub>d</sub>
1	4.27	25	1128.500 kg/m
2	4.27	25	1128.500 kg/m
3	4.27	25	1128.500 kg/m

**SEGMENT "C"**

ROW	L	BAR	Q <sub>d</sub>
1	3.05	25	1128.500 kg/m
2	3.05	25	1128.500 kg/m



**SOIL NAIL WALL - ELEVATION VIEW**

HORIZONTAL SCALE = 1:100  
VERTICAL SCALE = 1:40

- NOTES:**
1. NAIL ELEVATIONS NOT SHOWN, EXCEPT THOSE FROM FIRST ROW, SHALL BE LINEARLY INTERPOLATED BETWEEN THOSE SHOWN.
  2. LOCATION OF THE FIRST ROW OF NAILS SHALL BE 650mm FROM THE TOP OF THE NEW WALL.
  3. THE EXPANSION JOINT LOCATION SHALL BE LOCATED PRIOR TO THE CONSTRUCTION OF SOIL NAILS AND AT LEAST 300 MM CLEAR DISTANCE SHALL BE PROVIDED BETWEEN THE JOINT AND THE NAILS.
  4. IF REINFORCING BARS WITH CUT THREADS ARE USED FOR NAILS, THE NEXT LARGER BAR SIZE ABOVE THAT SHOWN SHALL BE PROVIDED AT NO ADDITIONAL COST.
  5. ALL DIMENSIONS AND ELEVATIONS ARE HORIZONTAL OR VERTICAL AND GIVEN TO THE FRONT FACE OF EXISTING WALL UNLESS OTHERWISE NOTED ON THE PLANS.
  6. BOTTOM OF SOIL NAIL WALL ELEVATIONS ARE TO THE TOP OF THE EXISTING RETAINING WALL FOOTINGS. ELEVATIONS ARE FROM THE REFERENCE PLANS AND MAY VARY SLIGHTLY FROM WHAT IS SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY ELEVATIONS PRIOR TO CONSTRUCTING THE SOIL NAIL WALL.
  7. THE QUANTITIES FOR THE CONCRETE, REINFORCING STEEL, FORM LINERS AND STAIN FOR PATTERNED WALL HAVE BEEN SHOWN IN THE ROADWAY COLUMN OF SHEETS 3 & 4.

**LEGEND:**

+	SOIL NAIL
⊕	PROOF TESTS
⊗	LOCATION OF VERIFICATION TEST OF SACRIFICIAL SOIL NAIL
2	NAIL ROW
(182.082)	NAIL ELEVATION
181.390	GRADE ELEVATION
L	DRILLED LENGTH OF NAIL (METER)
BAR	STEEL BAR SIZE
Q <sub>d</sub>	ALLOWABLE PULLOUT RESISTANCE (KN/m)

PROJECT: <b>BETHEL</b>	PROJECT NO.: <b>BRF0241 (33) C/2</b>
DESIGN FILE NAME: Q2c180/structures/s02c180soilnail.dgn	
IPARM FILE NAME: s02c180soilnail.plt PLOT DATE: 14-APR-2005	
DESIGNED BY: M. GAGULIC	DRAWN BY: M. GAGULIC
SQUAD LEADER: C.P. WILLIAMS	CHECKED BY: K.M. HIGGINS
SOIL NAIL WALL DETAILS - 1	SHEET: 63 OF 130