

LAMPIRAN

Template Lentur Perimbangan Beton II Elitag 2 - Excel

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S11 =F(Q11>K\$3;N11*E\$3;N11*E\$3*Q11/K\$3)

1 **TAMPLATE MOMEN NOMINAL (Mn) LENTUR MURNI TULANGAN GANDA**

2

3 Mutu baja 4.000,0 kg/cm2 esy = 0,00 m = 13,45 ρmin = 0,350%

4 Mutu beton 350,0 kg/cm2 β1 = 0,80 ρmax = 2,662%

5

6 **BALOK PORTAL GRID 2**

| Tipe Balok | Mult (kg.cm) | Dimensi balok | | | Penulangan tarik | | | Penulangan tekan | | | c (cm) | c max (6000+fy) | es' 0.003*(1-(d'/c)) |
|------------|--------------|---------------|--------|---------|------------------|------|-----------------|------------------|------|------------------|--------|-----------------|----------------------|
| | | b (cm) | d (cm) | d' (cm) | Dia (mm) | n | As actual (cm2) | Dia (mm) | n | As' actual (cm2) | | | |
| B80/100 | 19.981.900,0 | 80 | 100 | 5,3 | 25 | 7 | 34,34 | 25 | 4,0 | 19,63 | 10 | 45,0000 | 0,001390 |
| B80/101 | 83.933.700,0 | 80 | 100 | 5,3 | 25 | 18,0 | 88,31 | 25 | 14,0 | 68,69 | 43,887 | 45,0000 | 0,002641 |

7 8 9 10 11 12 13 14

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S11 =F(Q11>K\$3;N11*E\$3;N11*E\$3*Q11/K\$3)

1

2

3 es>esy

4 As'.fy =>

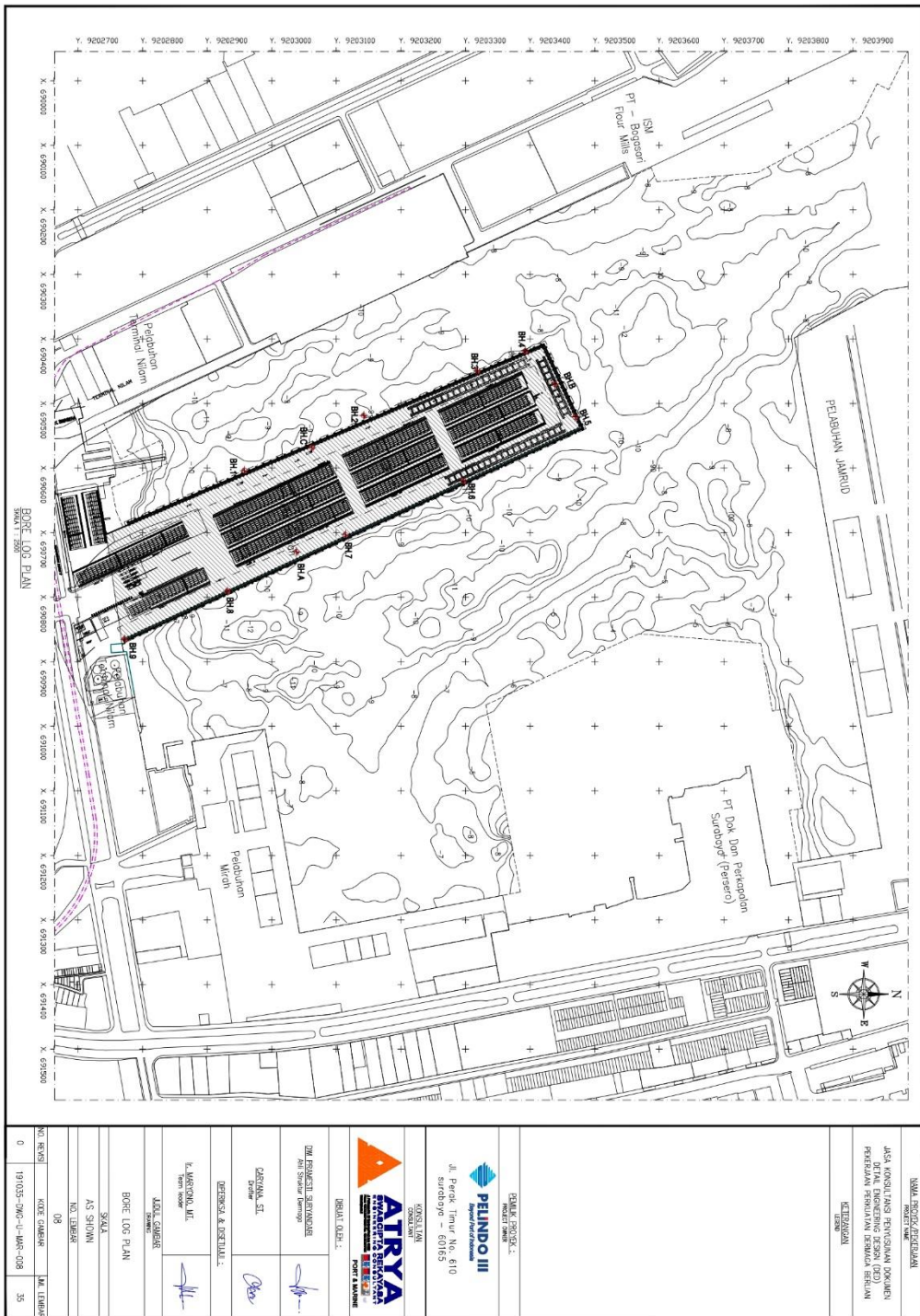
5 As'.fy.es'/esy =>

6

| Cc | Cs | XTOT | I' | Mn | φ | Mn*φ | Chek |
|------------------------|-------------|--------------|--------------|-------------------------------------|------|---------------|------------|
| c*β1*b*(0.85)*fc' (kg) | (kg) | Cc + Cs (kg) | As * fy (kg) | cc*(d-1/2*c+β1)+(cs*(d-d')) (kg.cm) | | (kg.cm) | Mu vs Mn.o |
| 185.247,8 | 54.572,943 | 239.821 | 137.375,00 | 22.974.630,1 | 0,90 | 20.677.167 | ok |
| 830.860,705 | 274.750,000 | 1.105.610,70 | 353.250,00 | 94.615.912,15 | 0,90 | 85.154.320,93 | ok |

7 8 9 10 11 12 13 14

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SKALA: 1:5000
 JASA KONSULTANSI REKONSTRUKSI DAN PERENCANAAN
 KEJAYA ENGINEERING KEBAN (GD)
 PERUSAHAAN TERBUKA BERBAGAS BELIAN
 KEBAYORAN
 USKUN

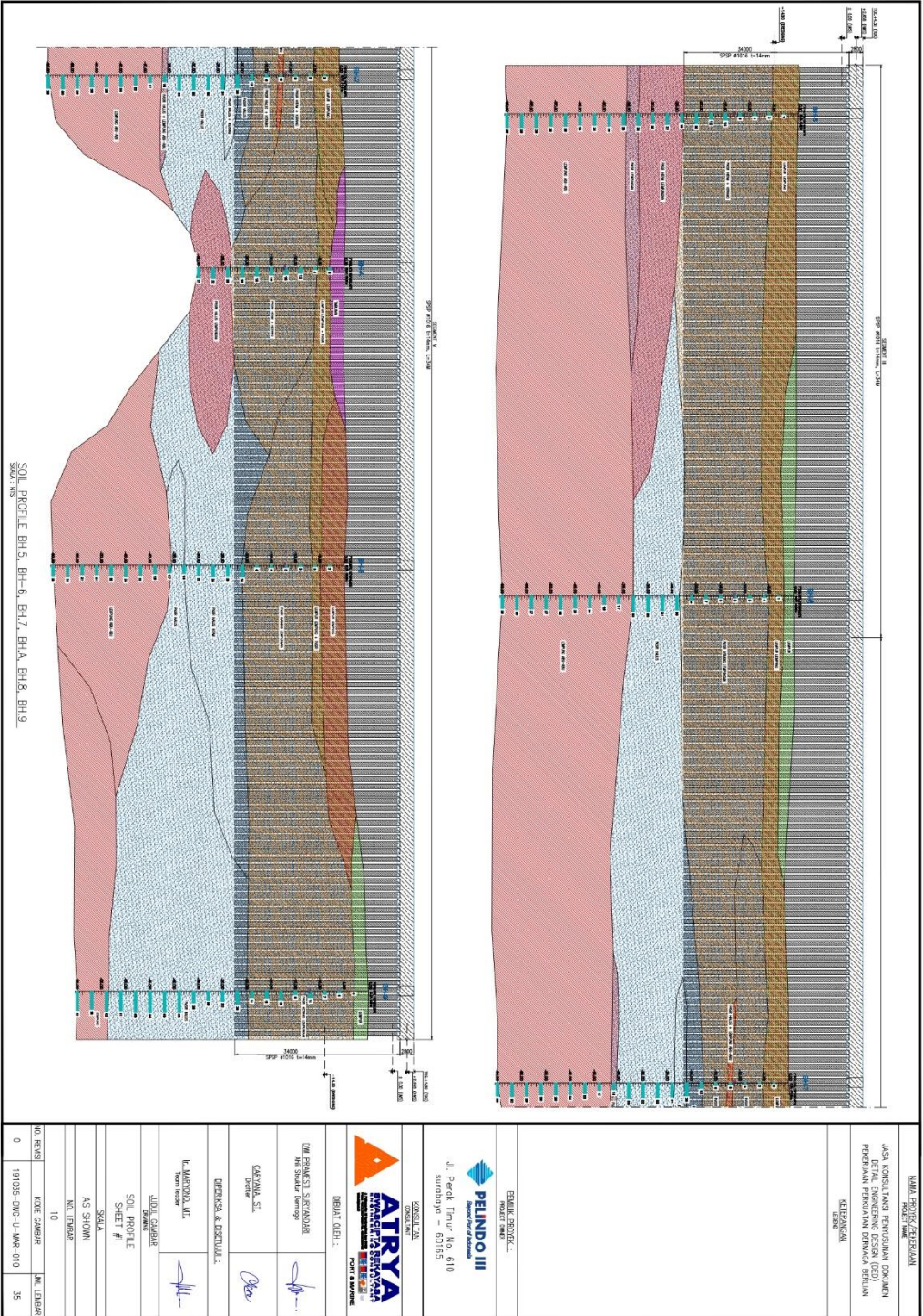
ESKALER ENGINEER
 PEKATI BANGUNAN
PELINDO III
 JI. Perak Timur No. 610
 Surabaya - 60165

KONSULTAN
ATRYA
 PT. ATRIA SURABAYA
 JI. PERAK TIMUR NO. 610
 SURABAYA

DESKRIPSI SEMENTERAK
 PERENCANAAN DAN
 DESAIN
 DESAIN, ST
 DESAIN & ESTIMASI
 E. MARGONO, MT
 NIP. 19500101010000000
 DESAIN
 DESAIN

BORE LOG PLAN
 SKALA
 AS ST/DM
 NO. LEMBAR
 03

| | | |
|------------|----------------------|-----------|
| NO. REVISI | KODE GAMBAR | LM LEMBAR |
| 0 | 19103-200-11-048-008 | 35 |



STATUS PROJEK: PERENCANAAN

JASA KONSULTANSI PERENCANAAN DAN
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 PEKERJAAN PROJEK TUNEL PERMATA BELIAN

KETERANGAN
 (LAIN)

DESKRIPSI PROJEK: ...
 NO. PROJEK: ...

PELINDO III
 Insinyur Profesional

di. Perak Timur No. 610
 Surabaya - 60185

ATRYA
 PT. ATRIA SURVEILLANCE & CONSULTING
 KONTAK & LAYANAN

DESKRIPSI DETAIL:

DIAM. PAKETI SURVEILLANCE
 AND SURVEILLANCE
 (LAIN)

DESKRIPSI DETAIL:
 (LAIN)

L. MURTOYO, JTC
 (LAIN)

SOIL PROFILE
 SHEET #

NO. LEMBAR
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