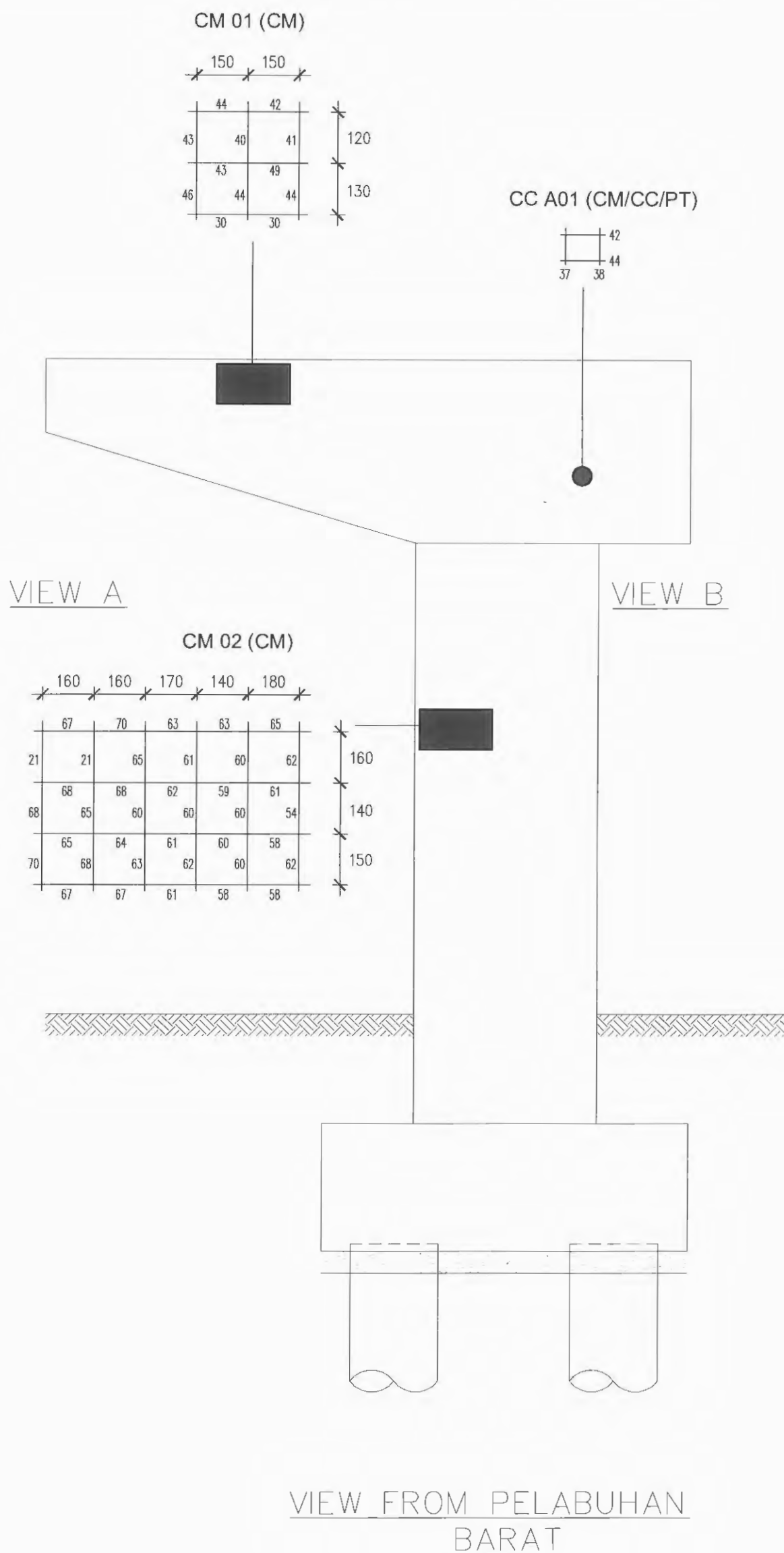




#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

PELANGGAN



KERAJAAN MALAYSIA

PEGAWAI PENGUASA



JABATAN KERJA RAYA

PIHAK PERUNDING



KUMPULAN IKRAMSD N BHD

PROJEK

KERETAKAN TIANG SAMBUT (PIER)  
 DI JAMBATAN SG. AUR FT180/001/40  
 LALUAN PELABUHAN BARAT-  
 PELABUHAN UTARA, DAERAH KLANG,  
 SELANGOR DARUL EHSAN.

TAJUK LUKISAN

RESULTS FOR COVERMETER AND  
 CONCRETE CRACK DEPTH AT  
 PIER P-10A

SKALA

1:100

DILUKIS OLEH

Shafiq

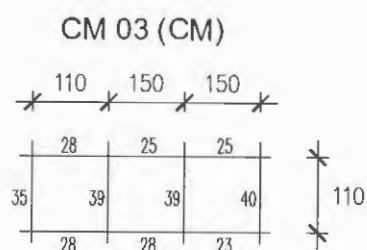
DISEMAK OLEH

Nuryasmin

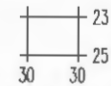
TARIKH

July 2011

NO LUKISAN :

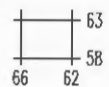


CC B01 (CM/CC)



Average Crack Depth = 30mm  
Core Length = 140mm

CC B02 (CM/CC)



Average Crack Depth = 25mm  
Core Length = 155mm

↑ BELOW

VIEW B

#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

PELANGGAN



KERAJAAN MALAYSIA

PEGAWAI PENGUASA



JABATAN KERJA RAYA

PIHAK PERUNDING



KUMPULAN IKRAM SDN BHD

PROJEK

KERETAKAN TIANG SAMBUT (PIER)  
DI JAMBATAN SG. AUR FT180/001/40  
LALUAN PELABUHAN BARAT-  
PELABUHAN UTARA, DAERAH KLANG,  
SELANGOR DARUL EHSAN.

TAJUK LUKISAN

RESULTS FOR COVERMETER AND  
CONCRETE CRACK DEPTH AT  
PIER P-10A

SKALA

1:100

DILUKIS OLEH

Shafiq

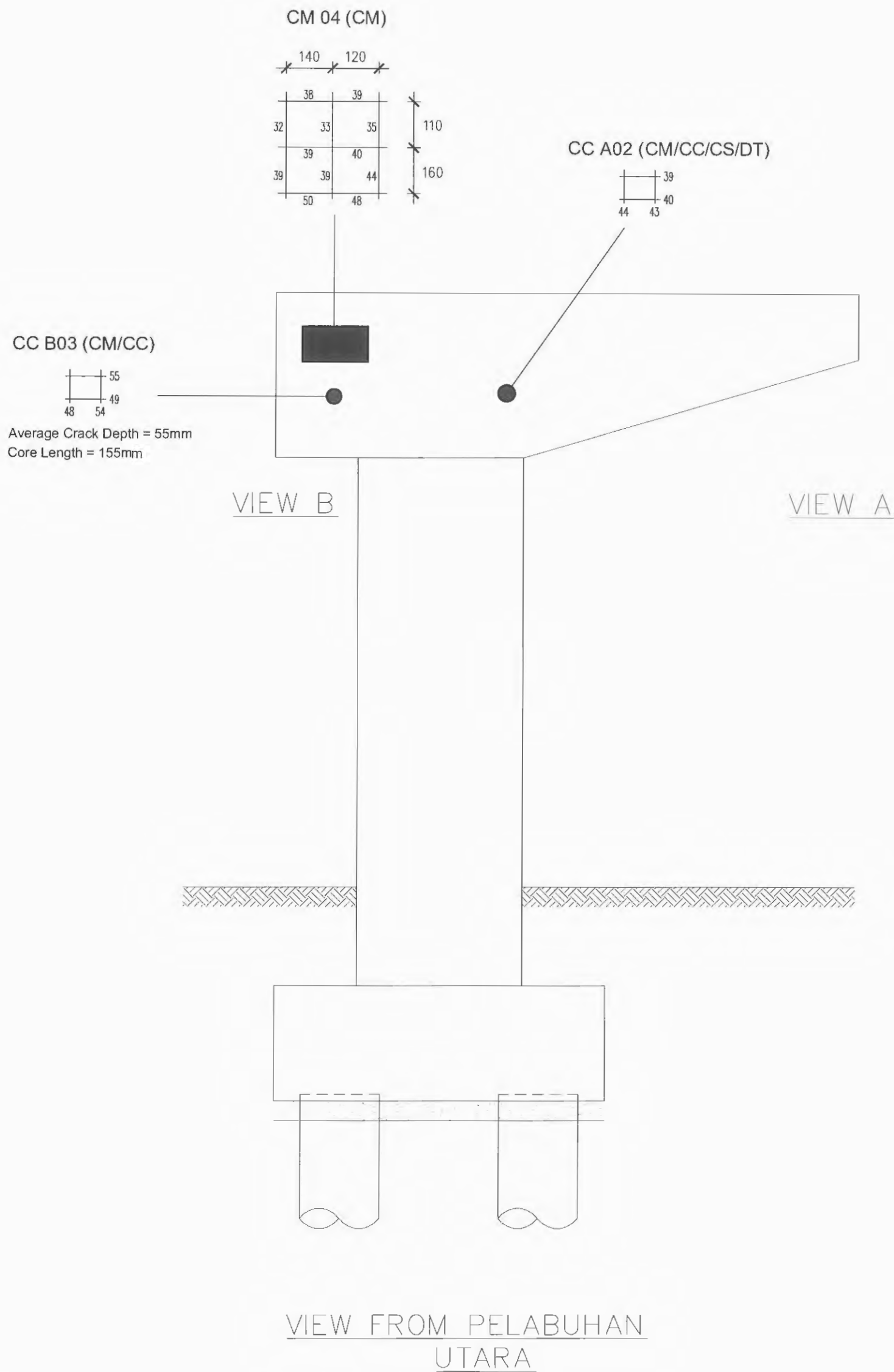
DISEMAK OLEH

Nuryasmin

TARIKH

July 2011

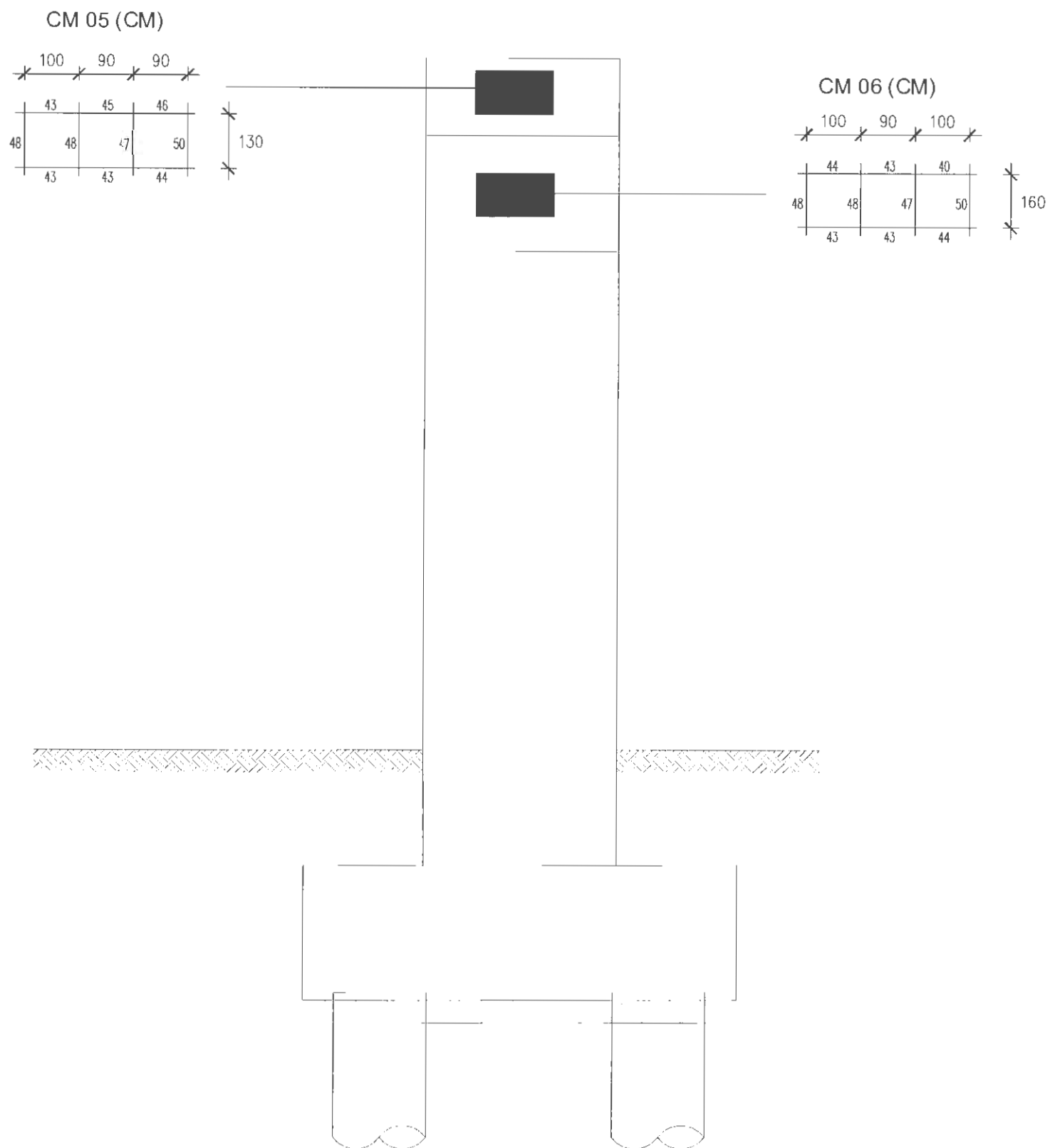
NO LUKISAN :



#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-10A | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |

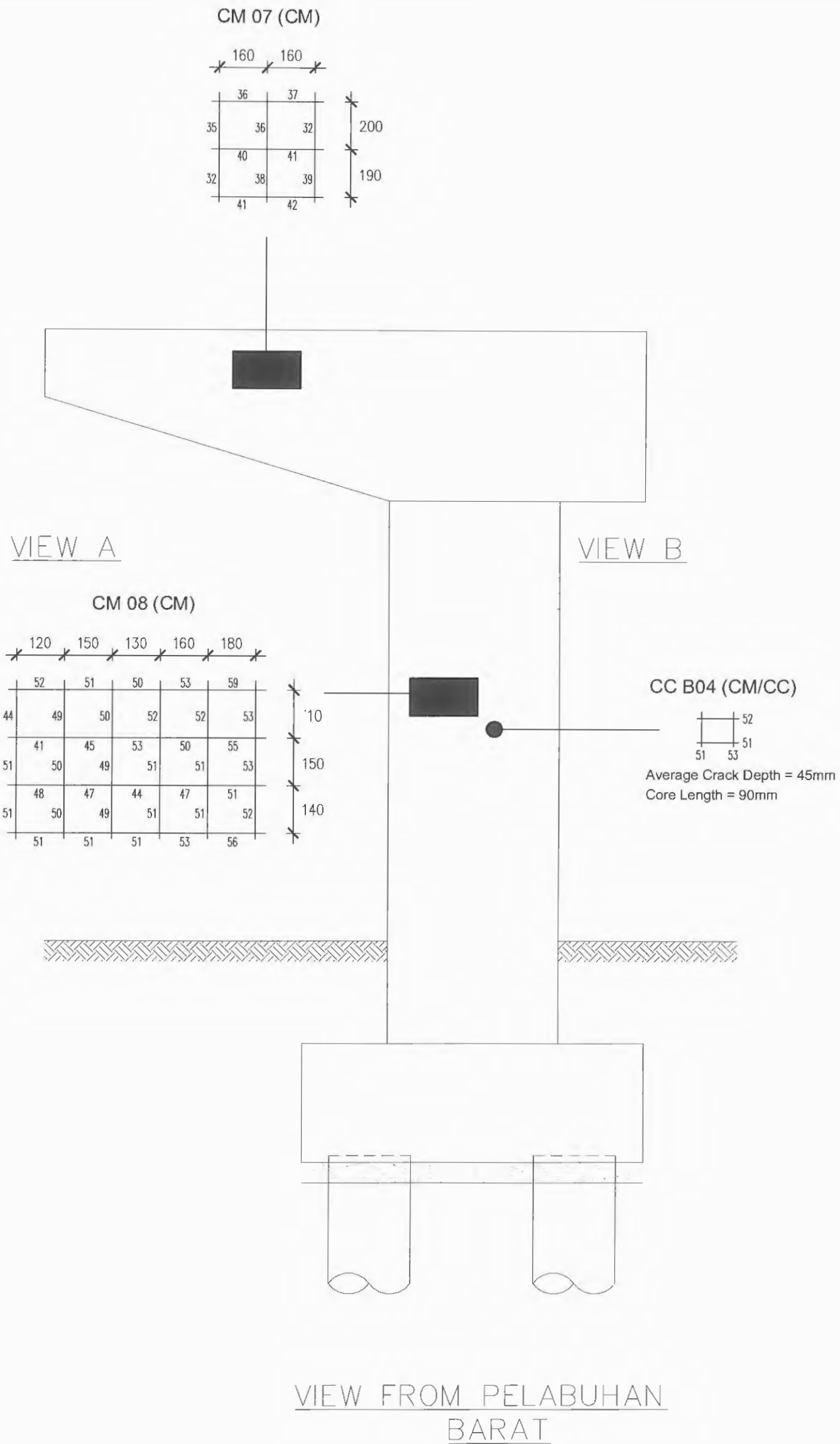


VII W A

#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

|                                                                                                                       |                                                                                                                                |                                                                                                                                  |                                                                                                                                                                   |                                                                                      |                                                                 |                                           |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|
| PELANGGAN<br><br>KERAJAAN MALAYSIA | PEGAWAI PENGUASA<br><br>JABATAN KIERJA RAYA | PIHAK PERUNDING<br><br>KUMPULAN IKRAM SDN BHD | PROJEK<br>KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | TAJUK LUKISAN<br>RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-10A | SKALA<br>DILUKIS OLEH<br>DISEMAK OLEH<br>TARIKH<br>NO LUKISAN : | 1:100<br>Shafiq<br>Nuryasmin<br>July 2011 |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|



#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

PELANGGAN



KERAJAAN MALAYSIA

PEGAWAI PENGUASA



JABATAN KERJA RAYA

PIHAK PERUNDING



KUMPULAN IKRAM SDN BHD

PROJEK

KERETAKAN TIANG SAMBUT (PIER)  
DI JAMBATAN SG. AUR FT180/001/40  
LALUAN PELABUHAN BARAT-  
PELABUHAN UTARA, DAERAH KLANG,  
SELANGOR DARUL EHSAN.

TAJUK LUKISAN

RESULTS FOR COVERMETER AND  
CONCRETE CRACK DEPTH AT  
PIER P-11A

SKALA

1:100

DILUKIS OLEH

Shafiq

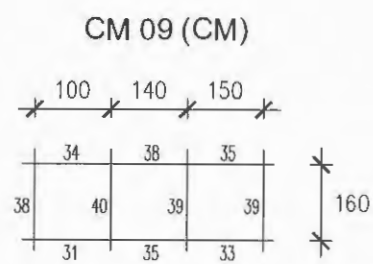
DISEMAK OLEH

Nuryasmin

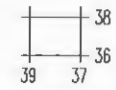
TARIKH

July 2011

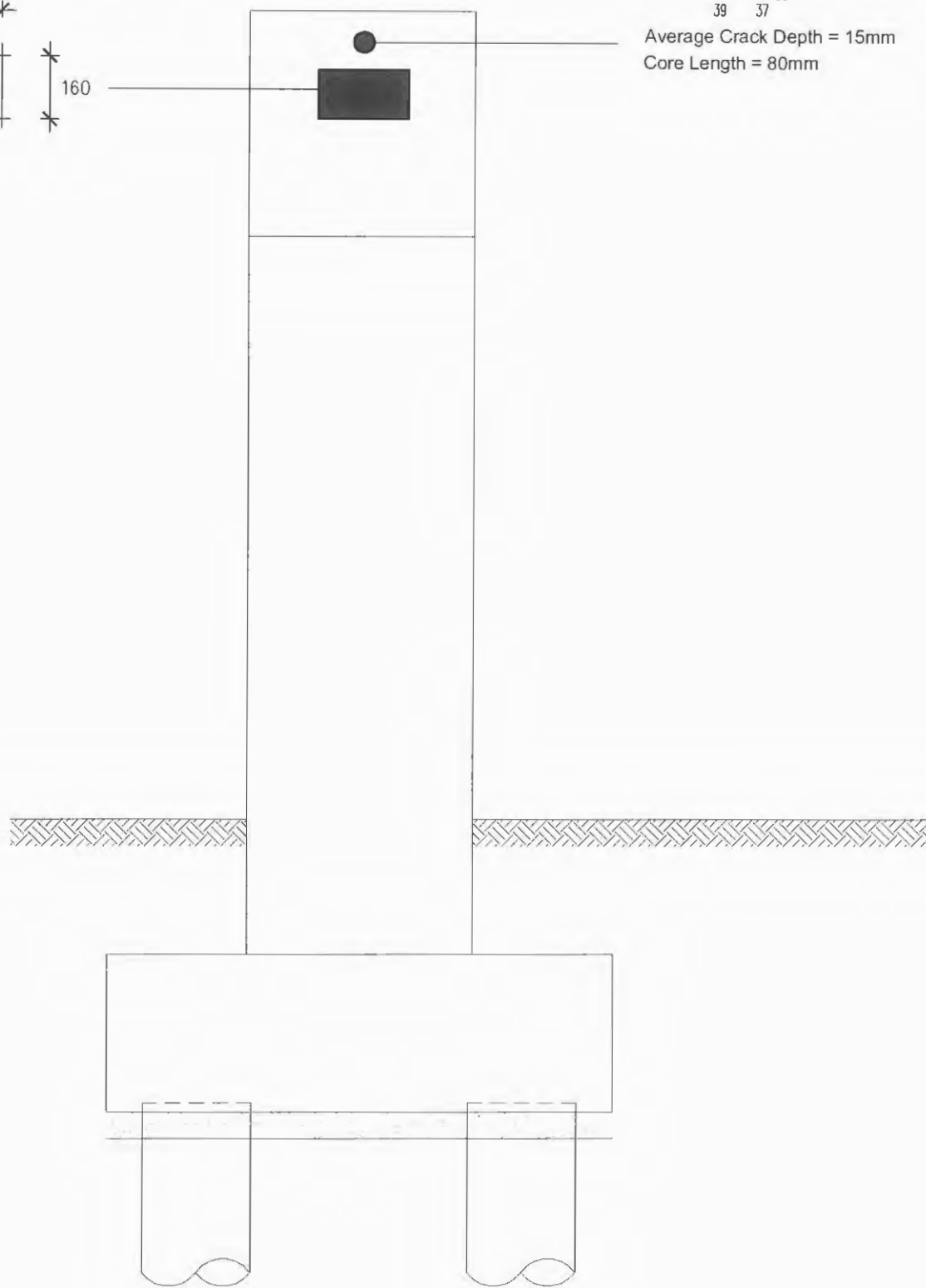
NO LUKISAN :



CC B05 (CM/CC)



Average Crack Depth = 15mm  
Core Length = 80mm



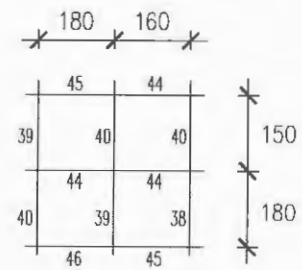
VIEW B

### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-11A | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |

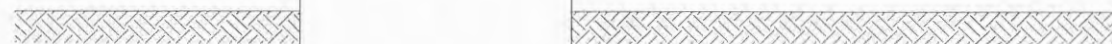
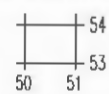
CM 10 (CM)



VIEW B

VIEW A

CC A03 (CM/CC/CS/DT)



VIEW FROM PELABUHAN  
UTARA

#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

PELANGGAN



KERAJAAN MALAYSIA

PEGAWAI PENGUASA



JABATAN KERJA RAYA

PIHAK PERUNDING



KUMPULAN IKRAM SDN BHD

PROJEK

KERETAKAN TIANG SAMBUT (PIER)  
DI JAMBATAN SG. AUR FT180/001/40  
LALUAN PELABUHAN BARAT-  
PELABUHAN UTARA, DAERAH KLANG,  
SELANGOR DARUL EHSAN.

TAJUK LUKISAN

RESULTS FOR COVERMETER AND  
CONCRETE CRACK DEPTH AT  
PIER P-11A

SKALA

1:100

DILUKIS OLEH

Shafiq

DISEMAK OLEH

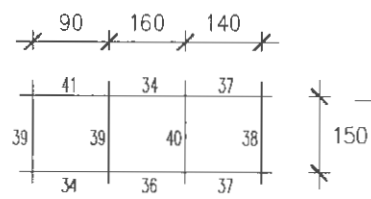
Nuryasmin

TARIKH

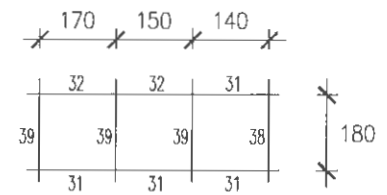
July 2011

NO LUKISAN :

CM 11 (CM)



CM 12 (CM)

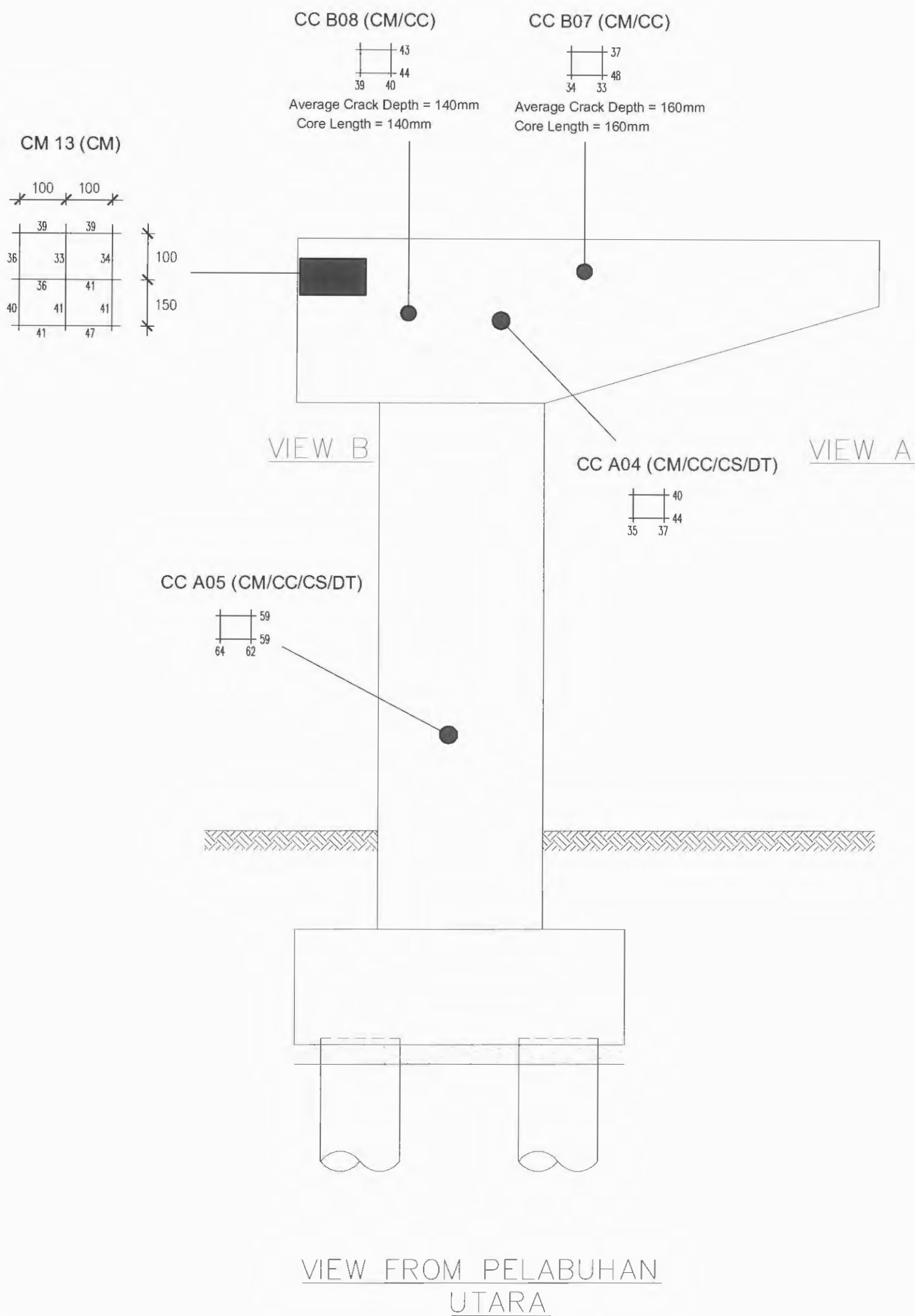


VIEW A

Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

|                                                                                                                       |                                                                                                                               |                                                                                                                                  |                                                                                                                                                                   |                                                                                      |                                                                 |                                           |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|
| PELANGGAN<br><br>KERAJAAN MALAYSIA | PEGAWAI PENGUASA<br><br>JABATAN KERJA RAYA | PIHAK PERUNDING<br><br>KUMPULAN IKRAM SDN BHD | PROJEK<br>KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | TAJUK LUKISAN<br>RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-11A | SKALA<br>DILUKIS OLEH<br>DISEMAK OLEH<br>TARIKH<br>NO LUKISAN : | 1:100<br>Shafiq<br>Nuryasmin<br>July 2011 |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|



#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

PELANGGAN



KERAJAAN MALAYSIA

PEGAWAI PENGUASA



JABATAN KERJA RAYA

PIHAK PERUNDING



KUMPULAN IKRAM SDN BHD

PROJEK

KERETAKAN TIANG SAMBUT (PIER)  
DI JAMBATAN SG. AUR FT180/001/40  
LALUAN PELABUHAN BARAT-  
PELABUHAN UTARA, DAERAH KLANG,  
SELANGOR DARUL EHSAN.

TAJUK LUKISAN

RESULTS FOR COVERMETER AND  
CONCRETE CRACK DEPTH AT  
PIER P-12A

SKALA

1:100

DILUKIS OLEH

Shafiq

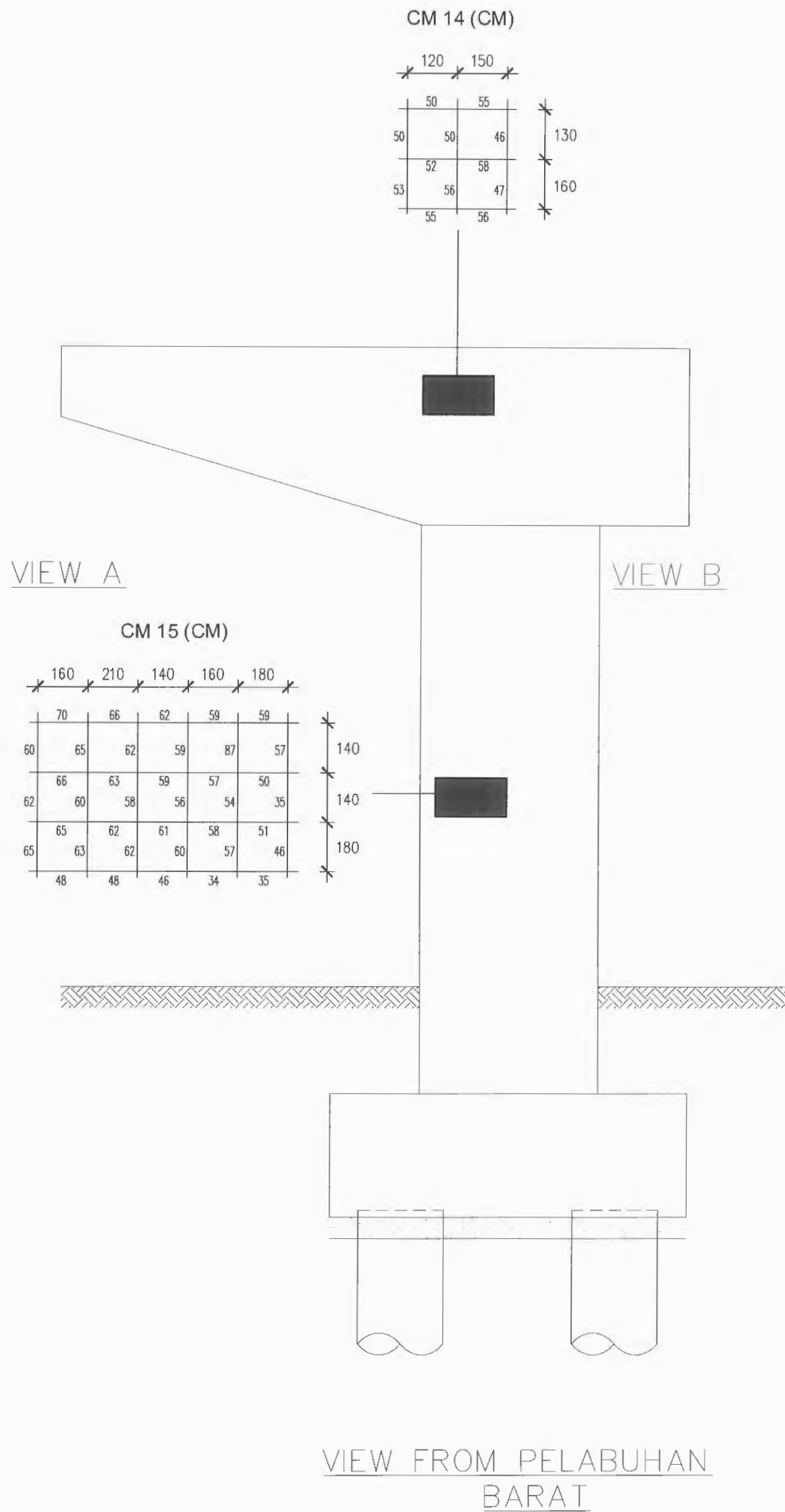
DISEMAK OLEH

Nuryasmin

TARIKH

July 2011

NO LUKISAN :



#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

PELANGGAN



KERAJAAN MALAYSIA

PEGAWAI PENGUASA



JABATAN KERJA RAYA

PIHAK PERUNDING



KUMPULAN IKRAM SDN BHD

PROJEK

KERETAKAN TIANG SAMBUT (PIER)  
 DI JAMBATAN SG. AUR FT180/001/40  
 LALUAN PELABUHAN BARAT-  
 PELABUHAN UTARA, DAERAH KLANG,  
 SELANGOR DARUL EHSAN.

TAJUK LUKISAN

RESULTS FOR COVERMETER AND  
 CONCRETE CRACK DEPTH AT  
 PIER P-12A

SKALA

1:100

DILUKIS OLEH

Shafiq

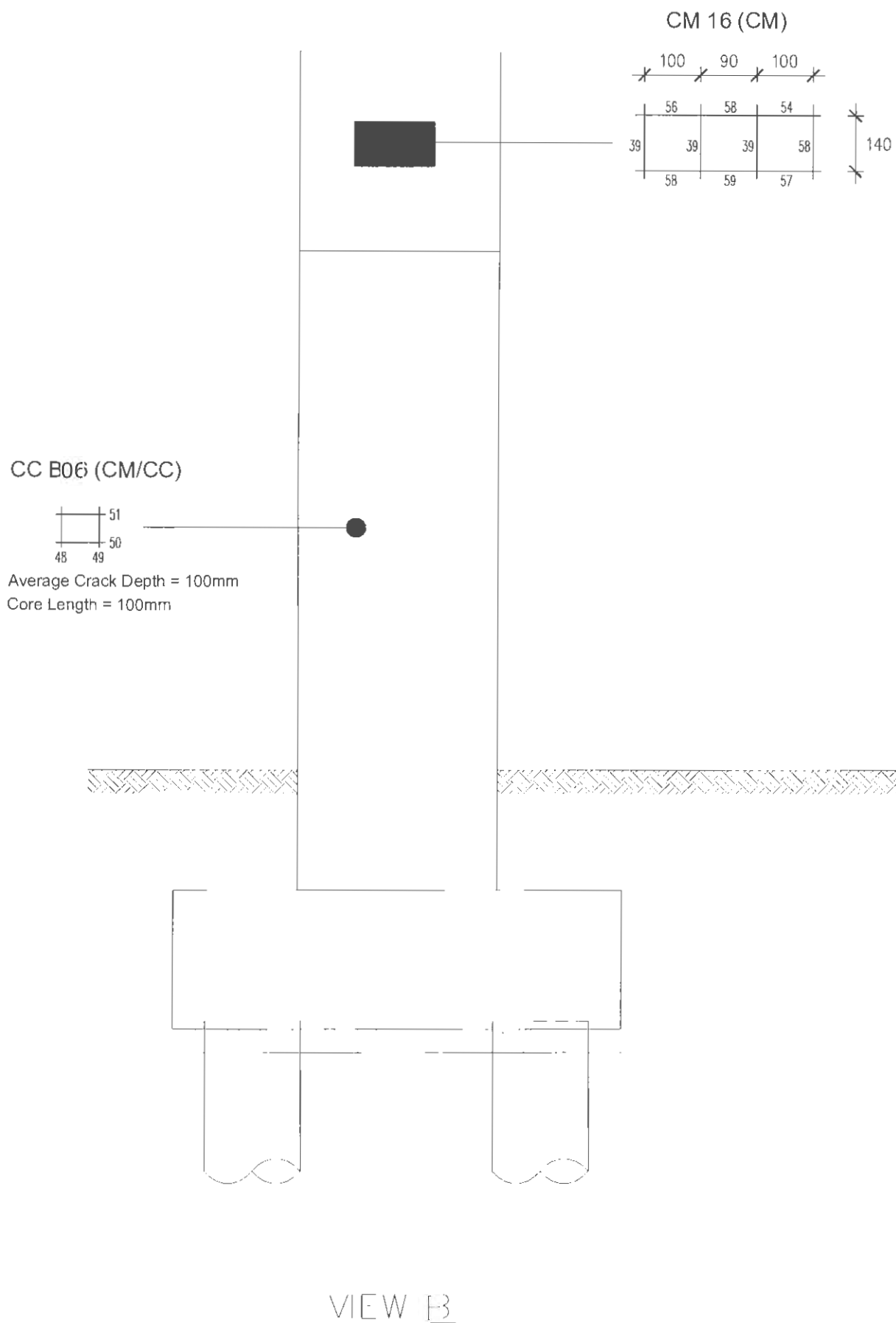
DISEMAK OLEH

Nuryasmin

TARIKH

July 2011

NO LUKISAN :



#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

PELANGGAN



KERAJAAN MALAYSIA

PEGAWAI/PENGUASA



JABATAN KERJA RAYA

PIHAK PERUNDING



KUMPULAN IKRAM SDN BHD

PROJEK

KERETA-KAN TIANG SAMBUT (PIER)  
DI JAMBATAN SG. AUR FT180/001/40  
LALUAN PELABUHAN BARAT-  
PELABUHAN UTARA, DAERAH KLANG,  
SELANGOR DARUL EHSAN.

TAJUK LUKISAN

RESULTS FOR COVERMETER AND  
CONCRETE CRACK DEPTH AT  
PIER P-12A

SKALA

DILUKIS OLEH

DISEMAK OLEH

TARIKH

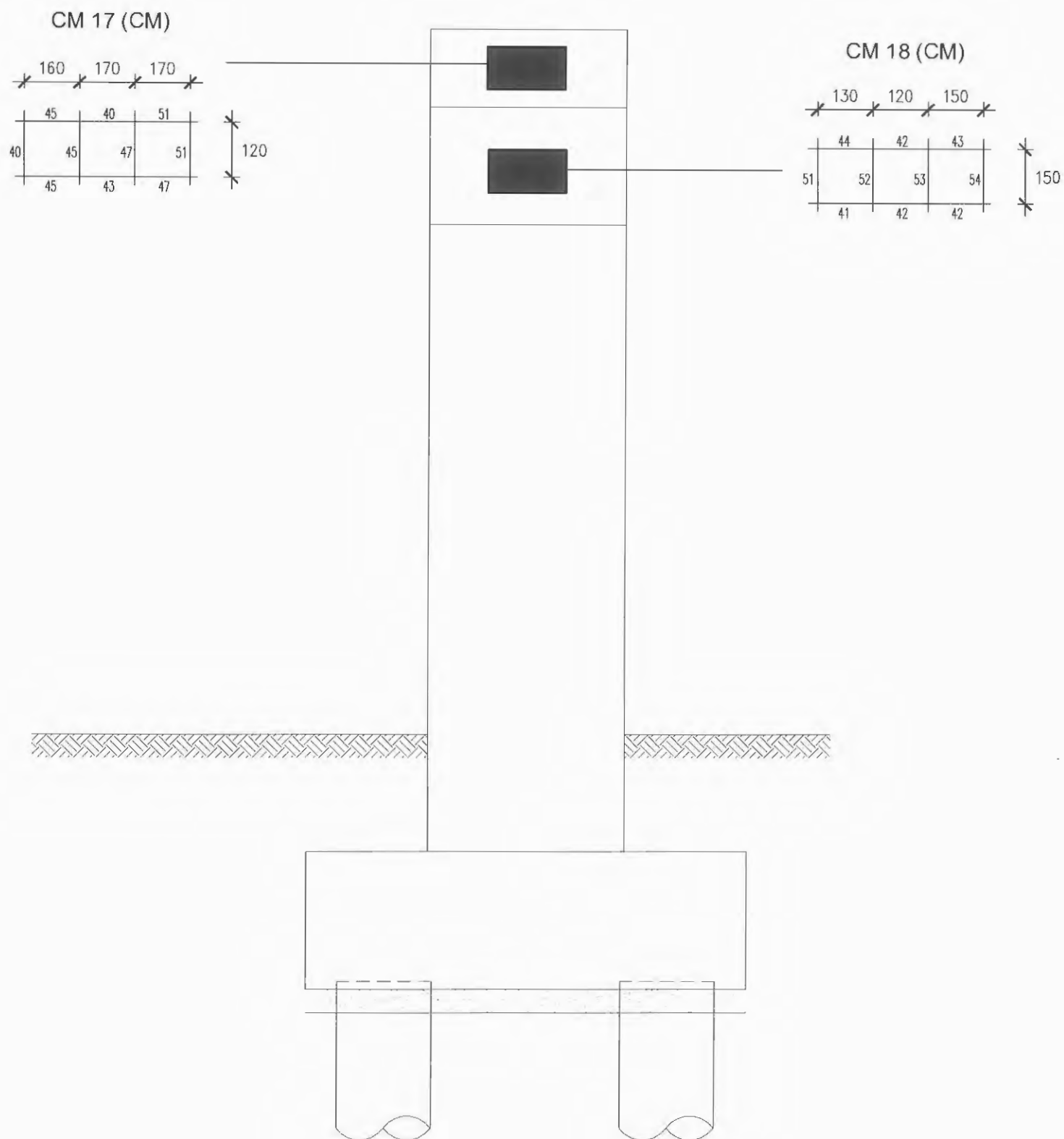
NO LUKISAN :

1:100

Shafiq

Nuryasmin

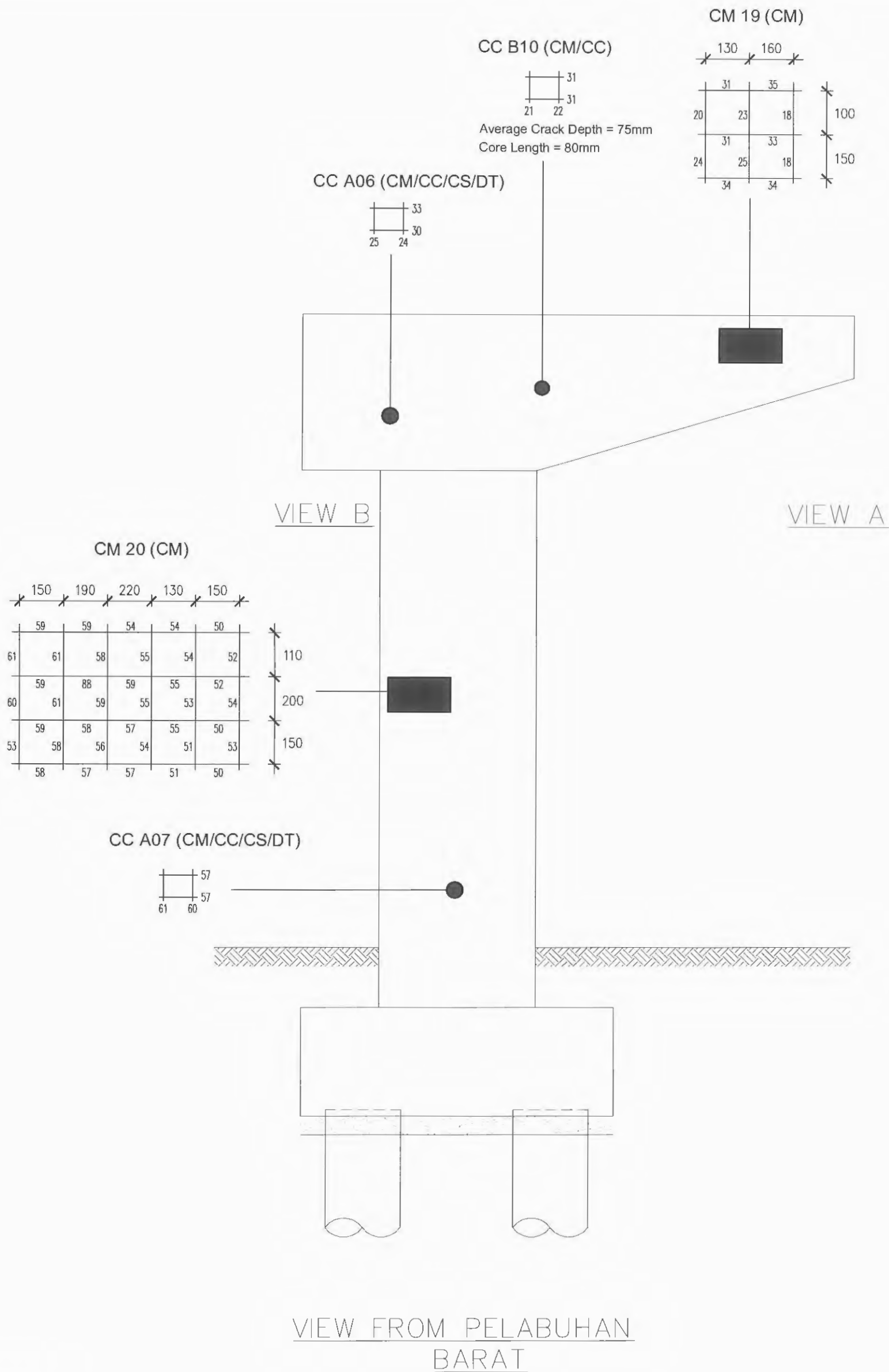
July 2011



#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-12A | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |

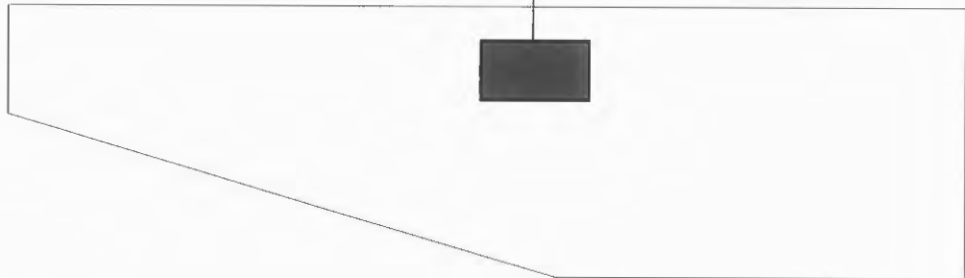
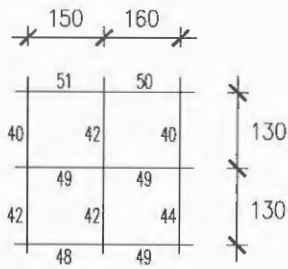


#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

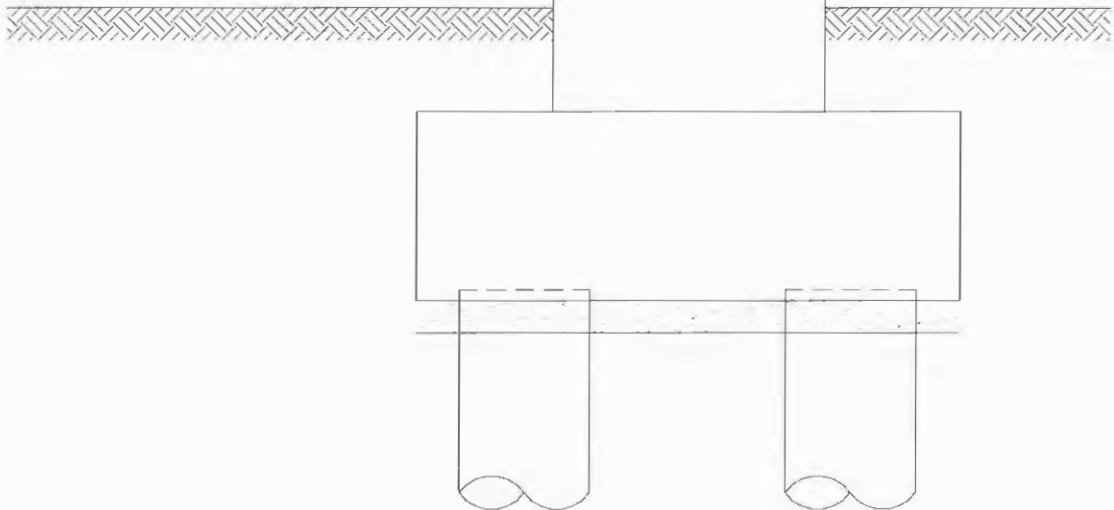
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-13B | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |

CM 21 (CM)



VIEW A

VIEW B

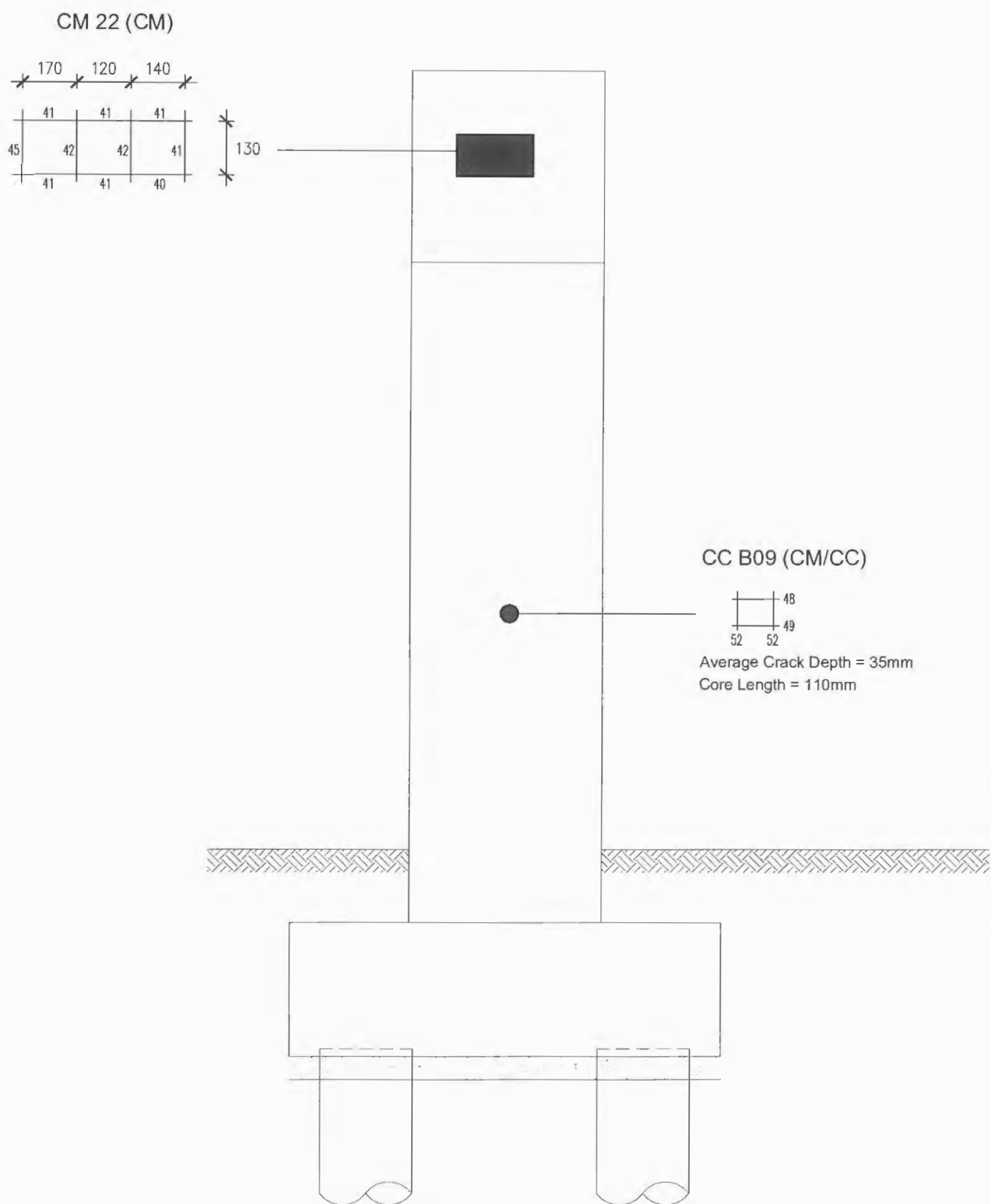


VIEW FROM PELABUHAN  
UTARA

Legend

- CS : Concrete Strength Test
- DT : Density Test
- PT : Petrographic Examination
- CM : Cover Meter
- CC : Concrete Coring
- GPR : Ground Penetration Radar

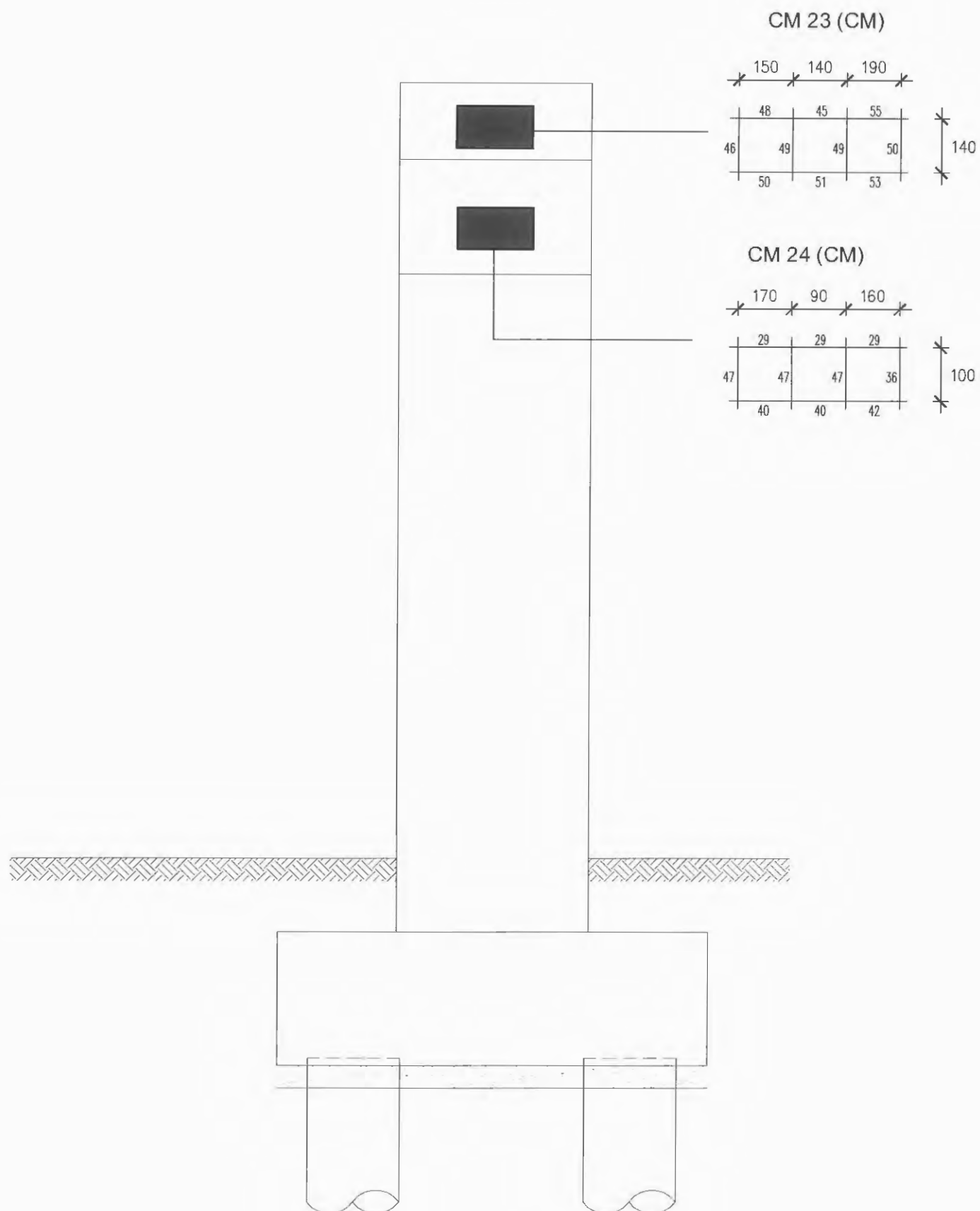
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-13B | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |



#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

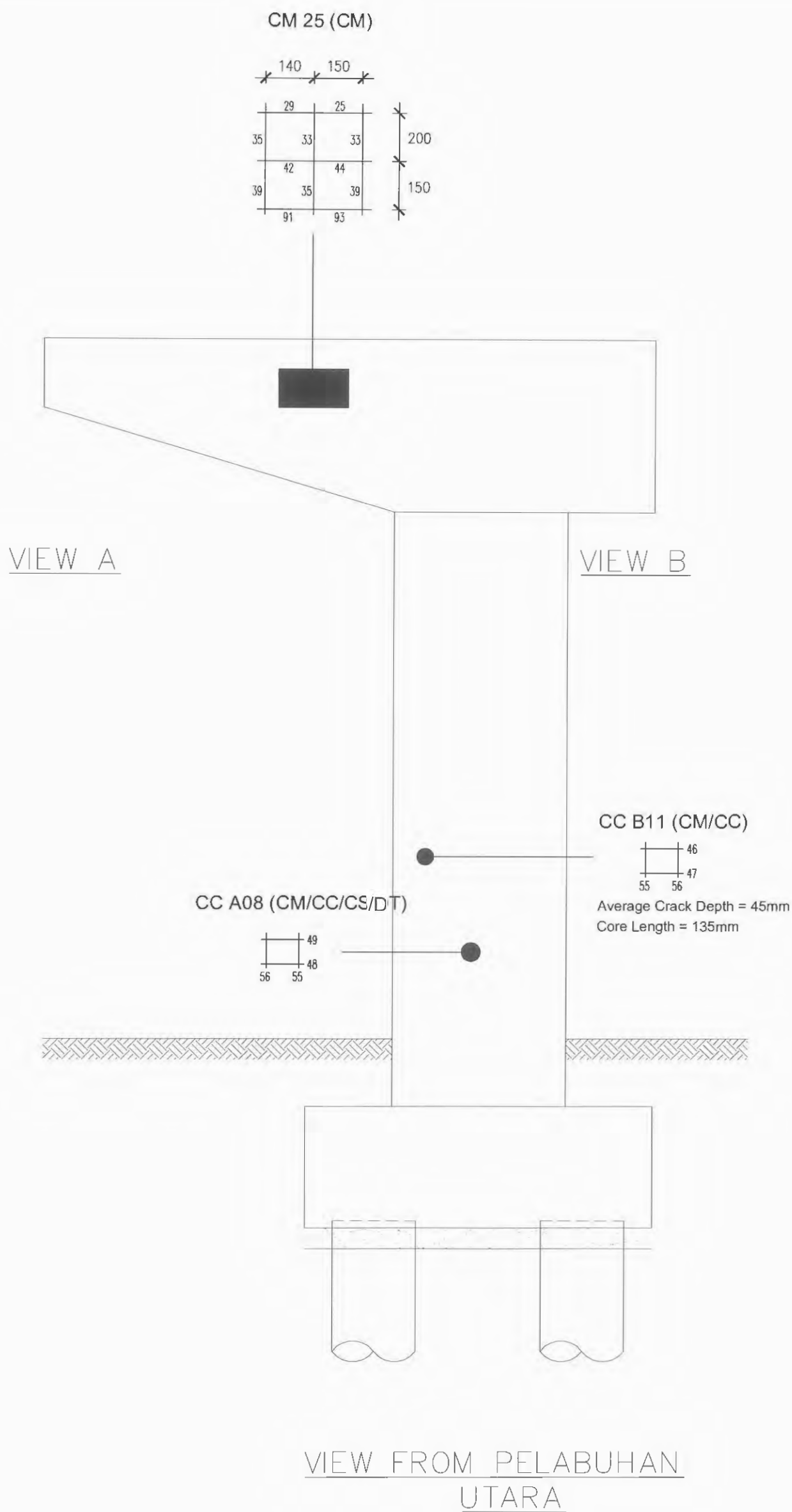
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-13B | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |



#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

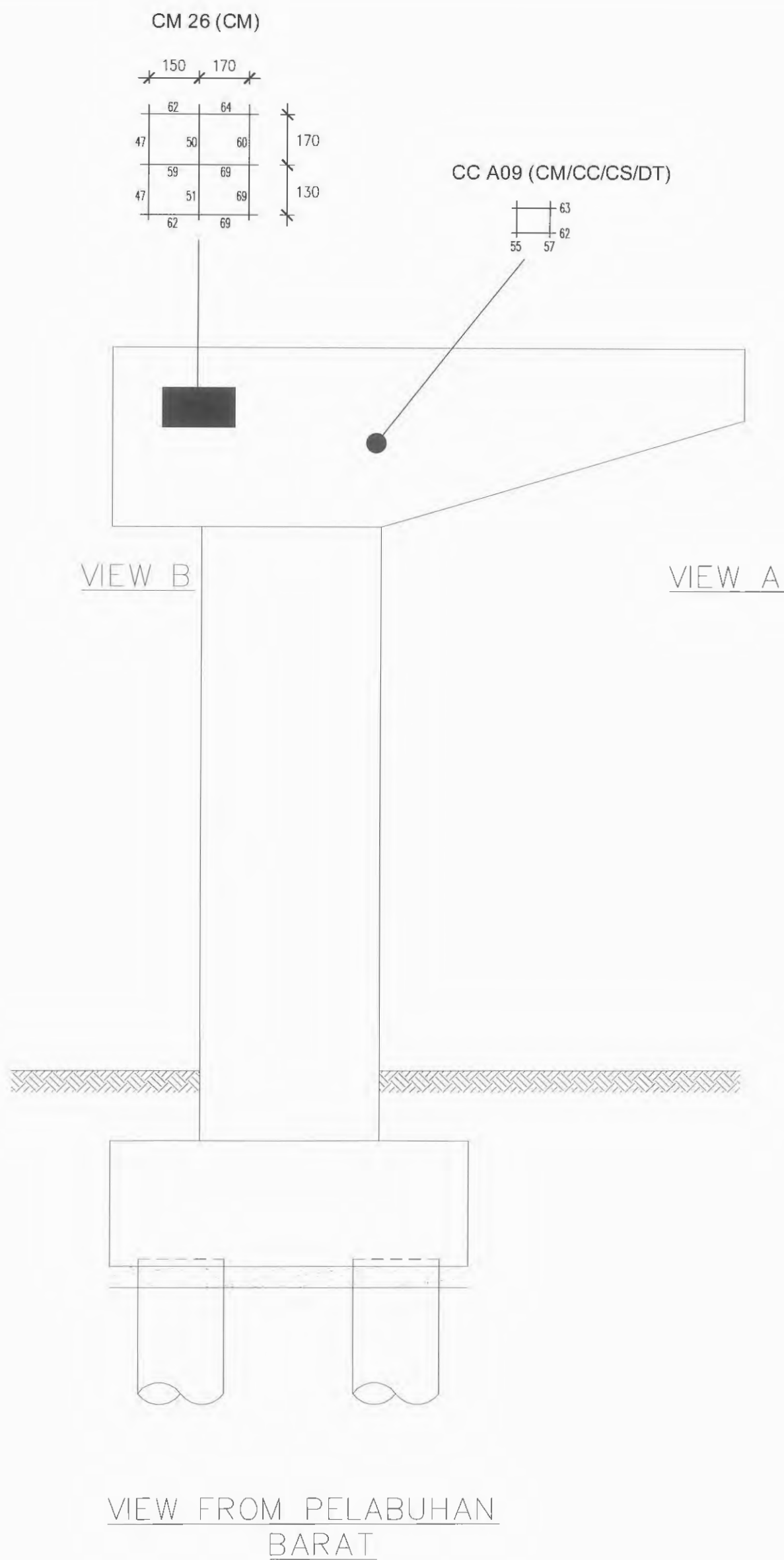
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-13B | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |



#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

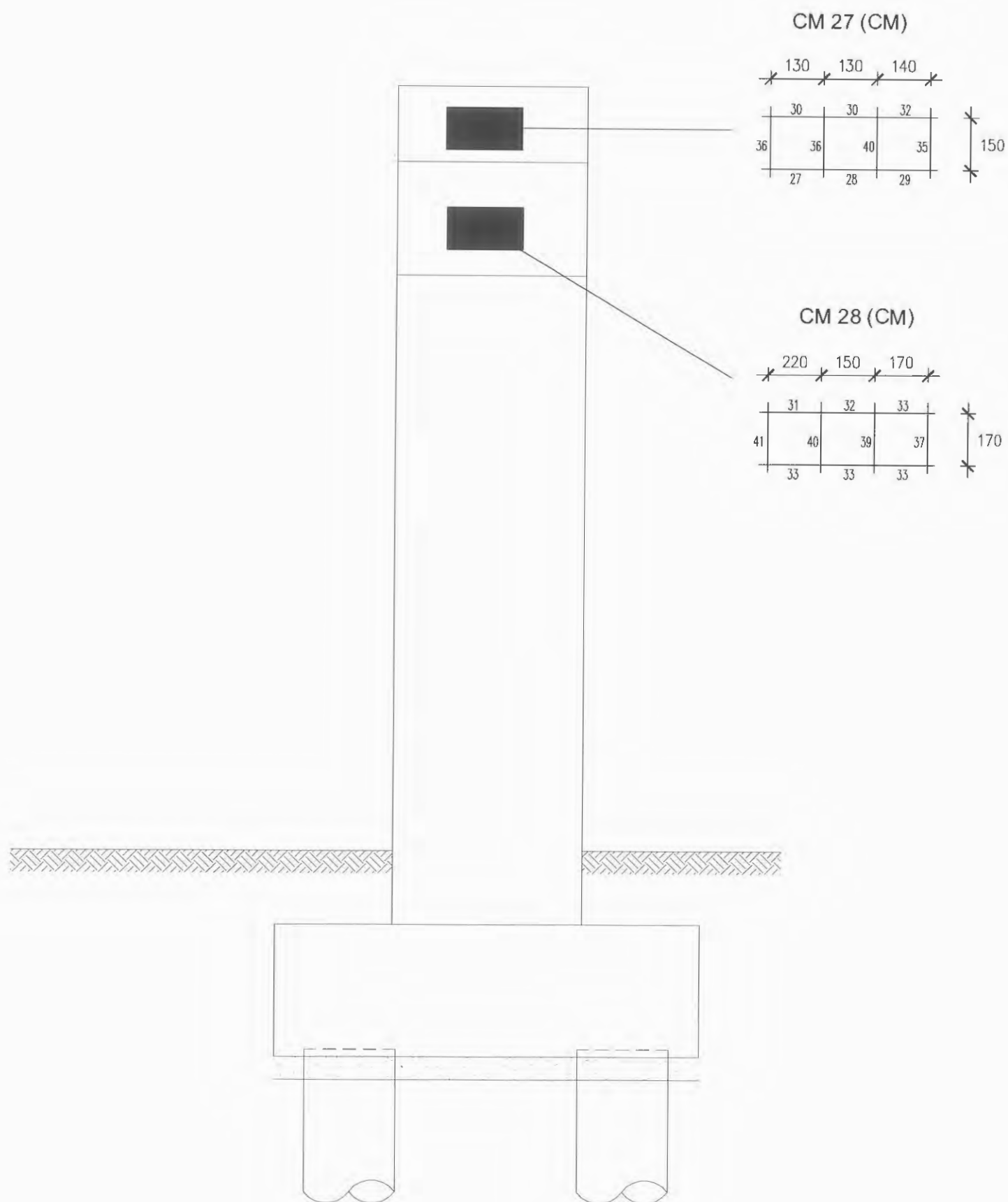
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-14B | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |



#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

|                                                                                                                       |                                                                                                                               |                                                                                                                                  |                                                                                                                                                                   |                                                                                      |                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| PELANGGAN<br><br>KERAJAAN MALAYSIA | PEGAWAI/PENGUASA<br><br>JABATAN KERJA RAYA | PIHAK PERUNDING<br><br>KUMPULAN IKRAM SDN BHD | PROJEK<br>KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | TAJUK LUKISAN<br>RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-14B | SKALA<br>1:100<br>DILUKIS OLEH<br>Shafiq<br>DISEMAK OLEH<br>Nuryasmin<br>TARIKH<br>July 2011<br>NO LUKISAN : |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|

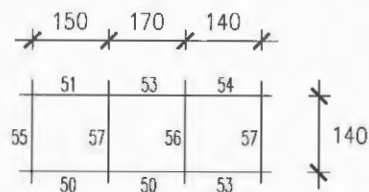


#### Legend

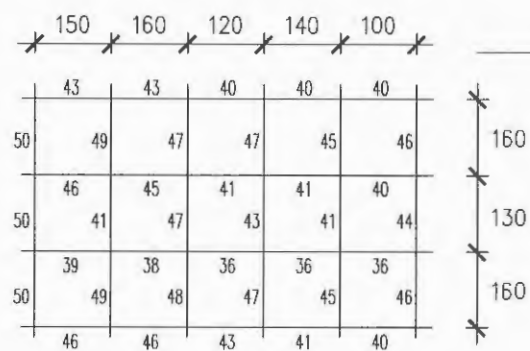
CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

|                                                                                                                       |                                                                                                                               |                                                                                                                                  |                                                                                                                                                                   |                                                                                      |                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| PELANGGAN<br><br>KERAJAAN MALAYSIA | PEGAWAI PENGUASA<br><br>JABATAN KERJA RAYA | PIHAK PERUNDING<br><br>KUMPULAN IKRAM SDN BHD | PROJEK<br>KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | TAJUK LUKISAN<br>RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-14B | SKALA<br>1:100<br>DILUKIS OLEH<br>Shafiq<br>DISEMAK OLEH<br>Nuryasmin<br>TARIKH<br>July 2011<br>NO LUKISAN : |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|

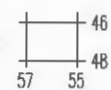
# CM 29 (CM)



# CM 30 (CM)



# CC B12 (CM/CC)



Average Crack Depth = 100mm  
Core Length = 100mm

# VIEW B

## Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

PELANGGAN



KERAJAAN MALAYSIA

PEGAWAI PENGUASA



JABATAN KERJA RAYA

PIHAK PERUNDING



KUMPULAN IKRAM SDN BHD

PROJEK

KERETAKAN TIANG SAMBUT (PIER)  
DI JAMBATAN SG. AUR FT180/001/40  
LALUAN PELABUHAN BARAT-  
PELABUHAN UTARA, DAERAH KLANG,  
SELANGOR DARUL EHSAN.

TAJUK LUKISAN

RESULTS FOR COVERMETER AND  
CONCRETE CRACK DEPTH AT  
PIER P-14B

SKALA

1:100

DILUKIS OLEH

Shafiq

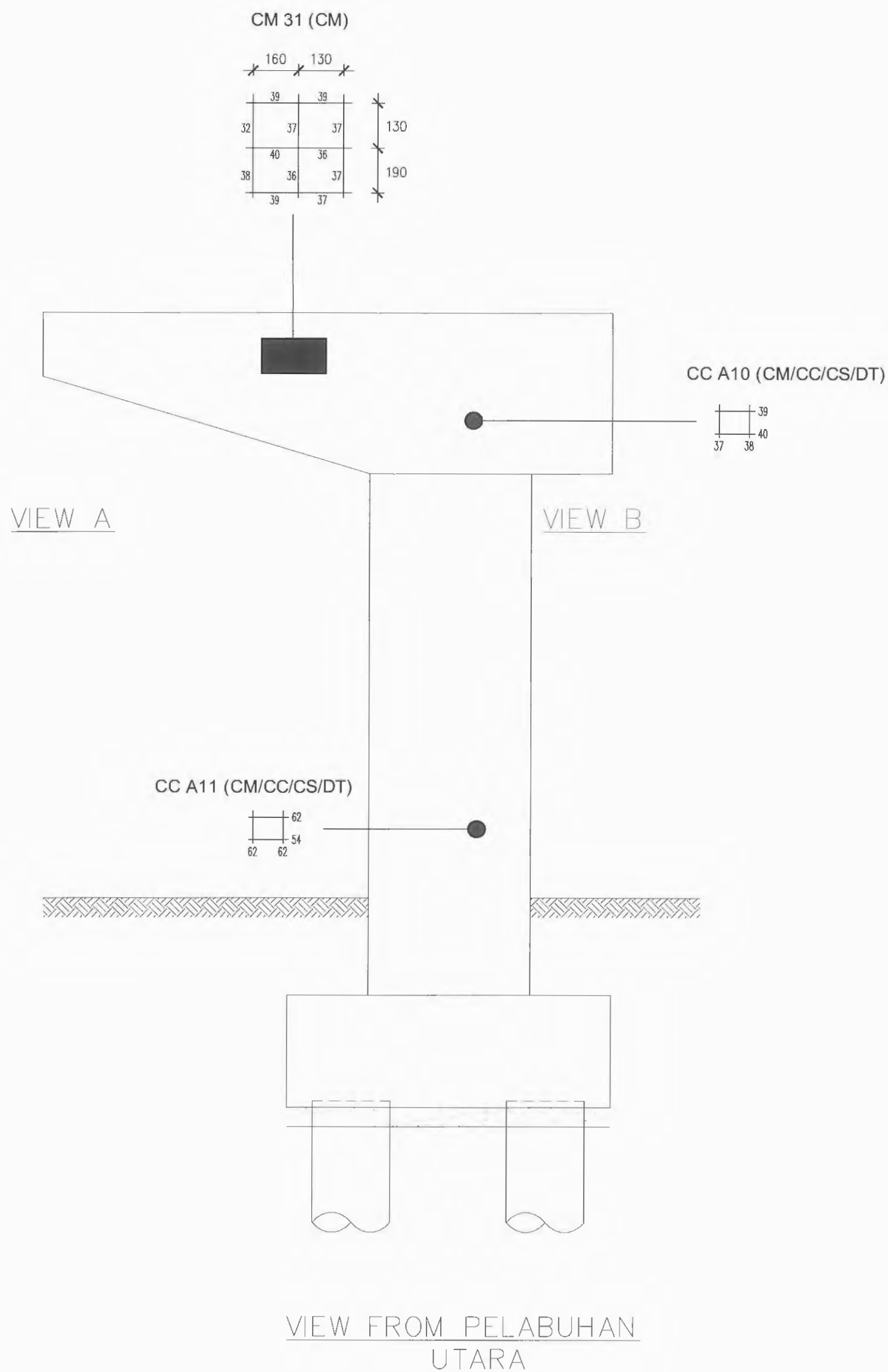
DISEMAK OLEH

Nuryasmin

TARIKH

July 2011

NO LUKISAN :

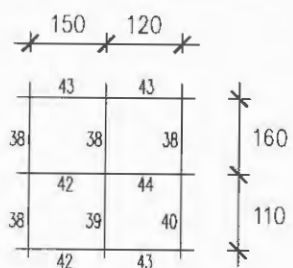


#### Legend

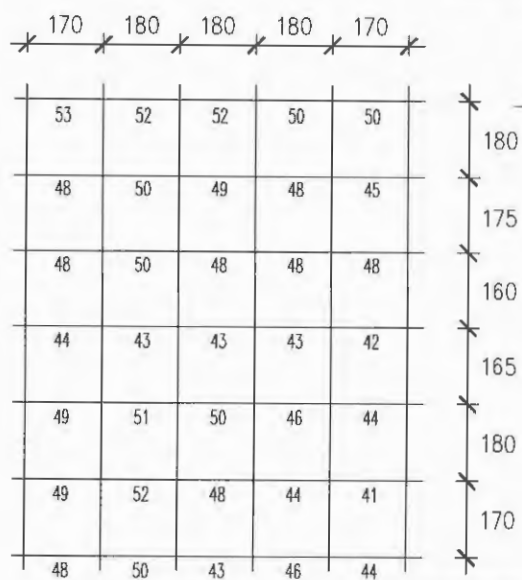
CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-15B | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |

CM 32 (CM)

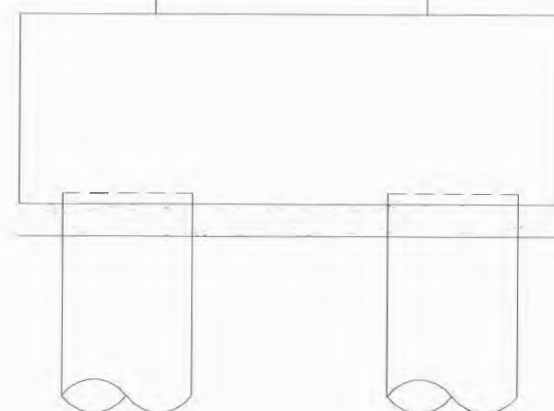


CM 33 (CM)



VIEW B

VIEW A

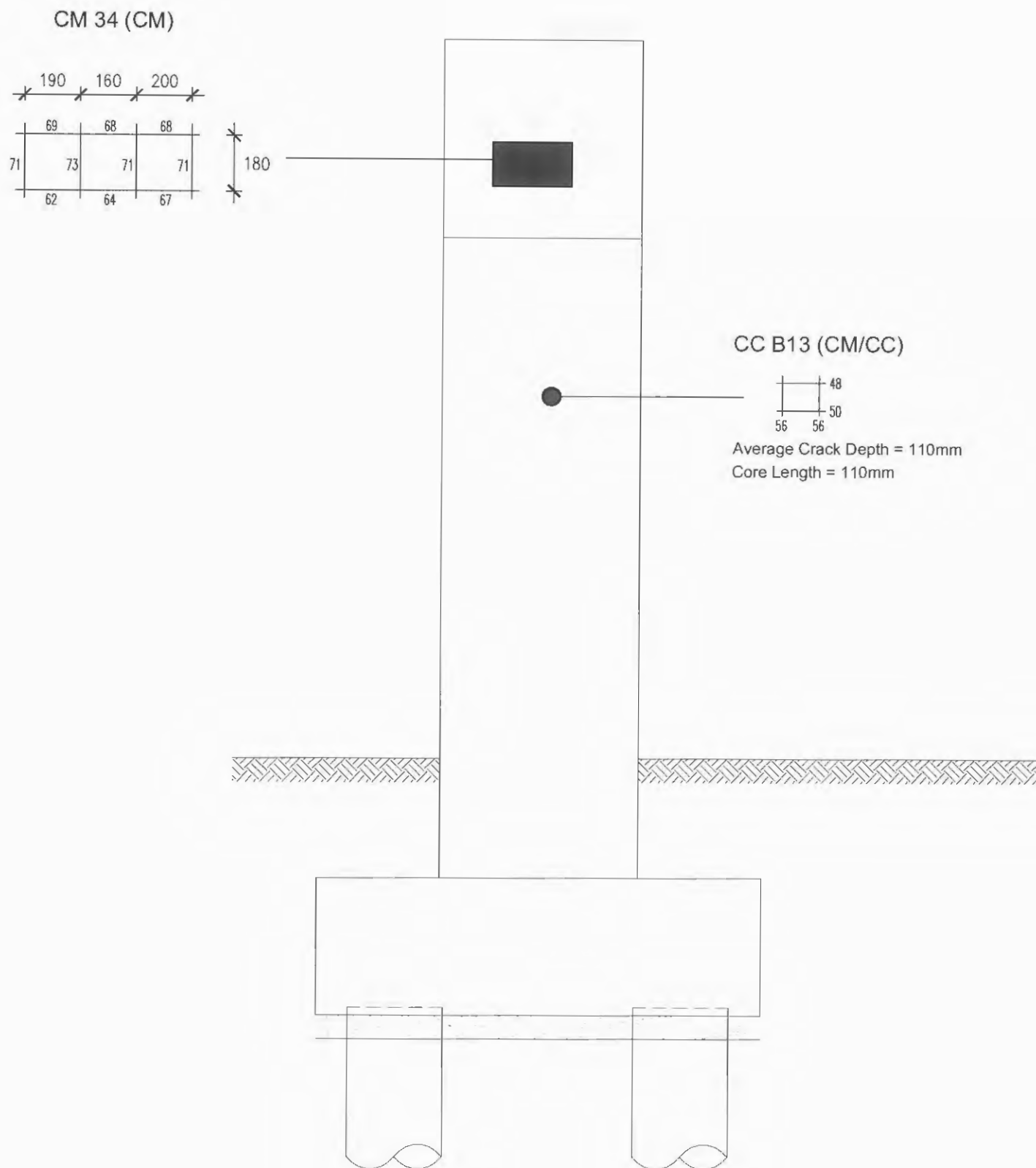


VIEW FROM PELABUHAN  
BARAT

#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

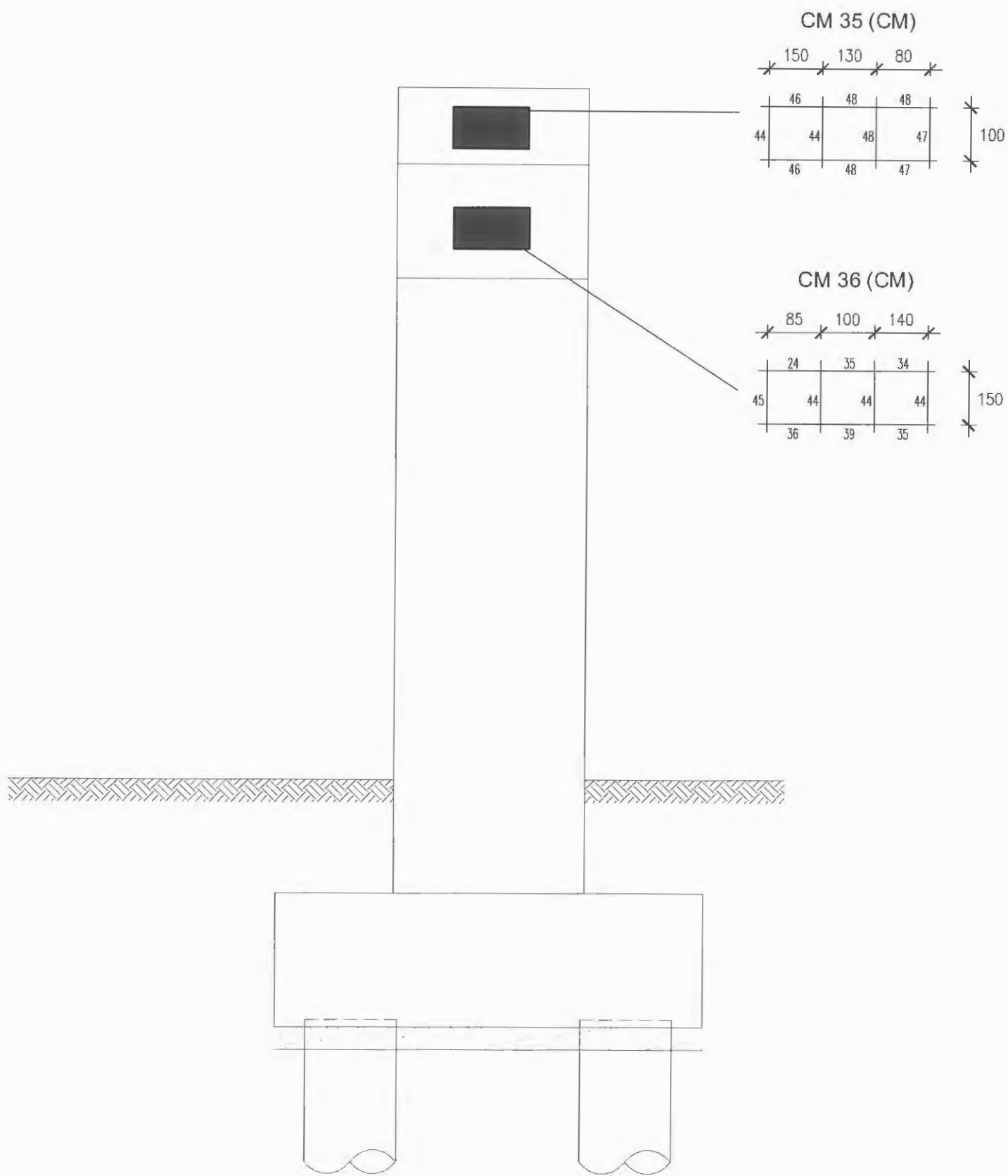
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-15B | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |



#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

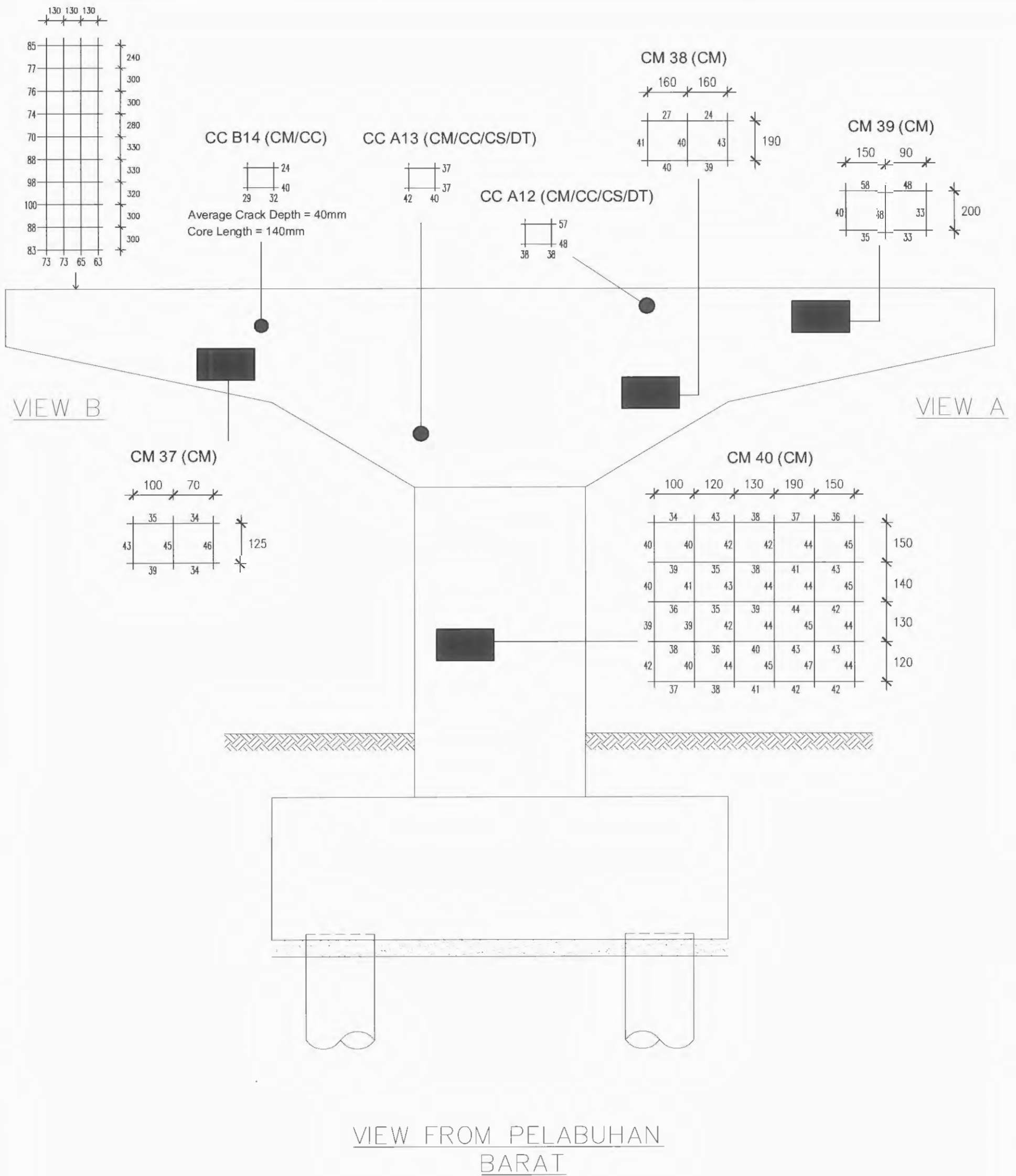
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                       | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-15B | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                     | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                     | NO LUKISAN : |           |



#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

|                                                                                                                       |                                                                                                                               |                                                                                                                                  |                                                                                                                                                                   |                                                                                      |                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| PELANGGAN<br><br>KERAJAAN MALAYSIA | PEGAWAI PENGUASA<br><br>JABATAN KERJA RAYA | PIHAK PERUNDING<br><br>KUMPULAN IKRAM SDN BHD | PROJEK<br>KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | TAJUK LUKISAN<br>RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-15B | SKALA<br>1:100<br>DILUKIS OLEH<br>Shafiq<br>DISEMAK OLEH<br>Nuryasmin<br>TARIKH<br>July 2011<br>NO LUKISAN : |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|



#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

PELANGGAN



KERAJAAN MALAYSIA

PEGAWAI PENGUASA



JABATAN KERJA RAYA

PIHAK PERUNDING



KUMPULAN IKRAM SDN BHD

PROJEK  
KERETAKAN TIANG SAMBUT (PIER)  
DI JAMBATAN SG. AUR FT180/001/40  
LALUAN PELABUHAN BARAT-  
PELABUHAN UTARA, DAERAH KLANG,  
SELANGOR DARUL EHSAN.

TAJUK LUKISAN  
RESULTS FOR COVERMETER AND  
CONCRETE CRACK DEPTH AT  
PIER P-33

SKALA

1:100

DILUKIS OLEH

Shafiq

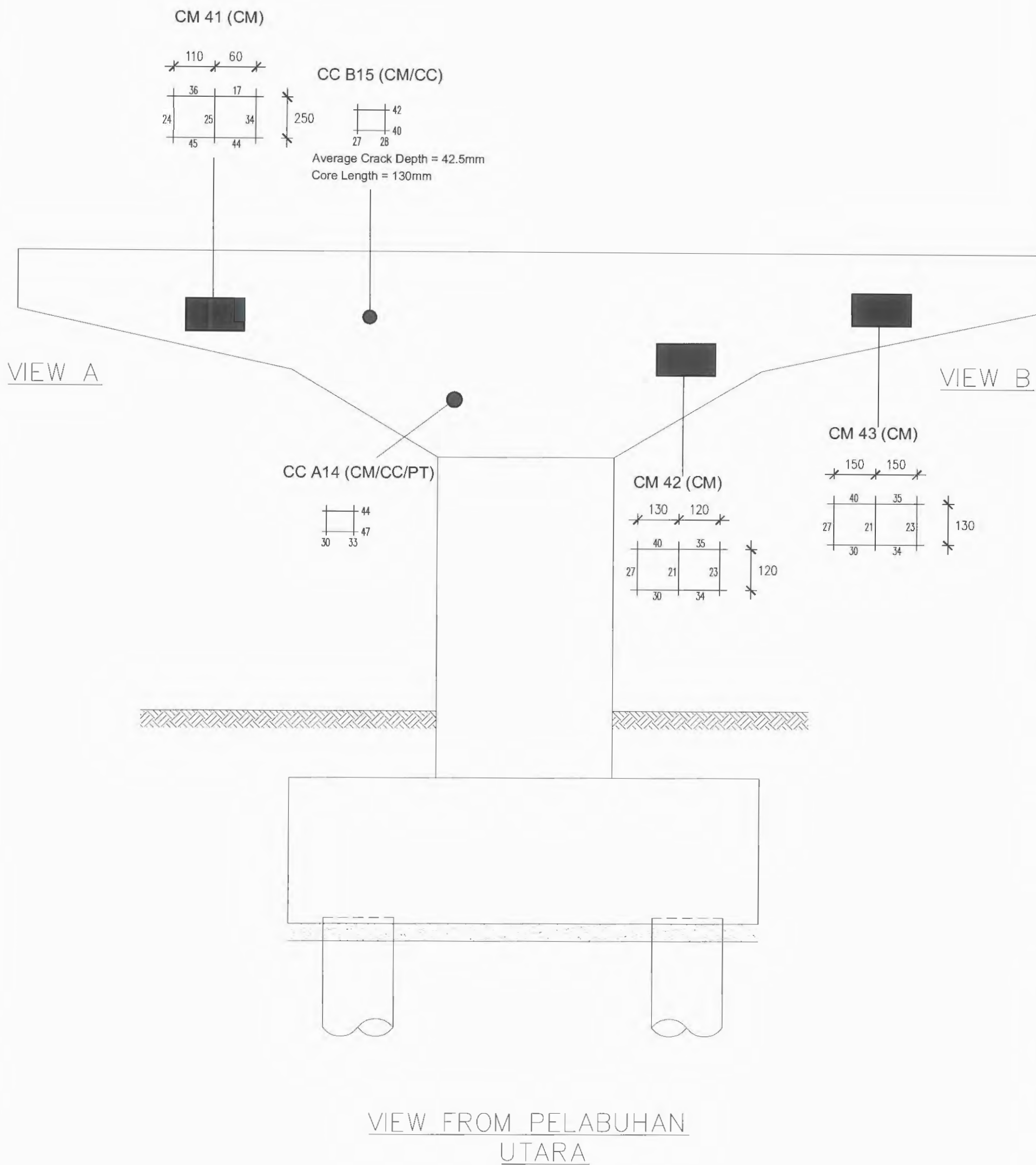
DISEMAK OLEH

Nuryasmin

TARIKH

July 2011

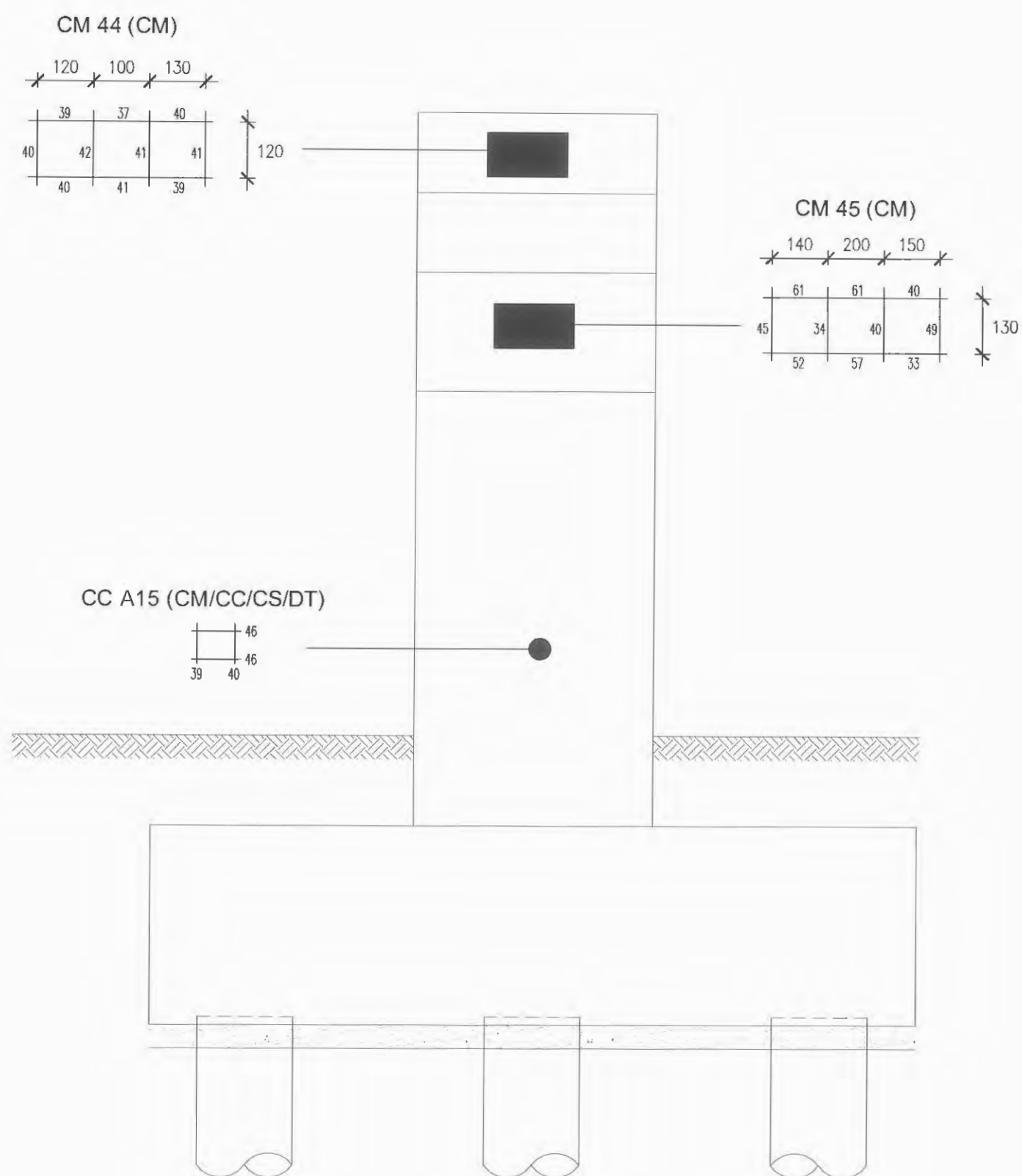
NO LUKISAN :



#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

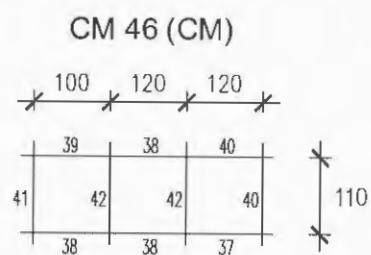
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                      | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-33 | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                    | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    | NO LUKISAN : |           |



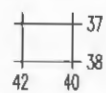
#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

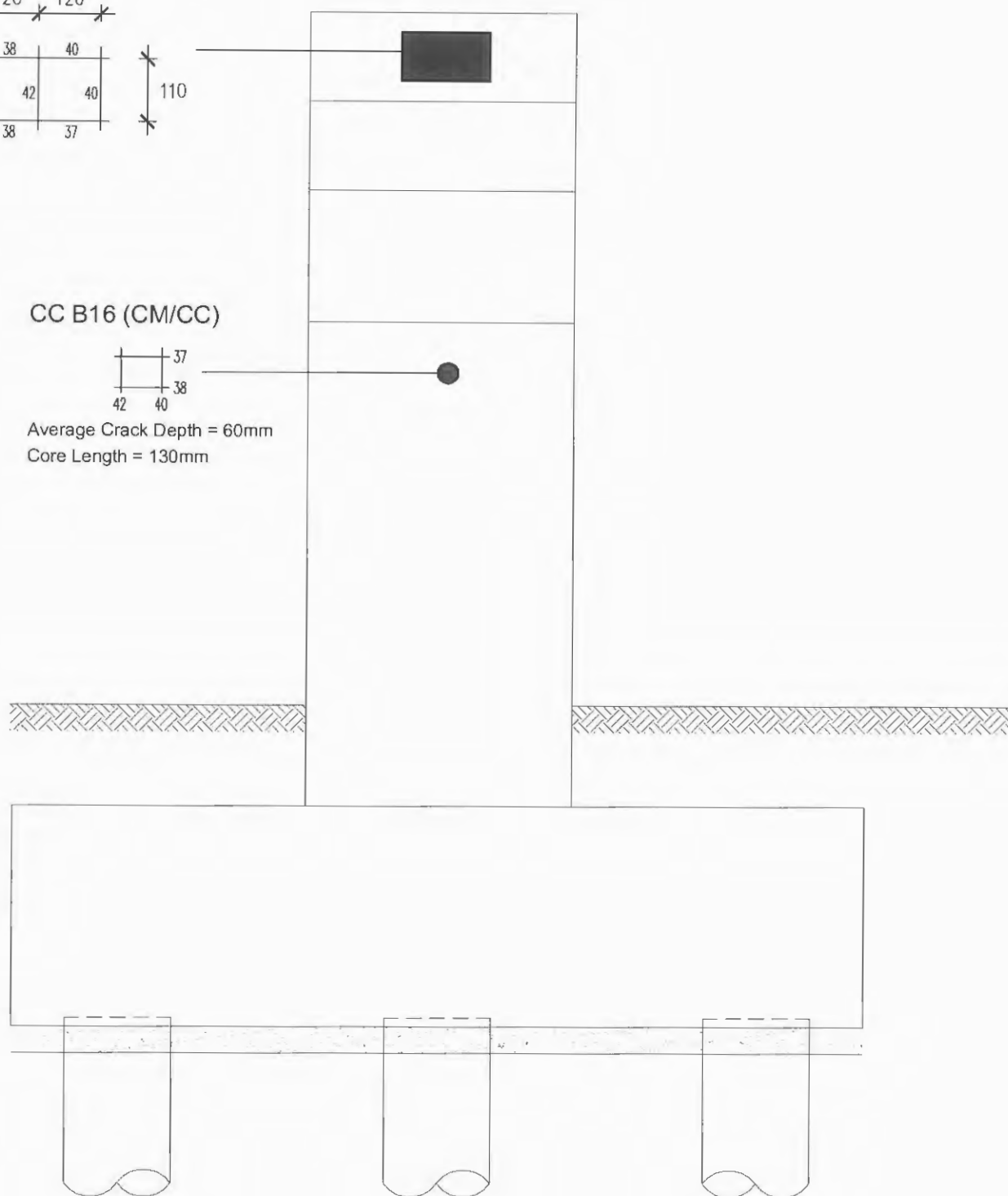
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                      | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-33 | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                    | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    | NO LUKISAN : |           |



CC B16 (CM/CC)



Average Crack Depth = 60mm  
Core Length = 130mm

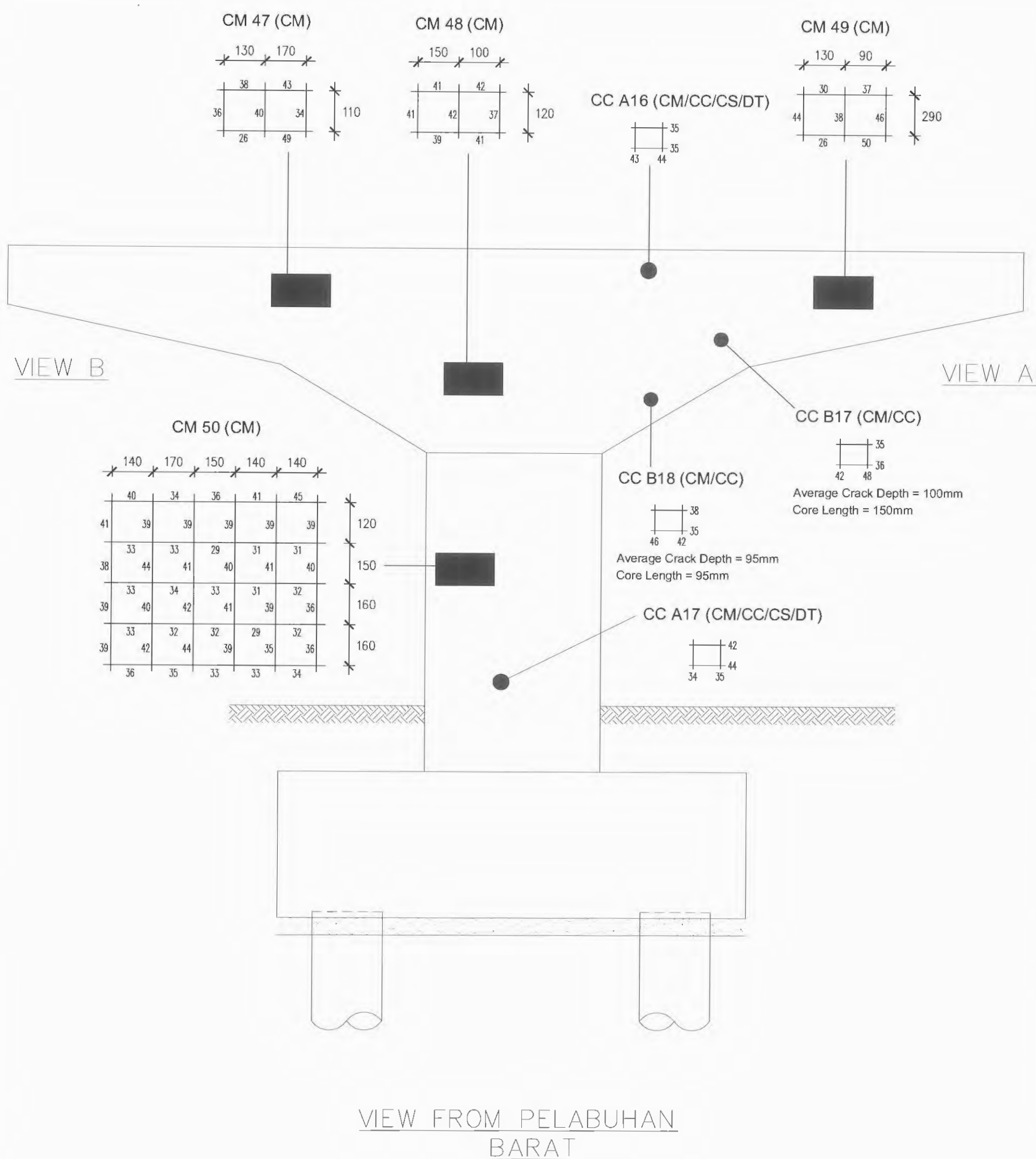


VIEW A

#### Legend

CS : Concrete Strength Test  
DT : Density Test  
PT : Petrographic Examination  
CM : Cover Meter  
CC : Concrete Coring  
GPR : Ground Penetration Radar

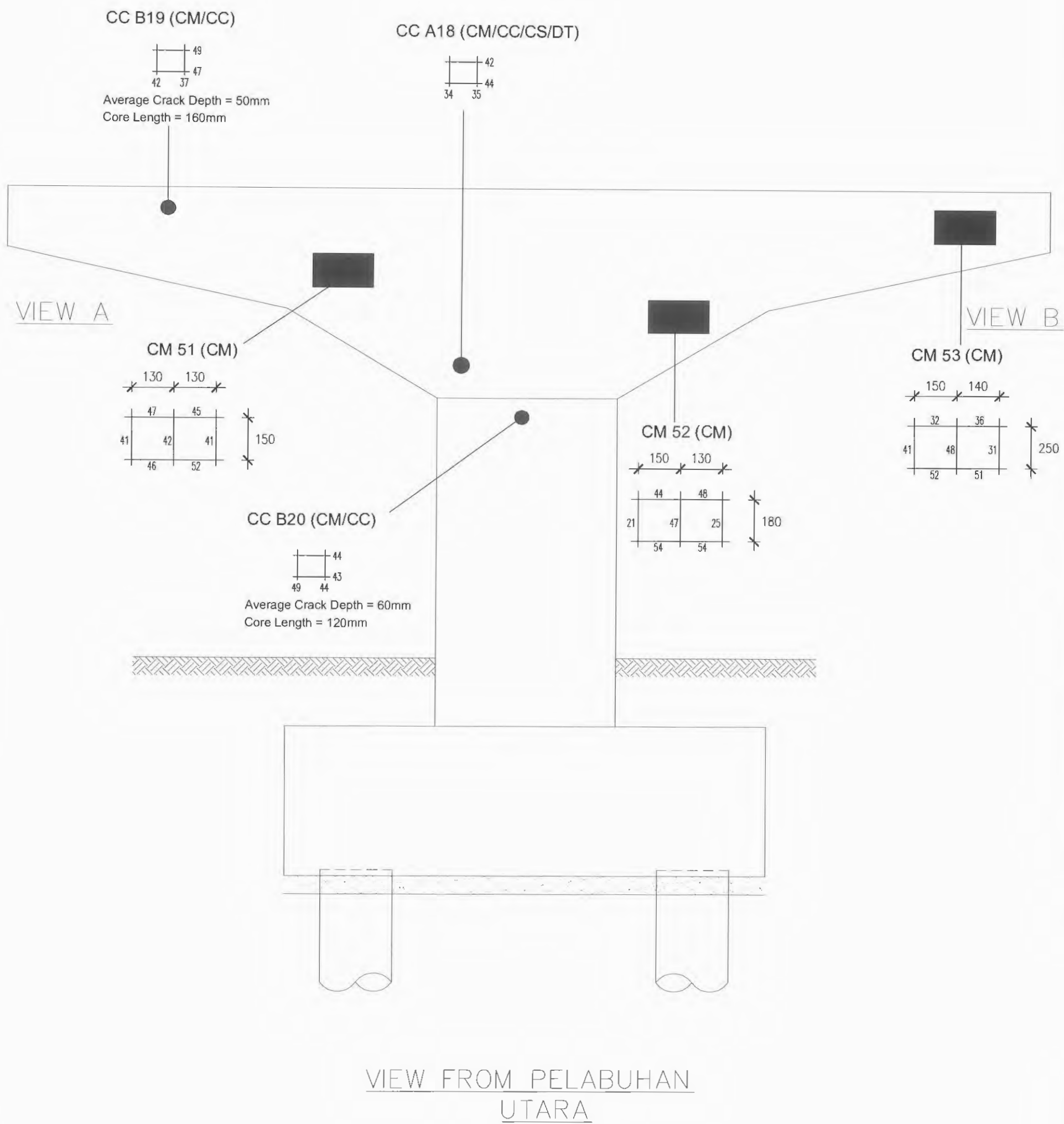
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                      | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-33 | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                    | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    | NO LUKISAN : |           |



#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

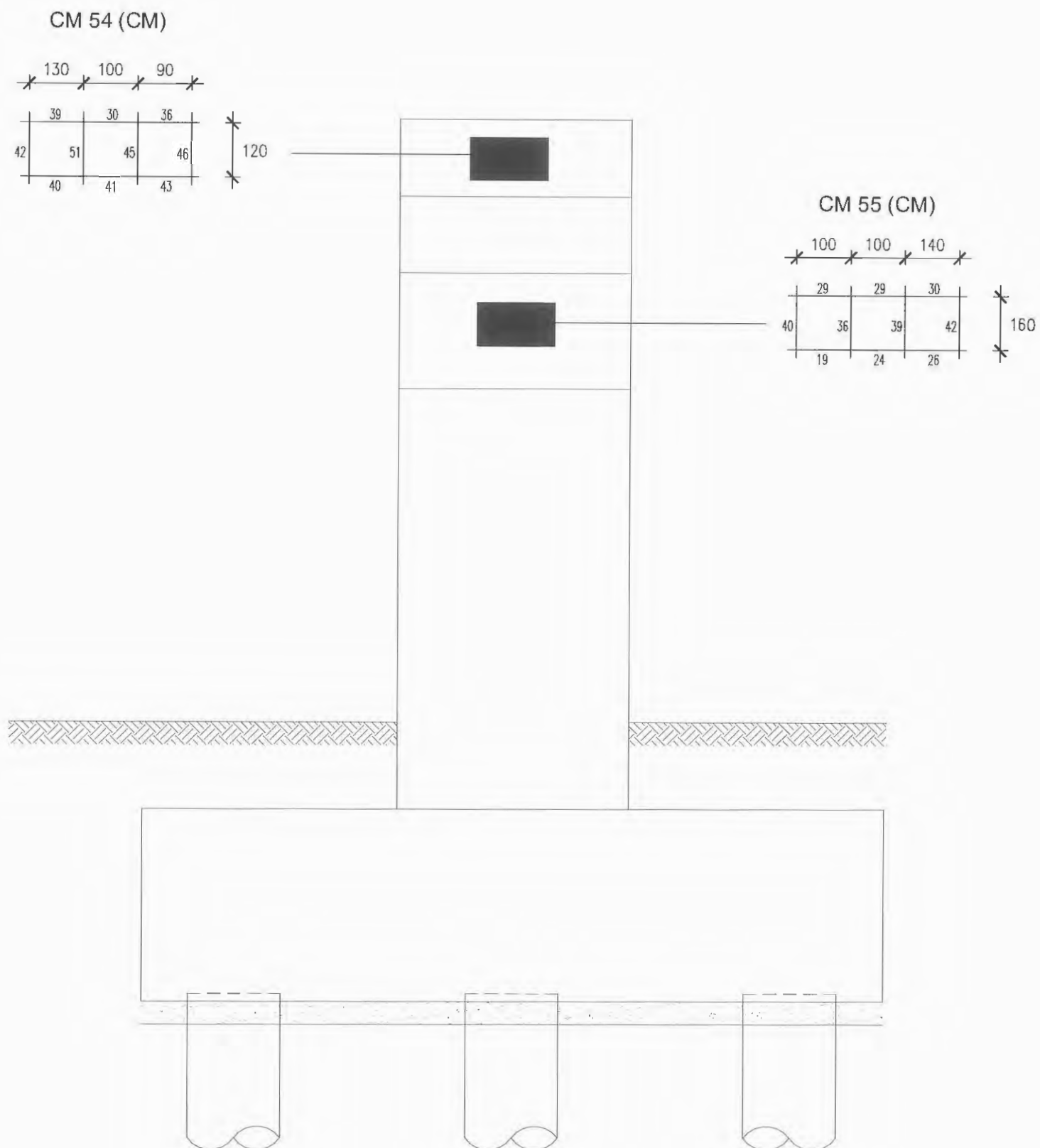
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    |              |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------|-----------|
| PELANGGAN                                                                           | PEGAWAI PENGUASA                                                                    | PIHAK PERUNDING                                                                     | PROJEK                                                                                                                                                  | TAJUK LUKISAN                                                      | SKALA        | 1:100     |
|  |  |  | KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-25 | DILUKIS OLEH | Shafiq    |
| KERAJAAN MALAYSIA                                                                   | JABATAN KERJA RAYA                                                                  | KUMPULAN IKRAM SDN BHD                                                              |                                                                                                                                                         |                                                                    | DISEMAK OLEH | Nuryasmin |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    | TARIKH       | July 2011 |
|                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                         |                                                                    | NO LUKISAN : |           |



#### Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

|                                                                                                                       |                                                                                                                               |                                                                                                                                  |                                                                                                                                                                   |                                                                                     |                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| PELANGGAN<br><br>KERAJAAN MALAYSIA | PEGAWAI PENGUASA<br><br>JABATAN KERJA RAYA | PIHAK PERUNDING<br><br>KUMPULAN IKRAM SDN BHD | PROJEK<br>KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | TAJUK LUKISAN<br>RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-25 | SKALA<br>1:100<br>DILUKIS OLEH<br>Shafiq<br>DISEMAK OLEH<br>Nuryasmin<br>TARIKH<br>July 2011<br>NO LUKISAN : |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|



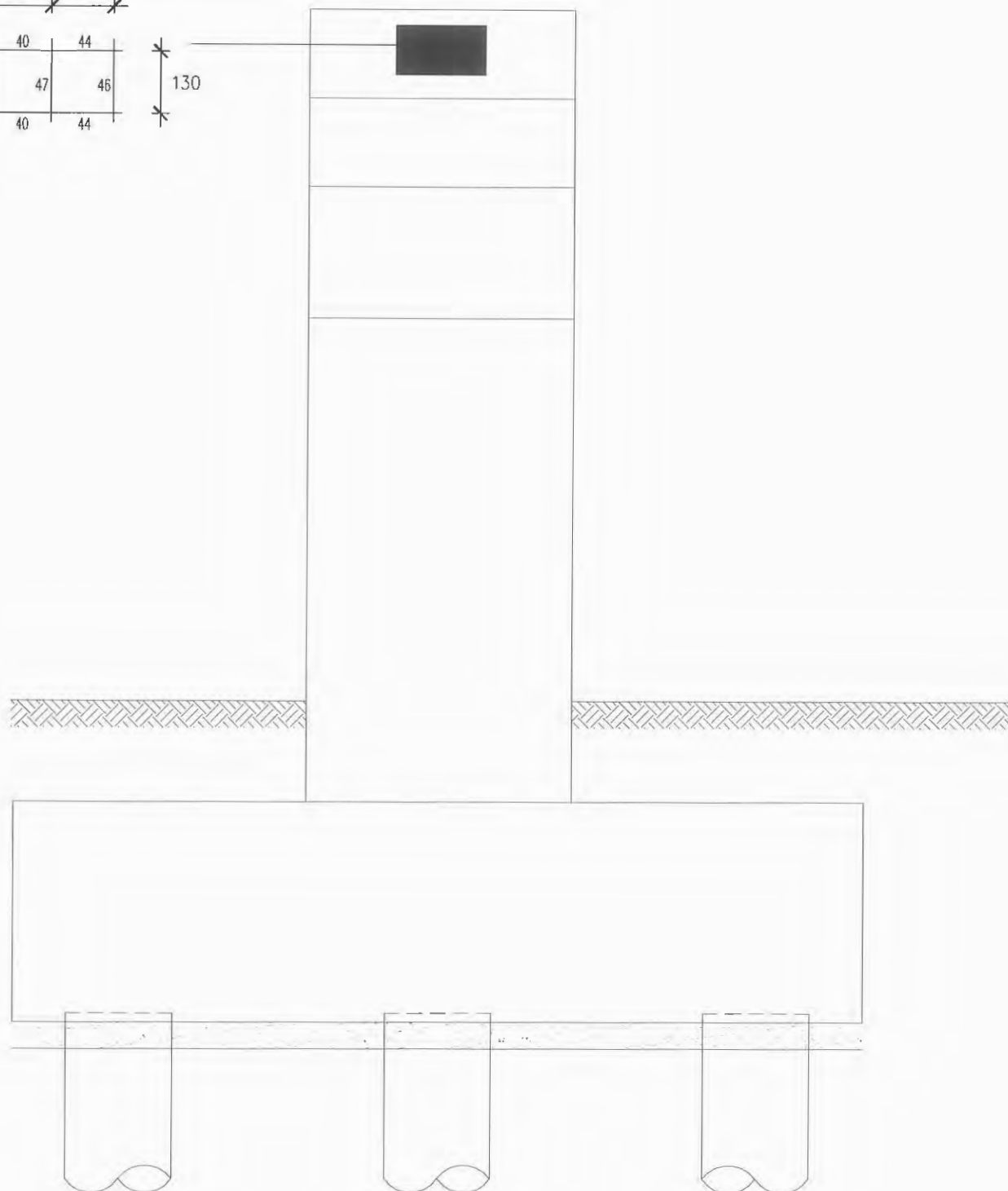
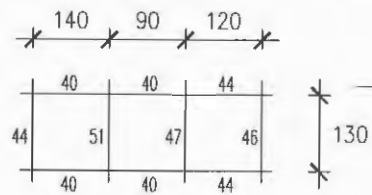
VIEW B

# Legend

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

|                                                                                                                       |                                                                                                                               |                                                                                                                                  |                                                                                                                                                                   |                                                                                     |                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| PELANGGAN<br><br>KERAJAAN MALAYSIA | PEGAWAI PENGUASA<br><br>JABATAN KERJA RAYA | PIHAK PERUNDING<br><br>KUMPULAN IKRAM SDN BHD | PROJEK<br>KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | TAJUK LUKISAN<br>RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-25 | SKALA<br>1:100<br>DILUKIS OLEH<br>Shafiq<br>DISEMAK OLEH<br>Nuryasmin<br>TARIKH<br>July 2011<br>NO LUKISAN : |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|

CM 56 (CM)



VIEW A

**Legend**

CS : Concrete Strength Test  
 DT : Density Test  
 PT : Petrographic Examination  
 CM : Cover Meter  
 CC : Concrete Coring  
 GPR : Ground Penetration Radar

|                                                                                                                       |                                                                                                                               |                                                                                                                                  |                                                                                                                                                                   |                                                                                     |                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| PELANGGAN<br><br>KERAJAAN MALAYSIA | PEGAWAI PENGUASA<br><br>JABATAN KERJA RAYA | PIHAK PERUNDING<br><br>KUMPULAN IKRAM SDN BHD | PROJEK<br>KERETAKAN TIANG SAMBUT (PIER)<br>DI JAMBATAN SG. AUR FT180/001/40<br>LALUAN PELABUHAN BARAT-<br>PELABUHAN UTARA, DAERAH KLANG,<br>SELANGOR DARUL EHSAN. | TAJUK LUKISAN<br>RESULTS FOR COVERMETER AND<br>CONCRETE CRACK DEPTH AT<br>PIER P-25 | SKALA<br>1:100<br>DILUKIS OLEH<br>Shafiq<br>DISEMAK OLEH<br>Nuryasmin<br>TARIKH<br>July 2011<br>NO LUKISAN : |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|