

รายการอ้างอิง

ภาษาไทย

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- แมนตรวง จินจิว, มนต์พล วรสิทธิ์เศรษฐ์ และณัฐพล สุขอนันต์. 2540. การศึกษาคุณสมบัติทางวิศวกรรมของชั้นดินตามแนวเส้นทางรถไฟฟ้าใต้ดิน. โครงการทางวิศวกรรมโยธา ภาควิชาวิศวกรรมโยธา คณะวิศวกรรมศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย.
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สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย



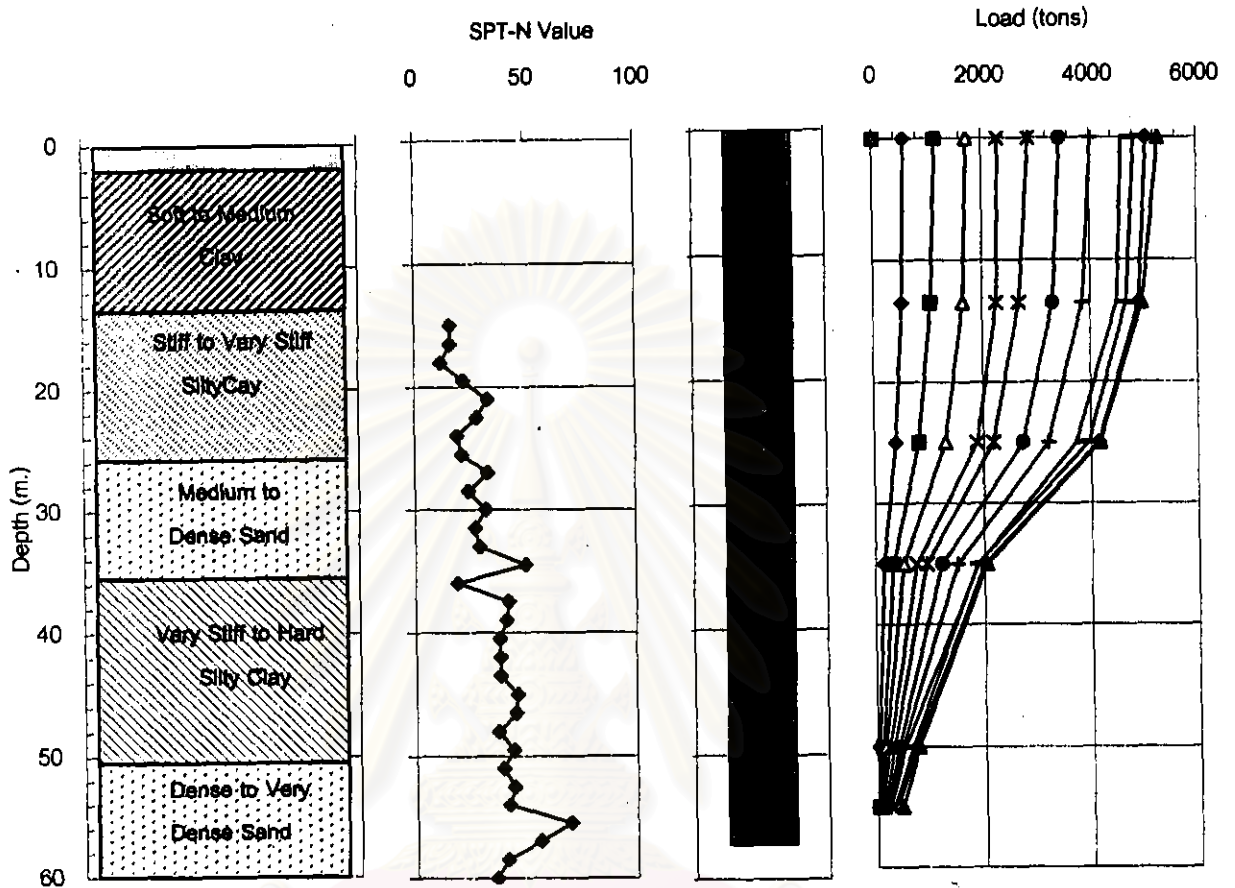
สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

TEST PILE : BP - 1

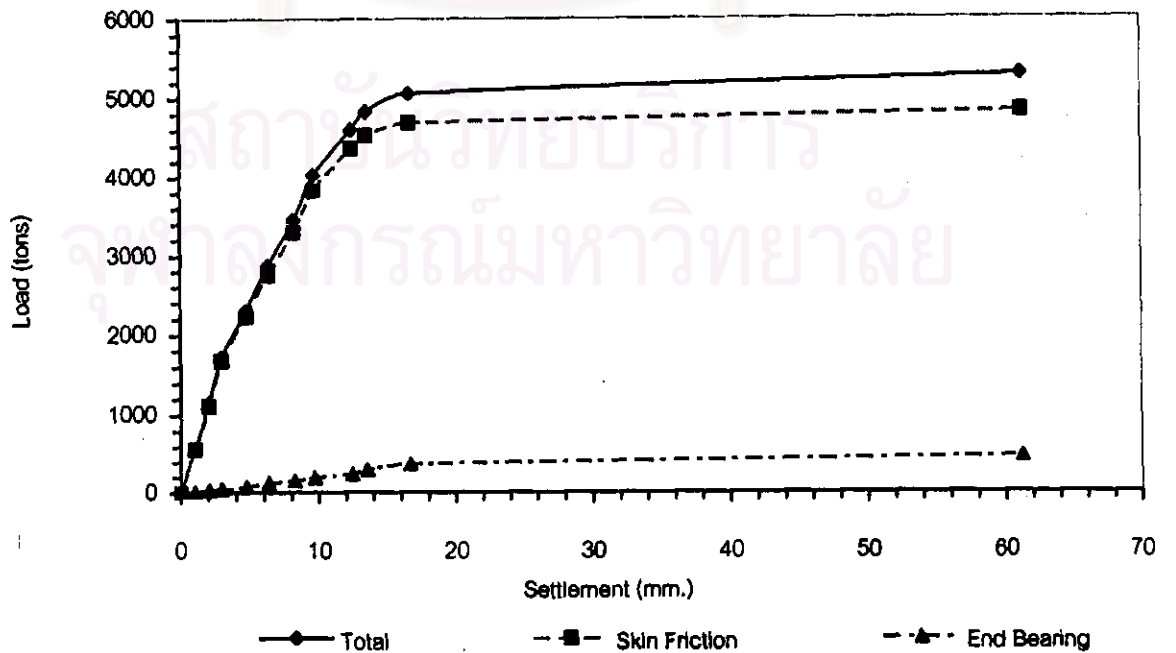
SIZE : 1.50 x 3.0 x 57.50 m.

PROJECT : BECM

CONDITION : Base Grouted Barrette Pile



Load - Settlement Curve



TEST PILE : BP - 1

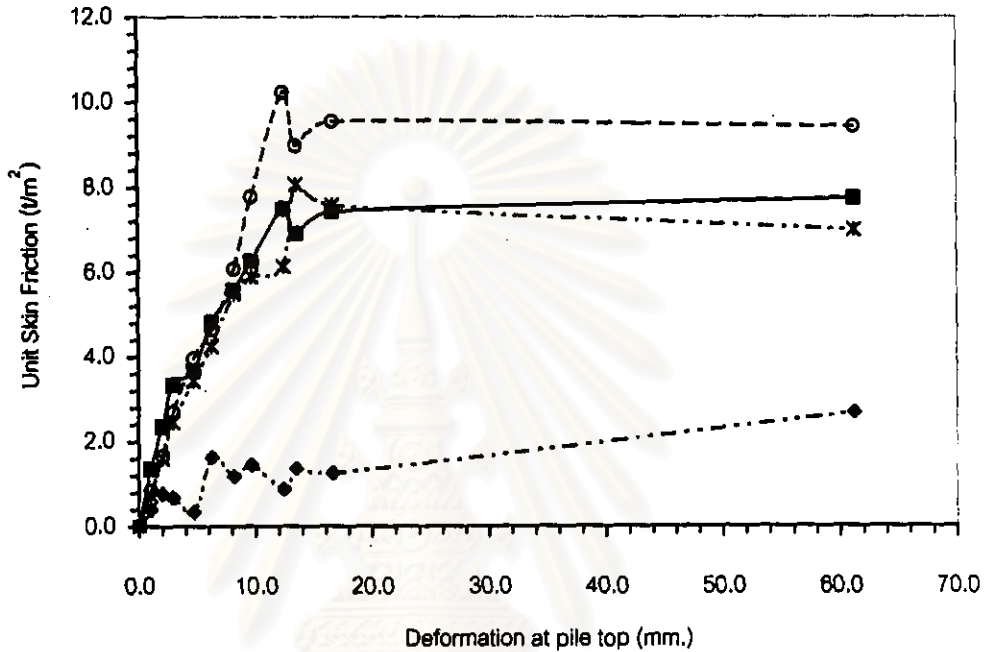
SIZE : 1.50 x 3.0 x 57.50 m.

PROJECT : BECM

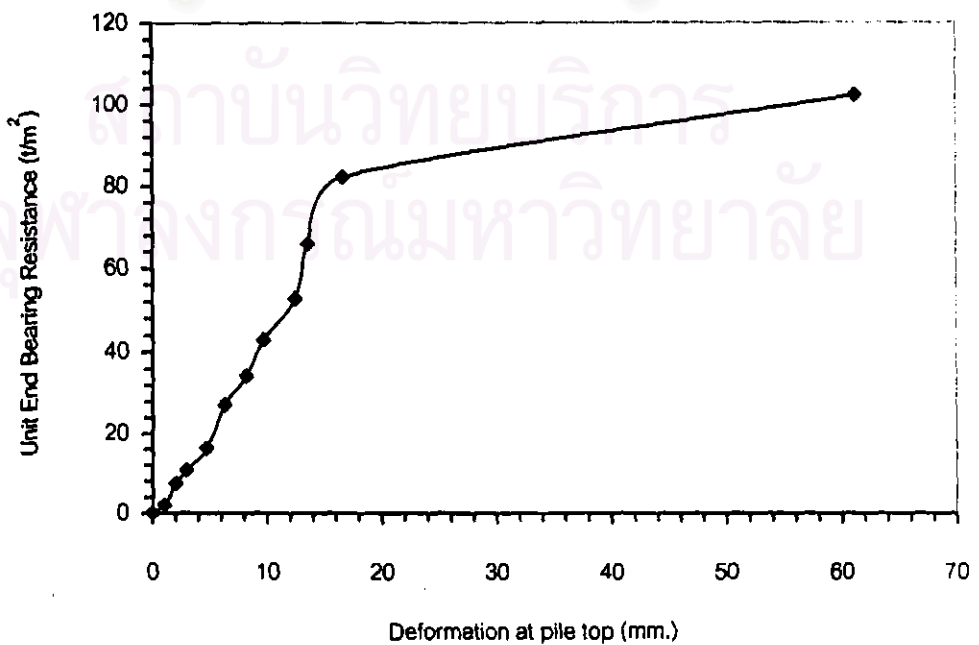
CONDITION : Base Grouted Barrette Pile

Q_{ult} (Butler & Hoy (1977)) 5100 tons

Deformation at Q_{ult} 17 mm.



—◆— Soft Clay —■— Stiff to V. stiff clay —○— Hard Clay —×— 2 nd Sand

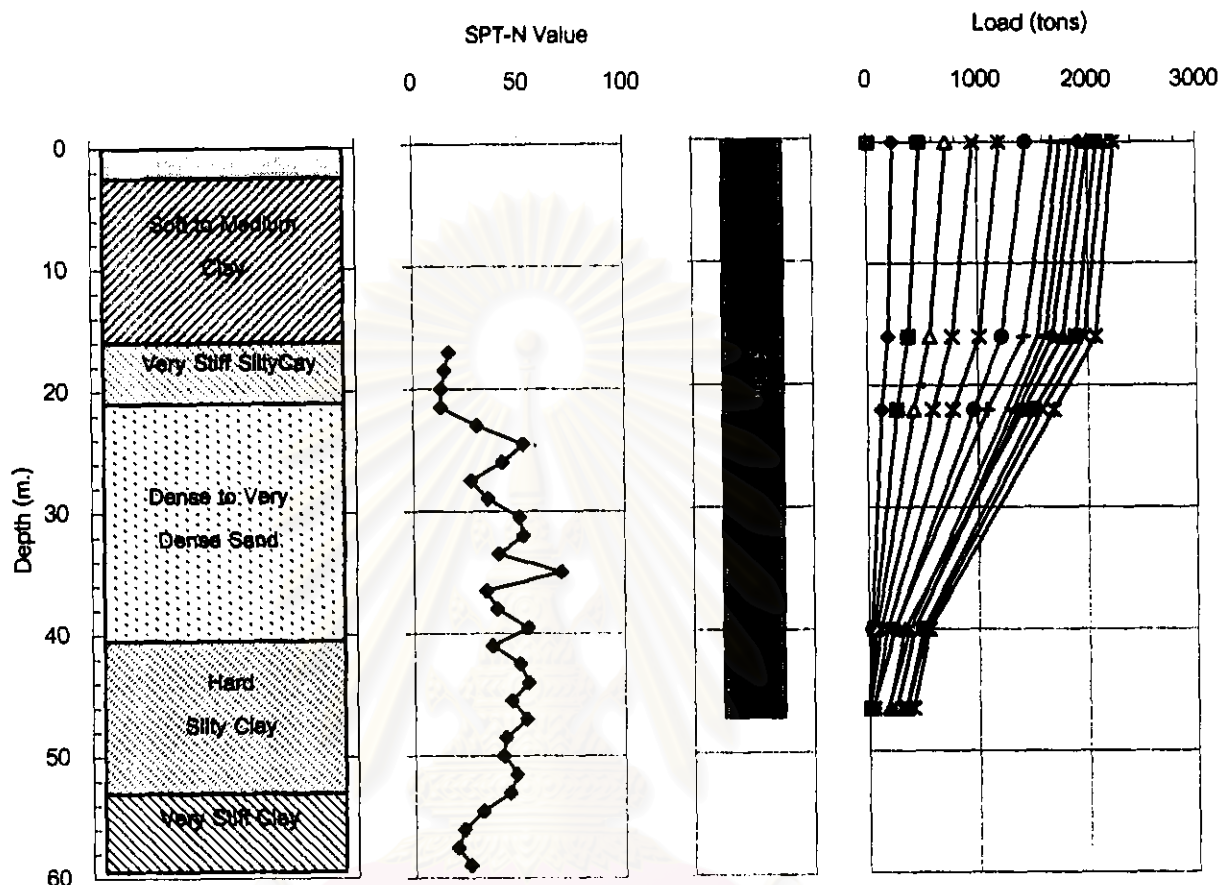


TEST PILE : BP - 2

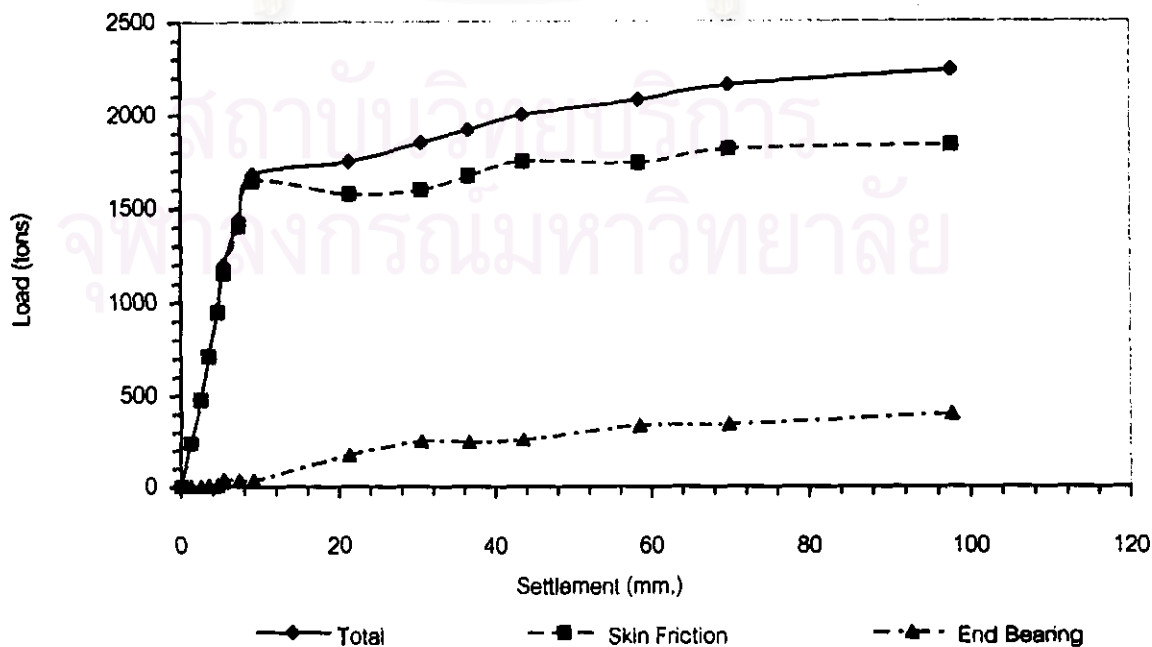
SIZE : 0.80 x 2.7 x 47.10 m.

PROJECT : MRTA Sta.12

CONDITION : Normal Barrette Pile (Tip in Clay)



Load - Settlement Curve



TEST PILE : BP - 2

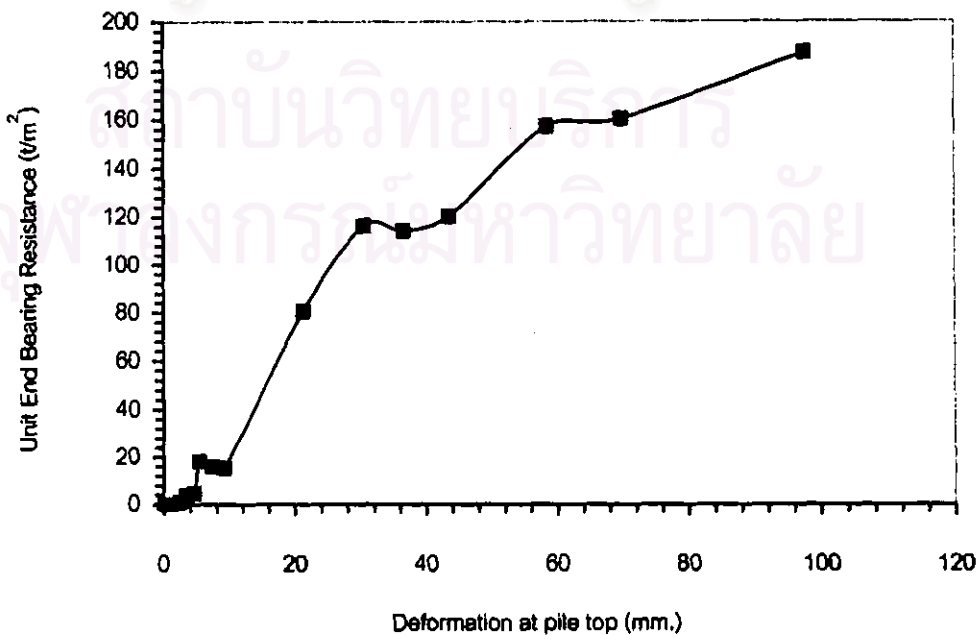
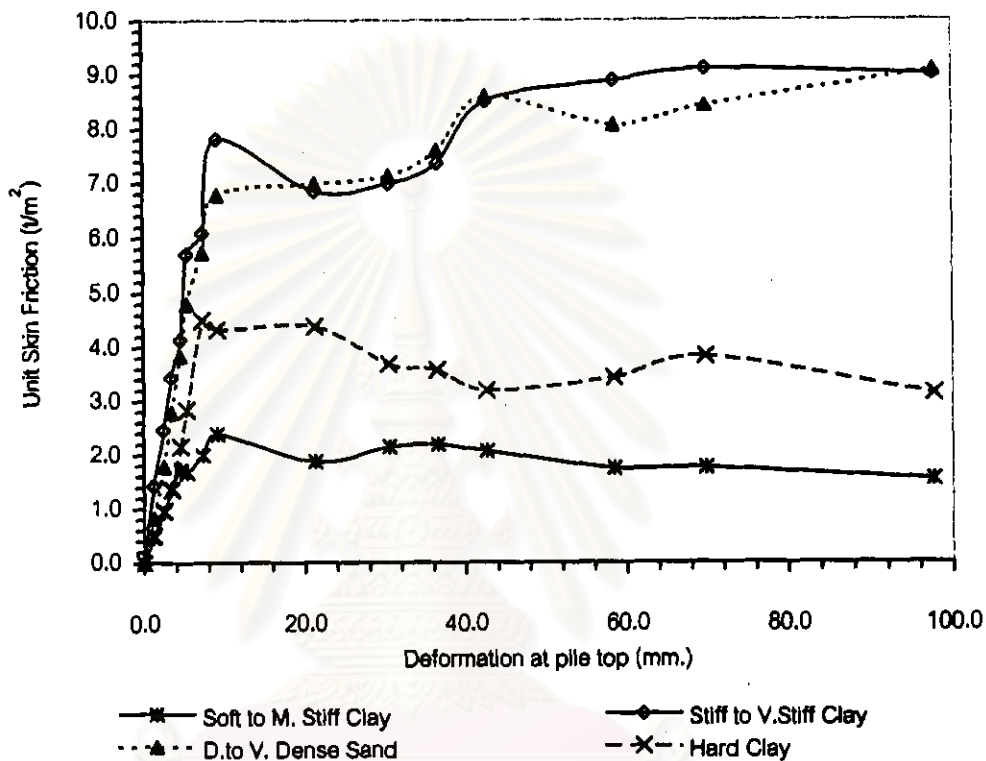
SIZE : 0.80 x 2.7 x 47.10 m.

PROJECT : MRTA Sta.12

CONDITION : Normal Barrette Pile (Tip in Clay)

Q_{ult} (Butler & Hoy (1977)) 1900 tons

Deformation at Q_{ult} 37 mm.

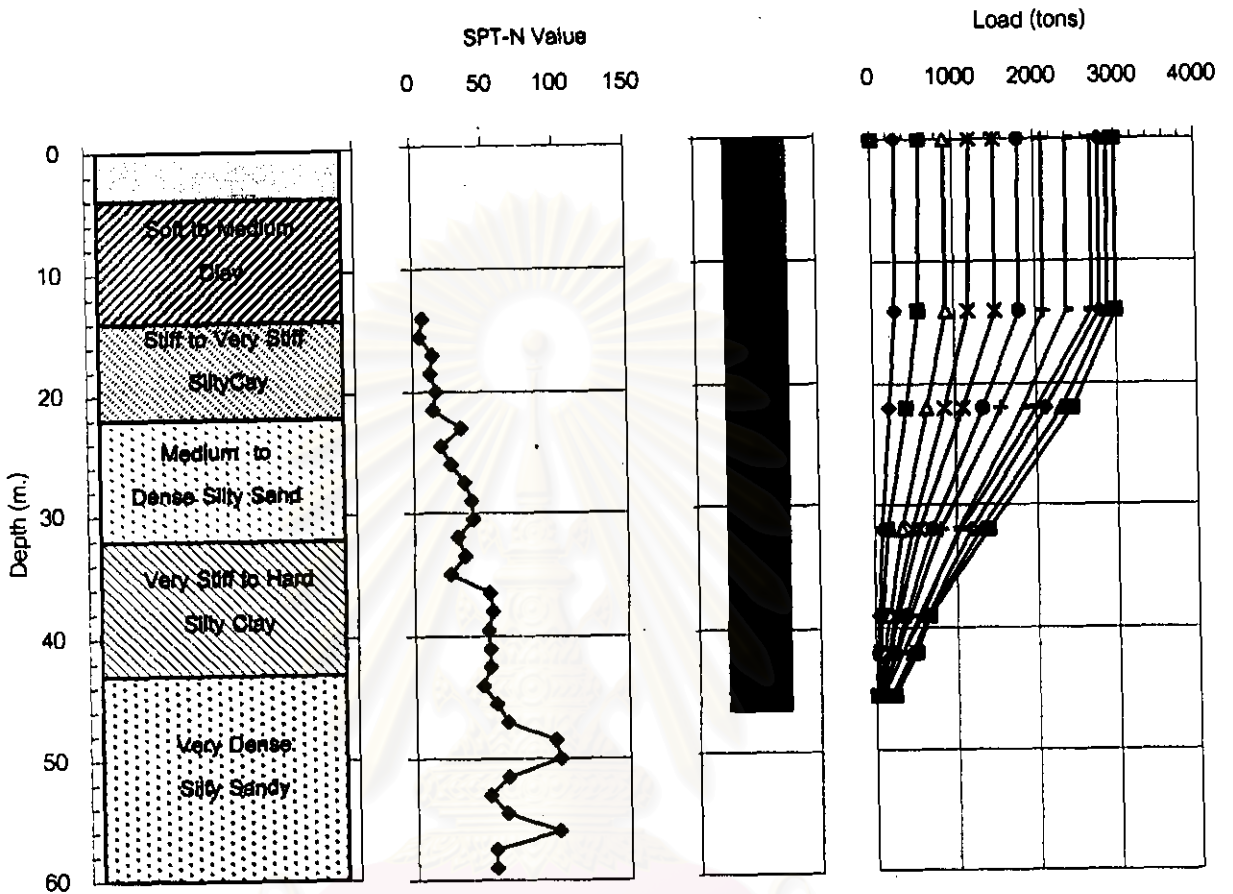


TEST PILE : BP - 3

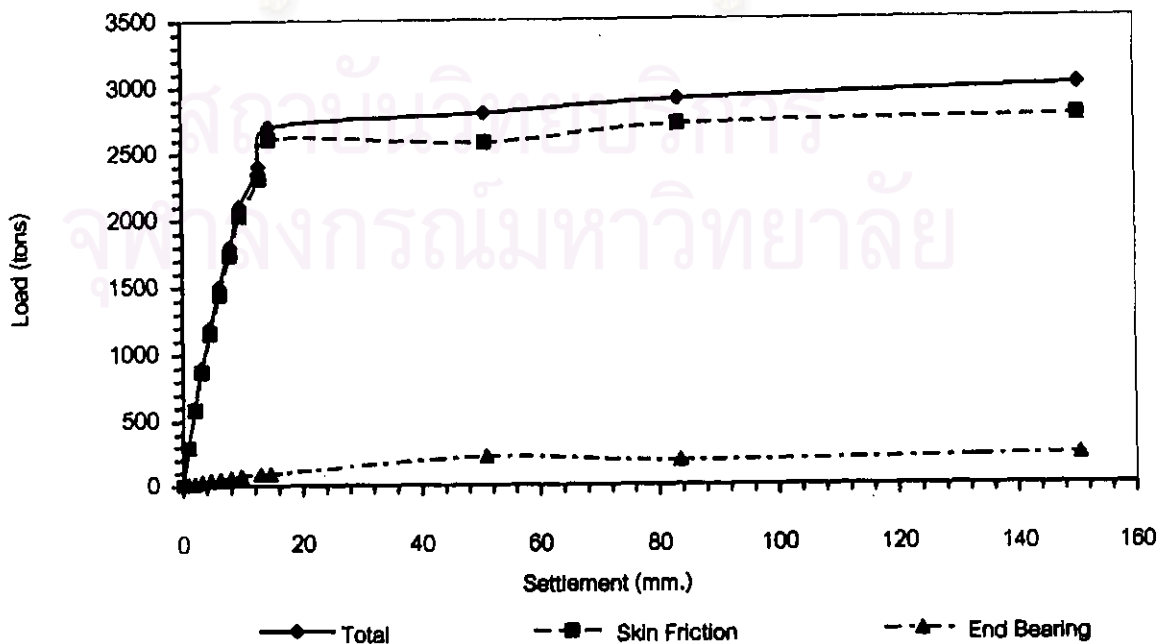
SIZE : 0.80 x 2.5 x 46.50 m.

PROJECT :

CONDITION : Base Grouted Barrette Pile



Load - Settlement Curve



TEST PILE : BP - 3

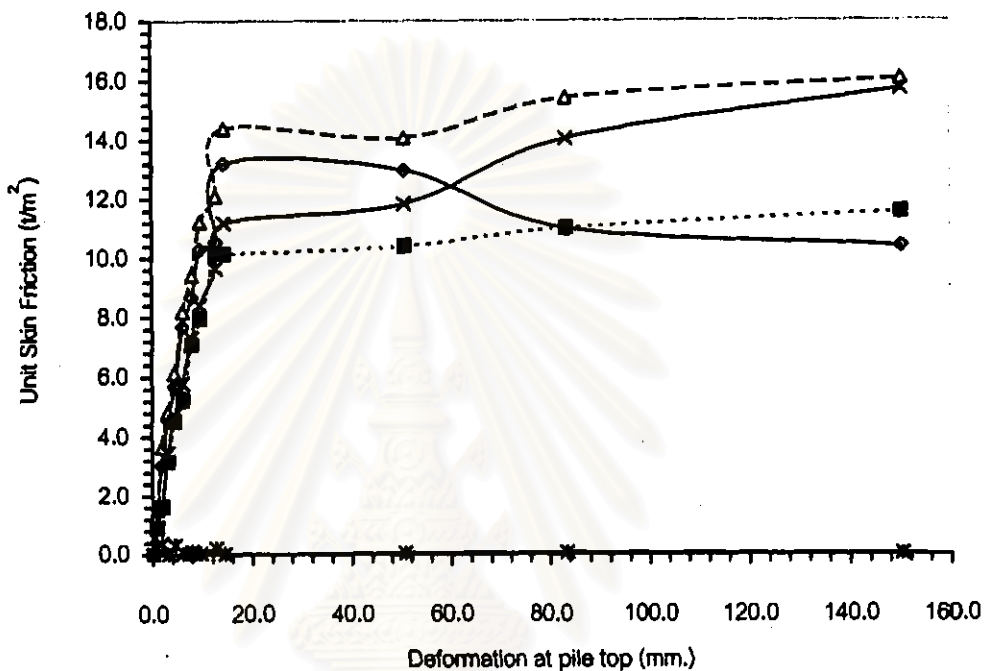
SIZE : 0.80 x 2.5 x 46.50 m.

PROJECT :

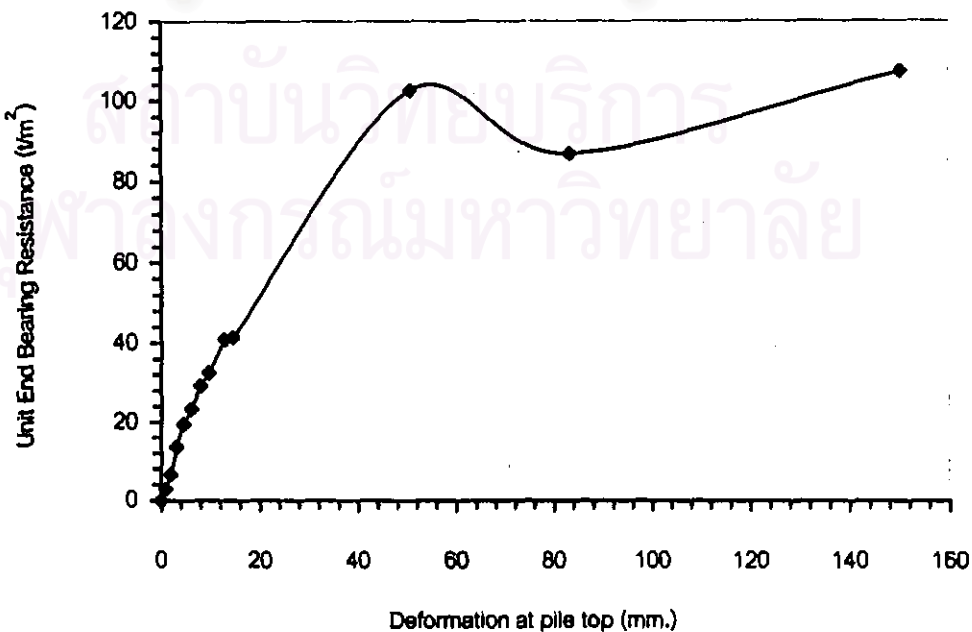
CONDITION : Base Grouted Barrette Pile

Q_{ult} (Butler & Hoy (1977)) 2770 tons

Deformation at Q_{ult} 42 mm.



* Soft To M. Clay o Stiff to V. Stiff Clay - Δ - 1st Dense Sand
 x V. Stiff to Hard Clay ■ 2nd Sand

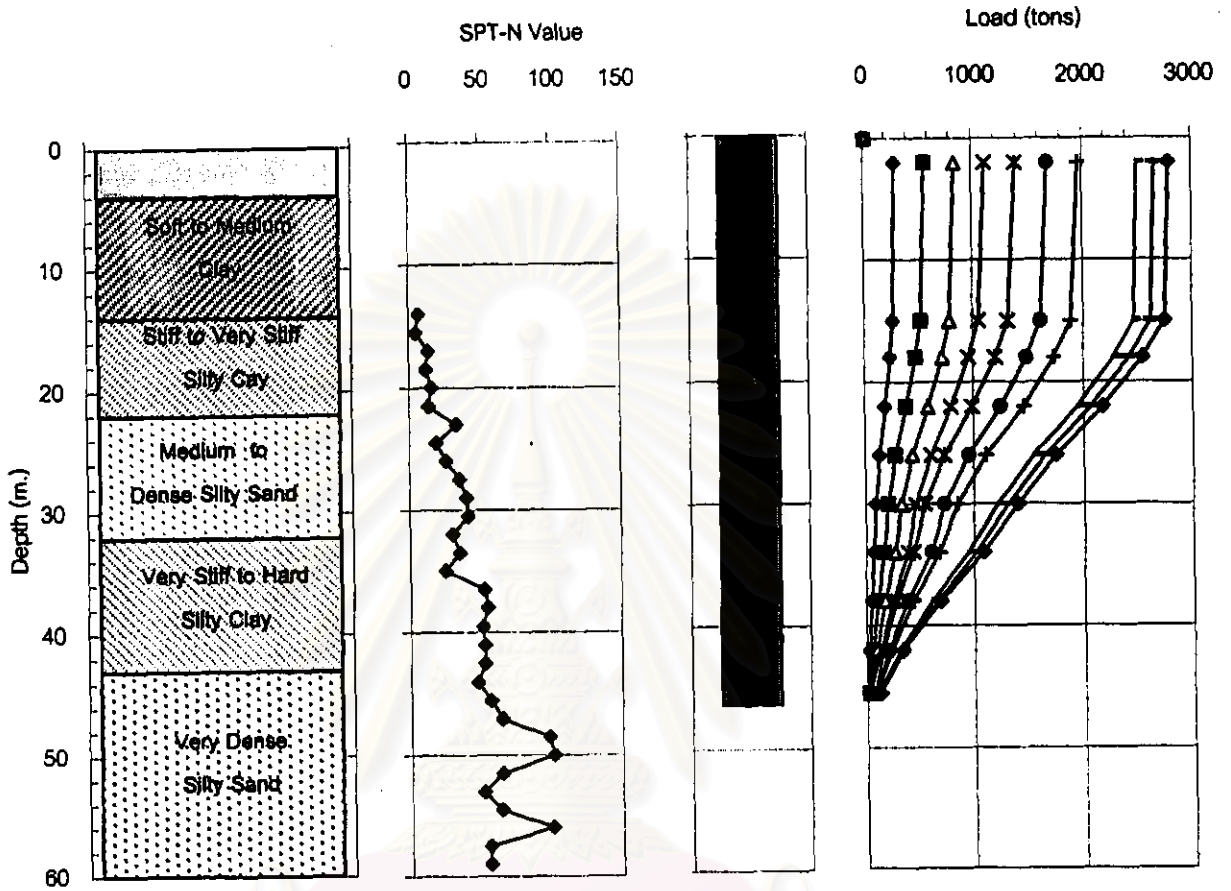


TEST PILE : BP-4

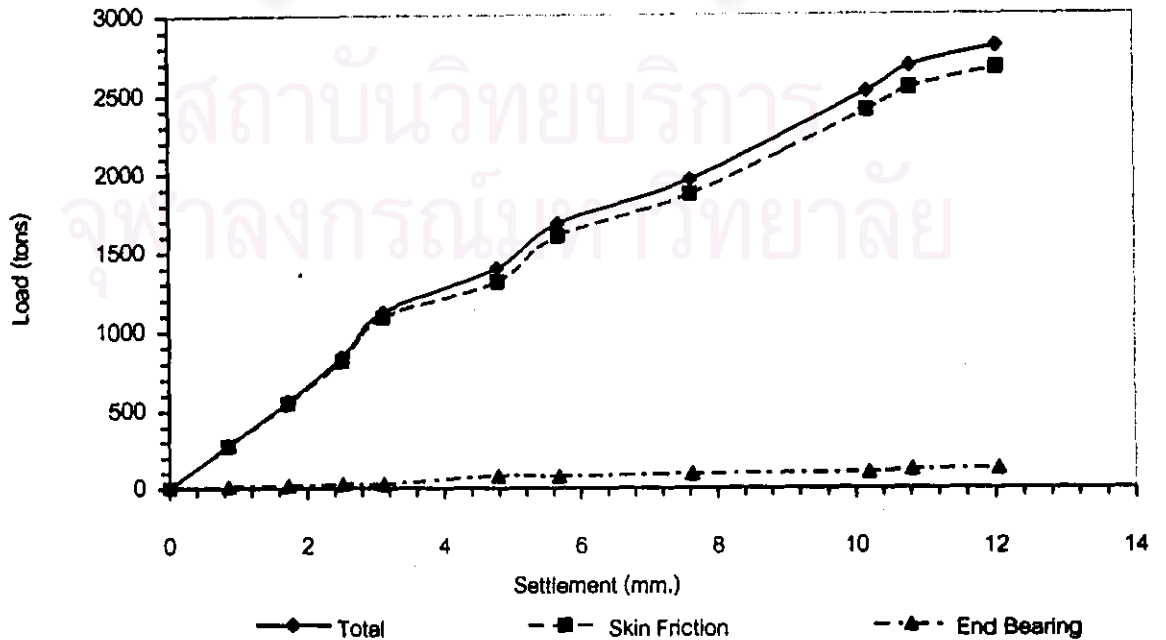
SIZE : 0.80 x 2.5 x 46.30 m.

PROJECT :

CONDITION : Base Grouted Barrette Pile



Load - Settlement Curve



TEST PILE : BP-4

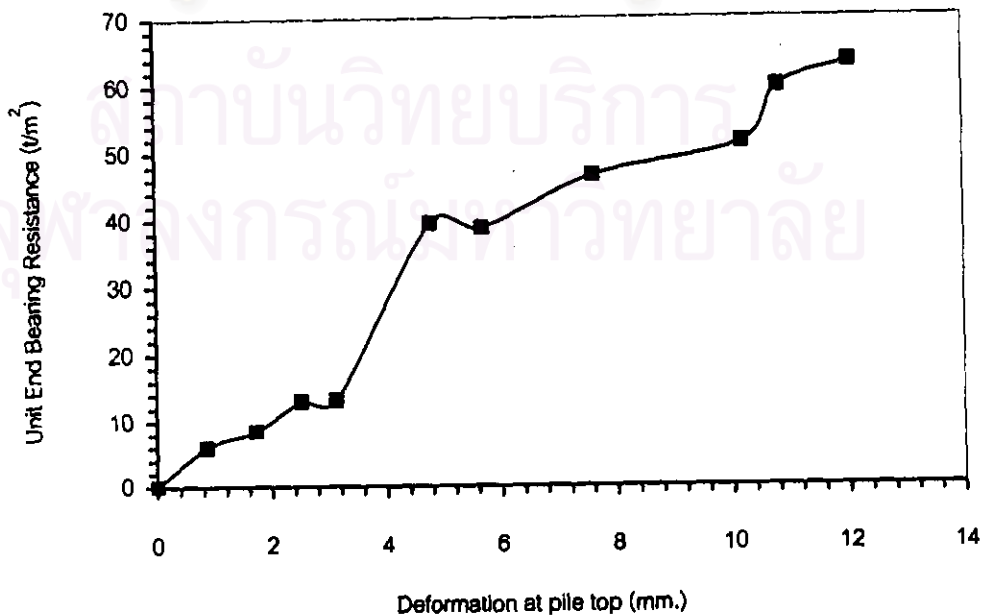
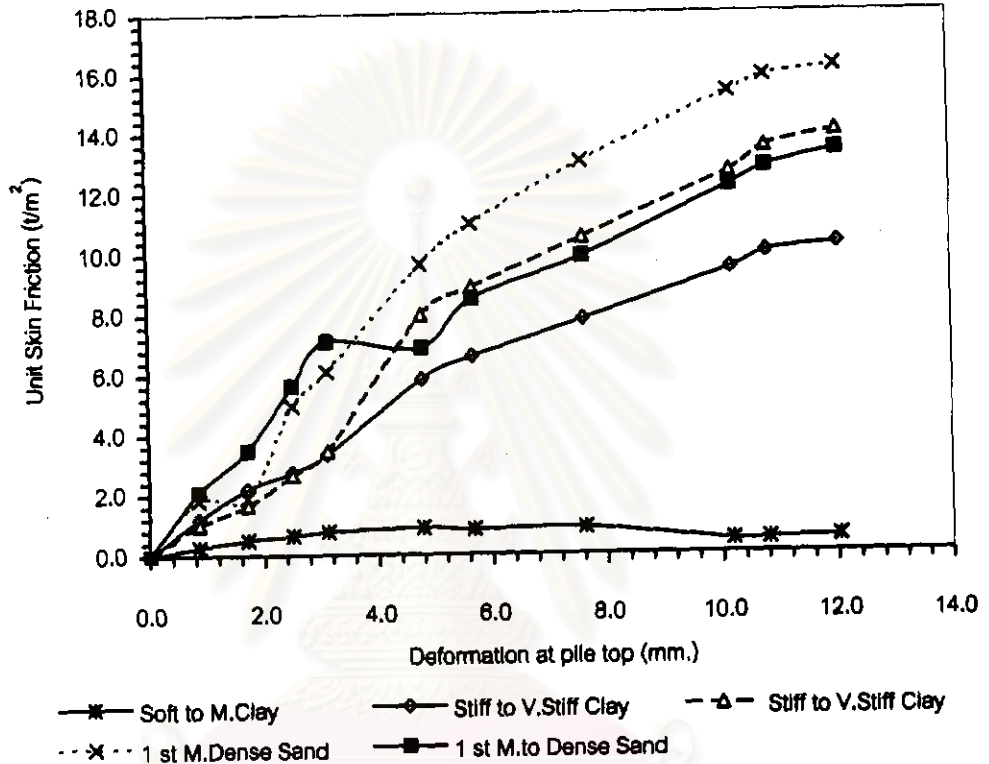
SIZE : 0.80 x 2.5 x 46.30 m.

PROJECT :

CONDITION : Base Grouted Barrette Pile

Q_{ult} (Butler & Hoy (1977)) 2800 tons

Deformation at Q_{ult} 12 mm.

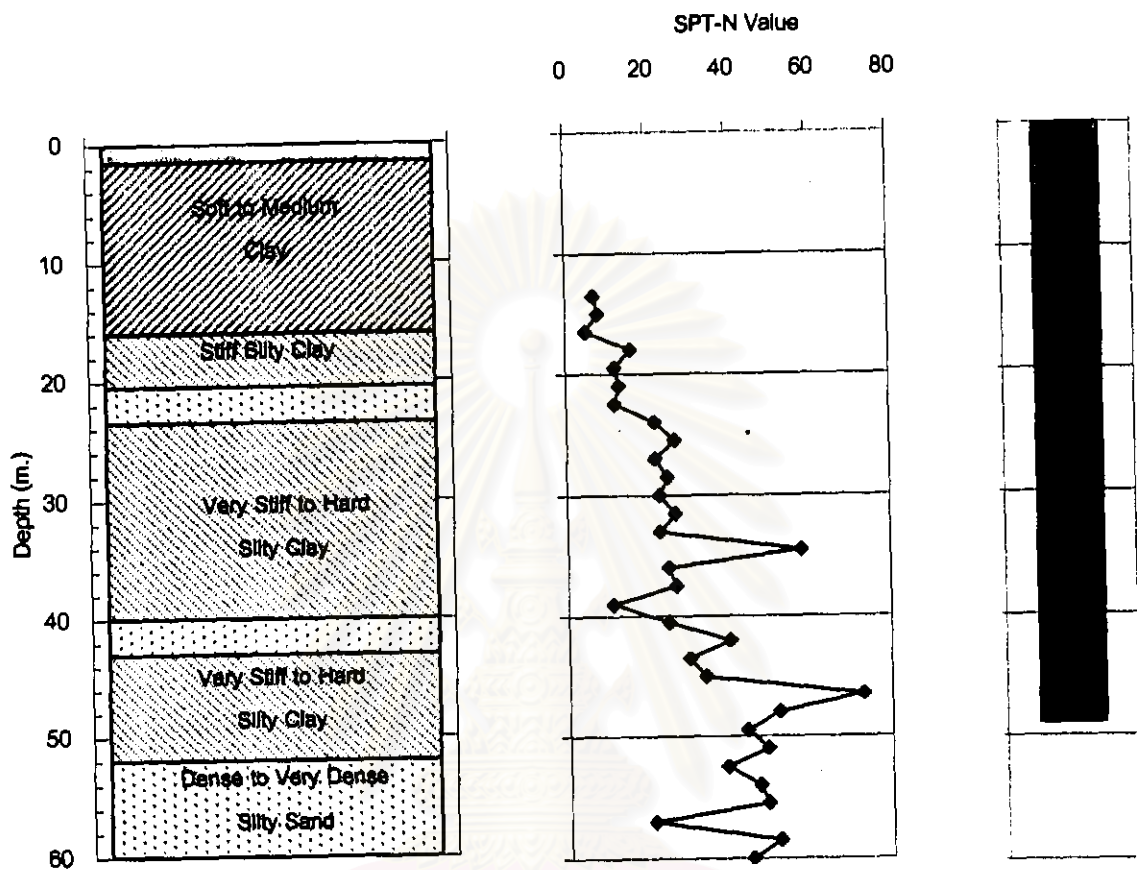


TEST PILE : BP-5

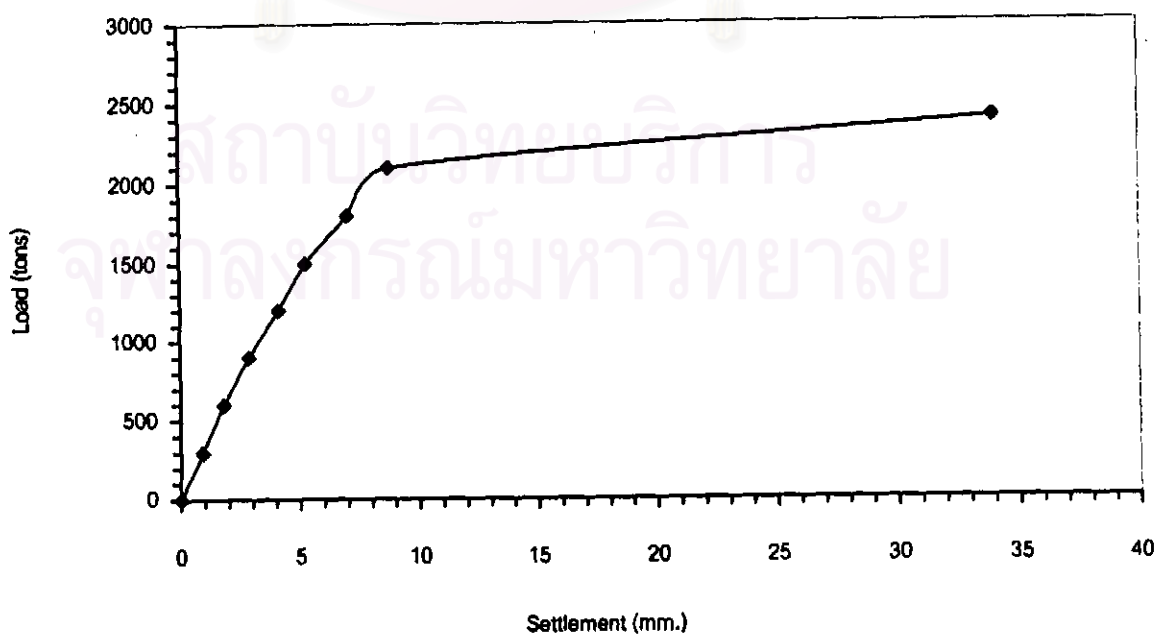
SIZE : 1.00 x 2.7 x 48.90 m.

PROJECT : Green Tower

CONDITION : Normal Barrette Pile



Load - Settlement Curve

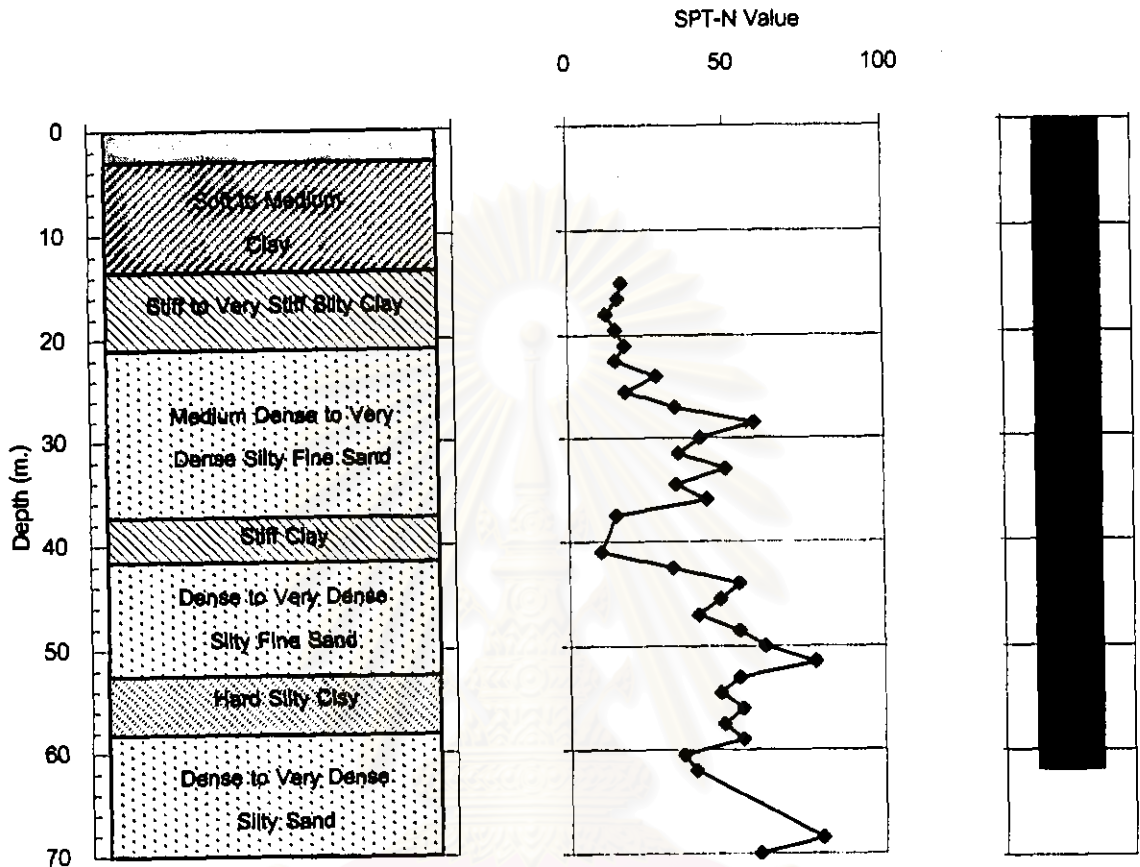


TEST PILE : BP-6

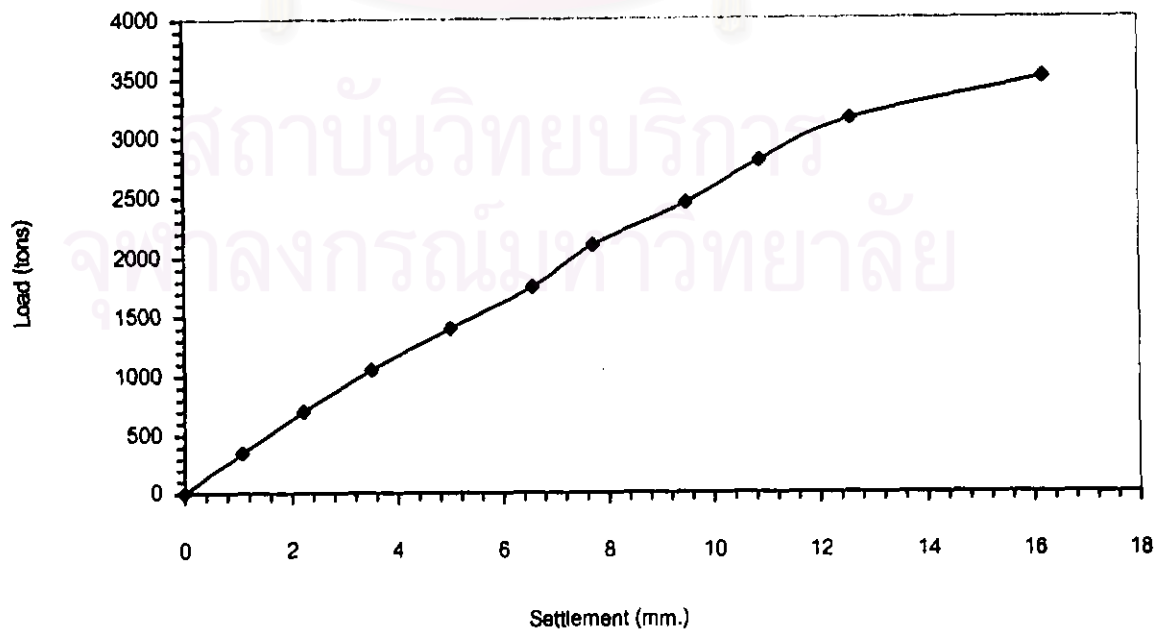
SIZE : 0.85 x 2.72 x 61.80 m.

PROJECT : Jewelry Trade Center

CONDITION : Normal Barrette Pile



Load - Settlement Curve

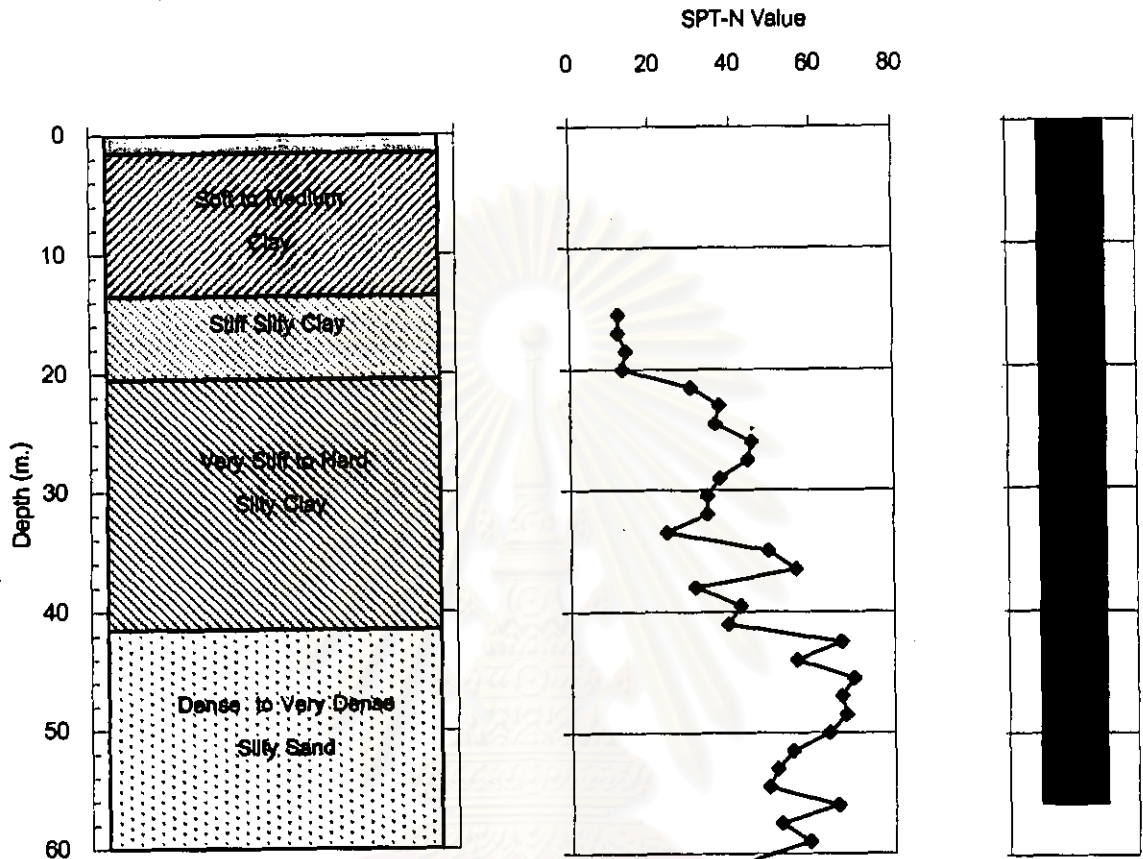


TEST PILE : BP-7

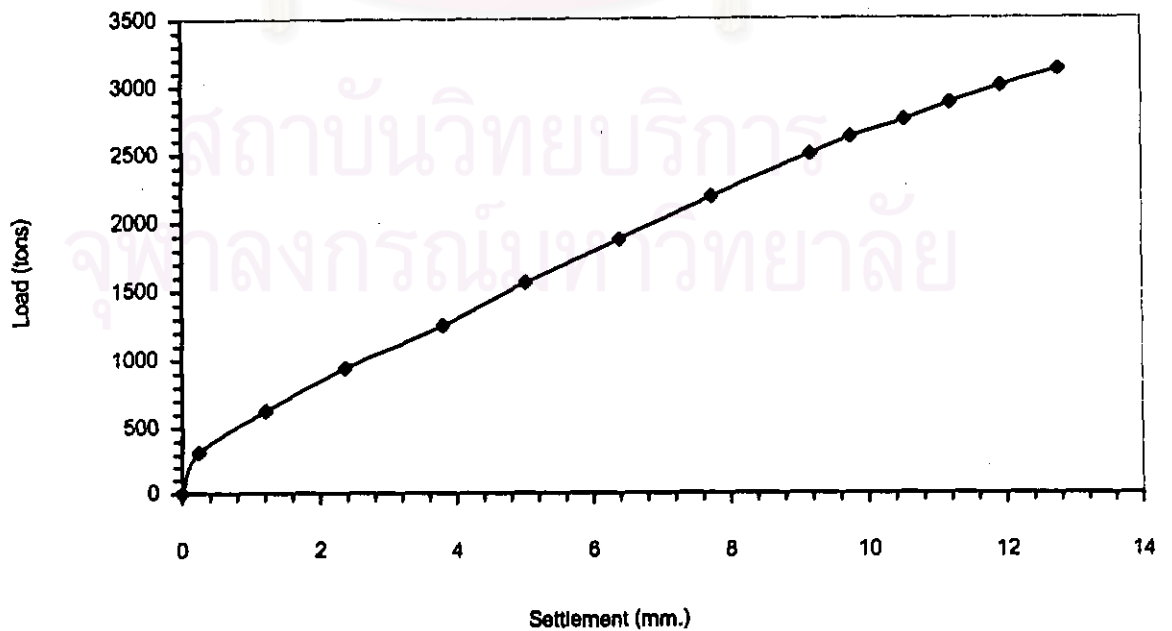
SIZE : 0.80 x 2.7 x 55.70 m.

PROJECT : Royal Rajdumri

CONDITION : Normal Barrette Pile



Load - Settlement Curve

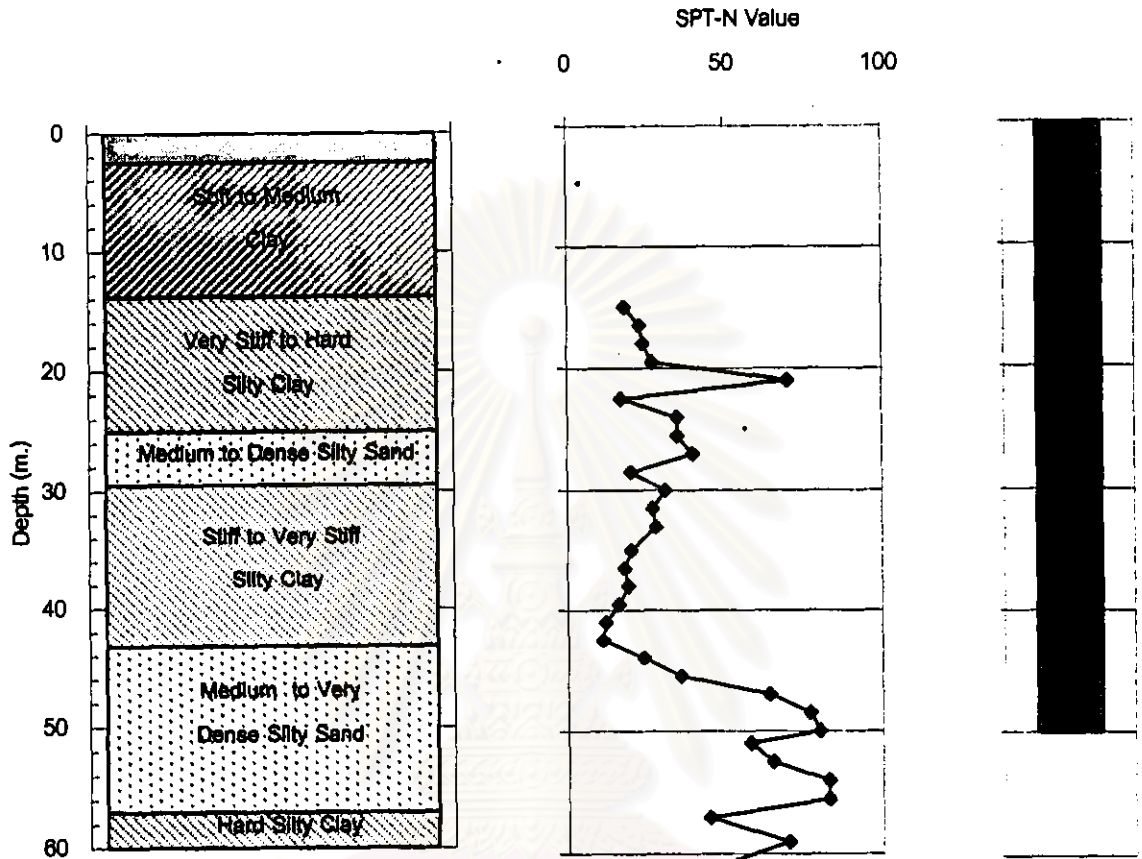


TEST PILE : BP-8

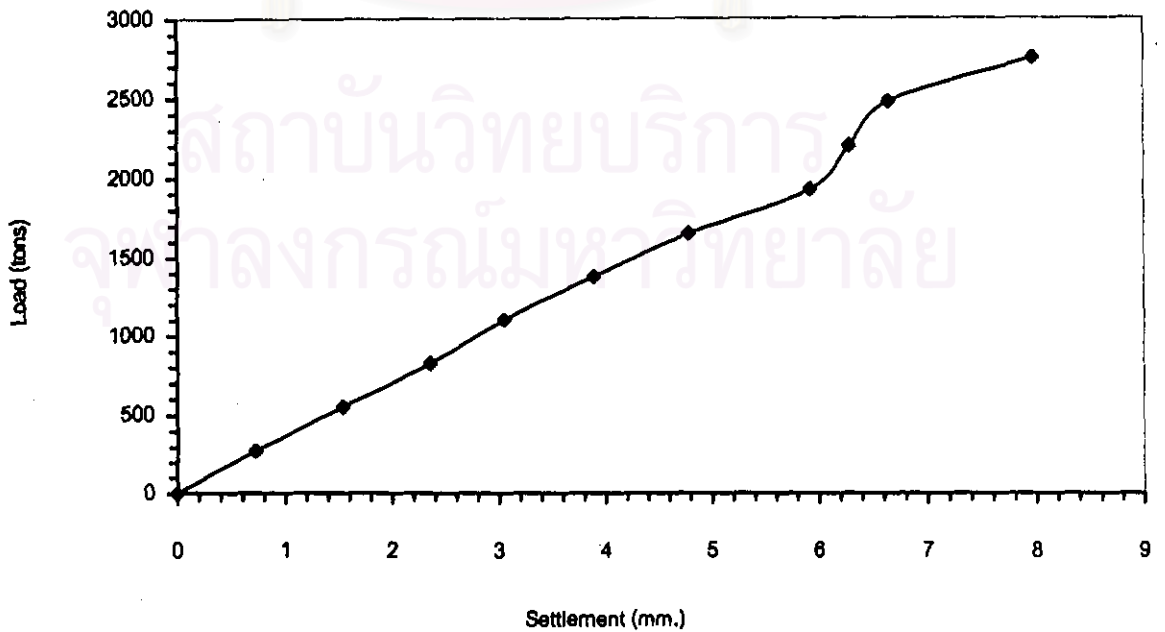
SIZE : 0.80 x 2.7 x 50.00 m.

PROJECT : Vipavadee ATM Tower

CONDITION : Normal Barrette Pile



Load - Settlement Curve

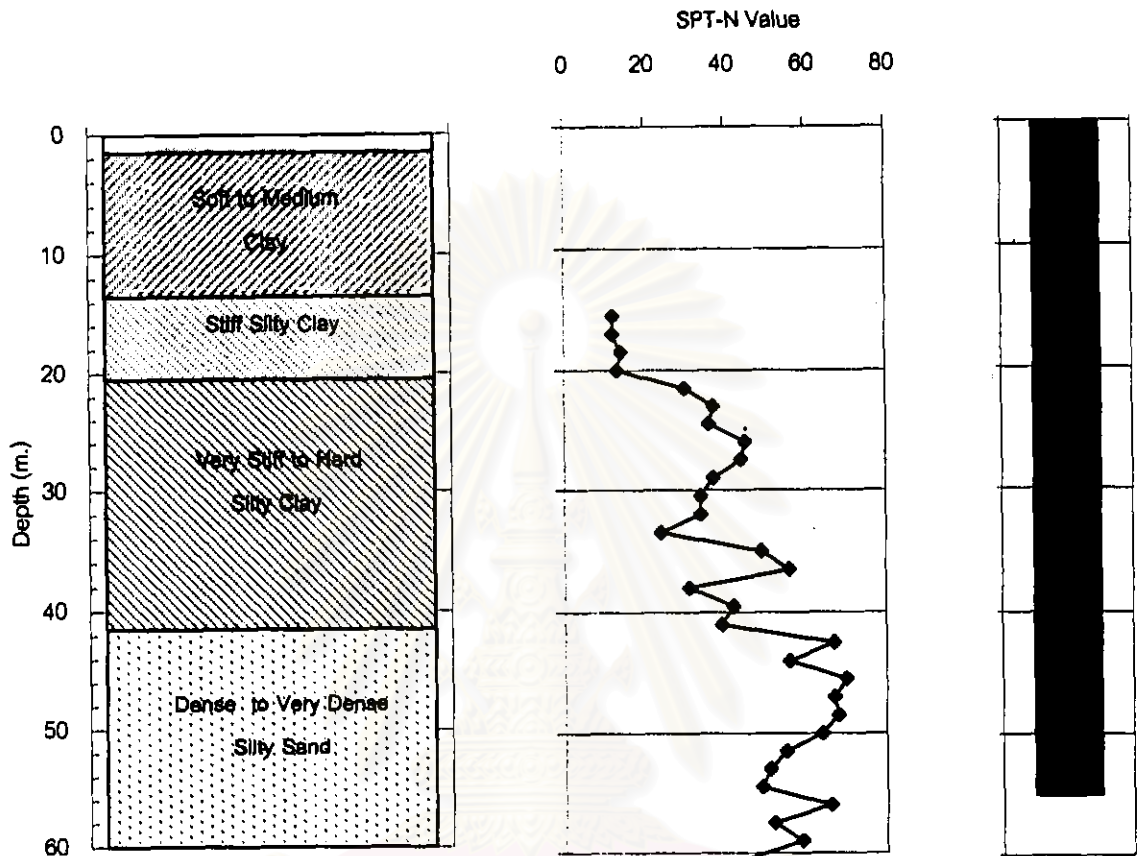


TEST PILE : BP-9

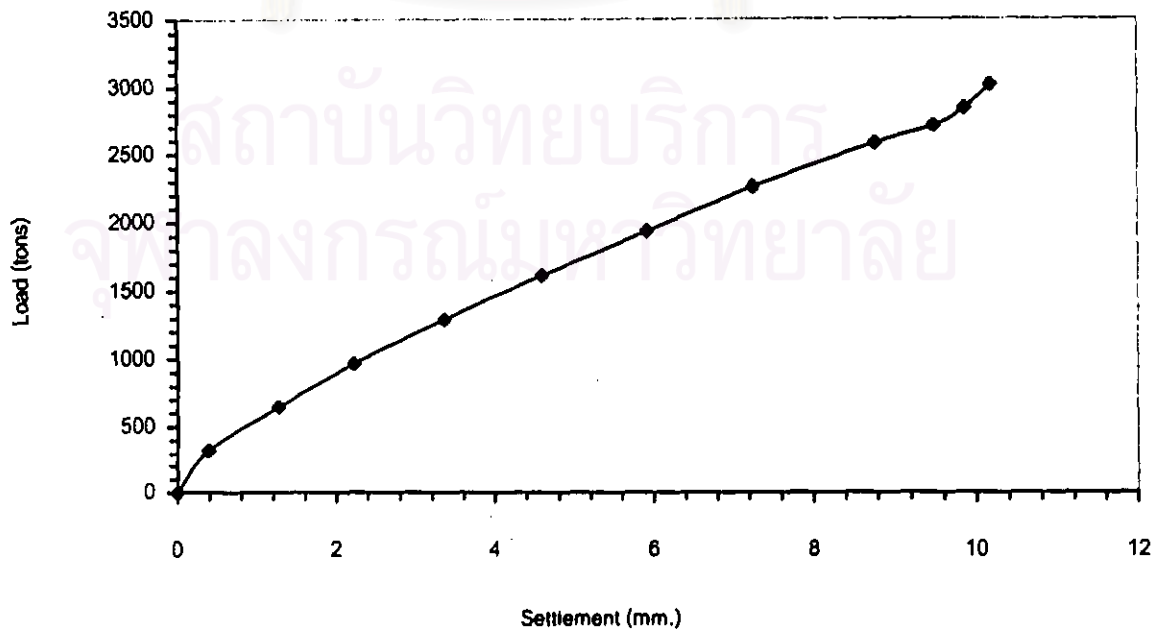
SIZE : 0.80 x 2.7 x 55.00 m.

PROJECT : Langsuan 658 Building

CONDITION : Normal Barrette Pile



Load - Settlement Curve

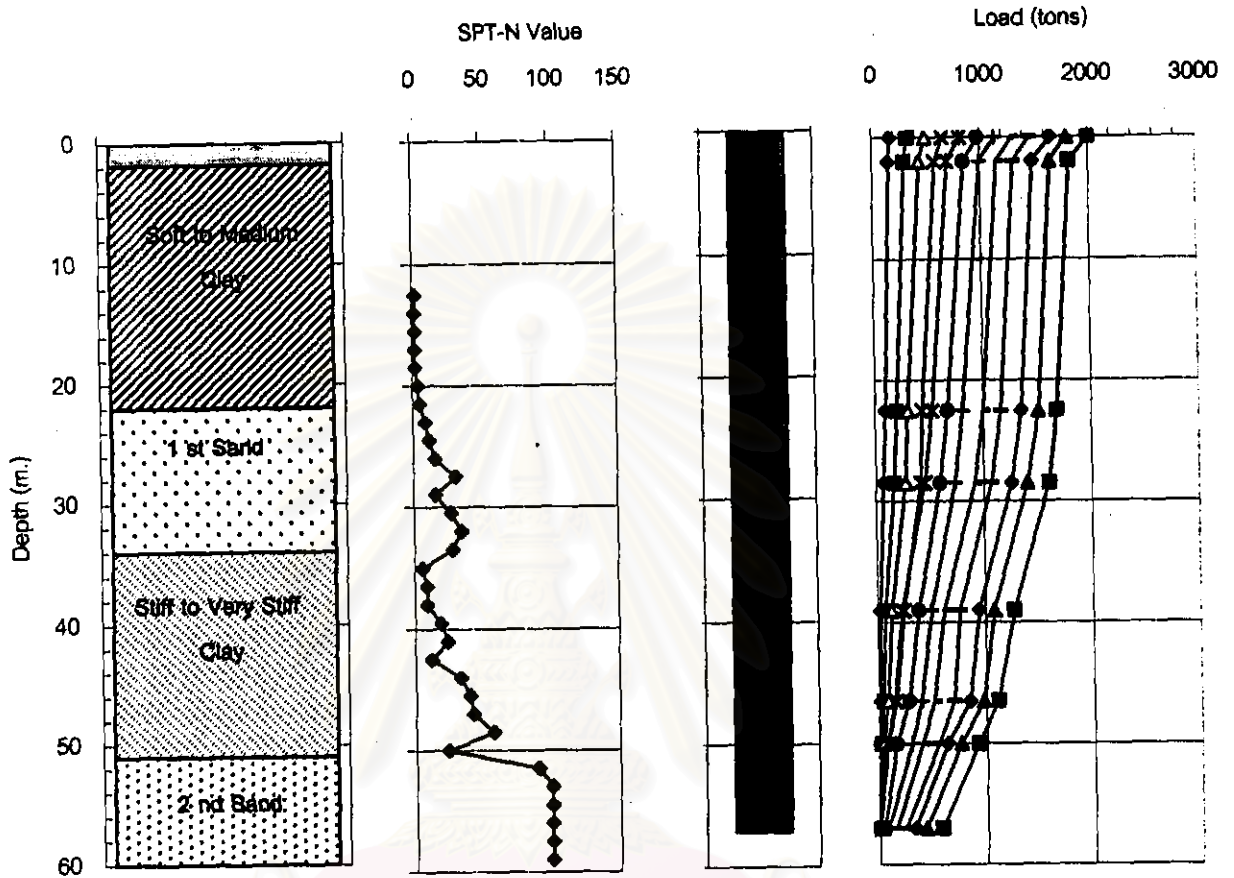


TEST PILE : TP - 1

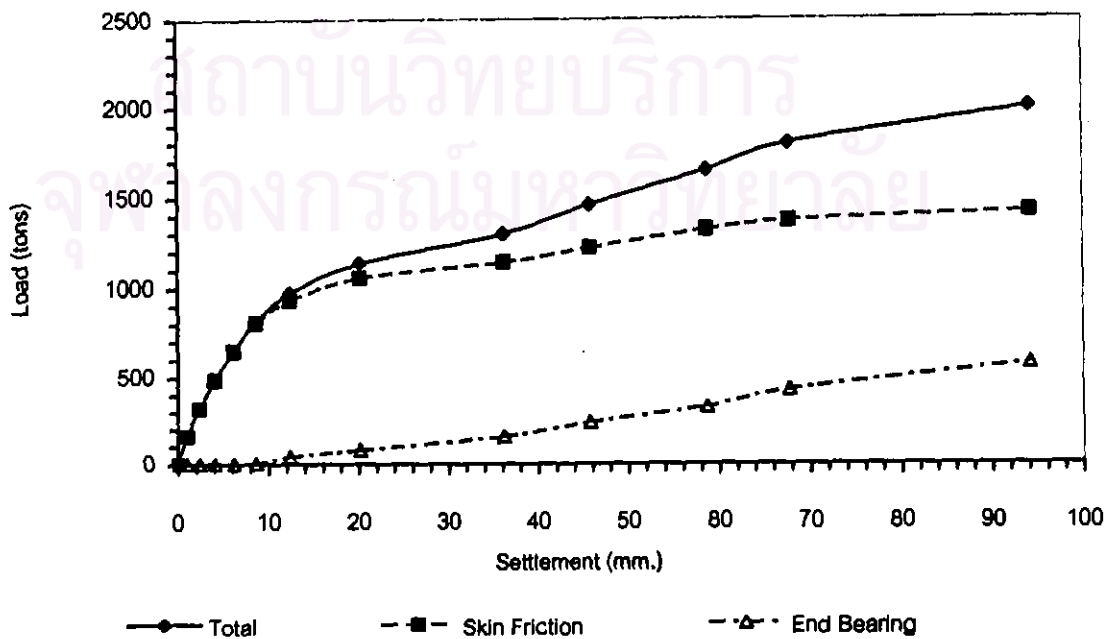
SIZE : Dia 1.20 x 57.10 m.

PROJECT : Bangna-Bangpli-Bangpakong Expressway

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 1

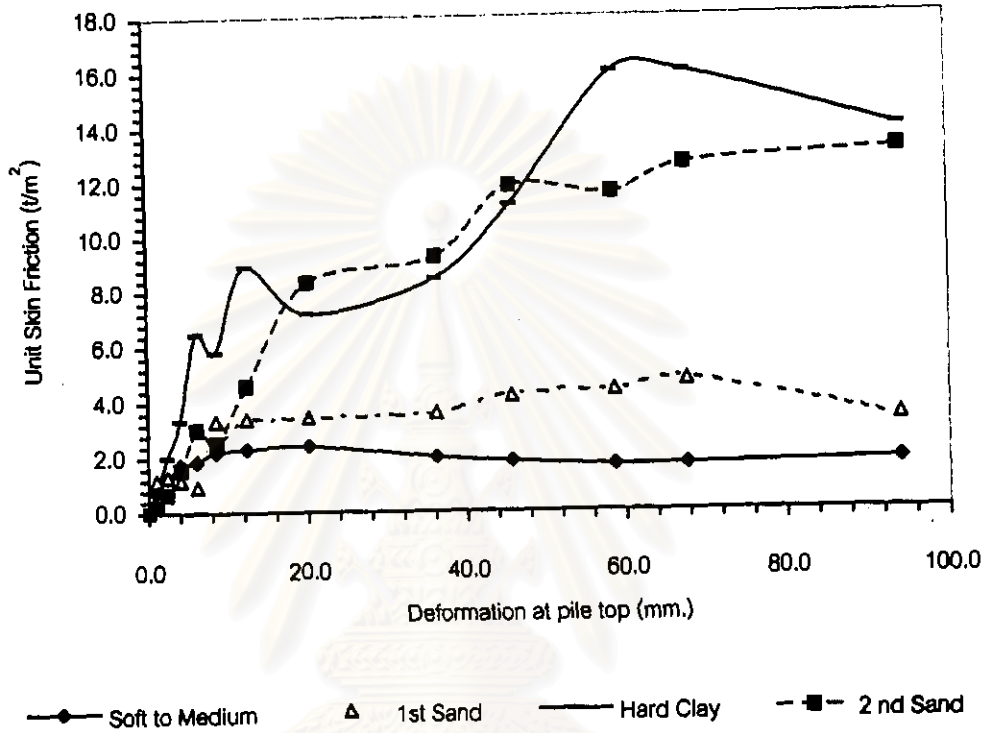
SIZE : Dia 1.20 x 57.10 m.

PROJECT : Bangna-Bangpli-Bangpakong Expressway

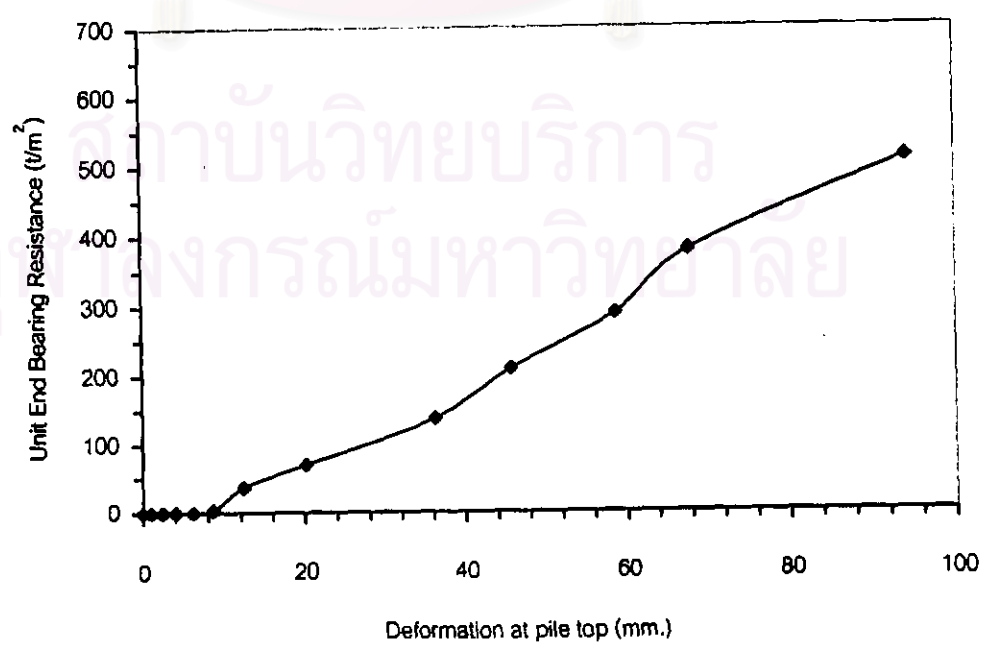
CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 1100 tons

Deformation at Q_{ult} 18.5 mm.



● Soft to Medium △ 1st Sand — Hard Clay -■- 2nd Sand

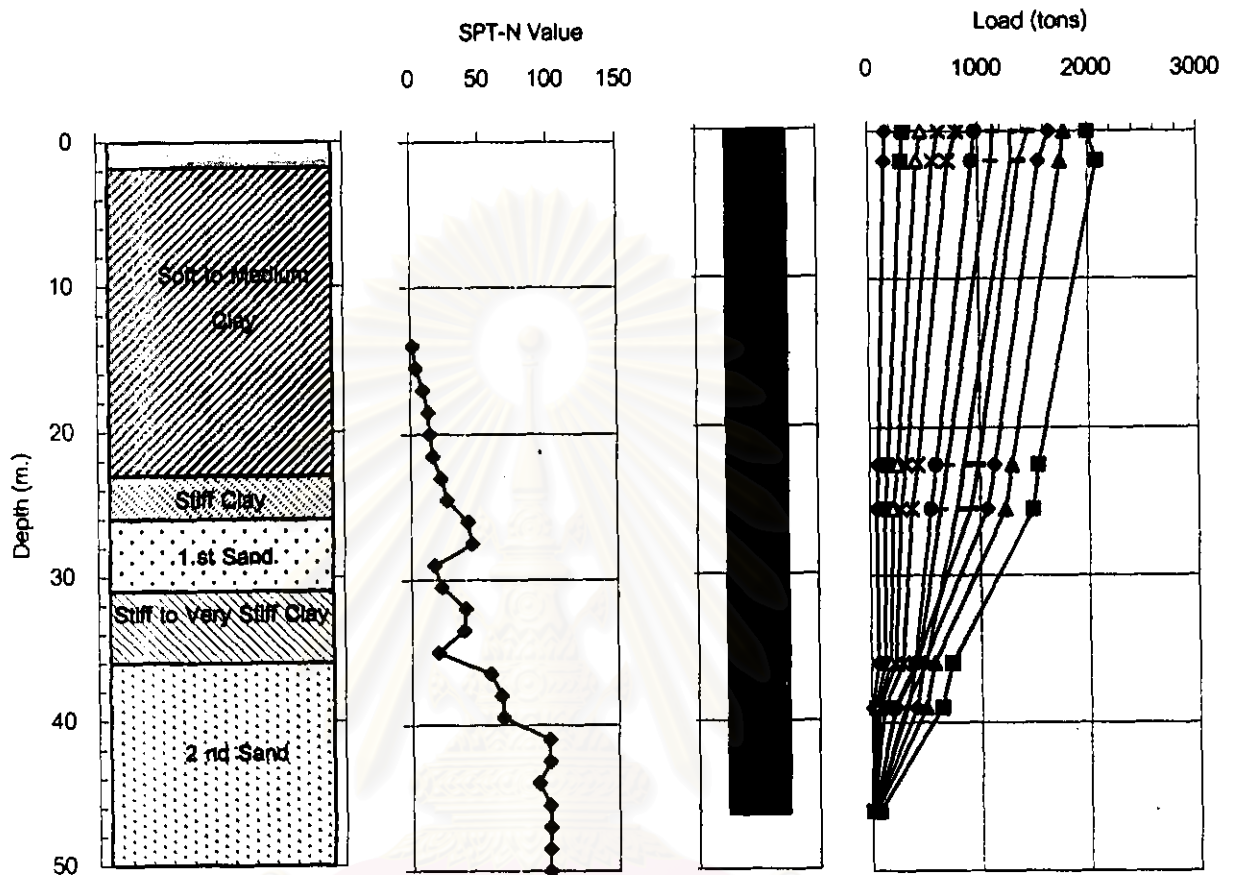


TEST PILE : TP - 2

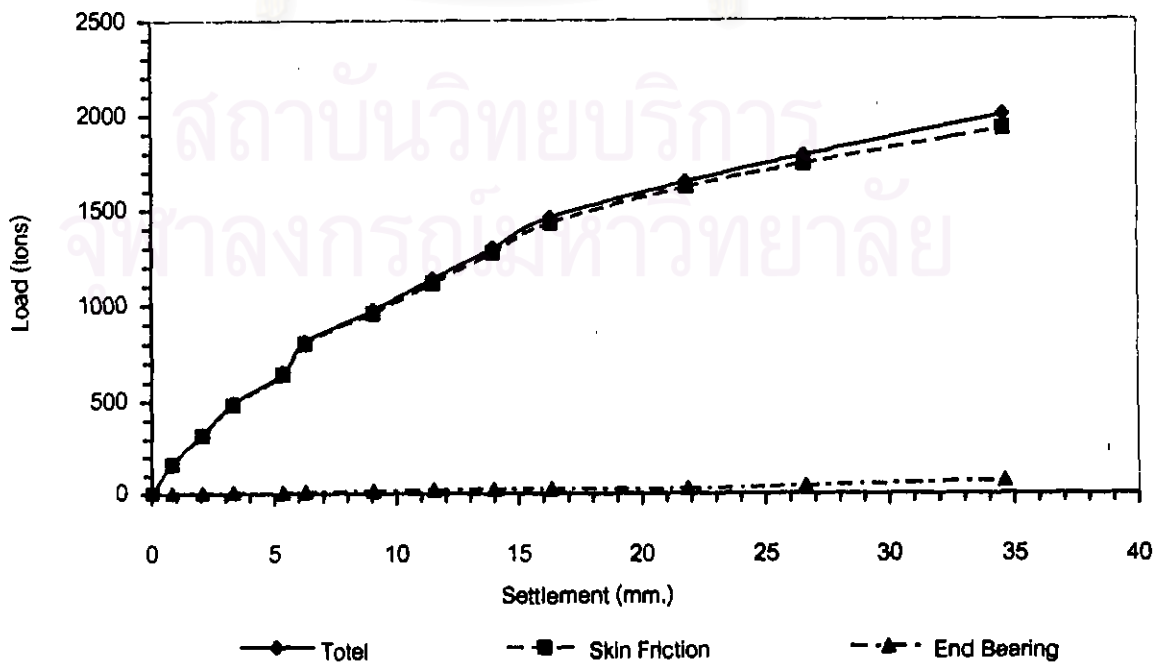
SIZE : Dia 1.20 x 46.25 m.

PROJECT : Bangna-Bangpli-Bangpakong Expressway

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 2

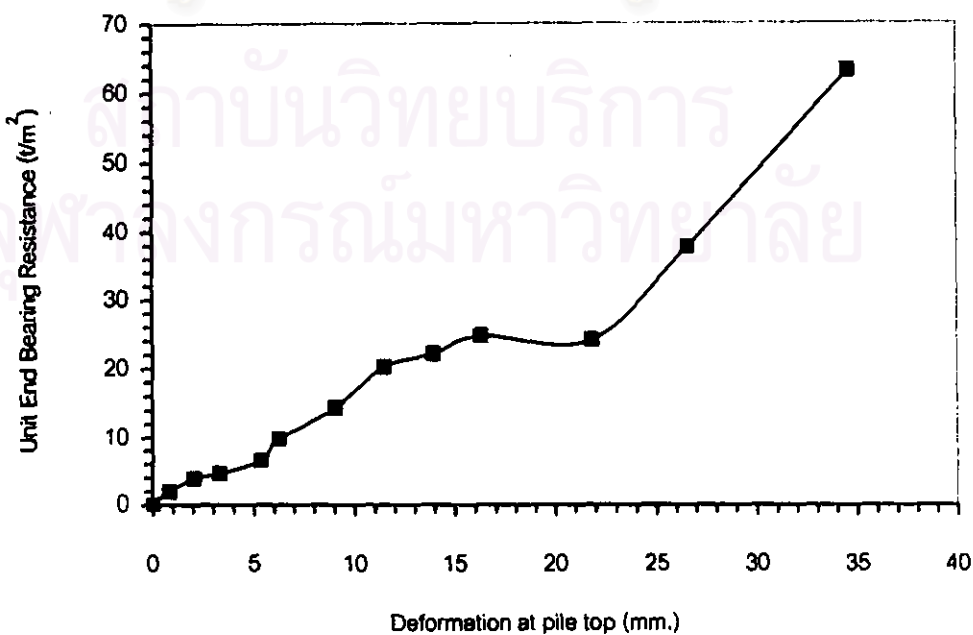
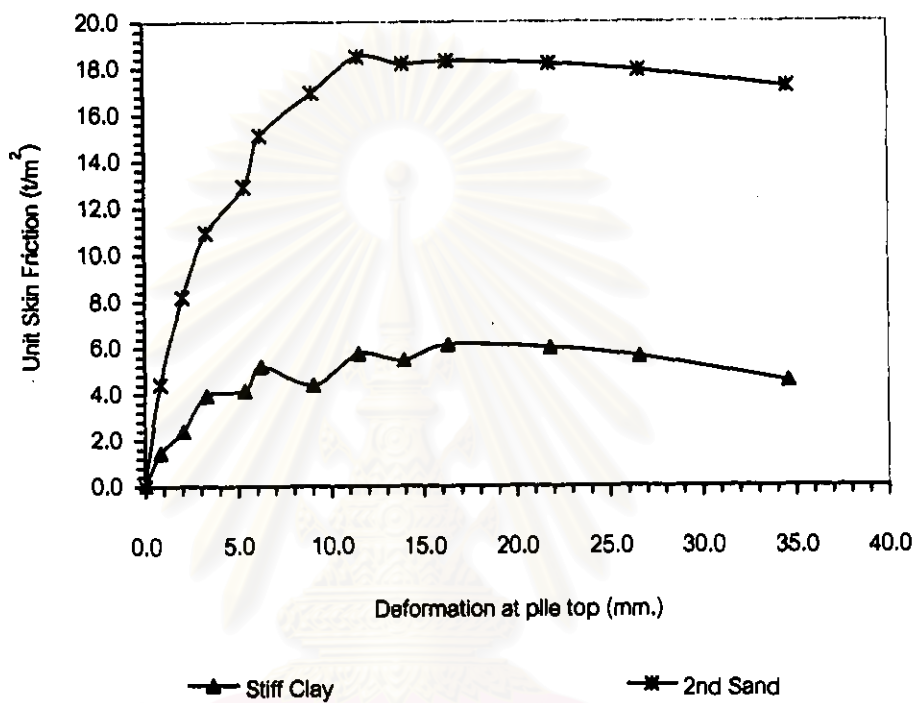
SIZE : Dia 1.20 x 46.25 m.

PROJECT : Bangna-Bangpli-Bangpakong Expressway

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 1818 tons

Deformation at Q_{ult} 27.5 mm.

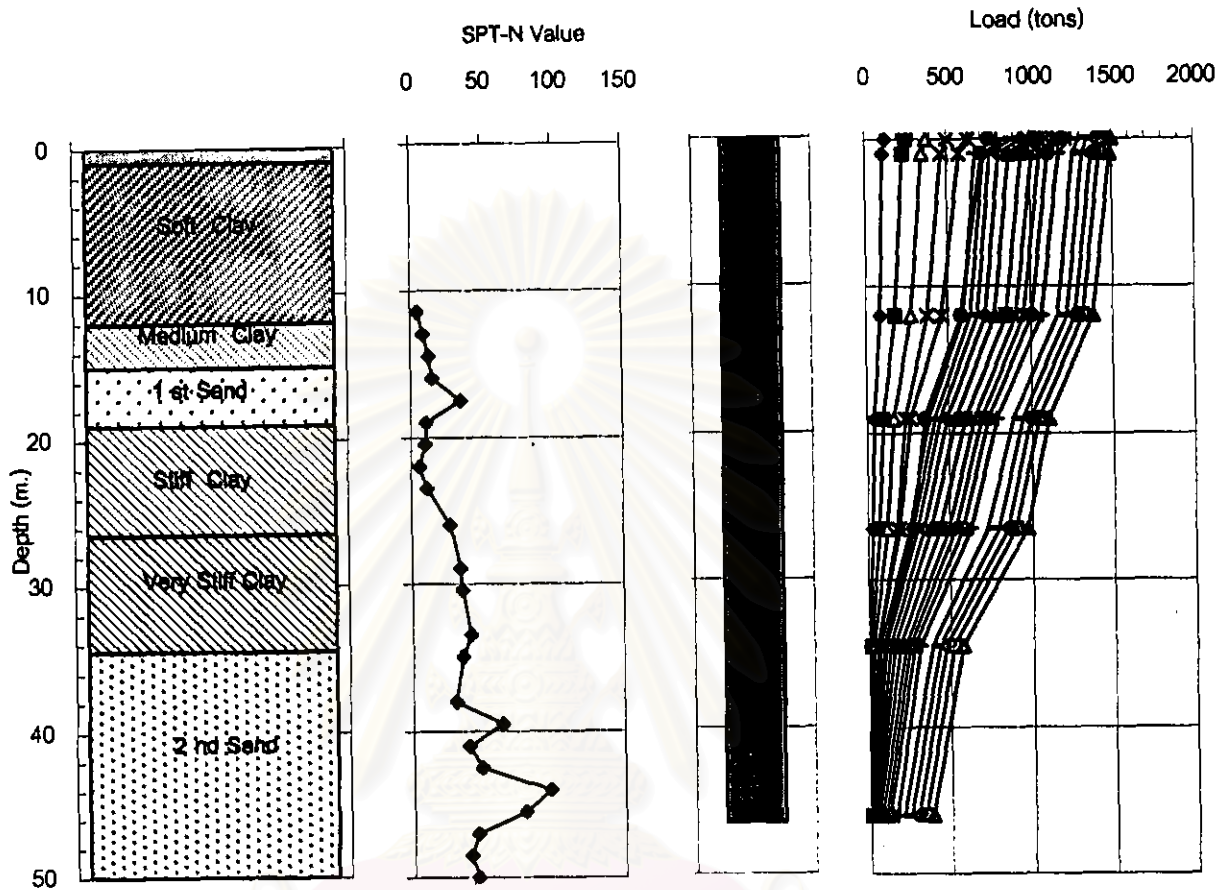


TEST PILE : TP-3

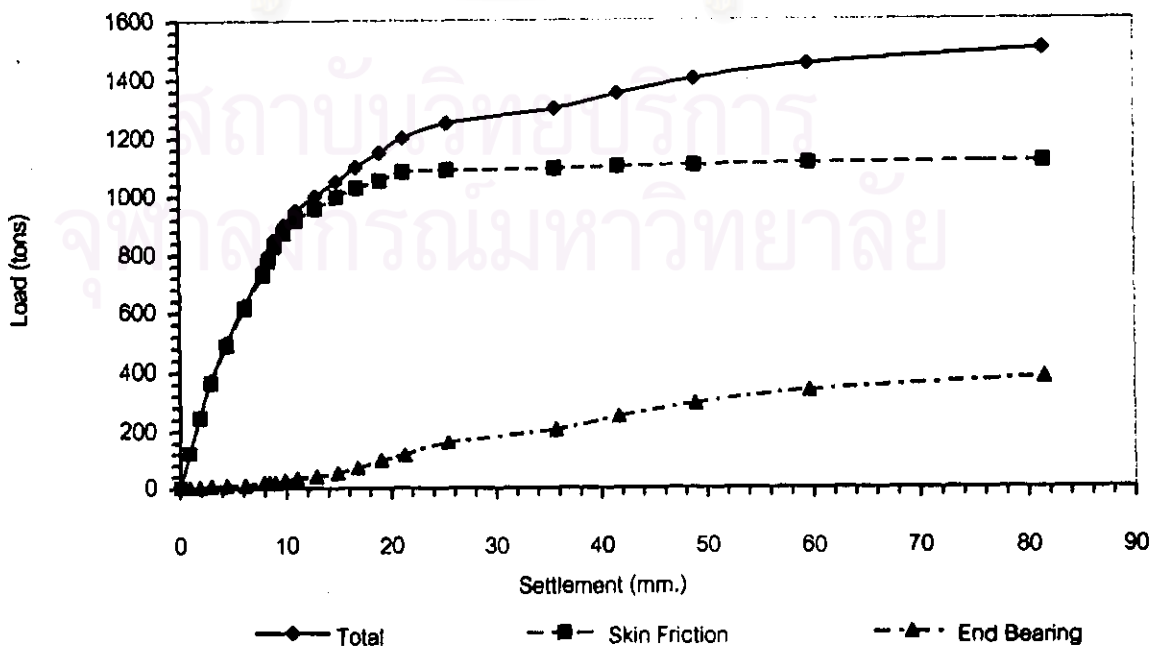
SIZE : Dia 1.00 x 46.51 m.

PROJECT : Bang Pa In - Pak Kret Expressway

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 3

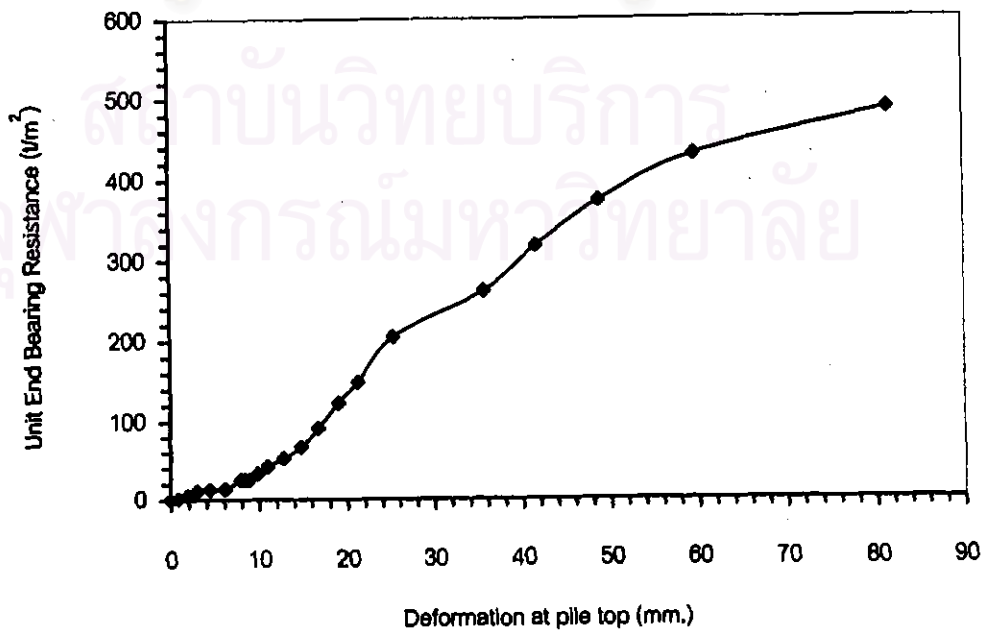
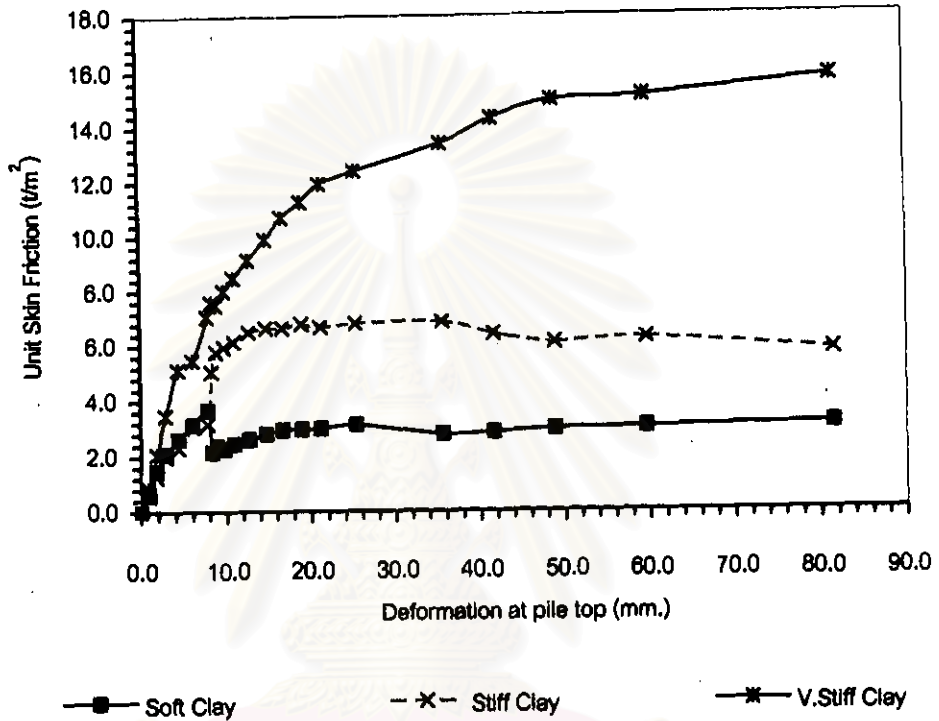
SIZE : Dia 1.00 x 46.51 m.

PROJECT : Bang Pa In - Pak Kret Expressway

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 1340 tons

Deformation at Q_{ult} 41 mm.

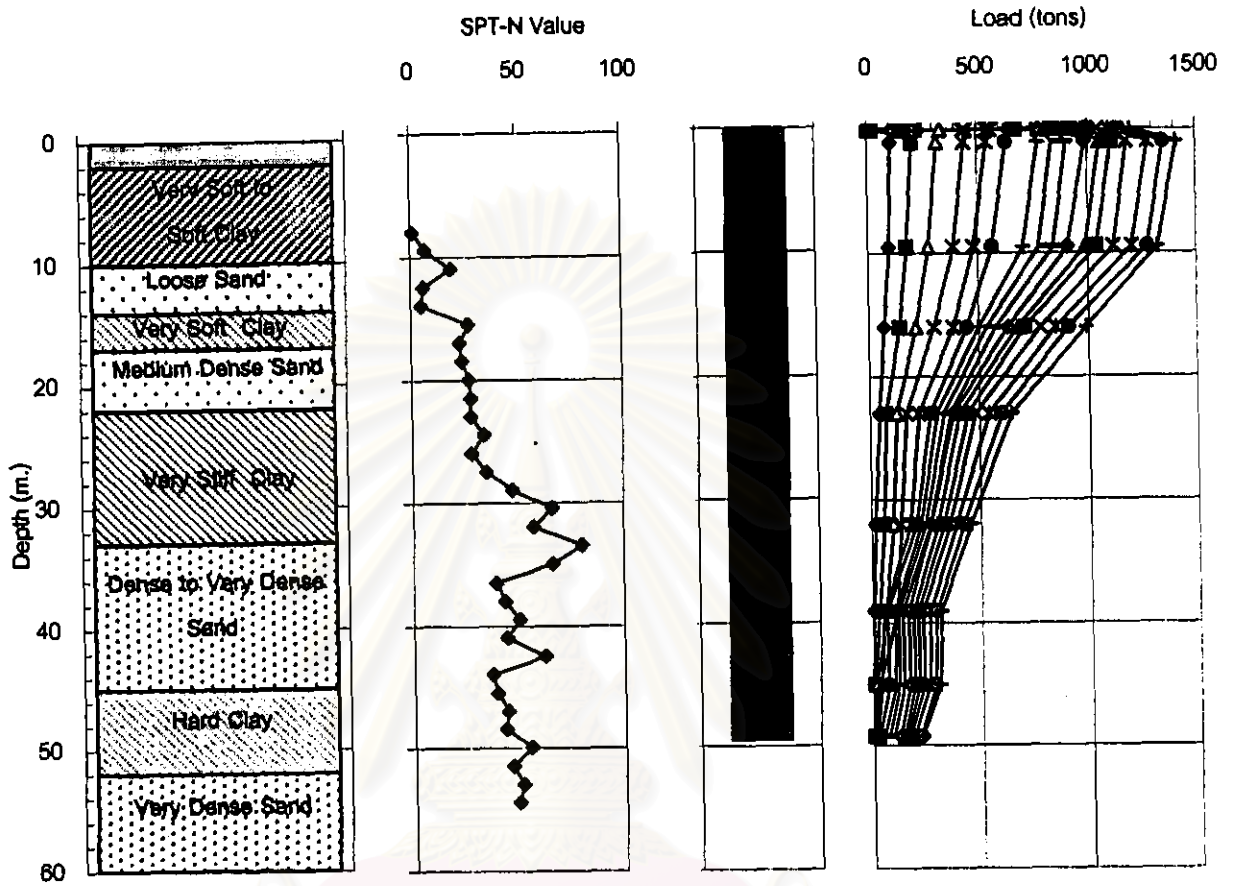


TEST PILE : TP - 4

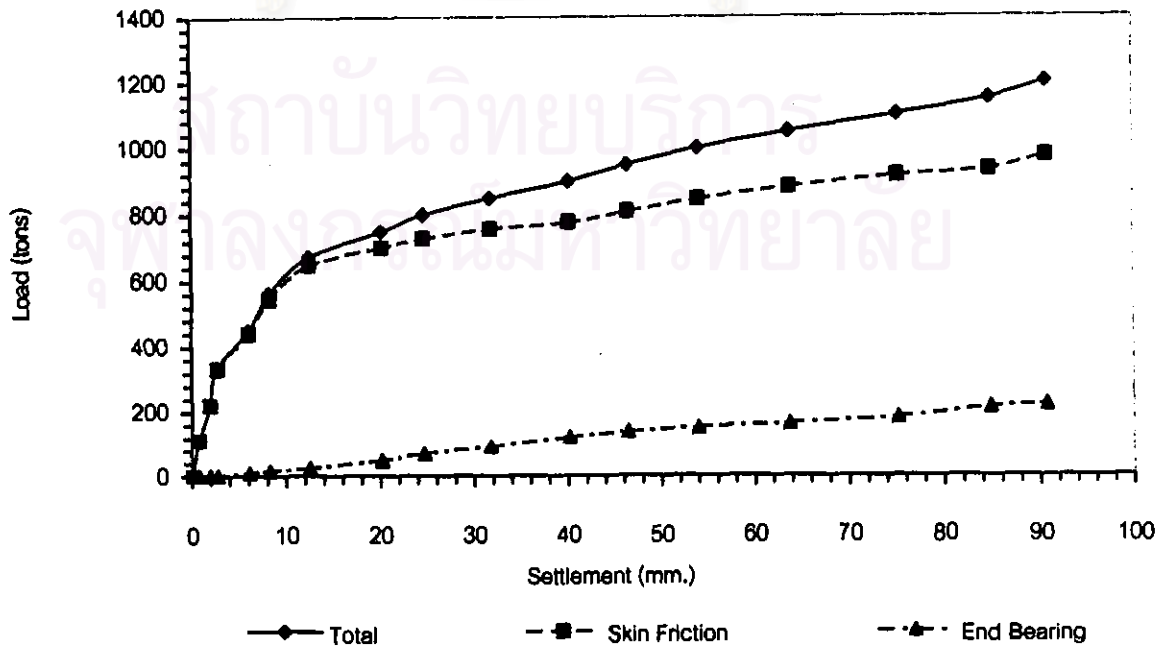
SIZE : Dia 1.00 x 49.47 m.

PROJECT : Bangna-Bangpli-Bangpakong Expressway

CONDITION : Normal Pile (Tip in Clay)



Load - Settlement Curve



TEST PILE : TP - 4

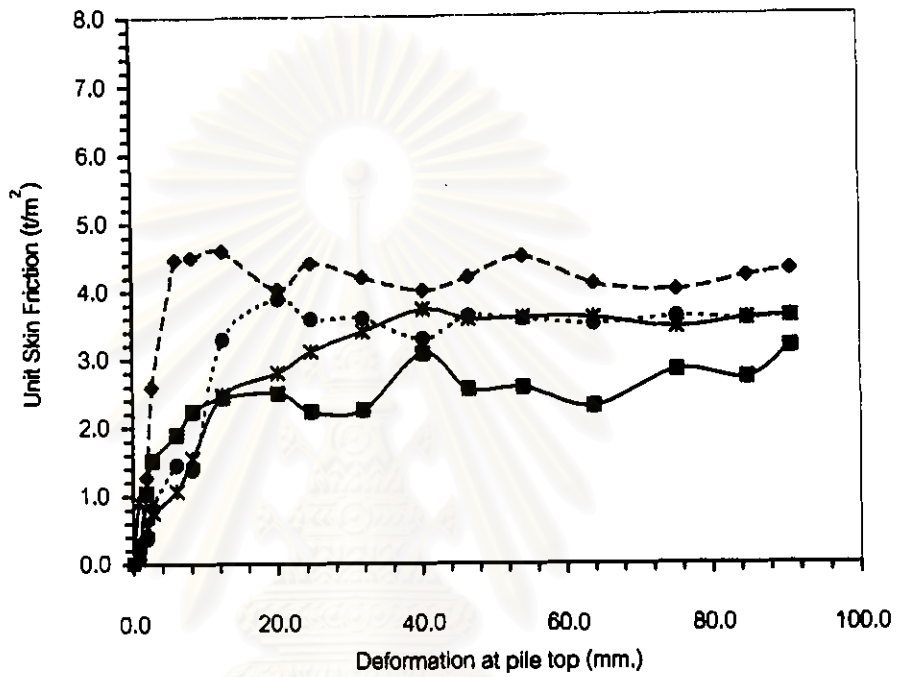
SIZE : Dia 1.00 x 49.47 m.

PROJECT : Bangna-Bangpli-Bangpakong Expressway

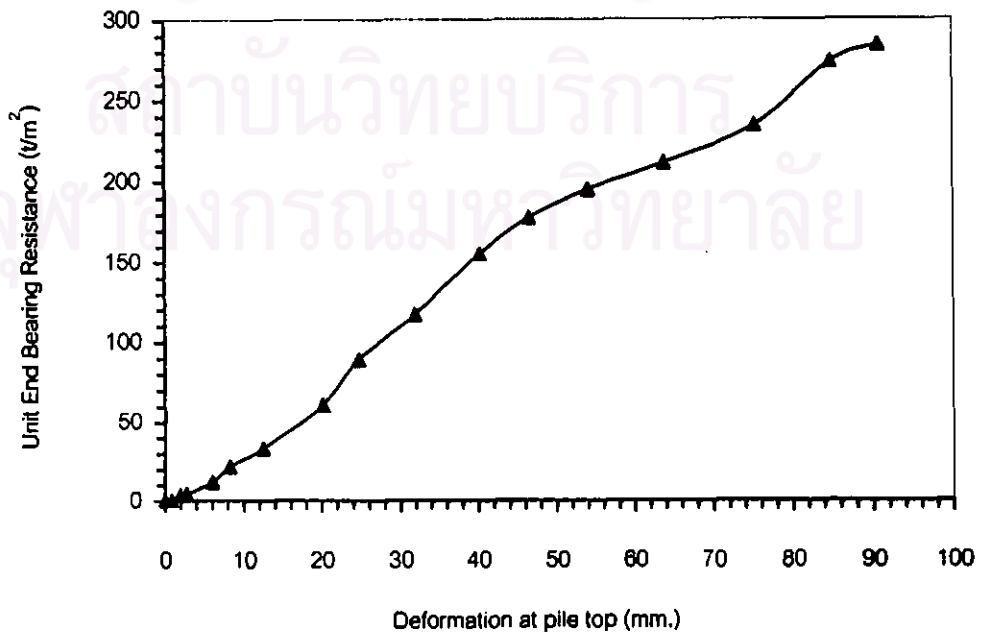
CONDITION : Normal Pile (Tip in Clay)

Q_{ult} (Butler & Hoy (1977)) 960 tons

Deformation at Q_{ult} 51 mm.



V.Soft to Soft Clay
 V.Stiff to Hard Clay
 Dense to V.Dense Sand
 hard Clay

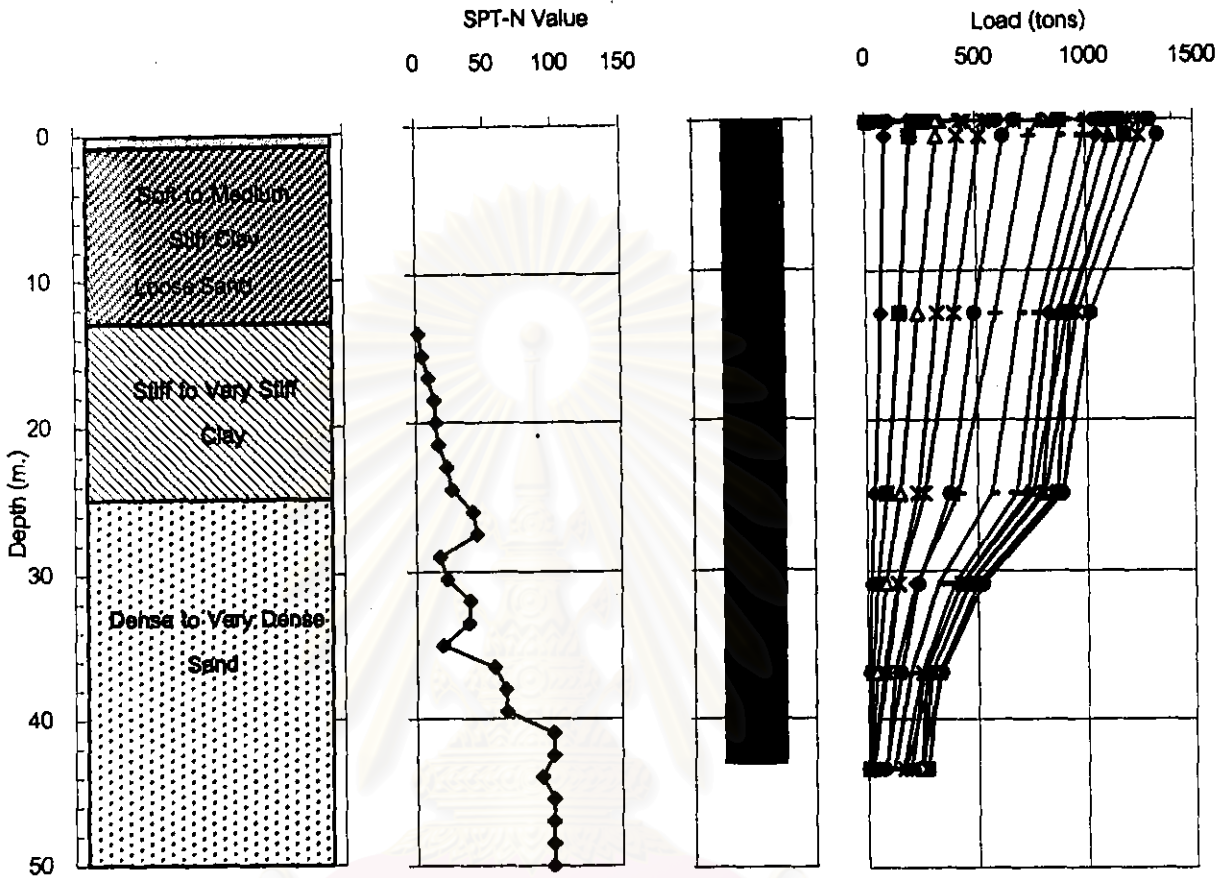


TEST PILE : TP - 5

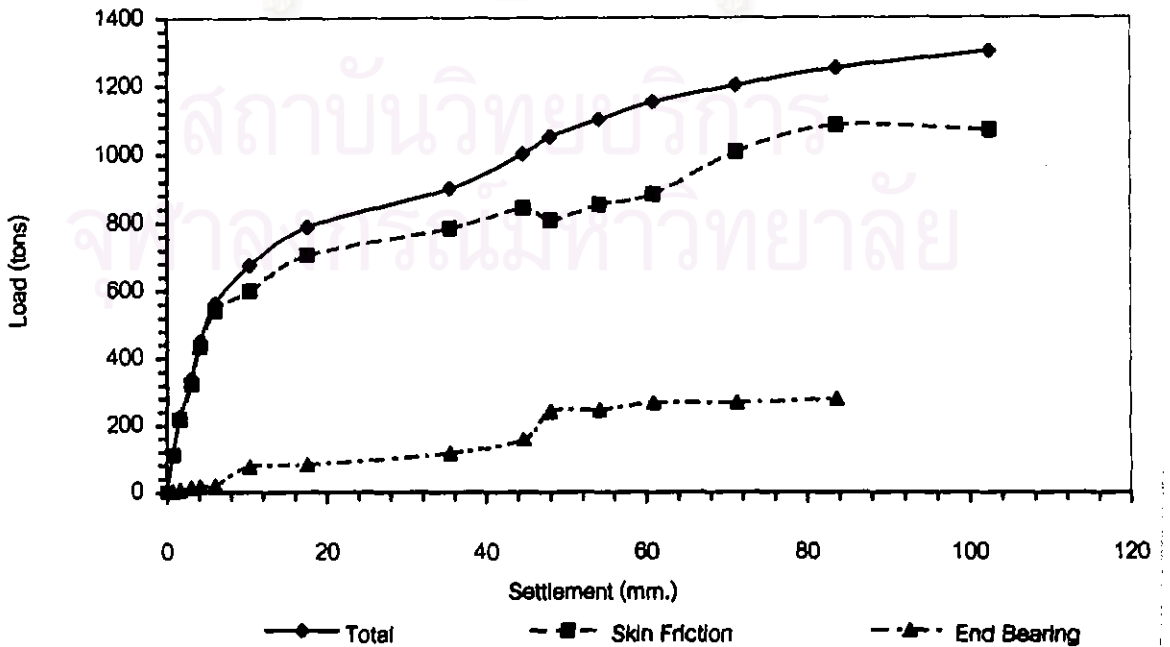
SIZE : Dia 1.00 x 43.00 m.

PROJECT : Second Stage Expressway System

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 5

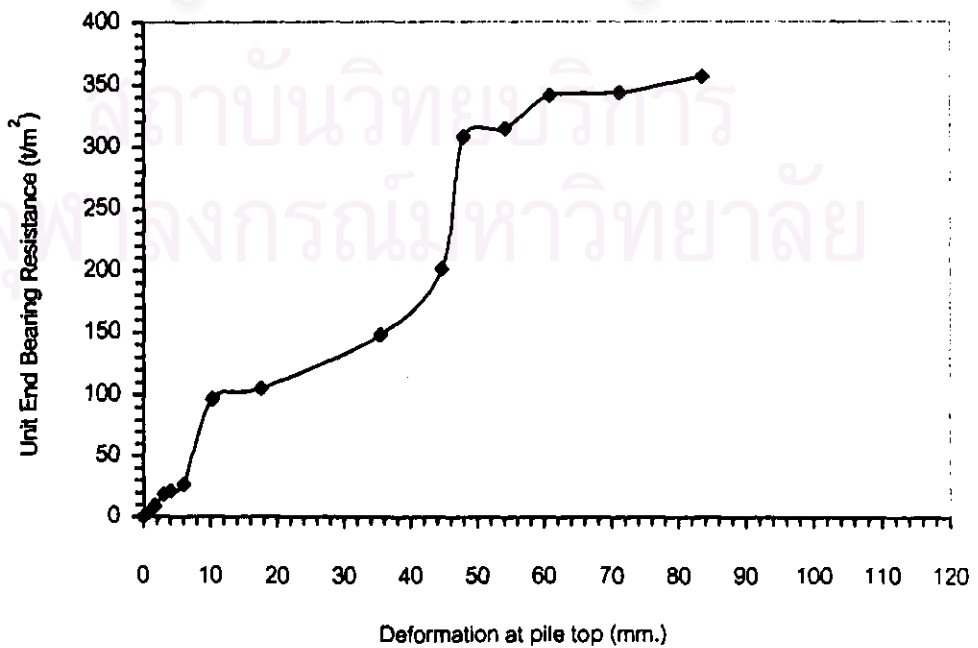
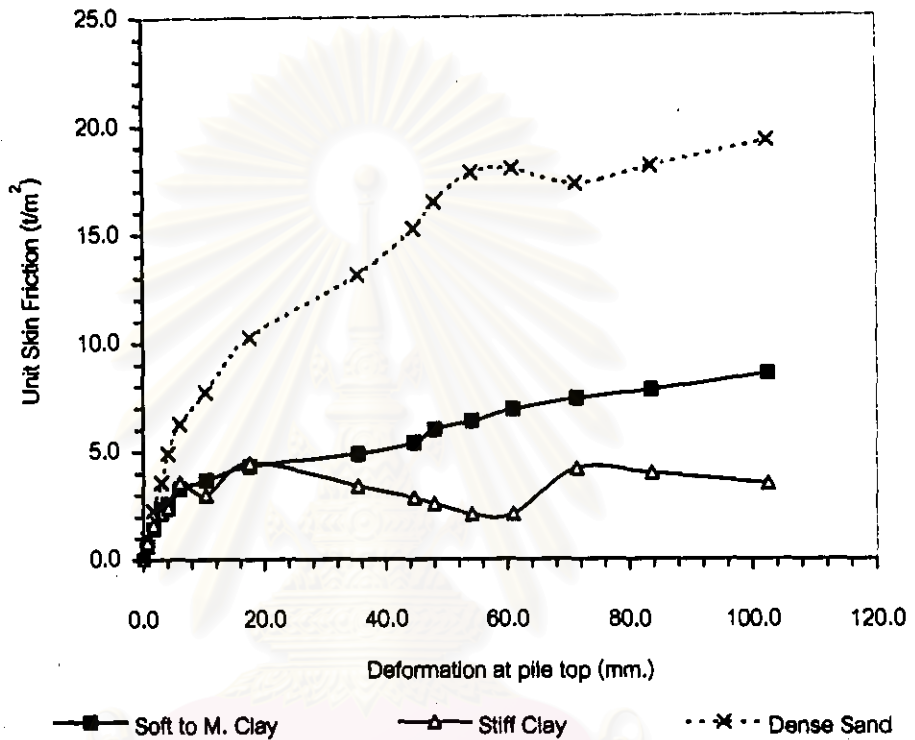
SIZE : Dia 1.00 x 43.00 m.

PROJECT : Second Stage Expressway System

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 920 tons

Deformation at Q_{ult} 26.8 mm.

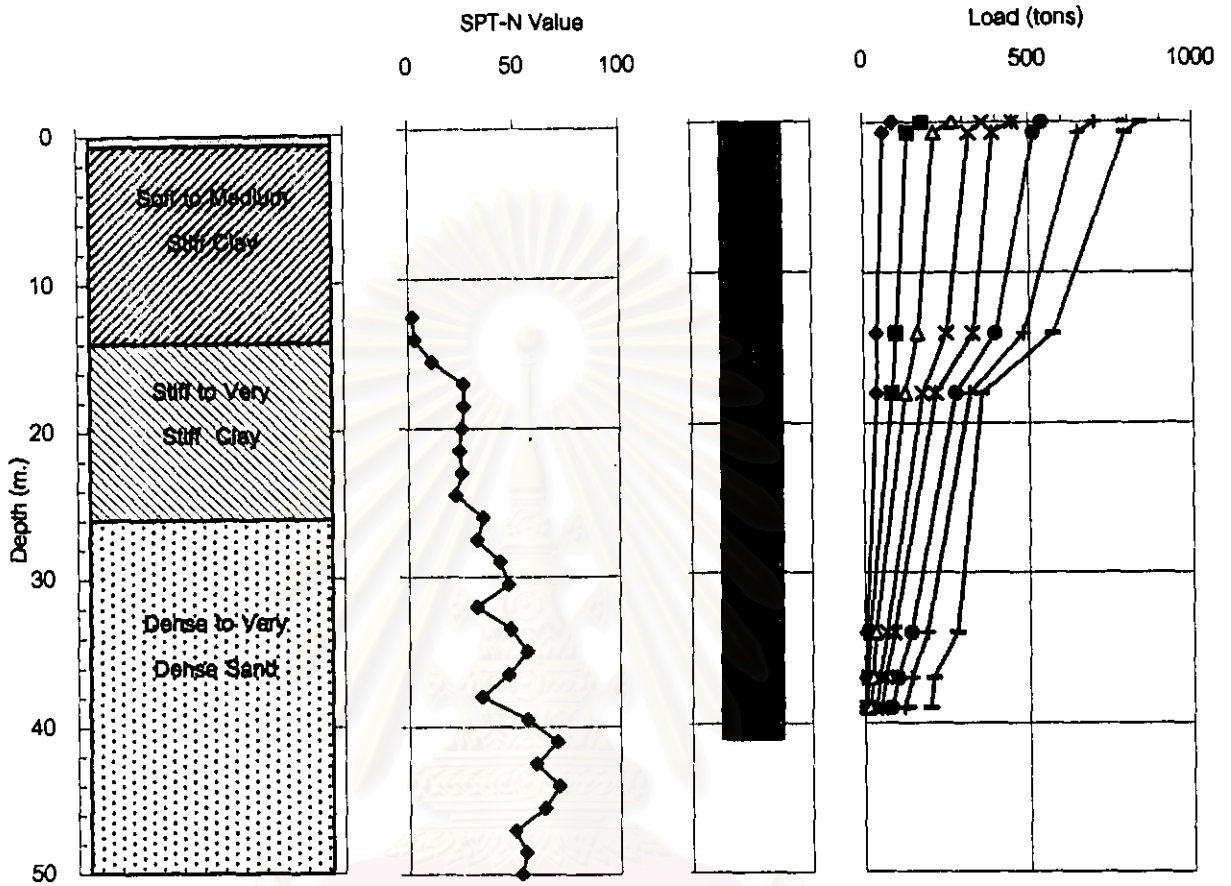


TEST PILE : TP - 6

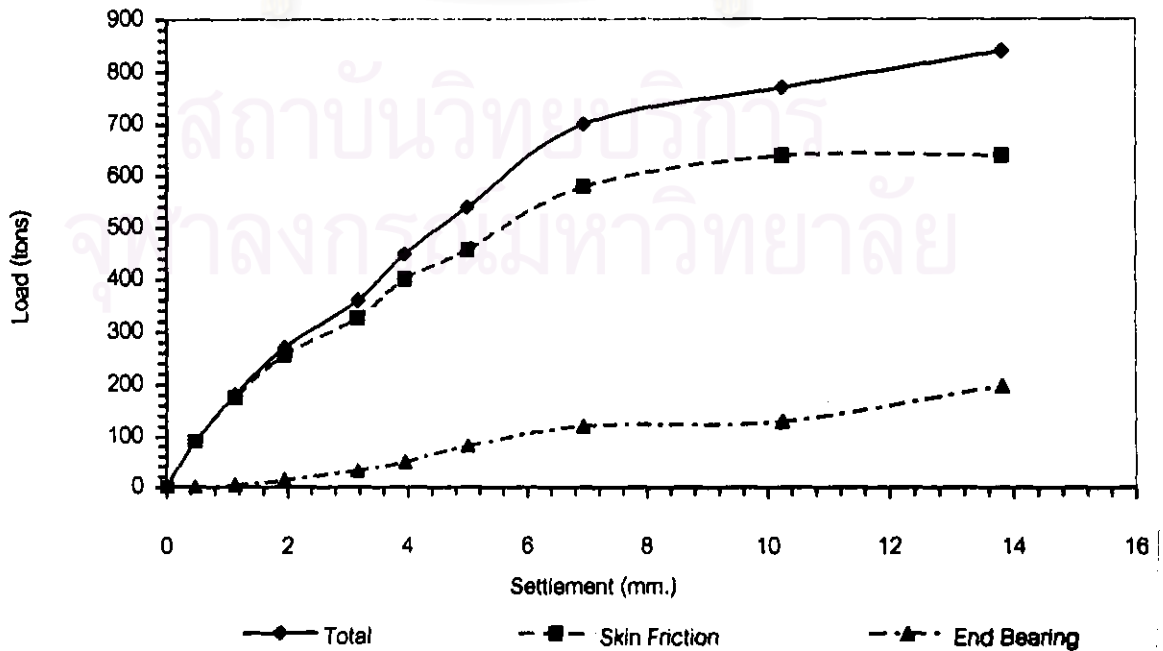
SIZE : Dia 1.00 x 41.00 m.

PROJECT : Second Stage Expressway System

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 6

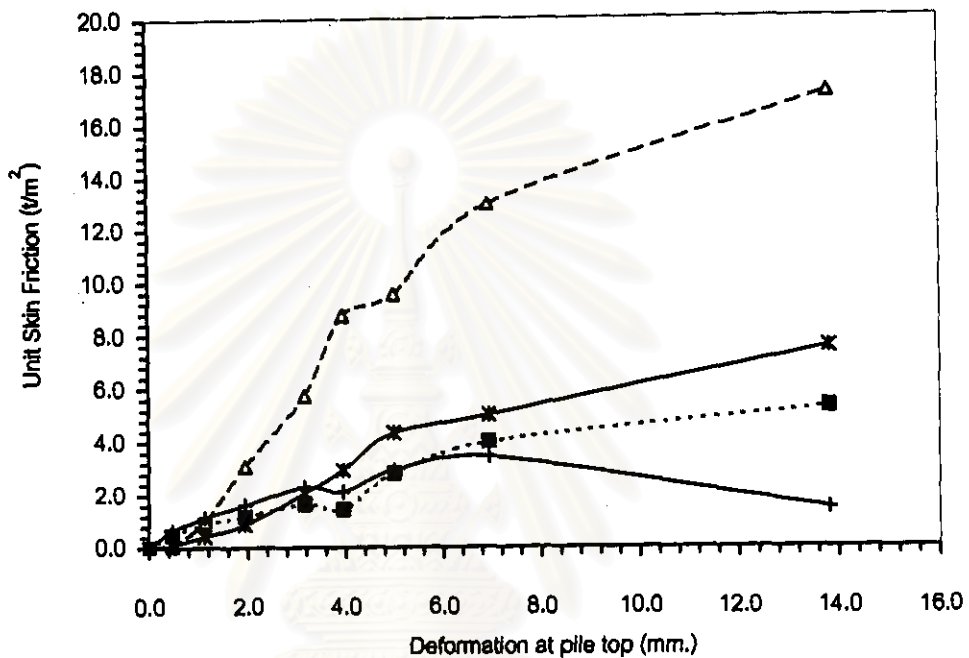
SIZE : Dia 1.00 x 41.00 m.

PROJECT : Second Stage Expressway System

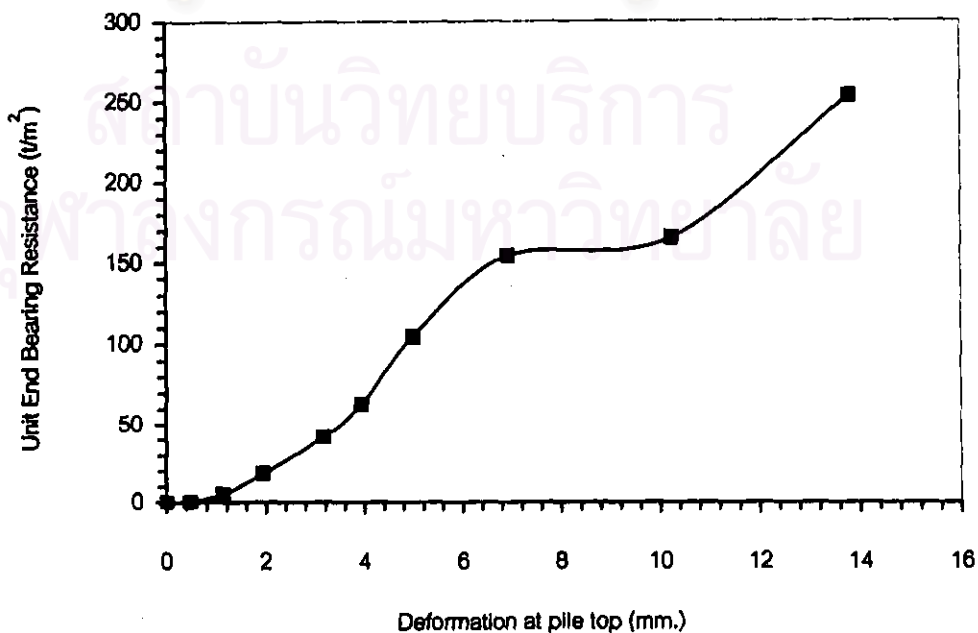
CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 850 tons

Deformation at Q_{ult} 13.8 mm.



---■--- Soft to M. Clay -△- Stiff to V. Stiff Clay -×- V. Dense Sand -+ Dense sand

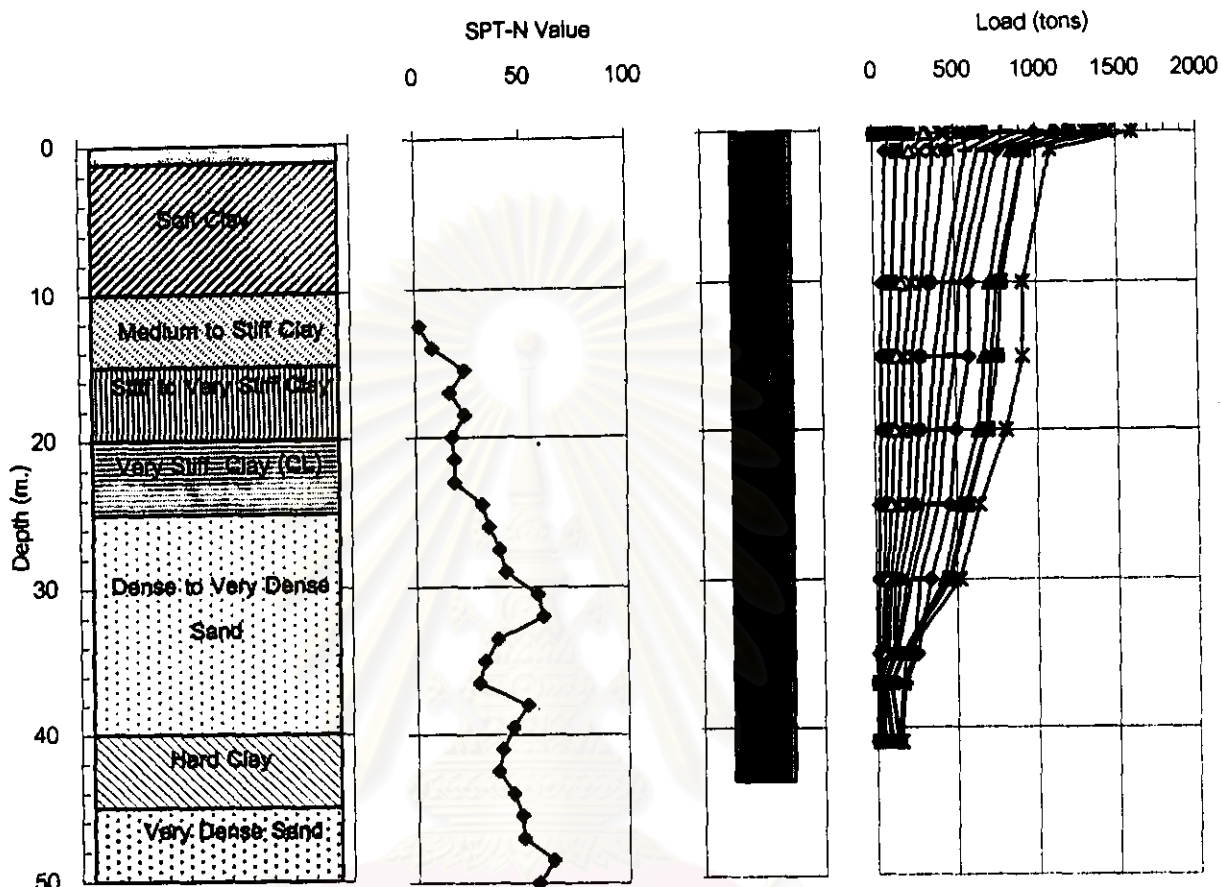


TEST PILE : TP - 7

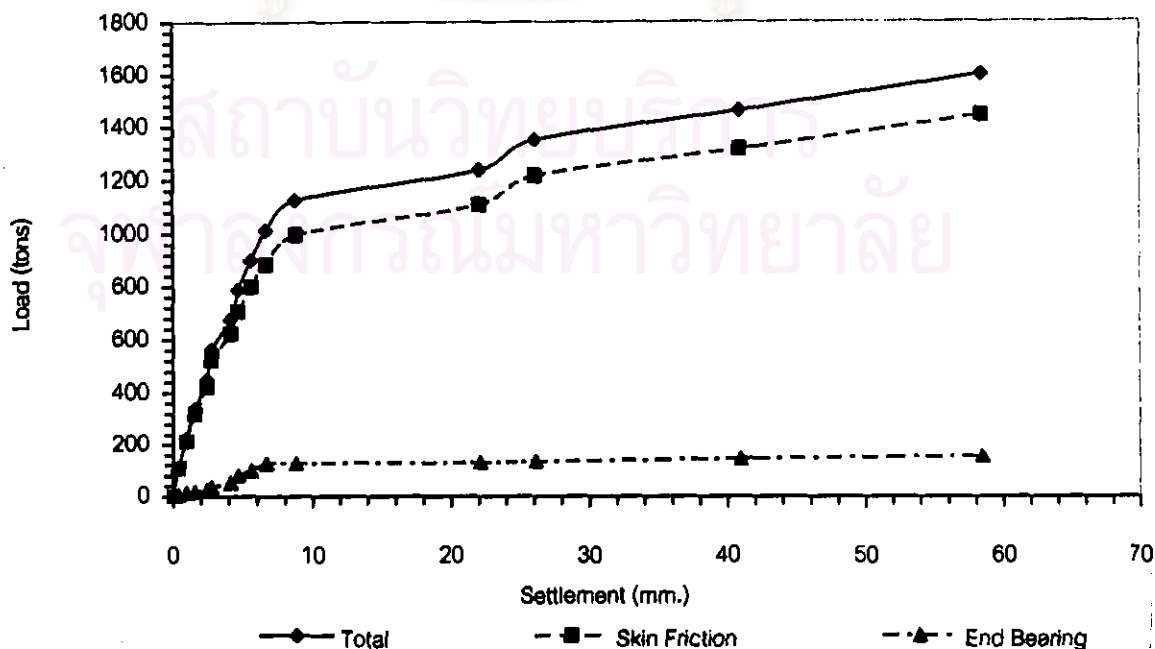
SIZE : Dia 1.20 x 43.60 m.

PROJECT : Bang Pa In - Pak Kret Expressway

CONDITION : Normal Pile (Tip in Clay)



Load - Settlement Curve



TEST PILE : TP - 7

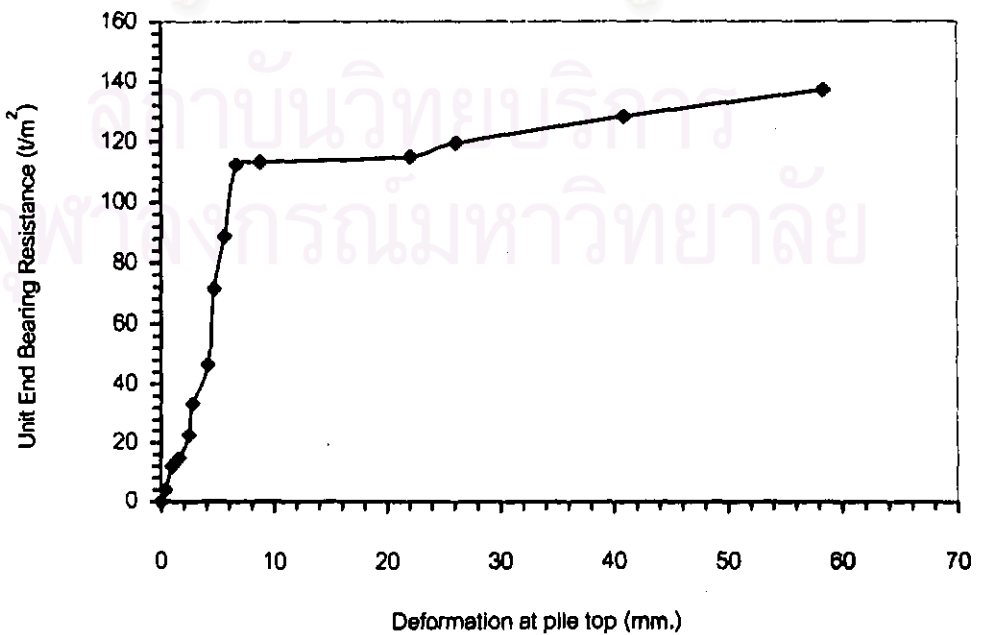
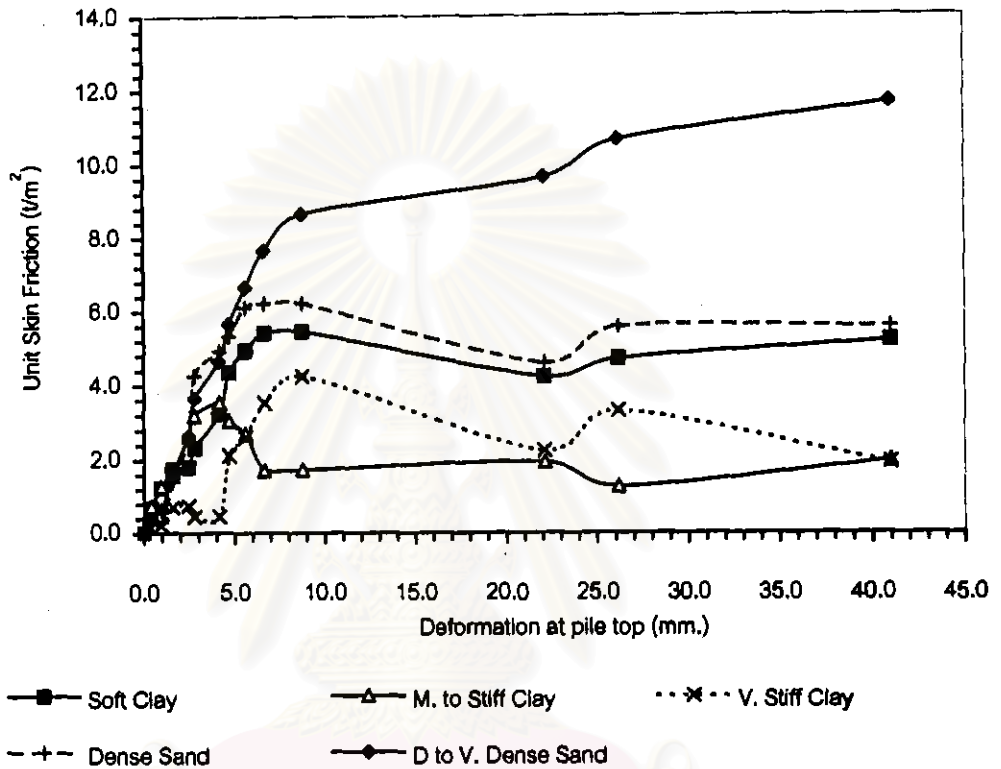
SIZE : Dia 1.20 x 43.60 m.

PROJECT : Bang Pa In - Pak Kret Expressway

CONDITION : Normal Pile (Tip in Clay)

Q_{ult} (Butler & Hoy (1977)) 1240 tons

Deformation at Q_{ult} 22 mm.

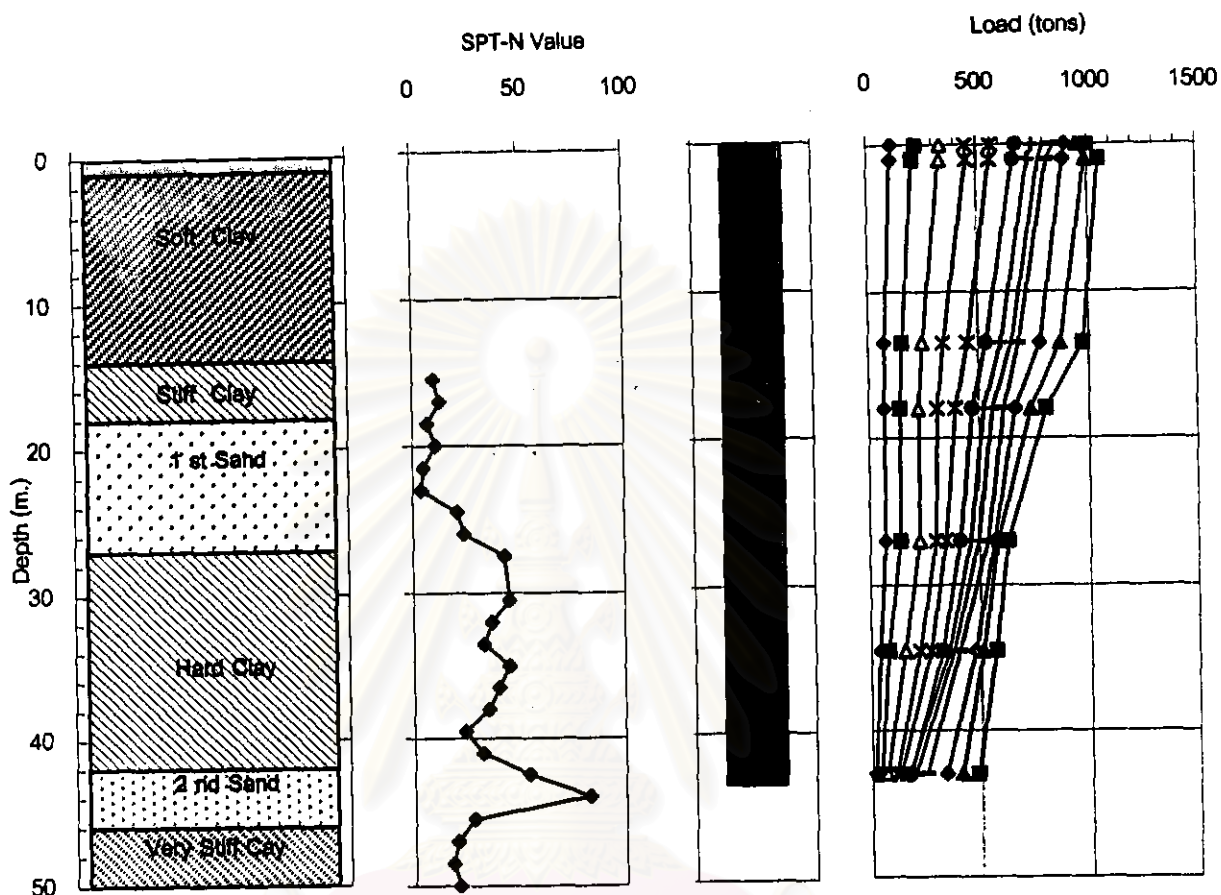


TEST PILE : TP - 8

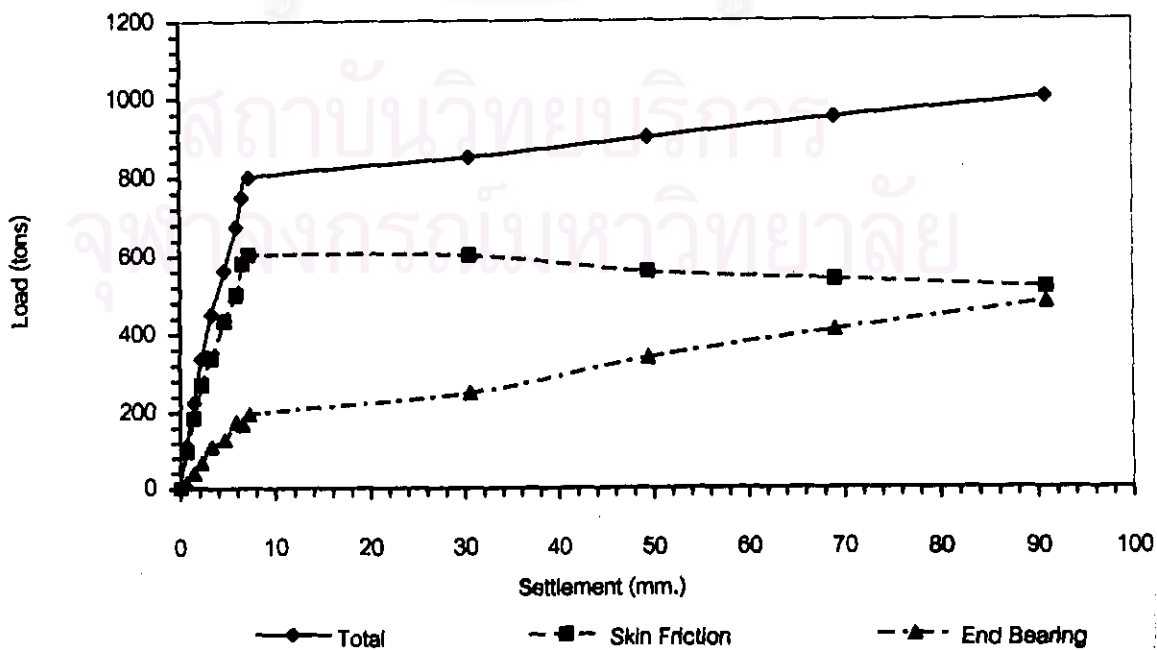
SIZE : Dia 1.20 x 43.50 m.

PROJECT : Bang Pa In - Pak Kret Expressway

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 8

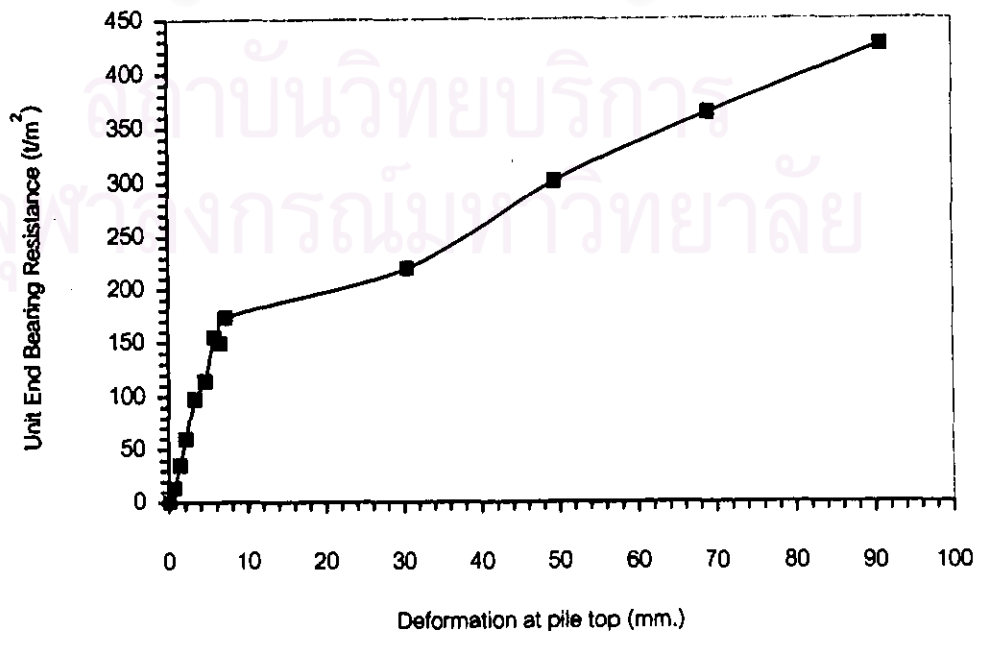
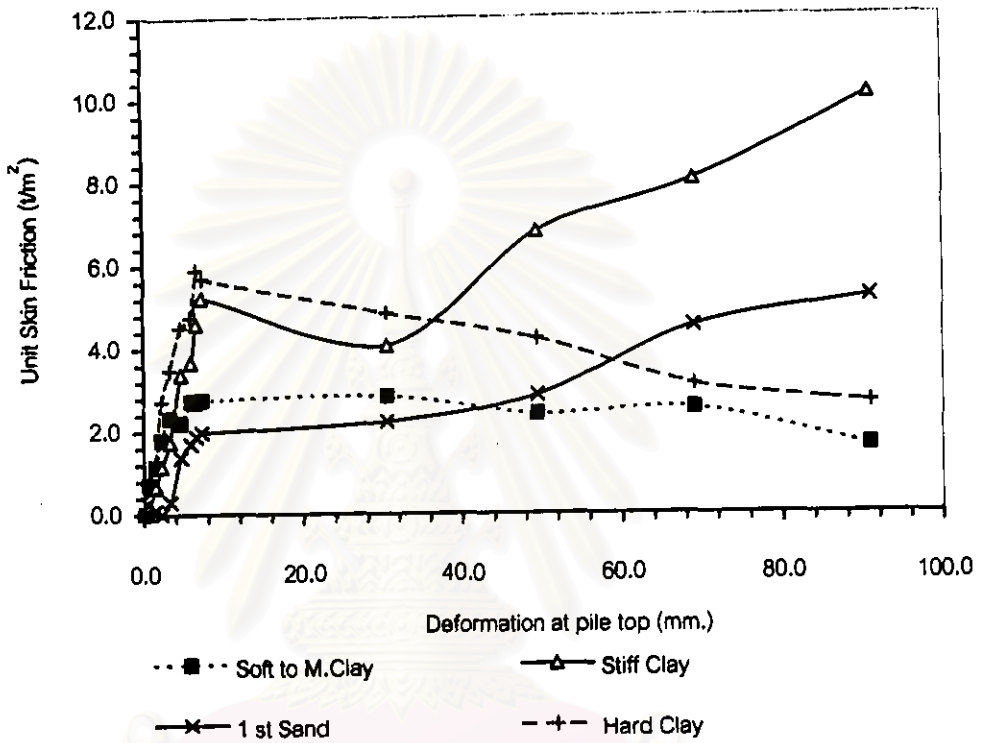
SIZE : Dia 1.20 x 43.50 m.

PROJECT : Bang Pa In - Pak Kret Expressway

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) : 840 tons

Deformation at Q_{ult} : 24 mm.

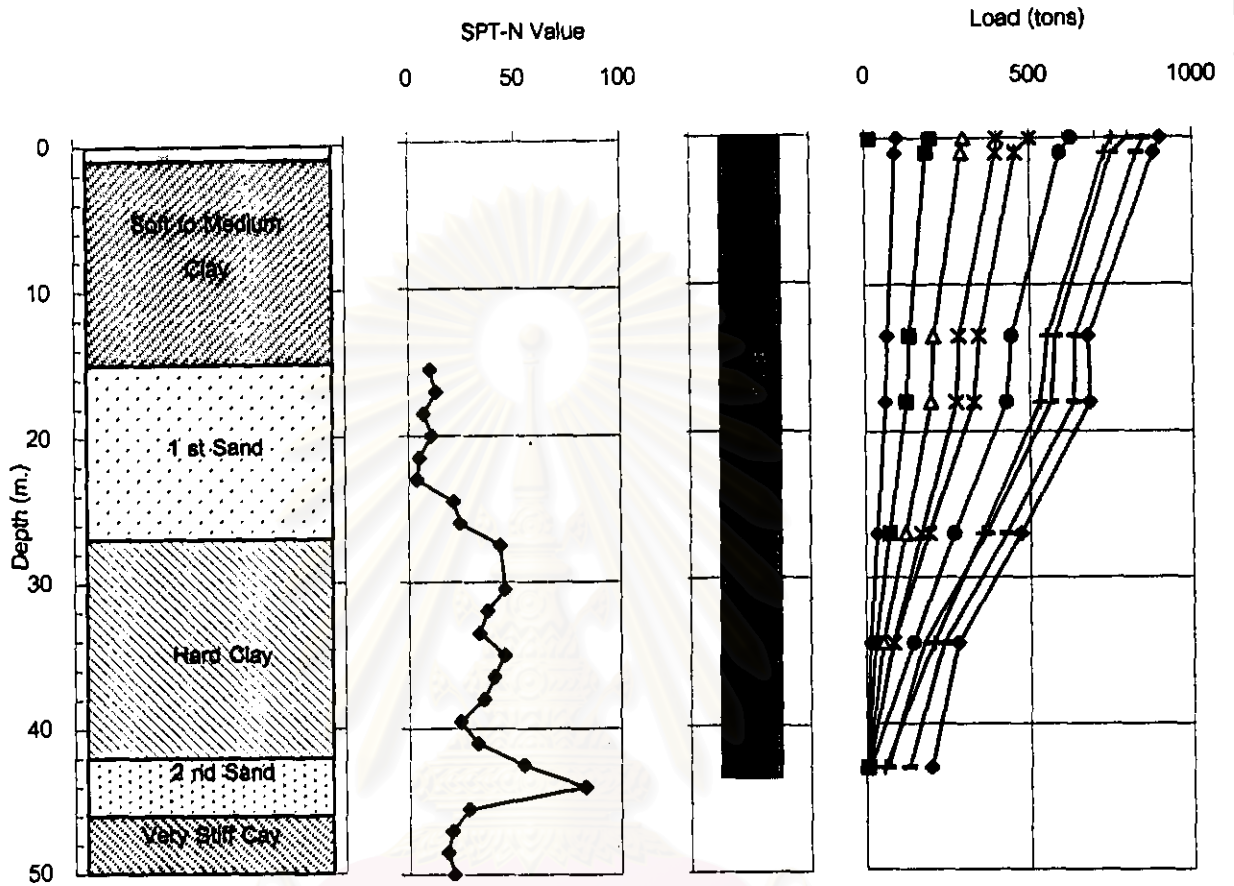


TEST PILE : TP - 9

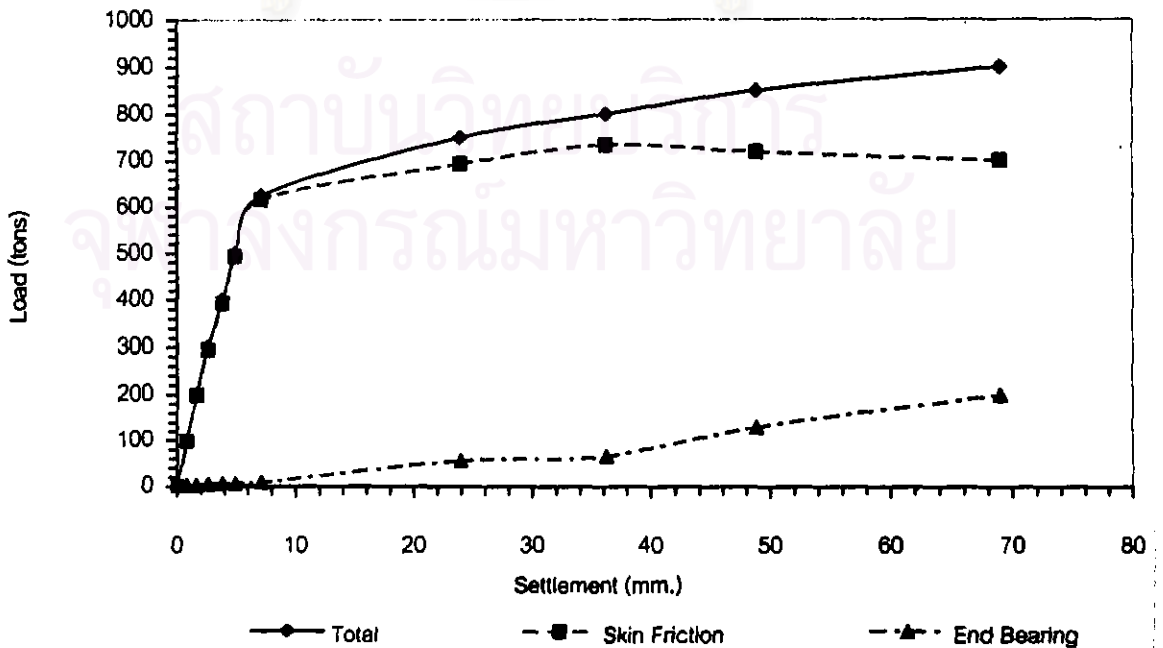
SIZE : Dia 1.00 x 43.50 m.

PROJECT : Bang Pa In - Pak Kret Expressway

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 9

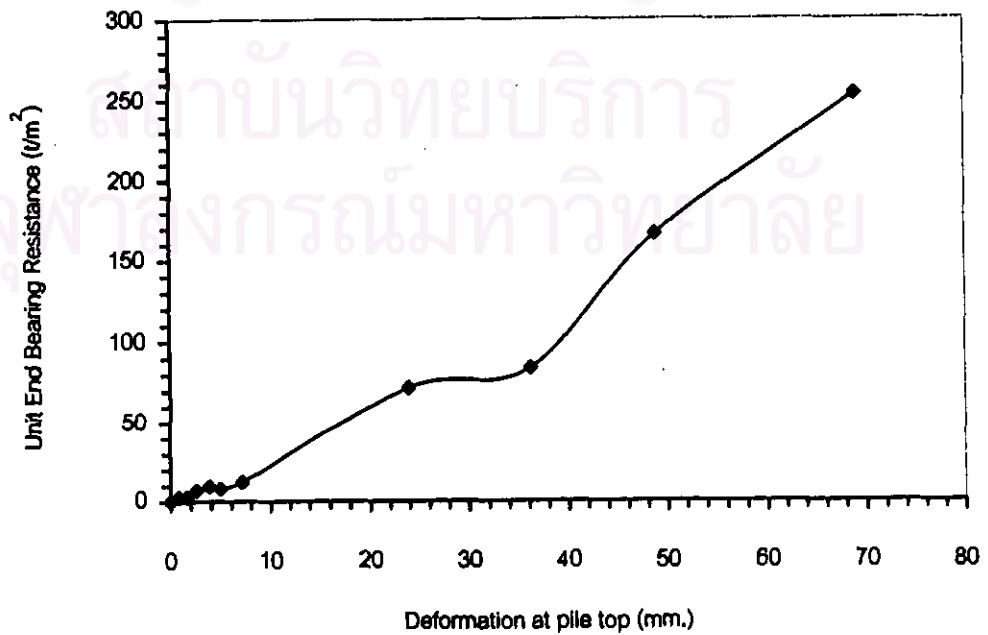
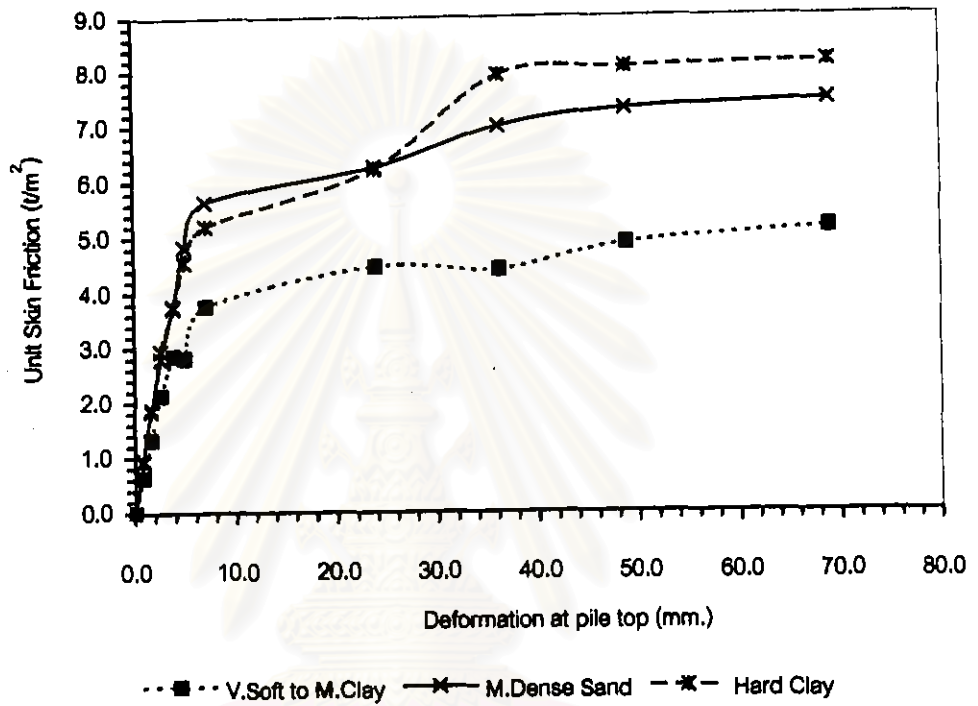
SIZE : Dia 1.00 x 43.50 m.

PROJECT : Bang Pa In - Pak Kret Expressway

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 710 tons

Deformation at Q_{ult} 18 mm.

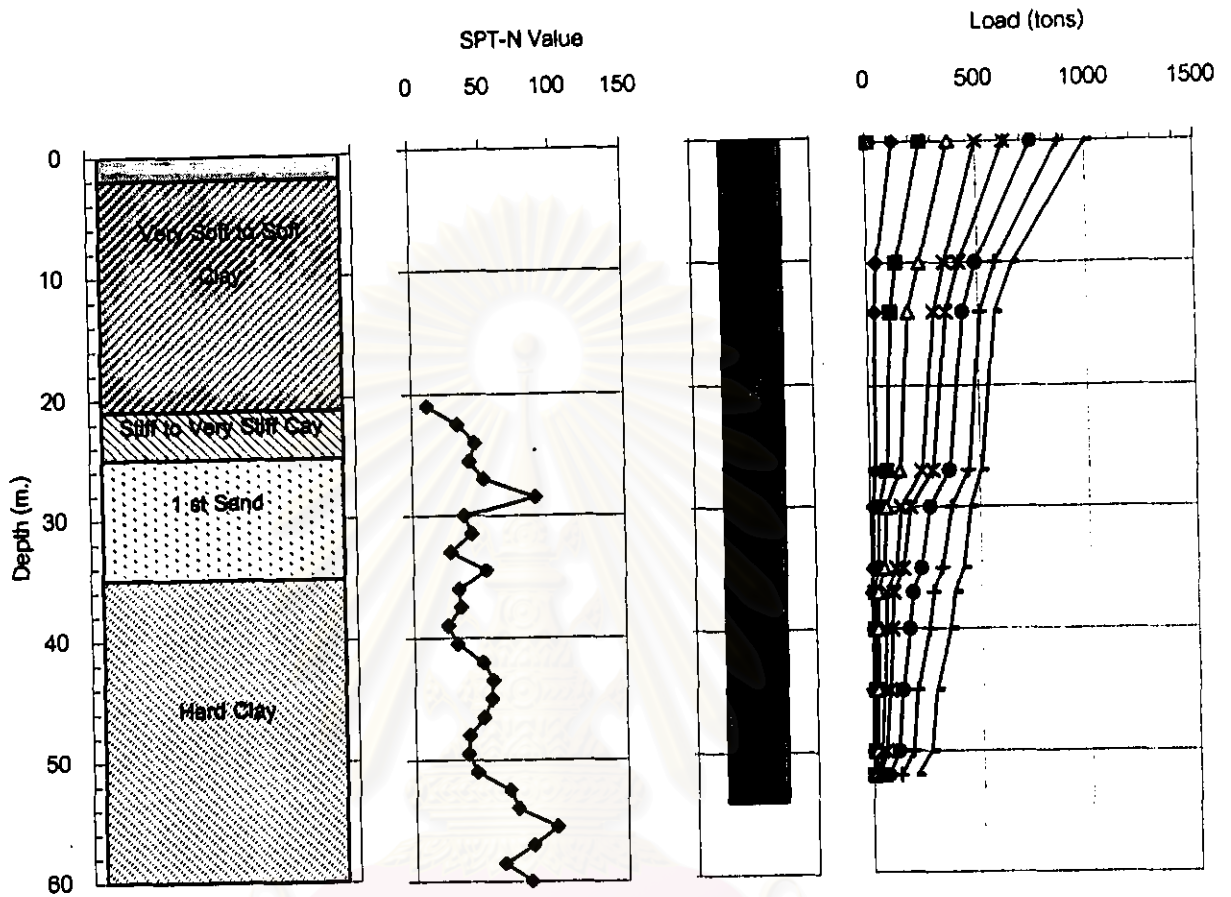


TEST PILE : TP - 10

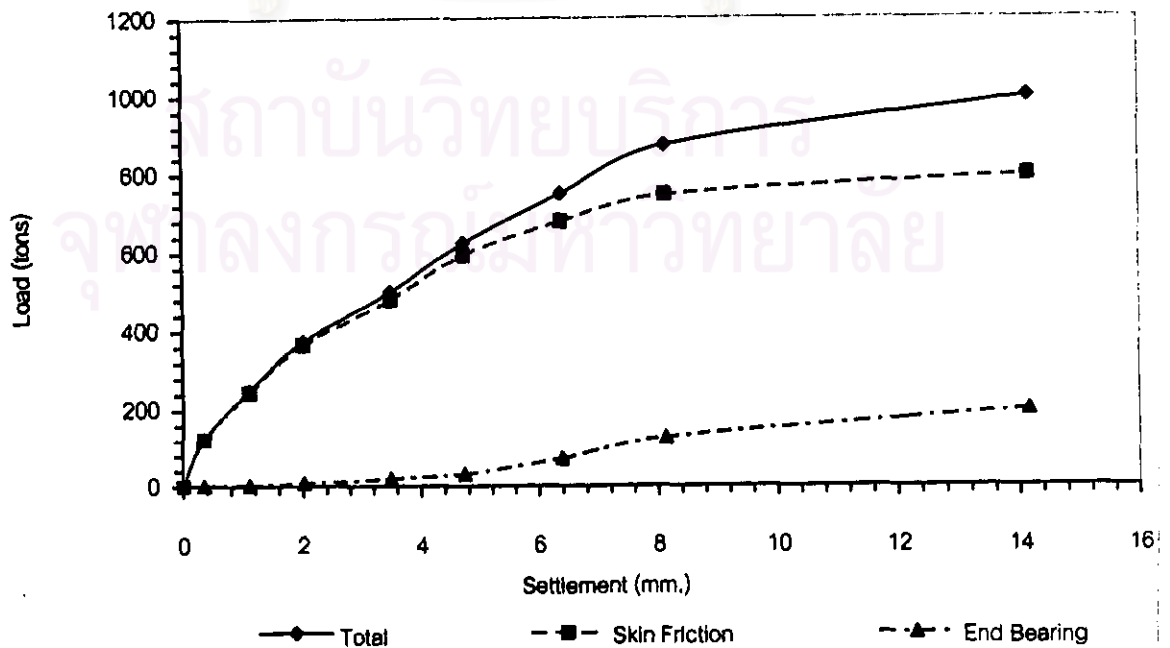
SIZE : Dia 1.20 x 54.00 m.

PROJECT : Abac University

CONDITION : Normal Pile (Tip in Clay)



Load - Settlement Curve



TEST PILE : TP - 10

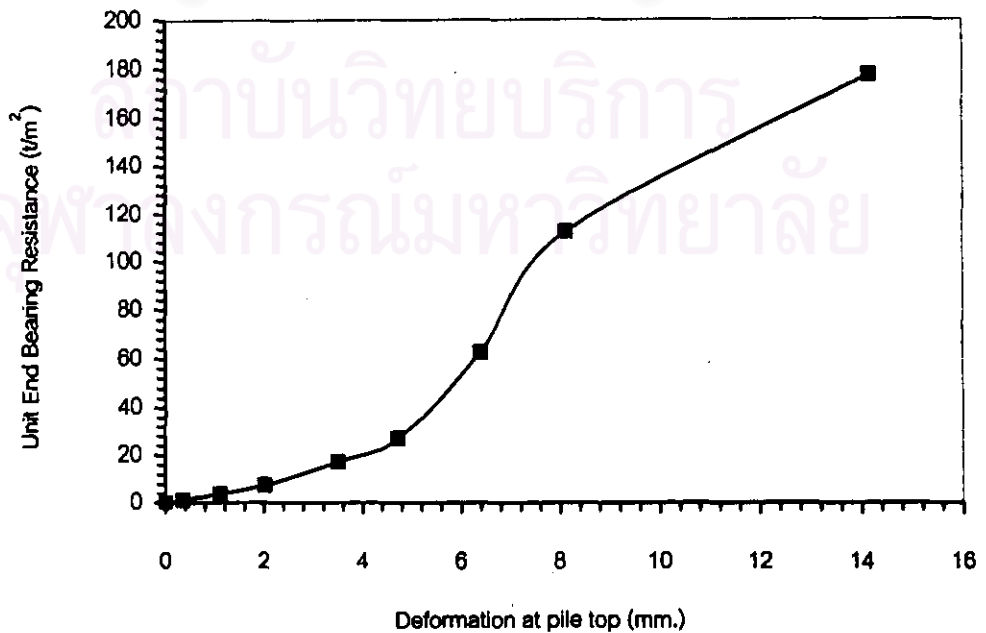
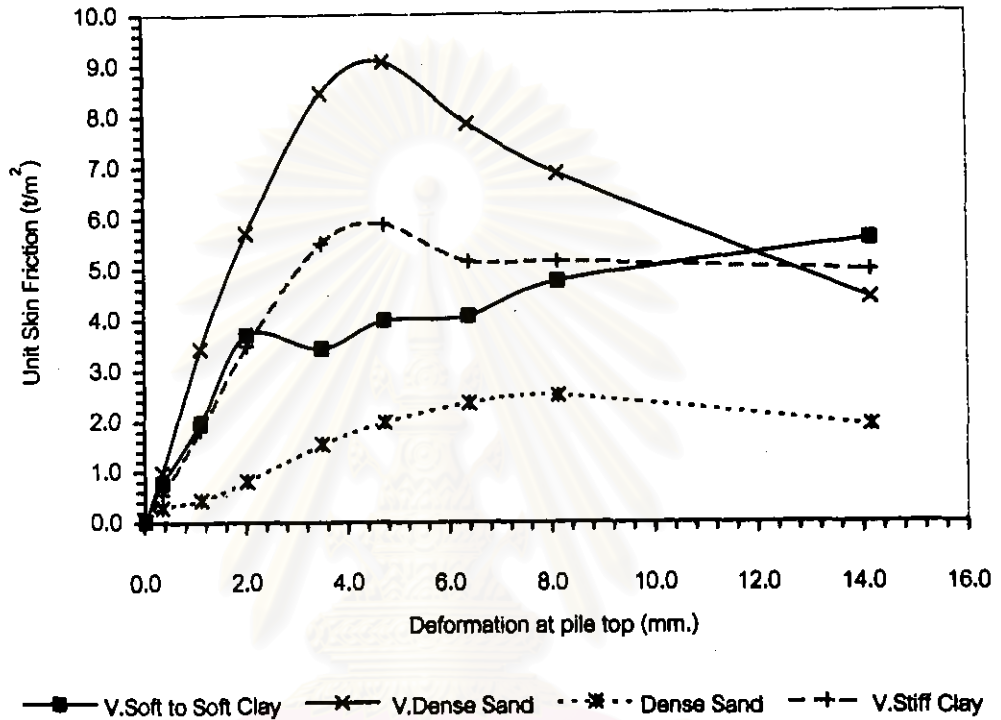
SIZE : Dia 1.20 x 54.00 m.

PROJECT : Abac University

CONDITION : Normal Pile (Tip in Clay)

Q_{ult} (Butler & Hoy (1977)) 840 tons

Deformation at Q_{ult} 7.8 mm.

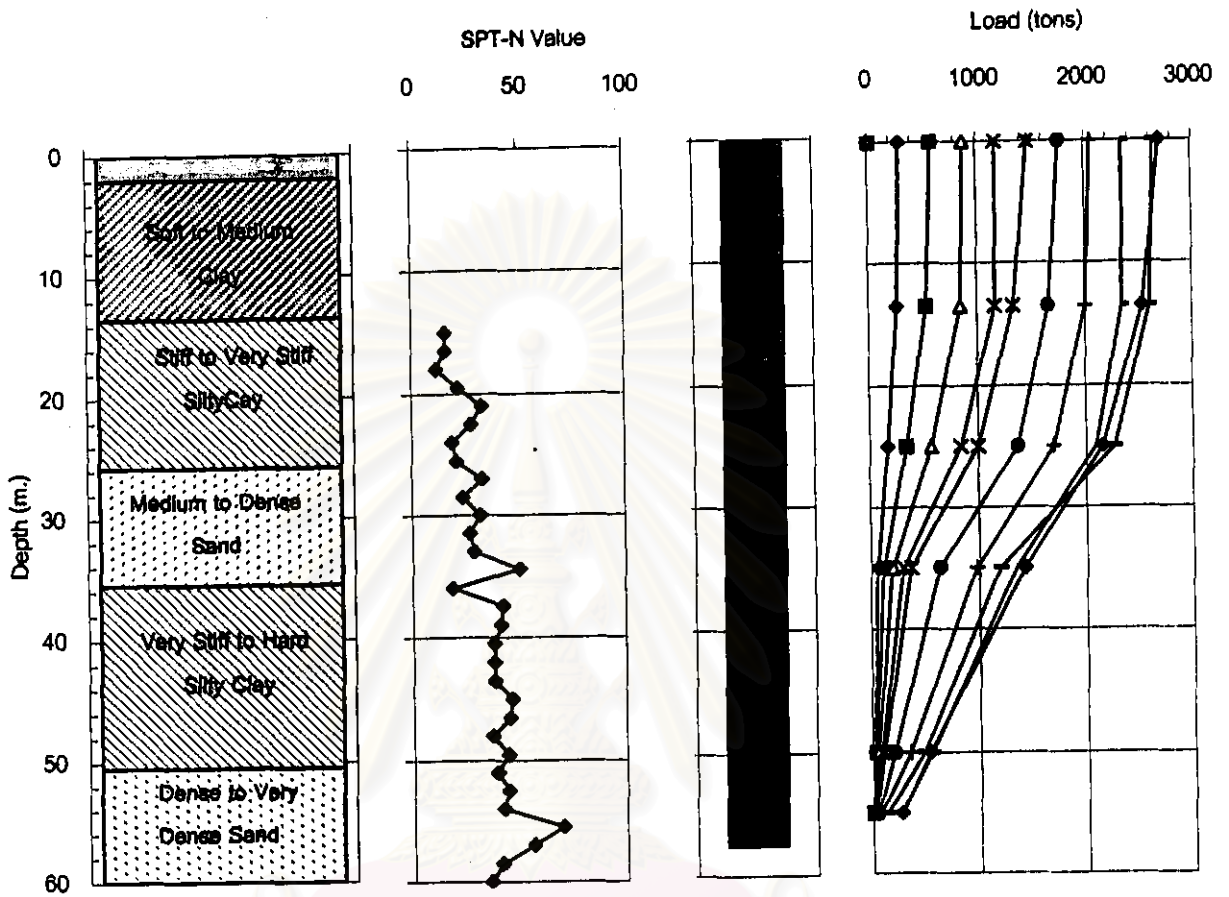


TEST PILE : TP - 11

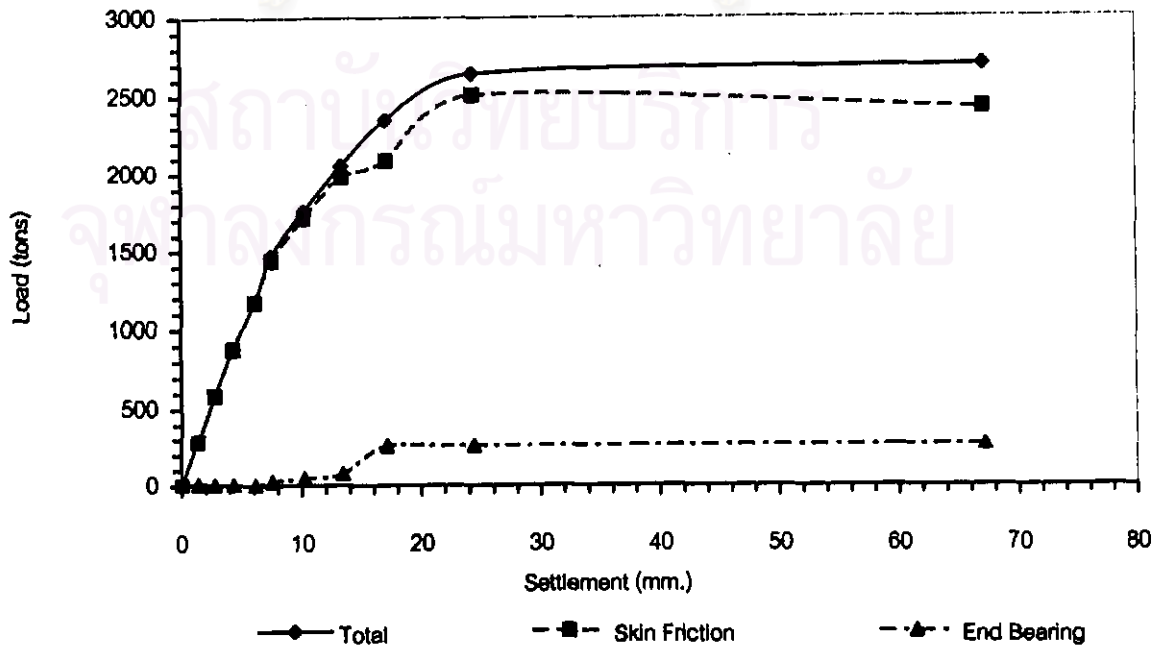
SIZE : Dia 1.50 x 57.50 m.

PROJECT : BECM

CONDITION : Base Grouted Pile



Load - Settlement Curve



TEST PILE : TP - 11

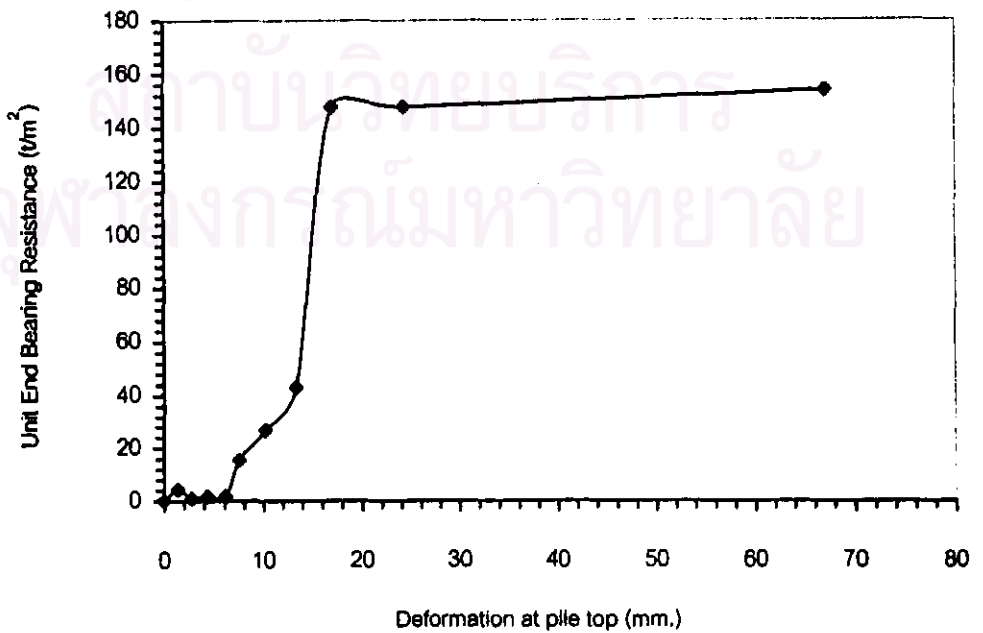
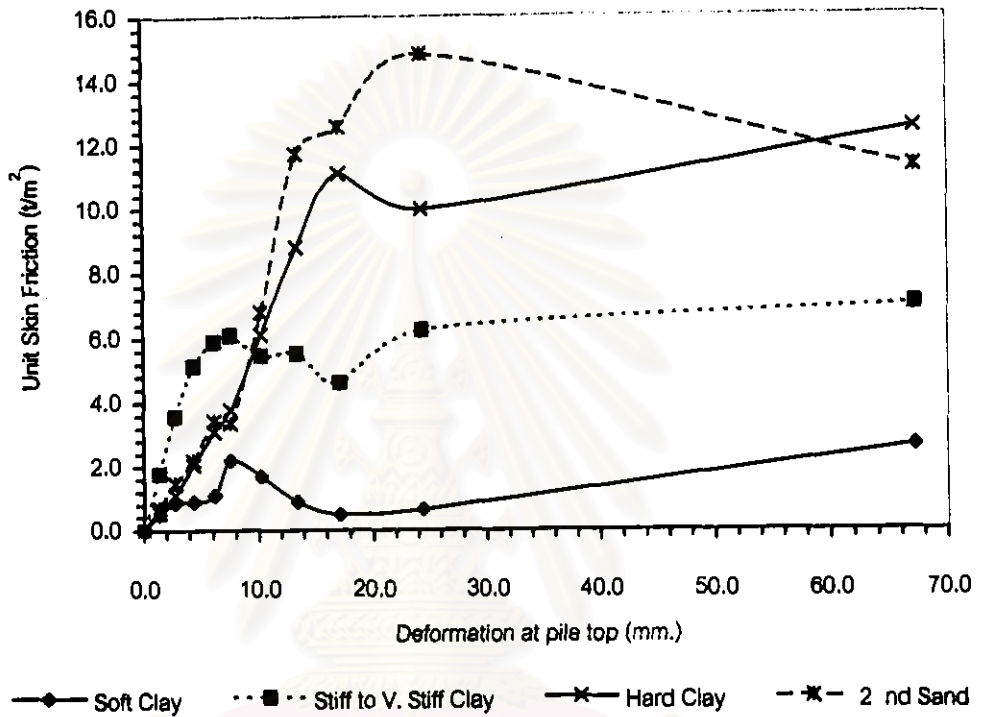
SIZE : Dia 1.50 x 57.50 m.

PROJECT : BECM

CONDITION : Base Grouted Pile

Q_{ult} (Butler & Hoy (1977)) 2620 tons

Deformation at Q_{ult} 24 mm.

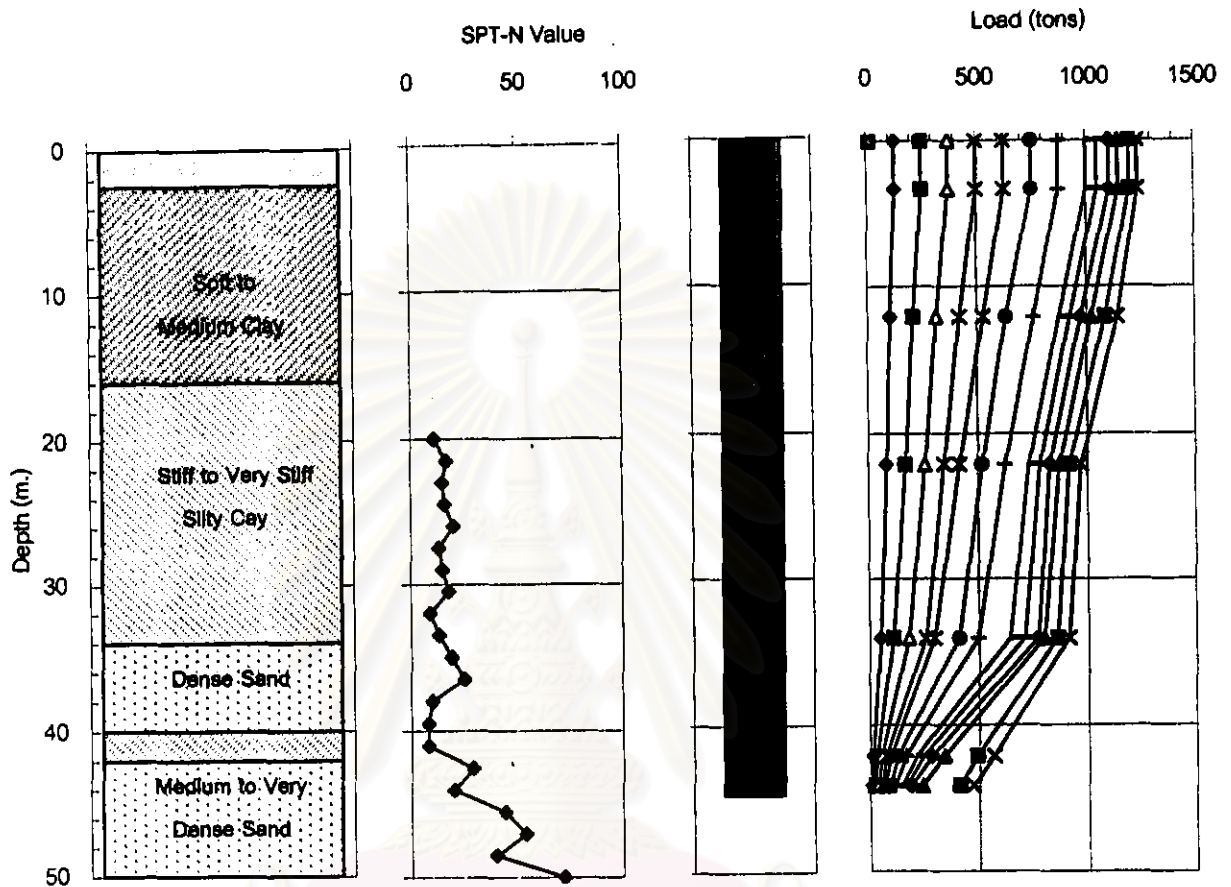


TEST PILE : TP - 12

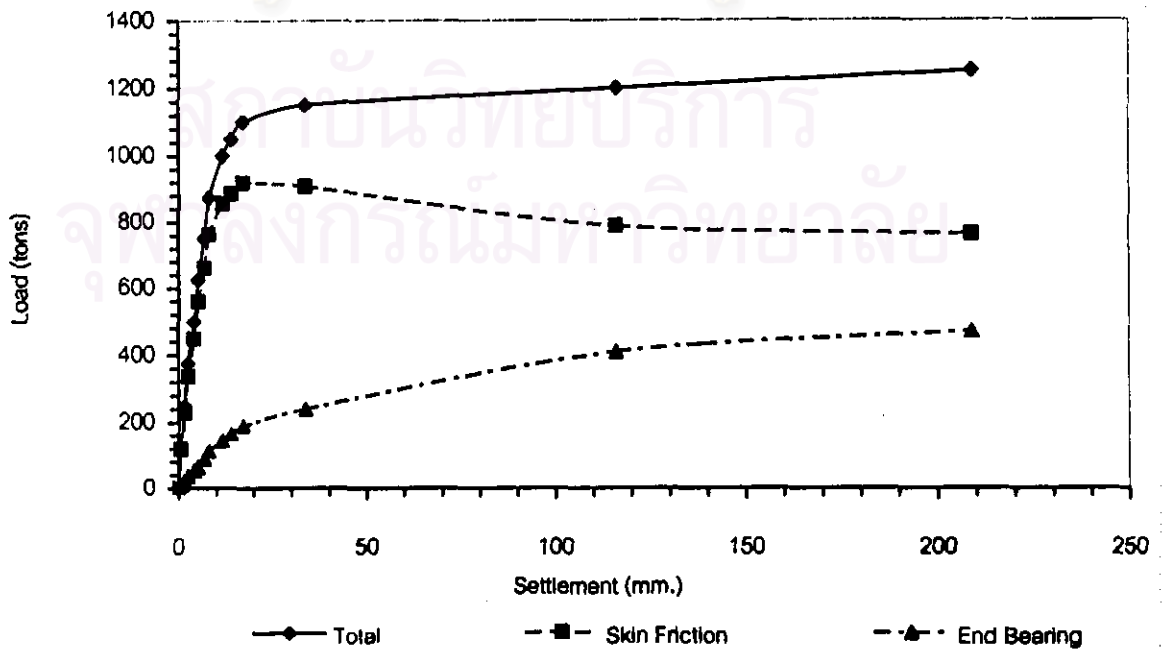
SIZE : Dia 1.20 x 44.64 m.

PROJECT : BBBE

CONDITION : Base Grouted Pile



Load - Settlement Curve



TEST PILE : TP - 12

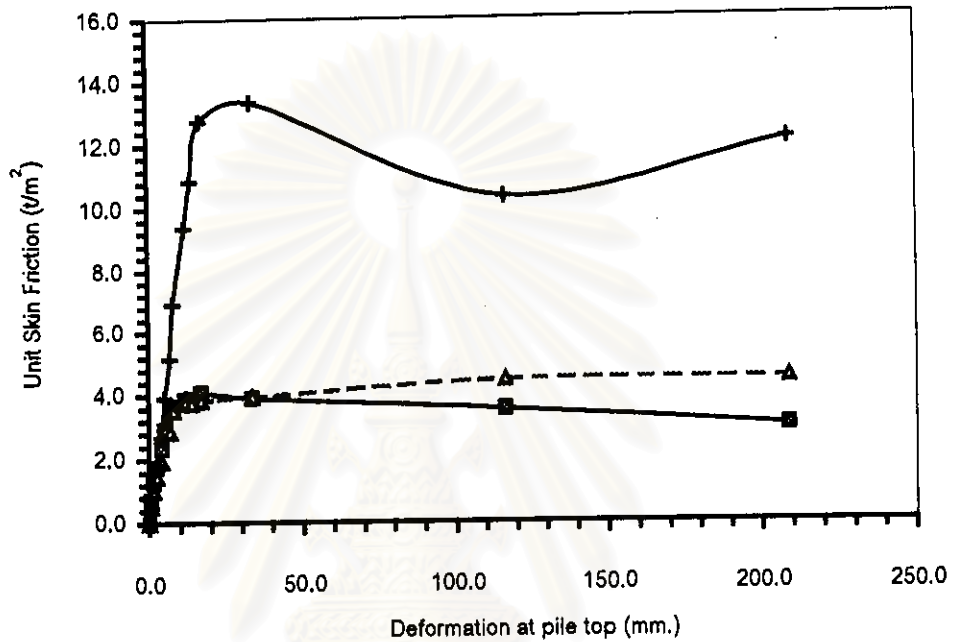
SIZE : Dia 1.20 x 44.64 m.

PROJECT : BBBE

CONDITION : Base Grouted Pile

Q_{ult} (Butler & Hoy (1977)) 1130 tons

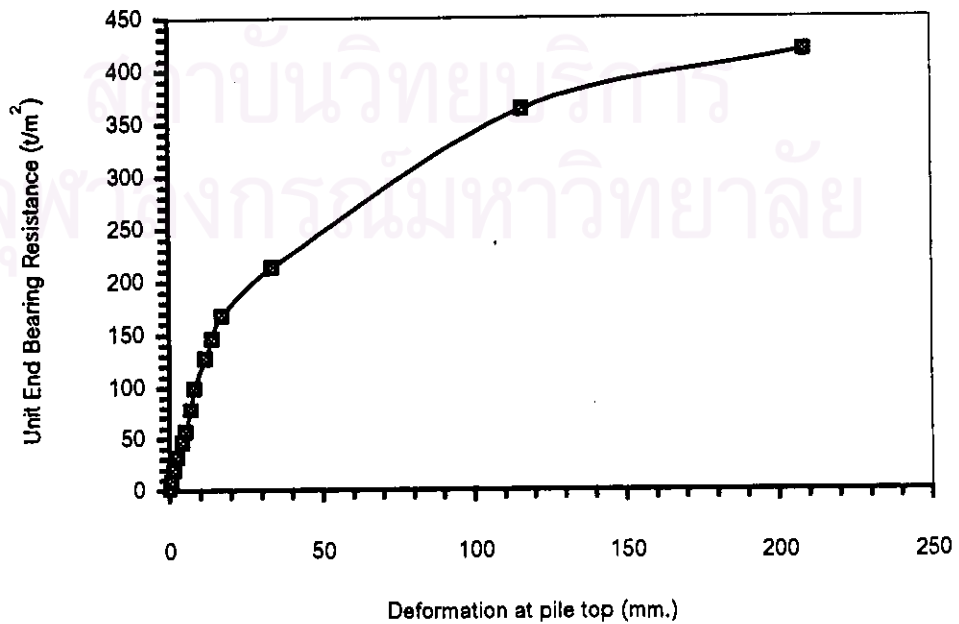
Deformation at Q_{ult} 27 mm.



V, Soft to soft Clay

 Stiff Clay

 2 nd Sand

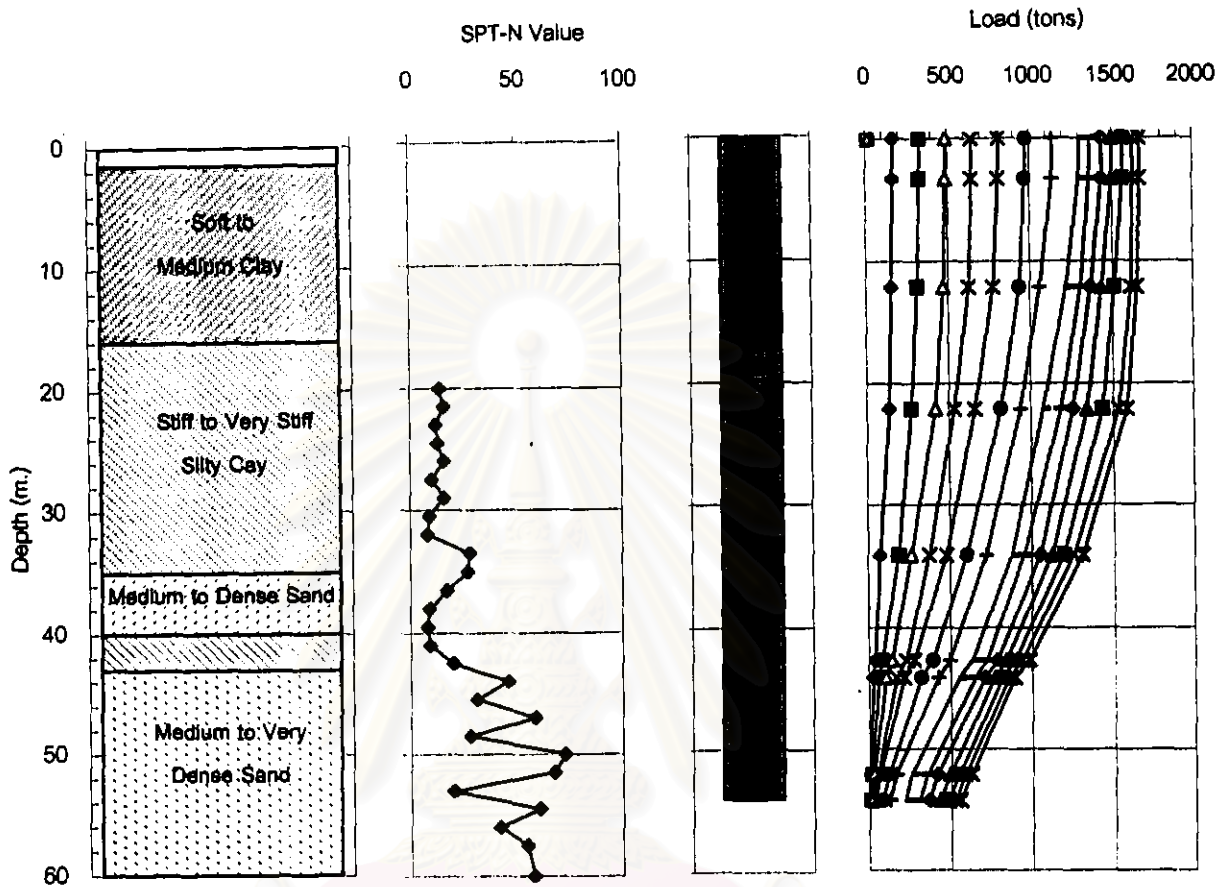


TEST PILE : TP - 13

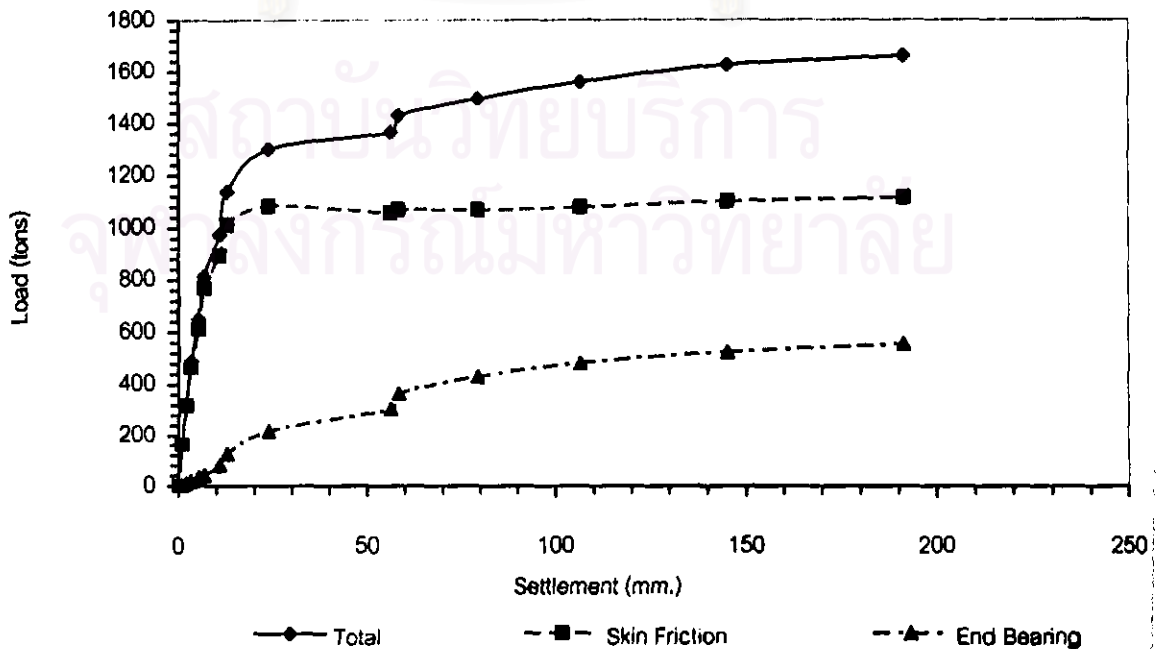
SIZE : Dia 1.20 x 53.79 m.

PROJECT : BBBE

CONDITION : Base Grouted Pile



Load - Settlement Curve



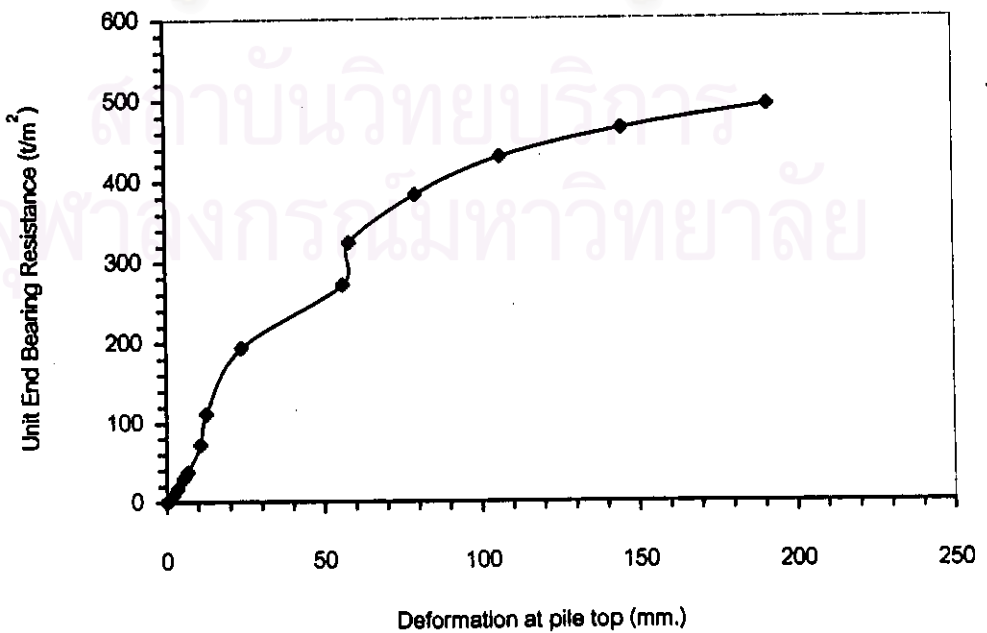
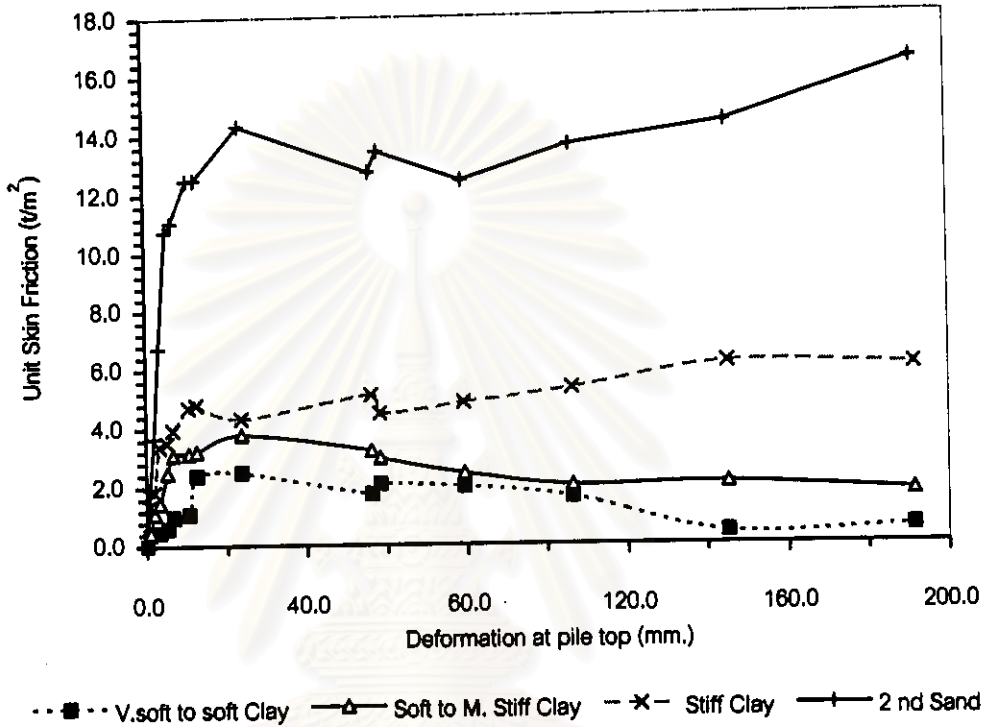
TEST PILE : TP - 13

SIZE : Dia 1.20 x 53.79 m.

PROJECT : BBBE

CONDITION : Base Grouted Pile

Q_{ult} (Butler & Hoy (1977)) 1440 tons
 Deformation at Q_{ult} 66 mm.

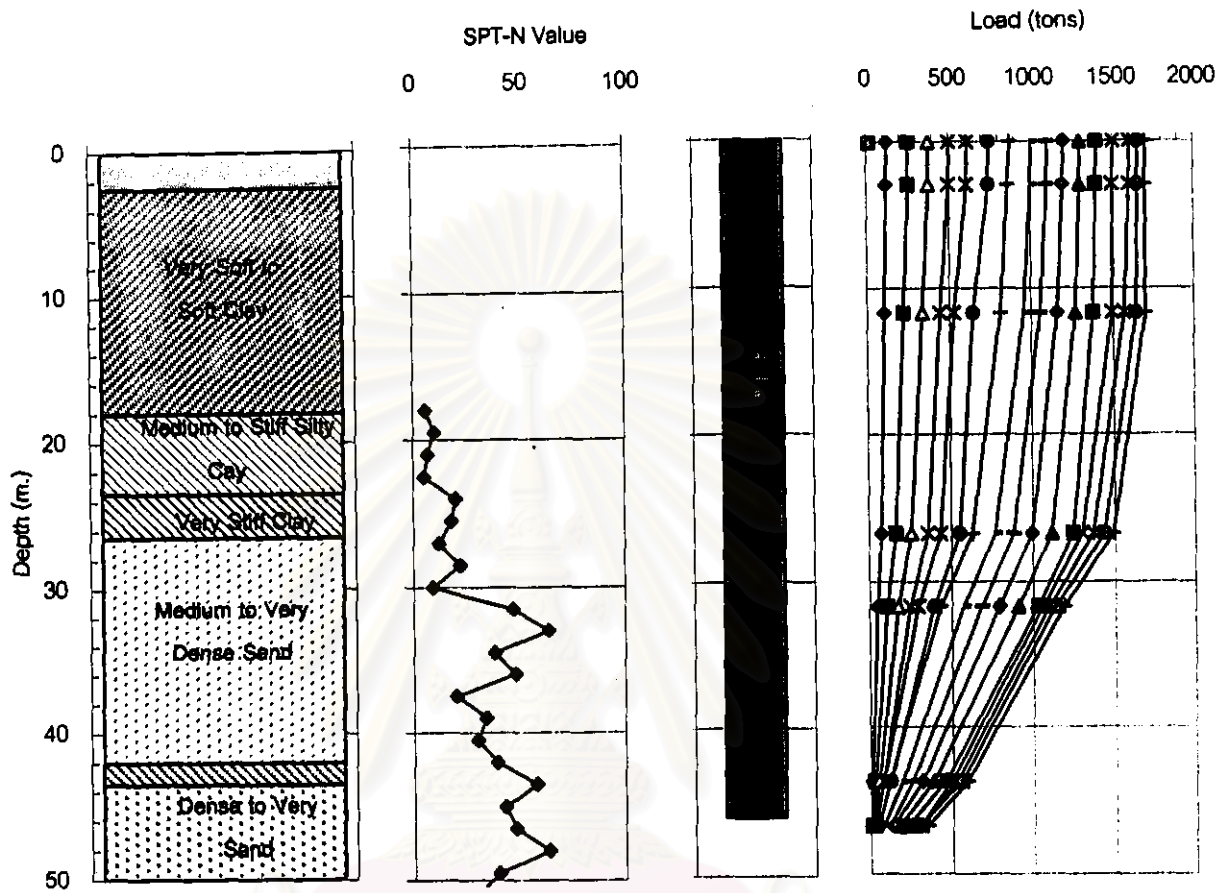


TEST PILE : TP - 14

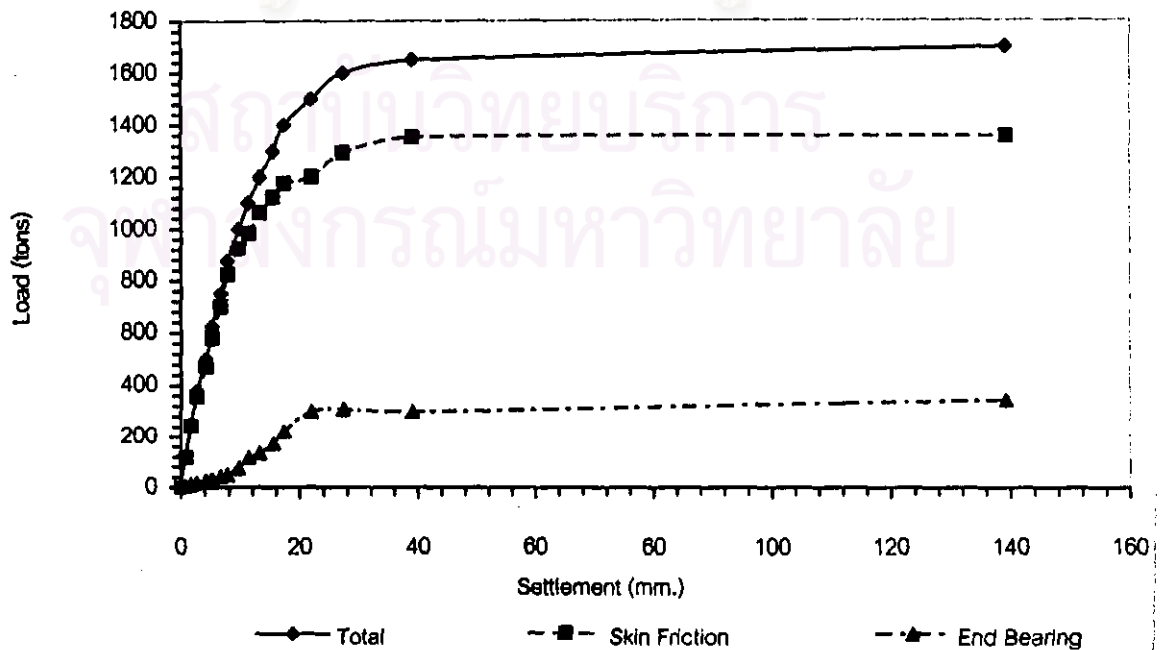
SIZE : Dia 1.20 x 46.00 m.

PROJECT : BBBE

CONDITION : Base Grouted Pile



Load - Settlement Curve



TEST PILE : TP - 14

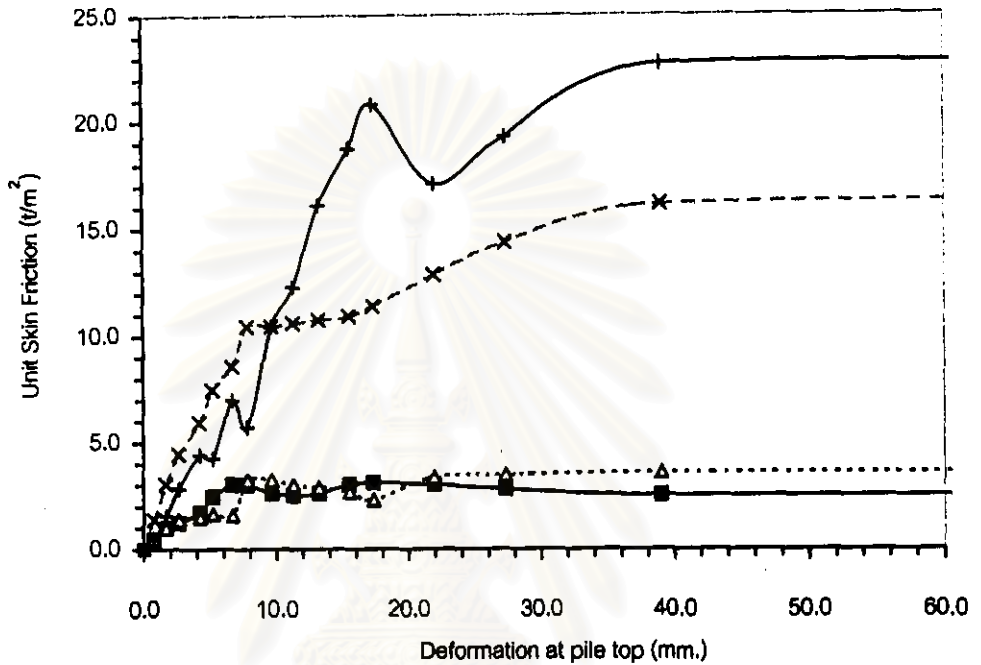
SIZE : Dia 1.20 x 46.00 m.

PROJECT : BBBE

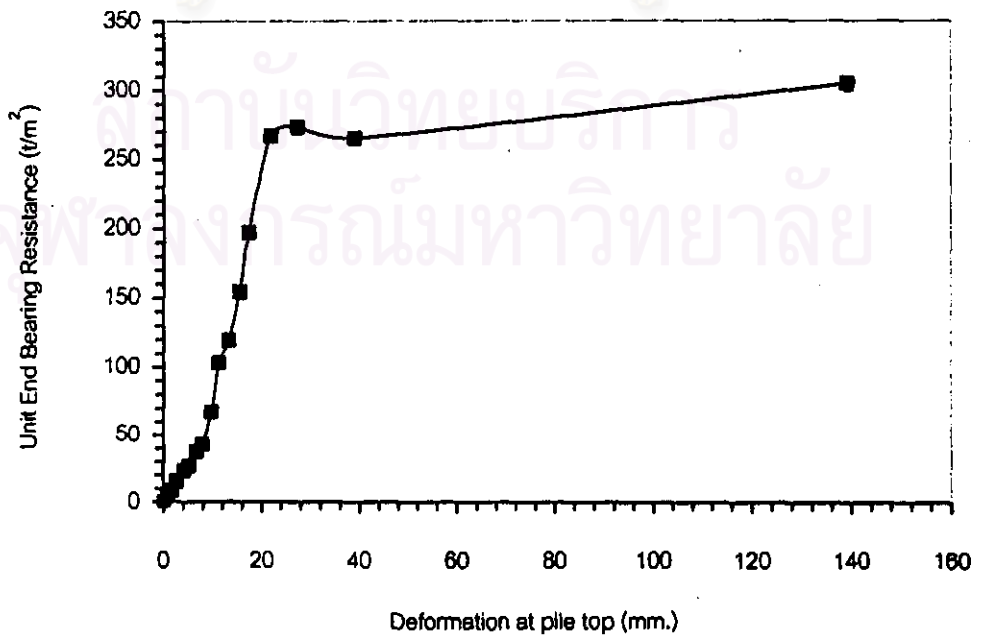
CONDITION : Base Grouted Pile

Q_{ult} (Butler & Hoy (1977)) 1640 tons

Deformation at Q_{ult} 29 mm.



v. Soft to Soft Clay
 Stiff to V. Stiff Clay
 1st Sand
 2nd Sand

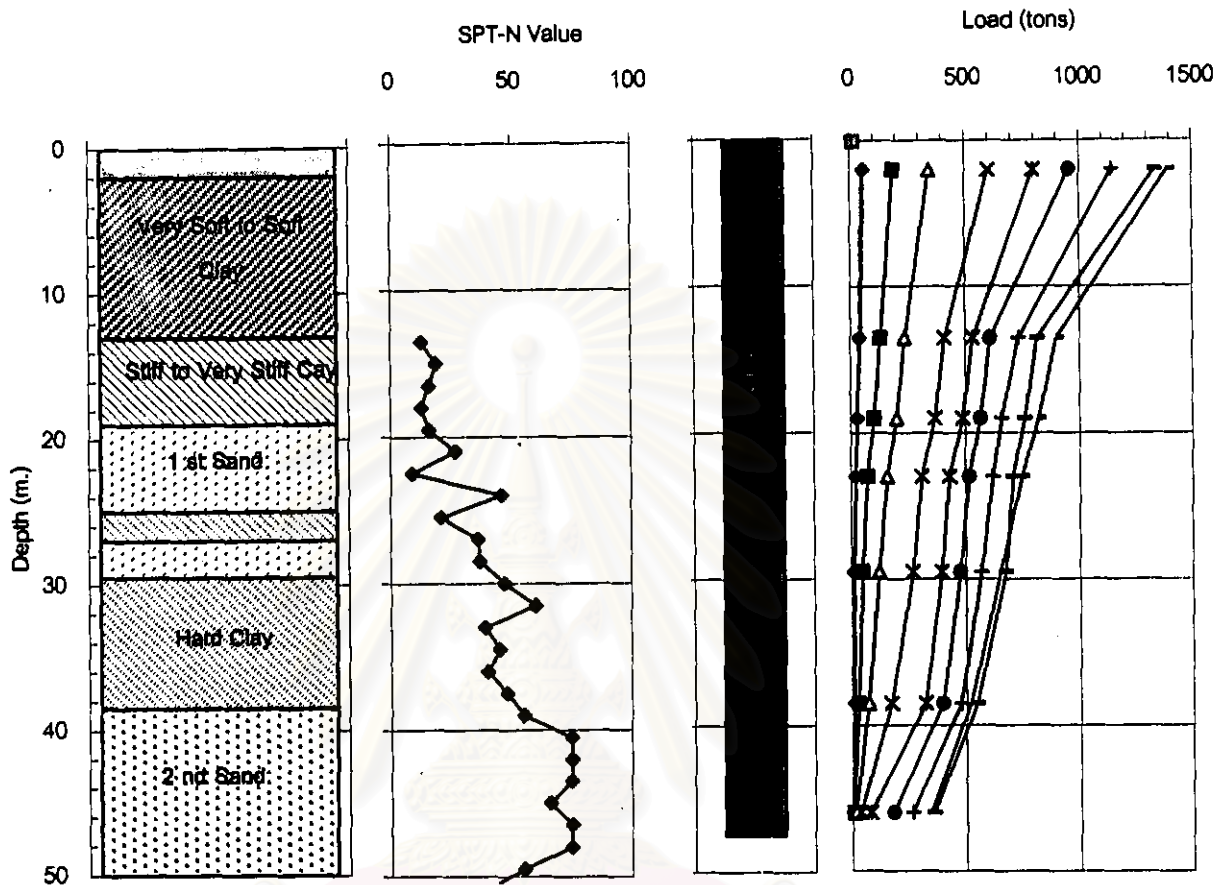


TEST PILE : TP - 15

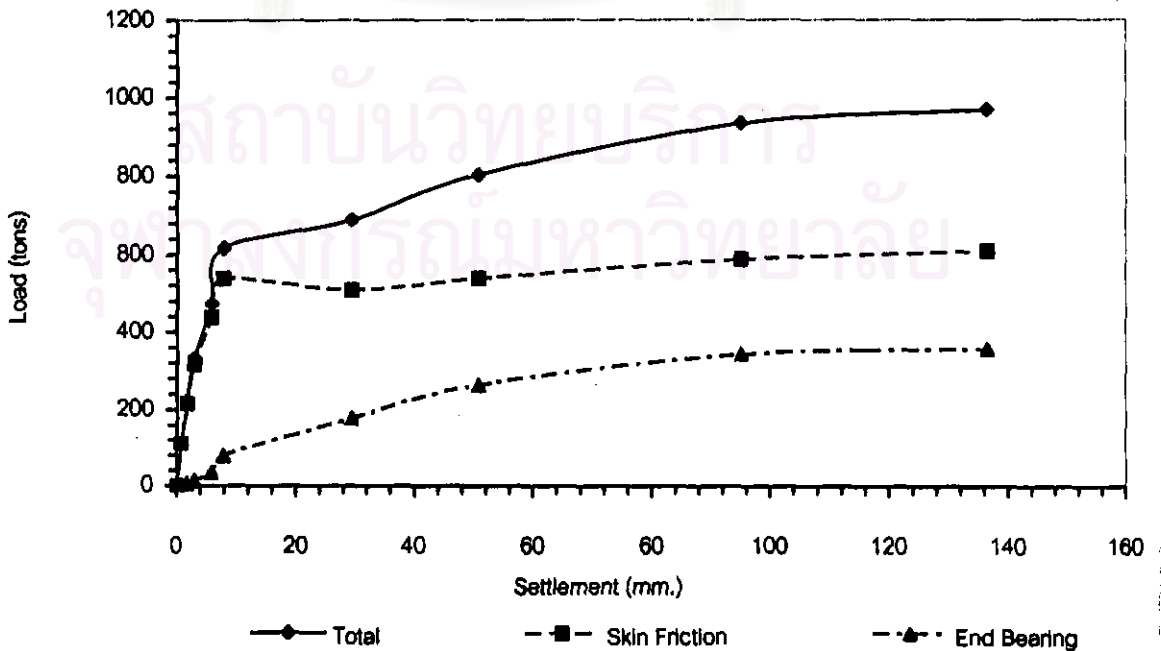
SIZE : Dia 1.00 x 47.50 m.

PROJECT : Bangkok Transis System

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 15

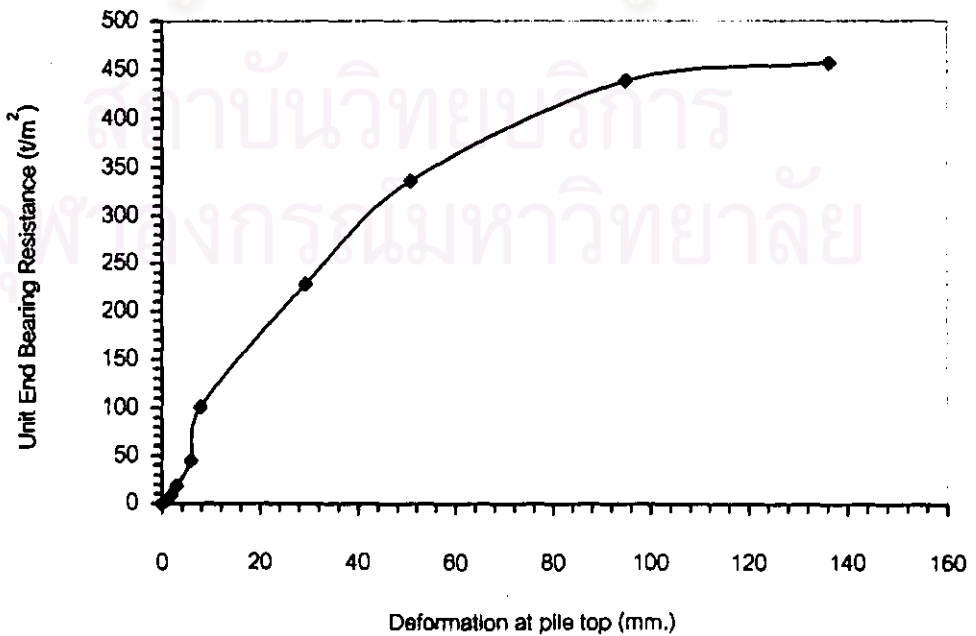
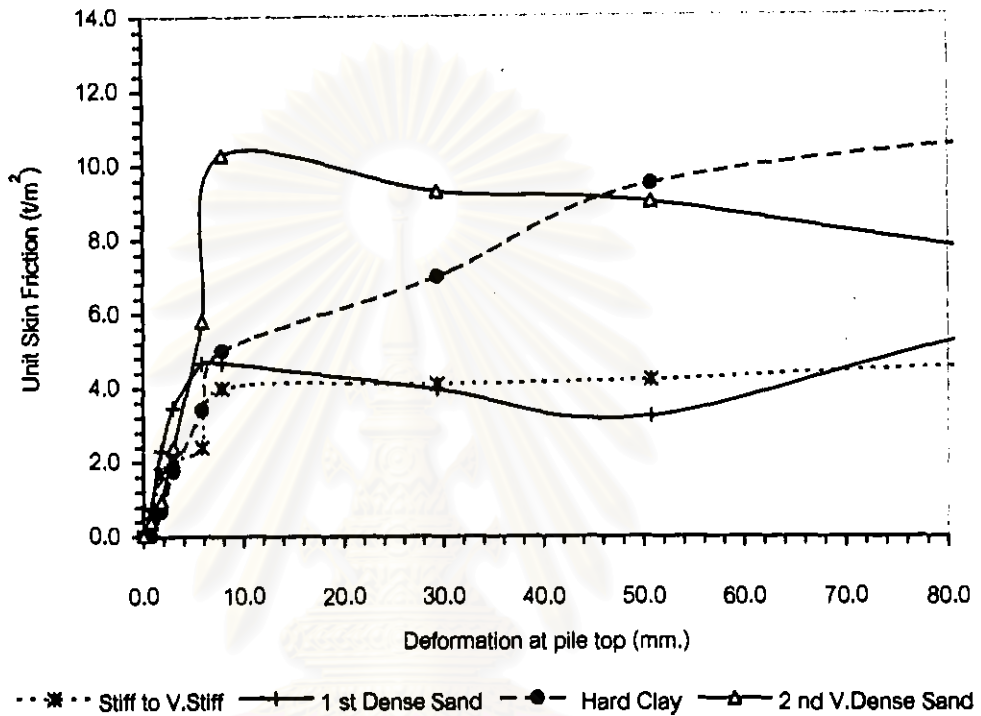
SIZE : Dia 1.00 x 47.50 m.

PROJECT : Bangkok Transis System

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 740 tons

Deformation at Q_{ult} 37.5 mm.

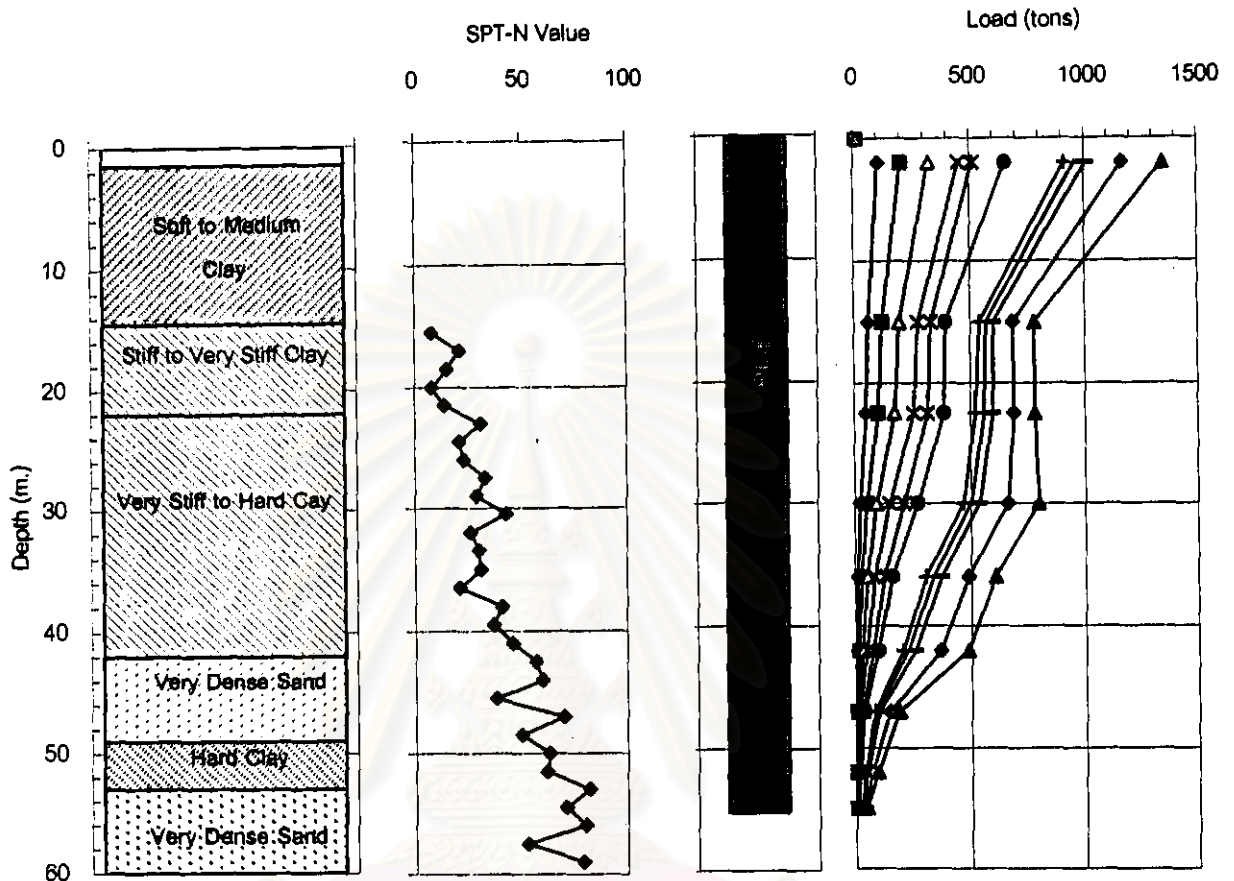


TEST PILE : TP - 16

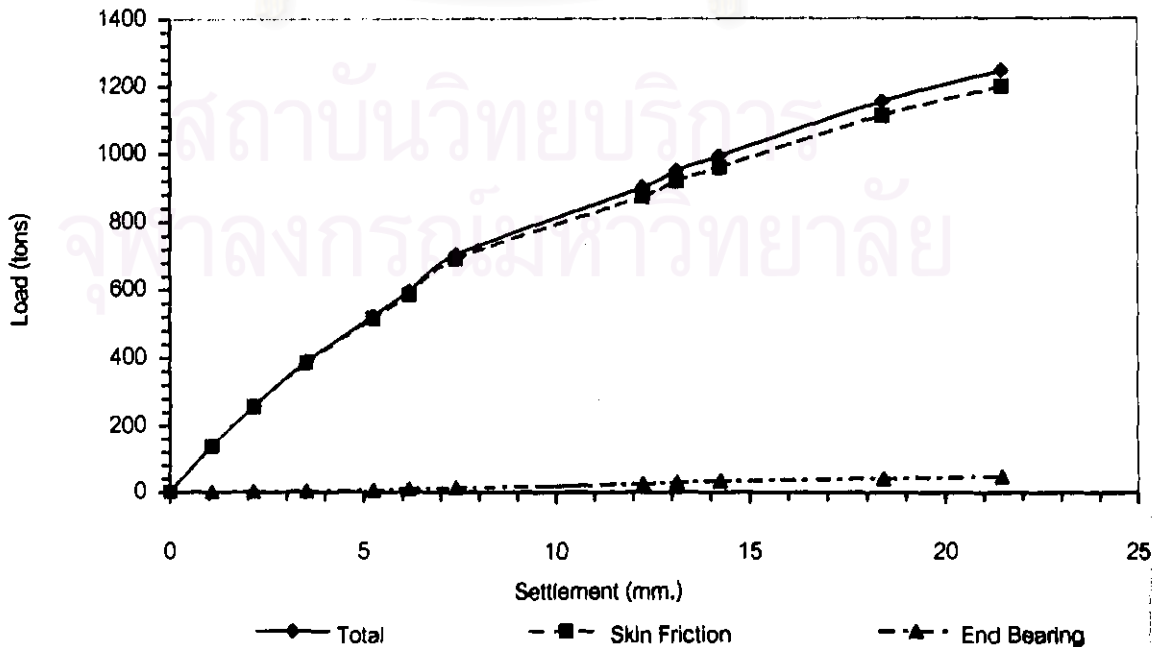
SIZE : Dia 1.00 x 55.20 m.

PROJECT : Asoke Building

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 16

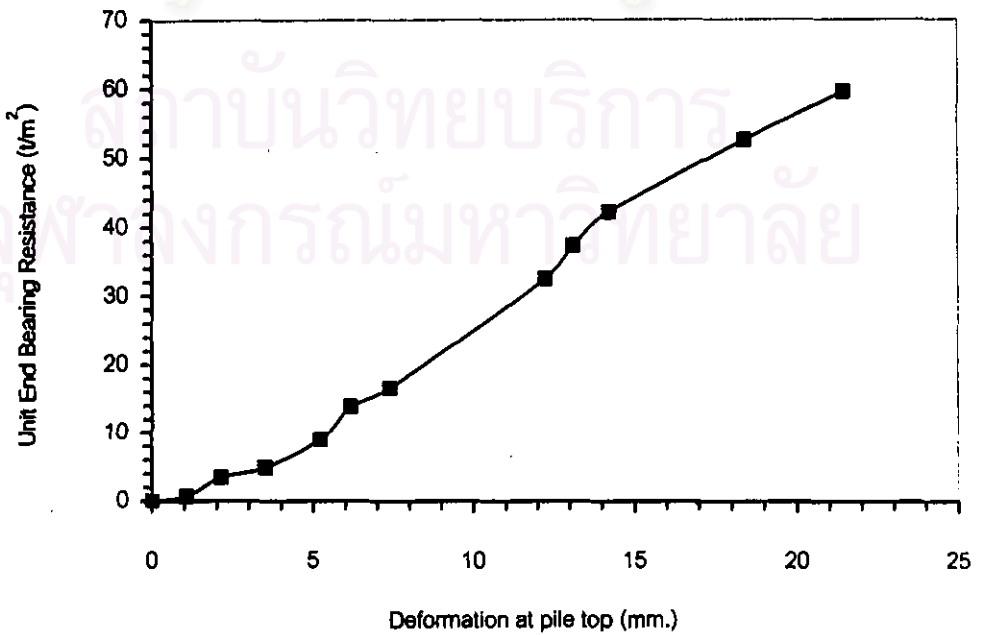
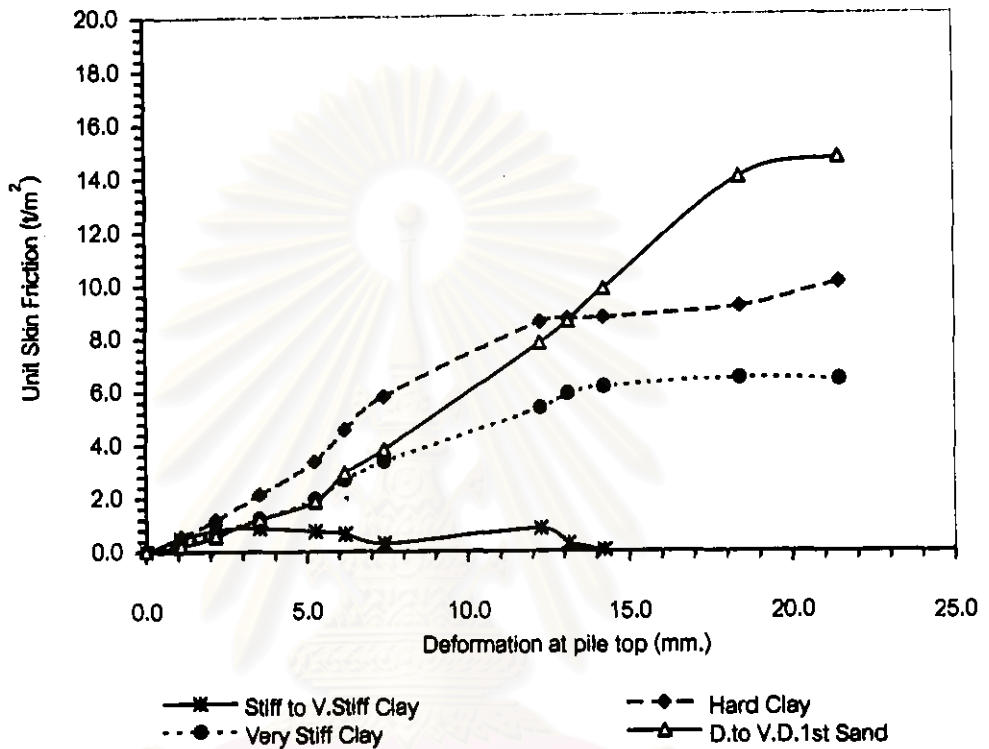
SIZE : Dia 1.00 x 55.20 m.

PROJECT : Asoke Building

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 1378 tons

Deformation at Q_{ult} - mm.

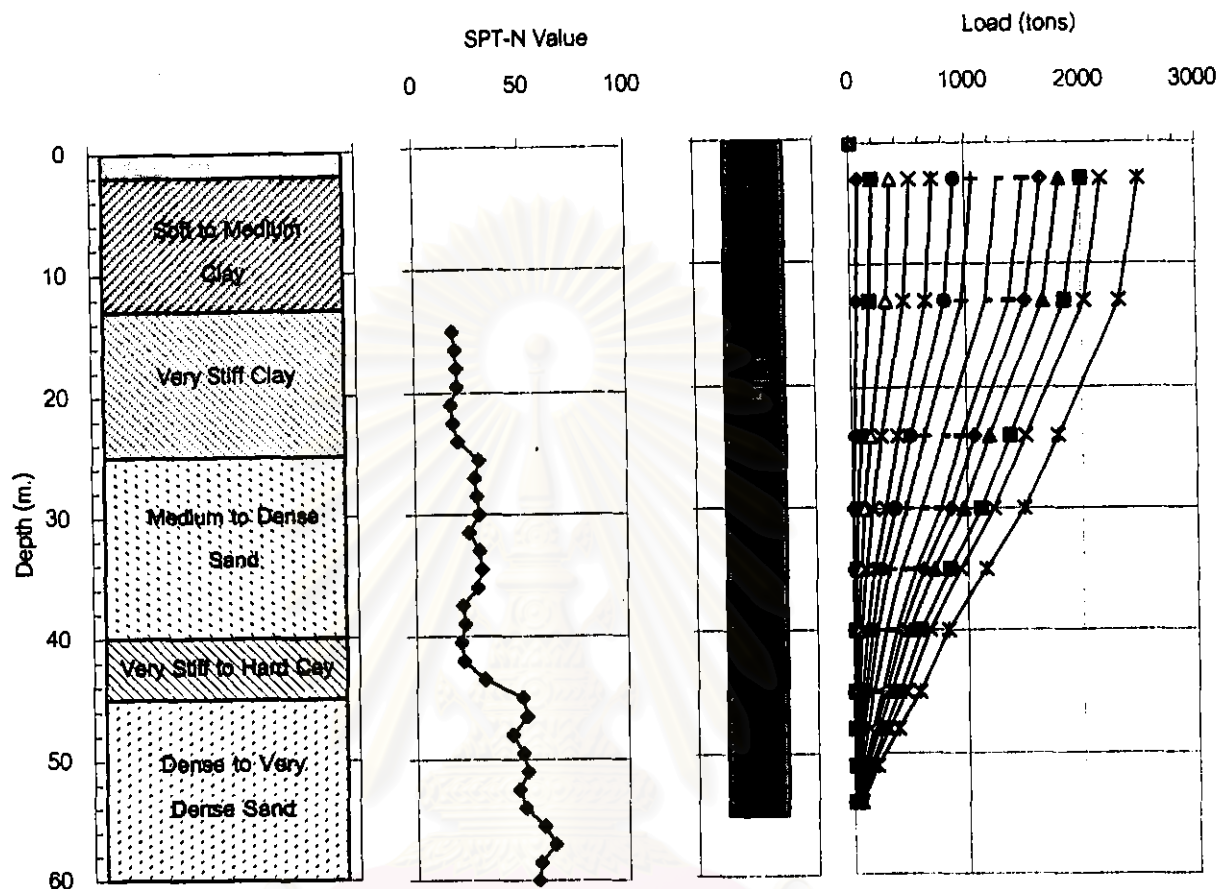


TEST PILE : TP - 17

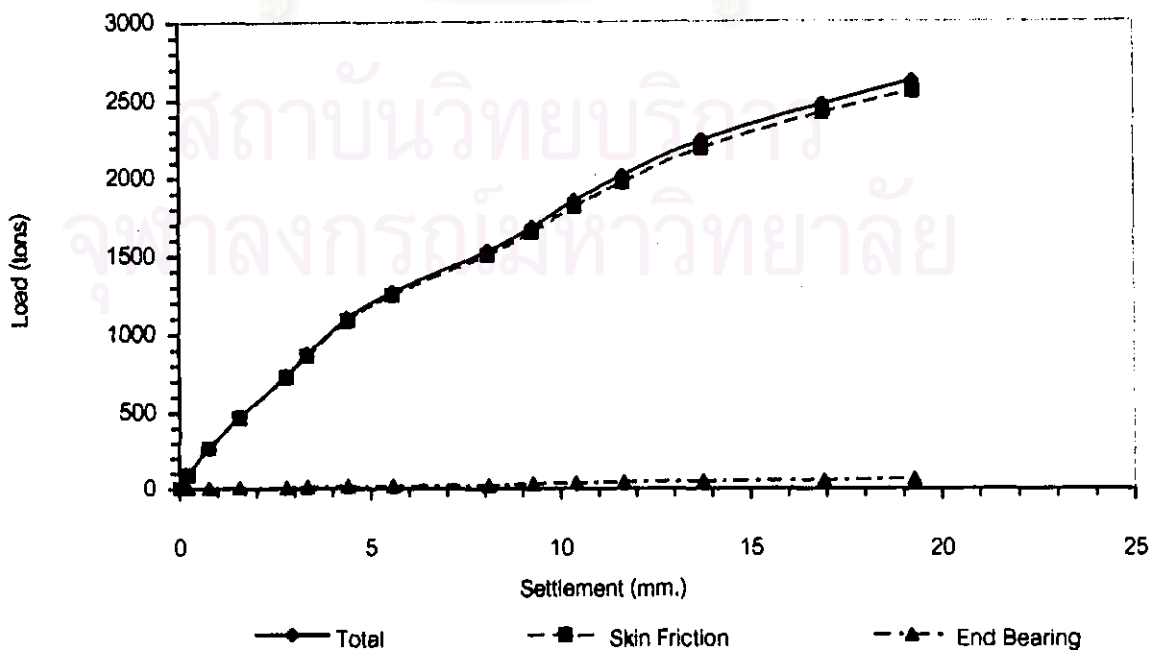
SIZE : Dia 1.50 x 55.00 m.

PROJECT : Worajack Complex

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 17

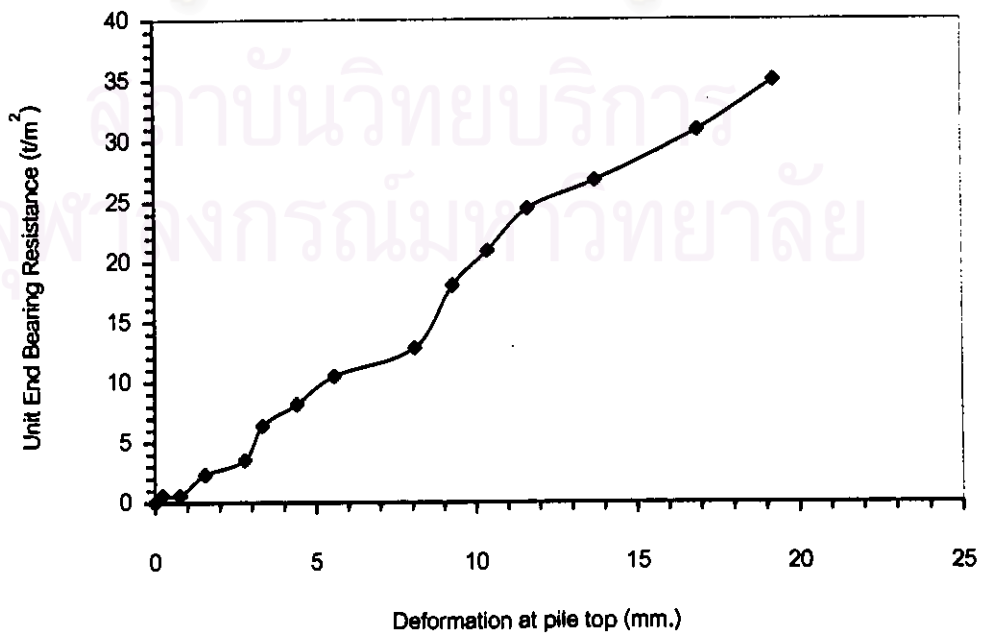
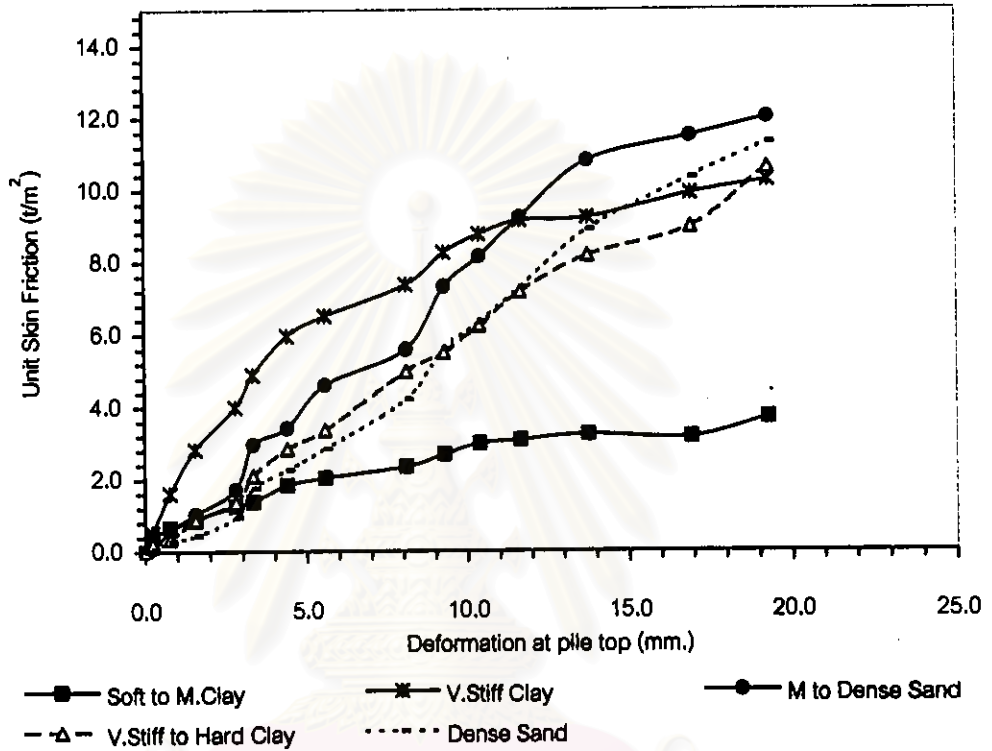
SIZE : Dia 1.50 x 55.00 m.

PROJECT : Worajack Complex

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 2667 tons

Deformation at Q_{ult} 18.9 mm.

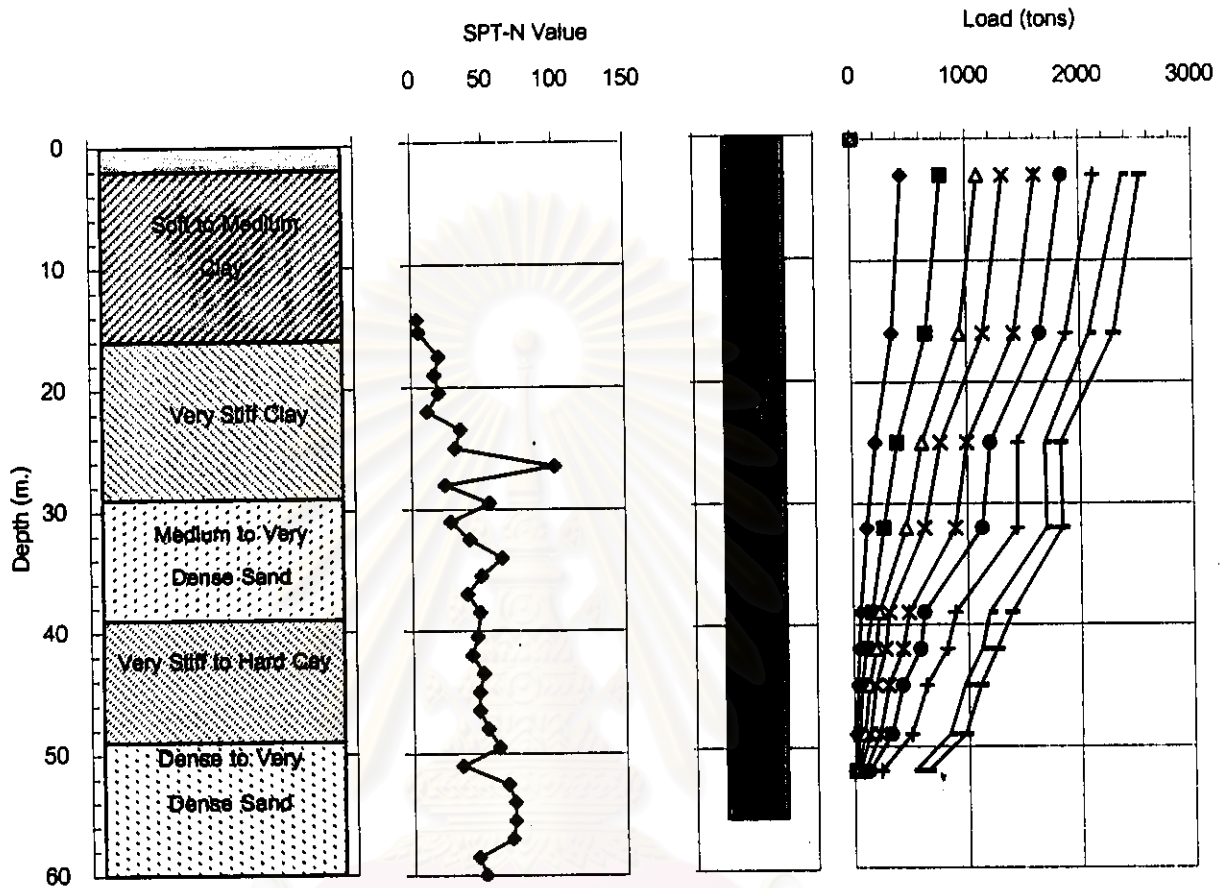


TEST PILE : TP - 18

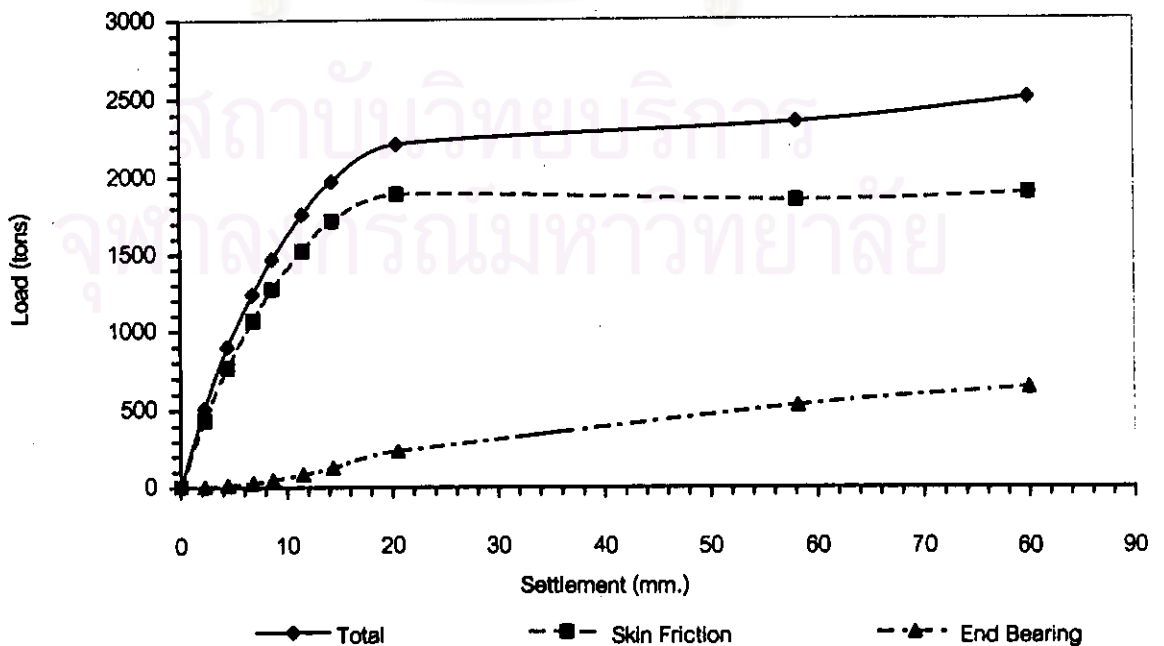
SIZE : Dia 1.50 x 55.70 m.

PROJECT : Hopewell

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 18

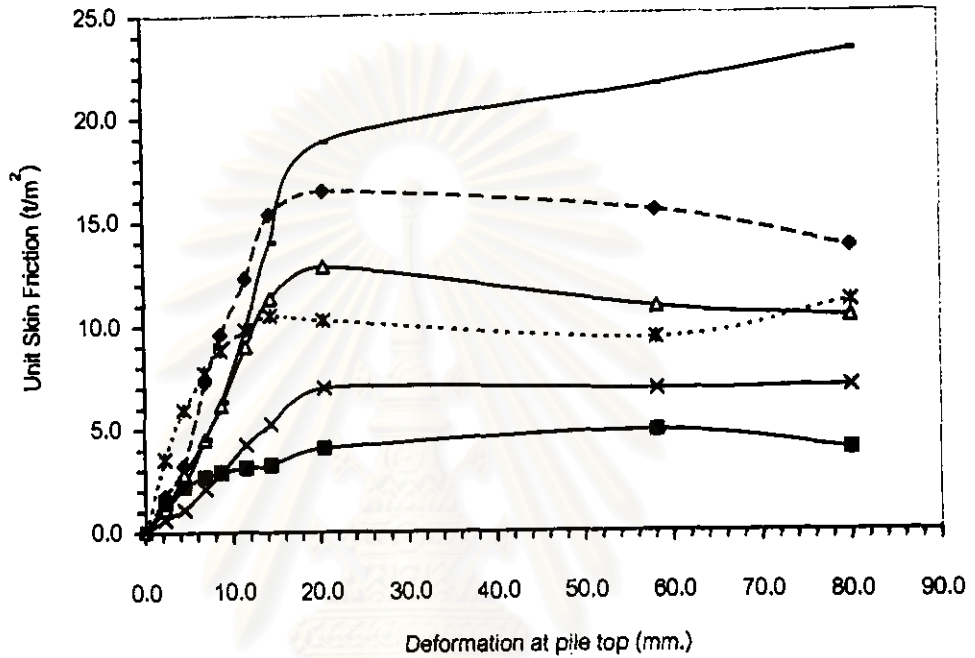
SIZE : Dia 1.50 x 55.70 m.

PROJECT : Hopewell

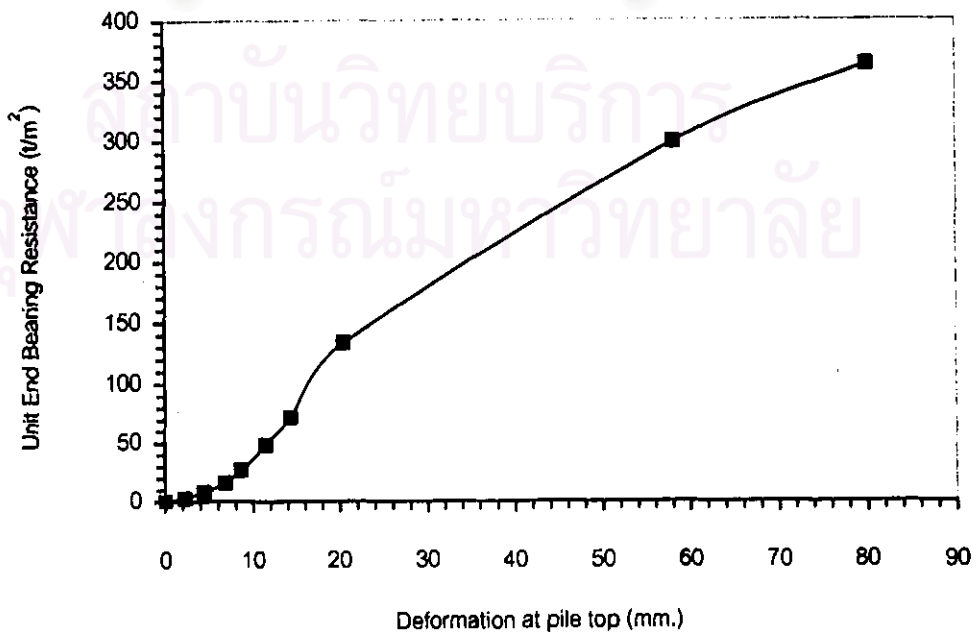
CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 2100 tons

Deformation at Q_{ult} 17 mm.



- Soft to M. Clay
- ▲ V. Stiff to Hard Clay
- ⊛ Stiff to V. Stiff Clay
- × V. Stiff Clay
- ◆ 1 st M. to V. Dense Sand
- 2 nd V. Dense Sand

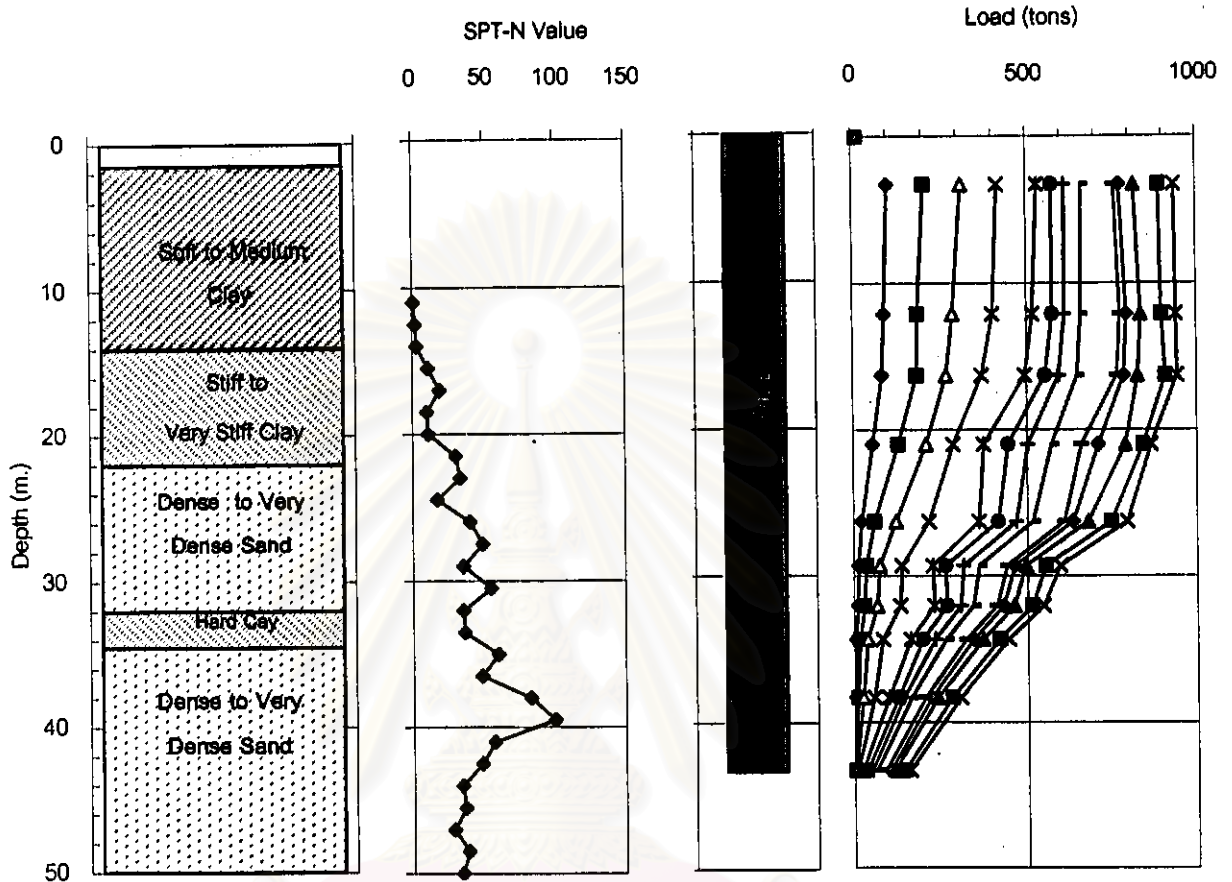


TEST PILE : TP - 19

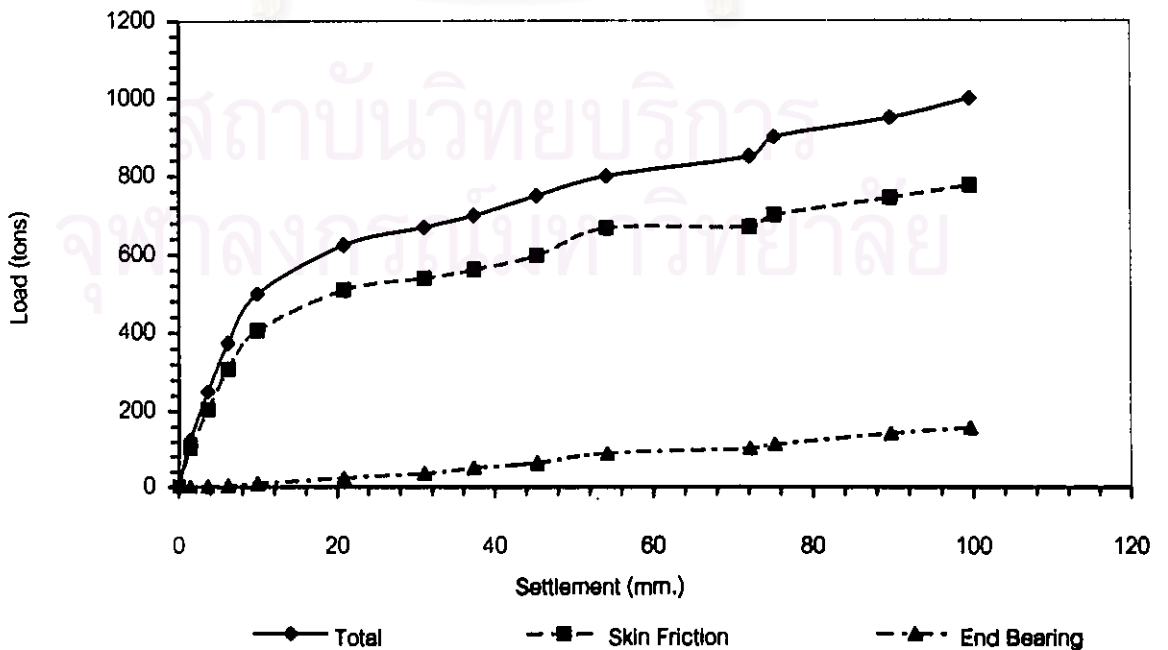
SIZE : Dia 0.80 x 43.30 m.

PROJECT : Hopewell

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 19

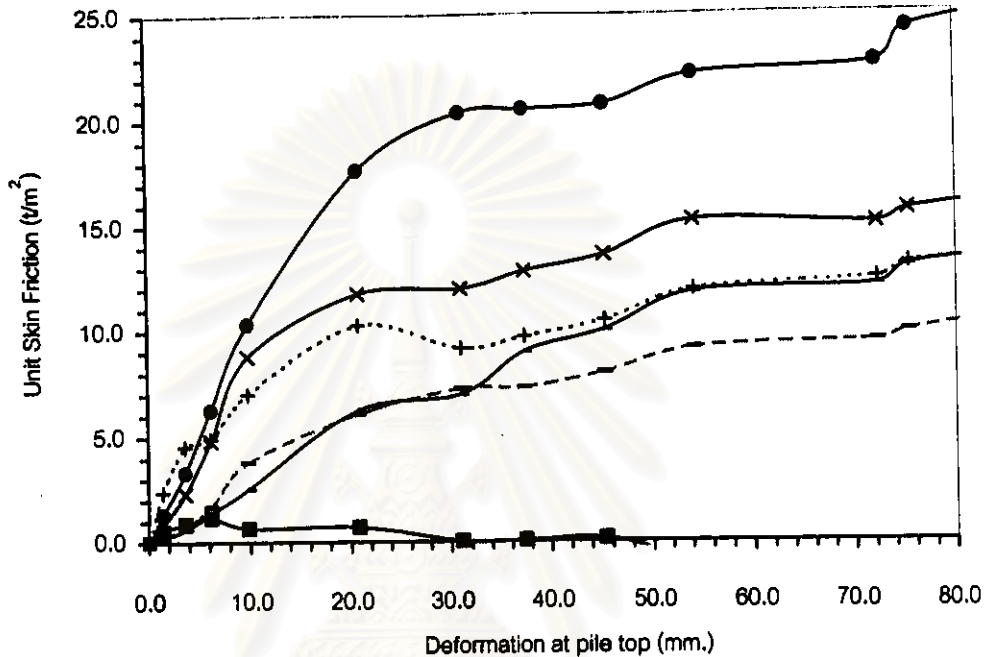
SIZE : Dia 0.80 x 43.30 m.

PROJECT : Hopewell

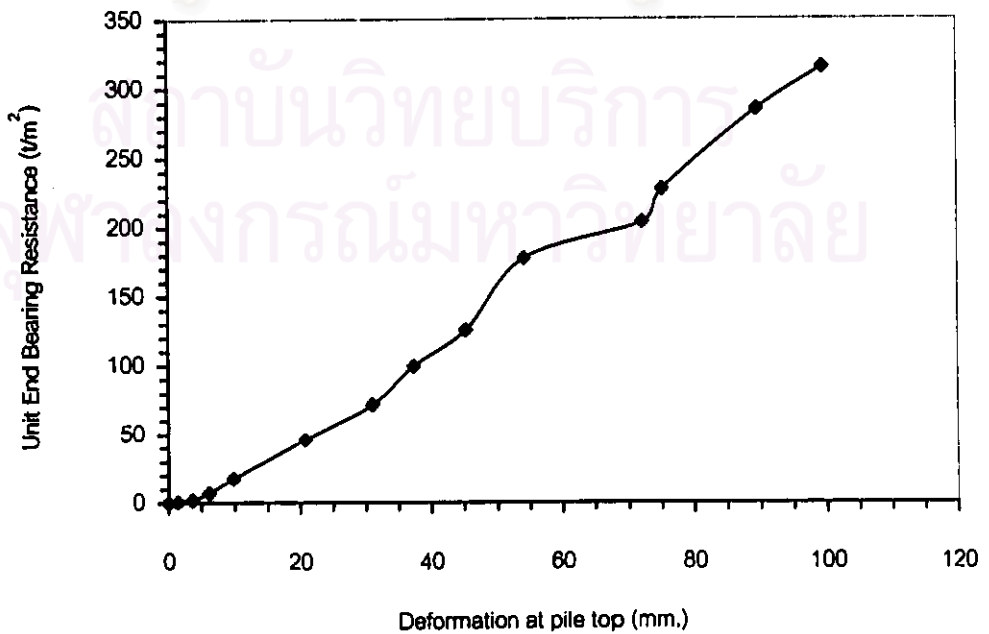
CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 750 tons

Deformation at Q_{ult} 45 mm.



- Soft to M. Clay
- Stiff to V. Stiff Clay
- 2 nd D. to V. Dense Sand
- Hard Clay
- 1 st D. to V. dense Sand
- 1 st Dense Sand

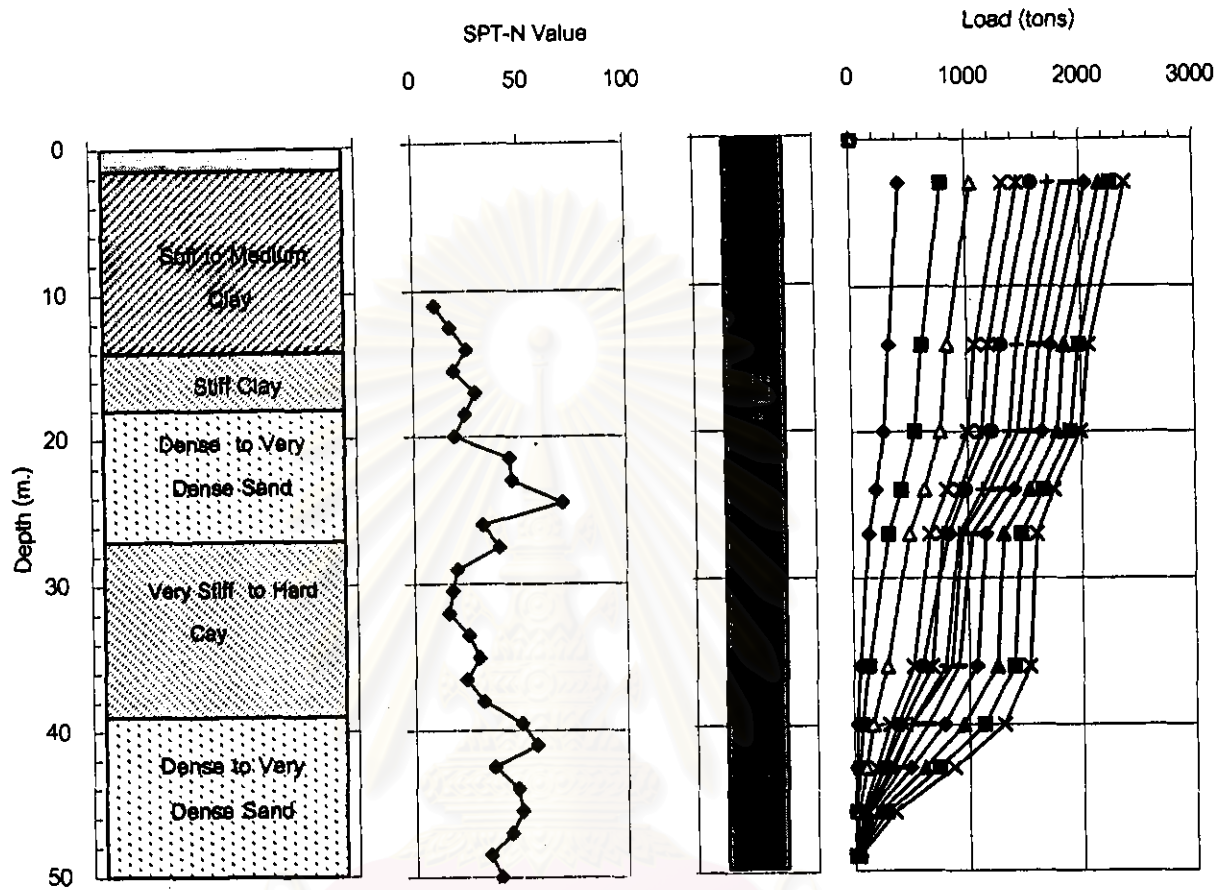


TEST PILE : TP - 20

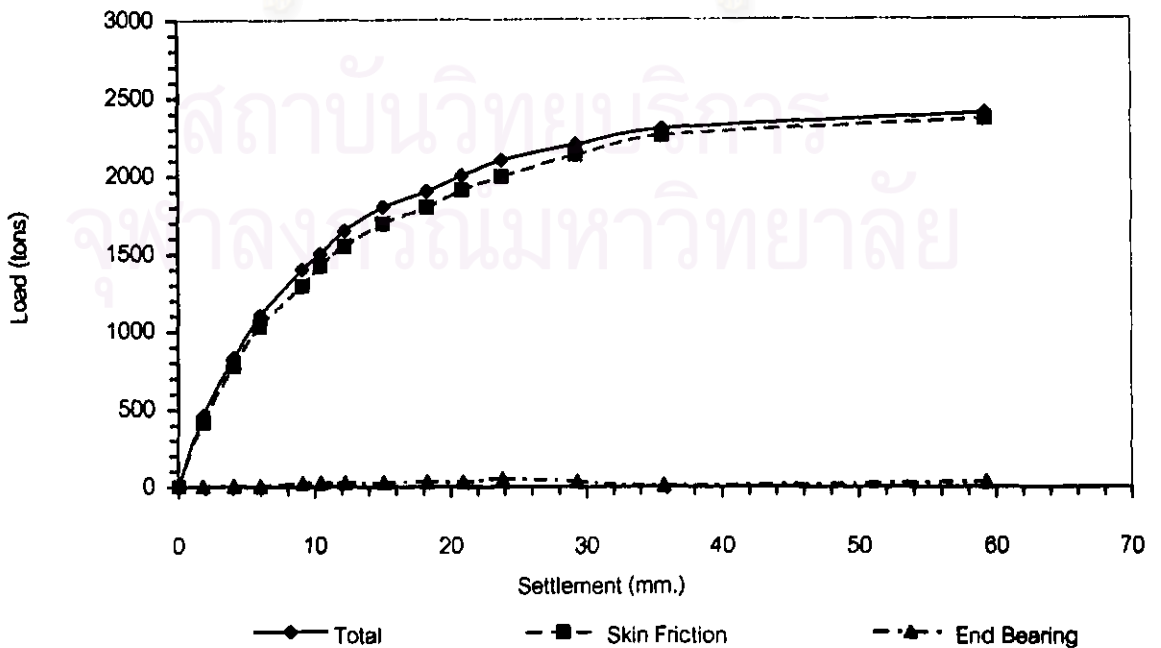
SIZE : Dia 1.50 x 49.70 m.

PROJECT : Hopewell

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 20

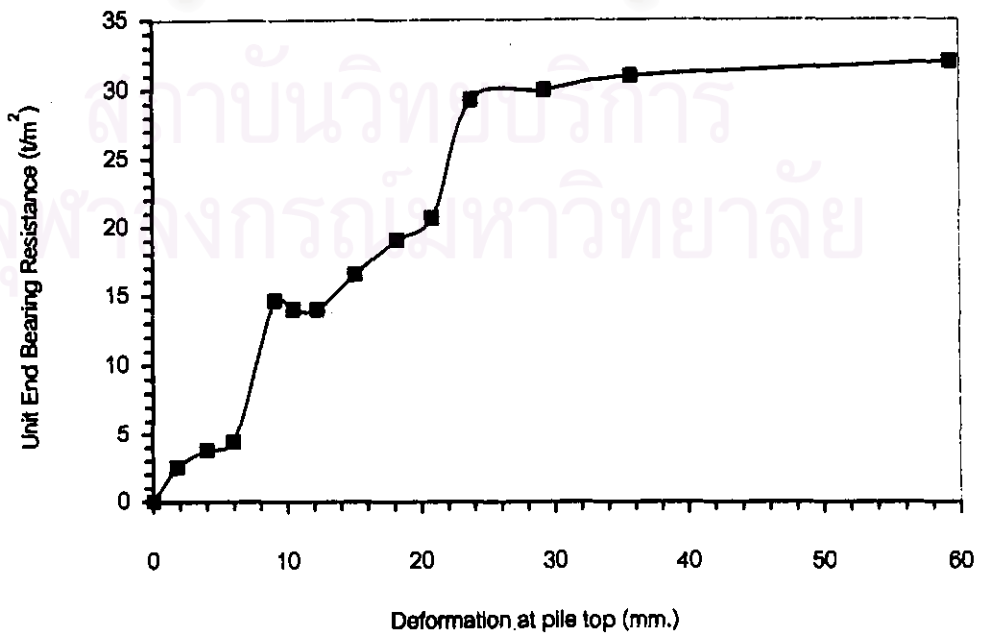
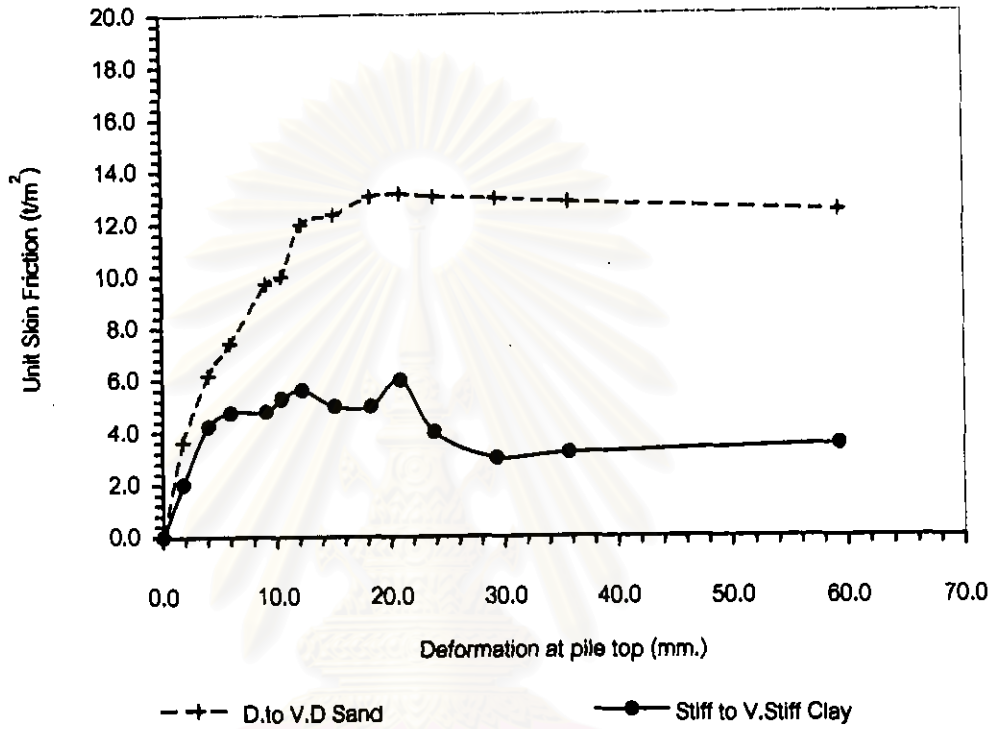
SIZE : Dia 1.50 x 49.70 m.

PROJECT : Hopewell

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 2250 tons

Deformation at Q_{ult} 35.5 mm.

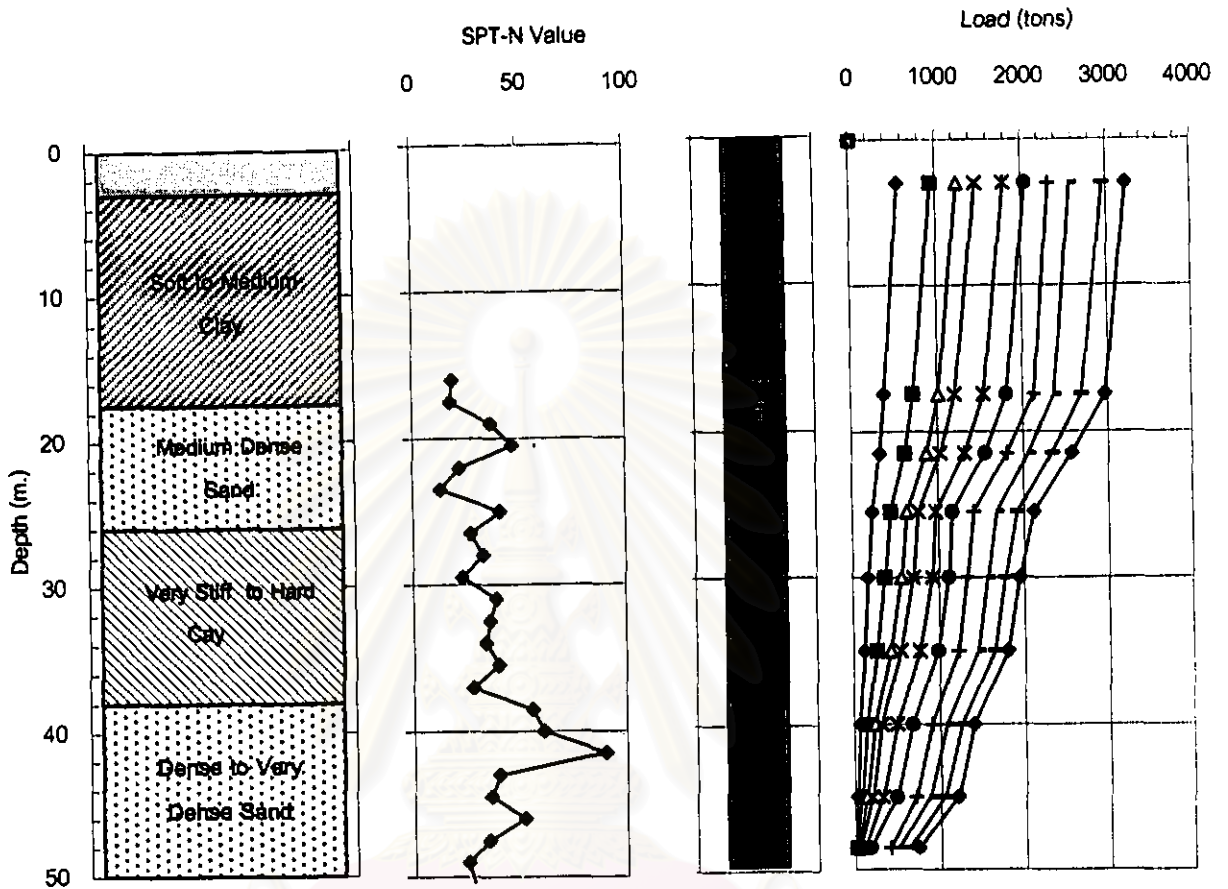


TEST PILE : TP - 21

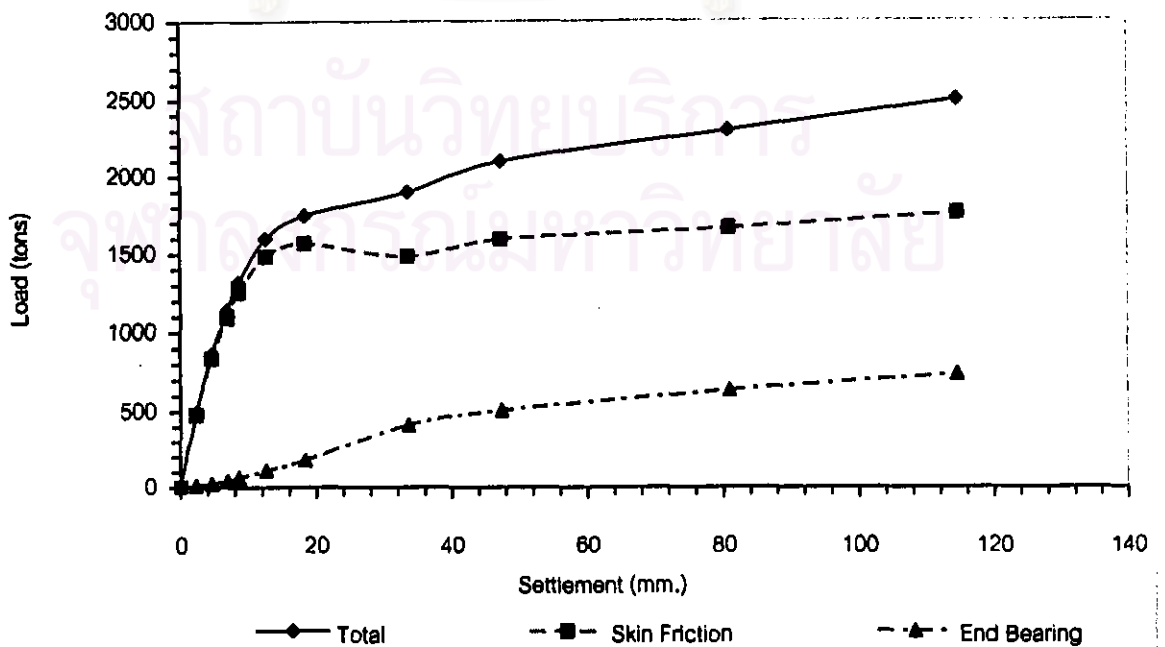
SIZE : Dia 1.50 x 49.65 m.

PROJECT : Hopewell

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 21

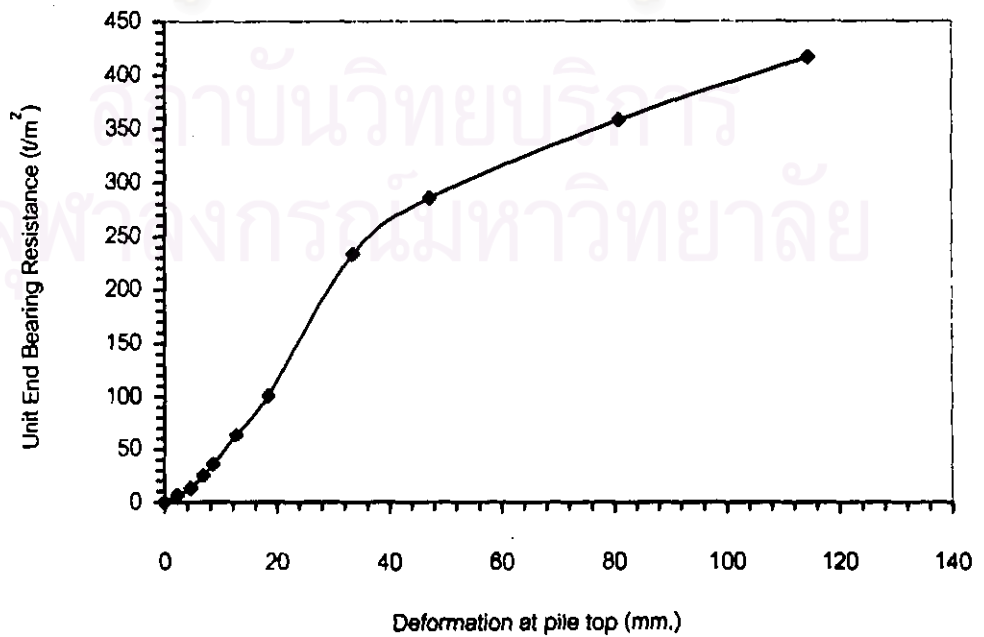
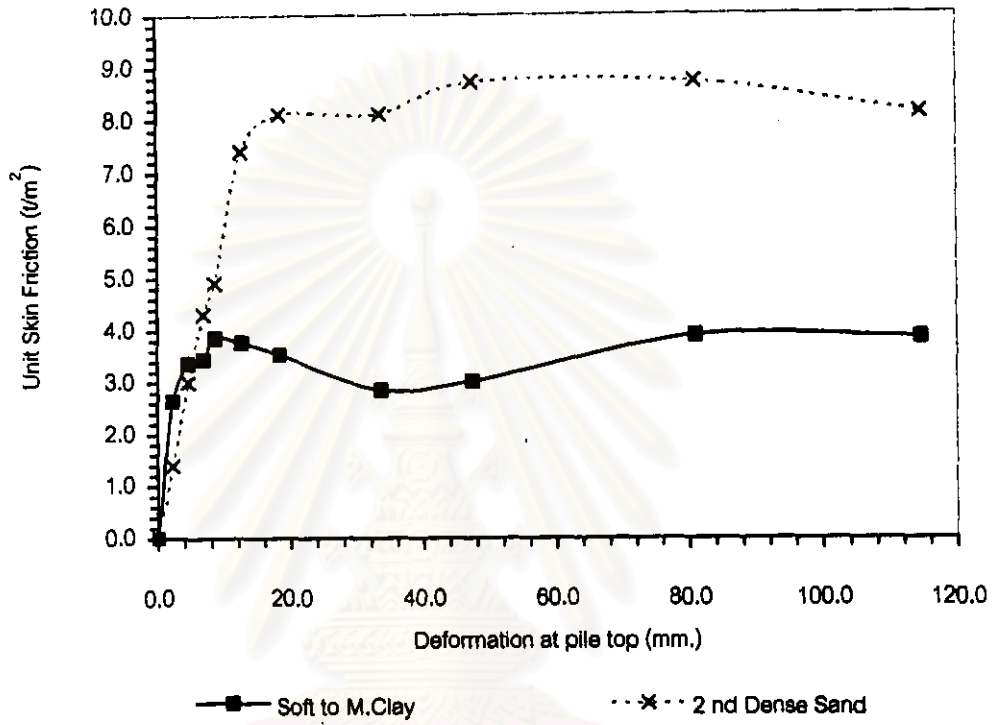
SIZE : Dia 1.50 x 49.65 m.

PROJECT : Hopewell

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 2150 tons

Deformation at Q_{ult} 56 mm.

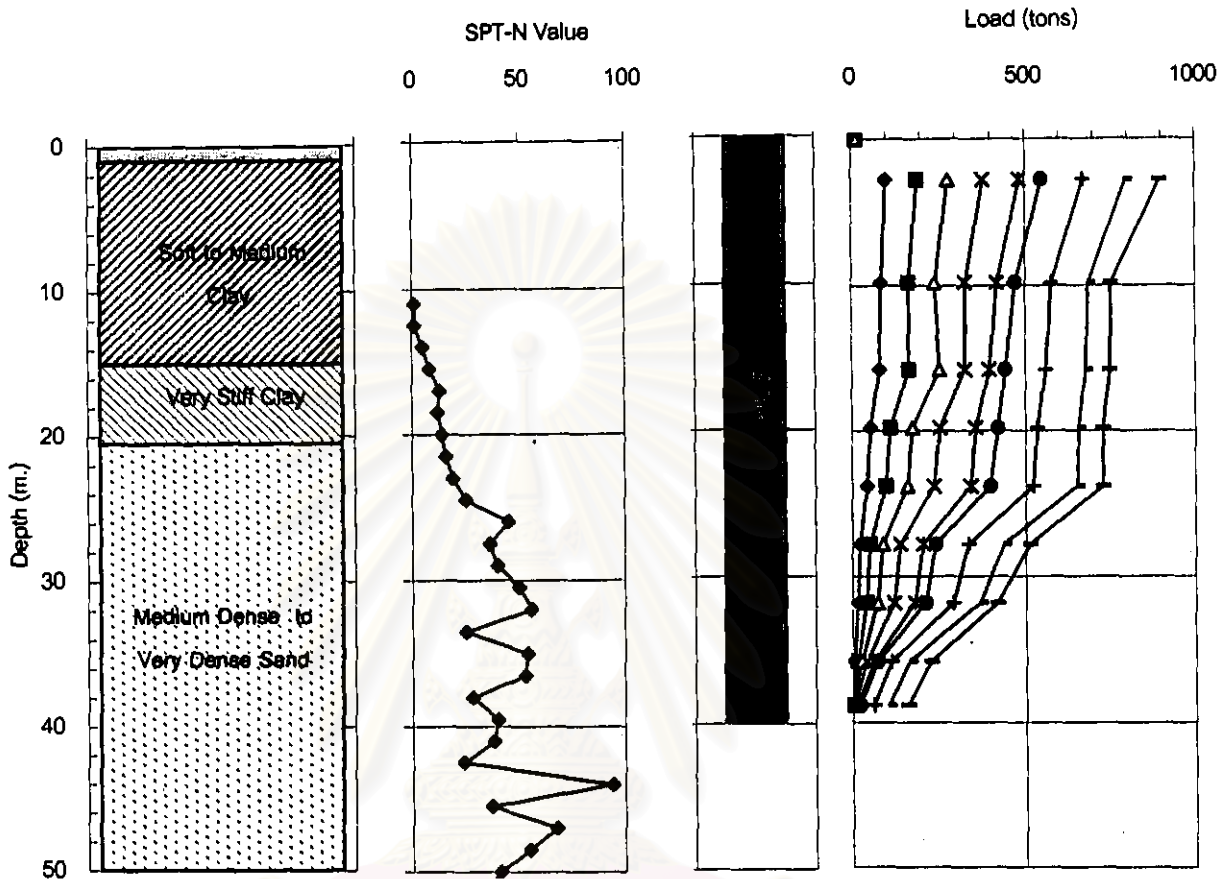


TEST PILE : TP - 22

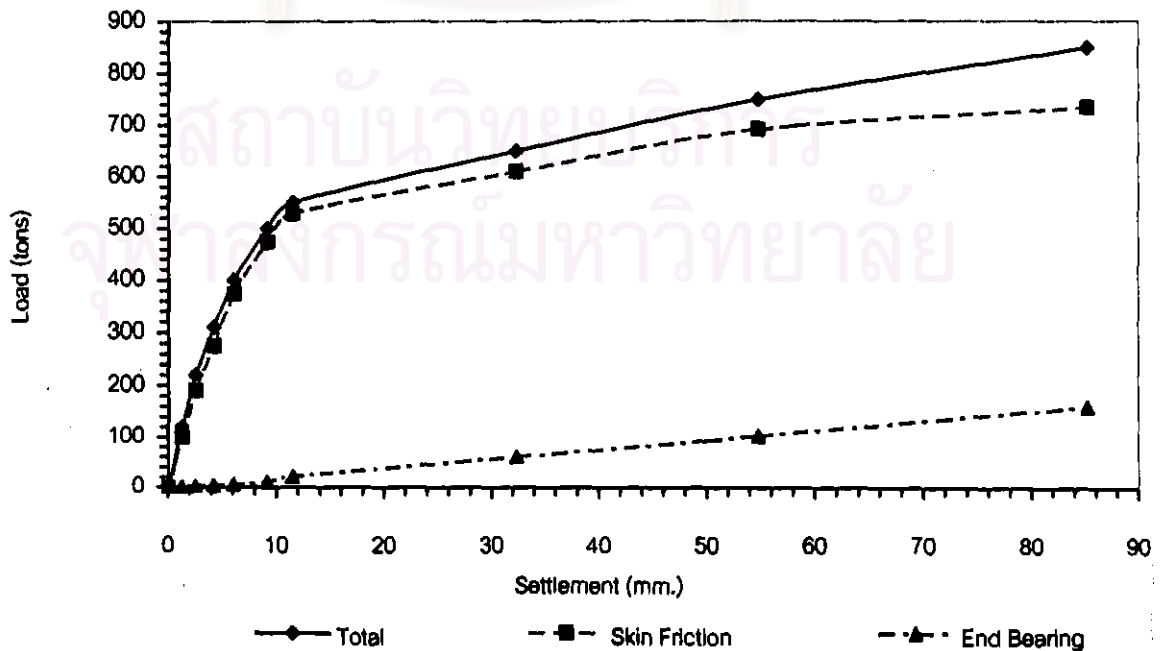
SIZE : Dia 0.80 x 39.80 m.

PROJECT : Hopewell

CONDITION : Normal Pile



Load - Settlement Curve



TEST PILE : TP - 22

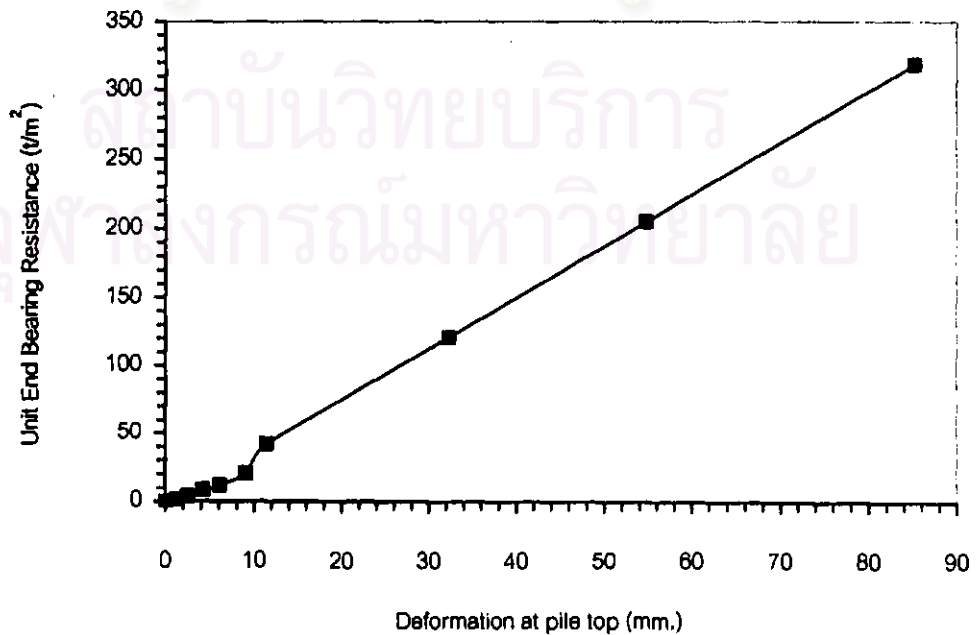
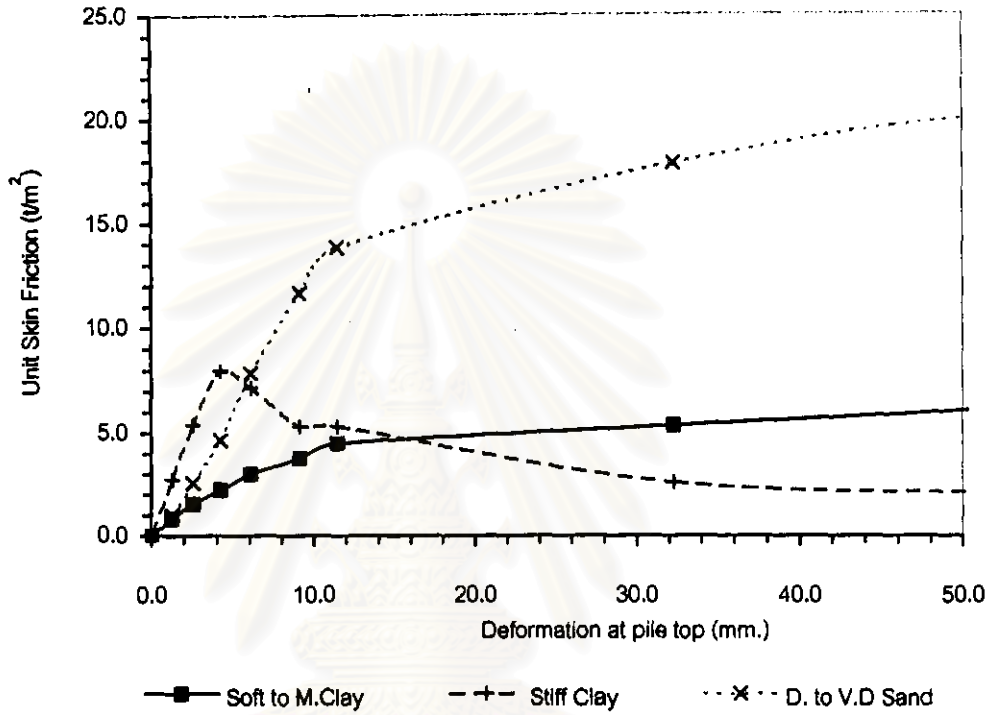
SIZE : Dia 0.80 x 39.80 m.

PROJECT : Hopewell

CONDITION : Normal Pile

Q_{ult} (Butler & Hoy (1977)) 660 tons

Deformation at Q_{ult} 35.5 mm.

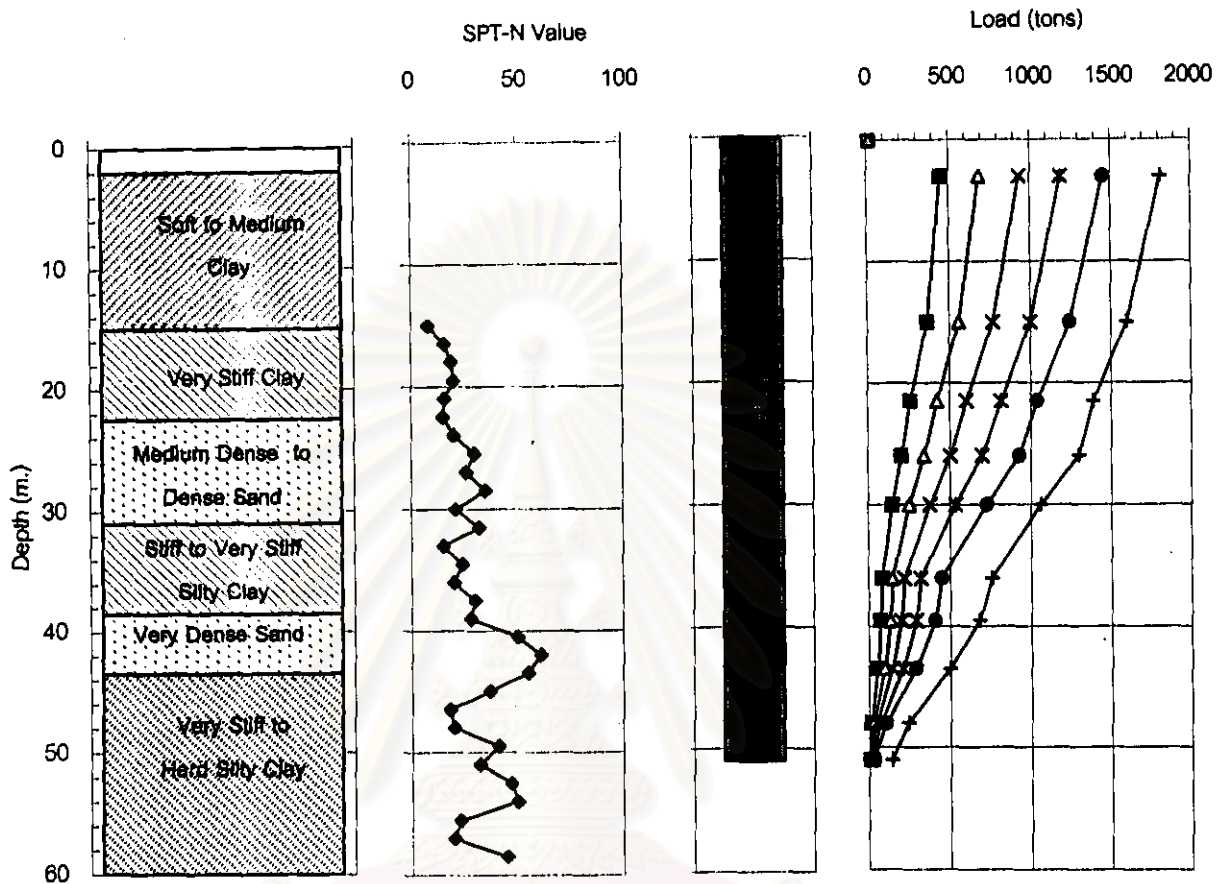


TEST PILE : TP - 23

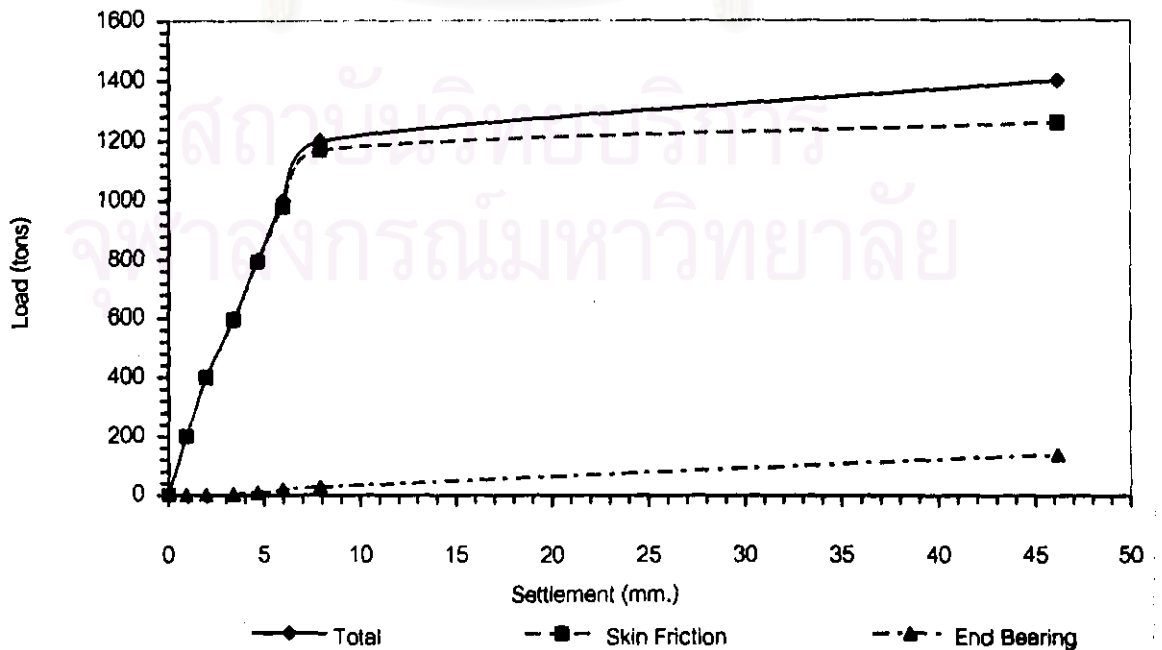
SIZE : Dia 1.50 x 50.97 m.

PROJECT : Hopewell

CONDITION : Normal Pile (Tip in Clay)



Load - Settlement Curve



TEST PILE : TP - 23

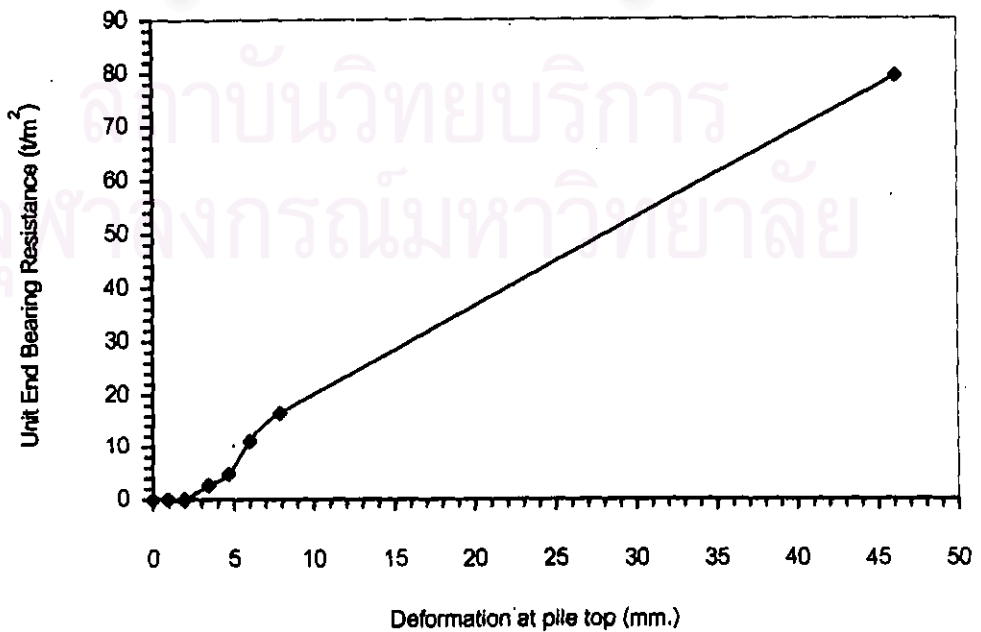
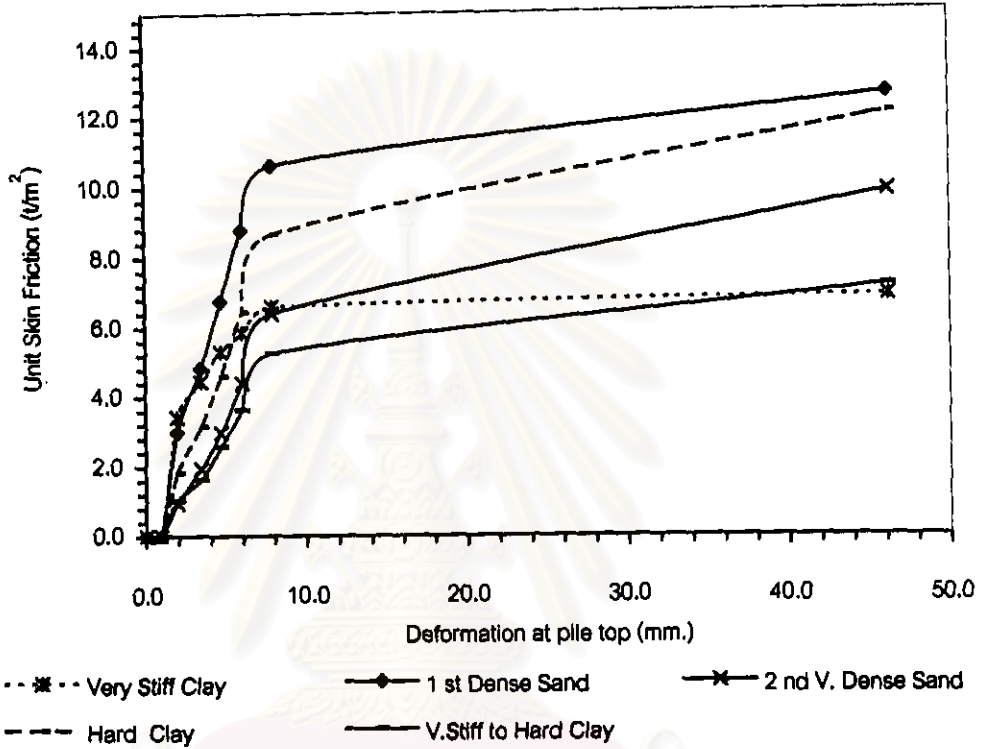
SIZE : Dia 1.50 x 50.97 m.

PROJECT : Hopewell

CONDITION : Normal Pile (Tip in Clay)

Q_{ult} (Butler & Hoy (1977)) 1280 tons

Deformation at Q_{ult} 19.3 mm.

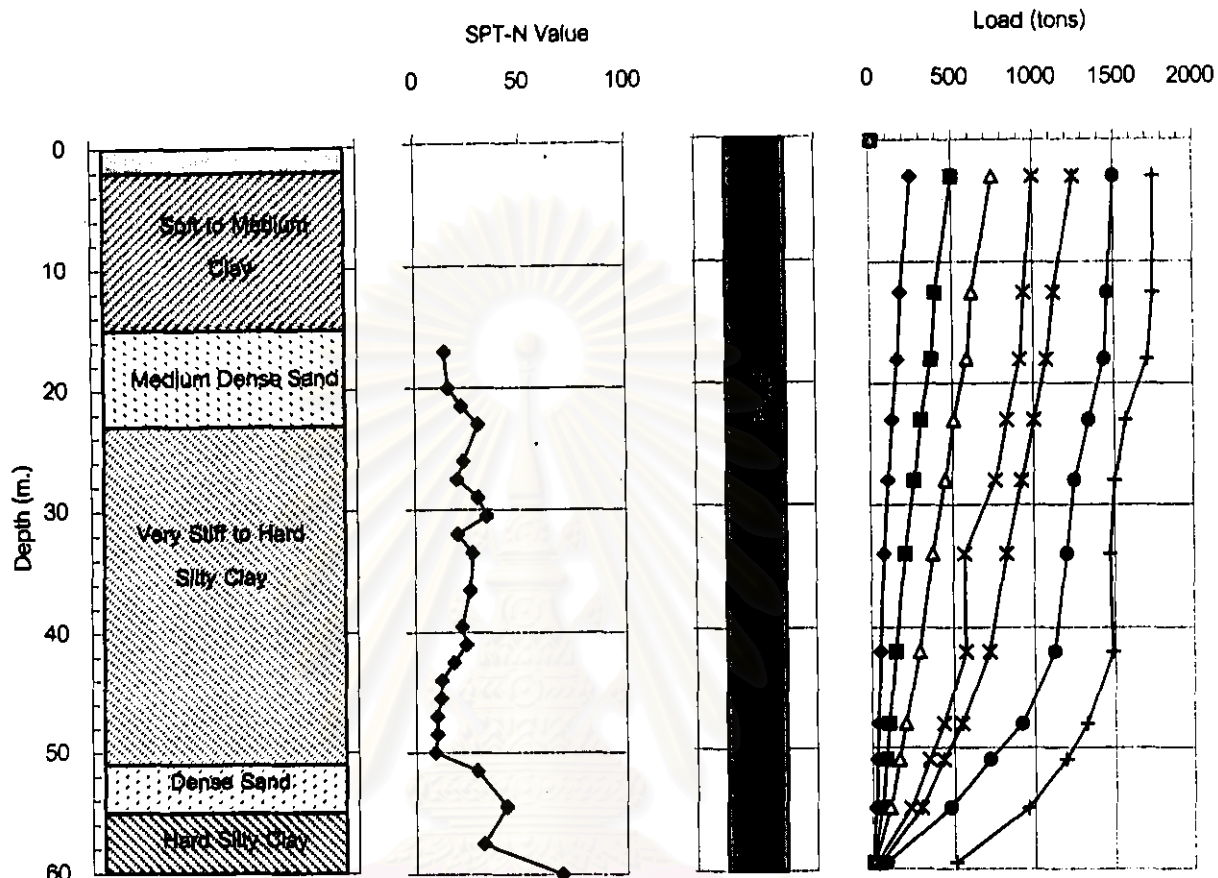


TEST PILE : TP - 24

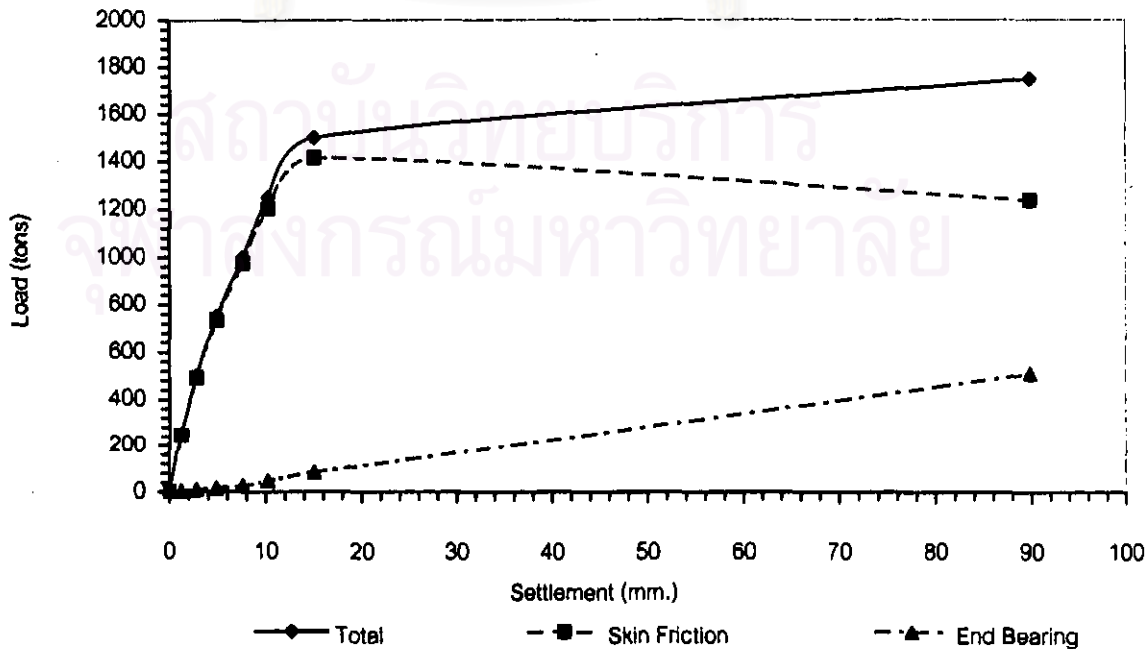
SIZE : Dia 1.50 x 60.00 m.

PROJECT : BWWT

CONDITION : Normal Pile (Tip in Clay)



Load - Settlement Curve



TEST PILE : TP - 24

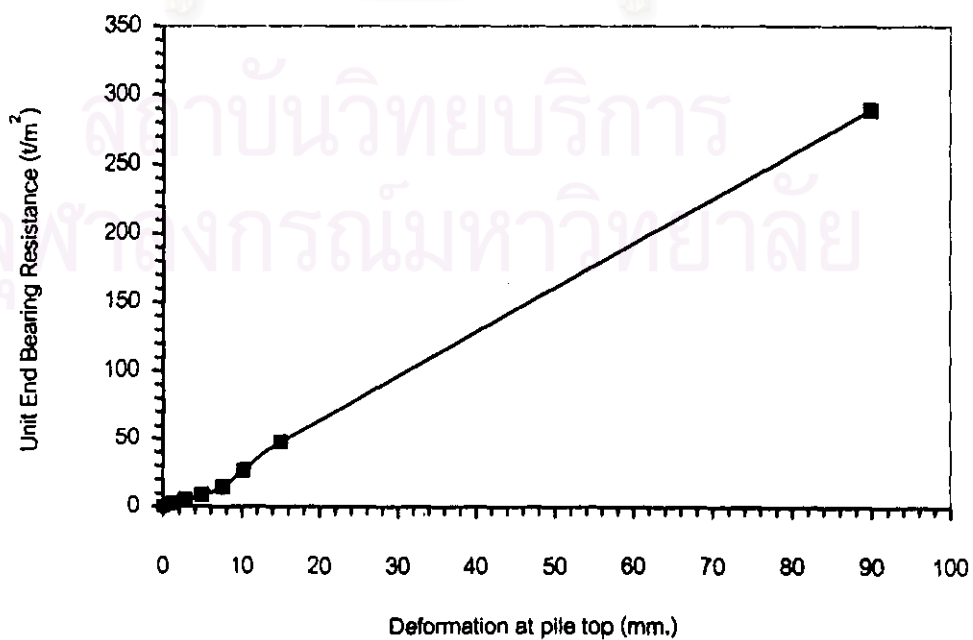
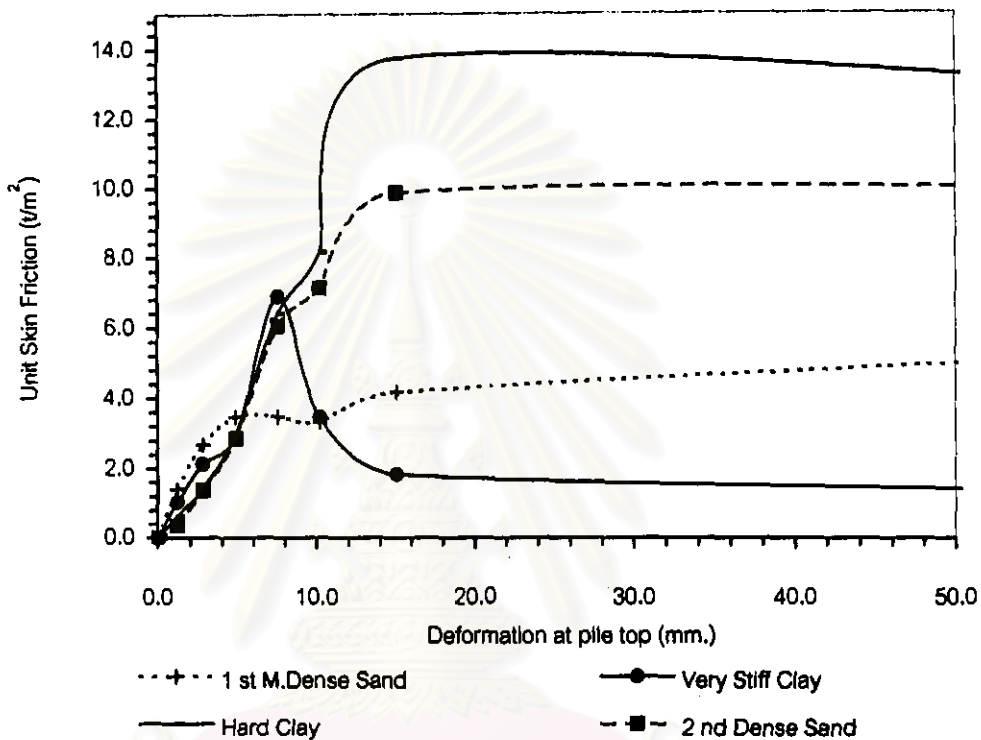
SIZE : Dia 1.50 x 60.00 m.

PROJECT : BWWT

CONDITION : Normal Pile (Tip in Clay)

Q_{ult} (Butler & Hoy (1977)) 1560 tons

Deformation at Q_{ult} 27 mm.

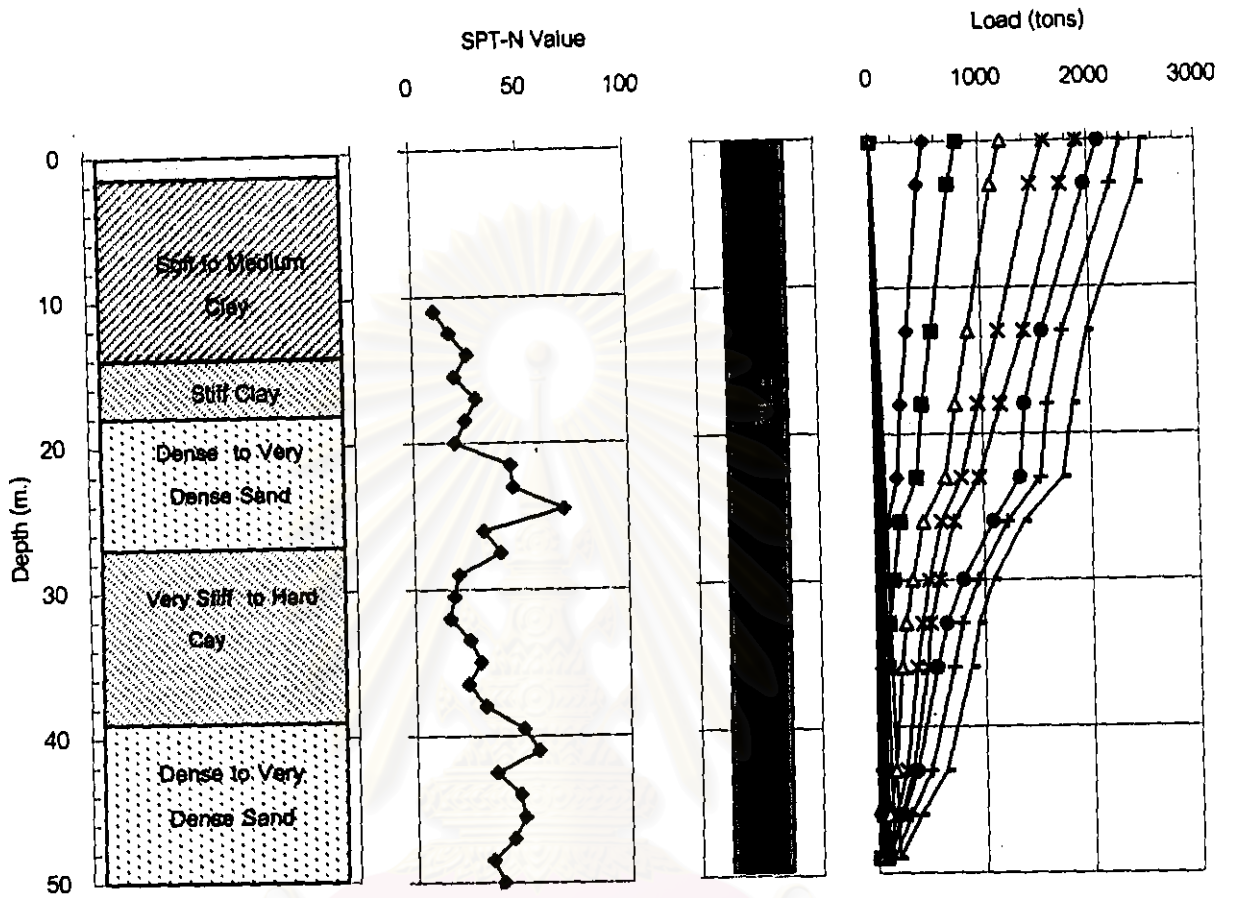


TEST PILE : TP - 25

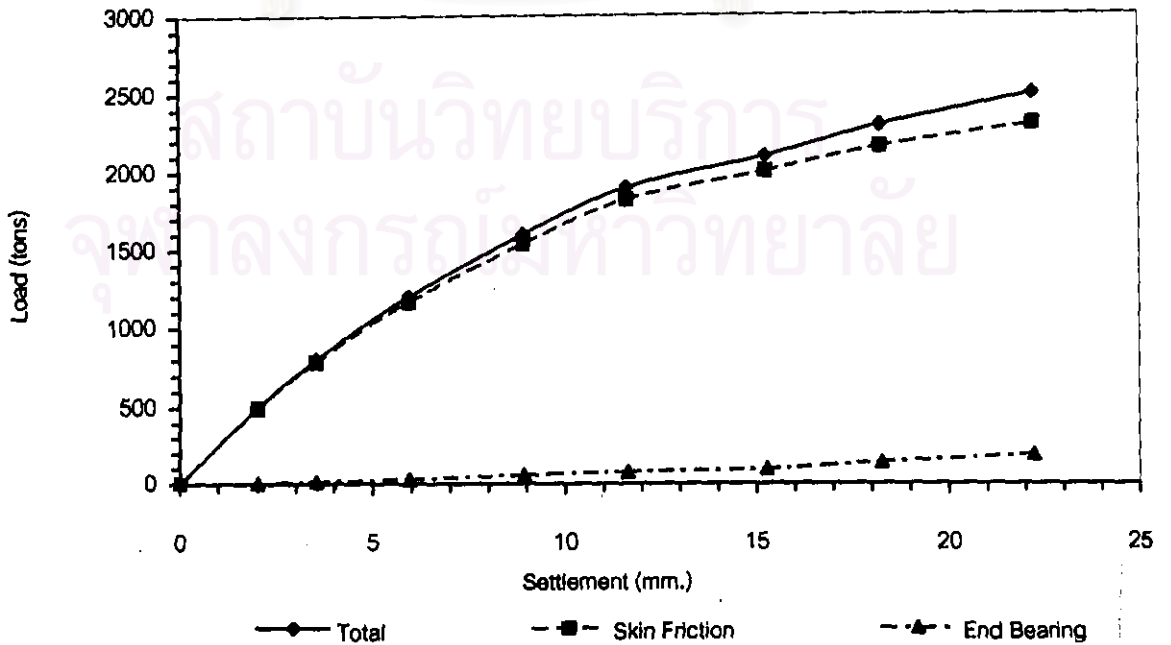
SIZE : Dia 1.50 x 49.70 m.

PROJECT : Hopewell

CONDITION : Normal Pile (use Polymer)



Load - Settlement Curve



TEST PILE : TP - 25

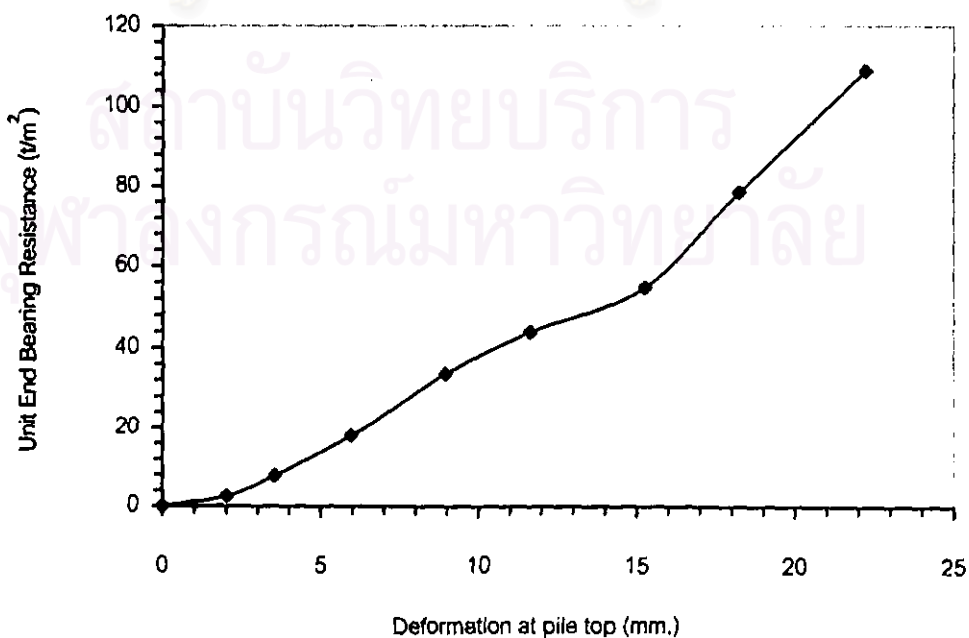
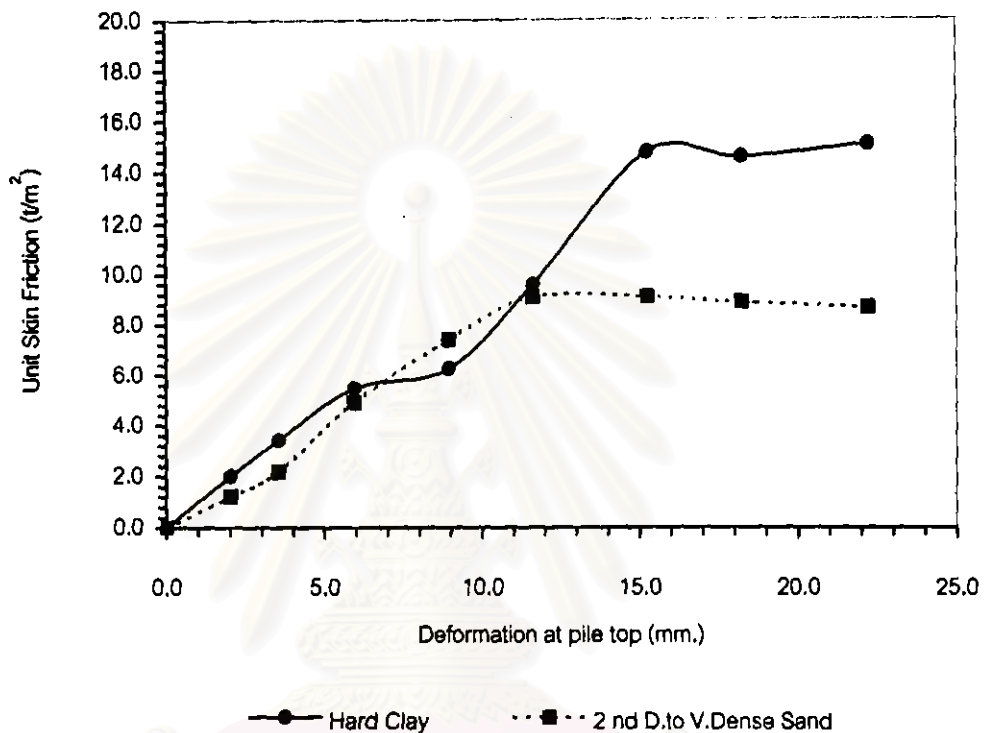
SIZE : Dia 1.50 x 49.70 m.

PROJECT : Hopewell

CONDITION : Normal Pile (use Polymer)

Q_{ult} (Butler & Hoy (1977)) 2536 tons

Deformation at Q_{ult} 22 mm.

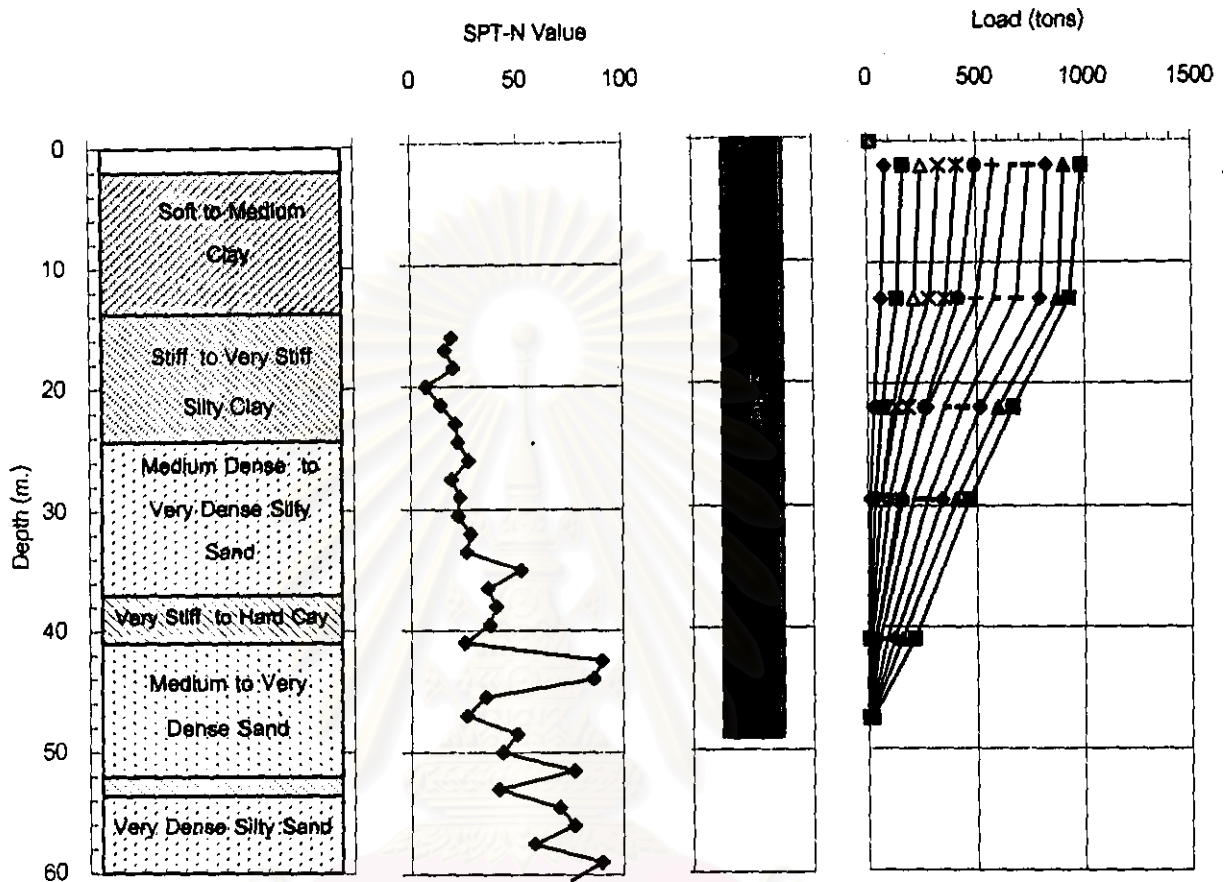


TEST PILE : TP - 26

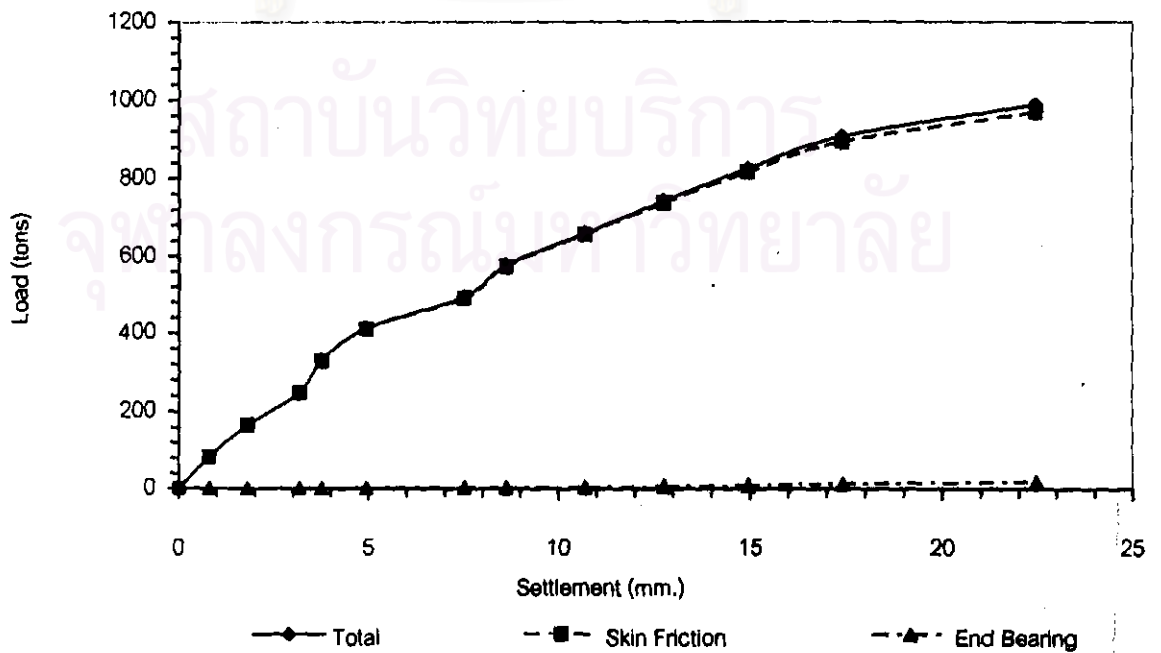
SIZE : Dia 0.80 x 49.00 m.

PROJECT : Rama-8 Bridge

CONDITION : Normal Pile (use Polymer)



Load - Settlement Curve



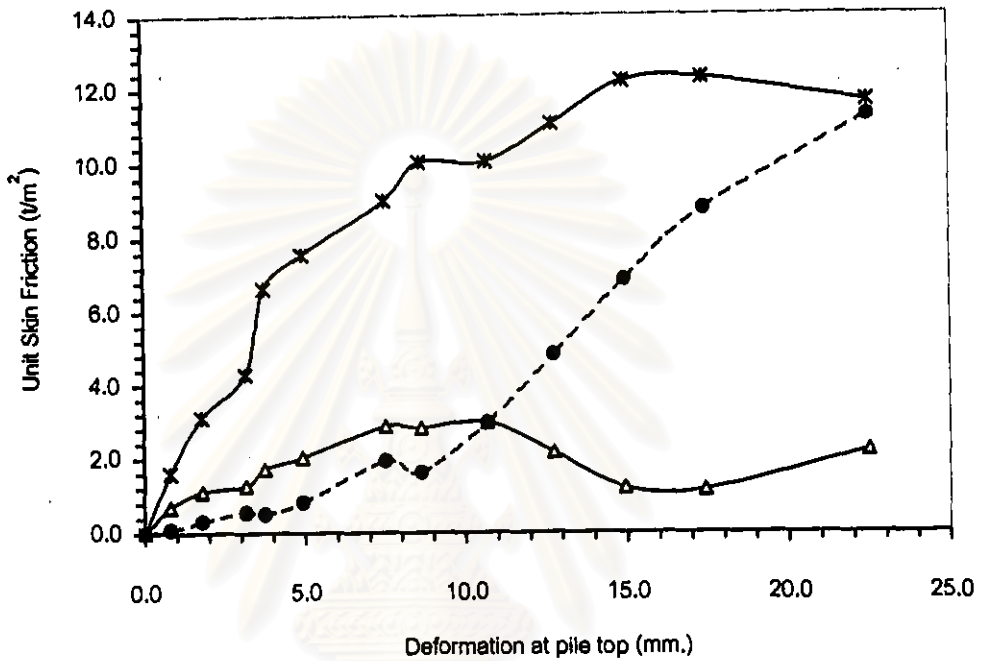
TEST PILE : TP - 26

SIZE : Dia 0.80 x 49.00 m.

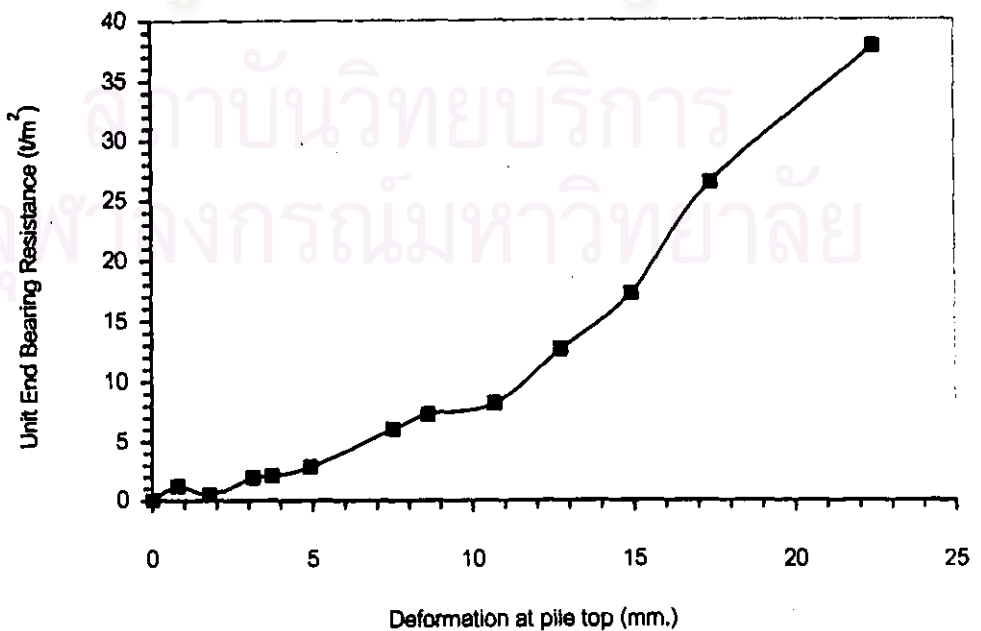
PROJECT : Rama-8 Bridge

CONDITION : Normal Pile (use Polymer)

Q_{ult} (Butler & Hoy (1977)) 957 tons
 Deformation at Q_{ult} 20.3 mm.



△ Soft to M. Clay x Stiff to V. Stiff Clay ● 2nd M to V. Dense Sand



ประวัติผู้เขียน

นายชาญชัย ทรัพย์มณีวงศ์ เกิดวันที่ 23 กุมภาพันธ์ พ.ศ. 2517 ที่จังหวัด กรุงเทพมหานคร สำเร็จการศึกษาปริญญาตรีวิศวกรรมศาสตรบัณฑิต (เกียรตินิยมอันดับสอง) ภาควิชาวิศวกรรมโยธา คณะวิศวกรรมศาสตร์ สถาบันเทคโนโลยีพระจอมเกล้าธนบุรี ในปีการศึกษา 2539 และเข้าศึกษาต่อในหลักสูตรวิศวกรรมศาสตรมหาบัณฑิต สาขาวิชาวิศวกรรมโยธา ภาควิชาวิศวกรรมโยธา คณะวิศวกรรมศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย เมื่อปีการศึกษา 2540



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย