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鋼直杭桟橋の実寸大模型水平載荷実験資料集

(その2 清水港興津地区における実験)

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BASIC DATA OF LATERAL LOAD TESTS ON LARGE SCALE MODEL STEEL PILE PIERS

(Part 2 Tests at Okitsu, Shimizu)

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The basic data of lateral load tests on large scale model steel pile piers are shown in this paper. The tests were carried out at Okitsu, Shimizu from February to March in 1965 to obtain the vibrational properties of steel pile piers. Various types of lateral load tests such as static load tests, alternating load tests, static yield tests, free vibration tests and sinusoidal vibration tests were included in them.

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鋼直杭棧橋の実寸大模型水平載荷実験資料集

(その2 清水港興津地区における実験)

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要旨

昭和40年2月～3月の約1ヶ月にわたり、清水港興津地区において実寸大模型による鋼直杭棧橋の水平載荷実験が行なわれた。実験は静荷重試験・交番荷重試験・自由振動試験・正弦強制振動試験・静的破壊試験などから成っている。本資料はこれらの各試験から得られた一時的な資料をまとめて収録したものである。

1. まえがき

昭和38年度から、港湾技術研究所構造部耐震構造室を中心として鋼直杭棧橋の合理的な耐震設計法の確立を目指とする研究が進められて来た。本報告は、この研究に基盤的な資料を提供した二つの実寸大模型棧橋の現地実験のうち、昭和39年度に清水港興津地区で実施された実験の一次的な資料を収録したものである。実験そのものはかなり以前のものであり、実験資料なども研究の進展に応じて適宜公表されて来ているが¹⁾、昭和45年度に至って、研究の成果がまとめられ刊行された²⁾のを機に、基礎的な資料についてもまとめて資料集として公刊することにした。

2. 実験の概要

実験は清水港興津地区で実施された。現地は水深約6.5mで、土質条件は図-1の土質柱状図に示す如く、表面に1m弱の厚さのヘドロ層があり、その下にN値が10ないし20程度のシルト質砂の層が続いている。杭の横抵抗の観点から見ると、海底面下3～4mの深さまでを考慮してS型地盤³⁾としてよさそうである。 \bar{N} 値³⁾は3程度となる。

模型棧橋は直径50.8cm、肉厚9mm、全長21m、根入長10mの鋼管直杭4本を5m角に打ち込んだものである。棧橋頭部はH型鋼(Hp300)で各杭を剛結した上で、鉄筋コンクリートを打設し厚さ50cmの床版とした。床版部の総重量は5.54tonである。模型棧橋の諸元をまとめ表-1に、平面図・断面図などを図-2にそれぞれ示す。また、測定足場なども含め実験全体の施設の配置を図-3に示す。この図にも見られる如く、上述のような模型棧橋をA・B二基作成し、A棧橋では静荷重試験および破壊試

験、B棧橋では交番荷重試験、自由振動試験および強制振動試験をそれぞれ実施した。表-2に載荷試験の一覧を示す。

静荷重試験・交番荷重試験・静的破壊試験などの静的な載荷試験における載荷は荷重の小さい時にはオイルジャッキによった。荷重が大きい場合はワイヤーをかけてウインチで引張るという方法で載荷している。載荷の方法の相異によって測定方法も変わり、前者では荷重をブルーピングリングで、変位をダイヤルゲージで測定したが後者ではロードセルで荷重を、差動変圧型の変位計で変位を測定した。

動的な載荷は、自由振動試験では切断金具を間にはさんだワイヤーをウインチで引張り、所定の荷重をかけておいて自由振動を起こさせるという方法によった。強制振動試験には振動数を変えて起振力を一定に保ち得る大型の起振機⁴⁾を使用した。測定は差動変圧型変位計による変位測定と非接着抵抗線差計型加速度計による加速度測定を行なった。測定機器類の一覧を表-3に示す。

載荷と変位測定はすべて模型棧橋頭部の床版部で行なわれている。その他、本実験で特筆すべきこととしては、測定システムを車載とする新しい方式⁵⁾を初めて大規模な実験に採り入れたことが挙げられる。ブルーピングリング・ダイヤルゲージなど人力による測定を除いて、すべてこの方式によって記録されている。

3. 各試験の方法

3.1 静荷重試験

静荷重試験はA棧橋を使い、他のすべての試験に先立つて、地盤が搅乱を受けていない状態で実施された。具体的

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な方法は、オイルジャッキで一方向に載荷し、最大荷重およびそれに至る途中の何点かで長時間載荷を行ない最終的な静的平衡の状態の測定を目標とするものである。載荷がオイルジャッキによっているため、長時間載荷ではオイルジャッキのストロークを一定に保ち変位の減少を測定している。したがって、リラクゼーション過程を経て静的な平衡状態に近づけるという形の試験と言える。実際の測定は荷重にして約 0.25 ton 每に載荷直後に行なった他に、1.0、2.0、3.0、4.0（最大荷重） ton で 3 分ないし 7 分の時間待ち後の測定も行なった。荷重減少時は約 0.25 ton 每に除荷直後の測定のみを実施した。

3.2 交番荷重試験

交番荷重試験は一定荷重をあらかじめ定め、その荷重までまず一方の側へ載荷し除荷する。次いで、同じ荷重まで反対側に載荷・除荷する。これを 1 サイクルとして、同一荷重に対し原則として 4 サイクル行なった。あらかじめ設定した一つのサイクルの中の正負両方向の最大荷重を折返し荷重と呼ぶことにする。交番荷重試験は前後 4 回行なわれたが、実施された順番に交番荷重試験 I、II、III、IV、とそれぞれ名付けた。それぞれの試験における折返し荷重は表-2 の第五欄に示す通りで、表中の順番で実施されている。

測定は各サイクルの折返し荷重を 8 ないし 16 等分するところで載荷もしくは除荷の直後に実施した。ただし、交番荷重試験 III では表-3 に示した如く測定一記録の方式が他と異なり非常に密な間隔でデータが得られている。

3.3 自由振動試験

自由振動試験は模型棧橋にワイヤーをかけウインチで引張って初期変位を与えておき、ワイヤーを切断して自由振動を起こさせるというものである。ワイヤーの切断には切断金具を利用した。切断金具は鍛鉄製のバーで所定の荷重に達すると破断するようになっていて、これを通してワイヤーを引張るという方法を探った。したがって、自由振動のレベルは初期荷重の大きさで制限した訳である。

この試験は前後 3 回行なわれていて、実施された順に自由振動試験 I、II、III の如く区別する。初期荷重の大きさは表-2 に示す通りで、表に示されている順に各 1 回づつ実施した。自由振動試験 III は静的破壊試験や交番荷重試験 III などと同程度の変形レベルのところでの動的な挙動を把握することを目的として実施されたものである。

3.4 強制振動試験

強制振動試験は模型棧橋の頭部床版上に設置されている起振機によって正弦型の強制外力を棧橋に与え、強制振を行なわせるものである。加振外力は荷重振巾が一定の正弦型である。

強制振動試験は前後 3 回行なわれていて、他の試験と同様に、実施順に I、II、III を附して区別する。加振力の大きさは表-2 に示す通りで、表に示されている順に実施された。各加振力に対し強制振動数は模型棧橋の固有振動数をはさみ両側各 8 点程度選ばれていて、最初、振動数の低い方から高い方へ変え、次いで、最高振動数から低い方へ変える往復加振の形で行なっている。

3.5 静的破壊試験

静的破壊試験は A 棧橋で実施した。試験方法は一方向へのみ載荷したことを除けば、交番荷重試験 III と同様である。最大荷重は杭 1 本当たりにして 10 ton 強であるが、ほぼ 8 ton 程度で模型棧橋脚柱の鋼管杭が降伏し、最終荷重での模型棧橋床版部の変位量は降伏時のそれのほぼ倍程度であった。なお、試験中および試験後に目視によって見出せるような破損は皆無であった。載荷は連続 6 回行なわれたが、そのうち 2 回は最大荷重附近でワイヤーが破断したため、模型棧橋の自由振動が起っている。

4. 実験結果の一覧

各試験から得られた一次的な資料を表-4 に従って一覧の形で示す。

謝 詞

本実験の実施に当っては第五港湾建設局なんなく清水港工事事務所の方々に多大の御配慮を戴いた。ここに記して厚く謝意を表する。

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港研資料、15号 1965.2

表-1 模型棧橋の諸元

杭	外 径	50.8 cm
	肉 厚	9 mm
	全 長	24 m
	根 入 長	10 m
床 版	形 式	鉄骨組み 鉄筋コンクリート
	重 量	55.4 ton

表-2 載荷試験一覧(清水・興津)

年月日	実験種別	略称	使用 棧橋	最大荷重または加振レベル (杭1本当り、ton)	繰返し 回 数	測定項目
4/2/19.20	静荷重試験	SL	A	F _{max} =3.75	1	杭頭荷重および変位
2/20~3/1	交番荷重試験 I	AL-I	B	F _t ^{**} =0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 3.0, 2.0, 1.0	各4以上	全 上
3/3~4	自由振動試験 I	PV-I	B	F _o ^{***} =1.0, 2.0, 3.0, 4.0, 3.0, 2.0, 1.0	各1以上	杭頭変位、加速度分布
3/4~6	強制振動試験 I	SV-I	B	F _o ^{***} =0.05, 0.075, 0.1, 0.125, 0.075 0.05	各1	全 上
3/6	自由振動試験 II	PV-II	B	F _o =1.0, 2.0, 3.0, 4.0, 3.0, 2.0, 1.0	各1	全 上
3/7~11	交番荷重試験 II	AL-II	B	F _t =全上	各4	杭頭荷重および変位
3/14	強制振動試験 II	SV-II	B	F _o =0.025, 0.05, 0.075, 0.1, 0.125, 0.1, 0.05	各1	杭頭変位、加速度分布
3/13~19	交番荷重試験 III	AL-III	B	F _t =2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0 7.0, 6.0, 5.0, 4.0, 3.0, 2.0	各4	杭頭荷重および変位
3/20	自由振動試験 III	PV-III	B	F _o =1.0, 3.0, 4.0, 5.0, 5.5, 6.0, 6.5, 7.0 7.5, 7.5, 6.5, 6.0, 5.5, 5.0, 4.0	各1	杭頭変位、加速度分布
3/21	交番荷重試験 IV	AL-IV	B	F _t =1.0, 2.0, 3.0, 4.0	各1以上	杭頭荷重および変位
3/22~23	強制振動試験 III	SV-III	B	F _o =0.05, 0.1, 0.125, 0.175, 0.02, 0.175, 0.125, 0.1, 0.05	各1	杭頭変位、加速度分布
3/24~25	静的破壊試験	SY	A	F _{max} =10.0	6	杭頭荷重および変位

* F_{max}=最大荷重** F_t=折返し荷重*** F_o=初期荷重(自由振動試験)または強制外力の荷重振巾(強制振動試験)

表-3 使用機器類

試験種別	載荷機器	測定機器
静荷重試験 交番荷重試験 I、II、IV	オイルジャッキ(ケーン浮上げ用、手動)	ブルーピングリング(容量20 ton) ダイヤルゲージ(ストローク5 cm)
交番荷重試験III 静的の破壊試験	ワインチ	ロードセル(容量40 ton) 差動変圧型変位計(ストローク±50 cm)
自由振動試験 I、II、III	ワインチ+切断金具付ワイヤー	差動変圧型変位計(ストローク±50 cm)
強制振動試験 I、II、III	起振機(文献4)参照	非接触抵抗式計型加速度計(容量2 G、5 G)

表-4 図表番号一覧

試験名	図面頁	図面番号	表頁	表番号
静荷重試験	6	4	49~50	5.1、5.2
交番荷重試験 I	7~12	5.1~5.11	51~67	6.1~6.11
全上 II	13~16	6.1~6.7	68~77	7.1~7.7
全上 III	17~23	7.1~7.13	78~112	8.1~8.13
全上 IV	24~25	8.1~8.4	113~118	9.1~9.4
自由振動試験 I	26, 28~29	9.10、13.1~13.8		—
全上 II	26, 30~31	9.11、14.1~14.7		—
全上 III	26, 27, 32~35	9.12.1~12.2 15.1~15.16		—
強制振動試験 I	36~38	16.1~16.6	119~120	10.1~10.6
全上 II	39~42	17.1~17.7	121~122	11.1~11.7
全上 III	43~47	18.1~18.9	123~124	12.1~12.9
静的の破壊試験	48	19	125	13

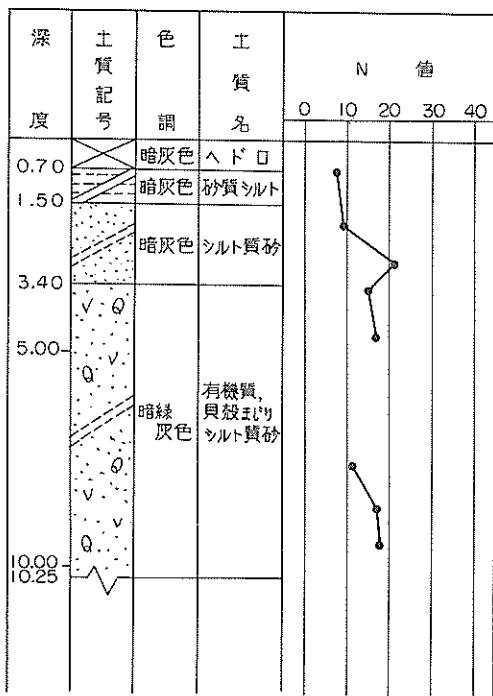


図-1 実験地点の土質柱状図

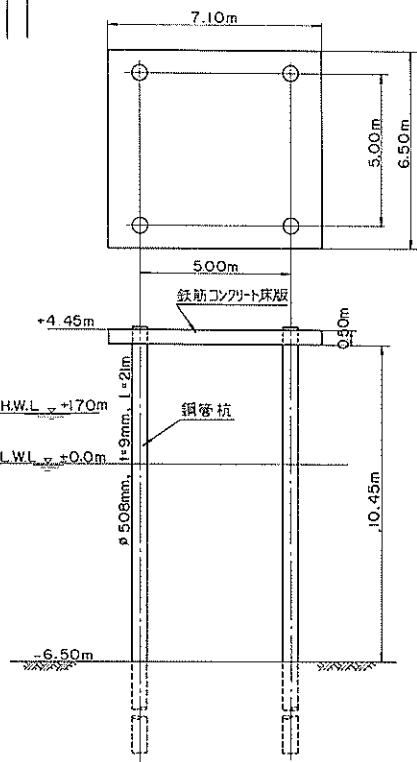
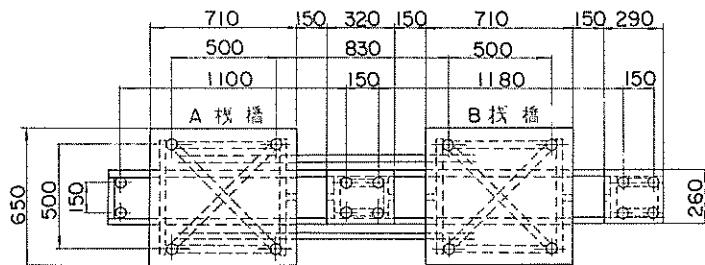


図-2 模型 橋

平面図



側面図

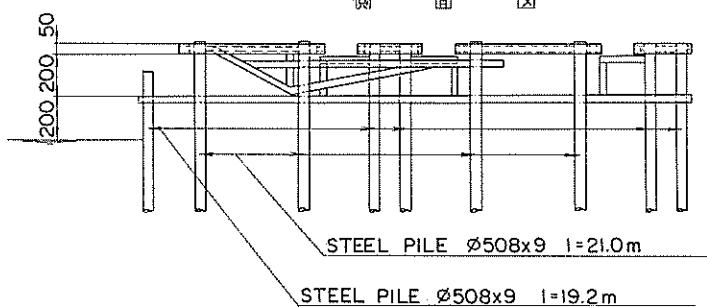


図-3 模型橋と測定足場

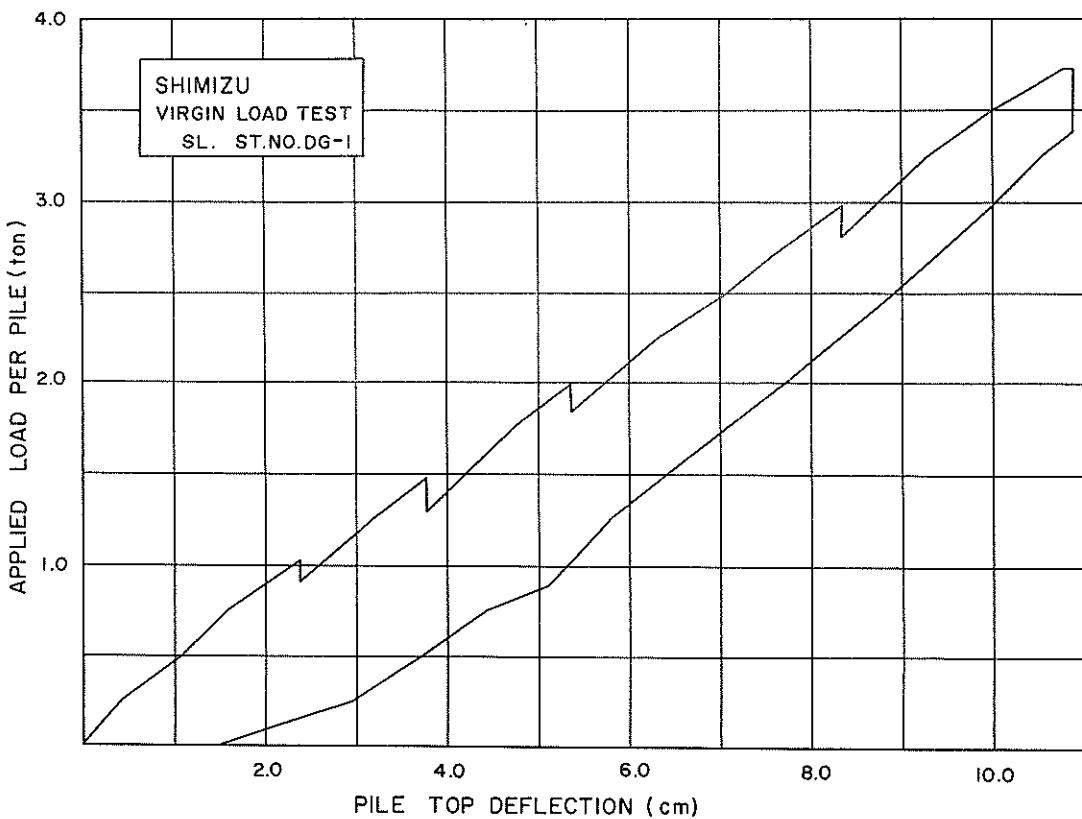


図-4 静荷重試験

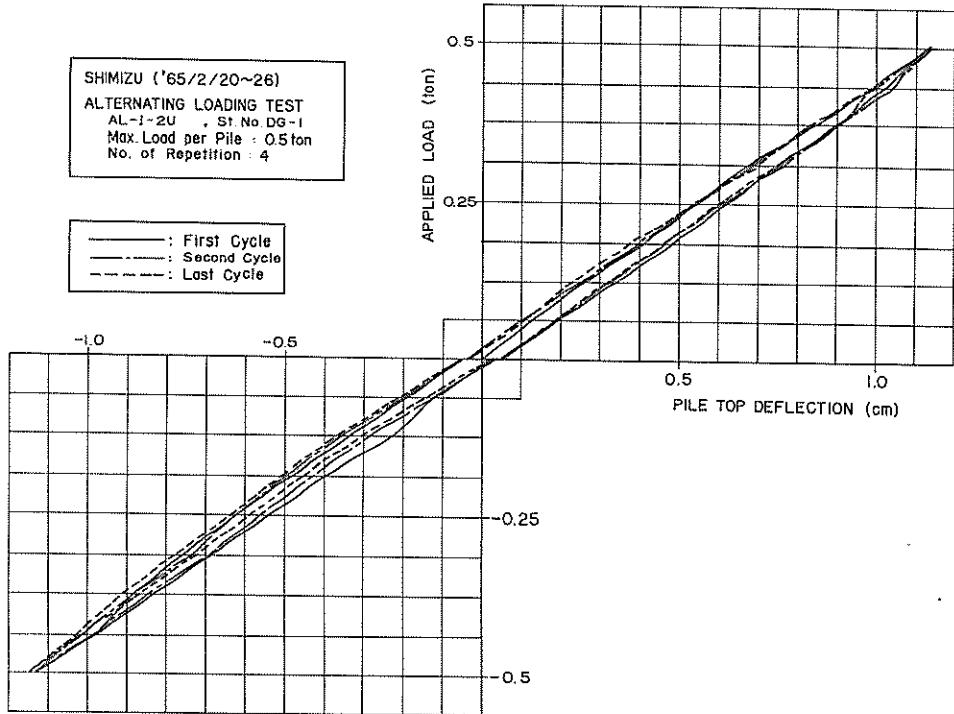


図-5-1 交番荷重試験 I , 2 U

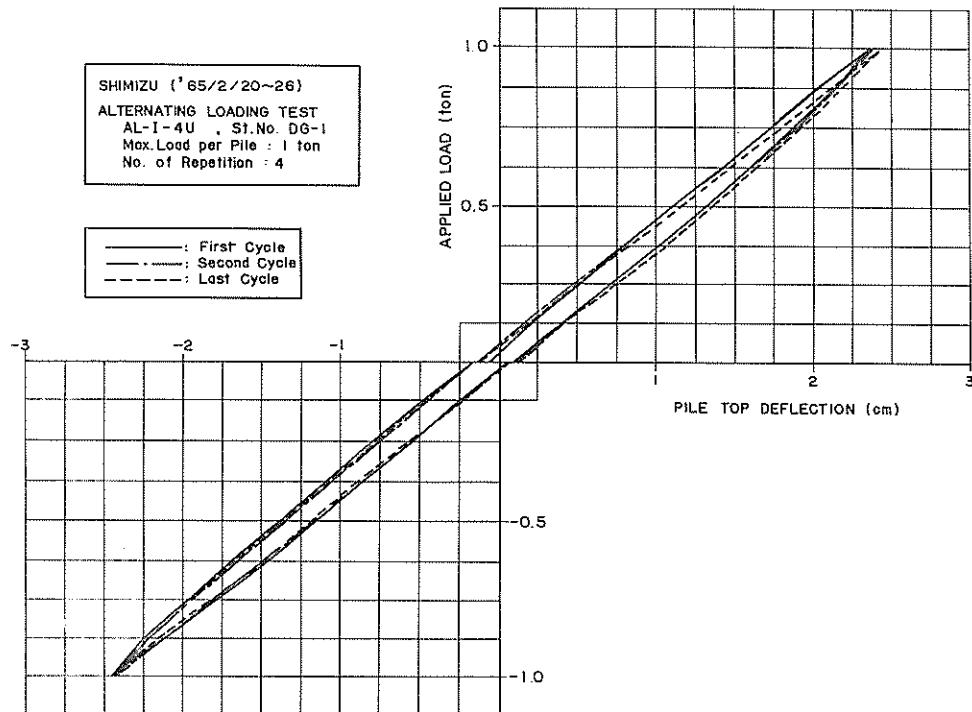


図-5-2 交番荷重試験 I , 4 U

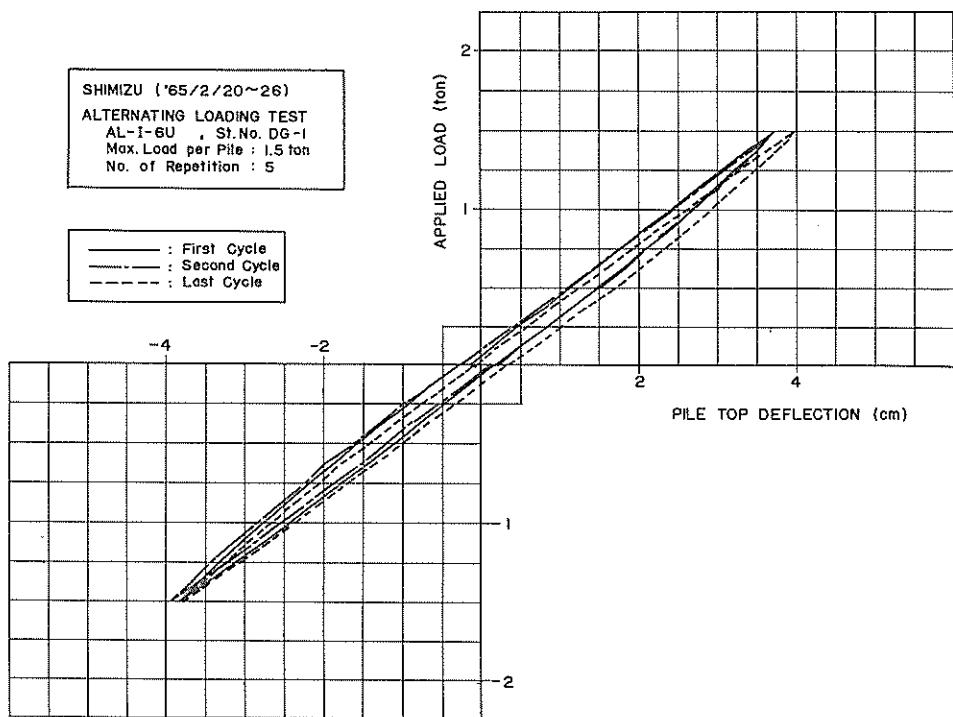


図-5-3 交番荷重試験 I , 6 U

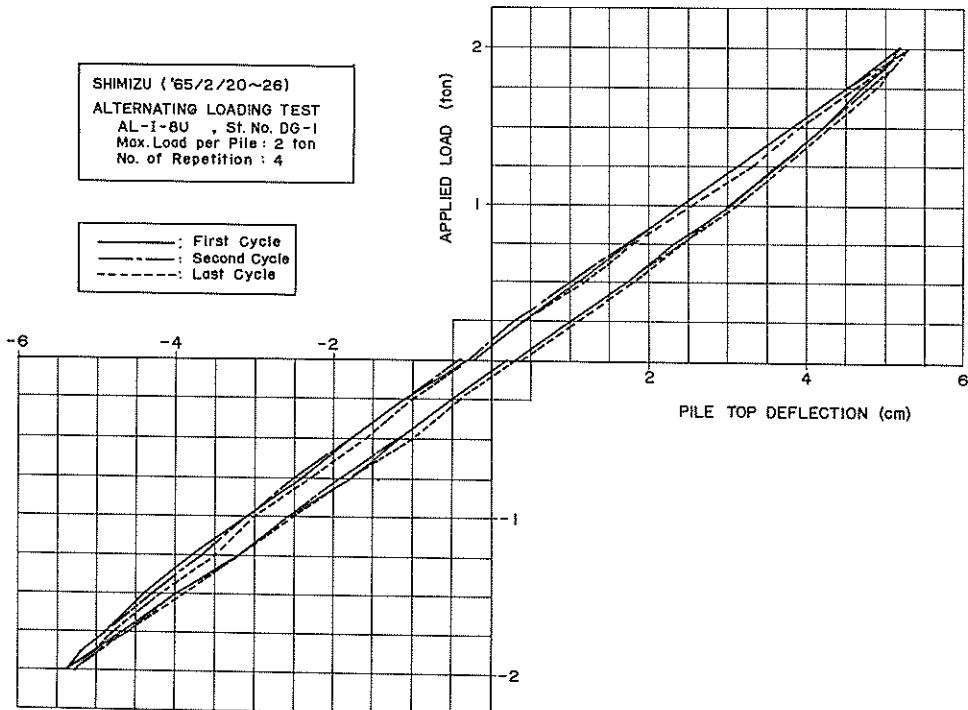


図-5-4 交番荷重試験 I , 8 U

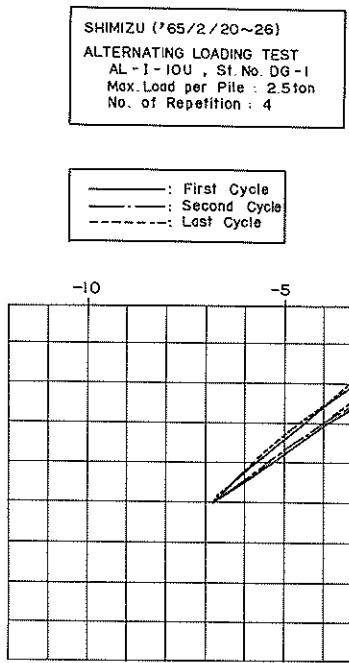


図-5-5 交番荷重試験 I , 10 U

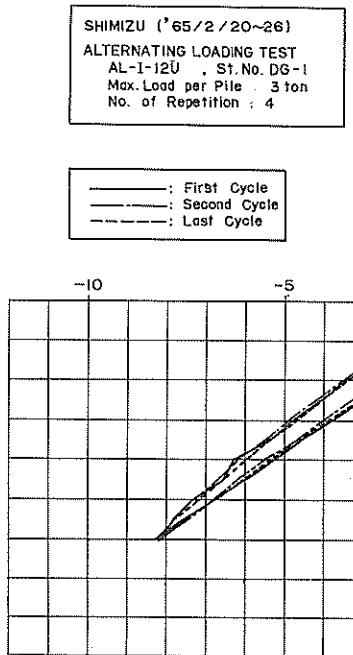


図-5-6 交番荷重試験 I , 12 U

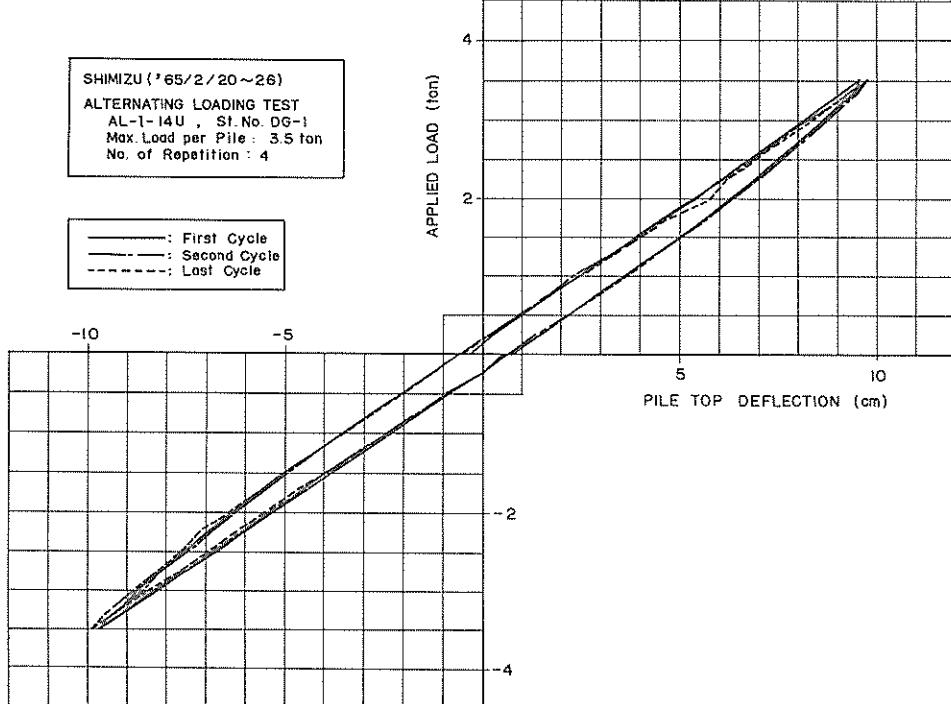


図-5-7 交番荷重試験 I , 14 U

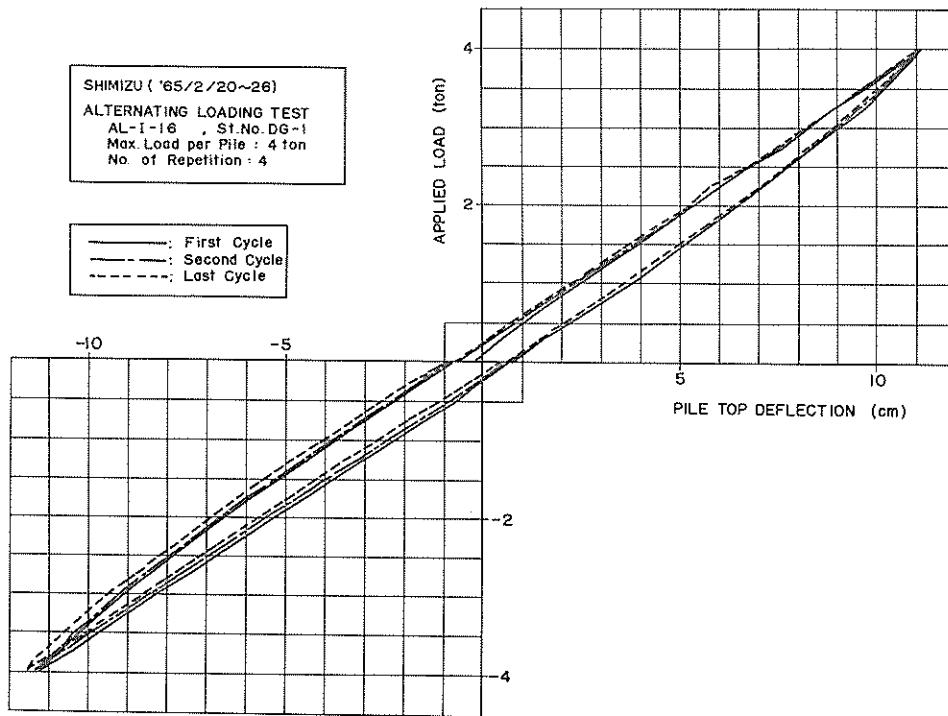


図-5-8 交番荷重試験 I , 16

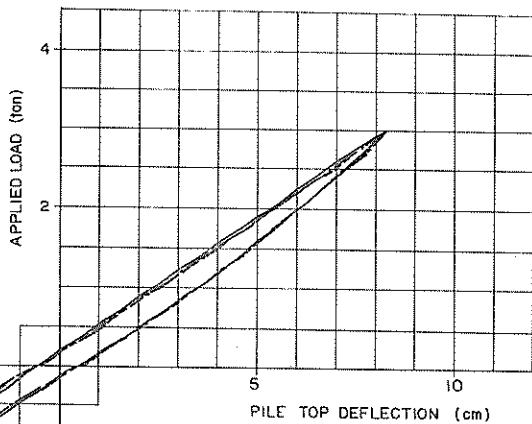
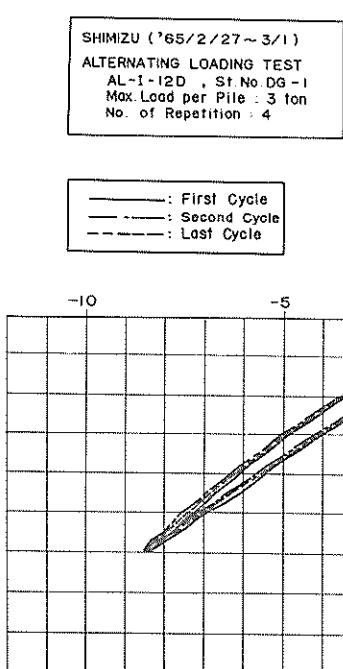


図-5-9 交番荷重試験 I , 12 D

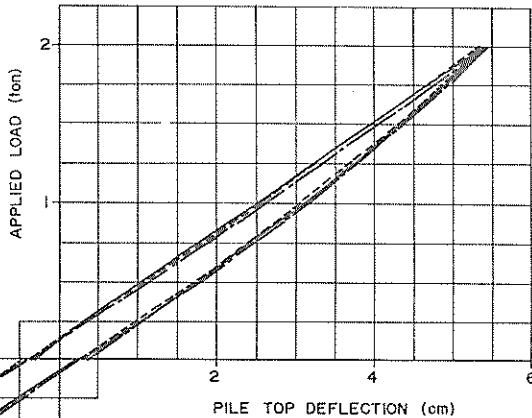
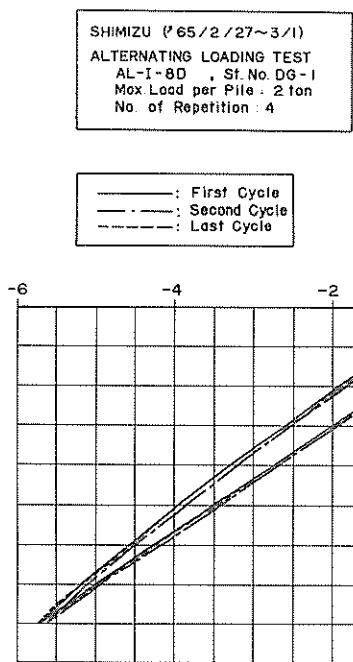


図-5-10 交番荷重試験 I , 8 D

SHIMIZU ('65/2/27~3/1)
ALTERNATING LOADING TEST
AL-I-4D , St. No. DG-1
Max.Load per Pile : 1ton
No. of Repetition : 2

— : First Cycle
— : Second Cycle
--- : Last Cycle

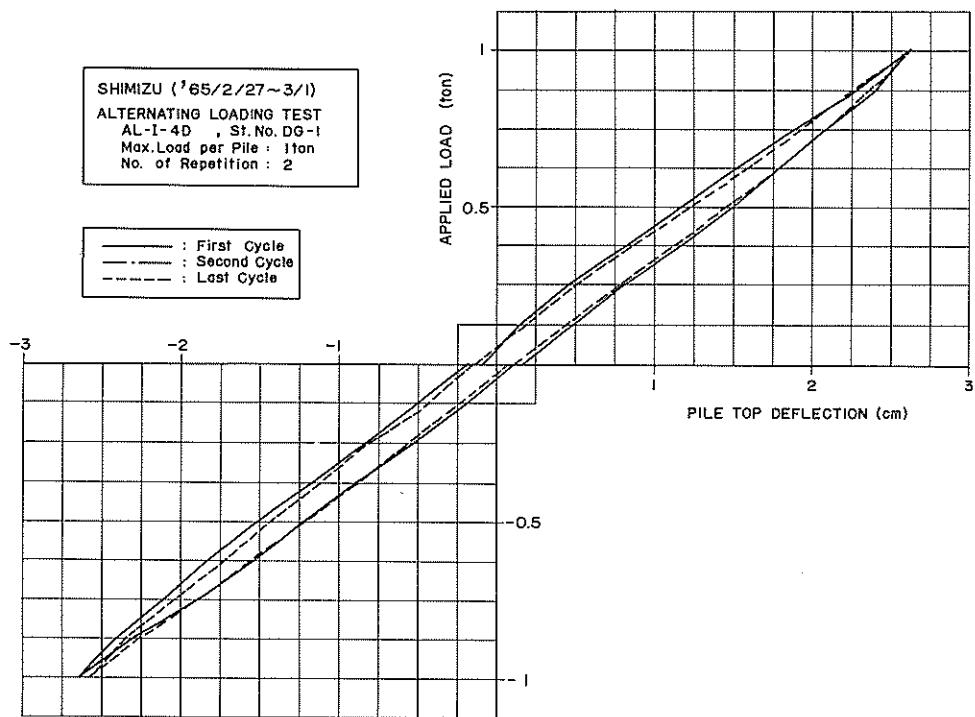


図-5-11 交番荷重試験 I , 4D

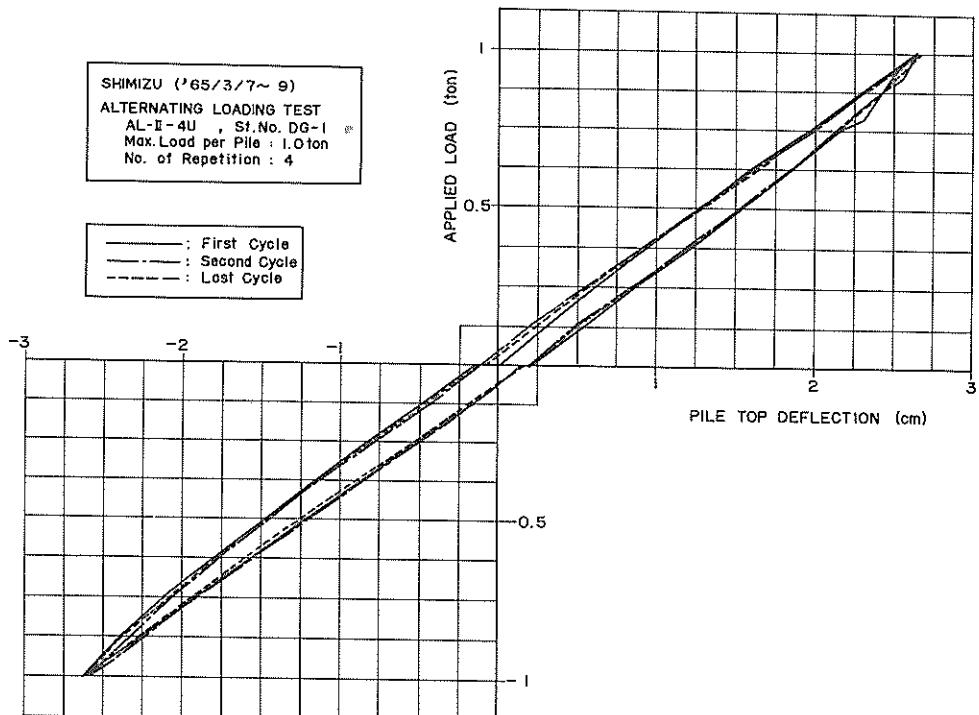


図-6-1 交番荷重試験 II , 4U

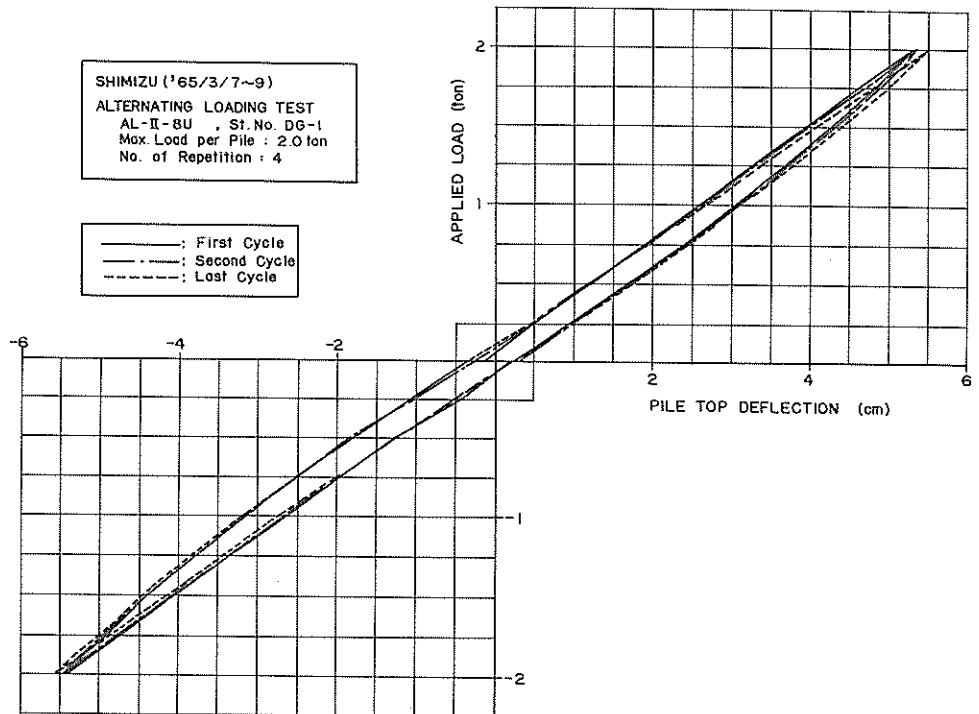


図-6-2 交番荷重試験 II , 8U

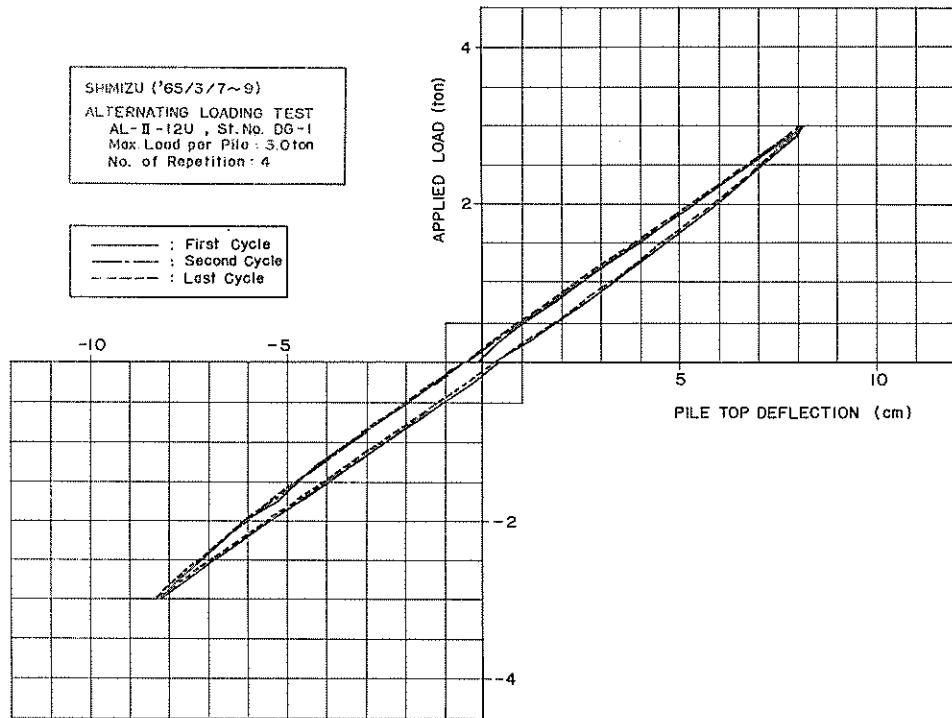


図-6-3 交番荷重試験 II , 12 U

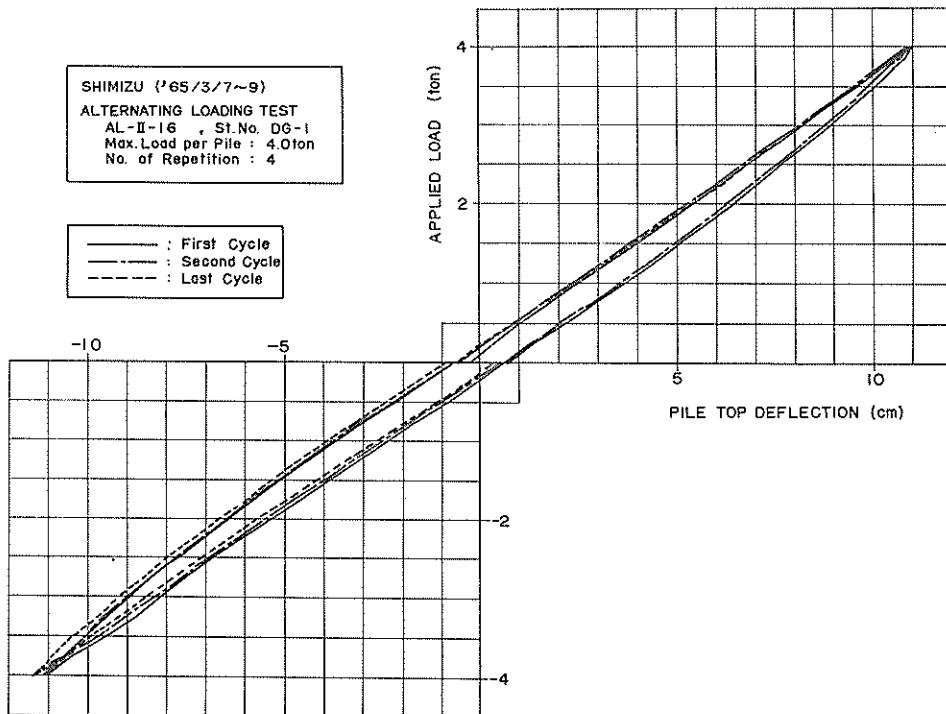


図-6-4 交番荷重試験 II , 16

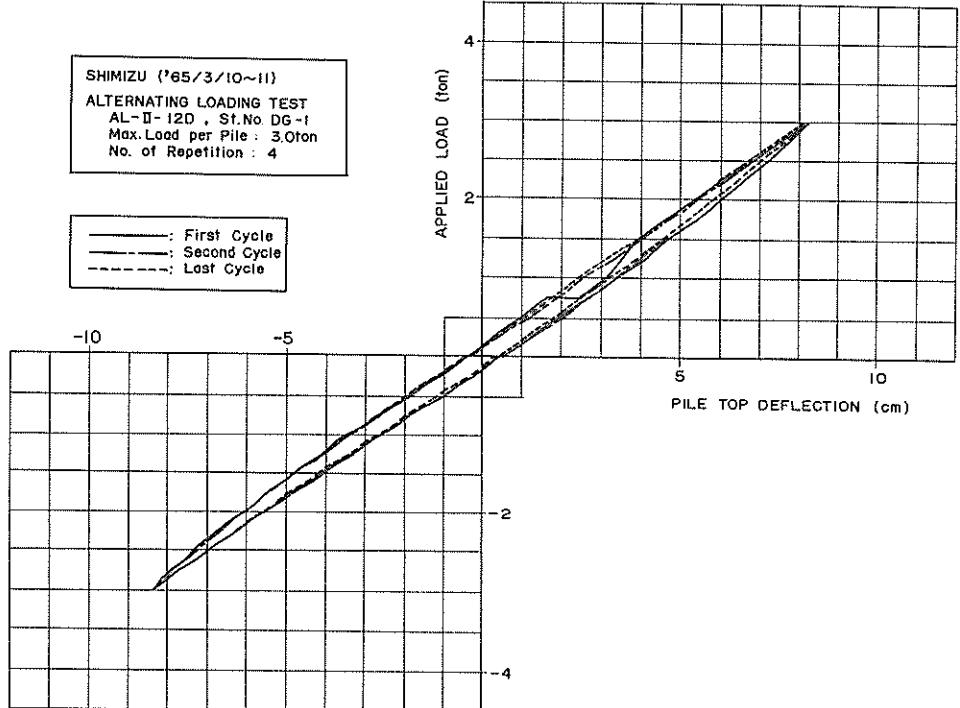


図-6-5 交番荷重試験 II , 12 D

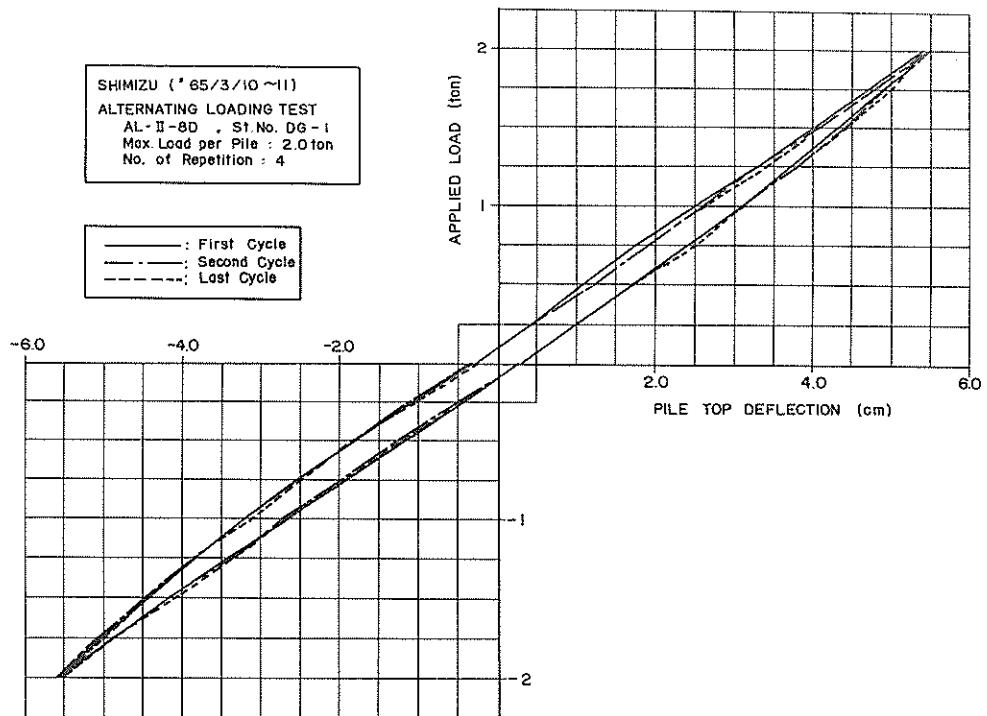


図-6-6 交番荷重試験 II , 8 D

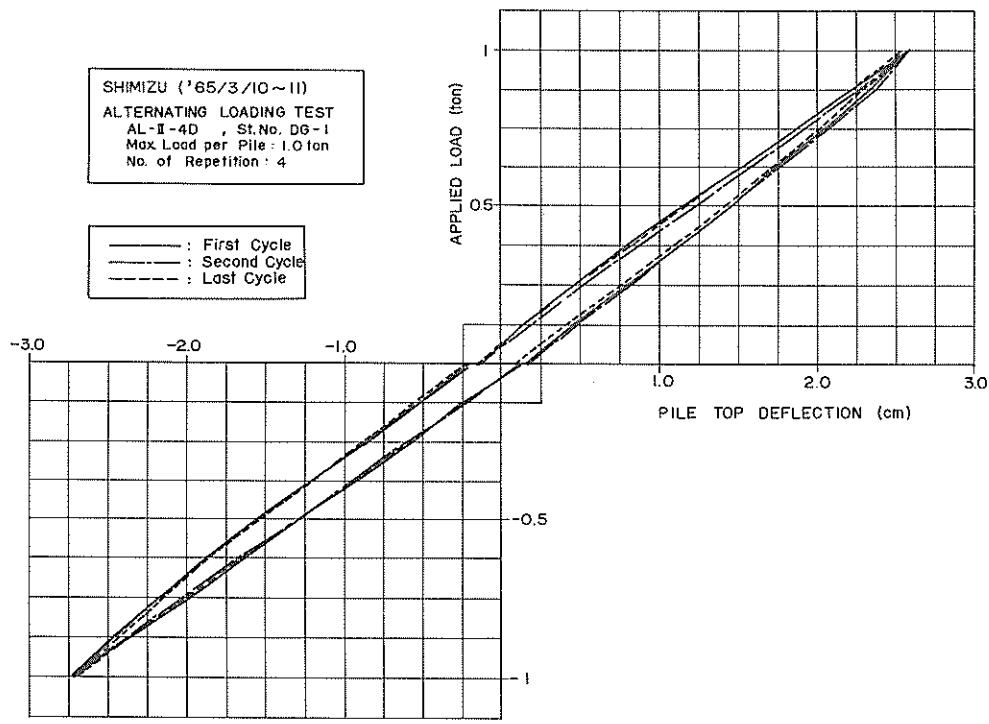


図-6-7 交番荷重試験 II, 4D

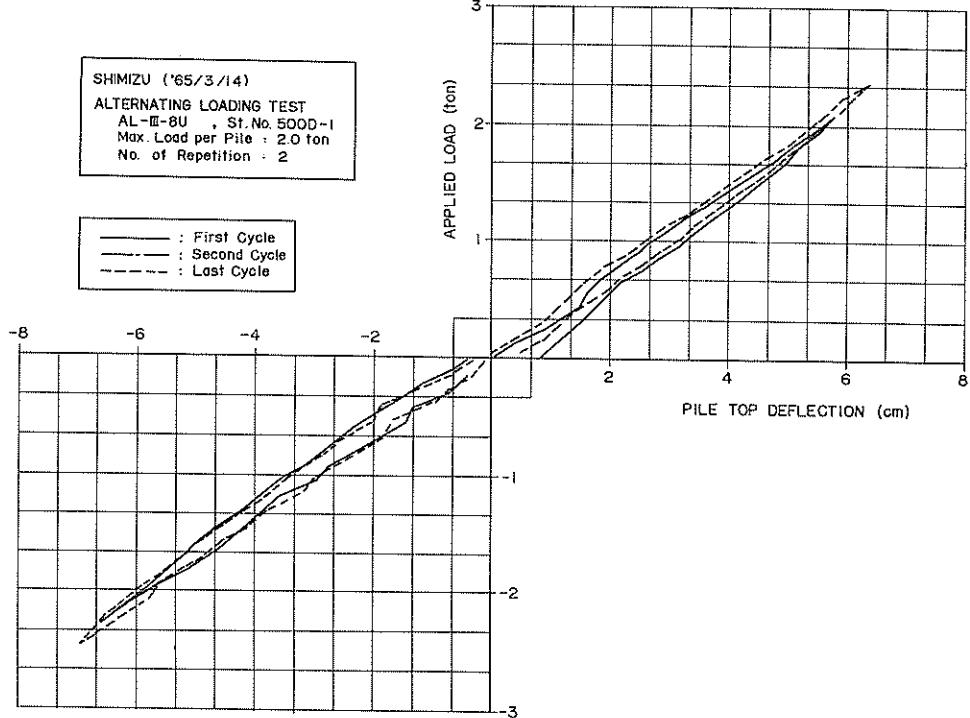


図-7-1 交番荷重試験 III, 8U

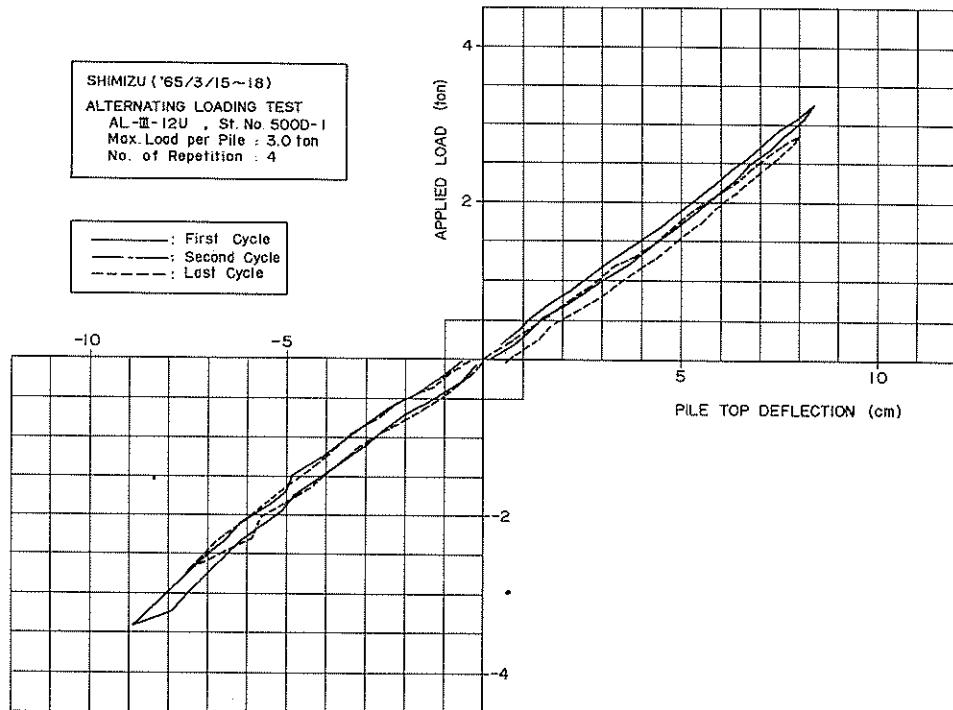


図-7-2 交番荷重試験 III, 12U

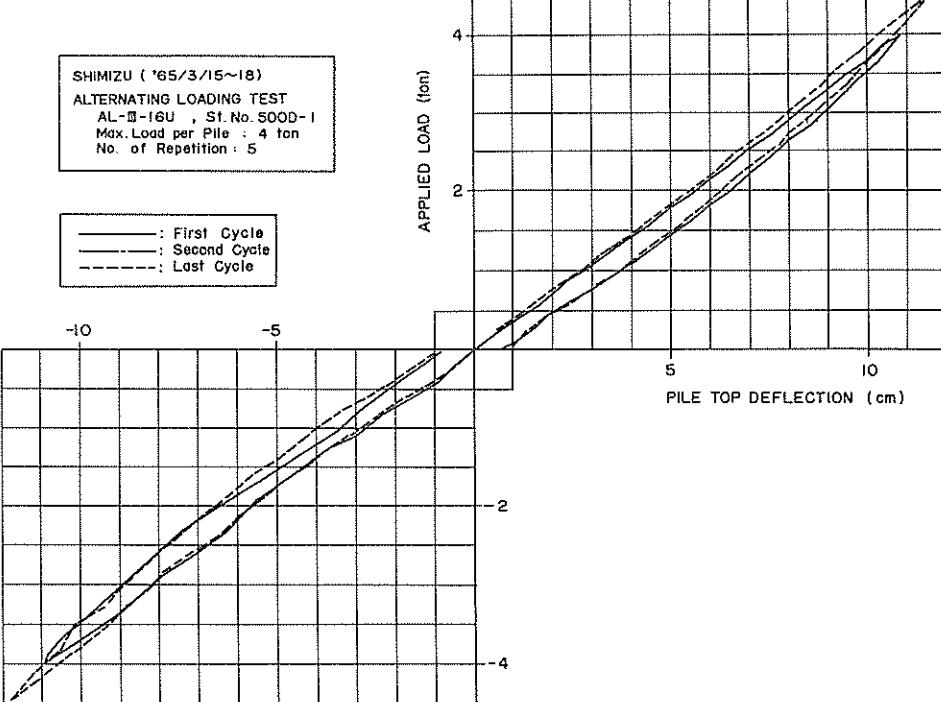


図-7-3 交番荷重試験 III, 16 U

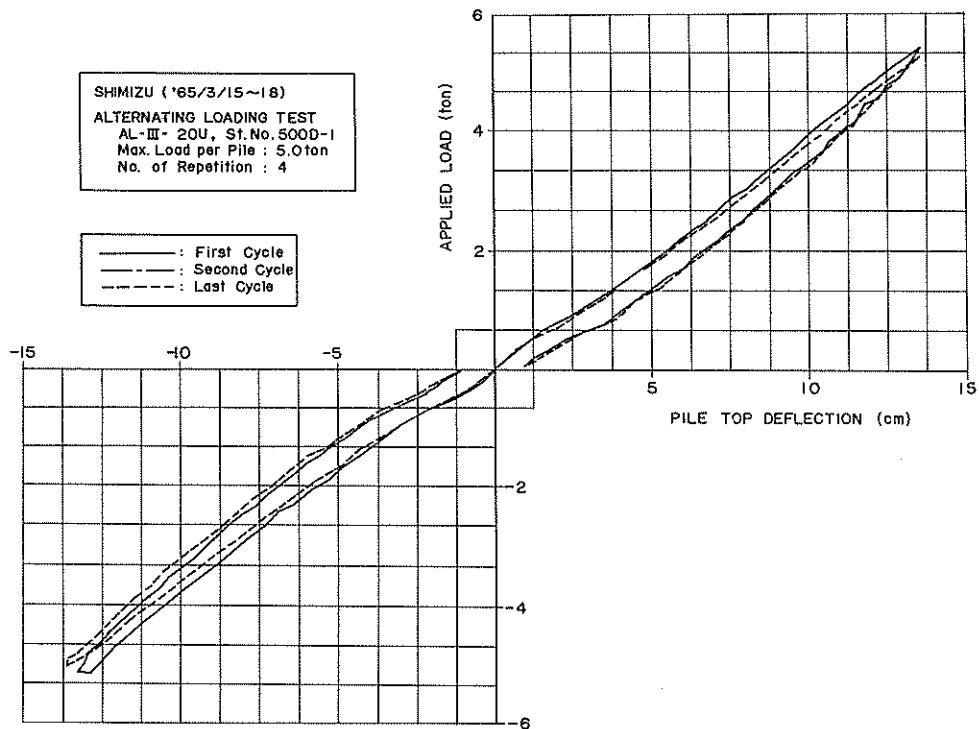


図-7-4 交番荷重試験 III, 20 U

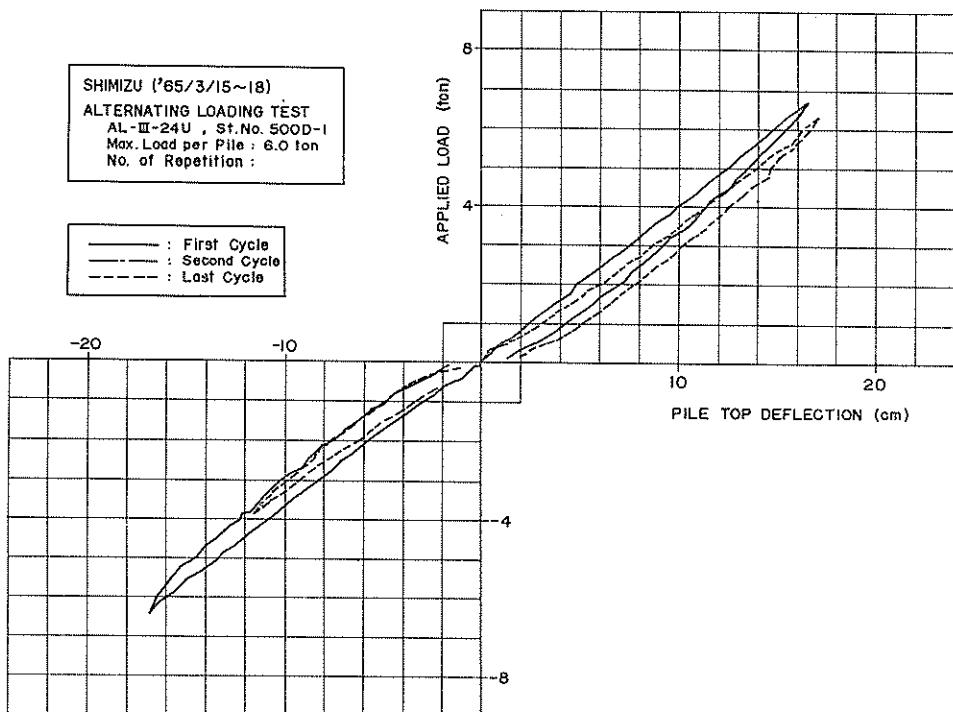


図-7-5 交番荷重試験 III , 24 U

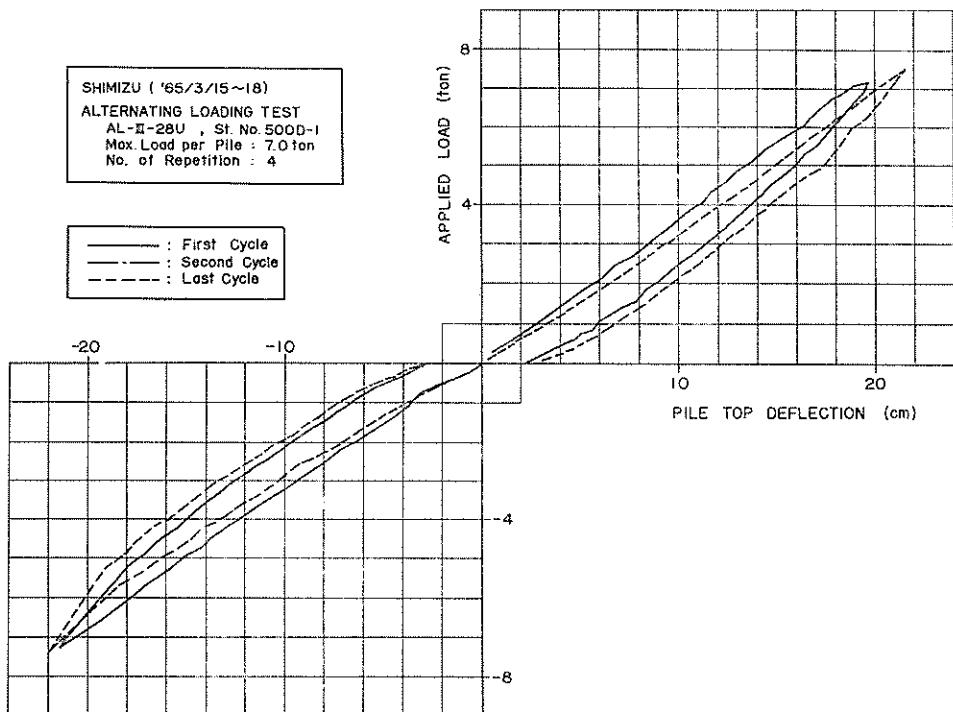


図-7-6 交番荷重試験 III , 28 U

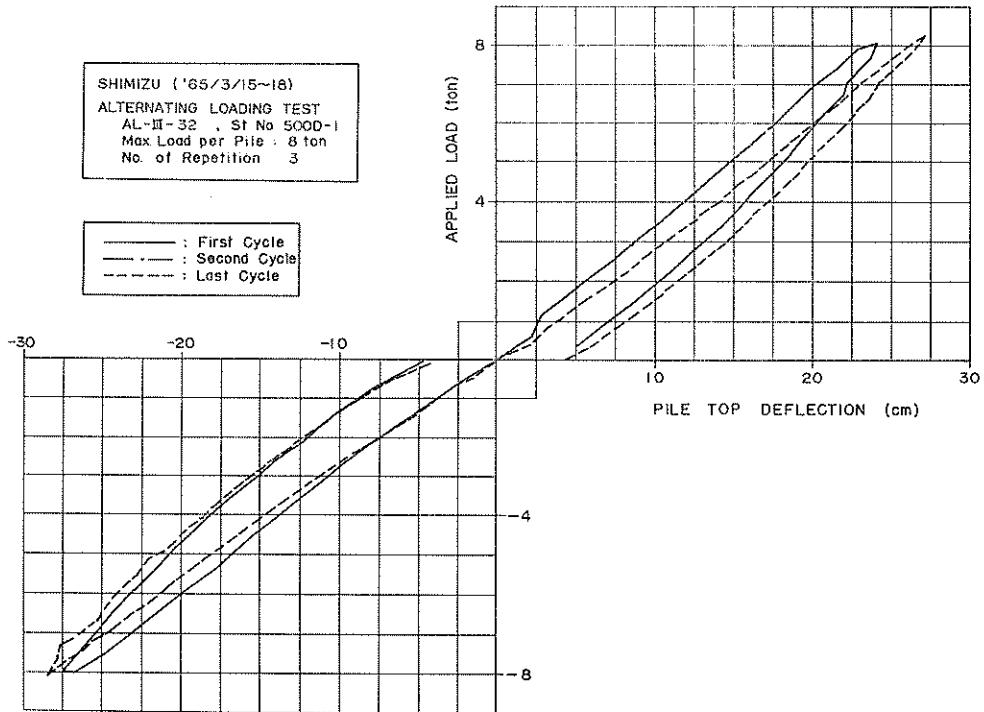


図-7-7 交番荷重試験 III, 32

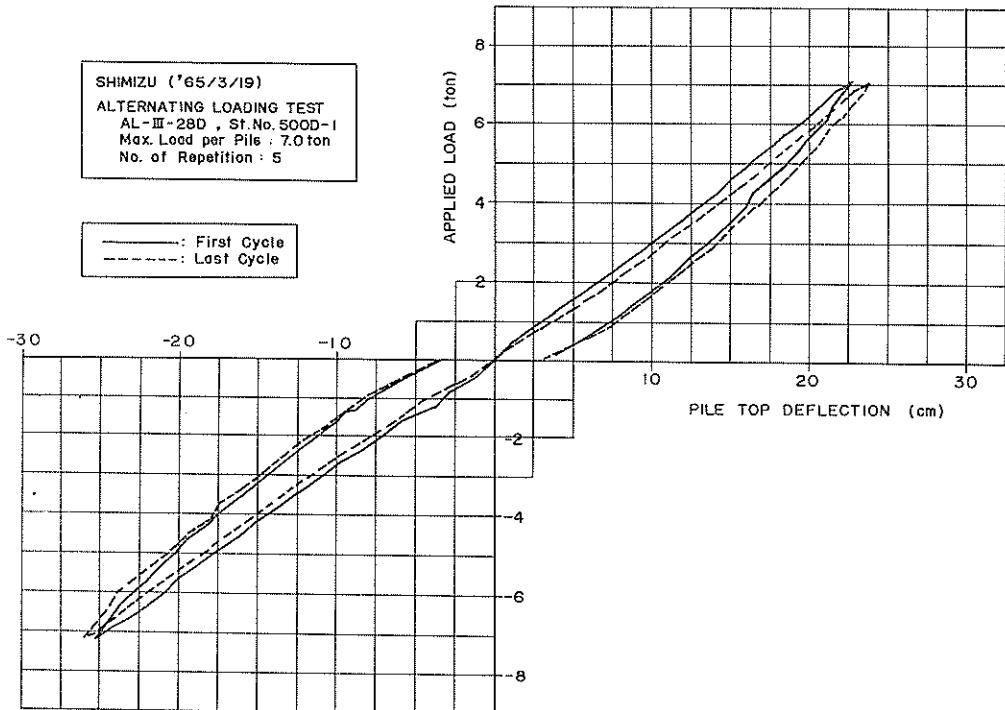


図-7-8 交番荷重試験 III, 28 D

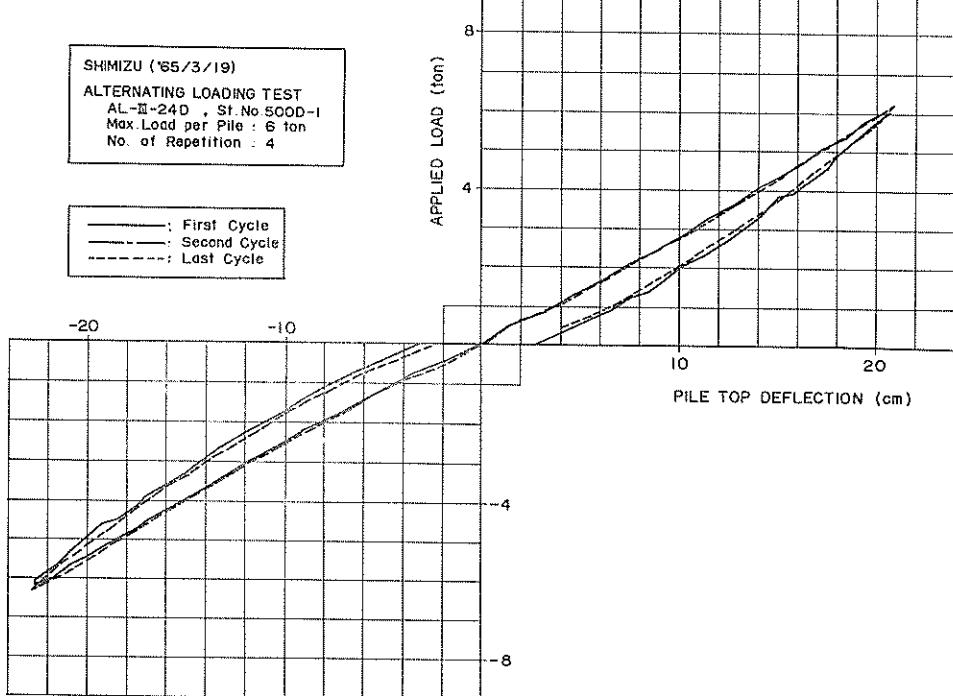


図-7-9 交番荷重試験 III , 24 D

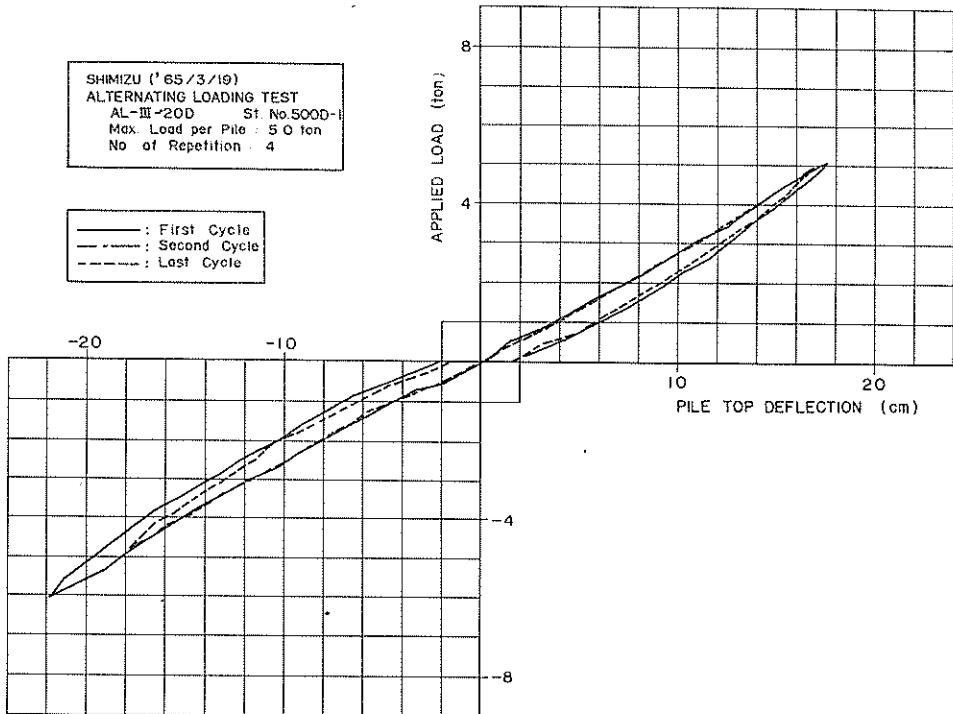


図-7-10 交番荷重試験 III , 20 D

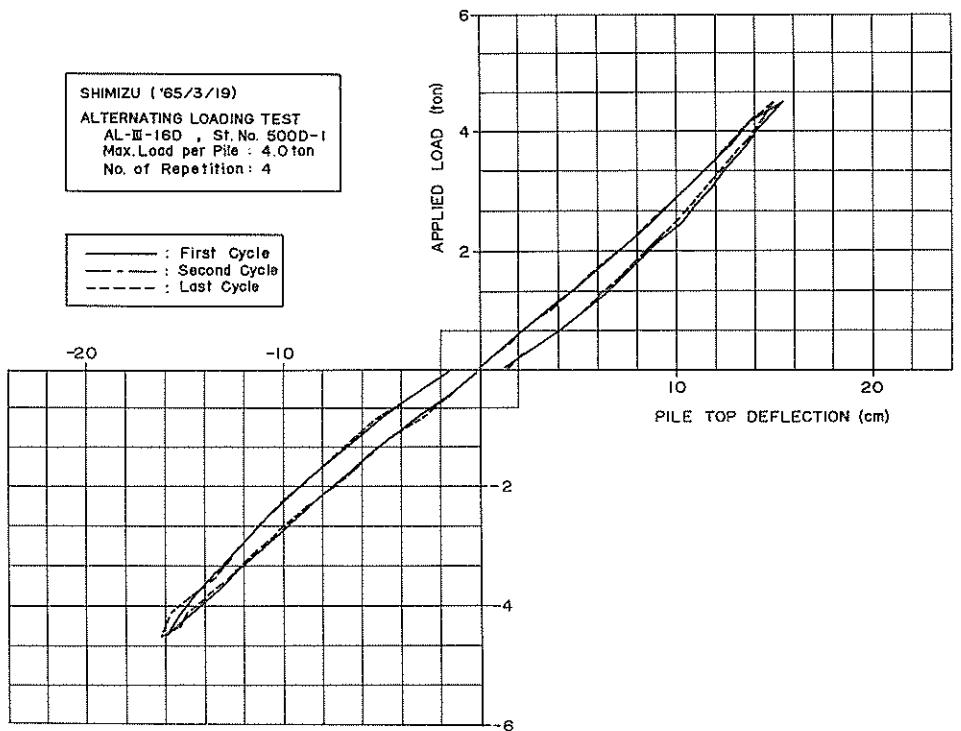


図-7-11 交番荷重試験 III, 16D

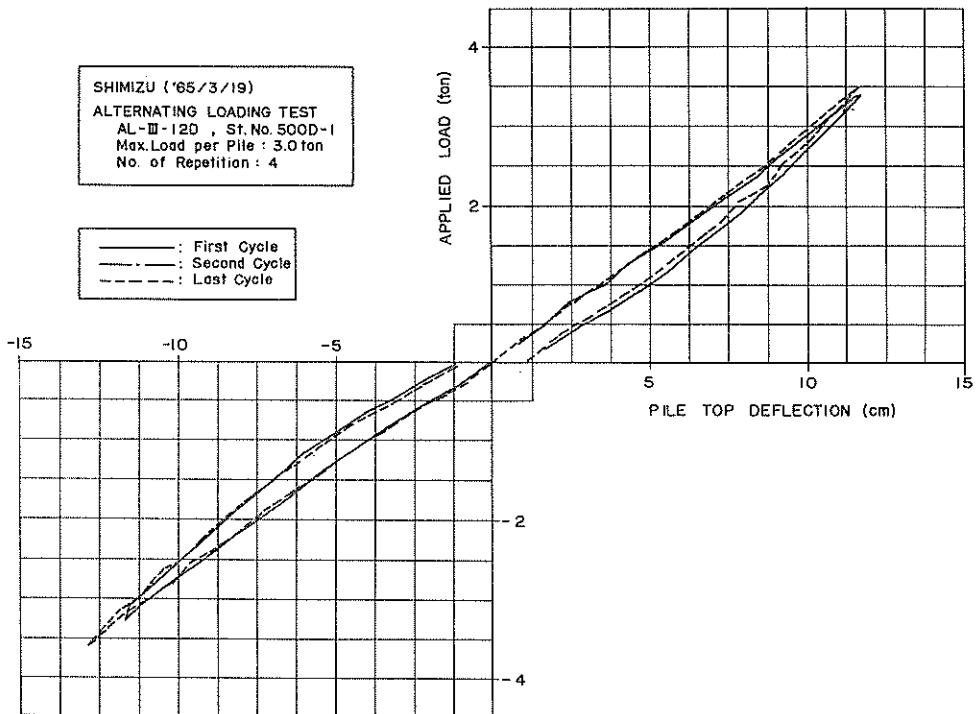


図-7-12 交番荷重試験 III, 12D

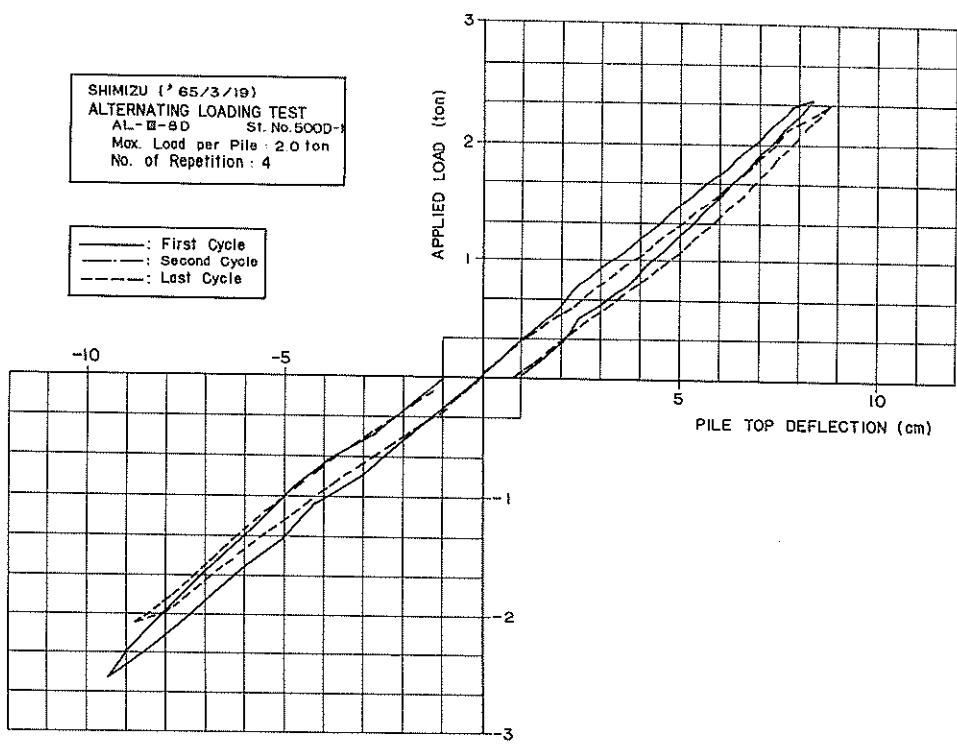


図-7-13 交番荷重試験 III, 8D

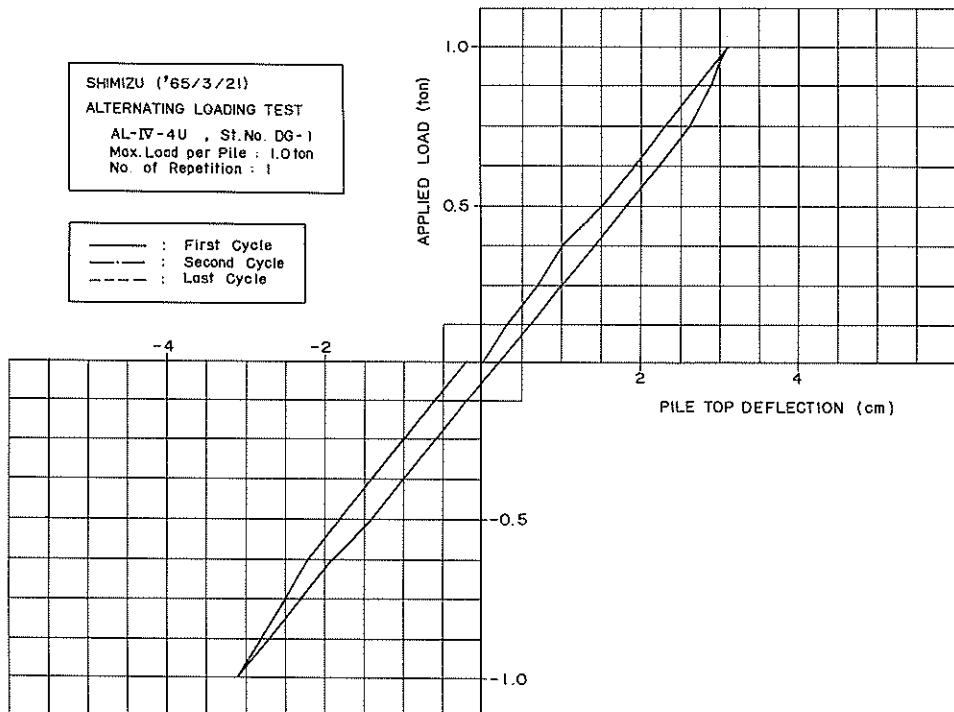


図-8-1 交番荷重試験 N, 4 U

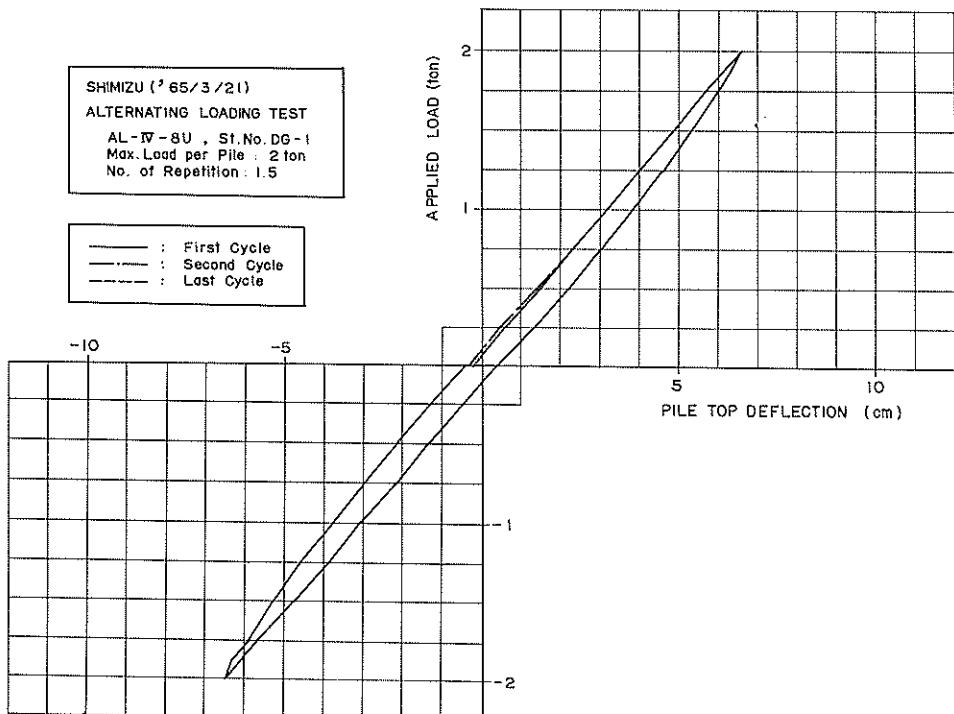


図-8-2 交番荷重試験 N, 8 U

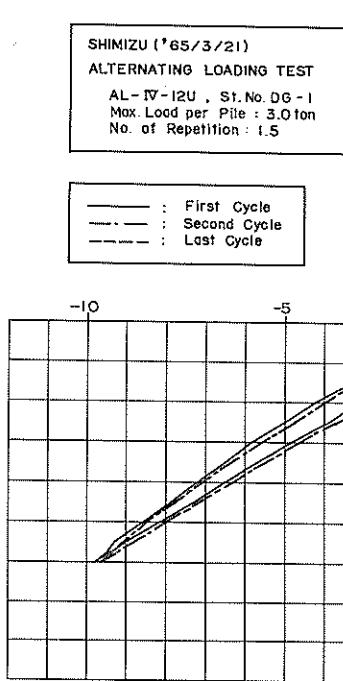


図-8-3 交番荷重試験 IV. 12 U

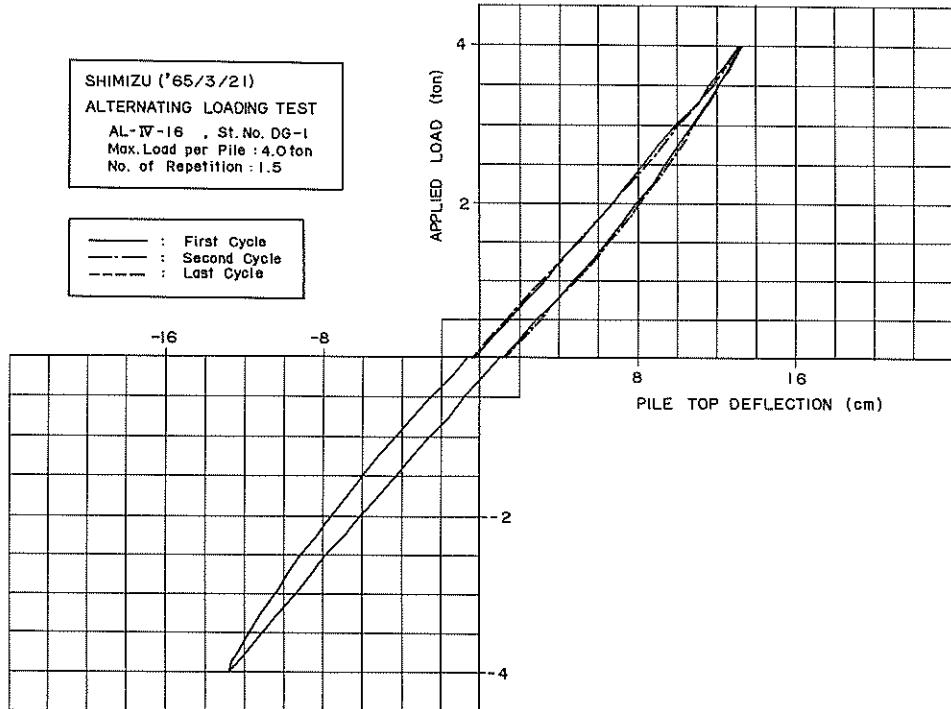


図-8-4 交番荷重試験 IV. 16

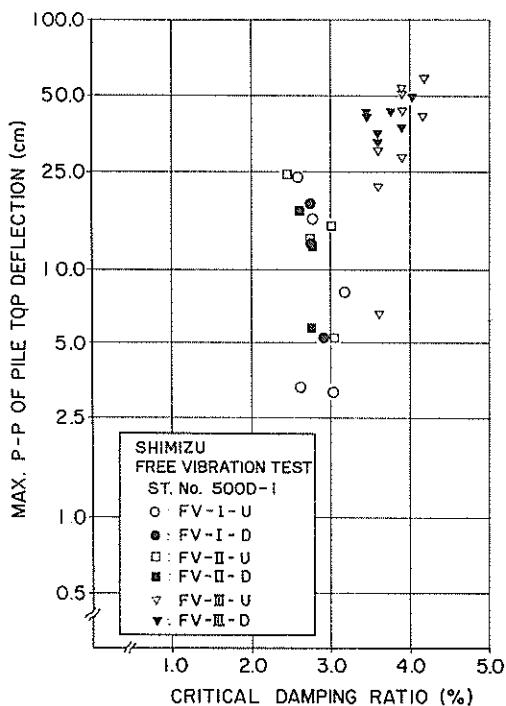


図-9 臨界減衰比一倍振巾、自由振動試験

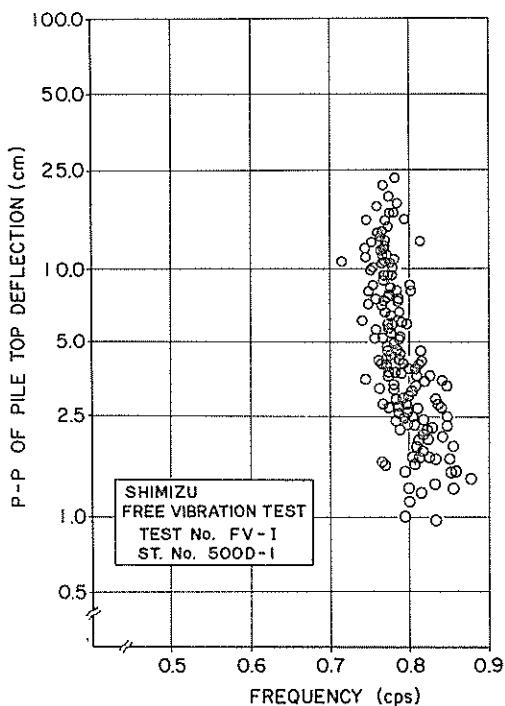


図-10 固有振動数一倍振巾、自由振動試験

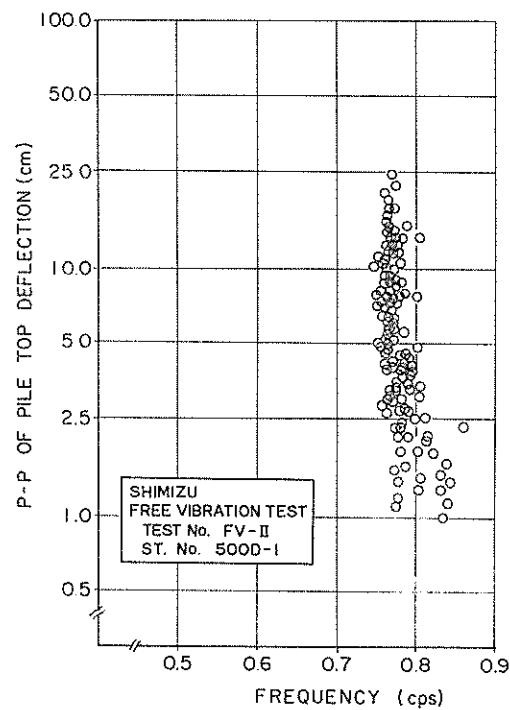


図-11 固有振動数一倍振巾、自由振動試験 II

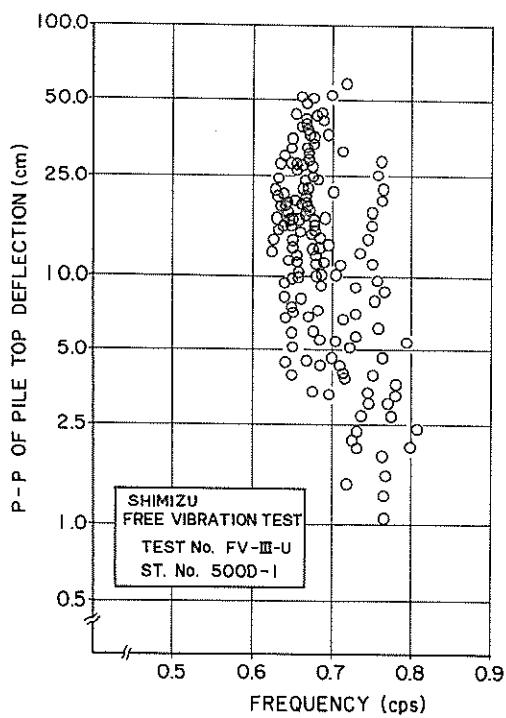


図-12-1

固有振動数一倍振巾、自由振動試験 III(前半)

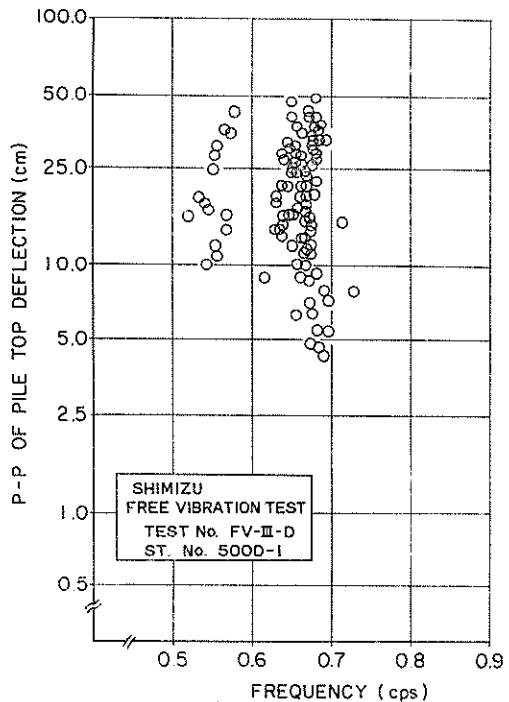


図-12-2

固有振動数一倍振巾、自由振動試験 III(後半)

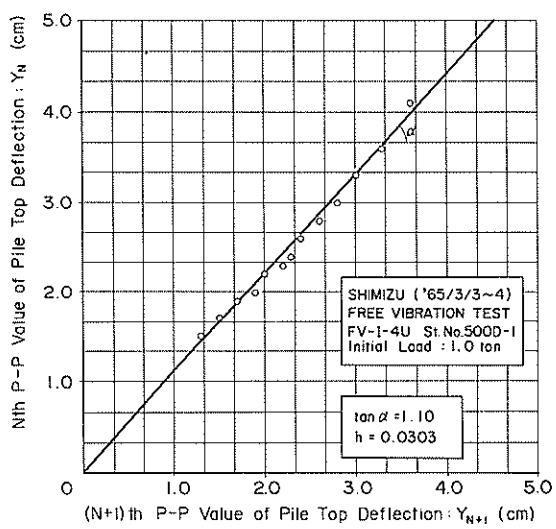


図-13-1 自由振動試験 I , 4 U

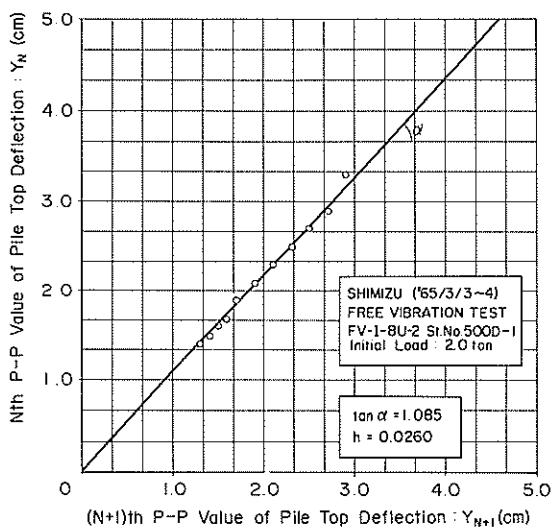


図-13-3 自由振動試験 I , 8 U-2

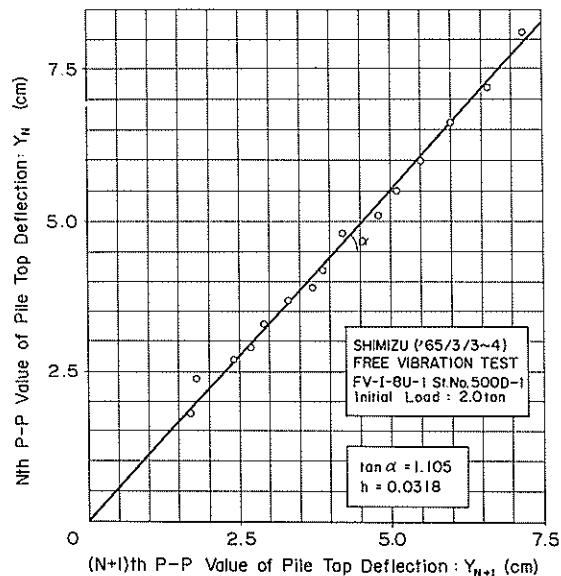


図-13-2 自由振動試験 I , 8 U-1

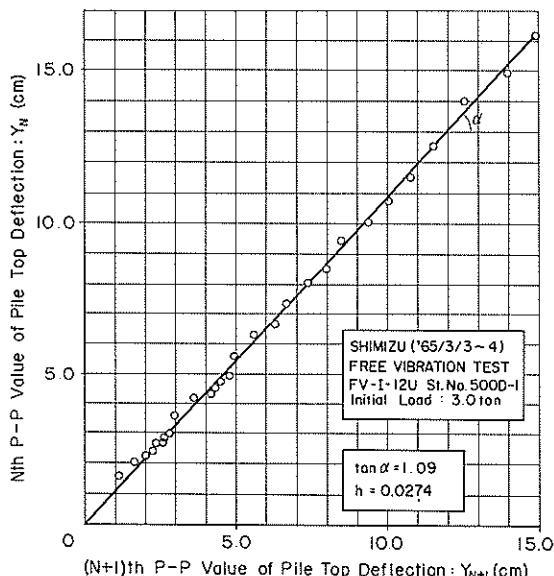


図-13-4 自由振動試験 I , 12 U

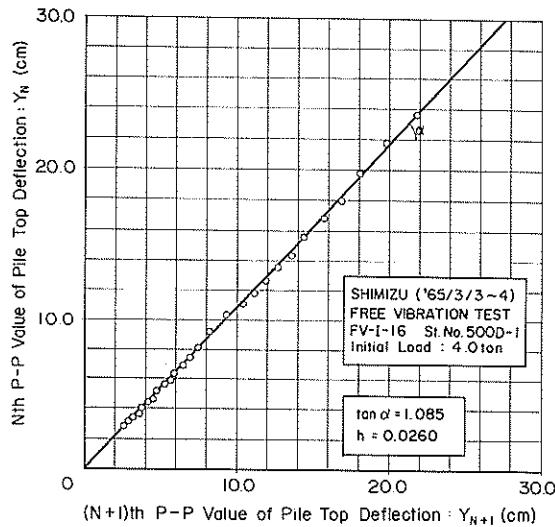


図-13-5 自由振動試験 I , 16

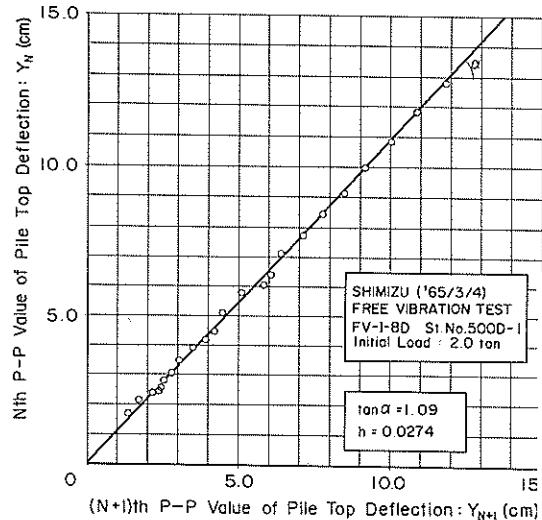


図-13-7 自由振動試験 I , 8 D

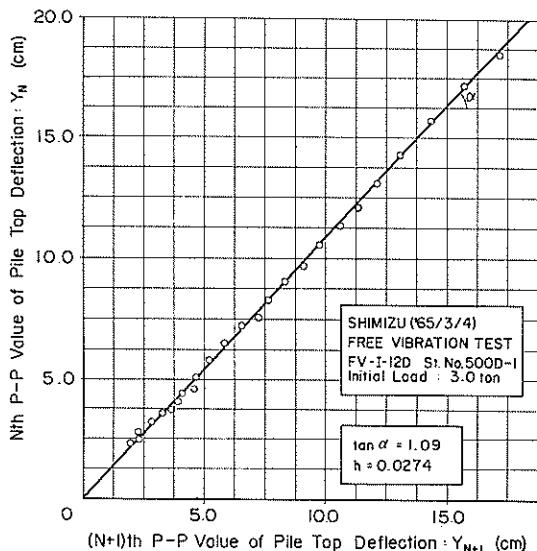


図-13-6 自由振動試験 I , 12 D

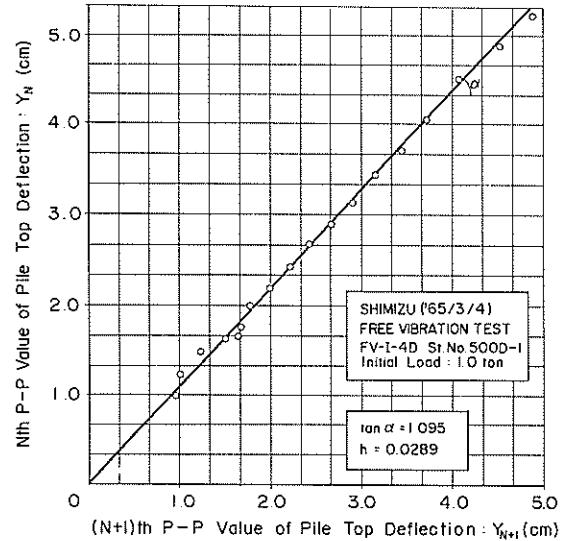


図-13-8 自由振動試験 I , 4 D

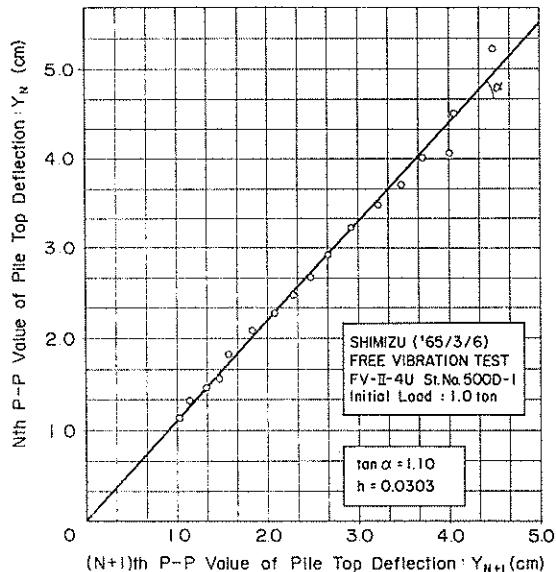


図-14-1 自由振動試験 II, 4 U

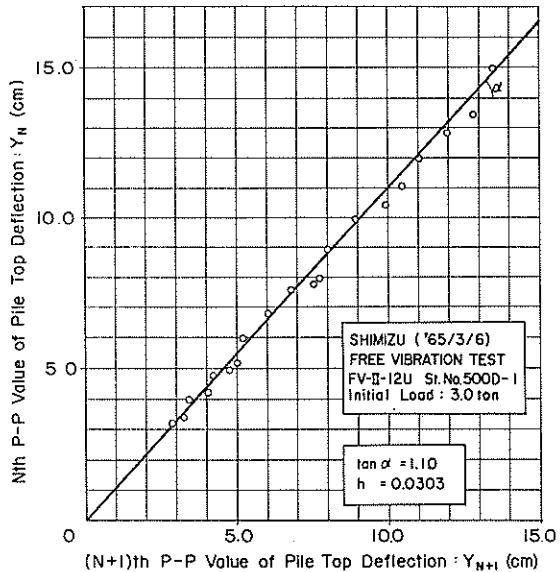


図-14-3 自由振動試験 II, 12 U

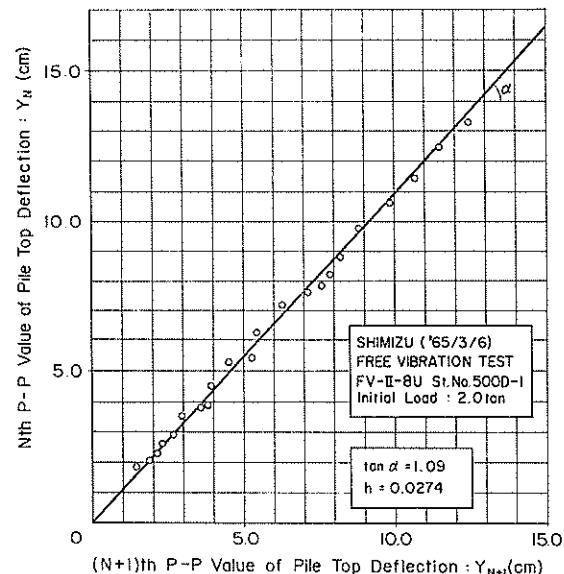


図-14-2 自由振動試験 II, 8 U

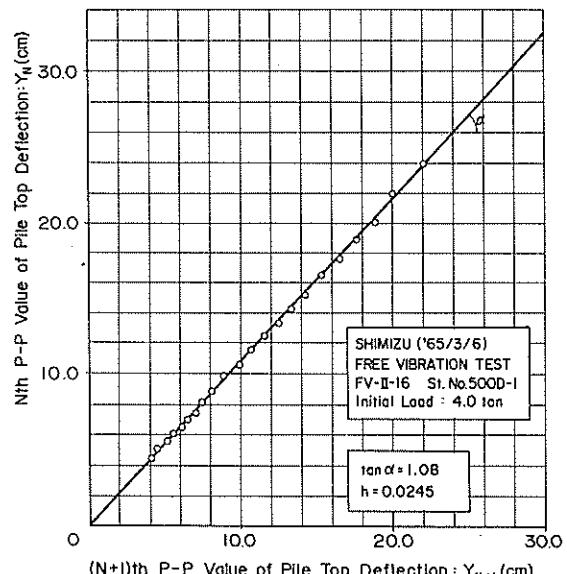


図-14-4 自由振動試験 II, 16

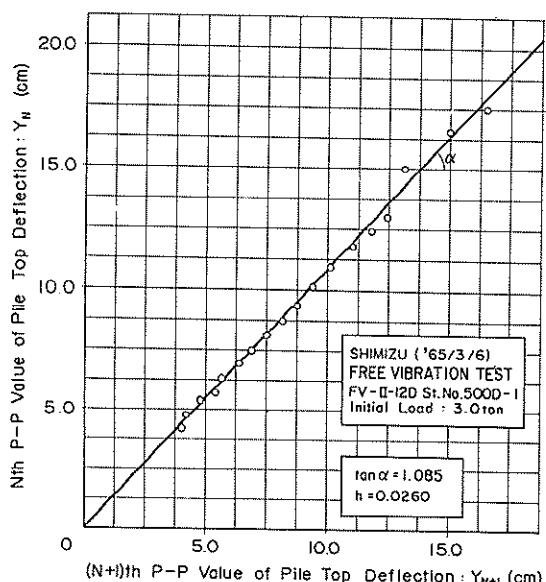


図-14-5 自由振動試験 II, 12 D

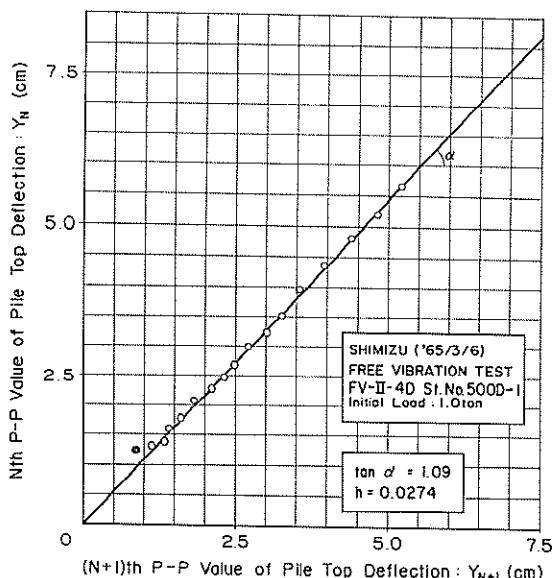


図-14-7 自由振動試験 II, 4 D

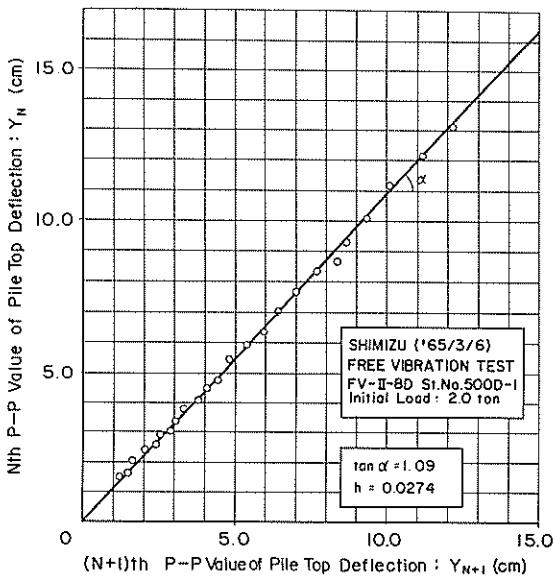


図-14-6 自由振動試験 II, 8 D

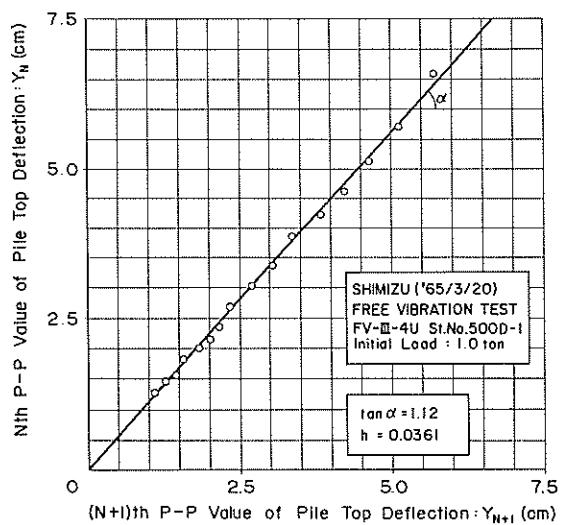


図-15-1 自由振動試験 III, 4U

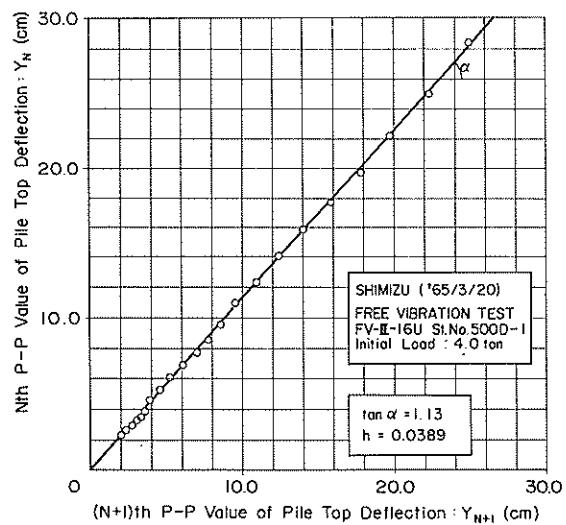


図-15-3 自由振動試験 III, 16U

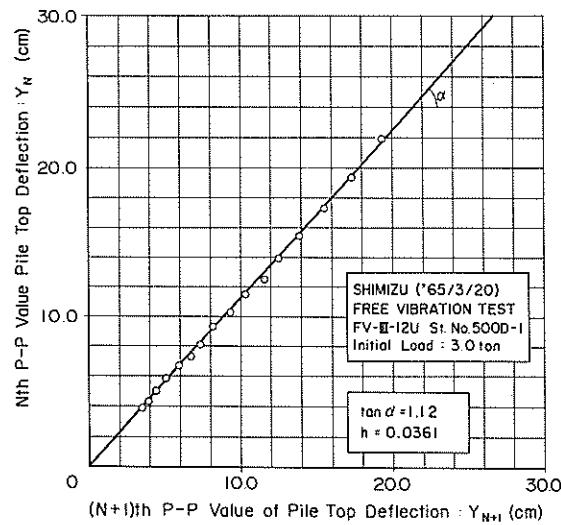


図-15-2 自由振動試験 III, 12U

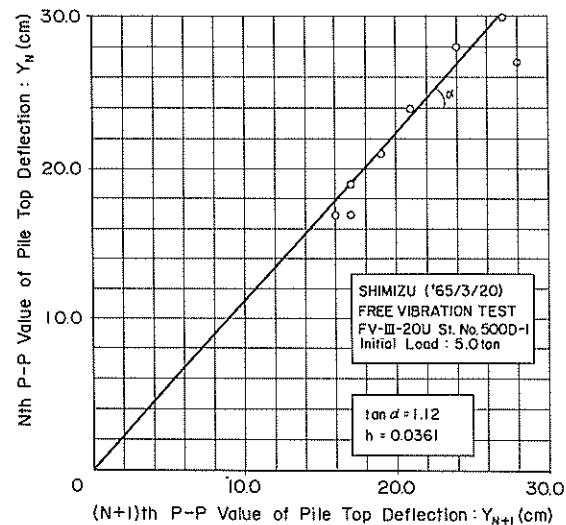


図-15-4 自由振動試験 III, 20U

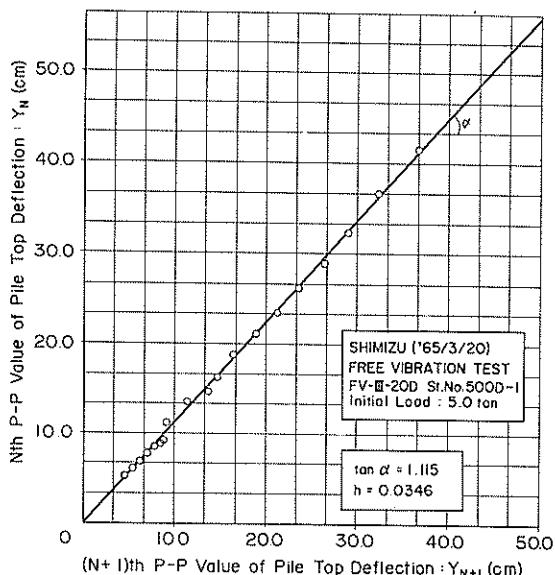


図-15-5 自由振動試験 III, 22 U

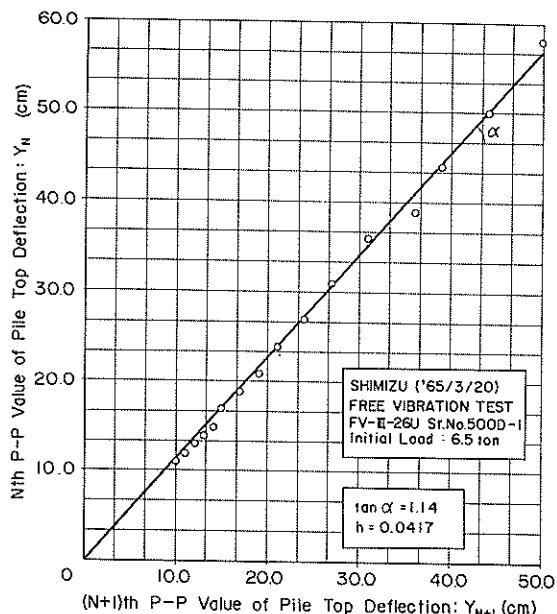


図-15-7 自由振動試験 III, 26 U

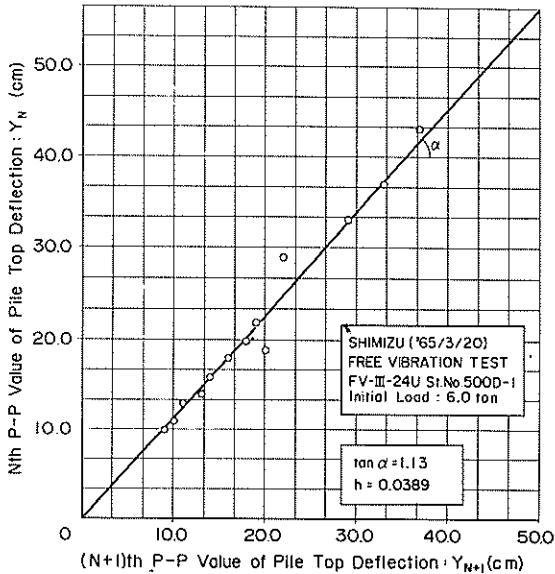


図-15-6 自由振動試験 III, 24 U

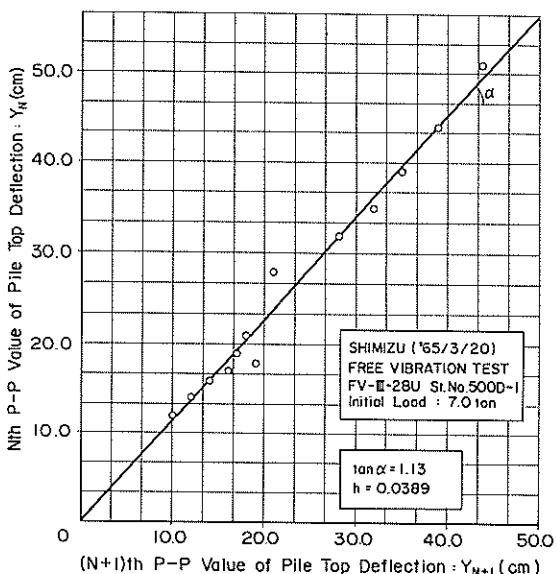


図-15-8 自由振動試験 III, 28 U

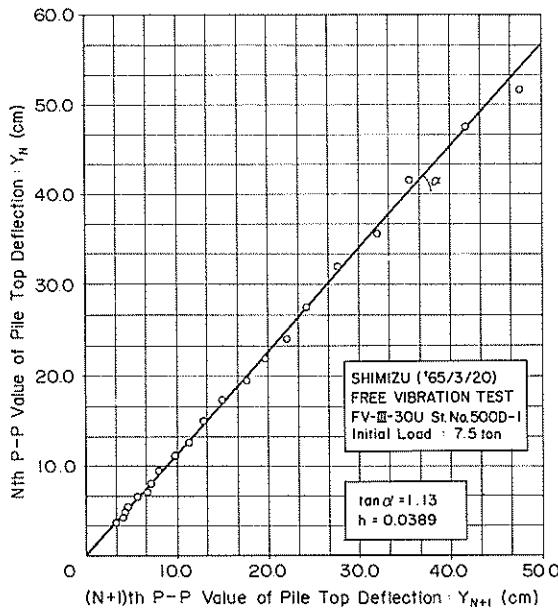


図-15-9 自由振動試験 III, 30 U

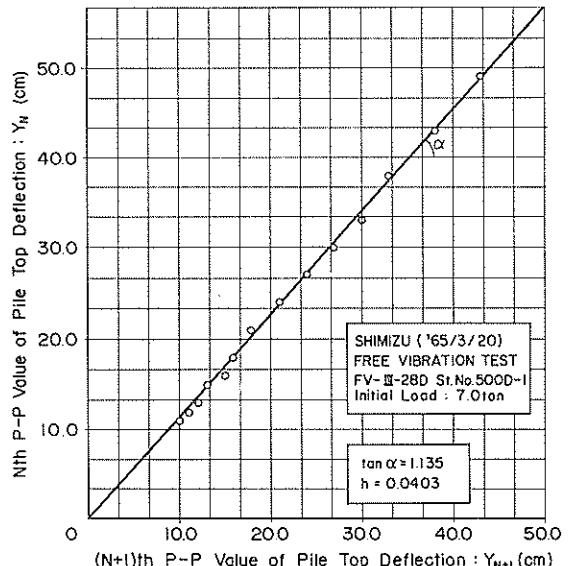


図-15-11 自由振動試験 III, 28 D

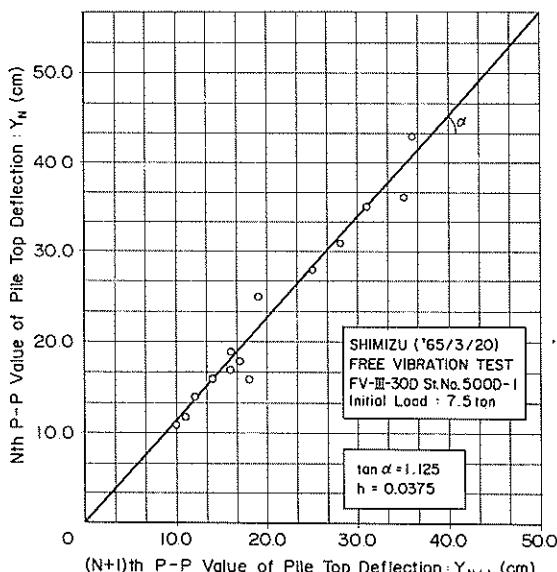


図-15-10 自由振動試験 III, 30 D

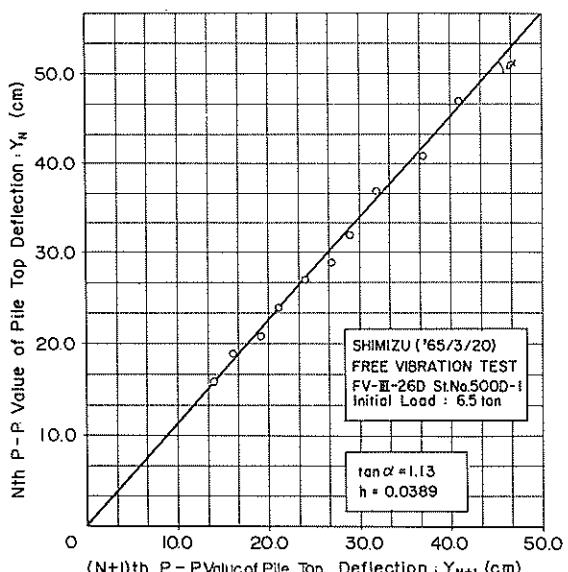


図-15-12 自由振動試験 III, 26 D

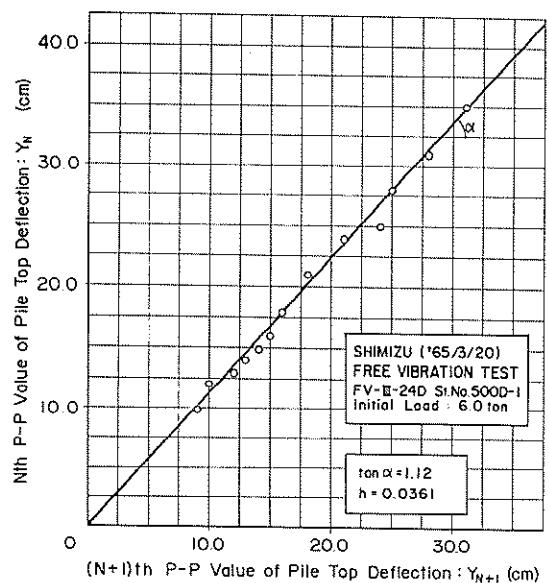


図-15-13 自由振動試験 III, 24 D

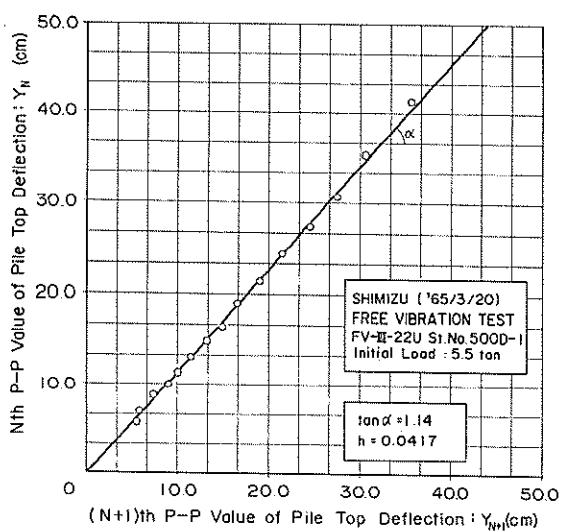


図-15-15 自由振動試験 III, 20 D

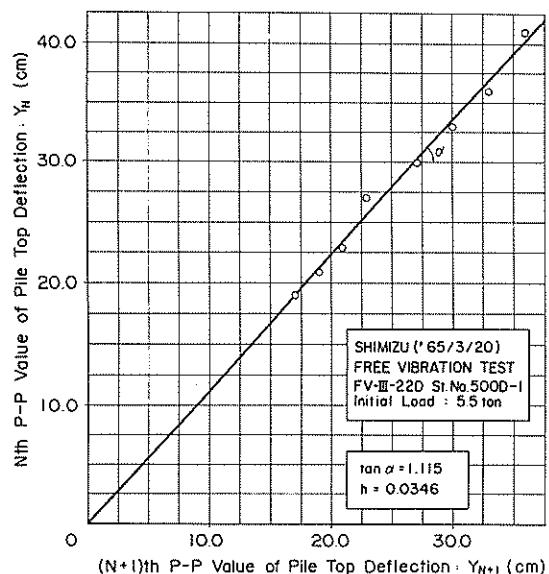


図-15-14 自由振動試験 III, 22 D

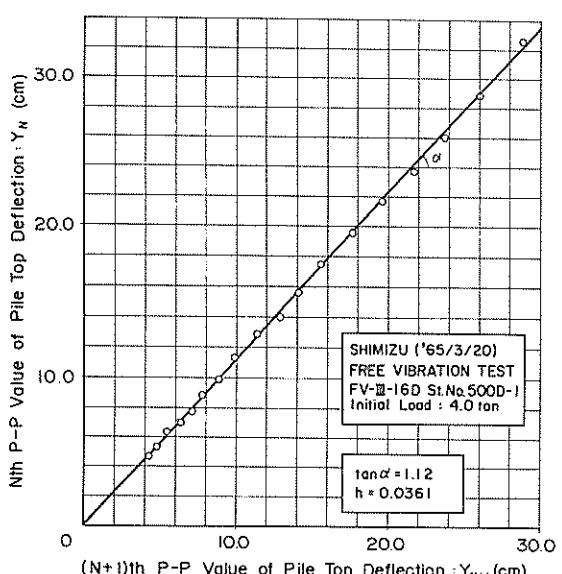


図-15-16 自由振動試験 III, 16 D

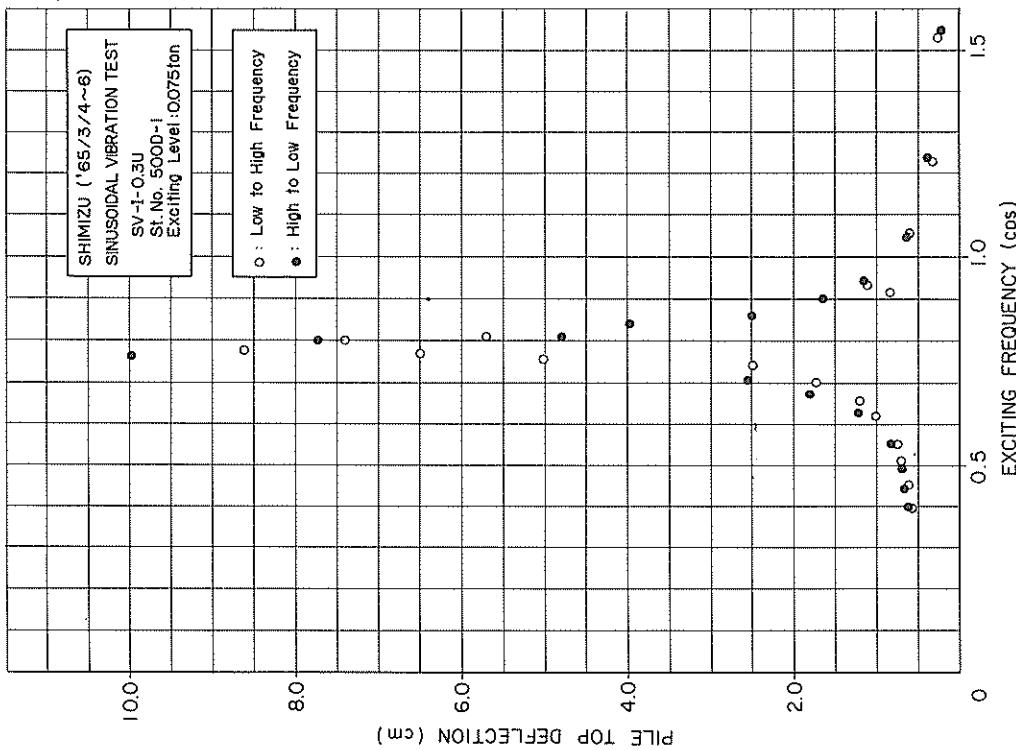


図-16-2 強制振動試験 I , 0.3 U

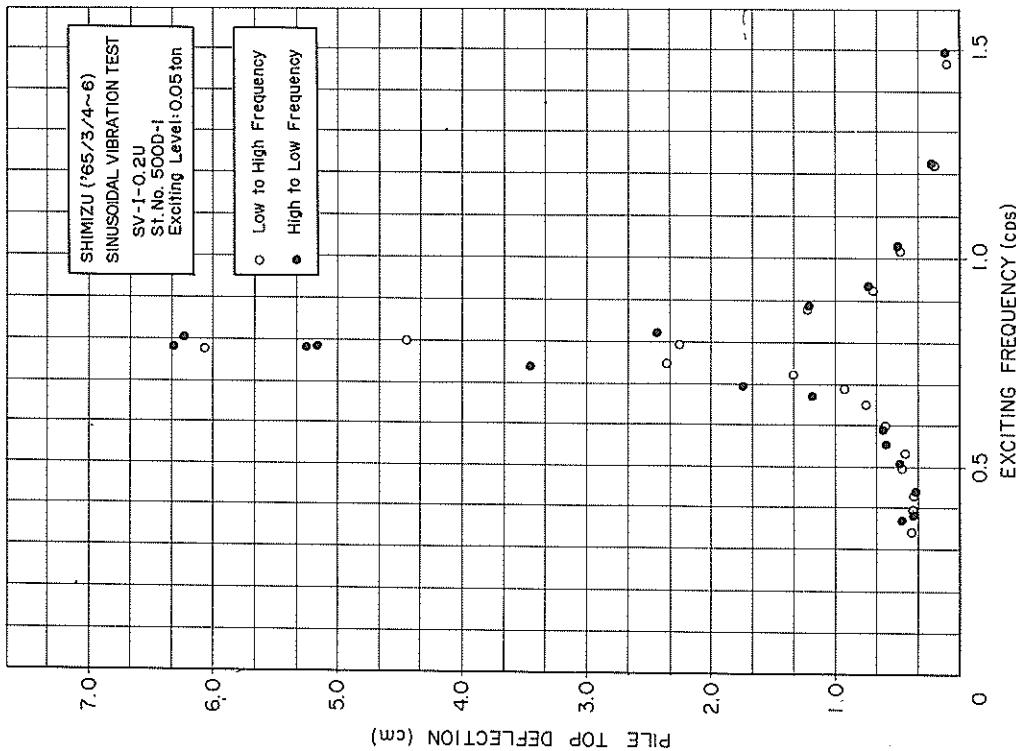


図-16-1 強制振動試験 I , 0.2 U

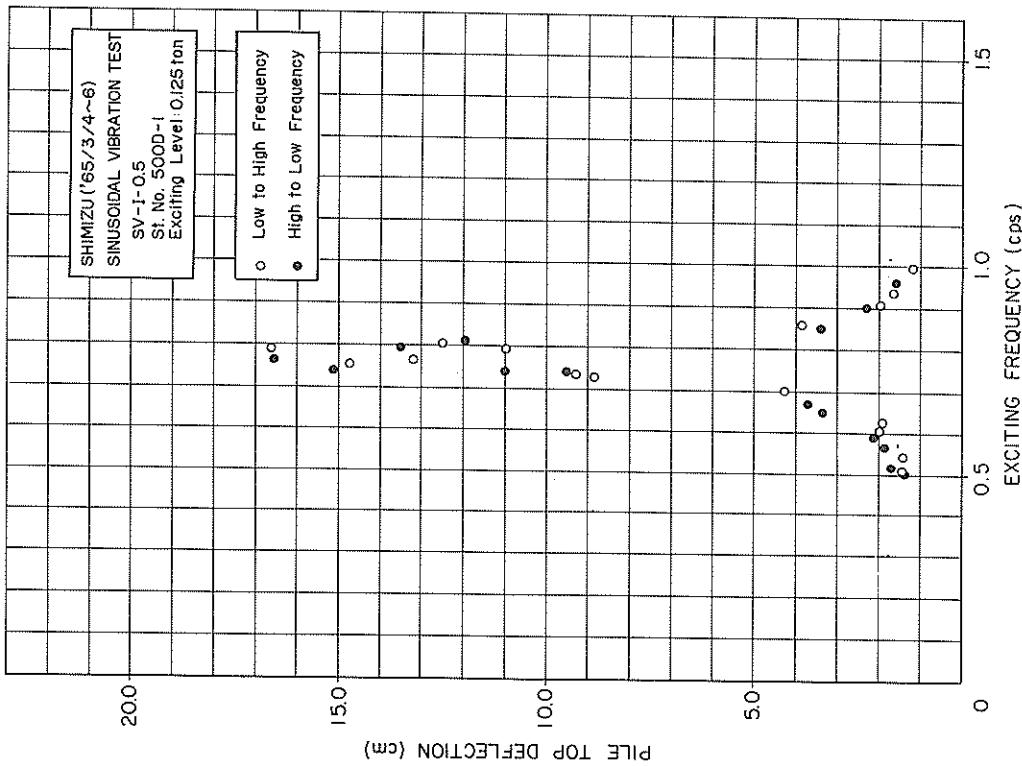


図-16-4 強制振動試験 I , 0.5

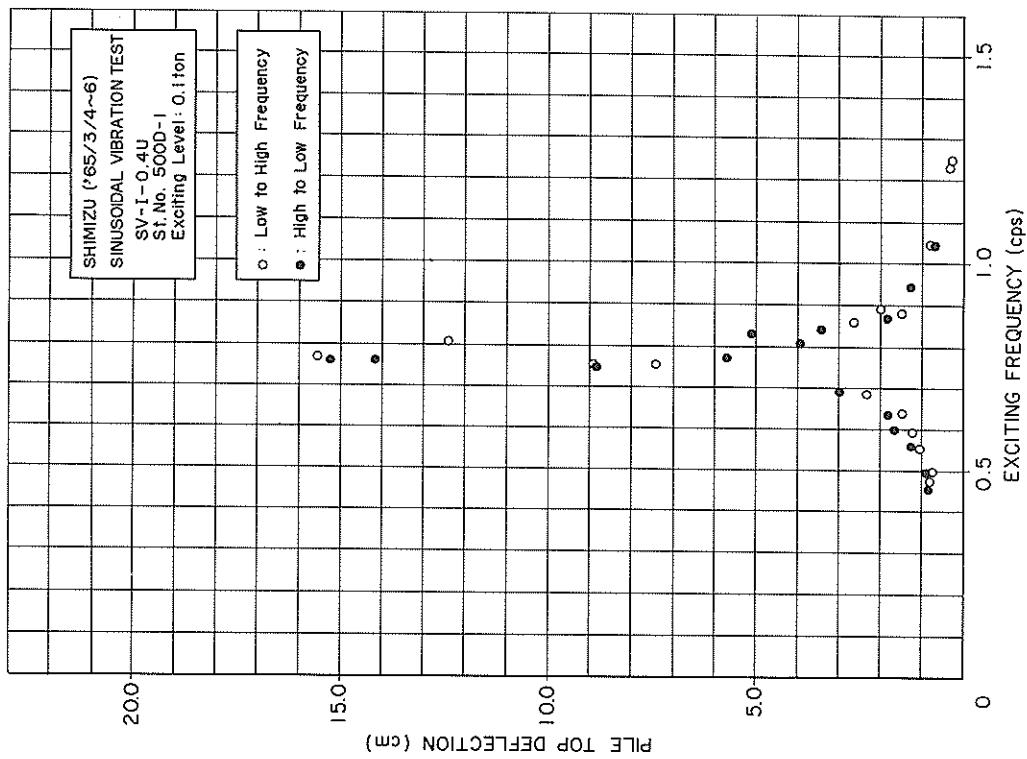


図-16-3 強制振動試験 I , 0.4U

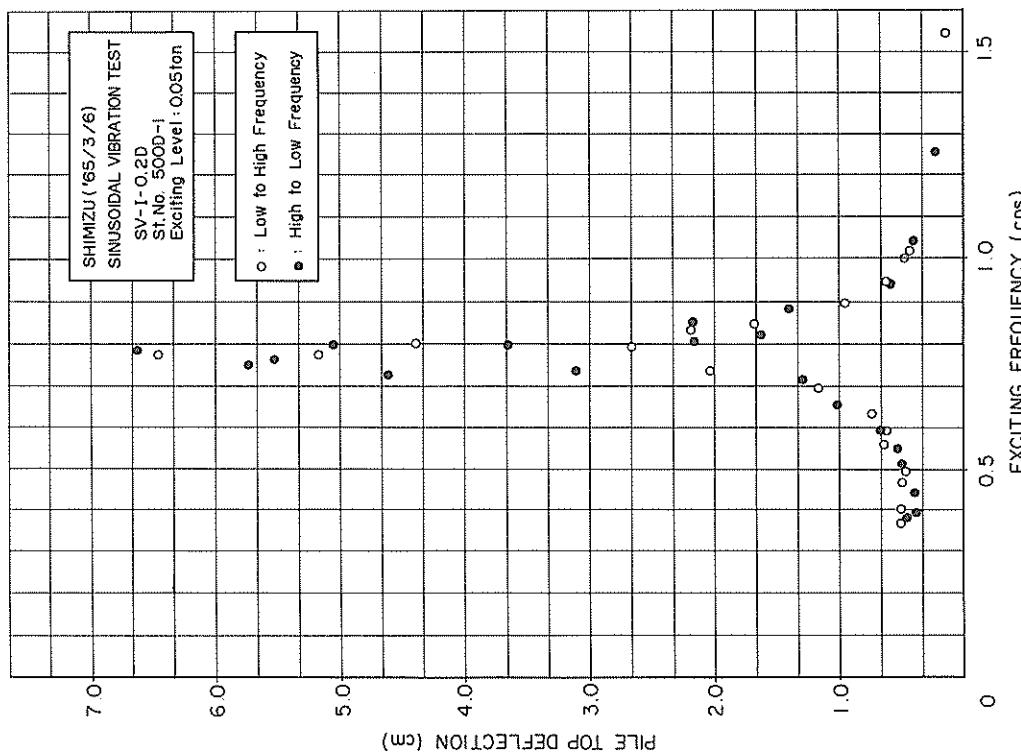


図-16-6 強制振動試験 I, 0.2 D

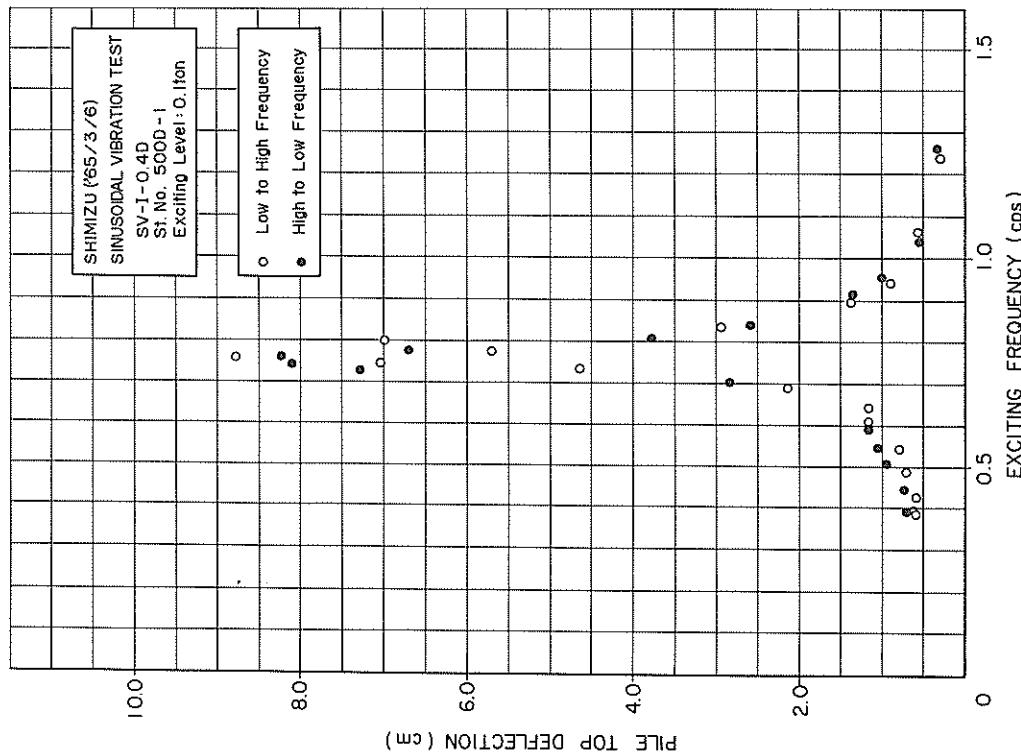


図-16-5 強制振動試験 I, 0.4 D

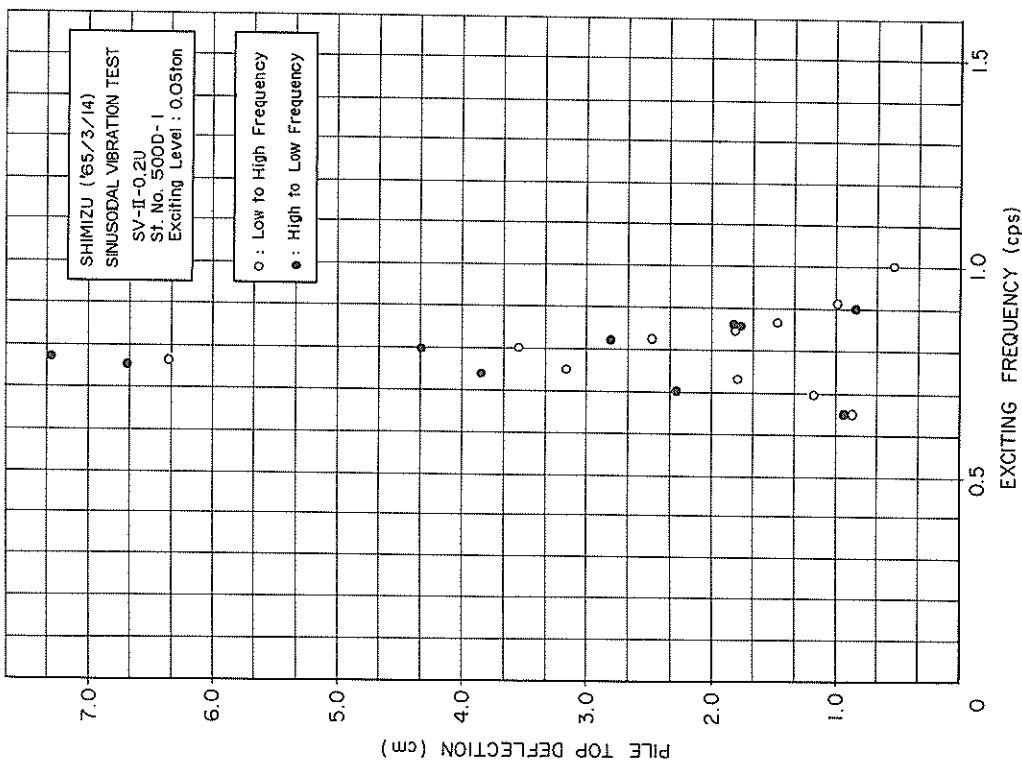


図-17-2 強制振動試験 II , 0.2 U

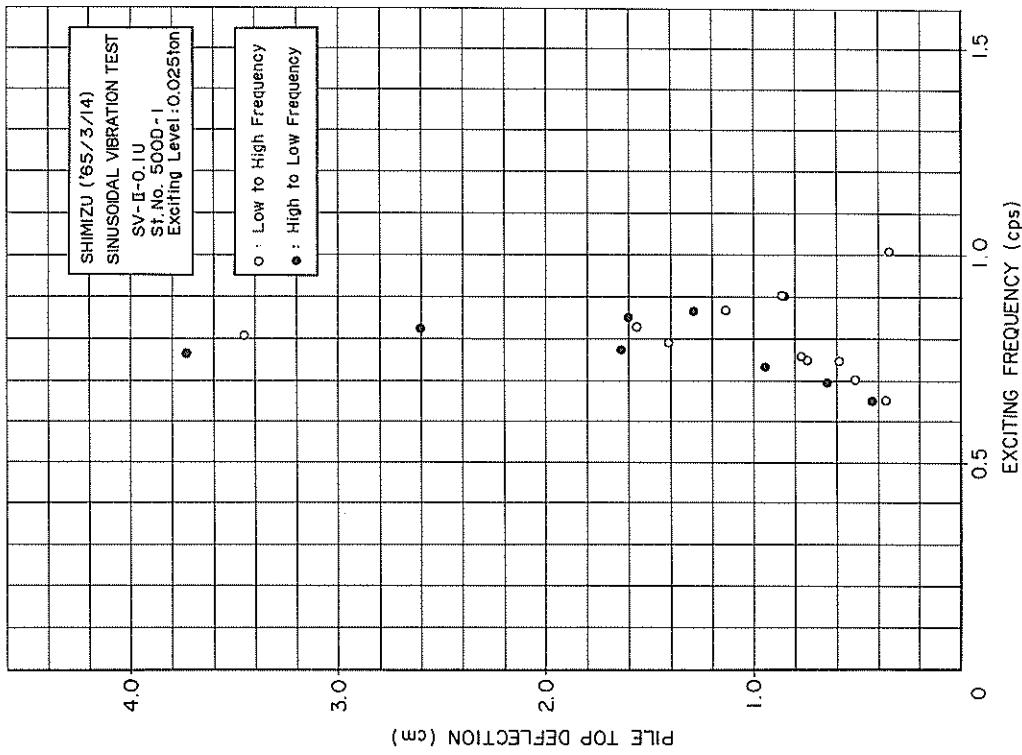


図-17-1 強制振動試験 II , 0.1 U

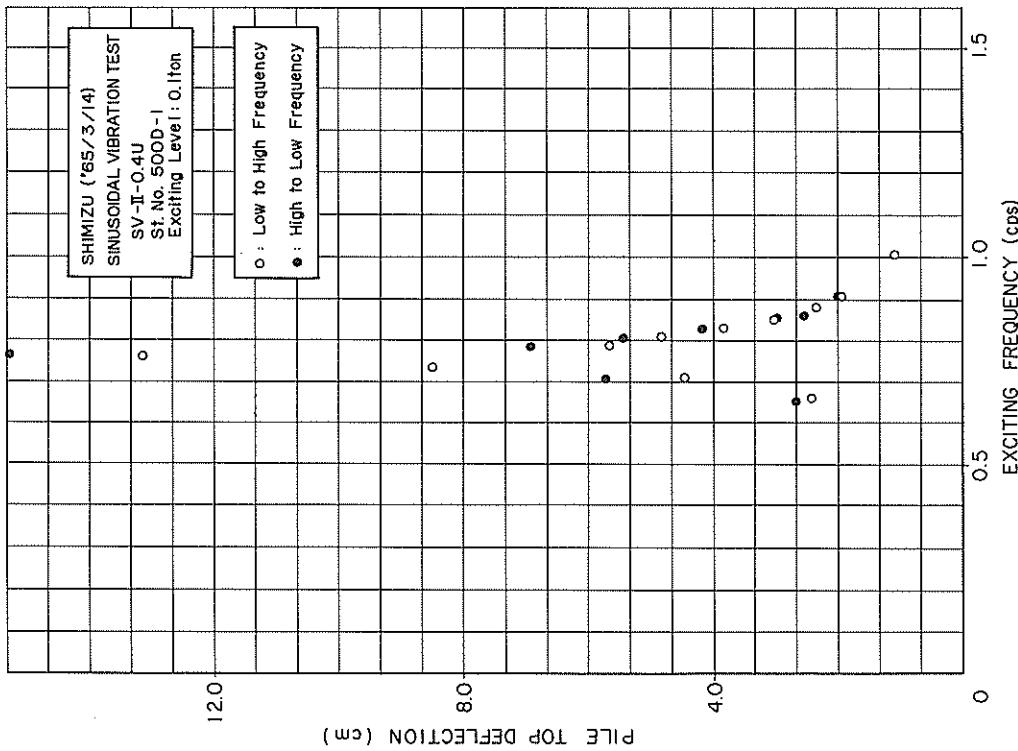


図-17-3 強制振動試験 II , 0.3 U

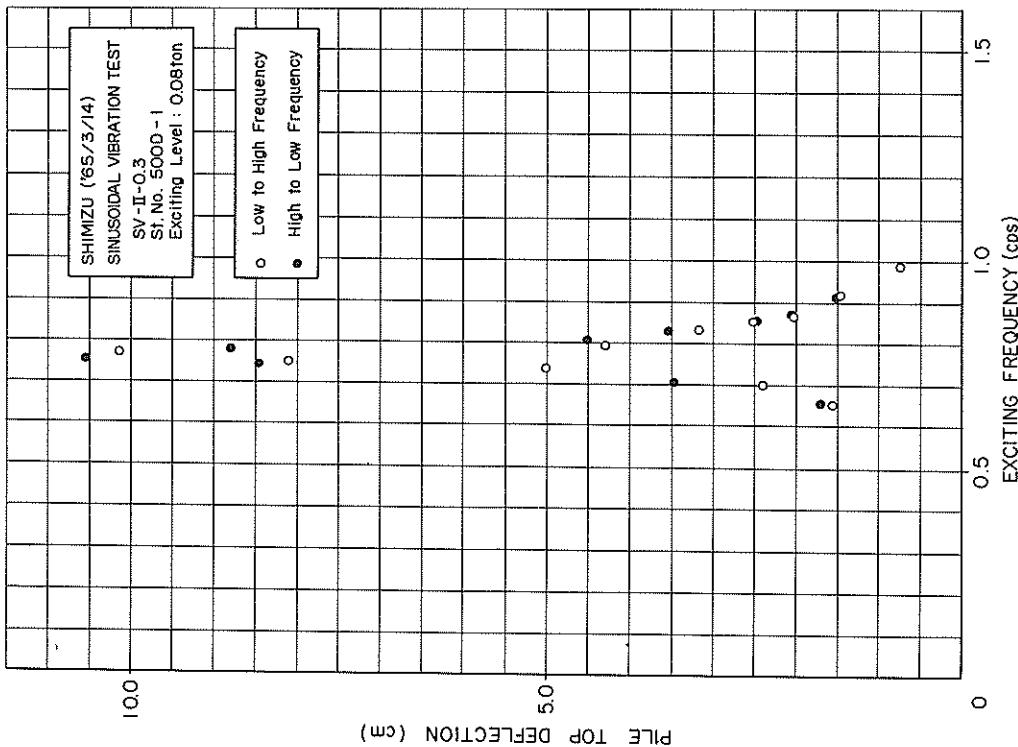


図-17-4 強制振動試験 II , 0.4 U

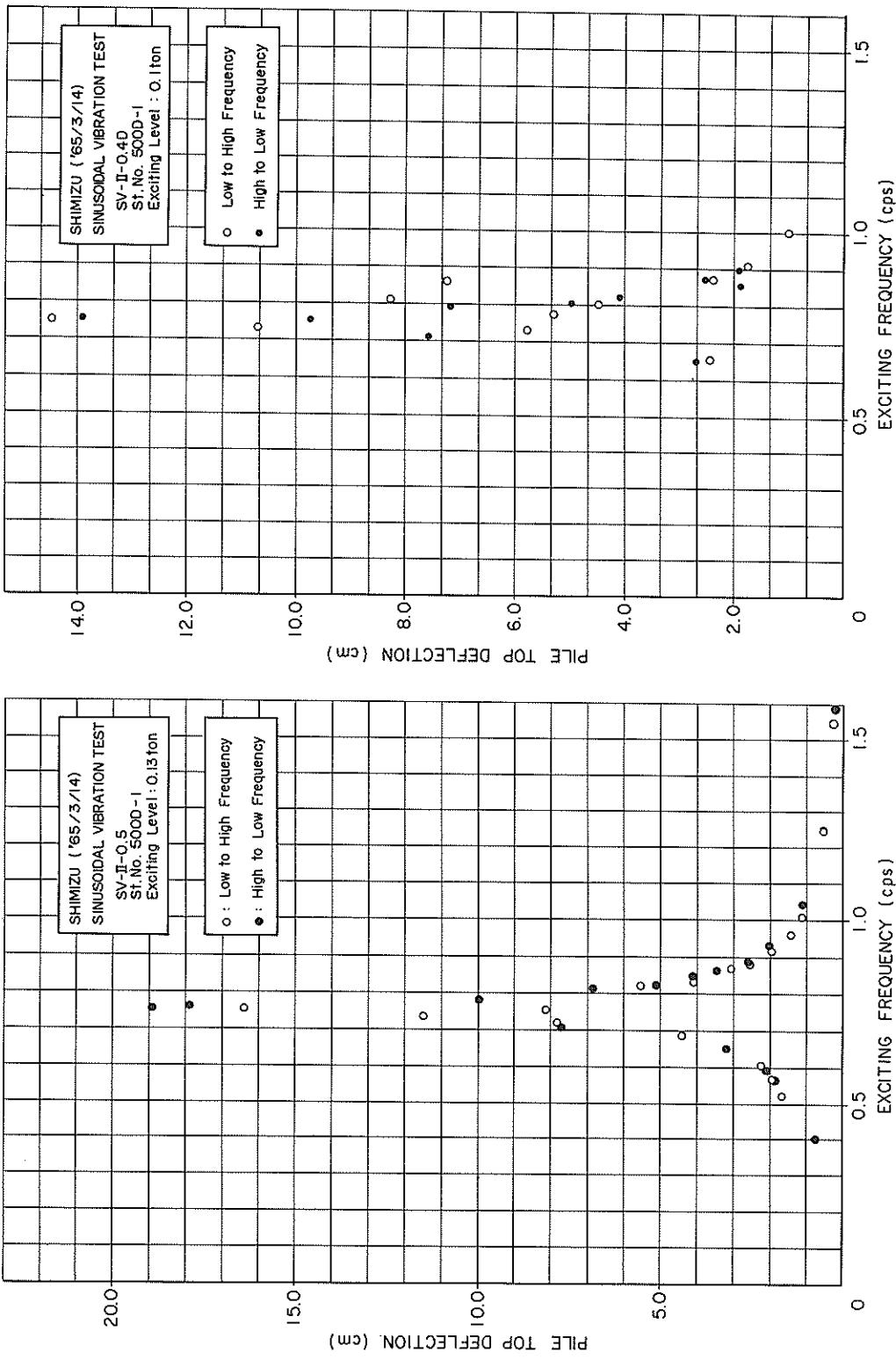


図-17-5 強制振動試験 II, 0.5

図-17-6 強制振動試験 II, 0.4 D

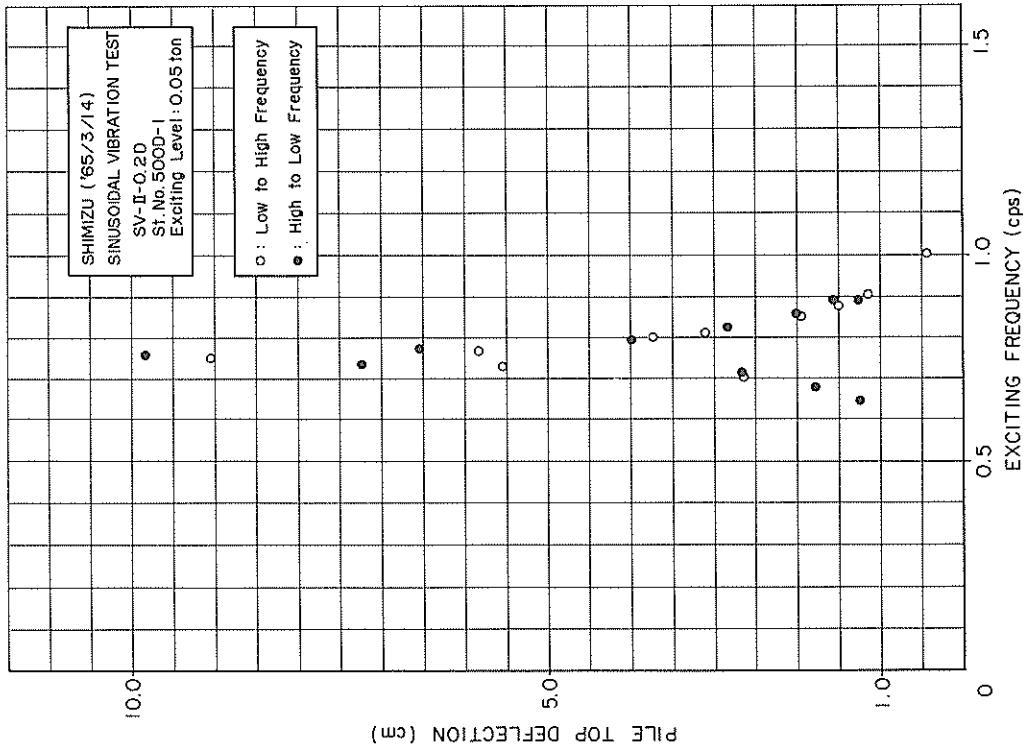


図-17-7 強制振動試験 II, 0.2 D

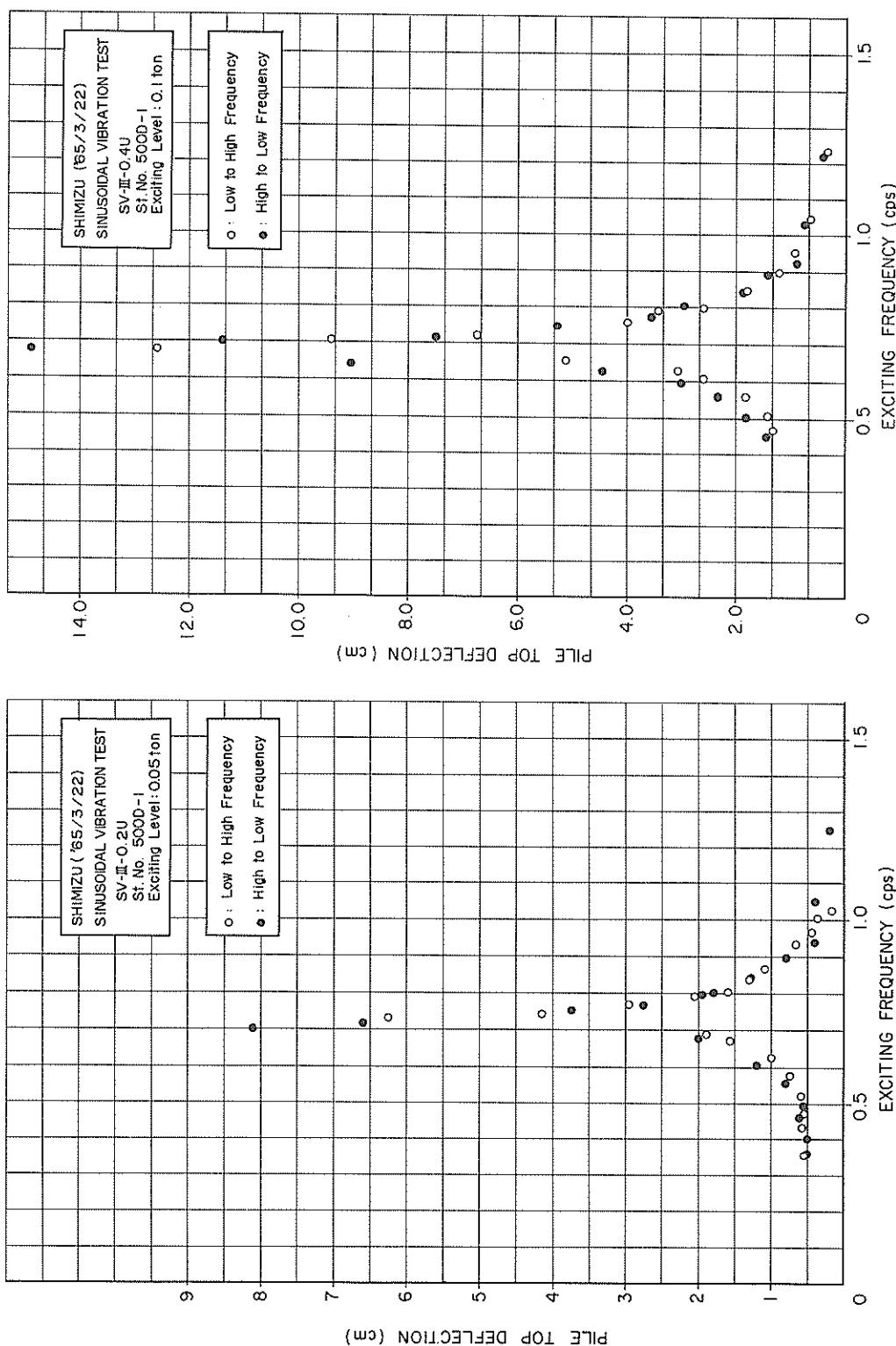


図-18-1 強制振動試験 III, 0.2U

図-18-2 強制振動試験 III, 0.4U

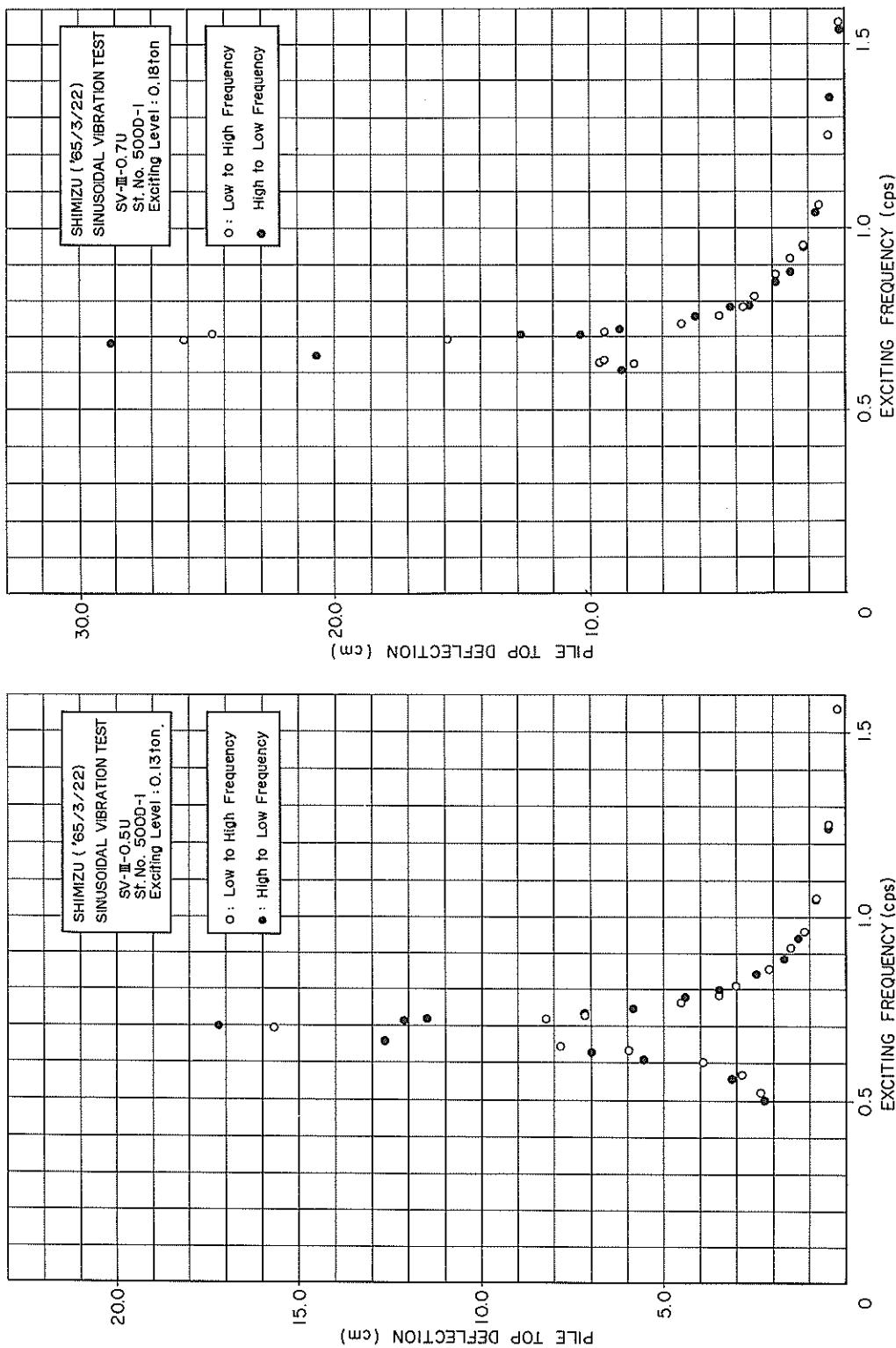


図-18-3 強制振動試験 III, 0.5U

図-18-4 強制振動試験 III, 0.7U

図-18-6 強制振動試験 III, 0.7 D

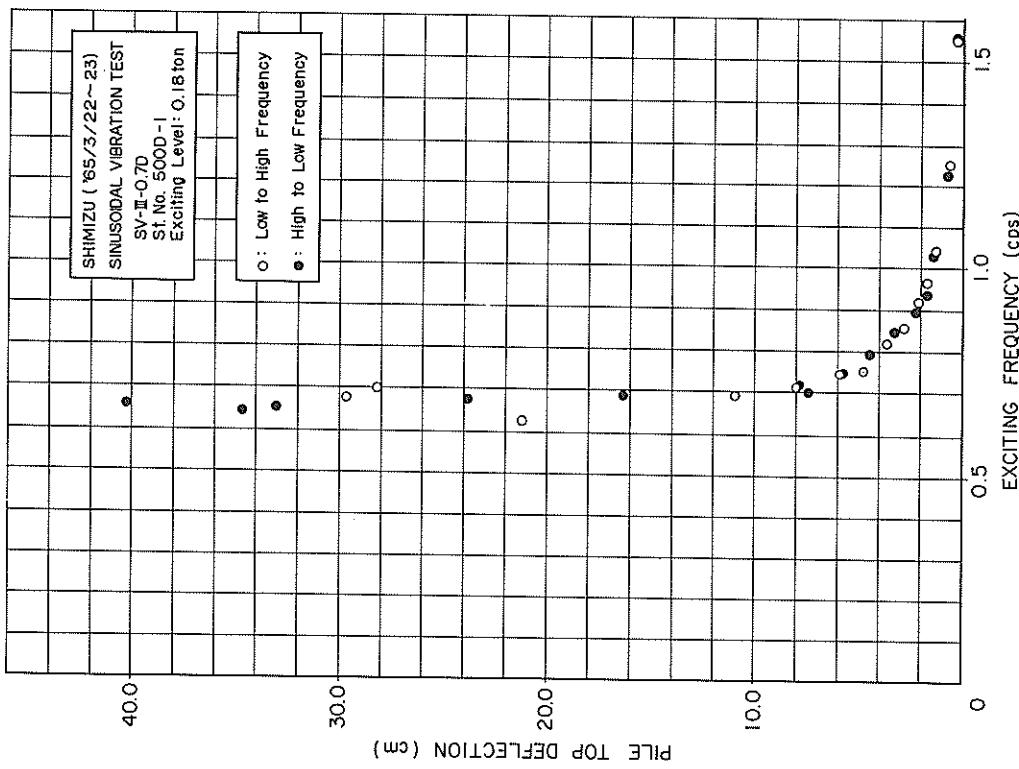
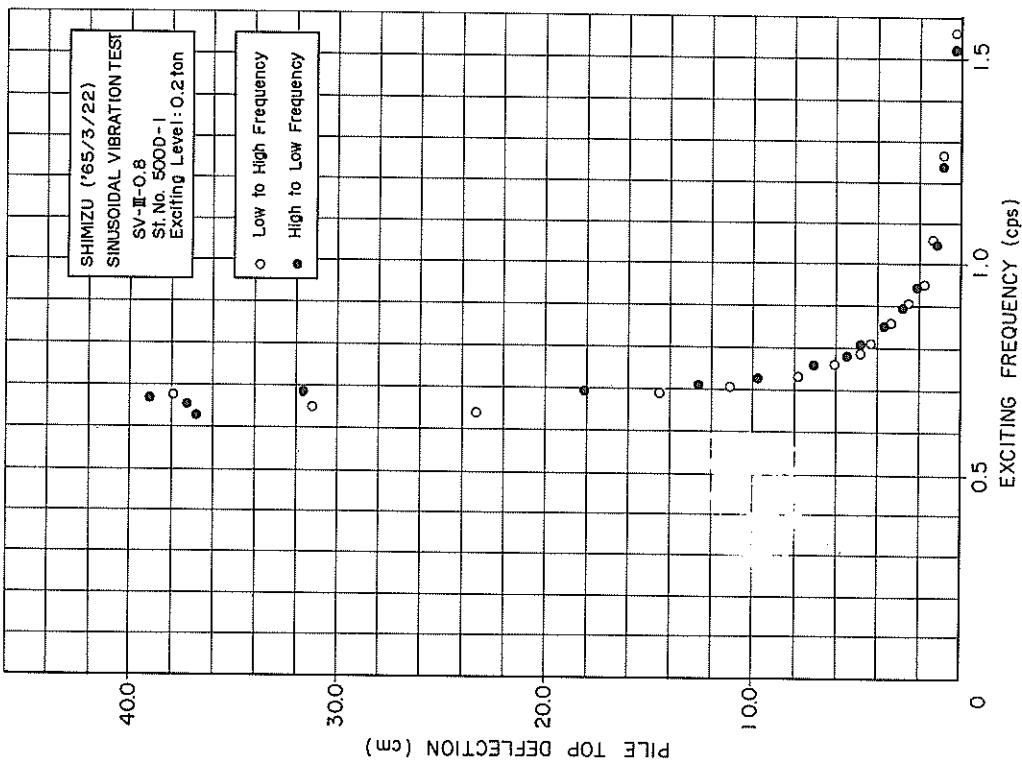


図-18-5 強制振動試験 III, 0.8



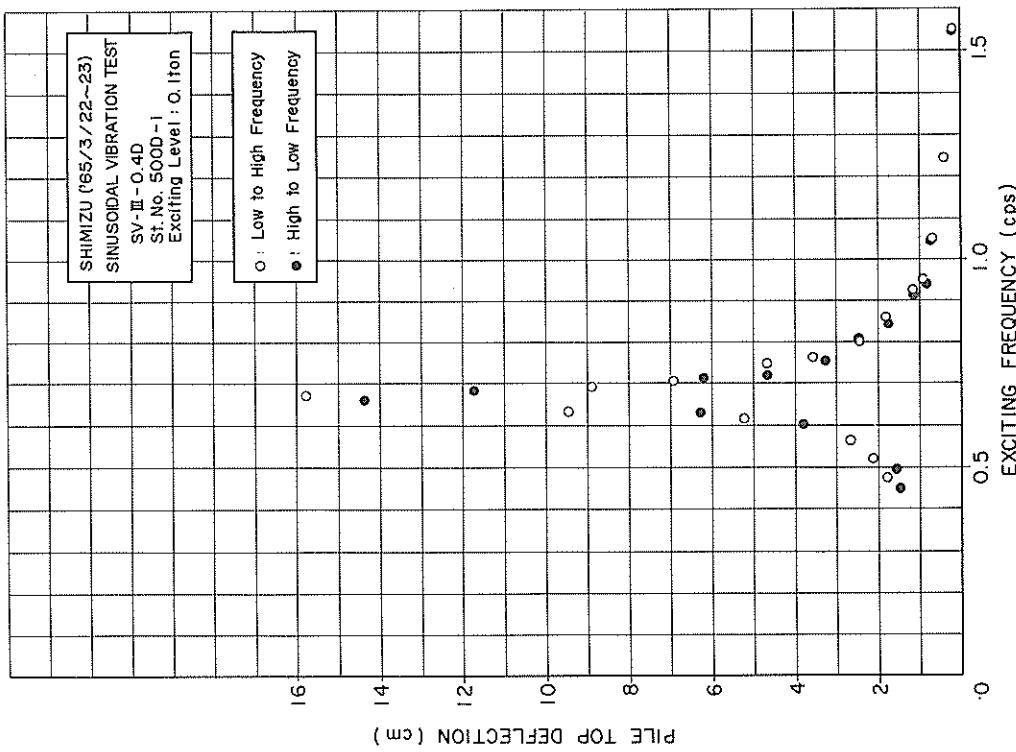


図-18-8 強制振動試験 III, 0.4 D

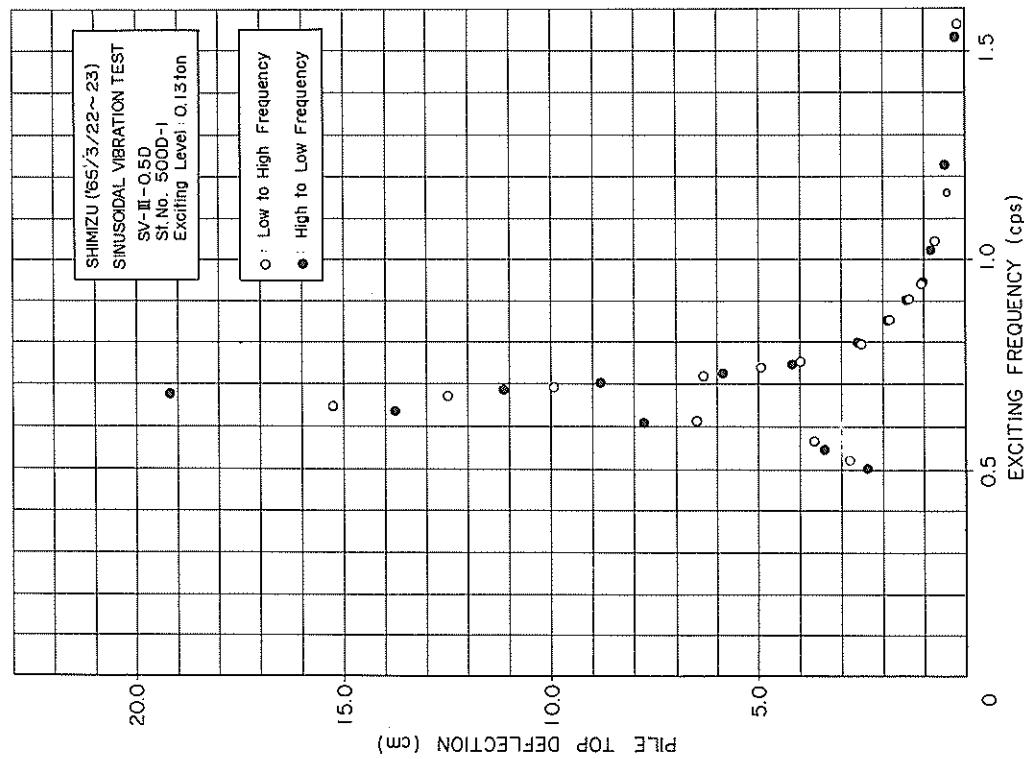


図-18-7 強制振動試験 III, 0.5 D

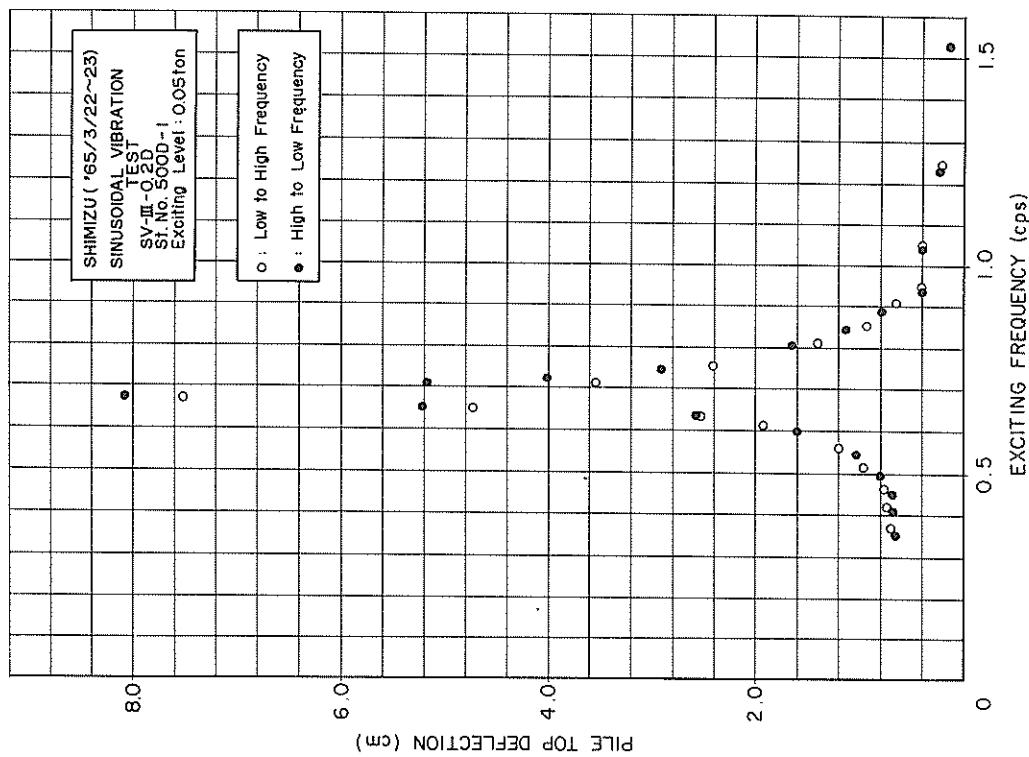


図-18-9 強制振動試験 III, 0.2 D

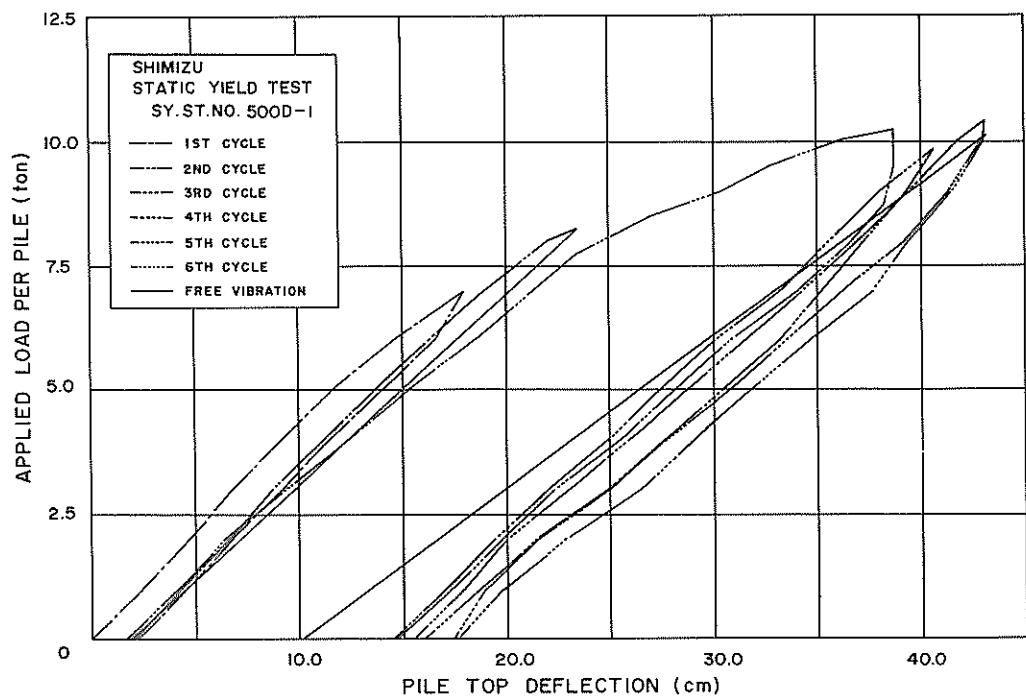


図-19 静的破壊試験

表 - 5 荷重 - 変位、静荷重試験
ST, NO, DG-1

経過時間 (分)	荷重 (ton)	変位 (cm)
0	0	0
0	0.25	0.41
0	0.50	1.08
0	0.74	1.56
0	1.03	2.39
30	0.91	2.39
0	1.25	3.15
0	1.49	3.78
40	1.29	3.78
0	1.75	4.74
0	1.99	5.36
40	1.84	5.36
0	2.24	6.30
0	2.48	7.03
0	2.73	7.63
0	2.99	8.84
50	2.82	8.34
0	3.24	9.25
0	3.48	9.94
0	3.73	10.76
0	3.73	10.88
945	3.39	10.88
0	3.26	10.54
0	3.00	10.03
0	2.77	9.51
0	2.52	8.94
0	2.26	8.34
0	2.01	7.74
0	1.76	7.08
0	1.50	6.42
0	1.25	5.76
0	0.92	5.11
0	0.75	4.42
0	0.50	3.73
0	0.26	2.97
0	0	1.47

表 - 5.2 経過時間 - 荷重、静荷重試験

(単位 ton)

名目荷重 (ton)	1.0	1.5	2.0	3.0	4.0
経過時間					
0 秒	1.0 3	1.4 9	1.9 9	2.9 9	3.7 3
1 0 "	1.0 1	1.4 7	1.9 8	2.9 8	3.7 2
2 0 "	1.0 1	—	1.9 7	2.9 6	3.7 0
3 0 "	1.0 1	—	1.9 7	2.9 5	3.7 0
4 5 "	1.0 1	1.4 6	1.9 7	2.9 5	3.7 0
6 0 "	1.0 1	1.4 5	1.9 6	2.9 4	3.7 0
7 5 "	—	—	—	—	3.6 9
9 0 "	1.0 1	1.4 4	1.9 5	2.9 4	3.6 9
1 2 0 "	0.9 8	1.4 3	1.9 5	2.9 3	3.6 8
1 8 0 "	0.9 8	1.4 1	1.9 4	—	3.6 7
2 1 0 "	—	—	—	2.9 2	—
3 0 0 "	0.9 7	1.4 0	1.9 2	2.9 1	3.6 5
1 0 分	0.9 6	1.3 7	1.8 9	2.8 8	3.6 3
2 0 "	0.9 4	1.3 4	1.8 7	2.8 6	3.6 0
3 0 "	0.9 1	1.3 2	1.8 6	2.8 4	3.5 8
4 0 "		1.2 9	1.8 4	2.8 3	3.5 7
5 0 "				2.8 2	3.5 5
6 0 "					3.5 4
7 0 "					3.5 2
1 3 0 "					3.4 9
9 4 5 "					3.3 9

SHINIZU	AL=I=0.5U	ST. NO.	DG=1	F MAX = 0.50 TON/PILE				40/2/22
				1 CYCLE		2 CYCLE		
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
0,	0,	0,	0,	0,	0,	0,	0,	=0.035
0, 0.060	0, 0.120	0, 0.063	0, 0.100	0, 0.063	0, 0.100	0, 0.063	0, 0.110	
0, 0.125	0, 0.260	0, 0.125	0, 0.250	0, 0.125	0, 0.245	0, 0.125	0, 0.250	
0, 0.188	0, 0.440	0, 0.188	0, 0.395	0, 0.188	0, 0.395	0, 0.188	0, 0.385	
0, 0.250	0, 0.545	0, 0.250	0, 0.535	0, 0.250	0, 0.540	0, 0.250	0, 0.535	
0, 0.308	0, 0.665	0, 0.313	0, 0.685	0, 0.310	0, 0.695	0, 0.310	0, 0.690	
0, 0.380	0, 0.860	0, 0.375	0, 0.828	0, 0.375	0, 0.840	0, 0.375	0, 0.830	
0, 0.438	0, 0.990	0, 0.388	0, 0.995	0, 0.438	0, 0.990	0, 0.440	0, 0.995	
0, 0.500	1, 1.40	0, 0.196	1, 1.34	0, 0.500	1, 1.40	0, 0.500	1, 1.35	
0, 0.440	1, 0.025	0, 0.38	1, 0.035	0, 0.435	1, 0.020	0, 0.438	0, 0.990	
0, 0.375	0, 0.895	0, 0.375	0, 0.897	0, 0.375	0, 0.885	0, 0.376	0, 0.890	
0, 0.313	0, 0.720	0, 0.313	0, 0.760	0, 0.313	0, 0.745	0, 0.313	0, 0.740	
0, 0.250	0, 0.620	0, 0.250	0, 0.605	0, 0.253	0, 0.605	0, 0.248	0, 0.600	
0, 0.188	0, 0.485	0, 0.188	0, 0.465	0, 0.188	0, 0.470	0, 0.188	0, 0.463	
0, 0.125	0, 0.385	0, 0.123	0, 0.323	0, 0.123	0, 0.320	0, 0.125	0, 0.317	
0, 0.063	0, 0.195	0, 0.063	0, 0.185	0, 0.063	0, 0.180	0, 0.063	0, 0.185	
0,	0,	0,	0,	0,	0,	0,	0,	=0.050
0,	0, 0.050	0,	0, 0.055	0,	0, 0.055	0,	0, 0.050	
0,	0, 0.035	0,	0, 0.030	0,	0, 0.030	0,	0, 0.020	
0,	0, 0.115	0,	0, 0.120	0,	0, 0.120	0,	0, 0.135	
0, 0.060	*0, 0.225	*0, 0.110	*0, 0.250	*0, 0.125	*0, 0.280	*0, 0.125	*0, 0.305	
*0, 0.125								
*0, 0.188	*0, 0.405	*0, 0.188	*0, 0.425	*0, 0.188	*0, 0.440	*0, 0.188	*0, 0.450	
*0, 0.250	*0, 0.585	*0, 0.250	*0, 0.560	*0, 0.250	*0, 0.580	*0, 0.250	*0, 0.585	
*0, 0.313	*0, 0.685	*0, 0.113	*0, 0.690	*0, 0.113	*0, 0.720	*0, 0.113	*0, 0.720	
*0, 0.373	*0, 0.830	*0, 0.375	*0, 0.845	*0, 0.375	*0, 0.860	*0, 0.375	*0, 0.870	
*0, 0.438	*0, 0.980	*0, 0.436	*0, 0.985	*0, 0.436	*0, 0.980	*0, 0.438	*0, 0.980	
*0, 0.500	*1, 1.30	*0, 0.500	*1, 1.30	*0, 0.500	*1, 1.60	*0, 0.500	*1, 1.50	
*0, 0.438	*0, 0.975	*0, 0.438	*0, 0.975	*0, 0.438	*0, 1.040	*0, 0.438	*1, 0.935	
*0, 0.375	*0, 0.885	*0, 0.375	*0, 0.882	*0, 0.375	*0, 0.905	*0, 0.378	*0, 0.910	
*0, 0.305	*0, 0.740	*0, 0.315	*0, 0.760	*0, 0.315	*0, 0.780	*0, 0.310	*0, 0.770	
*0, 0.250	*0, 0.615	*0, 0.245	*0, 0.610	*0, 0.245	*0, 0.635	*0, 0.250	*0, 0.635	
*0, 0.188	*0, 0.485	*0, 0.188	*0, 0.497	*0, 0.185	*0, 0.500	*0, 0.185	*0, 0.500	
*0, 0.125	*0, 0.335	*0, 0.125	*0, 0.355	*0, 0.125	*0, 0.375	*0, 0.125	*0, 0.365	
*0, 0.055	*0, 0.170	*0, 0.070	*0, 0.215	*0, 0.065	*0, 0.225	*0, 0.065	*0, 0.190	
0,	*0, 0.660	0,	*0, 0.050	0,	0,	0,	*0, 0.060	

表 - 6 - 1 交番荷重試験 I , 0.5 U

SHIMIZU	AL=I=iU	ST.NO.	DG#1	FMAX= 1,00 TON/PILE	4 CYCLE			
					1 CYCLE	2 CYCLE	3 CYCLE	LOAD DEFLECTION (TON) (CM)
0,	"0.060	0,	"0.135	0,	-0.120	0,	-0.120	0,
0, 0.125	0, 0.210	0, 0.125	0, 0.165	0, 0.125	0, 0.125	0, 0.125	0, 0.180	0, 0.125
0, 0.250	0, 0.510	0, 0.250	0, 0.475	0, 0.250	0, 0.445	0, 0.445	0, 0.500	0, 0.500
0, 0.375	0, 0.800	0, 0.375	0, 0.785	0, 0.375	0, 0.775	0, 0.775	0, 0.825	0, 0.825
0, 0.500	0, 1.110	0, 0.500	0, 1.100	0, 0.500	0, 1.090	0, 1.090	0, 1.500	0, 1.35
0, 0.625	0, 1.410	0, 0.625	0, 1.428	0, 0.625	0, 1.430	0, 1.430	0, 1.465	0, 1.465
0, 0.750	1, 1.750	0, 0.750	1, 1.725	0, 0.750	1, 1.740	0, 1.740	0, 1.790	0, 1.790
0, 0.875	2, 0.35	0, 0.778	2, 0.050	0, 0.875	2, 0.065	0, 0.875	0, 0.875	2, 1.05
1, 0.000	2, 35	1, 0.000	2, 380	1, 0.003	2, 375	1, 0.003	2, 380	2, 1.85
0, 0.875	2, 1.40	0, 0.878	2, 1.445	0, 0.878	2, 1.45	0, 0.878	0, 0.875	2, 1.85
0, 0.750	1, 875	0, 0.750	1, 885	0, 0.750	1, 860	0, 0.750	0, 0.750	1, 925
0, 0.625	1, 600	0, 0.628	1, 600	0, 0.625	1, 575	0, 0.625	0, 0.623	1, 635
0, 0.500	1, 310	0, 0.500	1, 615	0, 0.500	1, 590	0, 0.500	0, 0.500	1, 550
0, 0.375	1, 010	0, 0.375	1, 020	0, 0.375	0, 0.985	0, 0.985	0, 0.985	1, 055
0, 0.250	0, 715	0, 0.250	0, 705	0, 0.253	0, 680	0, 0.253	0, 0.253	0, 745
0, 0.125	0, 405	0, 0.125	0, 0.995	0, 0.125	0, 355	0, 0.125	0, 0.125	0, 415
0,	0, 105	0,	0,	0,	0, 100	0,	0, 100	0,
0,	0, 060	0,	0,	0,	0, 070	0,	0, 070	0,
0, 0.125	"0, 665	0, 0.130	"0, 250	0, 0.133	0, 120	0, 0.125	0, 0.125	0, 220
0, 0.250	"0, 550	0, 0.253	"0, 550	0, 0.250	0, 545	0, 0.250	0, 0.250	0, 560
"0, 0.375	"0, 655	"0, 375	"0, 860	"0, 378	"0, 860	"0, 380	"0, 380	"0, 880
"0, 0.500	"1, 160	"0, 500	"1, 160	"0, 500	"1, 140	"0, 500	"0, 500	"1, 180
"0, 0.625	"1, 660	"0, 625	"1, 480	"0, 625	"1, 450	"0, 625	"0, 625	"1, 490
"0, 0.750	"1, 790	"0, 750	"1, 810	"0, 748	"1, 780	"0, 750	"0, 750	"1, 805
"0, 0.875	"2, 120	"0, 873	"2, 120	"0, 875	"2, 105	"0, 875	"0, 875	"2, 145
"1, 003	"2, 465	"1, 000	"2, 445	"1, 000	"2, 455	"1, 000	"2, 455	"2, 465
"0, 0.875	"2, 235	"0, 870	"2, 205	"0, 875	"2, 215	"0, 875	"0, 875	"2, 215
"0, 0.748	"1, 060	"0, 750	"1, 950	"0, 750	"1, 940	"0, 750	"0, 750	"1, 950
"0, 0.500	"1, 390	"0, 503	"1, 355	"0, 500	"1, 340	"0, 500	"0, 500	"1, 365
"0, 0.625	"1, 685	"0, 625	"1, 655	"0, 625	"1, 640	"0, 625	"0, 625	"1, 675
"0, 0.500	"1, 175	"0, 503	"1, 355	"0, 500	"1, 340	"0, 500	"0, 500	"1, 365
"0, 0.373	"1, 095	"0, 375	"1, 060	"0, 375	"1, 055	"0, 375	"0, 375	"1, 080
"0, 0.250	"0, 805	"0, 250	"0, 755	"0, 248	"0, 765	"0, 250	"0, 250	"0, 765
"0, 0.125	"0, 500	"0, 125	"0, 450	"0, 125	"0, 450	"0, 125	"0, 125	"0, 470
"0,	"0, 175	"0,	"0, 170	"0,	"0, 145	"0,	"0, 145	"0, 155

SHIMIZU	AL=I=1.5U	ST, NO., DG=1	FMAX= 1,50 TON/PILE	40/2/22+23			
				1 CYCLE	2 CYCLE	3 CYCLE	4 CYCLE
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0,	-0.140	0.	-0.270	0.	-0.090	0.	-0.095
0, 123	0.140	0.125	0.050	0.123	0.190	0.125	0.125
0, 250	0.440	0.250	0.395	0.250	0.505	0.250	0.250
0, 375	0.790	0.375	0.785	0.375	0.840	0.375	0.375
0, 500	1.110	0.503	1.085	0.498	1.160	0.510	0.500
0, 625	1,420	0.625	1,420	0.625	1,490	0.625	1,535
0, 750	1,730	0.750	1,740	0.750	1,820	0,750	1,750
0, 875	2,055	0.873	2,070	0.875	2,160	0,875	2,205
1,000	2,390	1,000	2,410	1,000	2,500	1,000	2,500
1,125	2,710	1,125	2,735	1,125	2,830	1,125	2,775
1,250	3,030	1,250	3,060	1,250	3,175	1,250	3,185
1,375	3,350	1,375	3,395	1,373	3,500	1,373	3,525
1,500	3,715	1,498	3,720	1,500	3,855	1,498	3,855
1,625	3,985	1,375	3,500	1,438	3,770	1,438	3,765
1,750	3,210	1,250	3,200	1,370	3,610	1,373	3,635
1,875	2,955	1,125	2,950	1,250	3,380	1,250	3,375
2,000	2,660	1,003	2,680	1,123	3,080	1,125	3,105
2,125	2,385	0,875	2,380	1,000	2,805	1,000	2,810
2,250	2,085	0,750	2,085	0,873	2,495	0,875	2,520
2,375	1,785	0,625	1,790	0,750	2,210	0,748	2,195
2,500	1,475	0,500	1,475	0,623	1,880	0,625	1,905
2,625	1,155	0,375	1,155	0,500	1,585	0,500	1,575
2,750	0,815	0,250	0,815	0,375	1,260	0,78	1,260
2,875	0,490	0,125	0,495	0,250	0,920	0,250	0,925
3,000	0,125	0,	0,165	0,125	0,590	0,178	0,585
3,125	0,180	0,	0,	0,	0,	0,	0,
3,250	0,490	0,125	0,495	0,250	0,920	0,250	0,925
3,375	0,180	0,	0,	0,	0,	0,	0,
3,500	0,125	0,125	0,150	0,	0,285	0,	0,275
3,625	0,510	0,250	0,205	0,	0,220	0,	0,215
3,750	0,830	0,375	0,565	0,125	0,115	0,125	0,125
3,875	0,120	0,500	0,225	0,250	0,445	0,250	0,435
4,000	0,698	0,	0,	0,375	0,765	0,375	0,755
4,125	0,460	-0,625	-1,550	-0,500	-1,080	-0,500	-1,090
4,250	-0,800	-0,750	-1,905	-0,625	-1,415	-0,625	-1,415
4,375	-2,120	-0,873	-2,200	-0,750	-1,745	-0,750	-1,755
4,500	-2,445	-1,000	-2,575	-0,875	-2,080	-0,875	-2,115
4,625	-1,250	-1,125	-2,905	-1,000	-2,425	-1,000	-2,435
4,750	-3,140	-1,250	-3,255	-1,125	-2,750	-1,125	-2,755
4,875	-3,490	-1,375	-3,655	-1,250	-3,065	-1,250	-3,085
5,000	-3,840	-1,500	-3,945	-1,375	-3,415	-1,375	-3,455
5,125	-3,610	-1,373	-3,705	-1,500	-3,775	-1,500	-3,775
5,250	-3,360	-1,250	-3,440	-1,438	-3,665	-1,438	-3,660

表- 6- 3 交番荷重試験 I , 1.5 U(続き)

SHIMIZU	Alt. I=1.5U	ST. NO.	DQ=1	F MAX= 1,150 TON/PILE				40/2/22=23			
				1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
-1.123	-3.075	-1.128	-3.165	-1.375	-3.530	-1.375	-3.535	-1.375	-3.535	-1.375	-3.535
-1.000	-2.810	-0.890	-2.595	-1.253	-3.265	-1.250	-3.245	-1.253	-3.255	-1.253	-3.255
-0.875	-2.510	-0.875	-2.565	-1.123	-2.965	-1.125	-2.970	-1.126	-2.975	-1.126	-2.975
-0.750	-2.200	-0.750	-2.265	-1.000	-2.680	-1.000	-2.675	-0.983	-2.625	-0.983	-2.625
-0.625	-1.890	-0.625	-1.955	-0.675	-2.400	-0.875	-2.385	-0.880	-2.385	-0.880	-2.385
-0.498	-1.590	-0.500	-1.635	-0.750	-2.095	-0.750	-2.075	-0.750	-2.060	-0.750	-2.060
-0.375	-1.270	-0.378	-1.315	-0.625	-1.775	-0.628	-1.770	-0.625	-1.755	-0.625	-1.755
-0.243	-0.940	-0.250	-0.985	-0.500	-1.660	-0.503	-1.640	-0.503	-1.415	-0.503	-1.415
-0.135	-0.650	-0.125	-0.656	-0.376	-1.150	-0.375	-1.125	-0.375	-1.095	-0.375	-1.095
0.	-0.315	0,	-0.310	-0.250	-0.825	-0.250	-0.795	-0.250	-0.250	-0.250	-0.250
				-0.128	-0.495	-0.128	-0.470	-0.125	-0.425	-0.125	-0.425
				0,	-0.135	0,	-0.125	0,	-0.085	0,	-0.085

表-6-4 交番荷重試験 I, 2.0 U

SHIMIZU	AL=I=200	ST. NO.	DG=1	FMAX= 2,00 TON/PILE				40/2/23
				1 CYCLE		2 CYCLE		
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
0,	=0.180	0,	=0.329	0,	=0.329	0,	=0.234	
0,253	0,425	0,250	0,321	0,250	0,353	0,	0,416	
0,500	1,085	0,503	1,031	0,500	1,063	0,503	1,336	
0,660	1,510	0,750	1,736	0,750	1,781	0,750	1,816	
1,000	2,416	1,000	2,431	1,000	2,451	1,000	2,536	
1,250	3,090	1,250	3,131	1,250	3,171	1,250	3,256	
1,500	3,754	1,496	3,841	1,500	3,881	1,500	3,936	
1,748	4,508	1,748	4,541	1,750	4,551	1,750	4,632	
1,996	5,214	2,000	5,261	2,000	5,281	2,000	5,342	
1,875	4,994	1,875	5,081	1,875	5,056	1,878	5,142	
1,750	4,738	1,748	4,791	1,750	4,796	1,750	4,882	
1,498	4,164	1,500	4,231	1,500	4,231	1,495	4,282	
1,250	3,599	1,335	3,846	1,250	3,611	1,250	3,702	
1,000	2,979	1,000	2,996	1,003	3,021	1,000	3,082	
0,750	2,339	0,750	2,356	0,750	2,351	0,750	2,432	
0,500	1,664	0,500	1,676	0,500	1,686	0,503	1,752	
0,250	0,963	0,250	0,976	0,250	0,986	0,250	1,022	
0,	0,263	0,	0,250	0,	0,250	0,	0,372	
0,	0,239	0,	0,239	0,	0,239	0,	0,352	
-0,250	-0,451	-0,250	-0,494	-0,250	-0,369	-0,250	-0,358	
-0,500	-1,151	-0,500	-1,164	-0,500	-1,049	-0,500	-1,036	
-0,750	-1,816	-0,750	-1,874	-0,748	-1,754	-0,750	-1,766	
-1,003	-2,557	-1,000	-2,574	-1,005	-2,499	-1,000	-2,476	
-1,250	-3,247	-1,250	-3,244	-1,250	-3,159	-1,248	-3,158	
-1,498	-3,954	-1,500	-3,964	-1,500	-3,859	-1,500	-3,908	
-1,750	-4,674	-1,750	-4,644	-1,750	-4,559	-1,750	-4,586	
-2,000	-5,419	-2,006	-5,354	-2,000	-5,279	-2,000	-5,296	
-1,863	-5,204	-1,875	-5,156	-1,875	-5,159	-1,875	-5,048	
-1,750	-4,926	-1,750	-4,899	-1,750	-4,799	-1,750	-4,763	
-1,500	-4,374	-1,503	-4,334	-1,503	-4,239	-1,503	-4,226	
-1,250	-3,764	-1,253	-3,729	-1,253	-3,634	-1,250	-3,508	
-1,003	-3,140	-1,000	-3,099	-1,003	-3,004	-1,000	-2,968	
-0,750	-2,440	-0,750	-2,454	-0,750	-2,364	-0,750	-2,316	
-0,500	-1,779	-0,500	-1,769	-0,500	-1,694	-0,500	-1,638	
-0,253	-1,129	-0,250	-1,089	-0,250	-1,034	-0,253	-0,283	
0,	0,349	0,	0,399	0,	0,304	0,	0,278	

SHIMIZU	AL-1+2, SU	ST. NO.	Dg=1	FMAX= 2,50 TON/PILE				40/2/24			
				1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.	*0.340	0.	*0.430	0.	*0.340	0.	*0.340	0.	*0.480	0.	*0.480
0.250	0.250	0.250	0.230	0.250	0.250	0.320	0.250	0.250	0.305	0.250	0.305
0.500	0.940	0.503	0.950	0.500	0.950	1.010	0.500	0.500	0.945	0.500	0.945
0.750	1.660	0.750	1.645	0.750	1.645	1.710	0.750	0.750	1.625	0.750	1.625
1.000	2.325	1.000	2.365	1.000	2.365	2.420	1.000	1.000	2.335	1.000	2.335
1.250	3.040	1.250	3.080	1.250	3.080	3.140	1.250	1.250	3.035	1.250	3.035
1.500	3.750	1.505	3.780	1.500	3.780	3.840	1.500	1.500	3.755	1.500	3.755
1.750	4.450	1.750	4.480	1.748	4.480	4.550	1.748	1.750	4.555	1.750	4.555
2.000	5.130	2.000	5.190	2.000	5.190	5.250	2.000	2.000	5.195	2.000	5.195
2.250	5.850	2.250	5.880	2.250	5.880	5.970	2.250	2.250	5.875	2.250	5.875
2.500	6.550	2.500	6.610	2.500	6.610	6.680	2.500	2.499	6.575	2.500	6.575
2.875	6.850	2.848	6.326	2.850	6.326	6.470	2.848	2.875	6.375	2.850	6.375
2.248	6.080	2.250	6.135	2.248	6.135	6.190	2.248	2.250	6.105	2.250	6.105
2.000	5.530	2.000	5.580	2.000	5.580	5.640	2.000	2.000	5.445	2.000	5.445
1.750	4.960	1.750	5.000	1.750	5.000	5.070	1.750	1.753	4.955	1.750	4.955
1.500	4.370	1.500	4.400	1.500	4.400	4.470	1.500	1.503	4.355	1.500	4.355
1.250	3.740	1.253	3.760	1.250	3.760	3.840	1.250	1.250	3.745	1.250	3.745
1.000	3.110	1.000	3.100	1.000	3.100	3.190	1.000	1.000	3.085	1.000	3.085
0.750	2.440	0.750	2.430	0.750	2.430	2.520	0.750	0.750	2.335	0.750	2.335
0.500	1.760	0.500	1.740	0.500	1.740	1.830	0.500	0.503	2.035	0.503	2.035
0.250	1.060	0.250	1.020	0.250	1.020	1.110	0.250	0.250	1.135	0.250	1.135
0.	0.330	0.	0.350	0.	0.350	0.	0.350	0.	0.355	0.	0.355
0.	0.310	0.	0.340	0.	0.340	0.	0.340	0.	0.345	0.	0.345
0.250	0.450	0.250	0.340	0.250	0.340	0.325	0.250	0.250	0.465	0.250	0.465
0.500	1.010	0.500	1.050	0.500	1.050	1.060	0.500	0.500	1.245	0.500	1.245
0.750	1.740	0.750	1.780	0.750	1.780	1.800	0.750	0.750	1.865	0.750	1.865
1.000	2.440	1.000	2.500	1.000	2.500	2.530	1.000	1.000	2.585	1.000	2.585
1.250	3.140	1.250	3.200	1.250	3.200	3.270	1.250	1.250	3.335	1.250	3.335
1.500	3.850	1.500	3.960	1.500	3.960	3.995	1.500	1.500	4.045	1.500	4.045
1.750	4.570	1.748	4.680	1.750	4.680	4.730	1.750	1.750	4.735	1.750	4.735
2.000	5.280	2.000	5.390	2.000	5.390	5.420	2.000	2.000	5.425	2.000	5.425
2.250	5.990	2.250	6.080	2.250	6.080	6.130	2.250	2.250	6.145	2.250	6.145
2.500	6.750	2.500	6.790	2.500	6.790	6.835	2.500	2.500	6.845	2.500	6.845
2.818	6.390	2.248	6.275	2.248	6.275	6.350	2.248	2.250	6.355	2.250	6.355
2.256	6.276	2.256	6.276	2.256	6.276	6.350	2.256	2.256	6.370	2.256	6.370
2.000	5.270	1.990	5.685	1.990	5.685	5.800	1.990	1.993	5.745	1.990	5.745
1.750	5.140	1.750	5.120	1.750	5.120	5.230	1.750	1.750	5.075	1.750	5.075
1.498	4.430	4.500	4.510	4.500	4.510	4.710	4.500	4.500	4.575	4.500	4.575
1.248	3.880	4.250	3.860	4.250	3.860	4.980	4.250	4.250	3.705	4.250	3.705
1.000	3.230	1.000	3.200	1.000	3.200	3.300	1.000	1.000	3.305	1.000	3.305

表—6—5 交番荷重試験 I , 2.5 U (続々)

SHIMIZU		AL=I=2.5U		ST.NO., DG=1		FMAX= 2,50 TON/PILE		40/2/24	
		1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
*0.745	*2,550	*0.750	*2,530	*0.750	*2,660	*0.748	*2,625		
*0.500	*1,840	*0.493	*1,800	*0.498	*1,950	*0,500	*1,925		
*0.243	*1,125	*0.253	*1,160	*0,250	*1,290	*0,255	*1,205		
0,	*0,515	0,	*0,430	0,	*0,540	0,	*0,525		

SHIMIZU	AL=I=3U	ST. NO. DG=1		FMAX= 3,000 TON/PILE		40/2/25	
		1 CYCLE		2 CYCLE		3 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0,	"0.140	0,	"0.425	0,	"0.520	0,	"0.375
0,250	0,410	0,248	0,245	0,260	0,255	0,248	0,350
0,500	1,060	0,503	0,980	0,503	0,985	0,500	1,070
0,750	1,750	0,748	0,680	0,746	1,730	0,750	1,760
1,000	2,440	0,995	2,415	1,003	2,490	1,000	2,525
1,250	3,185	1,250	3,140	1,250	3,185	1,250	3,265
1,500	3,845	1,198	3,820	1,253	3,905	1,493	3,945
1,748	4,555	1,750	4,515	1,733	4,595	1,750	4,710
2,000	5,245	1,985	5,210	2,003	5,385	2,003	5,440
2,253	5,960	2,235	5,920	2,250	6,030	2,250	6,145
2,498	6,635	2,500	6,660	2,493	6,720	2,498	6,825
2,750	7,335	2,748	7,370	2,753	7,480	2,748	7,535
3,000	8,090	3,000	8,075	2,998	8,225	3,003	8,255
2,875	7,890	2,875	7,900	2,868	7,945	2,825	8,095
2,753	7,635	2,730	7,570	2,748	7,720	2,750	7,950
2,500	7,125	2,493	7,065	2,500	7,200	2,500	7,305
2,250	6,545	2,255	6,535	2,250	6,610	2,250	6,715
2,003	5,965	2,003	5,955	2,000	6,015	1,998	6,115
1,750	5,345	1,755	5,320	1,750	5,395	1,750	5,510
1,500	4,115	5,510	4,720	1,508	4,775	1,503	4,870
1,250	4,075	1,258	4,065	1,258	4,145	1,250	4,210
1,000	3,935	3,008	3,400	1,005	3,445	1,003	3,515
0,750	2,735	0,750	2,695	0,750	2,755	0,750	2,825
0,500	2,015	0,510	2,015	0,503	2,045	0,498	2,100
0,253	1,995	0,250	1,245	0,250	1,310	0,250	1,380
0,	0,595	0,	0,535	0,	0,635	0,	0,645
0,	0,505	0,	0,485	0,	0,525	0,	0,550
0,	0,215	"0.250	"0.255	"0.253	"0.235	"0.250	"0.250
0,	0,925	"0.495	"0.960	"0.495	"0.925	"0.510	"0.500
0,	0,750	"0.750	"1,750	"0.750	"1,750	"0.750	"1,750
"1,000	"2,385	"0.995	"2,495	"1,000	"2,475	"1,000	"2,410
"1,250	"3,125	"1,253	"3,250	"1,253	"3,215	"1,248	"3,185
"1,503	"3,145	"1,498	"4,000	"1,198	"3,945	"1,900	"3,130
"1,750	"4,575	"1,755	"4,735	"1,750	"4,685	"1,750	"4,700
"2,000	"5,315	"2,000	"5,465	"2,000	"5,425	"2,000	"5,390
"2,250	"6,045	"2,253	"6,105	"2,250	"6,130	"2,243	"6,070
"2,500	"6,780	"2,498	"6,840	"2,500	"6,830	"2,498	"6,840
"2,750	"8,485	"2,753	"7,640	"2,753	"7,550	"2,753	"7,550
"3,000	"8,155	"2,993	"8,325	"3,008	"8,300	"2,993	"8,210
"2,875	"8,025	"2,500	"7,310	"2,875	"8,080	"2,865	"7,975

表-6-6 交番荷重試験 I, 3.0 U(続き)

SHIMIZU	AL=I=30	ST, NO., DG=1	FMAX# 3,00 TON/PILE			40/2/25		
			1 CYCLE		2 CYCLE		3 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
*2,750	*7,765	*2,248	*6,745	*2,748	*7,805	*2,760	*7,795	
*2,500	*7,165	*2,000	*6,70	*2,503	*7,220	*2,503	*7,180	
*2,250	*6,635	*1,750	*5,530	*2,253	*6,385	*2,253	*6,620	
*2,000	*6,345	*1,508	*4,930	*2,000	*6,100	*2,010	*6,040	
*1,750	*5,415	*1,248	*4,230	*1,750	*5,140	*1,750	*5,385	
*1,500	*4,790	*1,000	*3,545	*1,500	*4,815	*1,500	*4,735	
*1,243	*4,110	*0,753	*2,160	*1,248	*4,005	*1,248	*4,065	
*1,000	*3,435	*0,500	*2,115	*0,995	*3,000	*0,000	*3,365	
*0,750	*2,735	*0,230	*1,440	*0,753	*2,110	*0,748	*2,660	
*0,500	*2,010	0,	*0,670	*0,498	*1,665	*0,500	*1,965	
*0,250	*1,325			*0,250	*1,270	*0,255	*1,250	
0,	*0,525			0,	*0,490	0,	*0,490	

表-6-6 交番荷重試験 I, 3.0 U

SHIMIZU	AL=1.3, SU	ST. NO., DG=1	FMAX= 3,50 TON/PILE						40/2/25
			1 CYCLE		2 CYCLE		3 CYCLE		
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0,	*0,320	0,	*0,595	0,	-0,500	0,	-0,540	0,	-0,540
0,250	0,285	0,250	0,155	0,250	0,190	0,250	0,170	0,250	0,170
0,500	0,955	0,503	0,935	0,513	0,980	0,510	0,970	0,510	0,970
0,750	1,735	0,750	1,665	0,750	1,700	0,748	1,700	0,748	1,700
1,000	2,440	0,998	2,435	0,995	2,430	1,000	2,430	1,000	2,430
1,250	3,155	1,263	2,285	1,250	3,185	1,250	3,220	1,250	3,220
1,500	3,885	1,503	3,925	1,490	3,900	1,500	3,970	1,500	3,970
1,748	4,595	1,738	4,615	1,750	4,690	1,750	4,700	1,750	4,700
2,000	5,320	1,993	5,355	1,990	5,380	1,998	5,740	1,998	5,740
2,250	6,015	2,253	6,105	2,253	6,140	2,248	6,160	2,248	6,160
2,500	6,725	2,500	6,815	2,505	6,870	2,500	6,910	2,500	6,910
2,746	7,415	2,745	7,525	2,748	7,560	2,745	7,600	2,745	7,600
2,998	8,125	2,998	8,255	3,005	8,300	3,000	8,320	3,000	8,320
3,250	8,845	3,258	9,024	3,246	9,070	3,235	9,080	3,235	9,080
3,498	9,570	3,500	9,725	3,503	9,740	3,503	9,730	3,503	9,730
3,375	9,430	3,378	9,550	3,375	9,540	3,375	9,525	3,375	9,525
3,250	9,170	3,250	9,285	3,243	9,255	3,220	9,250	3,220	9,250
2,998	8,625	3,000	8,735	3,000	8,725	2,998	8,730	2,998	8,730
2,753	8,080	2,753	8,170	2,753	8,160	2,500	7,580	2,500	7,580
2,498	7,495	2,500	7,585	2,500	7,550	2,235	6,960	2,235	6,960
2,253	6,905	2,253	6,985	2,253	6,960	2,003	6,330	2,003	6,330
1,998	6,255	2,003	6,325	2,000	6,320	1,750	5,690	1,750	5,680
1,745	5,615	1,753	5,695	1,750	5,690	1,500	4,940	1,500	4,950
1,503	4,990	1,500	5,015	1,500	5,000	1,250	4,350	1,250	4,350
1,250	4,295	1,250	4,325	1,250	4,305	1,003	3,630	1,003	3,630
1,003	3,615	1,000	3,615	1,003	3,620	0,750	2,910	0,750	2,910
0,748	2,865	0,750	2,880	0,750	2,890	0,500	2,160	0,500	2,160
0,503	2,165	0,503	2,155	0,503	2,150	0,255	1,350	0,255	1,350
0,250	1,430	0,250	1,410	0,250	1,370	0,	0,560	0,	0,560
0,	0,725	0,	0,640	0,	0,650	0,	0,560	0,	0,560
0,	0,645	0,	0,540	0,	0,520	0,250	0,140	0,250	0,140
*0,250	*0,075	*0,255	*0,170	*0,152	*0,510	*0,495	*0,490	*0,495	*0,490
*0,500	*0,815	*0,498	*0,890	*0,500	*0,960	*0,750	*1,600	*0,750	*1,600
*0,750	*1,690	*0,750	*1,650	*0,750	*1,710	*1,243	*2,350	*1,243	*2,350
*1,000	*2,325	*1,003	*2,400	*1,008	*2,480	*1,243	*3,110	*1,243	*3,110
*1,250	*3,065	*1,250	*3,155	*1,253	*3,210	*1,250	*3,910	*1,250	*3,910
*1,500	*3,815	*1,503	*3,930	*1,498	*3,980	*1,760	*4,780	*1,760	*4,780
*1,750	*4,575	*1,750	*4,650	*1,750	*4,730	*2,000	*6,215	*2,000	*6,215
*2,000	*5,315	*1,993	*5,350	*2,000	*5,430	*2,250	*6,496	*2,250	*6,496
*2,250	*6,065	*2,250	*6,100	*2,250	*6,170	*2,250	*6,960	*2,250	*6,960

表 - 6 - 7 交番荷重試験 I, 3,5 U(続き)

表-6-7 交番荷重試験 I , 3.5 U

SHIMIZU	AL=I=3.5U	ST. NO.	DG=1	FMAX= 3,50 TON/PILE	40/2/25			
					1 CYCLE		2 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
*2,500	*6,735	*2,498	*6,815	*2,503	*6,910	*2,753	*7,595	
*2,750	*7,475	*2,753	*7,535	*2,756	*7,630	*2,998	*8,430	
*2,996	*8,195	*2,998	*8,250	*3,006	*8,340	*3,248	*9,110	
*3,250	*8,935	*3,253	*8,980	*3,253	*8,040	*3,496	*9,885	
*3,500	*9,700	*3,500	*9,710	*3,486	*9,740	*3,375	*9,685	
*3,665	*9,535	*3,375	*9,500	*3,376	*9,550	*3,250	*9,415	
*3,550	*6,195	*3,250	*9,230	*3,253	*9,290	*2,975	*8,825	
*3,003	*7,755	*3,003	*8,190	*3,000	*8,750	*2,753	*8,195	
*2,750	*8,165	*2,750	*8,045	*2,753	*8,180	*2,485	*7,635	
*2,198	*7,545	*2,475	*7,150	*2,500	*7,510	*2,446	*7,145	
*2,248	*6,975	*2,250	*6,900	*2,250	*6,955	*1,995	*6,385	
*2,000	*6,345	*2,000	*6,250	*1,998	*6,310	*1,743	*5,685	
*1,750	*5,695	*1,745	*5,190	*1,750	*5,600	*1,198	*4,935	
*1,500	*5,025	*1,500	*4,950	*1,500	*5,020	*1,248	*4,235	
*1,250	*4,295	*1,253	*4,260	*1,248	*4,200	*0,993	*3,515	
*1,000	*3,570	*1,003	*3,550	*1,000	*3,590	*0,746	*2,785	
*0,750	*2,865	*0,750	*2,820	*0,750	*2,870	*0,500	*2,085	
*0,500	*2,105	*0,495	*2,060	*0,500	*2,440	*0,250	*1,345	
*0,250	*1,385	*0,250	*1,360	*0,250	*1,410	0,	*0,615	
0,	*0,605	0,	*0,620	0,	*0,640	-	-	

SHIMIZU	AL=I=44U	ST, NO.	Dg=1	2 CYCLE				3 CYCLE				4 CYCLE			
				LOAD (TON)	DEFLECTION (CM)										
0, 0.253	*0, 0.280	0, 0.250	0, 0.250	0, 0.675	0, 0.250	0, 0.655	0, 0.250	0, 0.655	0, 0.250	0, 0.690	0, 0.690	0, 0.765	0, 0.75	0, 0.765	0, 0.75
0, 0.500	0, 0.330	0, 0.298	0, 0.498	0, 0.255	0, 0.250	0, 0.250	0, 0.250	0, 0.250	0, 0.250	0, 0.250	0, 0.250	0, 0.250	0, 0.250	0, 0.250	0, 0.250
0, 0.748	1, 0.700	0, 0.750	1, 0.750	1, 0.535	0, 0.750	1, 0.750	1, 0.750	1, 0.750	1, 0.750	1, 0.750	1, 0.750	1, 0.750	1, 0.750	1, 0.750	1, 0.750
1, 0.000	2, 0.240	1, 0.000	2, 0.285	1, 0.000	2, 0.285	1, 0.000	2, 0.285	1, 0.000	2, 0.285	1, 0.000	2, 0.285	1, 0.003	2, 0.285	1, 0.003	2, 0.285
1, 250	3, 180	1, 250	3, 065	1, 245	2, 940	1, 250	2, 940	1, 250	2, 940	1, 250	2, 940	1, 250	2, 940	1, 250	2, 940
1, 500	3, 180	1, 500	3, 805	1, 496	3, 705	1, 500	3, 705	1, 500	3, 705	1, 500	3, 705	1, 500	3, 705	1, 500	3, 705
1, 753	4, 630	1, 745	4, 535	1, 750	4, 455	1, 750	4, 455	1, 750	4, 455	1, 750	4, 455	1, 750	4, 455	1, 750	4, 455
2, 003	5, 360	2, 000	5, 275	2, 000	5, 205	2, 000	5, 205	2, 000	5, 205	2, 000	5, 205	2, 000	5, 205	2, 000	5, 205
2, 248	6, 080	2, 250	6, 005	2, 243	5, 925	2, 243	5, 925	2, 243	5, 925	2, 243	5, 925	2, 243	5, 925	2, 243	5, 925
2, 500	6, 790	2, 500	6, 745	2, 480	6, 640	2, 500	6, 640	2, 500	6, 640	2, 500	6, 640	2, 500	6, 640	2, 500	6, 640
2, 750	7, 585	2, 748	7, 465	2, 750	7, 370	2, 748	7, 370	2, 748	7, 370	2, 748	7, 370	2, 748	7, 370	2, 748	7, 370
3, 000	8, 230	3, 003	8, 205	3, 000	8, 100	3, 000	8, 100	3, 000	8, 100	3, 000	8, 100	3, 000	8, 100	3, 000	8, 100
3, 250	8, 940	3, 250	8, 925	3, 250	8, 250	3, 250	8, 250	3, 250	8, 250	3, 250	8, 250	3, 250	8, 250	3, 250	8, 250
3, 500	9, 710	3, 500	9, 605	3, 500	9, 560	3, 500	9, 560	3, 500	9, 560	3, 500	9, 560	3, 500	9, 560	3, 500	9, 560
3, 745	10, 410	3, 750	10, 355	3, 758	10, 360	3, 750	10, 360	3, 750	10, 360	3, 750	10, 360	3, 750	10, 360	3, 750	10, 360
4, 000	11, 120	4, 000	11, 095	4, 005	11, 095	4, 005	11, 095	4, 005	11, 095	4, 005	11, 095	4, 005	11, 095	4, 005	11, 095
3, 175	10, 955	3, 865	10, 855	3, 878	10, 880	3, 878	10, 880	3, 878	10, 880	3, 878	10, 880	3, 878	10, 880	3, 878	10, 880
3, 718	10, 640	3, 718	10, 555	3, 750	10, 645	3, 750	10, 645	3, 750	10, 645	3, 750	10, 645	3, 750	10, 645	3, 750	10, 645
3, 003	10, 190	3, 500	10, 105	3, 498	10, 095	3, 498	10, 095	3, 498	10, 095	3, 498	10, 095	3, 498	10, 095	3, 498	10, 095
3, 248	9, 655	3, 250	9, 595	3, 250	9, 455	3, 250	9, 455	3, 250	9, 455	3, 250	9, 455	3, 250	9, 455	3, 250	9, 455
2, 773	6, 390	2, 993	6, 915	3, 000	6, 945	3, 000	6, 945	3, 000	6, 945	3, 000	6, 945	3, 000	6, 945	3, 000	6, 945
2, 725	8, 280	2, 748	8, 335	2, 750	8, 370	2, 750	8, 370	2, 750	8, 370	2, 750	8, 370	2, 750	8, 370	2, 750	8, 370
2, 500	7, 745	2, 500	7, 745	2, 500	7, 745	2, 500	7, 745	2, 500	7, 745	2, 500	7, 745	2, 500	7, 745	2, 500	7, 745
2, 243	7, 065	2, 250	7, 105	2, 250	7, 105	2, 250	7, 105	2, 250	7, 105	2, 250	7, 105	2, 250	7, 105	2, 250	7, 105
2, 000	6, 465	2, 000	6, 445	2, 003	6, 445	2, 003	6, 445	2, 003	6, 445	2, 003	6, 445	2, 003	6, 445	2, 003	6, 445
1, 750	5, 825	1, 750	5, 765	1, 750	5, 755	1, 750	5, 755	1, 750	5, 755	1, 750	5, 755	1, 750	5, 755	1, 750	5, 755
1, 500	5, 105	1, 493	5, 125	1, 508	5, 125	1, 508	5, 125	1, 508	5, 125	1, 508	5, 125	1, 508	5, 125	1, 508	5, 125
1, 250	4, 445	1, 253	4, 425	1, 253	4, 405	1, 253	4, 405	1, 253	4, 405	1, 253	4, 405	1, 253	4, 405	1, 253	4, 405
1, 003	3, 725	1, 003	3, 705	1, 003	3, 695	1, 003	3, 695	1, 003	3, 695	1, 003	3, 695	1, 003	3, 695	1, 003	3, 695
0, 750	2, 965	0, 753	2, 915	0, 753	2, 915	0, 753	2, 915	0, 753	2, 915	0, 753	2, 915	0, 753	2, 915	0, 753	2, 915
0, 500	2, 250	0, 500	2, 215	0, 503	2, 195	0, 503	2, 195	0, 503	2, 195	0, 503	2, 195	0, 503	2, 195	0, 503	2, 195
0, 250	1, 455	0, 250	1, 395	0, 250	1, 395	0, 250	1, 395	0, 250	1, 395	0, 250	1, 395	0, 250	1, 395	0, 250	1, 395
0,	0, 735	0,	0, 735	0,	0, 735	0,	0, 735	0,	0, 735	0,	0, 735	0,	0, 735	0,	0, 735
0,	0, 635	0,	0, 635	0,	0, 635	0,	0, 635	0,	0, 635	0,	0, 635	0,	0, 635	0,	0, 635
*0, 258	*0, 065	*0, 250	*0, 135	*0, 255	*0, 355	*0, 255	*0, 355	*0, 255	*0, 355	*0, 255	*0, 355	*0, 255	*0, 355	*0, 255	*0, 355
*0, 490	*0, 715	*0, 500	*0, 855	*0, 500	*1, 005	*0, 500	*1, 005	*0, 500	*1, 005	*0, 500	*1, 005	*0, 500	*1, 005	*0, 500	*1, 005
*0, 750	*1, 525	*0, 743	*1, 635	*0, 743	*1, 748	*0, 743	*1, 748	*0, 743	*1, 748	*0, 743	*1, 748	*0, 743	*1, 748	*0, 743	*1, 748
*1, 250	*3, 035	*1, 000	*2, 125	*1, 000	*2, 575	*1, 000	*2, 575	*1, 000	*2, 575	*1, 000	*2, 575	*1, 000	*2, 575	*1, 000	*2, 575
*1, 500	*3, 845	*1, 253	*3, 195	*1, 253	*3, 375	*1, 253	*3, 375	*1, 253	*3, 375	*1, 253	*3, 375	*1, 253	*3, 375	*1, 253	*3, 375

表-6-8 交番荷重試験 I, 4.0 U

SHIMIZU	$A_L=I=U$	ST, NO., DG=1	FMAX= 4,00 TON/PILE			40/2/26		
			1 CYCLE	2 CYCLE	LOAD DEFLECTION (TON) (CM)	LOAD DEFLECTION (TON) (CM)	LOAD DEFLECTION (TON) (CM)	LOAD DEFLECTION (TON) (CM)
"1,750	"4,555	"1,500	"4,055	"1,500	"1,025	"1,508	"4,240	
"2,000	"5,305	"1,750	"4,765	"1,760	"4,985	"1,758	"4,980	
"2,250	"6,050	"2,000	"5,345	"2,003	"5,955	"2,003	"5,690	
"2,500	"6,765	"2,248	"6,225	"2,258	"6,365	"2,250	"6,430	
"2,750	"7,485	"2,503	"6,955	"2,508	"7,075	"2,500	"7,120	
"3,008	"8,275	"2,753	"7,705	"2,753	"7,795	"2,750	"7,880	
"3,258	"8,965	"3,003	"8,435	"3,003	"8,555	"3,000	"8,580	
"3,500	"9,725	"3,48	"9,125	"3,253	"9,205	"3,250	"9,300	
"3,750	"10,435	"3,500	"9,975	"3,495	"9,05	"3,500	"10,060	
"4,000	"11,225	"3,750	"10,635	"3,755	"10,85	"3,748	"10,770	
"3,638	"10,945	"4,000	"11,395	"4,003	"11,465	"4,000	"11,590	
"3,750	"10,795	"3,608	"10,515	"3,800	"11,405	"3,870	"11,450	
"3,500	"10,235	"3,500	"10,345	"3,743	"11,35	"3,750	"11,190	
"3,250	"9,675	"3,253	"9,775	"3,500	"11,195	"3,486	"10,610	
"3,000	"9,105	"3,003	"9,195	"3,253	"10,005	"3,250	"10,050	
"2,753	"8,515	"2,750	"8,585	"3,008	"9,135	"3,000	"9,480	
"2,498	"7,875	"2,500	"7,935	"2,750	"8,815	"2,748	"8,860	
"2,288	"7,205	"2,250	"7,315	"2,508	"8,195	"2,498	"8,190	
"1,996	"6,575	"2,000	"6,665	"2,248	"7,445	"2,245	"7,560	
"1,763	"5,945	"1,750	"6,005	"1,995	"6,895	"2,000	"6,920	
"1,500	"5,235	"1,500	"5,300	"1,750	"6,215	"1,748	"6,280	
"1,245	"4,485	"1,248	"4,555	"1,508	"5,555	"1,500	"5,530	
"0,998	"3,795	"1,000	"3,955	"1,554	"4,805	"1,250	"4,830	
"0,750	"3,045	"0,750	"3,105	"0,998	"4,065	"0,995	"4,075	
"0,498	"2,265	"0,500	"2,355	"0,745	"3,275	"0,750	"3,360	
"0,250	"1,545	"0,253	"1,655	"0,500	"2,555	"0,490	"2,560	
0,	"0,755	0,	"0,915	"0,250	"1,785	"0,250	"1,840	
			0,	"0,910	0,	0,	"0,890	

SHIMIZU	AL=1.3D	ST.NO.	UG=1	2 CYCLE				3 CYCLE				4 CYCLE			
				LOAD (TON)	DEFLECTION (CM)										
0,	*0.430	0,	*0.450	0,	*0.460	0,	*0.460	0,	*0.460	0,	*0.460	0,	*0.520	0,	*0.520
0,250	0,200	0,	0,250	0,250	0,270	0,250	0,250	0,250	0,250	0,250	0,250	0,250	0,250	0,250	0,250
0,500	0,890	0,	0,505	0,505	1,030	0,515	1,060	0,515	1,060	0,515	1,060	0,515	1,060	0,515	1,060
0,750	1,620	0,	0,750	0,750	1,660	0,748	1,760	0,748	1,760	0,748	1,760	0,748	1,760	0,748	1,760
1,003	2,385	1,	1,003	2,540	1,006	1,006	1,006	1,006	1,006	1,006	1,006	1,006	1,006	1,006	1,006
1,250	3,100	1,	1,250	3,260	1,253	3,200	1,253	3,200	1,253	3,200	1,253	3,200	1,253	3,200	1,253
1,500	3,860	1,	1,498	3,960	1,500	3,960	1,500	3,960	1,500	3,960	1,500	3,960	1,500	3,960	1,500
1,750	4,600	1,	1,750	4,720	1,750	4,720	1,750	4,720	1,750	4,720	1,750	4,720	1,750	4,720	1,750
2,000	5,360	2,	2,000	5,430	2,000	5,430	2,000	5,430	2,000	5,430	2,000	5,430	2,000	5,430	2,000
2,248	6,040	2,	2,250	6,160	2,250	6,160	2,250	6,160	2,250	6,160	2,250	6,160	2,250	6,160	2,250
2,498	6,760	2,	2,505	6,890	2,500	6,850	2,500	6,850	2,500	6,850	2,500	6,850	2,500	6,850	2,500
2,748	7,500	2,	2,750	7,560	2,750	7,560	2,750	7,560	2,750	7,560	2,750	7,560	2,750	7,560	2,750
3,000	8,220	2,	2,998	8,250	3,005	8,260	3,005	8,260	3,005	8,260	3,005	8,260	3,005	8,260	3,005
2,875	8,040	2,	2,875	8,070	2,875	8,075	2,875	8,075	2,875	8,075	2,875	8,075	2,875	8,075	2,875
2,753	7,770	2,	2,753	7,820	2,750	7,820	2,750	7,820	2,750	7,820	2,750	7,820	2,750	7,820	2,750
2,500	7,220	2,	2,500	7,260	2,500	7,260	2,500	7,260	2,500	7,260	2,500	7,260	2,500	7,260	2,500
2,250	6,640	2,	2,248	6,660	2,250	6,660	2,250	6,660	2,250	6,660	2,250	6,660	2,250	6,660	2,250
2,003	6,050	2,	1,998	6,060	1,998	6,060	1,998	6,060	1,998	6,060	1,998	6,060	1,998	6,060	1,998
1,748	5,410	1,	1,750	5,450	1,750	5,450	1,750	5,450	1,750	5,450	1,750	5,450	1,750	5,450	1,750
1,500	4,770	1,	4,500	4,790	4,790	4,790	4,790	4,790	4,790	4,790	4,790	4,790	4,790	4,790	4,790
1,253	4,220	1,	4,250	4,140	4,250	4,140	4,250	4,140	4,250	4,140	4,250	4,140	4,250	4,140	4,250
1,003	3,440	1,	3,000	3,440	3,000	3,440	3,000	3,440	3,000	3,440	3,000	3,440	3,000	3,440	3,000
0,750	2,730	0,	0,753	2,740	0,750	2,740	0,750	2,740	0,750	2,740	0,750	2,740	0,750	2,740	0,750
0,505	2,010	0,	0,500	2,030	0,500	2,030	0,500	2,030	0,500	2,030	0,500	2,030	0,500	2,030	0,500
0,250	1,240	0,	0,250	1,260	0,250	1,260	0,250	1,260	0,250	1,260	0,250	1,260	0,250	1,260	0,250
0,	0,500	0,	0,	0,510	0,	0,510	0,	0,510	0,	0,510	0,	0,510	0,	0,510	0,
0,	0,430	0,	0,	0,430	0,	0,430	0,	0,430	0,	0,430	0,	0,430	0,	0,430	0,
0,250	0,280	0,	0,250	0,360	0,250	0,360	0,250	0,360	0,250	0,360	0,250	0,360	0,250	0,360	0,250
0,503	0,290	0,	0,503	0,160	0,503	0,160	0,503	0,160	0,503	0,160	0,503	0,160	0,503	0,160	0,503
0,750	1,760	0,	0,748	1,920	0,750	1,920	0,750	1,920	0,750	1,920	0,750	1,920	0,750	1,920	0,750
*1,008	*2,520	*1,	*1,003	*2,660	*1,000	*2,660	*1,000	*2,660	*1,000	*2,660	*1,000	*2,660	*1,000	*2,660	*1,000
*1,250	*3,220	*1,	*3,220	*3,420	*1,250	*3,420	*1,250	*3,420	*1,250	*3,420	*1,250	*3,420	*1,250	*3,420	*1,250
*1,500	*3,900	*1,	*3,500	*4,190	*1,500	*4,190	*1,500	*4,190	*1,500	*4,190	*1,500	*4,190	*1,500	*4,190	*1,500
*1,753	*4,760	*1,	*4,750	*4,930	*1,750	*4,930	*1,750	*4,930	*1,750	*4,930	*1,750	*4,930	*1,750	*4,930	*1,750
*2,000	*5,440	*2,	*2,000	*5,650	*2,000	*5,650	*2,000	*5,650	*2,000	*5,650	*2,000	*5,650	*2,000	*5,650	*2,000
*2,250	*6,200	*2,	*6,250	*6,370	*2,248	*6,370	*2,248	*6,370	*2,248	*6,370	*2,248	*6,370	*2,248	*6,370	*2,248
*2,503	*6,910	*2,	*2,503	*7,100	*2,500	*7,100	*2,500	*7,100	*2,500	*7,100	*2,500	*7,100	*2,500	*7,100	*2,500
*2,750	*7,530	*2,	*2,750	*7,810	*2,750	*7,810	*2,750	*7,810	*2,750	*7,810	*2,750	*7,810	*2,750	*7,810	*2,750
*2,993	*8,350	*3,000	*8,530	*8,650	*3,003	*8,650	*3,003	*8,650	*3,003	*8,650	*3,003	*8,650	*3,003	*8,650	*3,003
*2,870	*8,120	*2,870	*2,870	*2,875	*2,870	*2,875	*2,870	*2,875	*2,870	*2,875	*2,870	*2,875	*2,870	*2,875	*2,870

表-6-9 交番荷重試験 I, 3.0 D(続き)

SHIMIZU	AL=I=3D	ST, NO., DG=1	FMAX= 3,000 TON/PILE		40/2/27		
			1 CYCLE	2 CYCLE	3 CYCLE	4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
*2,748	*7,860	*2,770	*8,080	*2,748	*8,130	*2,748	*7,980
*2,498	*7,280	*2,798	*7,380	*2,498	*7,550	*2,498	*7,400
*2,250	*6,710	*2,250	*6,920	*2,250	*6,980	*2,250	*6,850
*2,003	*6,110	*2,000	*6,310	*2,000	*6,380	*2,000	*6,230
*1,750	*5,470	*1,750	*5,770	*1,750	*5,710	*1,750	*5,570
*1,500	*4,810	*1,500	*5,010	*1,503	*5,070	*1,500	*4,920
*1,250	*4,090	*1,248	*4,280	*1,243	*4,350	*1,250	*4,200
*0,998	*3,390	*1,003	*3,600	*1,003	*3,670	*1,000	*3,520
*0,755	*2,690	*0,750	*2,970	*0,750	*2,930	*0,750	*2,890
*0,500	*1,840	*0,500	*2,120	*0,500	*2,110	*0,500	*2,120
*0,250	*1,200	*0,250	*1,400	*0,246	*1,430	0,248	*1,400
0,	*0,540	0,	*0,540	0,	*0,550	0,	*0,550

表-6-9 交番荷重試験 I, 3.0 D

ST. NO.	D <small>G</small> -1	F <small>MAX</small> = 2,00 TON/PILE				4 CYCLE	
		1 CYCLE	2 CYCLE	3 CYCLE	LOAD DEFLECTION (TON)	LOAD DEFLECTION (TON)	LOAD DEFLECTION (TON)
SHINZU	A <small>L</small> =120	LOAD DEFLECTION (TON) (CM)	LOAD DEFLECTION (TON) (CM)	LOAD DEFLECTION (TON) (CM)	LOAD DEFLECTION (TON) (CM)	LOAD DEFLECTION (TON) (CM)	LOAD DEFLECTION (TON) (CM)
0.	+0.300	0.	+0.340	0.	+0.330	0.	+0.370
0.250	0.310	0.250	+0.360	0.250	+0.370	0.246	0.300
0.500	1.010	0.498	1.110	0.500	1.110	0.500	1.150
0.750	1.750	0.760	1.870	0.750	1.830	0.750	1.840
1.000	2.490	1.000	2.590	0.995	2.630	1.005	2.540
1.250	3.210	1.250	3.330	1.250	3.260	1.250	3.220
1.500	3.940	1.508	4.040	1.500	3.980	1.500	3.950
1.750	4.660	1.750	4.750	1.750	4.670	1.750	4.650
2.000	5.400	2.000	5.450	2.003	5.390	2.000	5.340
2.473	5.170	1.875	5.210	1.878	5.140	1.875	5.130
1.750	4.900	1.750	4.950	1.750	4.880	1.748	4.850
1.500	4.320	1.500	4.370	1.500	4.310	1.498	4.280
1.250	3.720	1.250	3.760	1.250	3.700	1.250	3.670
1.003	3.090	1.000	3.130	1.000	3.060	1.000	3.050
0.745	2.400	0.750	2.460	0.750	2.400	0.750	2.380
0.500	1.740	0.503	1.770	0.500	1.720	0.500	1.700
0.250	1.030	0.250	1.160	0.253	1.010	0.250	0.970
0.	0.340	0.	0.350	0.	0.310	0.	0.280
0.	0.270	0.	0.280	0.	0.250	0.	0.220
+0.250	+0.510	+0.250	+0.460	+0.250	+0.470	+0.250	+0.510
+0.500	+1.240	+0.500	+1.170	+0.495	+1.200	+0.500	+1.230
+0.750	+1.980	+0.750	+1.330	+0.750	+1.970	+0.750	+2.000
+1.000	+2.730	+1.080	+2.690	+1.000	+2.690	+1.005	+2.660
+1.250	+3.510	+1.250	+3.510	+1.250	+3.450	+1.250	+3.470
+1.503	+4.280	+1.498	+4.170	+1.500	+4.200	+1.500	+4.240
+1.750	+4.980	+1.750	+4.920	+1.750	+4.970	+1.750	+5.020
+2.000	+5.700	+2.000	+5.200	+2.000	+5.670	+2.005	+5.730
+1.875	+5.470	+1.873	+5.390	+1.875	+5.440	+1.875	+5.460
+1.748	+5.180	+1.740	+5.120	+1.748	+5.250	+1.750	+5.180
+1.498	+4.580	+1.500	+4.520	+1.505	+4.550	+1.495	+4.580
+1.250	+3.950	+1.250	+3.080	+1.250	+3.920	+1.250	+3.950
+1.000	+3.300	+0.995	+3.210	+1.000	+3.270	+1.000	+3.190
+0.610	+0.748	+0.748	+2.530	+0.750	+2.580	+0.748	+2.590
+1.920	+1.920	+0.503	+1.150	+0.498	+1.870	+0.500	+1.880
+0.250	+1.210	+0.250	+1.140	+0.250	+1.180	+0.250	+1.180
0.	+0.410	0.	+0.380	0.	+0.440	0.	+0.500

表-6-11 交番荷重試験 I, 1.0 D

SHIMIZU	AL=1.0	ST. NO. DG=1		FHAX= 1.00 TON/PILE		40/2/28
		LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
1 CYCLE						2 CYCLE
0,	"0,100	0,	"0,130	0,	"0,130	
0,125	"0,150	0,125	"0,180	0,125	"0,180	
0,250	"0,460	0,250	"0,510	0,250	"0,510	
0,375	"0,820	0,375	"0,850	0,375	"0,850	
0,500	"1,170	0,455	"1,220	0,455	"1,220	
0,625	"1,510	0,625	"1,590	0,625	"1,590	
0,750	"1,880	0,750	"1,920	0,750	"1,920	
0,875	"2,210	0,875	"2,250	0,875	"2,250	
1,000	"2,610	1,000	"2,620	1,000	"2,620	
0,138	"2,510	0,925	"2,480	0,925	"2,480	
0,870	"2,380	0,870	"2,350	0,870	"2,350	
0,745	"2,080	0,753	"2,090	0,753	"2,090	
0,625	"1,790	0,625	"1,790	0,625	"1,790	
0,498	"1,480	0,500	"1,450	0,500	"1,450	
0,383	"1,180	0,383	"1,150	0,383	"1,150	
0,255	"0,810	0,263	"0,810	0,263	"0,810	
0,125	"0,480	0,130	"0,460	0,130	"0,460	
0,	"0,170	0,	"0,120	0,	"0,120	
0,	"0,110	0,	"0,070	0,	"0,070	
"0,125	"0,190	"0,138	"0,260	"0,138	"0,260	
"0,250	"0,560	"0,250	"0,560	"0,250	"0,560	
"0,375	"0,870	"0,375	"0,880	"0,375	"0,880	
"0,500	"1,230	"0,00	"1,220	"0,00	"1,220	
"0,625	"1,530	"0,640	"1,590	"0,640	"1,590	
"0,745	"1,910	"0,750	"1,880	"0,750	"1,880	
"0,870	"2,290	"0,875	"2,250	"0,875	"2,250	
"1,000	"2,650	"1,000	"2,570	"1,000	"2,570	
"0,933	"2,540	"0,35	"2,460	"0,35	"2,460	
"0,875	"2,410	"0,173	"2,350	"0,173	"2,350	
"0,750	"2,140	"0,748	"2,040	"0,748	"2,040	
"0,625	"1,830	"0,625	"1,740	"0,625	"1,740	
"0,500	"1,520	"0,500	"1,440	"0,500	"1,440	
"0,383	"1,160	"0,375	"1,120	"0,375	"1,120	
"0,250	"0,940	"0,250	"0,820	"0,940	"0,820	
"0,138	"0,590	"0,145	"0,490	"0,145	"0,490	
0,	"0,190	0,	"0,150	0,	"0,150	

表-7-1 交番荷重試験 II, 1.0 U

SHIMIZU	AL-II-2U	ST.NO.	DG#1	FMAX= 2,000 TON/PILE				40/3/7			
				1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.	=0.130	0,	=0.265	0,	=0.250	0,	=0.250	0,	=0.270	0,	=0.270
0.250	0.190	0.250	0.465	0.250	0.470	0.250	0.470	0.250	0.450	0.250	0.450
0.500	1.200	0.503	1.195	0.500	1.210	0.500	1.210	0.500	1.200	0.500	1.200
0.750	1.880	0.750	1.915	0.750	1.940	0.750	1.940	0.750	1.930	0.750	1.930
1.000	2.570	1.000	2.615	1.000	2.640	1.000	2.640	1.000	2.650	1.000	2.650
1.250	3.260	1.250	3.310	1.250	3.360	1.250	3.360	1.250	3.360	1.250	3.360
1.500	3.940	1.498	3.980	1.500	4.070	1.500	4.070	1.500	4.070	1.500	4.070
1.748	4.610	1.750	4.680	1.750	4.750	1.750	4.750	1.750	4.780	1.750	4.780
1.998	5.110	2.000	5.360	2.000	5.420	2.000	5.420	2.000	5.440	2.000	5.440
1.875	5.080	1.878	5.145	1.878	5.170	1.878	5.170	1.878	5.260	1.878	5.260
1.750	4.830	1.753	4.890	1.753	4.930	1.753	4.930	1.753	4.980	1.753	4.980
1.500	4.365	1.503	4.320	1.503	4.350	1.503	4.350	1.503	4.390	1.503	4.390
1.263	3.665	1.250	3.710	1.245	3.730	1.245	3.730	1.245	3.790	1.245	3.790
1.006	3.920	1.006	3.080	1.006	3.120	1.006	3.120	1.006	3.140	1.006	3.140
0.750	2.370	0.750	2.400	0.750	2.440	0.750	2.440	0.750	2.450	0.750	2.450
0.503	1.675	0.500	1.700	0.500	1.720	0.500	1.720	0.500	1.720	0.500	1.720
0.250	0.950	0.250	0.990	0.250	0.980	0.250	0.980	0.250	0.980	0.250	0.980
0,	0.245	0,	0.310	0,	0.320	0,	0.320	0,	0.310	0,	0.310
0,	0.195	0,	0.220	0,	0.220	0,	0.220	0,	0.230	0,	0.230
=0.250	=0.425	=0.248	=0.490	=0.250	=0.470	=0.250	=0.470	=0.250	=0.500	=0.250	=0.500
*0.503	*1.265	*0.500	*1.230	*0.500	*1.210	*0.500	*1.210	*0.503	*1.250	*0.503	*1.250
*0.750	*1.960	*0.750	*1.930	*0.750	*1.960	*0.750	*1.960	*0.750	*1.980	*0.750	*1.980
*1.000	*2.645	*1.000	*2.670	*1.000	*2.660	*1.000	*2.660	*1.000	*2.720	*1.000	*2.720
*1.250	*3.345	*1.250	*3.360	*1.250	*3.370	*1.250	*3.370	*1.250	*3.450	*1.250	*3.450
*1.508	*4.055	*1.500	*4.000	*1.500	*4.100	*1.500	*4.100	*1.500	*4.140	*1.500	*4.140
*1.750	*4.715	*1.748	*4.760	*1.750	*4.780	*1.750	*4.780	*1.750	*4.840	*1.750	*4.840
*2.004	*5.420	*2.000	*5.550	*2.000	*5.400	*2.000	*5.400	*2.000	*5.540	*2.000	*5.540
*1.875	*5.185	*1.875	*5.330	*1.875	*5.200	*1.875	*5.200	*1.875	*5.300	*1.875	*5.300
*1.738	*4.905	*1.745	*4.950	*1.745	*4.900	*1.745	*4.900	*1.745	*4.940	*1.745	*4.940
*1.503	*4.375	*1.500	*4.385	*1.500	*4.300	*1.500	*4.300	*1.500	*4.350	*1.500	*4.350
*1.250	*3.775	*1.250	*3.780	*1.250	*3.800	*1.250	*3.800	*1.250	*3.840	*1.250	*3.840
*1.000	*3.145	*1.000	*3.140	*1.000	*3.170	*1.000	*3.170	*1.003	*3.190	*1.003	*3.190
*0.750	*2.485	*0.750	*2.775	*0.750	*2.743	*0.750	*2.743	*0.748	*2.490	*0.748	*2.490
*0.503	*1.805	*0.505	*1.780	*0.505	*1.780	*0.505	*1.780	*0.500	*1.770	*0.500	*1.770
*0.253	*1.050	*0.253	*1.030	*0.253	*1.060	*0.253	*1.060	*0.250	*1.070	*0.250	*1.070
0,	*0.355	0,	*0.280	0,	*0.350	0,	*0.350	0,	*0.350	0,	*0.350

表-7-2 爪番荷重試験 II, 2.0 U

SHIMIZU	AL=II-3U	ST.NO. DG=1		FMAX= 3,000 TON/PILE		40/3/8	
		1 CYCLE	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.	"0,180	0,	"0,450	0,	"0,420	0,	"0,430
0,250	0,380	0,250	0,220	0,250	0,260	0,250	0,180
0,500	1,100	0,500	0,970	0,500	1,010	0,500	0,B90
0,750	1,780	0,750	1,710	0,750	1,750	0,750	1,620
1,000	2,510	1,008	2,460	1,000	2,510	1,000	2,340
1,250	3,220	1,250	3,170	1,250	3,270	1,250	3,090
1,500	3,940	1,700	3,880	1,500	3,910	1,500	3,830
1,750	4,650	1,745	4,630	1,745	4,710	1,750	4,550
2,000	5,350	2,000	5,380	2,000	5,440	2,000	5,260
2,250	6,040	2,250	6,090	2,250	6,140	2,250	5,970
2,500	6,750	2,500	6,780	2,500	6,840	2,500	6,660
2,750	7,440	2,753	7,480	2,750	7,530	2,750	7,350
3,000	8,150	3,000	8,170	3,000	8,220	3,000	8,030
2,875	7,940	2,875	7,950	2,875	8,020	2,875	7,840
2,750	7,680	2,750	7,690	2,750	7,750	2,750	7,560
2,500	7,130	2,500	7,150	2,500	7,190	2,500	7,010
2,250	6,540	2,553	6,570	2,250	6,600	2,250	6,450
2,000	5,940	2,000	5,950	1,998	5,980	1,998	5,820
1,750	5,320	1,750	5,320	1,750	5,340	1,750	5,210
1,500	4,670	1,500	4,670	1,500	4,710	1,500	4,560
1,250	3,990	1,250	4,000	1,250	4,020	1,250	3,900
1,000	3,300	1,003	3,340	1,003	3,350	1,000	3,210
0,750	2,600	0,750	2,630	0,750	2,640	0,750	2,520
0,500	1,850	0,500	1,860	0,500	1,900	0,503	1,800
0,250	1,120	0,250	1,090	0,250	1,150	0,250	1,050
0,	0,370	0,	0,400	0,	0,450	0,	0,370
0,	0,360	0,	0,370	0,	0,390	0,	0,290
"0,250	"0,300	"0,250	"0,310	"0,250	"0,370	"0,250	"0,390
"0,500	"1,010	"0,503	"1,050	"0,500	"1,130	"0,500	"1,140
"0,750	"1,760	"0,750	"1,800	"0,750	"1,860	"0,750	"1,900
"1,000	"2,520	"1,000	"2,530	"1,000	"2,620	"1,000	"2,610
"1,250	"3,220	"1,253	"3,270	"1,250	"3,370	"1,250	"3,360
"1,500	"4,680	"1,750	"4,700	"1,750	"4,800	"1,750	"4,830
"2,000	"5,410	"2,000	"5,410	"2,000	"5,510	"2,000	"5,530
"2,250	"6,110	"2,250	"6,140	"2,250	"6,130	"2,250	"6,230
"2,500	"6,810	"2,500	"6,860	"2,500	"6,930	"2,500	"6,960
"2,755	"7,530	"2,750	"7,570	"2,748	"7,640	"2,750	"7,640
"3,003	"8,200	"3,000	"8,260	"3,000	"8,370	"3,000	"8,350
"2,875	"8,030	"2,875	"8,020	"2,868	"8,130	"2,875	"8,120

表-7-3 交番荷重試験 II, 3.0 U(続き)

SHIMIZU	$A_L = II \cdot 3U$	ST, NO., DG=1		FMAX = 3,00 TON/PILE		40/3/8	
		1 CYCLE	2 CYCLE	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
*2,750	*7,780	*2,743	*7,750	*2,750	*7,380	*2,750	*7,850
*2,463	*7,140	*2,500	*7,240	*2,500	*7,320	*2,498	*7,280
*2,248	*6,640	*2,250	*6,120	*2,250	*6,740	*2,250	*6,700
*6,030	*6,030	*2,000	*6,020	*2,000	*6,110	*2,000	*6,100
*1,993	*5,420	*1,750	*5,410	*1,750	*5,490	*1,750	*5,470
*1,750							
*1,500	*4,780	*1,498	*4,740	*1,500	*4,980	*1,500	*4,820
*1,250	*4,130	*1,250	*4,070	*1,250	*4,170	*1,250	*4,150
*1,000	*3,420	*1,000	*3,380	*1,000	*3,450	*1,000	*3,440
*0,750	*2,700	*0,750	*2,680	*0,748	*2,750	*0,760	*2,770
*0,503	*1,990	*0,500	*1,930	*0,503	*2,050	*0,500	*2,020
*0,255	*1,250	*0,250	*1,190	*0,250	*1,270	*0,250	*1,280
0,	*0,550	0,	*0,510	0,	*0,570	0,	*0,590

表-7-3 交番荷重試験 II, 3.0 U

SHIMIZU	AL=II=4U	ST.NO. DG=1		FMAX= 4,00 TON/PILE		40/3/9	
		1 CYCLE		2 CYCLE		3 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.	*0,250	0.	*0,580	0,*250	0,250	*0,390	0,*620
0,250	0,340	0,250	0,660	0,250	0,200	0,250	0,110
0,496	1,000	0,503	0,810	0,500	0,880	0,500	0,800
0,748	1,750	0,750	1,580	0,750	1,640	0,750	1,580
1,000	2,470	1,000	2,320	0,993	2,390	1,000	2,400
1,245	3,210	1,250	3,050	1,248	3,150	1,256	3,100
1,503	3,960	1,498	3,790	1,498	3,840	1,500	3,950
1,750	4,700	1,748	4,510	1,748	4,560	1,750	4,600
2,000	5,120	2,000	5,280	1,993	5,280	2,000	5,320
2,250	6,130	2,250	5,970	2,248	6,040	2,248	6,160
2,498	6,800	2,500	6,710	2,500	6,780	2,500	6,770
2,753	7,520	2,753	7,390	2,750	7,480	2,750	7,480
3,005	8,220	3,000	8,100	2,996	8,240	3,000	8,200
3,248	8,410	3,253	8,800	3,250	8,950	3,248	8,880
3,503	9,610	3,503	9,510	3,498	9,650	3,498	9,570
3,750	10,310	3,750	10,200	3,750	10,340	3,750	10,260
4,003	11,010	4,000	10,880	4,000	11,140	4,000	10,960
3,873	10,820	3,875	10,660	3,875	10,860	3,875	10,770
3,750	10,580	3,748	10,410	3,750	10,610	3,750	10,480
3,503	10,040	3,500	9,900	3,500	10,080	3,500	9,880
3,253	9,490	3,250	9,350	3,250	9,510	3,250	9,440
2,996	8,990	3,000	8,770	2,998	8,930	3,000	8,430
2,750	8,290	2,750	8,160	2,750	8,320	2,748	8,240
2,500	7,690	2,500	7,540	2,500	7,730	2,500	7,630
2,253	7,030	2,250	6,930	2,248	7,070	2,253	6,990
2,000	6,410	2,000	6,270	1,998	6,420	2,000	6,240
1,750	5,440	1,753	5,650	1,750	5,780	1,750	5,610
1,503	5,050	5,000	4,950	1,503	5,100	1,500	4,910
1,250	4,740	1,250	4,250	1,250	4,430	1,250	4,200
1,000	3,950	1,000	3,520	1,003	3,710	1,000	3,490
0,750	2,910	0,750	2,800	0,748	2,960	0,748	2,690
0,503	2,150	0,500	2,050	0,500	2,200	0,503	2,000
0,253	1,390	0,250	1,300	0,250	1,450	0,250	1,240
0,	0,	0,	0,	0,	0,	0,	0,
0,	0,600	,	0,480	0,	0,520	0,	0,360
*0,248	*0,100	*0,250	*0,220	*0,248	*0,150	*0,250	*0,310
*0,500	*0,850	*0,503	*1,010	*0,500	*0,930	*0,503	*1,100
*0,750	*1,640	*0,750	*1,760	*0,748	*1,690	*0,750	*1,700
*1,000	*2,380	*1,000	*2,460	*1,000	*2,410	*1,000	*2,650
*3,140	*3,253	*3,140	*3,280	*3,180	*3,125	*3,125	*3,590

表-7-4 支番荷重試験 II, 4.0 U(続き)

SHIMIZU	AL-II-4U	1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
		LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
"1.498	"5.850	"1.500	"3.990	"1.500	"3.920	"1.503	"4.190	"1.503	"4.190
"1.750	"4.10	"1.753	"4.740	"1.748	"4.660	"1.750	"4.900	"1.750	"4.900
"1.998	"5.350	"1.998	"5.460	"2.003	"5.400	"2.003	"5.390	"2.003	"5.390
"2.253	"6.080	"2.248	"6.150	"2.248	"6.140	"2.253	"6.440	"2.253	"6.440
"2.500	"6.620	"2.498	"6.880	"2.498	"6.860	"2.500	"7.140	"2.500	"7.140
"2.753	"7.500	"2.753	"7.620	"2.753	"7.590	"2.753	"7.810	"2.753	"7.810
"3.003	"8.200	"2.998	"8.270	"2.995	"8.320	"2.998	"8.470	"2.998	"8.470
"3.248	"8.680	"3.250	"8.990	"3.248	"9.030	"3.253	"9.220	"3.253	"9.220
"3.500	"9.640	"3.503	"9.740	"3.498	"9.710	"3.500	"9.910	"3.500	"9.910
"3.750	"10.760	"3.750	"10.450	"3.750	"10.510	"3.750	"10.640	"3.750	"10.640
"4.000	"11.080	"4.003	"11.150	"4.003	"11.300	"4.003	"11.360	"4.003	"11.360
"3.875	"10.060	"3.853	"10.890	"3.875	"11.110	"3.865	"11.080	"3.865	"11.080
"3.748	"10.330	"3.748	"10.680	"3.750	"10.870	"3.750	"10.880	"3.750	"10.880
"3.496	"10.080	"3.498	"10.140	"3.500	"10.310	"3.503	"10.350	"3.503	"10.350
"3.250	"9.530	"3.248	"9.580	"3.253	"9.760	"3.245	"9.750	"3.245	"9.750
"2.998	"8.930	"2.995	"8.980	"2.998	"9.160	"2.995	"9.170	"2.995	"9.170
"2.753	"8.356	"2.753	"8.400	"2.753	"8.550	"2.750	"8.560	"2.750	"8.560
"2.498	"7.700	"2.498	"7.760	"2.500	"7.890	"2.500	"7.960	"2.500	"7.960
"2.245	"7.050	"2.248	"7.120	"2.250	"7.270	"2.240	"7.280	"2.240	"7.280
"1.995	"6.400	"1.995	"6.480	"2.000	"6.630	"1.998	"6.650	"1.998	"6.650
"1.750	"5.770	"1.750	"5.820	"1.750	"5.930	"1.750	"5.920	"1.750	"5.920
"1.498	"5.070	"1.500	"5.150	"1.500	"5.250	"1.500	"5.330	"1.500	"5.330
"1.250	"4.390	"1.253	"4.450	"1.250	"4.560	"1.253	"4.640	"1.253	"4.640
"0.998	"3.660	"1.003	"3.740	"1.000	"3.820	"1.000	"3.940	"1.000	"3.940
"0.750	"2.950	"0.750	"3.020	"0.750	"3.090	"0.750	"3.150	"0.750	"3.150
"0.498	"2.190	"0.495	"2.230	"0.500	"2.300	"0.510	"2.450	"0.510	"2.450
"0.250	"1.430	"0.253	"1.470	"0.260	"1.560	"0.250	"1.660	"0.250	"1.660
0,	"0.730	0,	"0.690	0,	"0.780	0,	"0.920	0,	"0.920

SHIMIZU	AL-II-3D	ST. NO.	UG=1	FMAX= 3.00 TON/PILE	40/3/10			
					1 CYCLE		2 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
0, 0, 250	"0, 380	0, 0, 250	"0, 350	0, 0, 250	"0, 350	0, 0, 250	"0, 440	
0, 500	0, 220	0, 250	0, 310	0, 250	0, 310	0, 250	0, 230	
0, 900	0, 900	0, 498	1, 050	0, 500	1, 070	0, 500	0, 960	
0, 748	1, 630	0, 750	1, 790	0, 750	1, 820	0, 750	1, 690	
0, 750	2, 370	1, 000	2, 550	1, 000	2, 540	1, 000	2, 440	
1, 003	3, 120	1, 250	3, 260	1, 250	3, 280	1, 250	3, 180	
1, 503	3, 860	1, 500	3, 985	1, 500	4, 010	1, 500	3, 880	
1, 748	4, 610	1, 765	4, 730	1, 750	4, 750	1, 750	4, 600	
2, 003	5, 330	2, 003	5, 430	2, 000	5, 410	2, 000	5, 320	
2, 250	6, 040	2, 250	6, 130	2, 250	6, 120	2, 250	6, 020	
2, 500	6, 770	2, 500	6, 820	2, 500	6, 810	2, 500	6, 700	
2, 750	7, 490	2, 753	7, 540	2, 750	7, 490	2, 750	7, 390	
3, 000	8, 170	2, 998	8, 180	3, 000	8, 180	3, 000	8, 060	
3, 275	7, 980	2, 875	7, 990	2, 875	7, 970	2, 870	7, 850	
2, 750	7, 720	2, 753	7, 710	2, 750	7, 590	2, 750	7, 580	
2, 500	7, 170	2, 500	7, 160	2, 500	7, 140	2, 500	7, 030	
2, 248	6, 580	2, 250	6, 570	2, 250	6, 550	2, 253	6, 430	
2, 003	5, 980	2, 003	5, 980	2, 000	5, 950	2, 000	5, 830	
2, 075	5, 350	1, 750	5, 360	1, 750	5, 220	1, 750	5, 210	
1, 750	4, 700	1, 500	4, 700	1, 500	4, 670	1, 500	4, 570	
1, 498	4, 060	1, 250	4, 040	1, 250	4, 010	1, 250	3, 880	
1, 250	3, 360	1, 000	3, 360	1, 000	3, 330	1, 003	3, 190	
1, 000	2, 670	0, 750	2, 655	0, 750	2, 620	2, 650	2, 500	
0, 750	0, 503	0, 500	1, 970	0, 498	1, 900	0, 500	1, 770	
0, 250	1, 220	0, 250	1, 190	0, 250	1, 160	0, 250	1, 050	
0,	0, 500	0,	0, 460	0,	0, 440	0,	0, 350	
0,	0, 420	0,	0, 410	0,	0, 380	0,	0, 300	
*0, 250	*0, 280	*0, 250	*0, 280	*0, 250	*0, 340	*0, 250	*0, 380	
*0, 500	*1, 060	*0, 498	*1, 030	*0, 500	*1, 130	*0, 500	*1, 170	
*0, 750	*1, 830	*0, 750	*1, 810	*0, 750	*1, 900	*0, 750	*1, 930	
*1, 000	*2, 560	*1, 000	*2, 540	*1, 000	*2, 620	*1, 000	*2, 680	
*1, 250	*3, 310	*1, 250	*3, 280	*1, 250	*3, 350	*1, 250	*3, 410	
*1, 503	*4, 060	*1, 503	*4, 040	*1, 500	*4, 090	*1, 500	*4, 140	
*1, 750	*4, 800	*1, 750	*4, 780	*1, 750	*4, 810	*1, 750	*4, 840	
*2, 000	*5, 540	*2, 000	*5, 510	*2, 000	*5, 490	*2, 000	*5, 600	
*2, 250	*6, 260	*2, 250	*6, 240	*2, 250	*6, 160	*2, 250	*6, 290	
*2, 500	*6, 970	*2, 500	*6, 950	*2, 500	*6, 870	*2, 500	*6, 980	
*2, 753	*7, 670	*2, 750	*7, 630	*2, 750	*7, 570	*2, 750	*7, 670	
*3, 000	*8, 370	*3, 000	*8, 320	*3, 000	*8, 240	*3, 000	*8, 360	
*2, 863	*8, 110	*2, 870	*8, 090	*2, 875	*8, 090	*2, 870	*8, 110	

表-7-5 交番荷重試験 II, 3.0 D

表-7-5 交番荷重試験 II, 3, 0 D(続き)

SHIMIZU	AL-II=30	ST. NO.	DG=1	FMAX= 3,00 TON/PILE				40/3/10
				1 CYCLE		2 CYCLE		
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)
*2,750	*7,870	*2,750	*7,820	*2,750	*7,750	*2,750	*7,860	
*2,500	*7,500	*2,495	*7,240	*2,496	*7,170	*2,500	*7,290	
*2,243	*6,700	*2,250	*6,670	*2,250	*6,590	*2,253	*6,740	
*2,000	*6,100	*2,000	*6,060	*2,000	*5,980	*2,000	*6,090	
*1,748	*5,450	*1,750	*5,420	*1,750	*5,340	*1,750	*5,450	
*1,500	*4,800	*1,500	*4,760	*1,490	*4,660	*1,500	*4,800	
*1,250	*4,130	*1,253	*4,090	*1,253	*4,030	*1,250	*4,140	
*1,000	*3,10	*0,003	*3,360	*0,995	*3,310	*1,003	*3,410	
*0,750	*2,710	*0,750	*2,660	*0,750	*2,620	*0,750	*2,710	
*0,505	*1,960	*0,498	*1,920	*0,500	*1,900	*0,500	*1,960	
*0,250	*1,190	*0,253	*1,180	*0,250	*1,150	*0,250	*1,240	
0.	*0,430	0.	*0,440	0.	*0,370	0.	*0,490	

SHIMIZU	AL-II-20	1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
		LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
		0,	*0,250	0,	*0,270	0,	*0,280	0,	*0,230
		0,250	*0,350	0,410	*0,450	0,500	*0,550	0,550	*0,450
		0,500	*1,060	0,500	*1,160	0,500	*1,170	0,500	*1,170
		0,793	*1,930	0,750	*1,890	0,750	*1,900	0,750	*1,910
		1,000	*2,520	1,000	*2,620	1,000	*2,610	1,000	*2,650
		1,250	*3,250	1,250	*3,340	1,250	*3,350	1,250	*3,370
		1,500	*3,900	1,700	*4,050	1,703	*4,070	1,500	*4,070
		1,745	*4,680	1,750	*4,750	1,750	*4,740	1,750	*4,740
		2,000	*5,110	2,000	*5,450	2,000	*5,440	2,000	*5,440
		1,875	*5,180	1,875	*5,200	1,875	*5,210	1,875	*5,200
		1,750	*4,900	1,750	*4,940	1,750	*4,930	1,750	*4,930
		1,500	*4,120	1,250	*4,360	1,500	*4,350	1,500	*4,350
		1,250	*3,730	1,250	*3,750	1,250	*3,740	1,250	*3,730
		1,000	*3,090	1,000	*3,090	1,003	*3,100	1,000	*3,100
		0,750	*2,430	0,750	*2,450	0,750	*2,450	0,750	*2,450
		0,503	*1,740	0,503	*1,730	0,500	*1,730	0,500	*1,730
		0,250	*1,020	0,250	*1,010	0,250	*1,010	0,250	*1,030
		0,	0,320	0,	0,280	0,	0,310	0,	0,290
		0,	0,280	0,	0,240	0,	0,270	0,	0,270
		*0,250	*0,420	*0,250	*0,470	*0,250	*0,480	*0,250	*0,420
		*0,500	*1,160	*0,500	*1,230	*0,500	*1,160	*0,500	*1,180
		*0,750	*1,120	*0,750	*1,1950	*1,000	*1,150	*1,000	*1,150
		*1,000	*2,650	*1,000	*2,690	*1,000	*2,640	*1,000	*2,640
		*1,250	*3,390	*1,250	*3,440	*1,250	*3,370	*1,250	*3,370
		*1,500	*4,140	*1,500	*4,150	*1,500	*4,090	*1,500	*4,080
		*1,750	*4,850	*1,750	*4,860	*1,750	*4,880	*1,750	*4,840
		*2,000	*5,550	*2,000	*5,570	*2,000	*5,500	*2,000	*5,530
		*1,875	*5,100	*1,875	*5,320	*1,875	*5,230	*1,865	*5,240
		*5,020	*1,745	*1,750	*5,050	*1,750	*4,970	*1,745	*4,970
		*4,330	*1,500	*4,500	*4,450	*4,500	*4,390	*4,500	*4,410
		*1,250	*5,820	*3,250	*3,820	*1,250	*3,770	*1,250	*3,790
		*1,000	*3,170	*6,000	*3,170	*1,000	*3,140	*1,000	*3,100
		*0,750	*2,480	*0,750	*2,490	*0,750	*2,440	*0,750	*2,460
		*0,500	*1,780	*0,500	*1,780	*0,496	*1,720	*0,500	*1,730
		*0,250	*1,060	*0,250	*1,060	*0,250	*1,000	*0,250	*1,010
		0,	*0,330	0,	*0,320	0,	*0,270	0,	*0,260

表-7-6 交番荷重試験 II, 2.0 D

SHIMIZU Al=II-10 ST.NO. Dg=1 FMAX= 1,000 TON/PILE 40/3/11

1 CYCLE	2 CYCLE			3 CYCLE			4 CYCLE		
	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)
0, "0,140	"0,125	0, "0,150	0,	"0,160	0, "0,125	0, "0,140	0, "0,125	"0,170	
0, "0,128	0,140	0, "0,125	0, "0,180	0, "0,125	0, "0,250	0, "0,490	0, "0,125	0, "0,130	
0, "0,250	0,460	0, "0,250	0, "0,250	0, "0,250	0, "0,375	0, "0,850	0, "0,250	0, "0,470	
0, "0,375	0,800	0, "0,375	0, "0,860	0, "0,375	0, "0,850	0, "0,850	0, "0,375	0, "0,820	
0, "0,494	1,150	0, "0,500	0, "1,240	0, "0,500	0, "0,500	0, "1,190	0, "0,503	0, "1,160	
0, "0,625	1,520	0, "0,625	0, "1,580	0, "0,625	0, "1,550	0, "1,880	0, "0,625	0, "1,520	
0, "0,550	1,870	0, "0,750	0, "1,920	0, "0,750	0, "1,875	0, "2,230	0, "0,750	0, "1,860	
0, "0,875	2,220	0, "0,875	0, "2,260	0, "0,875	0, "2,230	0, "2,230	0, "0,875	0, "2,210	
1,000	2,580	1,000	1,600	1,000	1,570	2,570	1,000	2,540	
0, "0,938	2,470	0, "0,938	2,300	0, "0,938	2,460	0, "0,938	2,430		
0, "0,875	2,335	0, "0,875	2,370	0, "0,875	2,320	0, "0,875	2,290		
0, "0,750	2,050	0, "0,750	2,070	0, "0,750	2,030	0, "0,748	2,020		
0, "0,625	1,750	0, "0,625	1,770	0, "0,625	1,730	0, "0,628	1,730		
0, "0,500	1,460	0, "0,500	1,460	0, "0,500	1,430	0, "0,500	1,420		
0, "0,375	1,130	0, "0,375	1,130	0, "0,375	1,100	0, "0,375	1,100		
0, "0,255	0,800	0, "0,250	0, "0,810	0, "0,250	0, "0,770	0, "0,250	0, "0,760		
0, "0,125	0,460	0, "0,125	0, "0,470	0, "0,125	0, "0,430	0, "0,125	0, "0,420		
0,	0,150	0,	0,160	0,	0,160	0,	0,160		
0,	0,130	0,	0,	0,110	0,	0,070	0,	0,080	
0,	0,125	0, "0,200	0, "0,125	0, "0,220	0, "0,125	0, "0,250	0, "0,125	0, "0,250	
0, "0,250	0,560	0, "0,250	0, "0,590	0, "0,250	0, "0,600	0, "0,250	0, "0,590		
0, "0,375	0,920	0, "0,375	0, "0,950	0, "0,375	0, "0,950	0, "0,375	0, "0,950		
0, "0,500	1,280	0, "0,500	1,280	0, "0,500	1,310	0, "0,500	1,280		
0, "0,625	1,640	0, "0,625	1,660	0, "0,625	1,620	0, "1,670	0, "0,625	1,660	
0, "0,750	1,990	0, "0,750	2,020	0, "0,750	2,010	0, "0,750	2,000		
0, "0,878	2,370	0, "0,875	2,360	0, "0,875	2,360	0, "0,875	2,350		
"1,000	2,740	"1,000	2,720	"1,000	2,720	"1,000	2,700		
"0,355	2,600	"0,938	2,700	"0,938	2,680	"2,580	"0,938		
"0,875	2,470	"0,873	2,460	"0,875	2,450	"0,875	2,440		
"0,748	2,170	"0,720	2,170	"0,750	2,150	"0,748	2,150		
"0,625	1,855	"0,625	1,870	"0,625	1,850	"0,625	1,860		
"0,500	1,550	"0,498	1,550	"0,500	1,540	"0,500	1,530		
"0,375	1,220	"0,375	2,110	"0,375	2,100	"0,375	2,000		
"0,253	0,870	"0,250	0,880	"0,250	0,870	"0,250	0,890		
"0,125	0,530	"0,125	0,540	"0,125	0,530	"0,125	0,560		
0,	0,190	0,	0,	0,210	0,	0,200	0,	0,230	

表-7-7 交番荷重試験 II, 1.0 D

SHIMIZU	AL=IRI=2U	ST, NO. 500D=1 FMAX= 2,00 TON/PILE		40/3/14
		2 CYCLE	3 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
0.011	0.039	0.021	-0.117	
0.146	0.167	0.156	0.314	
0.250	0.395	0.297	0.856	
0.328	1.128	0.650	1.556	
0.432	1.439	0.775	1.906	
0.557	1.595	0.900	2.334	
0.676	1.828	1.004	2.606	
0.739	2.023	1.118	2.918	
0.796	2.178	1.233	3.268	
0.915	2.490	1.342	3.579	
0.983	2.645	1.472	3.890	
1.061	2.879	1.602	4.279	
1.186	3.229	1.732	4.629	
1.316	3.657	1.857	5.018	
1.446	4.007	1.955	5.252	
1.571	4.357	2.085	5.563	
1.706	4.746	2.236	5.913	
1.857	5.185	2.361	6.344	
1.987	5.524	2.252	6.107	
2.059	5.718	2.091	5.796	
1.945	5.524	1.961	5.563	
1.799	5.174	1.862	5.252	
1.685	4.940	1.721	4.940	
1.571	4.668	1.586	4.590	
1.461	4.396	1.487	4.318	
1.342	4.123	1.389	4.085	
1.217	3.773	1.248	3.734	
1.082	3.423	1.134	3.423	
0.962	3.151	1.019	3.151	
0.863	2.840	0.905	2.840	
0.749	2.529	0.785	2.490	
0.624	2.178	0.666	2.140	
0.317	1.595	0.583	1.967	
0.187	1.206	0.395	1.362	
0.099	0.817	0.271	1.323	
0.011	0.	0.146	0.817	
0.172	=0.428	0.057	0.506	
0.281	=0.778	0.	0.350	
0.416	=1.323	=0.011	0.117	
0.536	=1.517	=0.161	=0.350	

表-8-1 交番荷重試験 III, 2 U(続き)

SHIMIZU	AL=III=2U	ST. NO.	5000D-1	FMAX= 2.00 TON/PILE	40/3/14
	2 CYCLE		3 CYCLE		
	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
*0.666	*1,806	*0,260	*0,700		
*0.926	*2,662	*0,364	*0,934		
*1.051	*2,995	*0,531	*1,673		
*1.106	*3,579	*0,676	*1,867		
*1.477	*4,701	*0,796	*2,217		
*1.633	*4,890	*1,025	*2,995		
*1.779	*5,096	*1,155	*3,190		
*1.940	*5,641	*1,311	*3,812		
*2.055	*6,168	*1,571	*4,551		
*2.222	*6,213	*1,695	*4,824		
*1,966	*5,796	*1,815	*5,215		
*1,610	*5,113	*1,929	*5,602		
*1,577	*5,057	*2,075	*5,757		
*1,431	*4,707	*2,201	*6,185		
*1,351	*4,279	*2,460	*6,924		
*1,186	*3,929	*2,210	*6,585		
*1,035	*3,179	*2,085	*6,224		
*0,915	*3,190	*1,961	*5,933		
*0,588	*2,373	*1,846	*5,565		
*0,359	*1,773	*1,685	*5,174		
*0,213	*1,167	*1,591	*4,979		
*0,094	*0,622	*1,451	*4,510		
*0,016	*0,428	*1,300	*4,162		
		*1,181	*3,842		
		*1,080	*3,482		
			*0,895	*3,073	
			*0,765	*2,702	
			*0,676	*2,190	
			*0,525	*1,984	
			*0,375	*1,126	
			*0,281	*1,362	
			*0,141	*0,700	
			*0,011	*0,350	

表-8-1 交番荷重試験 III, 2 U

IMIZU	AL-111-3U	2 CYCLE		4 CYCLE		5 CYCLE		40/3/15
		LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
0.225	0.457	0.023	0.038	0.023	0.038	0.023	0.038	0.038
0.390	0.914	0.225	0.533	0.246	0.533	0.246	0.533	0.533
0.540	1.219	0.450	1.181	0.413	1.181	0.413	1.181	1.219
0.728	1.715	0.593	1.524	0.570	1.524	0.570	1.524	1.538
0.685	2.210	0.810	2.210	0.765	2.210	0.765	2.172	2.172
1.050	2.629	0.968	2.667	0.938	2.705	0.938	2.705	2.705
1.245	3.162	1.140	3.124	1.118	3.177	1.118	3.177	3.177
1.448	3.772	1.326	3.696	1.298	3.772	1.298	3.772	3.772
1.656	4.343	1.500	4.191	1.523	4.120	1.523	4.120	4.120
1.853	4.877	1.710	4.801	1.695	4.839	1.695	4.839	4.839
2.040	5.372	1.913	5.354	1.905	5.448	1.905	5.448	5.448
2.235	5.867	2.070	5.753	2.093	5.667	2.093	5.667	5.667
2.438	6.248	2.243	6.172	2.258	6.401	2.258	6.401	6.401
2.558	6.629	2.453	6.706	2.490	6.934	2.490	6.934	6.934
2.738	7.087	2.678	7.239	2.693	7.506	2.693	7.506	7.506
2.903	7.464	2.895	7.611	2.865	8.001	2.865	8.001	8.001
3.085	7.925	3.098	8.268	2.783	7.987	2.783	7.987	7.987
3.265	8.420	3.270	8.725	2.556	7.430	2.556	7.430	7.430
3.083	8.115	3.240	8.725	2.310	6.820	2.310	6.820	6.820
2.865	7.658	3.160	8.687	2.168	6.153	2.168	6.153	6.153
2.655	7.239	2.940	8.266	1.958	6.058	1.958	6.058	6.058
2.445	6.796	2.753	7.849	1.755	5.125	1.755	5.125	5.125
2.235	6.363	2.550	7.391	1.580	4.953	1.580	4.953	4.953
2.048	5.791	2.340	6.934	1.385	4.420	1.385	4.420	4.420
1.868	5.410	2.160	6.515	1.148	3.124	1.148	3.124	3.124
1.665	4.877	1.935	5.944	0.958	3.391	0.958	3.391	3.391
1.478	4.343	1.733	5.448	0.818	3.010	0.818	3.010	3.010
1.230	3.754	1.538	4.915	0.733	2.705	0.733	2.705	2.705
1.035	3.010	1.343	4.382	0.578	2.210	0.578	2.210	2.210
0.885	2.629	1.200	4.039	0.426	1.776	0.426	1.776	1.776
0.698	2.057	0.990	3.429	0.263	1.334	0.263	1.334	1.334
0.536	1.486	0.795	2.858	0.053	0.533	0.053	0.533	0.533
0.375	1.143	0.623	2.362	0.015	0.338	0.015	0.338	0.338
0.188	0.724	0.495	1.867	-0.045	0.218	-0.045	0.218	0.218
0.030	0.191	0.301	1.334	0.015	0.194	0.015	0.194	0.194
0.060	*0.191	0.120	0.991	*0.413	*0.593	*0.413	*0.593	*0.593
0.293	*0.686	0.015	0.610	*0.800	*1.200	*0.800	*1.200	*1.200
0.510	*1.295	-0.023	-0.038	*2.248	*2.248	*2.248	*2.248	*2.248
0.703	*2.019	*0.263	*0.648	*1.043	*2.896	*1.043	*2.896	*2.896
0.885	*2.434	*0.464	*1.181	*1.230	*3.467	*1.230	*3.467	*3.467

表-8-2 交番荷重試験 III, 3U(継ぎ)

SHIMIZU	AL=IIIa3U	ST.NO. 50001	FMAX= 3,00 TON/PILE	40/3/15
2 CYCLE		4 CYCLE		5 CYCLE
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)
*1.118	*3.048	*0.645	*1.867	*1.440
*1.395	*3.846	*0.885	*2.515	*1.650
*1.740	*4.801	*1.110	*3.277	*1.845
*1.965	*5.144	*1.305	*3.734	*2.033
*2.340	*6.172	*1.500	*4.191	*2.325
*3.028	*7.562	*1.695	*4.953	*2.700
*3.233	*7.925	*1.920	*5.105	*2.513
*3.420	*8.839	*2.145	*5.982	*2.318
*2.903	*7.849	*2.520	*6.896	*2.045
*2.700	*7.544	*3.246	*9.030	*1.673
*2.310	*6.591	*2.978	*8.458	*1.470
*2.078	*6.210	*2.228	*6.668	*1.238
*1.883	*5.410	*2.003	*6.134	*1.170
*1.710	*5.029	*1.613	*5.258	*0.938
*1.485	*4.859	*1.403	*4.496	*0.735
*1.234	*4.039	*1.080	*3.810	*0.570
*1.050	*3.581	*0.855	*3.239	*0.353
*0.855	*3.048	*0.705	*2.781	*0.143
*0.623	*2.438	*0.518	*2.057	*0.015
*0.465	*1.753	*0.293	*1.410	*0.343
*0.240	*1.181	*0.083	*0.762	
*0.023	*0.572	*0.015	*0.572	

表-8-2 交番荷重試験 III, 3 U

SHIMIZU	AL-IIII+AU	ST.NO.	5000#1	F MAX= 4,00 TON/PILE	40/3/15			5 CYCLE		
					1 CYCLE		2 CYCLE		3 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)
0,015	0,039	0,015	0,015	0,222	0,039	0,008	0,015	0,015	0,015	0,015
0,227	0,384	0,309	0,581	0,542	0,253	0,619	0,245	0,542	0,542	0,542
0,416	1,167	0,539	1,122	0,428	1,161	0,436	1,000	0,443	1,161	0,443
0,560	1,354	0,729	1,509	0,610	1,509	0,618	1,548	0,610	1,548	0,610
0,734	2,023	0,951	2,090	0,832	2,206	1,030	2,670	0,848	2,206	0,848
0,878	2,412	1,157	2,670	1,050	2,709	1,228	2,367	1,050	2,706	1,050
1,000	2,140	1,394	3,290	1,252	3,367	1,558	3,947	1,228	3,251	1,228
1,196	3,345	1,593	3,870	1,474	3,947	1,688	4,567	1,434	3,947	1,434
1,401	3,929	1,791	4,354	1,696	4,489	1,925	5,186	1,640	4,489	1,640
1,583	4,74	1,973	4,799	1,902	5,031	2,124	5,728	1,846	5,031	1,846
1,765	4,979	2,187	5,302	2,116	5,573	2,345	6,318	2,060	5,650	2,060
1,946	5,185	2,369	5,805	2,330	6,192	2,544	6,775	2,274	6,192	2,274
2,113	5,913	2,583	6,308	2,544	6,734	2,773	7,553	2,480	6,695	2,480
2,318	6,496	2,775	6,775	2,742	7,189	2,979	7,934	2,694	7,237	2,694
2,499	6,174	2,987	7,198	2,964	7,740	3,217	8,398	2,916	7,740	2,916
2,696	7,469	3,217	7,817	3,178	8,243	3,439	8,978	3,146	8,282	3,146
2,778	7,036	3,453	8,359	3,384	8,862	3,685	9,598	3,344	8,785	3,344
3,026	8,444	3,503	8,901	3,613	9,327	3,738	10,365	3,566	9,211	3,566
3,222	8,947	3,859	9,327	3,819	9,869	4,192	10,372	3,772	9,794	3,772
3,469	9,414	4,041	9,791	4,057	10,410	4,458	9,830	4,010	10,294	4,010
3,658	9,881	4,263	10,217	4,271	10,915	4,557	9,443	4,382	11,571	4,382
3,878	10,425	4,511	10,526	4,493	11,471	4,830	9,940	4,255	11,146	4,255
3,969	10,814	4,208	10,110	4,572	11,765	4,950	8,940	4,089	10,856	4,089
3,886	10,659	4,076	10,178	4,566	11,339	4,271	8,166	3,930	10,565	3,930
3,651	10,270	3,883	9,714	4,094	10,797	4,095	10,565	3,704	10,101	3,704
3,439	9,803	3,693	9,482	3,851	10,604	3,923	10,372	3,510	9,675	3,510
3,264	9,453	3,502	9,172	3,653	10,256	3,819	9,830	3,360	9,482	3,360
2,848	8,519	3,265	8,146	3,463	9,714	3,582	9,443	3,122	8,662	3,122
2,636	8,013	3,019	8,160	3,217	9,095	3,836	8,940	2,932	8,475	2,932
2,431	7,547	2,815	7,624	2,979	8,630	3,130	8,514	2,742	7,972	2,742
2,234	7,041	2,551	7,160	2,781	8,262	2,948	8,166	2,594	7,740	2,594
2,035	6,574	2,377	6,519	2,575	7,663	2,781	7,740	2,377	7,198	2,377
1,840	6,030	2,282	6,124	2,480	7,508	2,591	7,740	2,187	6,656	2,187
1,628	5,096	2,227	6,153	1,846	6,076	2,377	7,276	1,989	6,251	1,989
1,494	5,096	2,189	6,153	1,846	6,076	2,139	6,618	1,846	5,892	1,846
1,325	4,629	1,949	5,728	1,656	5,457	1,941	6,192	1,640	5,379	1,640
1,143	4,128	1,767	5,302	1,426	4,915	1,759	5,728	1,434	4,859	1,434
0,977	3,618	1,553	4,760	1,228	4,354	1,545	5,108	1,244	4,257	1,244
0,765	2,956	1,339	4,257	1,054	3,870	1,339	4,567	1,062	3,834	1,062
0,598	2,412	1,144	3,678	0,887	3,406	1,125	4,025	0,824	3,155	0,824

表-8-3 交番荷重試験 III, 4 U(続々)

SHIMIZU	AL-III-4U	ST. NO.	5000#-1	F MAX= 4,00 TON/P/TILE	40/3/15				5 CYCLE			
					1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
0.462	1.867	0.966	3.251	0.705	2.903	0.911	3.444	0.586	2.399			
0.265	1.111	0.792	2.709	0.531	2.283	0.705	2.25	0.420	1.742			
0.063	0.973	0.626	2.245	0.293	1.548	0.539	2.167	0.229	1.316			
0.007	0.700	0.467	1.025	0.095	1.277	0.317	1.548	0.047	1.006			
-0.022	-0.1078	0.269	1.277	0.	0.929	0.126	1.338	0.	0.813			
0.227	0.545	0.055	0.774	0.026	0.039	0.023	0.968	0.015	0.077			
0.109	0.934	0.214	0.464	0.214	0.464	0.015	0.039	0.265	0.581			
0.836	2.375	*0.222	*0.464	*0.436	*1.084	*0.237	*0.542	*0.467	*1.258			
1.116	*6.034	*0.436	*1.006	*0.602	*1.625	*0.559	*1.122	*0.654	*1.780			
1.772	-3.696	-0.610	*1.625	*0.784	*2.283	*0.118	*1.703	*0.840	*2.477			
1.939	5.524	*0.882	*2.283	*1.006	*2.825	*0.846	*2.439	*1.077	*3.096			
2.340	6.341	*1.022	*2.864	*1.212	*3.444	*1.070	*3.119	*1.268	*3.715			
2.661	7.313	*1.286	*3.416	*1.418	*3.947	*1.252	*3.599	*1.497	*4.257			
2.868	7.936	*1.355	*3.793	*1.624	*4.489	*1.458	*4.180	*1.704	*4.856			
3.333	8.908	*1.577	*4.334	*1.830	*5.108	*1.696	*4.883	*1.941	*5.418			
3.772	*10.231	*1.846	*4.954	*2.028	*5.612	*1.894	*5.341	*2.165	*5.999			
3.977	*10.931	*2.021	*5.414	*2.250	*6.115	*2.124	*6.005	*2.404	*6.510			
3.870	*10.853	*2.227	*5.121	*2.425	*6.695	*2.330	*6.347	*2.607	*7.198			
6.727	*10.581	*2.448	*6.386	*2.623	*7.121	*2.559	*6.966	*2.805	*7.901			
6.605	*10.347	*2.655	*7.043	*2.773	*7.353	*2.769	*7.547	*3.002	*8.321			
3.469	*10.036	*2.861	*7.508	*2.924	*7.740	*3.043	*8.127	*3.261	*8.862			
2.287	*7.352	*3.090	*8.018	*3.154	*8.359	*3.257	*8.708	*3.491	*9.211			
1.704	*5.485	*3.320	*8.30	*3.344	*8.978	*3.359	*9.133	*3.766	*9.830			
1.068	*3.501	*3.439	*8.940	*3.598	*9.365	*3.657	*9.482	*3.954	*10.449			
0.729	*2.956	*3.845	*9.007	*3.772	*9.946	*4.366	*11.146	*4.438	*11.765			
0.522	*2.256	*3.96	*10.294	*3.978	*10.372	*4.184	*11.494	*4.136	*11.223			
1.556	4.192	*4.200	*10.759	*4.200	*10.886	*4.257	*11.846	*4.001	*11.146			
0.045	0.817	*4.152	*10.197	*4.279	*11.184	*4.669	*10.410	*3.824	*10.326			
0.007	*0.661	*3.851	*10.353	*4.184	*11.068	*4.331	*9.559	*3.479	*10.178			
		*3.170	*9.172	*3.986	*10.643	*4.178	*10.056	*3.205	*9.404			
		*3.296	*8.901	*3.590	*9.946	*2.956	*8.708	*3.035	*9.056			
		*3.165	*9.135	*3.098	*8.901	*2.694	*8.166	*2.805	*8.514			
		*3.284	*8.778	*2.940	*8.514	*2.464	*7.547	*2.533	*7.772			
		*2.559	*7.663	*2.060	*6.540	*1.945	*7.005	*2.117	*7.624			
		*2.322	*7.943	*1.862	*5.999	*1.355	*7.479	*2.227	*7.498			
		*2.108	*6.579	*1.704	*5.534	*1.157	*4.296	*1.141	*4.354			

表-8-3 交番荷重試験 III, 4 U(続き)

SHIMIZU	A _L =III=4U	S _T , N _U , 5000 ^a	F _{MAX} = 4.00 TON/PILE	40/3/15			
				1 CYCLE	2 CYCLE	3 CYCLE	4 CYCLE
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
*1.933	*6.153	*1.490	*5.070	*0.966	-3.793	*0.903	*3.754
*1.727	*5.612	*1.283	-4.489	*0.800	*3.328	*0.753	*3.290
*1.474	*4.954	*1.070	-3.986	*0.902	*2.670	*0.562	*2.554
*1.268	*4.412	*0.840	*3.406	*0.261	*1.548	*0.348	*1.955
*1.085	*3.909	*0.610	*2.670	*0.111	*1.122	*0.174	1.393
*0.927	*3.480	*0.428	-1.973	-0.008	*0.313	*0.039	*0.968
*0.745	*2.941	*0.222	*1.393				
*0.570	*2.361	*0.087	-1.006				
*0.372	*1.742	*0.008	*0.774				
*0.198	*1.277						
*0.079	*0.890						
*0.008	*0.697						

表-8-3 交番荷重試験 III, 4 U

SHIMIZU	AL-III-5U	ST, NO, 5000#1		FMAX= 5,00 TON/PILE		40/3/16	
		LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
1 CYCLE							
0.018	0.168	0.048	0.126	0.018	0.084	0.017	0.079
0.270	0.504	0.306	0.946	0.288	0.420	0.447	0.225
0.468	0.882	0.432	1.302	0.468	1.165	0.619	1.857
0.646	1.554	0.612	1.946	0.684	1.932	0.877	2.686
0.936	2.184	0.864	2.436	0.900	2.688	1.118	3.358
1.206	2.898	1.026	3.276	1.170	3.818	1.342	3.990
1.494	3.570	1.296	3.954	1.386	4.765	4.740	4.740
1.764	4.410	1.530	4.536	1.656	4.784	1.841	5.372
1.998	4.833	1.718	5.166	1.872	5.448	2.099	6.281
2.214	5.418	2.124	5.964	2.124	6.236	2.305	6.834
2.484	6.132	2.358	6.720	2.412	6.846	2.546	7.347
2.736	6.678	2.556	7.140	2.682	7.644	2.769	8.137
2.934	7.266	2.790	7.812	2.988	8.400	3.062	8.690
3.204	7.980	3.078	8.568	3.240	9.114	3.268	9.480
3.546	8.736	3.384	9.282	3.420	9.576	3.526	10.033
3.798	9.450	3.582	9.912	3.690	10.206	3.804	10.784
4.050	9.996	3.916	10.332	3.924	10.336	4.077	11.534
4.320	10.794	4.086	11.088	4.176	11.424	4.352	12.166
4.590	11.256	4.738	11.634	4.410	12.096	4.593	12.838
4.788	11.760	4.954	12.138	4.662	12.584	4.816	13.272
5.094	12.558	4.806	12.852	4.950	13.356	5.040	13.985
5.346	13.146	5.058	13.272	5.112	13.692	5.298	14.497
5.616	13.816	5.238	13.860	5.346	14.322	5.539	15.169
5.922	14.490	5.526	14.448	5.616	15.120	5.762	15.728
6.210	15.162	5.88	14.910	5.904	15.792	5.986	16.235
6.372	15.540	5.922	15.498	6.138	16.464	6.330	16.985
6.732	16.548	6.156	16.044	6.408	17.052	6.669	17.669
6.372	16.044	6.336	16.644	6.624	17.808	5.900	16.432
6.156	15.666	6.606	17.094	6.516	17.687	6.625	15.879
5.958	15.330	6.88	17.598	6.390	17.514	5.435	15.553
5.688	14.784	6.624	17.472	6.246	17.262	5.195	15.089
5.400	14.322	6.534	17.386	6.084	17.010	4.988	14.615
5.130	13.776	6.390	17.220	5.904	16.774	4.730	14.141
4.842	13.104	6.192	16.842	5.634	16.128	4.524	13.707
4.734	12.894	6.048	16.506	5.400	15.708	4.283	13.238
4.446	12.432	5.904	16.254	5.202	15.288	3.973	12.482
4.140	11.592	5.832	16.128	4.950	14.658	3.767	12.127
3.942	11.298	5.544	16.624	4.716	14.154	3.526	11.534
3.708	10.836	5.310	15.246	4.572	13.818	3.320	11.021
3.474	10.248	5.094	14.616	4.856	13.487	3.113	10.286

表-8-4 交番荷重試験 III, 5 U(焼き)

SHIMIZU	AL+III+5U	ST.NO. 5000+1 FMAX= 5,00 TON/PILE				40/3/16			
		1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
3,222	9.618	4,876	14,406	4,140	12,978	2,855	9.954		
3,006	9.198	4,662	13,828	3,324	12,432	2,632	9.362		
2,772	8.510	4,392	13,272	3,708	12,054	2,374	8.809		
2,556	8.232	4,140	12,684	3,528	11,592	2,185	8.266		
2,334	7.476	3,924	12,306	3,312	11,130	2,015	7.821		
2,070	7.014	3,672	11,718	3,096	10,584	1,789	7.189		
1,854	6.468	3,420	11,046	2,916	10,206	1,531	6.557		
1,692	6.006	3,168	10,584	2,716	9,618	1,290	5.886		
1,476	5,102	3,024	10,290	2,666	9,114	1,067	5.254		
1,242	4,872	2,772	9,618	2,332	8,400	0,843	4,562		
0,990	4,242	2,520	9,072	1,980	7,770	0,568	3,674		
0,756	3,528	2,286	8,442	1,782	7,308	0,379	2,686		
0,486	2,668	2,124	8,064	1,530	6,594	0,138	1,935		
0,324	1,910	1,854	7,350	1,314	6,006	0,067	1,442		
0,108	1,260	1,566	6,636	1,080	5,334	-0,035	-0,040		
0,	0,524	1,296	5,922	0,846	4,704	-0,258	-0,593		
0,	0,042	1,044	5,208	0,648	4,116	-0,499	-1,462		
*0,117	*0,294	*0,810	4,578	0,468	3,318	-0,723	-2,489		
*0,414	*1,050	*0,594	3,948	0,270	2,478	-0,981	-3,279		
*0,558	*1,806	*0,378	2,982	0,108	2,016	-1,289	-4,029		
*0,810	*2,436	0,126	2,100	0,	1,638	-1,497	-4,859		
*1,044	*3,192	*	0,042	*0,234	0,042	*1,755	*5,649		
*1,350	*3,948	*0,018	0,042	*0,234	0,420	*1,978	*6,202		
*1,584	*4,120	*0,160	*0,356	*0,486	*1,386	*2,202	*6,992		
*1,818	*5,250	*0,450	*1,134	*0,720	*2,794	*2,477	*7,762		
*2,086	*6,006	*0,612	*2,016	*0,918	*2,982	*2,701	*8,493		
*2,340	*6,552	*0,864	*2,814	*1,512	*3,654	*3,659	*9,125		
*2,520	*7,098	*1,216	*3,486	*1,476	*4,178	*3,871	*10,231		
*2,754	*7,444	*1,382	*4,200	*1,728	*5,376	*5,326	*10,744		
*3,024	*8,316	*1,548	*4,872	*1,942	*6,448	*6,819	*11,554		
*3,222	*8,862	*6,836	*5,544	*2,244	*6,762	*8,629	*11,179		
*3,456	*9,150	*2,052	*6,342	*2,484	*7,518	*3,561	*11,100		
*3,726	*10,080	*2,304	*6,930	*2,736	*8,174	*3,337	*10,665		
*3,906	*10,584	*2,574	*7,728	*2,992	*8,862	*3,148	*10,310		
*4,122	*11,088	*2,880	*8,568	*3,132	*9,408	*3,027	*9,994		
*4,410	*11,886	*3,132	*9,156	*3,330	*9,996	*2,701	*9,243		
*4,698	*12,558	*3,30	*9,702	*3,474	*10,374	*2,649	*9,204		
*4,842	*13,020	*3,600	*10,416	*3,762	*11,388	*2,408	*8,493		
*5,094	*13,82	*3,870	*11,088	*4,014	*11,760	*2,322	*8,335		
*5,346	*14,196	*3,996	*11,592	*4,248	*12,390	*2,099	*7,762		

表-8-4 交番荷重試験 III, 5 U(続表)

SHIMIZU	AL-1111-50	ST. NO. 5000+1 FMAX= 5,00 TON/PILE				40/3/16			
		1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
*5.616	*14.868	*4.266	*12.180	*4.500	*13.104	*1.961	*7.466		
*5.850	*15.491	*4.424	*12.768	*4.90	*13.556	*1.006	*7.031		
*6.138	*16.044	*4.494	*12.810	*4.860	*13.986	*1.755	*6.913		
*6.282	*16.632	*5.076	*14.154	*5.076	*14.574	*1.514	*6.281		
*6.372	*17.070	*5.256	*14.744	*5.274	*15.204	*0.671	*3.990		
*6.390	*16.842	*5.544	*15.246	*5.508	*15.666	*0.499	*3.397		
*5.994	*16.548	*5.742	*15.960	*5.742	*16.996	*0.275	*2.294		
*5.760	*16.128	*6.030	*16.590	*6.012	*17.010	*0.138	*1.196		
*5.490	*15.708	*6.282	*17.316	*6.210	*17.640				
*5.238	*15.288	*6.534	*18.312	*6.390	*18.270				
*4.980	*14.532	*6.426	*18.226	*6.264	*18.060				
*4.698	*13.985	*6.282	*18.018	*6.210	*18.018				
*4.446	*13.314	*6.102	*17.982	*6.012	*17.596				
*4.194	*12.810	*5.904	*17.242	*5.760	*17.052				
*3.994	*12.474	*5.652	*16.000	*5.472	*16.422				
*3.582	*11.676	*5.382	*16.212	*5.274	*15.750				
*3.348	*10.878	*5.130	*15.024	*5.078	*15.246				
*3.060	*10.290	*4.860	*14.994	*4.680	*14.784				
*2.862	*9.786	*4.590	*14.066	*4.482	*14.322				
*2.646	*9.114	*4.022	*13.176	*3.356	*13.986				
*2.448	*8.778	*4.156	*13.524	*4.176	*13.608				
*2.142	*8.106	*3.106	*12.336	*4.014	*13.146				
*1.926	*7.392	*3.654	*12.264	*3.852	*12.768				
*1.674	*6.804	*3.556	*11.022	*3.708	*12.452				
*1.404	*6.048	*3.258	*11.114	*2.790	*10.038				
*1.314	*5.586	*3.006	*10.624	*2.628	*9.618				
*1.188	*5.502	*2.826	*10.148	*2.340	*8.820				
*1.044	*4.998	*2.538	*9.618	*2.034	*7.980				
*0.810	*4.494	*2.286	*8.778	*1.944	*7.308				
*0.504	*3.360	*2.070	*8.316	*1.764	*6.888				
*0.360	*2.604	*1.872	*7.728	*1.548	*6.300				
*0.194	*2.142	*1.692	*7.182	*1.314	*5.586				
*0.036	*1.680	*1.548	*6.846	*1.134	*5.124				
0.	*1.552	*1.440	*6.552	*0.918	*4.536				
		*1.242	*6.006	*0.720	*3.906				
		*1.026	*5.334	*0.504	*3.066				
		*0.774	*4.746	*0.270	*1.974				
		*0.558	*3.948	*0.162	*1.554				
		*0.396	*2.982	*0.018	*1.008				

SHIMIZU	AL-III-SU	ST.NO.	5000-1	FMAX= 5,00 TON/PILE	40/3/16		
1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
*0.018	*1.764						

表-8-4 交番荷重試験 III, 5 U

SHIMIZU	AL-III-GU	ST. NO. 50001		FMAX= 6,00 TON/PILE		40/3/18	
		1 CYCLE	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.034	0.077	0.017	0.039	0.017	0.039	0.033	0.039
0.202	0.426	0.168	0.310	0.118	0.194	0.269	0.561
0.421	0.984	0.353	0.690	0.303	0.774	0.538	1.289
0.639	1.471	0.555	1.316	0.539	1.316	0.723	2.012
0.825	2.206	0.724	2.051	0.690	1.935	0.992	2.825
0.993	2.709	0.926	2.554	0.892	2.516	1.262	3.560
1.212	3.328	1.094	3.096	1.077	3.019	1.497	4.141
1.413	3.870	1.296	3.599	1.779	3.799	1.716	4.760
1.599	4.573	1.664	4.141	1.664	4.141	1.901	5.302
1.600	4.594	1.649	4.567	1.649	4.567	2.153	5.882
2.002	5.467	1.817	4.992	1.834	5.147	2.406	6.579
2.204	5.921	2.019	5.495	2.036	5.534	2.606	7.237
2.389	6.316	2.204	5.960	2.171	5.999	2.910	7.856
2.524	6.734	2.423	6.502	2.372	6.424	3.196	8.553
2.658	7.082	2.625	7.082	2.558	6.927	3.466	9.249
2.860	7.508	2.844	7.624	2.961	8.011	3.752	9.907
3.062	8.051	3.062	8.127	3.197	8.475	4.004	10.565
3.281	8.551	3.281	8.669	3.599	9.940	4.240	10.991
3.634	9.404	3.517	9.211	3.753	9.365	4.458	11.571
3.819	9.991	3.736	9.675	3.752	9.830	4.694	12.152
4.038	10.256	3.904	10.052	3.988	10.333	4.946	12.732
4.257	10.997	4.089	10.526	4.173	10.836	4.963	13.429
4.442	11.223	4.543	11.610	4.124	11.107	5.283	13.584
4.610	11.333	4.762	12.074	4.509	11.494	5.064	13.352
4.778	11.556	4.930	12.500	4.711	11.997	5.245	13.335
4.997	12.461	5.115	12.965	4.930	12.500	5.165	13.235
5.182	12.926	4.711	12.461	5.064	12.887	5.182	13.274
5.435	13.622	4.560	11.997	5.199	13.235	5.114	13.177
5.098	13.197	4.408	11.687	5.401	13.584	4.946	12.965
4.930	12.926	4.307	11.610	5.064	13.048	4.727	12.539
4.745	12.539	4.021	10.991	5.721	14.396	4.559	12.268
4.569	12.229	3.836	10.604	5.519	14.319	4.426	11.997
4.459	11.612	3.710	10.372	5.118	14.048	4.172	11.533
4.341	11.126	3.500	9.946	5.250	13.739	3.903	10.913
4.206	11.687	3.382	9.598	5.064	13.506	3.667	10.488
4.072	11.417	3.214	9.482	4.930	13.158	3.466	10.139
4.105	11.223	3.079	9.017	4.812	13.042	3.247	9.559
3.954	10.552	2.911	8.650	4.593	12.694	2.978	8.940
3.819	10.228	2.743	8.359	4.459	12.229	2.742	8.475
3.716	10.526	2.541	7.817	4.274	12.074	2.523	7.934

SHIMIZU	AL=III=6U	ST.NO.	5000*1			FMAX= 6.00 TON/PILE			40/3/18		
			1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE		
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
3.567	10.217	2.356	7.392	4.122	11.726	2.321	7.508				
3.616	9.791	2.154	6.927	3.954	11.359	2.069	6.889				
3.651	9.520	1.969	6.386	3.803	10.913	1.884	6.502				
3.645	9.559	1.817	6.115	3.601	10.565	1.632	5.805				
2.995	8.824	1.666	5.689	3.449	10.217	1.379	5.225				
2.877	8.669	1.464	5.263	3.298	9.907	1.161	4.605				
2.793	8.437	1.312	4.836	3.146	9.74	0.942	4.025				
2.692	8.204	1.201	4.573	3.012	9.172	0.757	3.522				
2.541	7.972	0.993	4.125	2.894	8.901	0.555	2.593				
2.356	7.430	0.825	3.406	2.795	8.746	0.302	1.780				
2.187	7.121	0.623	2.941	2.658	8.359	0.084	1.084				
1.985	6.540	0.559	2.283	2.519	8.204	0.	1.045				
1.668	6.269	0.296	1.519	2.136	7.160	0.016	0.039				
1.716	5.960	0.152	1.200	1.935	6.695	0.252	0.542				
1.548	5.457	0.051	1.161	1.766	6.231	0.504	1.393				
1.413	5.186	0.	1.006	1.548	5.728	0.706	1.245				
1.279	4.760	0.017	0.039	1.390	5.225	0.942	1.019				
1.144	4.451	0.151	0.382	1.262	5.081	1.177	1.599				
0.959	3.947	0.303	0.658	1.093	4.451	1.596	2.296				
0.791	3.483	0.539	1.393	0.942	4.141	1.665	4.876				
0.656	2.864	0.673	2.051	0.757	3.560	4.918	15.689				
0.522	2.322	0.858	2.632	0.589	2.864	2.170	6.308				
0.320	1.742	1.077	3.251	0.471	2.322	2.389	6.889				
0.152	1.200	1.219	3.131	0.067	1.277	2.608	7.508				
0.051	0.968	1.481	4.296	0.	1.238	2.877	8.166				
-0.017	-0.039	-1.636	-4.199	0.	-0.077	-3.146	-8.862				
-0.152	-0.310	-1.885	-5.379	-0.253	-1.558	-3.651	-10.139				
-0.353	-0.774	-2.053	-5.805	-0.539	-1.509	-5.954	-10.836				
-0.572	-1.509	-2.288	-6.147	-0.724	-2.399	-6.228	-11.571				
-0.690	-2.129	-2.450	-6.966	-1.010	-3.135	-6.492	-12.113				
-0.858	-2.670	-2.675	-7.392	-1.262	-3.909	-4.744	-12.694				
-0.976	-3.019	-2.877	-7.817	-1.498	-4.567	-4.896	-13.429				
-1.174	-3.444	-3.629	-8.321	-1.716	-5.147	-5.018	-13.622				
-1.346	-3.986	-3.281	-8.662	-1.985	-5.728	-6.879	-13.584				
-1.531	-4.412	-3.533	-9.404	-2.187	-6.347	-6.963	-13.390				
-1.699	-4.876	-3.702	-9.907	-2.406	-6.966	-6.862	-13.313				
-1.885	-5.341	-3.867	-10.333	-2.591	-7.469	-7.744	-13.159				
-2.103	-5.882	-4.105	-10.875	-2.810	-8.011	-8.458	-12.578				
-2.322	-6.424	-4.339	-11.146	-3.045	-8.680	-9.299	-12.229				
-2.457	-6.889	-4.408	-11.194	-3.298	-9.172	-4.155	-12.036				

表-8-5 文番荷重試験 III, 6 U(続々)

SHIMIZU	AL-III=6U	ST.NO. 500U-1	FMAX= 6,00 TON/PILE						40/3/18
			1 CYCLE		2 CYCLE		3 CYCLE		
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
*2,658	*7,237	*4,543	*12,113	*3,533	*9,880	*3,869	*11,417		
*2,577	*7,856	*5,044	*13,774	*3,786	*10,372	*5,617	*10,875		
*3,130	*8,475	*4,829	*13,003	*4,055	*11,068	*3,365	*10,372		
*3,298	*8,824	*4,610	*12,616	*4,307	*11,667	*3,129	*9,752		
*3,449	*9,172	*4,426	*12,500	*4,509	*12,191	*2,894	*9,172		
*3,685	*9,830	*4,358	*12,229	*4,795	*12,848	*2,624	*8,555		
*3,870	*20,178	*4,173	*11,726	*4,896	*13,274	*2,406	*8,050		
*4,072	*10,681	*3,971	*11,339	*4,846	*13,197	*2,254	*7,779		
*4,291	*11,184	*3,803	*11,050	*4,543	*12,655	*2,019	*7,166		
*4,526	*11,726	*3,684	*10,565	*4,408	*12,425	*1,783	*6,618		
*4,762	*12,191	*3,599	*9,907	*4,291	*12,268	*1,598	*5,999		
*4,980	*12,848	*3,197	*9,714	*4,055	*11,864	*1,362	*5,379		
*5,149	*13,274	*3,079	*9,327	*3,803	*11,202	*1,177	*4,915		
*5,064	*13,158	*2,827	*8,862	*3,567	*10,720	*0,925	*4,180		
*4,964	*13,081	*2,709	*8,630	*3,365	*10,353	*0,673	*3,522		
*4,812	*12,926	*2,524	*8,127	*3,163	*9,946	*0,488	*2,632		
*4,661	*12,616	*2,322	*7,713	*2,894	*9,04	*0,269	*1,856		
*4,595	*12,461	*2,137	*7,276	*2,675	*8,746	*0,104	*1,393		
*4,577	*12,423	*1,969	*6,656	*2,457	*8,127	*0,016	*1,084		
*4,492	*12,268	*1,649	*6,424	*2,256	*7,524				
*4,341	*11,997	*1,800	*6,347	*1,969	*7,005				
*4,156	*11,649	*1,447	*5,457	*1,735	*6,308				
*4,055	*11,455	*1,279	*4,992	*1,649	*6,192				
*3,819	*11,262	*1,111	*4,528	*1,397	*5,689				
*3,904	*11,107	*1,010	*4,354	*1,161	*4,954				
*3,718	*10,720	*0,841	*3,909	*0,892	*4,258				
*3,500	*10,250	*0,623	*3,096	*0,623	*3,367				
*3,264	*9,714	*0,486	*2,399	*0,471	*2,354				
*2,978	*9,133	*0,370	*2,090	*0,236	*1,896				
*2,810	*8,785	*0,165	*1,509	*0,067	*1,432				
*2,675	*8,514	*0,101	*1,310	0,	*1,200				
*2,490	*8,088	*0,034	*1,045						
*2,322	*7,585								
*2,120	*7,160								
*1,935	*6,695								

表-8-5 交番荷重試験 III, 6U(焼き)

SHIMIZU	AL=III=6U	ST.NO. 5000-1		FMAX= 6,00 TON/PILE		40/3/16	
		1 CYCLE	DEFLECTION (CM)	2 CYCLE	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)
		*0.993	*4.296				
		*0.825	*3.909				
		*0.757	*3.599				
		*0.606	*5.019				
		*0.421	*2.206				
		*0.202	*1.664				
		*0.101	*1.355				
		*0.017	*1.122				

SHIMIZU		AL-III-7U		ST. NO. 500001 FMAX= 7.00 TON/PILE		40/3/18	
1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LGAU (TON)	DEFLECTION (CH)	LOAD (TON)	DEFLECTION (CH)	LOAD (TON)	DEFLECTION (CH)	LOAD (TON)	DEFLECTION (CH)
0.017	0, 0.593	0, 0.052	0, 0.158	0, 0.035	0, 0.040	0, 0.121	0, 0.395
0.310	0, 1.027	0, 0.47	0, 0.27	0, 0.34	0, 0.30	0, 0.293	0, 0.948
0.430	1, 0.96	0, 0.58	1, 0.541	0, 0.516	1, 0.185	0, 0.585	1, 0.956
0.688	1, 0.96	0, 0.843	2, 0.449	0, 0.740	2, 0.212	0, 0.791	2, 0.726
0.912	2, 0.607	1, 0.084	3, 0.124	0, 0.98	3, 0.042	1, 0.032	3, 0.397
1, 170	3, 0.318	1, 307	3, 911	1, 221	3, 792	1, 256	4, 187
1, 428	4, 1.48	1, 548	4, 503	1, 479	4, 543	1, 531	5, 017
1, 669	4, 701	1, 769	5, 572	1, 789	5, 491	1, 789	5, 807
1, 909	5, 991	2, 047	6, 044	2, 030	6, 241	2, 047	6, 557
2, 167	6, 02	2, 271	6, 676	2, 356	6, 834	2, 305	7, 288
2, 425	6, 834	2, 460	7, 647	2, 477	7, 466	2, 511	7, 979
2, 649	7, 564	2, 701	7, 900	2, 883	8, 177	2, 769	8, 650
2, 907	8, 137	2, 941	8, 690	2, 855	8, 690	2, 976	9, 322
3, 148	8, 009	3, 199	9, 362	3, 079	9, 322	3, 251	10, 073
3, 389	9, 020	3, 475	10, 152	3, 329	10, 744	3, 475	10, 655
3, 664	10, 073	3, 715	10, 744	3, 836	11, 376	3, 681	11, 258
3, 870	10, 05	3, 905	11, 218	4, 111	12, 006	3, 922	11, 229
4, 042	11, 258	4, 145	12, 008	4, 369	12, 798	4, 180	12, 640
4, 335	11, 32	4, 386	12, 601	4, 644	13, 391	4, 455	13, 951
4, 558	12, 082	4, 627	13, 233	4, 051	14, 023	4, 679	13, 983
4, 851	13, 035	4, 851	16, 825	5, 074	14, 615	4, 954	14, 694
5, 091	13, 46	5, 109	14, 497	5, 115	15, 287	5, 246	15, 384
5, 418	14, 457	5, 332	15, 089	5, 607	15, 998	5, 687	16, 116
5, 676	15, 168	5, 607	15, 761	5, 865	16, 669	5, 745	16, 867
6, 020	16, 037	5, 883	16, 551	6, 089	17, 301	6, 003	17, 059
6, 261	16, 748	6, 140	17, 064	6, 313	17, 775	6, 209	16, 012
6, 748	17, 894	6, 330	17, 854	6, 553	16, 486	6, 116	16, 005
6, 863	18, 249	6, 915	19, 257	6, 829	19, 116	6, 339	19, 118
7, 069	18, 881	7, 087	19, 750	7, 069	19, 829	6, 915	19, 869
7, 173	19, 671	7, 345	20, 422	7, 310	20, 461	7, 00	21, 00
7, 035	19, 592	7, 517	20, 856	7, 534	21, 054	6, 674	20, 303
6, 880	19, 513	6, 966	18, 145	7, 379	21, 054	6, 510	20, 106
6, 639	19, 039	6, 725	19, 61	7, 018	20, 698	6, 244	19, 592
6, 123	18, 052	6, 588	19, 474	6, 794	20, 501	5, 969	18, 861
5, 900	17, 057	6, 361	19, 039	6, 502	19, 750	5, 711	18, 565
5, 521	17, 025	6, 192	19, 000	6, 209	19, 079	4, 919	17, 341
5, 315	16, 332	5, 917	18, 170	5, 917	18, 684	4, 765	16, 432
5, 028	15, 398	5, 625	17, 31	5, 711	18, 210	4, 593	16, 077
4, 747	15, 326	5, 401	16, 96	5, 504	17, 775	4, 317	15, 484
4, 524	14, 734	5, 143	16, 551	5, 229	17, 104	4, 077	14, 813

表-8-6 交番荷重試験 III, 7U(続き)

SHIMIZU	AL=III=7U	ST.NO. 500D-1		FMAX= 7,00 TON/PILE		40/3/18	
		1 CYCLE		2 CYCLE		3 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
4,266	14,181	4,902	15,958	5,040	16,551	3,870	14,378
4,145	14,023	4,627	15,366	4,730	16,245	3,647	13,825
3,939	13,509	4,455	15,049	4,507	15,366	3,526	13,568
3,715	12,996	4,231	14,497	4,266	14,931	3,320	13,114
3,492	12,482	4,094	14,102	4,111	14,576	3,148	12,601
3,234	11,850	3,870	13,628	3,991	14,299	2,890	11,969
2,959	11,139	3,612	13,114	3,715	13,667	2,735	11,574
2,769	10,744	3,389	12,601	3,457	13,034	2,494	10,942
2,563	10,152	3,165	12,008	3,217	12,364	2,339	10,347
2,322	9,599	2,976	11,534	3,062	12,048	2,150	9,994
2,064	8,888	2,804	11,179	2,821	11,416	1,927	9,441
1,875	8,374	2,615	10,626	2,563	10,784	1,720	8,848
1,669	7,861	2,391	10,033	2,374	10,270	1,447	8,256
1,445	7,189	2,202	9,520	2,202	9,796	1,307	7,703
1,221	6,518	1,978	8,927	2,013	9,322	1,187	7,308
1,015	5,886	1,806	8,374	1,789	8,651	0,877	6,360
0,843	5,570	1,600	7,782	1,776	7,426	0,723	5,886
0,757	5,135	1,359	7,189	1,158	6,873	0,465	5,056
0,602	4,140	1,118	6,399	0,895	6,044	0,258	4,108
0,413	3,911	0,895	5,767	0,671	5,333	0,017	3,061
0,189	2,923	0,688	5,135	0,551	4,582	0,	0,119
0,017	2,291	0,447	3,900	0,361	3,832	*0,241	*0,751
*0,017	*0,046	0,186	2,805	0,172	3,121	*0,165	*1,736
*0,089	*0,395	0,052	2,449	0,017	2,528	*0,688	*2,647
*0,379	*1,146	*0,017	*0,040	0,	-0,079	*0,929	*3,634
*0,534	*2,133	*0,447	*1,501	*0,189	*0,553	*1,187	*4,385
*0,551	*3,002	*0,671	*2,449	*0,379	*1,462	*1,145	*5,372
*1,084	*3,674	*0,942	*3,239	*0,619	*2,489	*1,737	*6,281
*1,342	*4,464	*1,100	*4,148	*0,826	*3,121	*1,978	*7,189
*1,669	*5,491	*1,411	*4,701	*1,067	*3,911	*2,219	*7,821
*1,944	*6,281	*1,660	*5,609	*1,325	*4,740	*2,425	*8,572
*2,167	*7,031	*1,875	*6,139	*1,548	*5,609	*2,126	*9,283
*2,408	*7,703	*2,054	*6,794	*1,737	*6,320	*2,059	*10,281
*2,649	*8,335	*2,271	*7,666	*1,978	*6,834	*3,117	*10,902
*2,924	*9,204	*2,511	*8,256	*2,219	*7,663	*3,440	*11,574
*3,217	*10,073	*2,752	*9,006	*2,494	*8,455	*3,664	*12,245
*3,475	*11,784	*3,010	*9,577	*2,752	*9,401	*3,187	*12,917
*3,733	*11,574	*3,251	*10,349	*3,010	*10,035	*4,145	*13,667
*3,991	*10,166	*3,509	*11,258	*3,284	*10,784	*4,169	*11,260
*4,249	*12,956	*3,750	*11,929	*3,495	*11,495	*4,575	*14,852

表- 8 - 6 文番荷重試験 III, 7 U(続表)

SHIMIZU	AL=III=7U	ST. NO.	1 CYCLE			2 CYCLE			3 CYCLE			4 CYCLE			40/3/18
			LOAD (TON)	DEFLECTION (CM)											
*4.489	*13.667		*3.975	*12.406		*3.715	*12.206		*4.833	*15.603		*5.057	*16.393		
*4.730	*14.220		*4.231	*13.554		*3.956	*12.996		*5.332	*15.332		*5.332	*16.183		
*4.971	*15.010		*4.489	*13.865		*4.214	*13.588		*5.556	*15.556		*5.556	*17.094		
*5.229	*15.721		*4.715	*14.576		*4.403	*14.378		*5.745	*15.745		*5.745	*18.447		
*5.553	*16.274		*4.971	*15.68		*4.679	*14.892								
*5.711	*16.986		*5.229	*15.998		*4.868	*15.563		*7.400	*22.000					
*5.886	*17.696		*5.453	*16.669		*5.074	*16.314		*5.332	*19.276		*5.332	*19.012		
*6.244	*18.407		*5.711	*17.341		*5.281	*16.669		*6.816	*17.459		*6.816	*17.459		
*6.519	*19.197		*5.951	*18.091		*5.504	*17.459								
*6.700	*21.500		*6.227	*18.763		*5.745	*18.170		*6.249	*16.748		*6.249			
*5.986	*19.276		*6.435	*19.337		*5.986	*18.526		*6.991	*15.919					
*5.43	*18.407		*7.400	*21.000		*6.141	*19.158		*5.715	*15.208		*5.715			
*5.160	*17.775		*5.642	*19.116		*6.347	*19.197		*5.475	*14.615		*5.475			
*4.702	*17.143		*5.465	*18.565		*6.588	*19.197		*5.148	*13.825		*5.148			
*4.661	*16.551		*5.263	*18.911		*7.500	*22.000		*2.890	*12.917		*2.890			
*4.438	*16.116		*4.986	*17.576		*6.261	*19.197		*2.580	*11.969		*2.580			
*4.449	*15.524		*4.730	*16.127		*5.607	*19.197		*2.305	*11.179		*2.305			
*4.025	*15.089		*4.421	*16.156		*5.315	*18.842		*2.081	*10.626		*2.081			
*3.779	*14.457		*4.094	*15.445		*5.109	*18.170		*1.823	*9.757		*1.823			
*3.661	*13.904		*3.836	*14.555		*4.919	*17.854		*1.565	*8.927		*1.565			
*3.537	*13.272		*3.561	*14.141		*4.765	*17.420		*1.376	*8.335		*1.376			
*3.079	*12.680		*3.303	*13.350		*4.507	*16.867		*1.153	*7.703		*1.153			
*2.821	*11.850		*2.815	*12.640		*4.266	*16.630		*0.843	*6.755		*0.843			
*2.683	*11.574		*2.769	*11.850		*4.077	*15.670		*0.705	*6.241		*0.705			
*2.660	*10.823		*2.511	*11.779		*3.858	*15.326		*0.482	*5.333		*0.482			
*2.219	*10.231		*2.443	*10.902		*3.595	*14.694		*0.327	*4.424		*0.327			
*1.995	*9.559		*2.235	*10.110		*3.354	*14.102		*0.189	*3.792		*0.189			
*1.889	*9.006		*2.050	*9.717		*3.045	*13.154		*0.052	*3.002		*0.052			
*1.600	*8.453		*1.806	*9.085		*2.804	*12.719								
*1.393	*7.742		*1.555	*8.774		*2.580	*11.111								
*1.239	*7.347		*1.307	*7.584		*2.425	*11.574								
*1.167	*6.755		*1.011	*6.152		*2.185	*10.665								
*0.929	*6.399		*0.912	*6.360		*2.030	*10.668								
*0.774	*5.846		*0.723	*5.807		*1.789	*9.480								
*0.551	*5.175		*0.561	*5.135		*1.563	*9.006								
*0.361	*4.108		*0.379	*4.227		*1.428	*8.532								
*0.189	*3.437		*0.319	*3.437		*1.256	*7.700								
*0.035	*2.884		*0.017	*2.844		*1.067	*7.347								

SHIMIZU	AL=III=7U	ST. NO.	500D+1	F MAX= 7,00 TON/PILE	40/3/18	4 CYCLE			
						1 CYCLE		2 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
"0.499	"5.451	"0.293	"4.395	"0.138	"3.595	"0.035	"3.121		

ST. NO.	5000U-1	FMAX= 6,00 TON/PILE	40/3/16					
			1 CYCLE		2 CYCLE		3 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
SHIMIZU	At-III-SU							
0.017	-0.416	0.051	0.116	0.137	0.638			
0.615	-2.206	0.581	2.206	0.161	2.262			
1.127	-2.786	1.161	3.251	0.822	3.132			
1.554	-4.380	1.656	4.876	1.176	4.408			
2.015	-5.689	2.169	6.502	1.154	5.684			
2.527	-7.314	2.664	8.243	1.345	6.960			
3.022	-8.324	3.142	9.869	2.374	8.294			
3.519	-10.449	3.654	11.376	2.681	9.686			
4.013	-11.842	4.132	12.771	3.039	10.904			
4.508	-13.552	4.610	14.280	3.369	11.948			
5.003	-14.745	5.088	15.674	3.740	13.108			
5.464	-16.338	5.601	17.067	4.181	14.268			
5.959	-17.415	6.130	18.576	4.405	15.254			
6.472	-18.924	6.642	20.085	4.781	16.414			
6.950	-20.201	7.172	21.595	5.157	17.516			
7.441	-21.595	7.682	22.988	5.532	18.734			
7.906	-22.988	8.094	24.739	5.908	19.836			
8.060	-24.149	7.820	24.225	6.267	20.880			
7.633	-23.568	7.342	23.548	6.1625	21.982			
7.018	-22.175	6.881	22.497	7.008	23.026			
6.779	-21.943	6.369	21.479	7.377	24.186			
6.233	-20.666	5.840	20.388	7.718	25.230			
5.763	-19.505	5.396	19.233	8.042	26.216			
5.299	-18.576	5.054	18.576	8.213	27.086			
4.747	-17.145	4.542	17.299	8.025	26.738			
4.235	-16.138	4.152	16.870	7.650	25.926			
3.825	-15.209	3.603	14.970	7.377	25.172			
3.261	-13.700	3.174	13.816	7.018	24.186			
2.800	-12.428	2.664	12.123	6.694	23.664			
2.322	-11.146	2.169	11.030	6.250	22.620			
1.810	-9.636	1.708	9.636	5.874	21.808			
1.366	-8.243	1.212	8.127	5.447	20.822			
0.886	-6.734	0.717	6.502	5.003	19.662			
0.316	-4.992	0.188	4.180	4.576	18.676			
-0.037	-0.132	0.017	3.983	4.030	17.226			
*0.581	*2.206	*0.051	*0.116	3.637	16.124			
-1.14	*-0.412	*0.631	*2.338	3.279	15.254			
*1.656	*6.153	*1.110	*1.180	2.954	14.326			
*2.169	*8.011	*1.605	*4.921	2.578	13.166			
*2.664	*9.636	*2.117	*7.779	2.237	12.122			

表-8-7 交番荷重試験 III, 8 U

SHIMIZU	AL=III-BU	ST, NO.		P _{MAX} = 8,00 TON/PILE	4D/3/18	
		1 CYCLE	2 CYCLE		LOAD (TON)	DEFLECTION (CM)
*3.159	*11,262	*2,677	*9,520	1,844	10,962	
*3.654	*12,771	*3,142	*11,262	1,486	9,802	
*4.115	*14,164	*3,671	*13,003	1,144	8,700	
*4.776	*15,557	*4,199	*14,513	0,803	7,440	
*5.003	*16,835	*4,627	*16,022	0,393	6,032	
*5.430	*18,112	*5,140	*17,647	0,068	4,592	
*5.891	*19,377	*5,652	*12,389	0	4,116	
*6.420	*21,362	*6,181	*21,014	-0,059	0,058	
*7.001	*23,220	*6,194	*22,640	-0,444	-1,150	
*7,513	*24,845	*7,155	*24,149	-0,786	-3,132	
*7,991	*26,819	*7,667	*25,774	-1,230	-4,582	
*7,974	*27,516	*8,060	*27,748	-1,588	-5,974	
*7,701	*27,051	*7,786	*27,167	-1,913	-7,134	
*7,412	*26,355	*7,359	*26,355	-2,21	-8,168	
*6,821	*24,962	*6,938	*25,310	-2,681	-9,918	
*6,454	*24,265	*6,420	*24,033	-3,039	-11,194	
*5,925	*22,988	*5,891	*22,756	-3,391	-12,528	
*5,430	*21,731	*5,345	*21,362	-3,757	-13,746	
*4,867	*20,818	*4,901	*20,201	-4,132	-15,080	
*4,645	*19,737	*4,405	*18,808	-4,508	-16,356	
*4,030	*18,112	*4,115	*18,112	-4,849	-17,458	
*3,518	*16,118	*3,552	*16,602	-5,106	-18,444	
*3,005	*15,209	*3,074	*15,093	-5,164	-19,488	
*2,630	*14,144	*2,613	*13,816	-5,891	-20,996	
*2,100	*12,259	*2,220	*12,655	-6,267	-22,156	
*1,622	*11,030	*1,810	*11,578	-6,591	-23,316	
*1,230	*9,552	*1,298	*9,636	-6,333	-24,360	
*0,564	*7,430	*0,820	*7,895	-7,223	-25,636	
*0,103	*5,108	*0,307	*5,689	-7,145	-26,274	
*0,017	*4,760	*0,103	*4,644	-7,735	-27,434	
		-0,017	-4,412	-8,100	-28,500	
				-7,333	-27,702	
				-7,001	-26,390	
				-6,574	-25,404	
				-5,557	-24,418	
				-5,532	-23,664	
				-5,174	-22,736	
				-4,875	-21,808	
				-4,875	-20,680	

表—8—7 交番荷重試験 III, 8 U(続き)

SHIMIZU		AL-III-8U		ST.NO. 5000#1		FMAX= 8.00 TON/PILE		40/3/18	
1 CYCLE		2 CYCLE		3 CYCLE					
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
"4,457	"19,836	"4,098	"18,334	"3,740	"17,690	"3,364	"16,446	"3,022	"15,544
"2,681	"14,442	"2,322	"13,340	"1,981	"12,160	"1,656	"11,020	"1,332	"9,918
"0,956	"8,584	"0,529	"6,902	"0,222	"5,046	"0,103	"4,292		

表-8-7 交番荷重試験 III, .8 U(続き)

SHIMIZU	AL=III=70	ST.NO. 5000-1		FMAX= 7,00 TON/PILE	40/3/19		
		1 CYCLE	2 CYCLE		LOAD	DEFLECTION	
(TON)	(CM)	(TON)	(CM)	(TON)	(CM)	(TON)	(CM)
0.034	0.163	0.017	1.086	0.051	0.163	0.017	0.109
0.492	1.140	0.458	1.303	0.441	1.240	0.441	1.466
0.648	2.552	0.797	2.715	0.844	2.824	0.831	3.041
1.237	3.855	1.170	4.018	1.204	4.235	1.237	4.761
1.627	5.159	1.492	5.159	1.543	5.539	1.598	5.919
2,000	6,462	1,834	6,407	1,876	6,842	1,949	7,222
2,373	7,765	2,204	7,819	2,254	8,091	2,305	8,471
2,780	9,022	2,627	9,251	2,661	9,448	2,695	9,828
3,170	10,126	3,051	10,534	3,134	10,697	3,034	10,769
3,509	11,620	3,407	11,729	3,407	11,892	3,339	12,000
3,882	12,815	3,780	12,978	3,797	13,195	3,746	13,304
4,272	14,064	4,119	14,064	4,221	14,498	4,170	14,715
4,627	15,150	4,526	15,367	4,644	15,856	4,594	16,073
5,000	16,336	4,916	16,507	5,085	17,213	4,935	17,159
5,373	17,485	5,305	17,756	5,475	18,290	5,272	18,191
5,729	19,462	5,729	18,951	5,831	19,439	5,611	19,277
6,102	19,548	6,119	20,200	6,221	20,580	5,985	20,363
6,492	20,743	6,509	21,286	6,594	21,666	6,373	21,557
6,882	21,929	6,865	22,263	7,034	23,023	6,814	22,752
7,085	22,806	7,221	23,675	7,051	25,403	7,051	23,838
7,017	22,906	7,034	23,458	6,763	22,915	6,763	23,295
6,775	21,611	6,661	22,698	6,560	22,535	6,424	22,389
6,085	21,068	6,288	21,992	6,119	21,557	6,167	21,154
5,524	19,874	5,899	21,014	5,289	19,711	5,865	21,286
5,873	19,439	5,760	20,525	5,051	19,277	5,526	20,688
4,983	18,516	5,204	19,548	4,695	18,408	5,085	19,602
4,543	17,322	4,933	18,931	4,407	17,648	4,712	18,334
4,221	16,616	4,577	18,028	4,068	16,835	4,322	17,648
3,949	15,664	4,102	16,719	3,195	15,747	4,000	16,887
3,644	15,258	3,814	16,019	3,441	15,044	3,627	15,747
3,322	14,390	3,644	15,530	3,085	14,118	3,255	14,770
2,966	13,358	3,286	14,444	2,712	13,032	3,882	13,684
2,662	12,435	2,868	13,466	2,539	11,946	2,543	12,652
2,661	12,380	2,456	12,380	1,983	10,806	2,167	11,566
2,204	11,186	2,204	11,620	1,644	9,720	1,882	10,534
1,848	10,100	1,933	10,914	1,305	8,688	1,576	9,557
1,475	8,960	1,610	9,720	1,000	7,656	1,271	8,525
1,136	7,819	1,254	8,525	0,644	6,298	0,898	7,276
0,831	6,788	0,932	7,548	0,356	4,778	0,526	5,702
0,559	5,539	0,631	6,462	0,034	0,054	0,119	3,747

SHIMIZU	Al=III=70	1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
		LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0,136	3,910	0,373	4,096	*0,441	*1,466	0,034	3,149		
0,	3,312	0,051	5,584	*0,729	*2,987	*0,065	*0,326		
*0,054	*0,054	*0,034	*0,054	*1,085	*4,456	*0,456	*1,575		
*0,458	*1,303	*0,441	*1,112	*1,498	*5,864	*0,746	*3,149		
*0,797	*2,878	*0,780	*3,041	*1,831	*7,222	*1,102	*4,616		
*4,204	*4,344	*1,136	*4,398	*2,560	*9,937	*1,441	*5,756		
*5,593	*5,810	*1,509	*5,756	*2,932	*11,294	*1,814	*7,158		
*1,966	*7,113	*1,699	*7,222	*3,288	*12,994	*2,187	*8,525		
*2,339	*8,417	*2,271	*8,334	*3,661	*13,701	*2,577	*9,937		
*2,695	*9,720	*2,644	*9,991	*3,983	*14,933	*2,932	*11,294		
*3,068	*11,077	*3,017	*11,349	*4,272	*16,019	*3,288	*12,543		
*6,458	*12,435	*3,41	*12,435	*4,577	*17,050	*3,678	*13,901		
*3,814	*13,738	*3,814	*14,019	*4,933	*18,191	*4,034	*15,150		
*4,204	*15,041	*4,102	*15,041	*5,238	*19,385	*4,390	*16,144		
*4,577	*16,236	*4,458	*16,237	*5,577	*20,363	*4,763	*17,702		
*4,933	*17,485	*4,831	*17,485	*5,946	*21,557	*5,017	*18,353		
*5,356	*18,842	*5,187	*18,679	*6,306	*22,752	*5,187	*19,059		
*5,661	*19,929	*5,594	*19,982	*6,645	*23,892	*5,545	*20,308		
*6,000	*20,651	*5,983	*21,286	*6,712	*24,544	*5,899	*21,003		
*6,306	*21,883	*6,356	*22,460	*7,017	*24,869	*6,221	*22,643		
*6,661	*23,078	*6,543	*23,349	*6,933	*25,141	*6,645	*24,001		
*6,862	*24,164	*6,678	*23,783	*7,102	*25,250	*7,068	*25,358		
*7,204	*25,032	*6,984	*24,544	*7,204	*26,227	*7,136	*25,064		
*6,831	*24,706	*7,187	*25,738	*6,712	*27,149	*6,865	*25,667		
*6,289	*25,783	*6,645	*25,250	*6,221	*23,892	*6,661	*25,087		
*5,933	*22,752	*6,373	*24,598	*5,916	*23,295	*6,580	*24,869		
*5,695	*21,912	*6,119	*23,332	*5,777	*24,426	*6,306	*24,381		
*5,289	*20,960	*5,543	*21,937	*5,170	*21,177	*6,068	*24,055		
*4,983	*20,091	*5,000	*20,743	*4,746	*20,091	*5,38	*22,503		
*4,678	*19,994	*4,712	*19,494	*4,441	*19,439	*4,631	*20,254		
*4,255	*18,082	*4,356	*18,896	*4,153	*18,353	*4,407	*19,168		
*3,949	*17,376	*4,509	*18,619	*3,780	*17,648	*4,136	*18,028		
*3,577	*16,373	*4,068	*18,028	*3,039	*16,019	*3,729	*17,430		
*3,305	*15,313	*3,644	*16,592	*3,102	*15,421	*3,305	*15,856		
*2,681	*14,109	*3,407	*15,964	*2,814	*14,39n	*2,814	*14,281		
*2,526	*12,978	*3,051	*14,878	*2,560	*13,521	*2,695	*13,901		
*2,187	*11,937	*2,678	*13,708	*1,170	*12,380	*2,254	*12,489		
*1,831	*10,997	*2,305	*12,652	*1,848	*11,186	*2,034	*11,857		
*1,664	*10,046	*1,932	*11,349	*1,475	*9,937	*1,831	*11,023		
*1,639	*9,348	*1,627	*10,263	*1,170	*8,797	*1,509	*9,937		

表-8 - 8 交番荷重試験 III, 7 D(続き)

SHIMIZU	AL=III=70	ST.NO.	5000+1	FMAX= 7,00 TON/PILE	40/3/19		
					1 CYCLE		2 CYCLE
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
=1.305	=6.905	=1.305	=9.014	=0.814	=7.548	=1.187	=8.797
=0.966	=7.765	=1.000	=8.036	=0.509	=6.027	=0.831	=7.548
=0.510	=6.245	=0.644	=6.125	=0.085	=4.073	=0.509	=5.864
=0.220	=4.453	=0.352	=4.996	0,	=3.634	=0.102	=4.073
=0.034	=3.638	=0.051	=3.855			=0.017	=3.692

表-8-8 交番荷重試験 III, 7 D

SHIMIZU	AL=III=60	ST, NO. 5000+1 FMAX= 6,00 TON/PILE				40/3/19			
		1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.051	0.109	0.034	0.109	0.034	0.109	0.034	0.109	0.034	0.109
0.526	1.520	0.475	1.466	0.509	1.412	0.509	1.412	0.492	1.412
0.882	3.095	0.814	2.932	0.848	2.715	0.848	2.715	0.814	2.932
1.305	4.724	1.204	4.398	1.170	4.018	1.170	4.018	1.170	4.280
1.729	6.245	1.543	5.647	1.543	5.267	1.543	5.267	1.576	5.756
2.119	7.602	1.882	6.842	1.932	6.625	1.932	6.625	1.932	7.113
2.475	8.905	2.238	8.145	2.271	7.874	2.271	7.874	2.526	9.122
2.882	10.263	2.610	9.340	2.644	9.177	2.644	9.177	2.682	10.571
3.255	11.366	3.000	10.697	3.086	10.534	3.086	10.534	3.255	11.20
3.661	12.869	3.424	12.000	3.420	11.675	3.420	11.675	3.627	12.815
4.051	14.064	3.780	13.195	3.763	12.815	3.763	12.815	4.001	14.064
4.373	15.258	4.102	14.227	3.886	14.009	3.886	14.009	4.373	15.204
4.729	16.256	4.475	15.421	4.526	15.204	4.526	15.204	4.763	16.264
5.068	17.322	4.865	16.616	4.899	16.399	4.899	16.399	5.153	17.393
5.390	18.408	5.119	17.322	5.272	17.530	5.272	17.530	5.441	18.478
5.729	19.331	5.356	18.082	5.495	18.788	5.495	18.788	5.729	19.277
6.017	20.363	5.729	19.168	6.102	19.928	6.102	19.928	6.051	20.363
6.068	20.388	6.085	20.471	6.306	20.634	6.306	20.634	6.221	20.851
5.762	20.991	5.848	20.037	6.373	21.008	6.373	21.008	5.899	20.308
5.678	19.874	5.577	19.385	6.289	20.797	6.289	20.797	5.599	19.548
5.255	19.059	5.153	18.462	6.120	20.417	6.120	20.417	5.068	18.408
4.865	17.973	4.695	17.322	5.865	19.982	5.865	19.982	4.888	17.865
4.577	17.330	4.456	16.779	5.441	19.005	5.441	19.005	4.441	16.779
4.170	16.736	4.051	15.693	5.034	18.136	5.034	18.136	4.119	16.019
3.966	15.801	3.678	14.770	4.661	17.105	4.661	17.105	3.763	15.095
3.894	15.041	3.305	13.792	4.378	16.398	4.378	16.398	3.441	14.227
3.303	14.009	3.000	12.923	4.034	15.530	4.034	15.530	3.051	13.141
2.985	13.086	2.661	11.946	3.678	14.498	3.678	14.498	2.797	12.272
2.678	12.218	2.271	10.697	3.339	13.629	3.339	13.629	2.077	11.077
2.339	11.186	1.915	9.557	3.068	12.815	3.068	12.815	2.085	10.208
2.054	10.263	1.543	8.362	2.814	12.109	2.814	12.109	1.678	9.905
1.678	9.122	1.204	7.226	2.424	10.914	2.424	10.914	1.356	7.819
1.424	8.471	0.882	6.136	2.113	10.100	2.113	10.100	1.034	6.733
1.237	7.548	0.576	4.778	1.848	9.611	1.848	9.611	0.729	5.539
0.882	6.462	0.273	3.204	1.899	9.394	1.899	9.394	0.458	4.073
0.559	5.050	0.034	2.444	1.576	8.308	1.576	8.308	0.109	4.237
0.204	3.421	-0.017	-0.163	1.254	7.276	1.254	7.276	0.576	1.955
0.034	2.661	-0.475	-1.961	0.949	6.082	0.949	6.082	0.898	8.801
-0.017	-0.217	-0.814	-3.032	0.644	4.941	0.644	4.941	1.237	1.519
-0.441	-1.901	-1.187	-5.104	0.356	3.421	0.356	3.421	1.644	6.625

SHIMIZU	AL-III-60	ST, NO. 5000+1 FMAX= 6,00 TON/PILE				40/3/19			
		1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.763	*3.530	*1.543	*6.353	0.051	2.172	*2.054	*6.036		
1.153	*1.941	*1.899	*7.711	*0.017	*0.109	*2.390	*19.503		
1.560	*6.462	*2.286	*9.231	*0.475	*1.629	*2.781	*10.860		
1.352	*8.874	*2.661	*10.354	*0.797	*3.367	*3.187	*12.272		
2.254	*9.122	*3.017	*11.129	*1.170	*4.778	*4.577	*13.521		
2.644	*10.534	*3.356	*13.086	*1.560	*6.299	*3.899	*14.661		
3.051	*12.000	*3.729	*14.281	*1.949	*7.656	*4.238	*15.856		
3.509	*13.521	*4.083	*15.367	*2.339	*9.177	*4.526	*16.724		
3.699	*14.824	*4.300	*16.399	*2.729	*10.645	*4.780	*17.593		
4.272	*16.019	*4.526	*16.996	*3.102	*11.892	*5.155	*18.786		
4.509	*16.942	*4.814	*17.810	*3.475	*13.141	*5.926	*20.037		
4.446	*17.539	*5.119	*18.051	*3.831	*14.444	*5.882	*21.068		
5.051	*18.734	*5.475	*20.091	*4.221	*15.693	*6.221	*22.372		
5.724	*19.874	*5.862	*21.340	*4.640	*16.656	*6.289	*22.752		
5.95	*20.851	*6.119	*22.480	*4.611	*16.996	*5.712	*21.449		
6.034	*21.886	*5.814	*21.829	*4.865	*17.810	*5.289	*20.308		
6.187	*22.643	*5.359	*20.488	*5.136	*18.734	*4.814	*19.059		
6.102	*22.535	*5.119	*19.982	*5.526	*19.475	*4.814	*18.299		
5.729	*21.611	*5.034	*19.982	*5.899	*21.125	*4.119	*17.376		
5.272	*20.743	*5.034	*19.982	*6.255	*22.585	*5.678	*16.181		
4.644	*19.365	*5.051	*19.982	*6.255	*22.643	*5.305	*14.770		
4.526	*18.462	*4.112	*19.339	*6.051	*22.100	*2.899	*13.684		
4.187	*17.648	*4.373	*18.245	*6.865	*22.774	*2.509	*12.326		
3.966	*17.105	*3.966	*17.105	*5.644	*21.286	*2.254	*11.512		
3.610	*16.019	*3.500	*16.019	*5.204	*20.091	*1.814	*10.154		
3.339	*15.150	*3.187	*14.715	*4.899	*19.494	*1.458	*8.797		
3.017	*14.335	*2.180	*13.521	*4.441	*18.028	*1.119	*7.602		
2.627	*13.195	*2.017	*12.218	*3.966	*16.670	*0.712	*5.919		
2.238	*11.837	*1.983	*10.969	*3.712	*15.638	*0.441	*4.398		
1.831	*10.371	*1.746	*9.91	*3.356	*15.095	*0.170	*3.204		
1.712	*9.991	*1.441	*9.014	*3.051	*14.064	*0.017	*2.606		
1.424	*9.066	*1.204	*8.145	*2.712	*13.032				
1.085	*7.874	*0.882	*6.950	*2.373	*12.055				
0.780	*6.679	*0.545	*5.376	*2.034	*10.914				
0.475	*5.213	*0.170	*3.584	*1.712	*9.774				
0.102	*3.475	*0.017	*2.878	*1.390	*8.742				
0.034	*2.678			*1.085	*7.516				
				*0.695	*5.973				
				*0.339	*4.073				
				*0.034	*2.824				

表-8-9 交番荷重試験 III, 6 D

SHIMIZU	AL=III-5D	ST, NO. 5000=1		FMAX= 5.00 TON/PILE	40/3/19	
		1 CYCLE	LOAD DEFLECTION (TON) (CM)	2 CYCLE	LOAD DEFLECTION (TON) (CM)	3 CYCLE
0.034	0.189	0.034	0.163	0.017	0.217	0.017
0.492	1.358	0.509	1.575	0.124	1.515	0.424
0.797	2.878	0.780	2.987	0.112	2.115	1.466
1.170	4.290	1.136	4.235	0.051	3.964	2.987
1.543	5.593	1.543	5.702	1.441	5.430	4.326
1.882	6.950	1.899	7.005	1.831	6.842	5.864
2.234	8.254	2.254	8.254	2.204	8.145	8.634
2.678	9.210	2.610	9.448	2.177	9.394	9.858
3.051	10.914	2.949	10.697	2.966	10.643	11.077
3.407	12.163	3.322	11.837	3.339	11.892	12.222
3.814	13.412	3.695	12.978	3.712	13.086	13.466
4.255	14.824	4.068	14.172	4.085	14.227	14.661
4.695	16.127	4.407	15.204	4.339	14.987	15.004
5.000	17.213	4.814	16.453	4.627	16.019	16.996
5.085	17.593	5.000	17.322	4.288	15.258	4.695
4.933	17.322	4.882	17.105	3.916	4.255	15.367
4.492	16.236	4.441	16.181	3.577	13.629	3.999
4.119	15.367	4.000	15.041	3.204	12.543	4.594
3.865	14.715	3.577	14.009	2.831	11.566	4.950
3.475	13.684	3.153	12.706	2.458	10.371	4.695
3.071	12.598	2.814	11.837	2.119	9.503	4.255
2.621	11.512	2.441	10.697	1.848	8.688	10.589
2.305	10.317	2.051	9.557	1.509	7.548	9.552
1.945	9.285	1.661	8.254	1.119	6.245	8.308
1.553	8.091	1.265	7.059	0.780	5.050	7.113
1.288	7.113	0.949	5.919	0.441	3.475	4.373
0.915	5.810	0.627	4.507	0.034	1.683	3.041
0.576	4.235	0.339	2.967	0.017	0	3.683
0.136	2.226	0.051	1.446	0.475	1.738	0.054
0.	1.629	0.017	0.054	0.848	0.530	0.051
*0.017	*0.109	*0.441	*1.659	*1.254	*5.104	*0.682
*0.492	*1.738	*0.780	*5.367	*1.644	*6.516	*3.747
*0.780	*3.367	*1.187	*4.887	*2.034	*7.982	*5.721
*1.543	*6.299	*1.932	*7.765	*2.814	*10.643	*6.956
*1.887	*6.887	*1.543	*6.245	*2.458	*9.394	*8.362
*2.373	*2.733	*9.340	*10.751	*3.577	*13.141	*2.085
*2.819	*9.231	*2.733	*3.186	*12.456	*3.949	*3.238
*2.805	*9.231	*3.186	*3.441	*4.322	*15.747	*12.489
*2.678	*10.426	*3.831	*3.831	*4.695	*16.770	*13.684
*3.334	*11.783	*4.335	*4.335	*4.204	*15.801	*14.935
*3.890	*13.082	*4.831	*4.831	*4.695	*16.770	*15.801

表-8-10 交番荷重試験 III, 5 D(続き)

表-8-10 交番荷重試験 III, 5 D

SHIMIZU	AL=III=5D	ST, NU, 5000*1		FMAX= 5,00 TON/PILE		40/3/19	
		1 CYCLE LOAD (TON)	DEFLECTION (CM)	2 CYCLE LOAD (TON)	DEFLECTION (CM)	3 CYCLE LOAD (TON)	DEFLECTION (CM)
-3,763	*14,281	*4,268	*16,127	*4,950	*17,919	*4,458	*16,453
-4,170	*15,638	*4,543	*16,724	*4,797	*17,648	*4,814	*16,756
-4,560	*16,887	*4,848	*17,756	*4,492	*17,050	*4,560	*17,267
-4,983	*16,191	*5,017	*18,516	*4,119	*16,019	*4,170	*16,507
-5,356	*19,494	*4,983	*18,462	*3,729	*14,967	*3,948	*15,421
-5,763	*20,743	*4,797	*18,028	*3,339	*13,847	*3,390	*14,172
-6,017	*21,829	*4,475	*17,376	*3,085	*13,161	*3,000	*12,978
-5,628	*21,177	*4,204	*16,453	*2,746	*12,000	*2,593	*11,783
-4,814	*19,114	*3,848	*15,584	*2,475	*11,240	*2,124	*11,294
-3,848	*16,562	*3,407	*14,498	*2,085	*9,937	*2,051	*10,046
-3,492	*15,258	*3,017	*13,249	*1,729	*8,797	*1,678	*8,793
-2,882	*13,304	*2,610	*12,000	*1,373	*7,493	*1,322	*7,493
-2,580	*12,072	*2,254	*10,806	*1,034	*6,245	*0,966	*6,190
-2,283	*11,240	*1,848	*9,394	*0,560	*4,670	*0,576	*4,561
-1,915	*10,100	*1,610	*8,525	*0,288	*2,824	*0,288	*2,878
-1,593	*9,068	*1,204	*7,168	*0,061	*1,792	*0,034	*1,846
-1,221	*7,711	*0,831	*5,719				
-0,848	*6,353	*0,475	*4,265				
-0,543	*4,724	*0,136	*2,389				
-0,130	*2,769	0.	-1,792				
-0,017	*2,226						

SHIMIZU	AL-III*4D	ST.NO. 5000#1 FMAX= 4,00 TON/PILE				40/3/19			
		1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.016	0.052	0.024	0.052	0.024	0.104	0.016	0.052	0.03	0.052
0.411	5.253	0.403	1.293	0.411	1.305	0.403	1.005	0.403	1.005
0.735	2.349	0.735	2.349	0.749	2.455	0.717	2.297	0.717	2.297
1.087	3.706	1.047	3.02	1.119	3.863	1.063	3.654	1.063	3.654
1.491	4.959	1.377	4.955	1.457	5.063	1.401	4.907	1.401	4.907
2.755	6.107	1.656	5.846	1.739	6.160	1.739	6.055	1.739	6.055
2.117	7.412	1.490	6.807	1.707	7.308	2.109	7.360	2.109	7.360
2.443	8.561	2.302	8.195	2.415	8.404	2.447	8.509	2.447	8.509
2.826	9.761	2.713	9.396	2.745	9.500	2.761	9.553	2.761	9.553
3.164	10.805	3.055	10.440	3.115	10.649	3.132	10.701	3.132	10.701
3.470	11.797	3.341	11.536	3.461	11.693	3.824	12.841	3.824	12.841
3.800	12.789	3.731	12.528	3.792	12.729	4.154	13.729	4.154	13.729
4.170	13.833	4.065	13.572	4.150	13.624	4.492	14.981	4.492	14.981
4.524	15.451	4.347	14.512	4.371	14.459	4.146	14.303	4.146	14.303
4.057	14.198	4.370	14.668	4.299	14.303	3.840	13.624	3.840	13.624
5.751	13.572	4.057	13.990	4.146	14.042	3.478	12.632	3.478	12.632
3.405	12.632	3.632	12.67	3.800	13.863	3.156	11.798	3.156	11.798
5.107	11.849	3.373	12.267	3.437	12.374	2.834	10.858	2.834	10.858
2.785	10.962	3.059	11.484	3.099	11.494	2.504	10.022	2.504	10.022
2.463	10.022	2.761	10.701	2.745	10.544	2.222	9.167	2.222	9.167
2.166	9.135	2.391	9.605	2.426	9.657	1.868	8.145	1.868	8.145
1.852	8.143	2.01	8.77	2.174	8.874	1.578	7.151	1.578	7.151
1.562	7.256	1.779	7.569	1.852	7.882	1.272	6.160	1.272	6.160
1.272	6.264	1.481	6.786	1.558	6.890	0.942	5.041	0.942	5.041
0.934	5.063	1.159	5.690	1.262	5.899	0.588	3.706	0.588	3.706
0.644	3.967	0.821	4.489	0.910	4.802	0.266	2.192	0.266	2.192
0.314	2.506	0.667	3.132	0.752	3.550	0.016	1.566	0.016	1.566
0.008	1.253	0.129	1.566	0.258	2.008	0.024	0.104	0.024	0.104
*0.024	*0.104	0.	1.357	0.008	1.462	*0.459	*1.618	*0.459	*1.618
*0.451	*1.566	*0.024	-0.104	-0.032	-0.052	*0.797	*3.080	*0.797	*3.080
*0.765	*2.671	*0.467	*1.566	*0.451	*1.566	*1.167	*4.541	*1.167	*4.541
*1.111	*4.226	*0.735	*2.875	*0.755	*2.923	*5.742	*1.489	*5.742	*1.489
*1.449	*5.585	*1.339	*1.124	*1.087	*4.380	*1.489	*1.489	*1.489	*1.489
*1.795	*6.682	*1.401	*5.377	*1.441	*5.377	*6.352	*1.047	*6.352	*1.047
*2.117	*7.934	*1.765	*6.682	*1.731	*6.577	*2.214	*9.553	*2.214	*9.553
*2.447	*9.031	*2.093	*7.882	*2.061	*7.778	*2.050	*10.597	*2.050	*10.597
*2.818	*10.285	*2.447	*9.135	*2.415	*8.874	*3.172	*11.641	*3.172	*11.641
*3.099	*11.223	*2.85	*10.231	*2.69	*10.127	*3.486	*12.632	*3.486	*12.632
*3.373	*12.245	*3.124	*11.432	*3.091	*11.223	*3.824	*13.633	*3.824	*13.633
*3.735	*13.207	*3.518	*12.632	*3.373	*12.518	*4.090	*14.773	*4.090	*14.773

SHIMIZU	AL-LII=4D	ST.NO. 5000D-1		FMAX= 4,00 TON/PILE	40/3/19	
		1 CYCLE	2 CYCLE		LOAD (TON)	DEFLECTION (CM)
*4,049	*14,407	*3,776	*13,624	*3,719	*13,363	*4,347
*4,484	*15,973	*4,122	*14,564	*4,041	*14,355	*4,516
*4,122	*15,242	*4,355	*15,242	*4,476	*15,921	*4,122
*3,743	*14,251	*4,508	*16,025	*4,386	*15,190	*3,846
*3,421	*13,368	*4,170	*15,295	*3,596	*14,564	*3,470
*3,051	*12,539	*3,832	*14,355	*3,574	*13,624	*2,987
*2,802	*13,441	*3,582	*13,729	*3,226	*11,685	*2,761
*2,471	*10,649	*3,180	*12,685	*2,922	*11,954	*1,441
*2,101	*9,448	*2,834	*11,693	*2,641	*11,641	*1,455
*1,836	*6,613	*2,222	*9,866	*2,391	*10,283	*1,657
*1,505	*7,517	*1,932	*8,874	*2,085	*9,344	*1,514
*1,200	*6,368	*1,626	*7,830	*1,03	*8,456	*1,167
*0,894	*5,324	*1,296	*6,682	*1,522	*7,517	*0,845
*0,539	*3,015	*1,006	*5,690	*1,224	*6,473	*0,507
*0,254	*2,053	*0,692	*4,385	*0,934	*5,377	*0,169
*0,040	*1,618	*0,419	*3,184	*0,580	*4,019	*1,514
		*0,040	*1,618	*0,282	*2,558	
		0,	*1,409	*0,032	*1,514	

表-8 - 11 交番荷重試験 III , 4 D

SHIMIZU	AL=III-30	ST, NO. 500U*1		FMAX= 3,00 TON/PILE	40/3/19	
		LOAD (TON)	DEFLECTION (CM)		LOAD (TON)	DEFLECTION (CM)
1 CYCLE						
0,	0.052	0.024	0.052	0.024	0.052	0.016
0.242	0.835	0.322	0.992	0.274	0.783	0.274
0.491	1.118	0.572	1.827	0.555	1.775	0.515
0.773	2.553	0.845	2.767	0.781	2.558	1.723
0.998	3.550	1.095	3.654	1.055	3.550	1.039
1.272	4.353	1.377	4.750	1.328	4.541	1.280
1.554	5.481	1.602	5.481	1.602	5.533	1.546
1.844	6.473	1.844	6.316	1.884	6.473	1.779
2.117	7.112	2.101	7.204	2.133	7.360	2.053
2.351	8.352	2.327	7.987	2.423	8.195	2.302
2.657	9.355	2.624	8.822	2.773	9.031	2.568
2.890	9.970	2.850	9.761	2.946	9.709	2.826
3.180	10.912	3.115	10.283	3.204	10.649	3.091
3.381	11.388	3.462	11.014	3.338	11.171	3.309
3.397	11.641	3.307	11.014	3.059	10.544	3.478
3.301	11.484	3.260	11.014	2.737	9.761	3.349
3.204	11.223	3.156	10.858	2.504	9.187	3.035
2.914	10.544	2.906	10.356	2.138	8.456	2.769
2.641	9.114	2.689	9.553	1.997	7.726	2.512
2.399	9.239	2.463	9.083	1.755	6.995	2.124
2.158	8.509	2.254	8.613	1.522	6.316	2.045
1.924	7.882	2.024	7.778	1.256	5.481	1.811
1.658	6.995	1.771	7.047	0.998	4.594	1.002
1.417	6.764	1.554	6.494	1.757	3.758	1.369
1.192	5.585	1.312	5.638	0.531	2.619	1.159
0.926	4.646	1.087	4.907	0.314	1.984	0.916
0.676	3.706	0.870	4.124	0.089	1.409	0.749
0.467	2.714	0.620	3.256	0	1.044	0.572
0,	1.305	0.169	1.670	0	0.330	0.080
*0.016	*0.157	0.008	1.06	*0.016	*0.104	0.095
*0.298	*1.044	*0.016	*0.052	*0.572	*2.192	1.670
*0.548	*2.140	*0.350	*1.06	*1.071	*4.176	3.080
*0.629	*3.341	*0.556	*2.142	*1.361	*5.063	2.192
*1.111	*4.385	*0.829	*3.236	*1.578	*6.003	3.497
*1.409	*5.481	*1.095	*4.385	*1.892	*6.995	*1.159
*1.715	*6.525	*1.417	*5.129	*2.149	*7.934	*1.457
*1.964	*7.304	*1.707	*6.525	*2.391	*8.770	*1.666
*2.222	*8.300	*1.948	*7.112	*2.665	*9.709	*1.932
*2.528	*9.292	*2.280	*8.352	*2.930	*10.492	*2.198

表-8-12 交番荷重試験 III, 3 D(続々)

SHIMIZU	AL+III+SD	ST. NO. 5000#1		F MAX= 3.00 TON/PILE		40/3/19	
		1 CYCLE LOAD (TON)	DEFLECTION (CM)	2 CYCLE LOAD (TON)	DEFLECTION (CM)	3 CYCLE LOAD (TON)	DEFLECTION (CM)
*2,785	*10,179	*2,504	*9,292	*3,164	*11,327	*2,383	*8,926
*3,067	*11,171	*2,745	*10,127	*3,365	*12,215	*2,632	*9,814
*3,293	*11,693	*3,027	*11,014	*3,204	*11,797	*2,810	*10,231
*3,191	*11,536	*3,240	*11,102	*3,124	*11,598	*3,085	*11,223
*2,819	*10,805	*3,319	*12,110	*2,842	*10,910	*3,252	*11,902
*2,152	*10,127	*3,349	*12,058	*2,560	*10,127	*3,590	*12,841
*2,335	*9,553	*3,075	*11,588	*2,270	*9,292	*3,478	*12,632
*2,101	*6,874	*2,761	*10,858	*1,997	*8,456	*3,156	*11,849
*1,150	*6,091	*2,956	*10,179	*1,795	*7,830	*2,914	*11,119
*1,610	*7,308	*2,2710	*9,292	*1,530	*7,047	*2,649	*10,544
*1,393	*6,629	*2,005	*8,717	*1,296	*6,212	*2,439	*9,761
*1,167	*5,899	*1,63	*7,778	*1,079	*5,481	*2,182	*9,135
*0,910	*5,011	*1,514	*7,047	*0,829	*4,646	*1,980	*8,509
*0,668	*4,072	*1,46	*6,160	*0,572	*3,550	*1,795	*7,984
*0,475	*3,132	*0,974	*5,220	*0,354	*2,06	*1,594	*7,256
*0,217	*2,036	-0,709	*4,280	-0,065	*1,357	*1,385	*6,525
*0,008	*1,201	*0,91	*3,236	0,	-1,096	*1,167	*5,794
		*0,242	*2,140		*0,982	*0,982	*5,168
		*0,032	*1,305		*0,749	*0,749	*4,280
					*0,507	*0,507	*3,132
					*0,274	*2,140	
					*0,040	*1,201	

表—8—12 交番荷重試験 III, 3 D

SHIMIZU	AL=III=2D	ST. NO.	5000D=1	FMAX# 2.00 TON/PILE	4 CYCLE				3 CYCLE				4 CYCLE			
					1 CYCLE		2 CYCLE		LOAD (TON)		DEFLECTION (CM)		LOAD (TON)		DEFLECTION (CM)	
					LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.016	0.052	0.024	0.052	0.023	0.078	0.039	0.104	0.306	1.148	0.334	1.070	0.342	1.148	1.537	1.186	1.070
0.024	0.035	0.016	0.040	0.020	0.042	0.034	0.070	0.568	2.088	0.575	2.192	0.568	2.088	1.525	2.192	0.575
0.023	1.775	0.556	1.984	0.829	2.714	0.848	3.158	0.848	3.158	0.824	3.106	0.848	3.158	0.824	3.106	0.824
0.023	2.553	0.826	2.714	1.079	3.654	1.104	4.228	1.104	4.228	1.065	4.072	1.065	4.228	1.065	4.072	1.065
0.014	3.893	1.079	3.893	1.079	3.654	1.104	4.228	1.104	4.228	1.065	4.072	1.065	4.228	1.065	4.072	1.065
1.264	4.280	1.288	4.385	1.288	4.385	1.345	5.037	1.345	5.037	1.314	4.985	1.314	5.037	1.314	4.985	1.314
1.514	5.168	1.554	5.220	1.554	5.220	1.610	6.029	1.610	6.029	1.563	5.925	1.563	6.029	1.563	5.925	1.563
1.779	6.107	1.827	6.212	1.827	6.212	1.882	6.995	1.882	6.995	1.827	6.890	1.827	6.995	1.827	6.890	1.827
2.061	7.047	2.085	6.995	2.085	6.995	2.110	7.961	2.110	7.961	2.107	7.779	2.107	7.961	2.107	7.779	2.107
2.302	7.882	2.407	8.091	2.407	8.091	2.162	8.091	2.162	8.091	2.309	8.744	2.309	8.091	2.309	8.744	2.309
2.359	8.404	2.319	7.882	2.319	7.882	1.967	7.621	1.967	7.621	1.773	7.204	1.773	7.621	1.773	7.204	1.773
1.536	5.751	2.045	7.204	2.045	7.204	1.703	6.917	1.703	6.917	1.555	6.577	1.555	6.917	1.555	6.577	1.555
1.224	5.063	1.811	6.577	1.811	6.577	1.415	6.029	1.415	6.029	1.306	5.794	1.306	6.029	1.306	5.794	1.306
0.974	4.228	1.562	5.951	1.562	5.951	1.551	5.168	1.551	5.168	1.084	5.033	1.084	5.168	1.084	5.033	1.084
0.765	3.612	1.328	5.220	1.328	5.220	0.894	4.359	0.894	4.359	0.855	4.228	0.855	4.359	0.855	4.228	0.855
0.507	2.506	1.079	4.385	1.079	4.385	0.561	3.497	0.561	3.497	0.607	3.210	0.607	3.497	0.607	3.210	0.607
0.282	1.784	0.813	3.550	0.813	3.550	0.443	2.401	0.443	2.401	0.381	2.271	0.381	2.401	0.381	2.271	0.381
0.065	1.148	0.548	2.550	0.548	2.550	0.125	1.331	0.125	1.331	0.117	1.005	0.117	1.331	0.117	1.005	0.117
0.024	0.887	0.298	1.931	0.298	1.931	0.016	0.835	0.016	0.835	0.016	0.614	0.016	0.835	0.016	0.614	0.016
*0.531	*1.984	*0.016	*0.733	*0.016	*0.733	*0.311	*1.070	*0.311	*1.070	*0.319	*1.096	*0.319	*1.070	*0.319	*1.096	*0.319
*0.813	*3.080	*0.023	*1.070	*0.023	*1.070	*0.568	*2.271	*0.568	*2.271	*0.583	*2.323	*0.583	*2.271	*0.583	*2.323	*0.583
*1.063	*4.228	*0.288	*1.827	*0.288	*1.827	*0.840	*3.524	*0.840	*3.524	*0.886	*3.680	*0.886	*3.524	*0.886	*3.680	*0.886
*1.353	*5.063	*0.529	*2.938	*0.529	*2.938	*1.120	*4.568	*1.120	*4.568	*1.559	*4.776	*1.559	*4.568	*1.559	*4.776	*1.559
*1.586	*6.003	*0.809	*4.150	*0.809	*4.150	*1.376	*5.716	*1.376	*5.716	*1.423	*5.846	*1.423	*5.716	*1.423	*5.846	*1.423
*2.125	*7.726	*1.089	*5.324	*1.089	*5.324	*1.680	*6.734	*1.680	*6.734	*1.687	*6.864	*1.687	*6.734	*1.687	*6.864	*1.687
*2.359	*8.561	*1.361	*6.368	*1.361	*6.368	*1.905	*7.360	*1.905	*7.360	*1.983	*7.961	*1.983	*7.360	*1.983	*7.961	*1.983
*2.552	*9.448	*1.602	*7.308	*1.602	*7.308	*2.162	*8.561	*2.162	*8.561	*2.084	*8.717	*2.084	*8.561	*2.084	*8.717	*2.084
*2.327	*8.978	*1.835	*8.145	*1.835	*8.145	*2.372	*9.527	*2.372	*9.527	*1.866	*9.708	*1.866	*9.527	*1.866	*9.708	*1.866
*2.069	*8.248	*2.084	*9.033	*2.084	*9.033	*2.154	*8.978	*2.154	*8.978	*1.617	*7.073	*1.617	*8.978	*1.617	*7.073	*1.617
*1.836	*7.569	*2.255	*9.892	*2.255	*9.892	*1.889	*8.169	*1.889	*8.169	*1.537	*6.186	*1.537	*8.169	*1.537	*6.186	*1.537
*1.626	*6.943	*2.278	*10.049	*2.278	*10.049	*1.633	*7.360	*1.633	*7.360	*1.104	*5.403	*1.104	*7.360	*1.104	*5.403	*1.104
*1.109	*6.264	*2.309	*9.970	*2.309	*9.970	*1.376	*6.525	*1.376	*6.525	*0.848	*4.463	*0.848	*6.525	*0.848	*4.463	*0.848
*1.200	*5.533	*2.255	*9.944	*2.255	*9.944	*1.135	*5.716	*1.135	*5.716	*0.575	*3.289	*0.575	*5.716	*0.575	*3.289	*0.575
*0.998	*8.802	*2.045	*9.448	*2.045	*9.448	*0.894	*4.829	*0.894	*4.829	*0.381	*2.375	*0.381	*4.829	*0.381	*2.375	*0.381
*0.692	*3.811	*1.796	*8.665	*1.796	*8.665	*0.630	*3.732	*0.630	*3.732	*0.109	*1.253	*0.109	*3.732	*0.109	*1.253	*0.109
*0.467	*2.662	*1.540	*7.004	*1.540	*7.004	*0.436	*2.714	*0.436	*2.714	*0.023	*0.661	*0.023	*2.714	*0.023	*0.661	*0.023
*0.193	*1.566	*1.322	*7.151	*1.322	*7.151	*0.148	*1.488	*0.148	*1.488	*1.488	*1.488	*1.488	*1.488	*1.488	*1.488	*1.488
*0.040	*0.992	*1.089	*6.316	*1.089	*6.316	*0.016	*0.966	*0.016	*0.966	*0.966	*0.966	*0.966	*0.966	*0.966	*0.966	*0.966
			*0.840		*0.840											

SHIMIZU		AL=III=2D		ST, NO. 5000+1 FMAX= 2,00 TON/PILE		40/319	
1 CYCLE		2 CYCLE		3 CYCLE		4 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
*0.560	*4.226						
*0.319	*3.054						
*0.093	*2.166						
*0.003	*1.827						

表-8-13 交番荷重試験 III, 2 D

SHIMIZU	AL-LIII-IU	ST.NO.	DG=1	FMAX= 1,00 TON/PILE	40/3/21	1 CYCLE	
						LOAD (TON)	DEFLECTION (CM)
0,	0,	0,	0,	0,	0,	0,125	0,300
0,250	0,250	0,250	0,655	0,655	0,655	0,250	0,300
0,375	0,375	0,375	1,040	1,040	1,040	0,375	0,300
0,500	0,500	0,500	1,455	1,455	1,455	0,500	0,300
0,625	0,625	0,625	1,880	1,880	1,880	0,625	0,300
0,750	0,750	0,750	2,290	2,290	2,290	0,750	0,300
0,875	0,875	0,875	2,715	2,715	2,715	0,875	0,300
1,000	1,000	1,000	3,135	3,135	3,135	1,000	0,300
0,940	0,940	0,940	3,060	3,060	3,060	0,940	0,300
0,875	0,875	0,875	2,870	2,870	2,870	0,875	0,300
0,750	0,750	0,750	2,550	2,550	2,550	0,750	0,300
0,625	0,625	0,625	2,195	2,195	2,195	0,625	0,300
0,500	0,500	0,500	1,820	1,820	1,820	0,500	0,300
0,375	0,375	0,375	1,440	1,440	1,440	0,375	0,300
0,250	0,250	0,250	1,030	1,030	1,030	0,250	0,300
0,125	0,125	0,125	0,690	0,690	0,690	0,125	0,300
0,	0,	0,	0,240	0,240	0,240	0,	0,300
*0,125	*0,125	*0,125	*0,190	*0,190	*0,190	*0,125	*0,300
*0,250	*0,250	*0,250	*0,580	*0,580	*0,580	*0,250	*0,300
*0,375	*0,375	*0,375	*1,040	*1,040	*1,040	*0,375	*0,300
*0,500	*0,500	*0,500	*1,455	*1,455	*1,455	*0,500	*0,300
*0,625	*0,625	*0,625	*1,880	*1,880	*1,880	*0,625	*0,300
*0,750	*0,750	*0,750	*2,290	*2,290	*2,290	*0,750	*0,300
*0,875	*0,875	*0,875	*2,710	*2,710	*2,710	*0,875	*0,300
*1,000	*1,000	*1,000	*3,140	*3,140	*3,140	*1,000	*0,300
*0,938	*0,938	*0,938	*3,000	*3,000	*3,000	*0,938	*0,300
*0,870	*0,870	*0,870	*2,330	*2,330	*2,330	*0,870	*0,300
*0,748	*0,748	*0,748	*2,505	*2,505	*2,505	*0,748	*0,300
*0,623	*0,623	*0,623	*2,160	*2,160	*2,160	*0,623	*0,300
*0,500	*0,500	*0,500	*1,805	*1,805	*1,805	*0,500	*0,300
*0,375	*0,375	*0,375	*1,040	*1,040	*1,040	*0,375	*0,300
*0,250	*0,250	*0,250	*1,010	*1,010	*1,010	*0,250	*0,300
*0,125	*0,125	*0,125	*0,580	*0,580	*0,580	*0,125	*0,300
0,	0,	0,	=0,190	=0,190	=0,190	0,	=0,300

SHIMIZU AL=1111-2U ST, NO. DG-1 FMAX= 2.00 TON/PILE

40/3/21

1 CYCLE	2 CYCLE			
	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.	"0.150	0.	"0.325	
0.248	0.620	0.250	0.480	
0.496	1.480	0.500	1.775	
0.750	2.320	0.750	2.265	
1.000	3.150	1.000	3.160	
1.250	4.000	1.248	4.020	
1.500	4.880	1.500	4.870	
1.748	5.720	1.750	5.720	
1.998	6.550	2.000	6.550	
1.875	6.300	1.875	6.280	
1.743	5.980	1.750	5.980	
1.493	5.300	1.500	5.305	
1.253	4.610	1.250	4.590	
1.000	3.830	1.000	3.830	
0.750	3.010	0.750	3.040	
0.500	2.180	0.500	2.200	
0.250	1.300	0.250	1.320	
0.	0.430	0,	0.420	
- 0.250	0.	0.370		
- 0.250	0.	0.480		
"0.500	"1.390			
"0.750	"2.240			
"1.000	"3.100			
"1.250	"4.805			
"1.750	"5.665			
"1.998	"6.505			
"1.875	"6.255			
"1.748	"5.935			
"1.500	"5.265			
"1.250	"4.555			
"1.000	"3.805			
"0.750	"3.005			
"0.500	"2.175			
"0.250	"1.285			
0.	"0.415			

SHIMIZU	AL=IIII=3U	ST.NO.	DG=1	FMAX= 3,00 TON/FILE	40/3/21
1. CYCLE		2. CYCLE			
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)
0.	0.270	0.	-0.550		
*0.250	*0.480	0.250	0.270		
*0.500	*1.350	0.500	1.180		
*0.750	*2.280	0.750	2.070		
*1.000	*3.100	1.000	2.975		
*1.250	*3.920	1.250	3.865		
*1.500	*4.820	1.500	4.735		
*1.750	*5.670	1.750	5.625		
*2.000	*6.470	2.000	6.480		
*2.250	*7.350	2.250	7.300		
*2.500	*8.145	2.500	8.150		
*2.750	*8.990	2.750	9.010		
*3.000	*9.800	3.000	9.840		
*2.870	*9.530	2.875	9.660		
*2.750	*9.250	2.750	9.360		
*2.500	*8.590	2.500	8.750		
*2.250	*7.920	2.240	8.040		
*2.000	*7.350	2.000	7.385		
*1.750	*6.510	1.745	6.685		
*1.503	*5.770	1.500	5.900		
*1.250	*4.970	1.250	5.095		
*1.018	*4.150	1.000	4.295		
*0.790	*3.280	0.750	3.435		
*0.500	*2.400	0.500	2.555		
*0.250	*1.520	0.250	1.635		
0.	0.590	0.	0.735		
		0.	0.675		
		*0.250	*0.155		
		*0.500	*1.075		
		*0.750	*1.965		
		*1.000	*2.865		
		*1.250	*3.735		
		*1.500	*4.615		
		*1.750	*5.555		
		*2.000	*6.435		
		*2.250	*7.155		
		*2.500	*8.005		
		*2.750	*8.850		
		*3.000	*9.555		
		*2.865	*9.375		

表-9-3 交番荷重試験 IV, 3.0 U(続ぎ)

SHIMIZU		AL=III=3U		ST.NO.	DG=1	FMAX= 3,00 TON/PILE	40/3/21
1 CYCLE		2 CYCLE					
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)				
		*2,750	*9,105				
		*2,100	*8,475				
		*2,250	*7,795				
		*1,193	*7,075				
		*1,750	*6,365				
		*1,500	*5,615				
		*1,250	*4,825				
		*1,000	*3,995				
		*0,750	*3,155				
		*0,500	*2,265				
		*0,250	*1,345				
	0,	0,	*0,435				

SHIMIZU		AL=III=4U	ST, NO.	DG=1	FMAX= 4,00 TON/PILE	40/3/21
		1. CYCLE		2. CYCLE		
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	
0,	"0.275	0,	"0.470			
0,250	0.515	0,250	0.370			
0,500	1.115	0,500	1.275			
0,750	2.315	0,750	2.220			
1,000	3.215	1,000	3.140			
1,250	4.105	1,250	4.060			
1,500	4.965	1,500	4.945			
1,750	5.815	1,750	5.810			
2,000	6.665	2,000	6.685			
2,248	7.485	2,250	7.545			
2,500	8.325	2,500	8.400			
2,750	9.125	2,750	9.225			
3,000	9.925	3,000	10.035			
3,250	10.725	3,250	10.895			
3,500	11.560	3,500	11.695			
3,750	12.370	3,750	12.465			
4,000	13.170	4,000	13.255			
3,875	12.950	3,873	13.010			
3,750	12.675	3,750	12.735			
3,500	12,080	3,500	12,145			
3,250	11.450	3,250	11.525			
3,000	10.780	2,995	10.830			
2,750	10.110	2,750	10.185			
2,500	9.420	2,500	9,500			
2,250	8,700	2,250	8,765			
1,995	7.930	2,000	8,035			
1,750	7,180	1,750	7,265			
1,500	6.395	1,500	6,405			
1,250	5,570	1,250	5,675			
1,000	4,730	1,000	4,820			
0,750	3,860	0,750	3,935			
0,500	2,940	0,500	3,035			
0,250	2,010	0,250	2,035			
0,	1,110	0,	1,115			
0,	0,770	0,				
*0,255	0,130					
*0,500	*0,765					
*0,750	*1,700					
*1,005	*2,640					
*1,253	*3,550					

表-9-4 交番荷重試験 N, 4.0 U(続き)

SHIMIZU	AL-1111-4U	ST.NO.	DG=1	P MAX = 4,00 TON/PILE	
				1 CYCLE	
LOAD (TON)	DEFLECTION (CM)	LOAD (TON)	DEFLECTION (CM)	2 CYCLE	
*1,500	*4,420				
*1,750	*5,310				
*2,000	*6,185				
*2,250	*7,045				
*2,500	*7,890				
*2,750	*8,715				
*3,000	*9,545				
*3,250	*10,390				
*3,500	*11,240				
*3,750	*12,000				
*4,000	*12,840				
*3,845	*12,535				
*3,750	*12,335				
*3,500	*11,730				
*3,250	*11,120				
*3,000	*10,440				
*2,753	*9,760				
*2,500	*9,030				
*2,250	*8,330				
*2,000	*7,580				
*1,750	*6,795				
*1,500	*6,000				
*1,253	*5,170				
*1,000	*4,110				
*0,750	*3,420				
*0,500	*2,500				
*0,250	*1,540				
0,	0,				

表 - 10 - 1 強制振動試験 I , 0.2 U 表 - 10 - 2 強制振動試験 I , 0.3 U 表 - 10 - 3 強制振動試験 I , 0.4 U

SHIMIZU SV=I=0.2U		SHIMIZU SV=I=0.3U		SHIMIZU SV=I=0.4U	
ST.NO. 5000=1 (40/3/5)		ST.NO. 5000=1 (40/3/5)		ST.NO. 5000=1 (40/3/5)	
EXCITING FREQUENCY (HZ)	DISPLACEMENT AMPLITUDE (CM)	EXCITING FREQUENCY (HZ)	DISPLACEMENT AMPLITUDE (CM)	EXCITING FREQUENCY (HZ)	DISPLACEMENT AMPLITUDE (CM)
0.345	0.385	0.395	0.570	0.470	0.820
0.395	0.365	0.450	0.625	0.500	0.755
0.430	0.460	0.510	0.715	0.550	1.025
0.495	0.445	0.550	0.740	0.590	1.215
0.530	0.430	0.615	1.010	0.635	1.430
0.595	0.595	0.655	1.185	0.665	2.285
0.650	0.745	0.700	1.720	0.755	7.390
0.685	0.930	0.740	2.515	0.770	15.550
0.720	1.335	0.755	3.035	0.810	12.400
0.745	2.345	0.775	8.585	0.755	8.895
0.775	6.060	0.770	6.490	0.860	2.595
0.800	4.425	0.800	7.415	0.890	1.985
0.795	2.255	0.810	5.710	0.880	1.465
0.880	1.220	0.915	0.825	1.045	0.760
0.925	0.710	0.935	1.150	1.230	0.350
1.015	0.475	1.055	0.605	1.245	0.315
1.220	0.210	1.230	0.825	1.045	0.755
1.465	0.105	1.530	0.260	0.940	1.280
1.495	0.120	2.045	0.090	0.810	3.950
1.225	0.240	1.550	0.220	0.870	1.845
1.030	0.505	1.235	0.385	0.840	3.465
0.930	0.735	1.050	0.630	0.770	5.685
0.985	1.225	0.940	1.155	0.830	5.095
0.920	2.430	0.900	1.665	0.760	1.150
0.785	5.170	0.860	2.500	0.750	8.905
0.405	6.225	0.840	3.470	0.760	15.250
0.580	6.315	0.810	4.810	0.690	2.955
0.780	5.250	0.800	7.720	0.635	1.830
0.740	3.455	0.765	9.975	0.600	1.645
0.695	1.740	0.705	2.565	0.560	1.245
0.670	1.180	0.670	1.805	0.490	0.890
0.585	0.615	0.625	1.225	0.455	0.355
0.550	0.595	0.550	0.860		
0.505	0.485	0.495	0.700		
0.435	0.345	0.440	0.650		
0.385	0.350	0.390	0.630		
0.365	0.470				

ST. NO.	SHIMIZU SV=1=0.5	ST. NO.	SHIMIZU SV=1=0.1
EXCITING FREQUENCY (Hz)	DISPLACEMENT AMPLITUDE (cm)	EXCITING FREQUENCY (Hz)	DISPLACEMENT AMPLITUDE (cm)
0.505	1.405	0.385	0.590
0.540	1.375	0.390	0.555
0.610	1.940	0.425	0.515
0.625	1.890	0.485	0.690
0.700	4.445	0.540	0.795
0.730	8.840	0.610	1.160
0.735	9.295	0.640	1.150
0.755	14.750	0.690	2.335
0.790	16.650	0.735	4.645
0.765	13.200	0.760	8.780
0.805	12.500	0.755	7.020
0.795	10.950	0.660	6.985
0.855	3.165	0.775	5.995
0.905	1.935	0.835	2.920
0.935	1.650	0.695	1.375
0.995	1.150	0.940	0.885
0.960	1.595	1.060	0.565
0.900	2.320	1.235	0.280
0.850	3.370	1.255	0.330
0.815	.11.00	1.040	0.565
0.795	13.450	0.955	1.030
0.740	9.565	0.915	1.340
0.765	16.550	0.840	2.575
0.740	11.000	0.805	3.775
0.740	15.150	0.775	6.705
0.670	3.710	0.760	8.225
0.650	3.350	0.740	8.110
0.590	2.045	0.725	7.280
0.565	1.865	0.700	2.840
0.515	1.690	0.590	1.160

ST. NO.	SHIMIZU SV=1=1 (40/3/6)	ST. NO.	SHIMIZU SV=1=1 (40/3/6)
EXCITING FREQUENCY (Hz)	DISPLACEMENT AMPLITUDE (cm)	EXCITING FREQUENCY (Hz)	DISPLACEMENT AMPLITUDE (cm)
0.505	1.405	0.385	0.590
0.540	1.375	0.390	0.555
0.610	1.940	0.425	0.515
0.625	1.890	0.485	0.690
0.700	4.445	0.540	0.795
0.730	8.840	0.610	1.160
0.735	9.295	0.640	1.150
0.755	14.750	0.690	2.335
0.790	16.650	0.735	4.645
0.765	13.200	0.760	8.780
0.805	12.500	0.755	7.020
0.795	10.950	0.660	6.985
0.855	3.165	0.775	5.995
0.905	1.935	0.835	2.920
0.935	1.650	0.695	1.375
0.995	1.150	0.940	0.885
0.960	1.595	1.060	0.565
0.900	2.320	1.235	0.280
0.850	3.370	1.255	0.330
0.815	.11.00	1.040	0.565

ST. NO.	SHIMIZU SV=1=1 (40/3/6)	ST. NO.	SHIMIZU SV=1=1 (40/3/6)
EXCITING FREQUENCY (Hz)	DISPLACEMENT AMPLITUDE (cm)	EXCITING FREQUENCY (Hz)	DISPLACEMENT AMPLITUDE (cm)
0.505	1.405	0.385	0.590
0.540	1.375	0.390	0.555
0.610	1.940	0.425	0.515
0.625	1.890	0.485	0.690
0.700	4.445	0.540	0.795
0.730	8.840	0.610	1.160
0.735	9.295	0.640	1.150
0.755	14.750	0.690	2.335
0.790	16.650	0.735	4.645
0.765	13.200	0.760	8.780
0.805	12.500	0.755	7.020
0.795	10.950	0.660	6.985
0.855	3.165	0.775	5.995
0.905	1.935	0.835	2.920
0.935	1.650	0.695	1.375
0.995	1.150	0.940	0.885
0.960	1.595	1.060	0.565
0.900	2.320	1.235	0.280
0.850	3.370	1.255	0.330
0.815	.11.00	1.040	0.565

表-10-4 強制振動試験 I , 0.5 U

表-10-5 強制振動試験 I , 0.4 D

表-10-6 強制振動試験 I , 0.2 D

SHIMIZU Sv=II=0.1U				SHIMIZU Sv=II=0.2U				SHIMIZU Sv=II=0.3U				SHIMIZU Sv=II=0.4U			
ST.NO. 5000=1 (40/3/14)															
EXCITING FREQUENCY (Hz)	DISPLACEMENT AMPLITUDE (CM)														
0.650	0.360	0.650	0.865	0.650	0.865	0.650	1.555	0.660	1.555	0.660	2.590	0.660	2.590	0.660	2.590
0.705	0.500	0.695	1.190	0.700	2.390	0.700	2.390	0.710	2.390	0.710	4.455	0.710	4.455	0.710	4.455
0.745	0.590	0.730	1.800	0.735	5.000	0.735	5.000	0.735	5.000	0.735	8.995	0.735	8.995	0.735	8.995
0.750	0.735	0.750	3.165	0.750	8.160	0.750	8.160	0.760	8.160	0.760	13.03	0.760	13.03	0.760	13.03
0.755	0.765	0.765	6.355	0.770	10.125	0.770	10.125	0.785	10.125	0.785	5.705	0.785	5.705	0.785	5.705
0.790	1.410	0.800	3.545	0.790	4.320	0.790	4.320	0.810	4.310	0.810	4.310	0.825	3.825	0.825	3.825
0.810	3.450	0.825	2.475	0.820	0.860	0.820	0.860	0.825	0.860	0.825	0.825	0.850	3.020	0.850	3.020
0.830	1.555	0.845	1.820	0.845	2.495	0.845	2.495	0.850	2.495	0.850	2.495	0.860	2.330	0.860	2.330
0.870	1.130	0.865	1.470	0.865	2.030	0.865	2.030	0.880	2.030	0.880	2.030	0.905	1.970	0.905	1.970
0.900	0.855	0.910	0.985	0.910	1.485	0.915	1.485	0.920	1.485	0.920	1.485	0.945	1.970	0.945	1.970
1.010	0.350	1.000	0.525	0.985	0.740	0.985	0.740	1.005	0.740	1.005	0.740	1.090	1.090	1.090	1.090
0.695	0.435	0.900	1.160	0.910	1.545	0.910	1.545	0.925	1.545	0.925	1.545	0.950	1.995	0.950	1.995
0.865	1.280	0.855	1.750	0.870	2.070	0.870	2.070	0.880	2.070	0.880	2.070	0.895	2.560	0.895	2.560
0.850	1.595	0.855	1.815	0.860	2.470	0.860	2.470	0.880	2.470	0.880	2.470	0.895	2.980	0.895	2.980
0.825	2.595	0.820	2.815	0.830	3.530	0.830	3.530	0.850	3.530	0.850	3.530	0.880	4.170	0.880	4.170
0.765	3.725	0.800	4.335	0.805	4.550	0.805	4.550	0.815	4.550	0.815	4.550	0.845	5.475	0.845	5.475
0.755	1.625	0.770	7.295	0.780	8.790	0.780	8.790	0.795	8.790	0.795	8.790	0.825	6.910	0.825	6.910
0.730	0.935	0.755	6.870	0.755	11.040	0.755	11.040	0.765	11.040	0.765	11.040	0.785	15.260	0.785	15.260
0.695	0.640	0.740	3.855	0.745	8.435	0.745	8.435	0.755	8.435	0.755	8.435	0.775	15.885	0.775	15.885
0.650	0.425	0.700	2.280	0.705	3.470	0.705	3.470	0.705	3.470	0.705	3.470	0.730	5.730	0.730	5.730
		0.650	0.930		0.655		0.655		0.655		0.655		0.650		0.650

表-11-1
強制振動試験 II, 0.1 U

表-11-2
強制振動試験 II, 0.2 U

表-11-3
強制振動試験 II, 0.3 U

表-11-4
強制振動試験 II, 0.4 U

表-11-5 強制振動試験

II, 0.5 U 表-11-7 強制振動試験 II, 0.4 D 表-11-7 強制振動試験 II, 0.2 D

SHIMIZU ST.NO.	Sv=II=0.5U 500D=1 (40/3/14)	SHIMIZU ST.NO.	Sv=II=0.4D 500D=1 (40/3/14)
EXCITING FREQUENCY (HZ)	DISPLACEMENT AMPLITUDE (CM)	EXCITING FREQUENCY (HZ)	DISPLACEMENT AMPLITUDE (CM)
EXCITING FREQUENCY (HZ)	DISPLACEMENT AMPLITUDE (CM)	EXCITING FREQUENCY (HZ)	DISPLACEMENT AMPLITUDE (CM)
0.520	1.640	0.655	2.440
0.565	1.900	0.780	5.775
0.605	2.215	0.735	10.700
0.685	4.385	0.750	14.450
0.715	7.820	0.775	5.300
0.735	11.475	0.800	4.485
0.755	16.410	0.820	8.250
0.765	8.150	0.835	7.235
0.820	5.540	0.870	2.400
0.830	4.125	0.910	1.750
0.865	3.050	1.000	1.025
0.880	2.550	0.900	1.895
0.915	1.965	0.970	2.500
0.930	1.455	0.955	1.855
1.055	1.085	0.820	4.060
1.250	0.540	0.804	4.970
1.550	0.255	0.790	7.180
2.050	0.120	0.755	13.890
1.550	0.220	0.750	9.725
1.250	0.530	0.710	7.575
1.040	1.085	0.650	2.685
0.935	1.980		
0.885	2.605		
0.840	3.440		
0.840	4.015		
0.820	5.155		
0.840	6.860		
0.780	10.000		
0.760	17.905		
0.755	18.950		
0.705	7.710		
0.650	3.225		
0.595	2.130		
0.565	1.825		
0.400	0.720		

SHIMIZU	SV=III=0.2U	SHIMIZU	SV=III=0.4U	SHIMIZU	SV=III=0.5U	SHIMIZU	SV=III=0.7U	SHIMIZU	SV=III=0.8U
ST. NO.	5000•1 (40/3/22)								
EXCITING FREQUENCY (HZ)	DISPLACEMENT AMPLITUDE (CM)								
0.355	0.570	0.465	1.325	0.515	2.345	0.520	8.245	0.640	23.315
0.430	0.580	0.505	1.415	0.565	2.335	0.625	9.625	0.650	31.150
0.470	0.575	0.555	1.025	0.600	3.330	0.630	9.450	0.675	37.890
0.520	0.595	0.605	2.580	0.630	5.940	0.705	24.805	0.690	14.480
0.575	0.765	0.625	3.065	0.640	7.765	0.690	25.890	0.705	11.440
0.624	0.975	0.650	5.135	0.690	15.685	0.690	15.535	0.730	7.795
0.670	1.550	0.675	12.005	0.715	8.200	0.710	9.420	0.760	6.095
0.685	1.925	0.705	9.575	0.725	7.145	0.735	6.435	0.785	4.770
0.730	6.270	0.720	6.740	0.760	4.530	0.755	4.940	0.810	4.880
0.740	4.155	0.755	3.985	0.780	3.500	0.780	3.960	0.855	3.355
0.765	2.945	0.775	3.425	0.805	2.985	0.810	3.585	0.902	2.550
0.790	2.040	0.795	2.610	0.855	2.115	0.870	2.710	0.950	1.815
0.805	1.615	0.845	1.110	0.915	1.150	0.915	2.110	1.060	1.425
0.835	1.295	0.890	1.225	0.955	1.154	0.950	1.825	1.265	0.885
0.865	1.090	0.945	0.905	1.050	0.860	1.060	1.050	1.565	0.275
0.930	0.680	1.045	0.645	1.250	0.470	1.250	0.660	1.525	0.350
0.965	0.455	1.285	0.550	1.560	0.230	1.560	0.220	1.210	0.925
1.060	0.370	1.220	0.375	1.140	0.495	1.535	0.350	1.050	1.550
1.255	0.180	1.050	1.735	1.045	0.830	1.350	0.620	0.945	2.115
1.245	0.210	0.920	0.990	0.940	1.325	1.040	1.165	0.900	2.760
1.045	0.390	0.890	1.440	0.885	1.700	0.945	1.620	0.850	3.690
0.940	0.125	0.840	1.880	0.845	2.440	0.880	2.140	0.815	4.845
0.895	0.003	0.800	2.755	0.800	3.400	0.840	2.745	0.780	5.400
0.840	1.290	0.770	3.555	0.775	4.390	0.785	3.740	0.760	7.040
0.805	1.785	0.745	5.260	0.745	5.860	0.785	4.520	0.725	9.780
0.795	1.935	0.715	7.485	0.730	7.155	0.755	5.895	0.710	12.695
0.765	2.755	0.700	11.400	0.715	11.485	0.720	8.870	0.695	18.095
0.750	3.740	0.675	14.195	0.710	12.155	0.705	10.370	0.685	31.665
0.710	6.620	0.640	9.070	0.695	17.215	0.700	12.750	0.670	39.060
0.700	8.110	0.620	4.455	0.655	12.650	0.680	28.750	0.630	36.835
0.675	4.735	0.590	3.010	0.625	6.970	0.640	20.670	0.650	37.260
0.645	1.385	0.555	2.360	0.605	5.560	0.605	8.780		
0.600	1.300	0.500	2.785	0.555	3.135				
0.552	0.815	0.450	1.455	0.500	2.215				
0.495	0.350	0.400	0.510	0.490	1.22 - 2 強制振動試験 III, 0.4 U				

表-12-1 強制振動試験 III, 0.2 U

表-12-3 強制振動試験 III, 0.5 U

表-12-5 強制振動試験 III, 0.8 U

表-12-4 強制振動試験 III, 0.7 U

表-12-4 強制振動試験 III, 0.5 U

表-12-6
強制振動試験 III, 0.7 D

表-12-7
強制振動試験 III, 0.5 D

表-12-8
強制振動試験 III, 0.4 D

表-12-9
強制振動試験 III, 0.2 D

SHIMIZU SV=III=0, 7D		SHIMIZU SV=III=0, 5D		SHIMIZU SV=III=0, 4D		SHIMIZU SV=III=0, 2D	
ST. NO.	5000•1 (40/3/27)	ST. NO.	5000•1 (40/3/22)	ST. NO.	5000•1 (40/3/23)	ST. NO.	5000•1 (40/3/23)
EXCITING FREQUENCY (Hz)	DISPLACEMENT AMPLITUDE (CM)						
0.625	21.200	0.515	2.805	0.470	1.400	0.365	0.805
0.700	28.170	0.260	3.665	0.515	2.160	0.115	7.155
0.675	29.690	0.610	6.645	0.560	2.690	0.460	7.505
0.690	11.040	0.645	15.235	0.610	5.335	0.510	9.470
0.710	8.010	0.670	12.475	0.625	9.490	0.560	12.105
0.740	5.935	0.680	9.925	0.665	15.765	0.610	19.155
0.750	4.880	0.715	6.385	0.685	8.880	0.600	25.260
0.815	3.720	0.735	4.940	0.700	6.960	0.650	47.265
0.855	2.915	0.745	3.985	0.735	4.960	0.670	75.105
0.915	2.080	0.790	2.650	0.760	3.565	0.700	44.980
0.960	1.685	0.850	1.845	0.800	2.445	0.725	35.425
1.040	1.265	0.900	1.410	0.860	1.775	0.755	28.995
1.250	0.730	0.940	1.070	0.915	1.345	0.810	13.905
1.560	0.270	1.045	0.775	0.750	0.900	0.850	9.415
1.555	0.235	1.160	0.440	1.050	0.690	0.910	6.375
1.230	0.795	1.560	0.200	1.240	0.395	0.950	4.090
1.030	1.435	1.530	0.236	1.545	0.210	1.040	3.900
0.935	1.735	1.225	0.465	1.950	0.125	1.245	2.015
0.895	2.335	1.025	0.845	1.585	0.185	1.525	1.345
0.845	3.635	0.945	1.025	1.235	0.335	1.200	2.260
0.790	4.545	0.900	1.465	1.035	0.745	1.040	4.090
0.745	5.675	0.850	1.895	0.935	0.775	0.940	4.035
0.720	7.815	0.800	2.645	0.910	1.180	0.890	7.880
0.700	7.425	0.745	4.205	0.840	1.760	0.845	11.350
0.685	16.650	0.720	5.830	0.805	2.995	0.865	16.410
0.670	23.785	0.700	8.830	0.745	3.285	0.745	28.945
0.650	32.950	0.685	11.160	0.720	4.700	0.720	40.240
0.655	40.210	0.675	19.195	0.705	6.270	0.705	51.700
0.640	34.660	0.635	13.810	0.680	11.750	0.675	80.700
		0.605	7.770	0.655	14.770	0.650	52.025
		0.545	3.395	0.630	6.285	0.630	25.555
		0.500	2.395	0.595	3.825	0.595	16.010
				0.560	2.745	0.540	10.410
				0.485	1.595	0.495	8.095
				0.445	1.475	0.450	6.700
						0.405	6.670
						0.355	6.670

表—13 荷重—変位、静的破壊試験

ST.NO 500D-1

1回目		2回目		3回目		4回目		5回目		6回目	
荷重 (ton)	変位 (cm)										
0	0	0	2.05	0	1.75	0	14.50	0	15.45	0	17.40
1	2.40	1	4.45	1	4.25	1	17.10	1	17.95	1	19.00
2	4.70	2	6.60	2	6.45	2	19.45	2	20.00	2	21.50
3	6.75	3	8.80	3	9.45	3	22.00	3	23.05	3	25.00
4	9.25	4	11.30	4	12.45	4	25.00	4	26.00	4	27.80
5	11.70	5	13.80	5	15.35	5	37.50	5	28.80	5	30.90
6	14.70	6	16.35	6	18.55	6	30.15	6	31.60	6	33.60
7	18.00	7	19.10	7	21.35	7	33.30	7	34.30	7	36.30
6	16.60	8	22.10	7.75	23.50	8	35.60	8	37.00	8	39.25
5	14.10	8.25	23.45	8.5	27.00	9	38.10	9	39.45	9	41.35
4	11.50	~		9	30.30	9.85	40.70	10	41.75	10.13	43.10
3	9.20	自由振動		9.5	32.75	9	39.40	10.4	43.10	~	
2	6.75			10	35.90	8	37.30	10	43.00	自由振動	
1	4.55	~		10.25	38.70	7	35.30	9	41.50		
0	2.20	0	1.80	9.5	38.70	6	33.25	8	39.50		
				8.75	38.25	5	30.50	7	37.75	~	
				8	36.65	4	27.85	6	34.75	0	10.10
				7	34.05	3	25.10	5	31.85		
				6	30.85	2	21.45	4	29.10		
				5	28.15	1	18.75	3	26.50		
				4	25.55	0	16.00	2	22.80		
				3	22.35			1	19.85		
				2	19.75			0	17.55		
				1	17.35						
				0	14.65						



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