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# U.S. - JAPAN COORDINATED PROGRAM FOR MASONRY BUILDING RESEARCH

REPORT NO. 3.2 (b2)

# THE TRANSVERSE RESPONSE OF CLAY MASONRY WALLS SUBJECTED TO STRONG MOTION EARTHQUAKES

**Summary of Dynamic Test Results**
**Volume 2: Walls No. 4 and 6 (Group 1)**

by

**Marcial Blondet**
**Ronald L. Mayes**

**APRIL 1991**

**supported by:**

**NATIONAL SCIENCE FOUNDATION**
**GRANT NO. CES-8518700**

COMPUTECH ENGINEERING SERVICES, INCORPORATED

CES

This report presents the results of a research project which was part of the U.S. Coordinated Program for Masonry Building Research. The program constitutes the United States part of the United States - Japan Coordinated Masonry Research Program conducted under the auspices of the Panel on Wind and Seismic Effects of the U.S.-Japan Natural Resources Development Program (UJNR).

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U.S. - Japan Coordinated Program for Masonry Building Research

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# THE TRANSVERSE RESPONSE of CLAY MASONRY WALLS SUBJECTED TO STRONG MOTION EARTHQUAKES

## Summary of Dynamic Test Results

## Volume 2: Walls No. 4 and 6 (Group 1)

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# INTRODUCTION

This report is Volume 2 of a four volume set of reports. It includes detailed test information on Walls No. 4 and 6 (Group 1), which were part of a test program on the out of plane response of nine reinforced, clay brick masonry walls that were subjected to simulated earthquake loading. The project was developed by Computech Engineering Services (CES), as part of the US/Japan Coordinated Program for Masonry Building Research (TCCMAR). Its main objective was to evaluate the influence of the amount of vertical reinforcement, vertical ledger load, height-to-thickness (H/t) ratio, rebar splicing, and extent of grouting on the out-of-plane response of the walls.

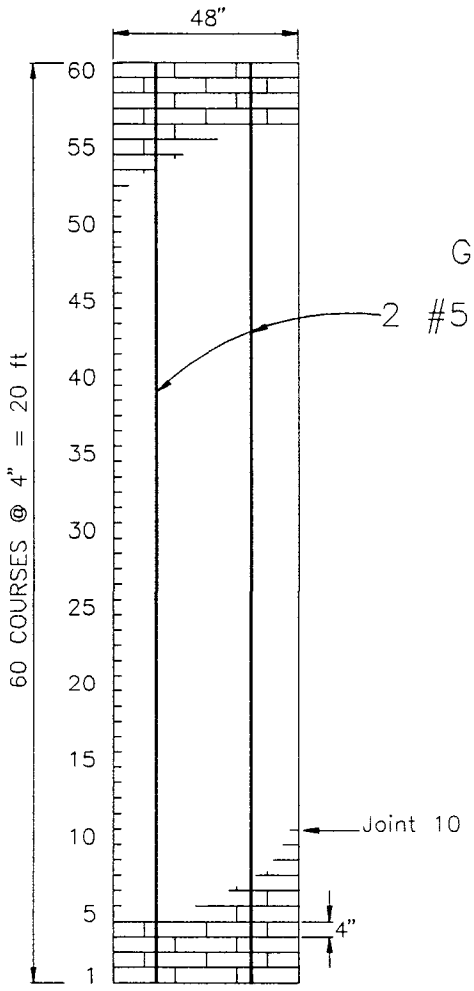
Testing was performed at the Earthquake Engineering Research Center (EERC), University of California, Berkeley. The walls were 20 and 25 feet high, with a nominal thickness of 6 inches; the vertical reinforcement consisted of 2 # 5 or 3 # 7 rebar with steel ratios of $0.16\rho_b$ and $0.50\rho_b$ respectively. Simulated earthquake motions were applied at the base and the top of each wall. The base motions corresponded to the seismic ground excitation; the top motions represented the response, at the diaphragm level, of a typical warehouse structure. Both stiff and flexible diaphragm conditions were considered. The seismic inputs were generated by scaling recorded ground motions in the time and frequency domains, to attain specified intensities of 0.1, 0.2, 0.4, and 0.8 EPA (Effective Peak Acceleration) for a rock site. The first three EPA levels corresponded, respectively, to the lower, medium and highest seismic zones of the United States. The 0.8 EPA motions represented events of twice the intensity specified by the SEAOC requirements for a soil type 1 site (S1), although the longer period part of these spectra are similar to the 0.4 EPA soil type 3 spectra.

Volume 1 of the series provides detailed descriptions of the experimental setup, input signal characteristics, data processing techniques, and summary data derived from the dynamic tests. Volume 2 contains the results of the first group of walls (Group 1): Walls 4 and 6. Volume 3 contains the results from Group 2: Walls 8, 9, 10, and 11. Volume 4 contains the results from Group 3: Walls 3, 5, and 7.

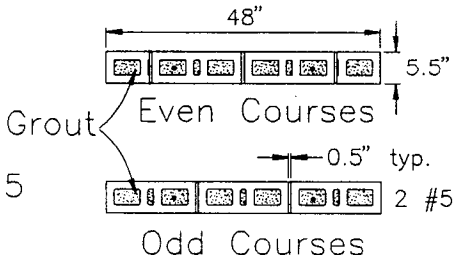
This volume is organized as follows: First, a set of figures with construction drawings and test setup and instrumentation schematics is presented. This is followed by a table with test sequence and peak displacement, acceleration measured at the bottom, center and top of each wall, as well as measured peak rebar strain. For each run, a summary table is given indicating: a) peak values of input and global response (i.e., displacements and accelerations at the top, center and bottom of the wall, peak deflection, peak inertia force and bending moment, and seismic coefficient); b) summary of mechanical properties, average stiffness $EI_{eqv}$, compared to code reference value $EmI_g$, and the average vibration frequency observed during the run; and c) local response, characterized by peak values of rebar strain, joint opening (near rebar), and faceshell compression strain and opening. Since these do not

generally occur in the same joint, a joint near the center is selected, and the corresponding quantities recorded.

For each run, envelopes and representative patterns of wall displacement, relative deflection, and absolute acceleration and bending moment, followed by the distribution of rebar strain, joint opening (near the rebar location), and faceshell compressive strain and opening are given. Then, for the first run of each EPA level, or for each run where significant difference in input or response occurs, the following force deformation plots are included: total inertia force versus center deflection, center moment versus center deflection, and moment versus curvature at center joint.




ELEVATION

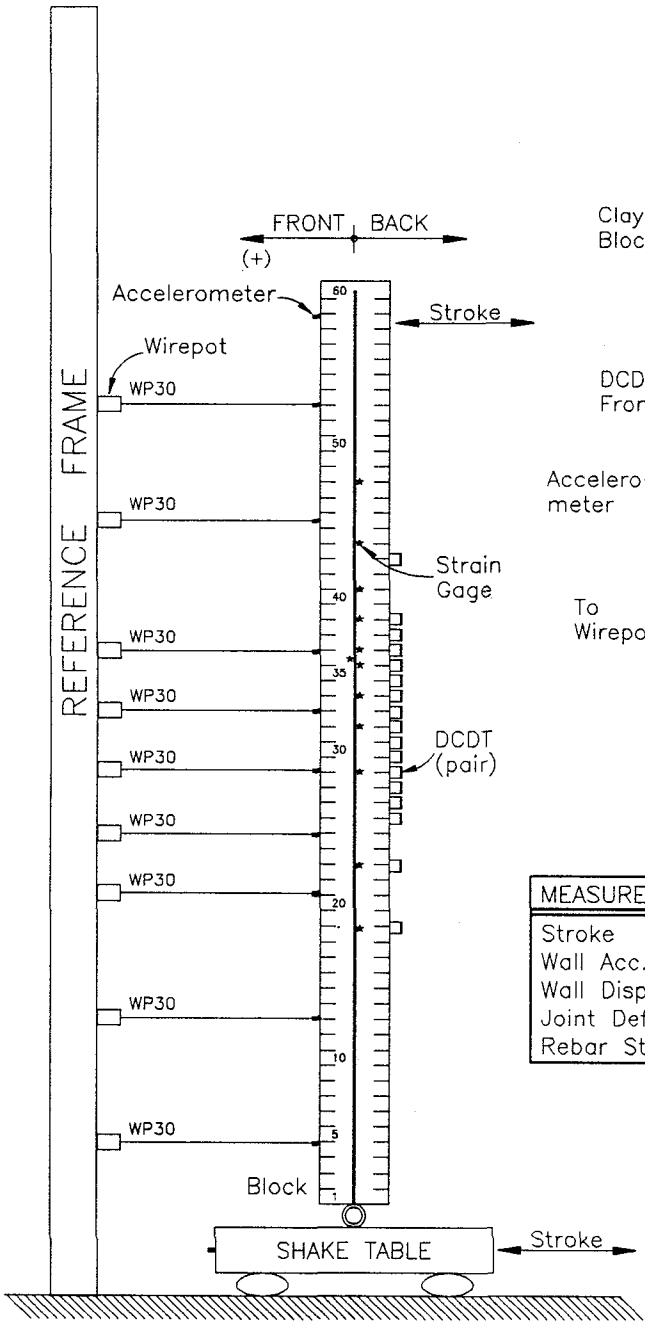


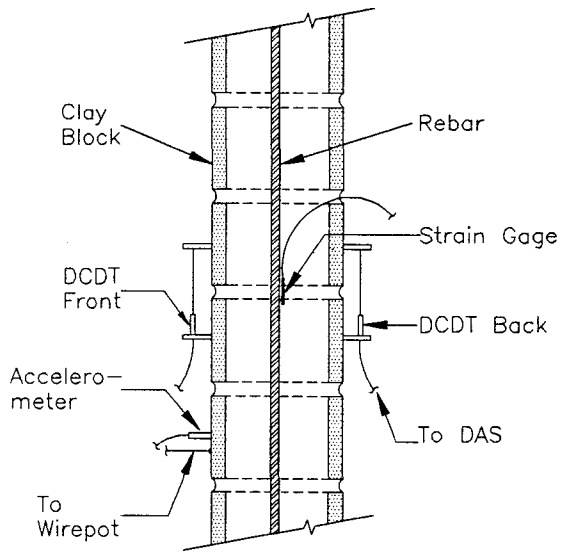

COURSE LAYOUT

Wall Height: 20 ft
Nominal Thickness: 6"
H/t = 40
Vertical Reinf.: 2 #5
No Splices
Full Grouting
Dead Load: 50 lb/ft

SPECIFICATIONS

# WALL # 4 CONSTRUCTION DRAWINGS




TYPICAL SECTION

| MEASUREMENT | # | INSTRUMENT | RANGE |
|---|---|---|---|
| Stroke | 2 | LVDT's | ± 6 in |
| Wall Acc. | 11 | Acc's | ± 4 g's |
| Wall Displ. | 9 | WP NN | ± NN in |
| Joint Def. | 17 | DCDT pairs | ± 0.5 in |
| Rebar Strain | 12 | SG's | ± 0.2 in/in |

SPECIFICATIONS

# WALL #4 INSTRUMENTATION SCHEMATICS

## Wall No. 4: Test Sequence & Peak Measurements

| Run | | EPA | Diaphragm | Displacement (in) | | | Acceleration (g) | | | Rebar Strain (in/in) |
|---|---|---|---|---|---|---|---|---|---|---|
| No. | ID | | | Bottom | Center | Top | Bottom | Center | Top | |
| 1 | MS1 | 0.10 | Flexible | 1.47 | 1.67 | 1.62 | 0.10 | 0.48 | 0.28 | 0.0010 |
| 2 | MS2 | 0.10 | Stiff | 0.30 | 0.95 | 0.31 | 0.12 | 0.65 | 0.31 | 0.0015 |
| 3 | TAFT1 | 0.10 | Flexible | 0.90 | 1.09 | 0.96 | 0.07 | 0.17 | 0.15 | 0.0006 |
| 4 | ELC1 | 0.10 | Stiff | 1.39 | 2.52 | 1.52 | 0.16 | 0.58 | 0.42 | 0.0018 |
| 5 | MS3 | 0.20 | Flexible | 2.93 | 3.39 | 3.49 | 0.26 | 0.60 | 0.37 | 0.0019 |
| 6 | MS4 | 0.20 | Stiff | 3.93 | 4.62 | 4.62 | 0.26 | 0.42 | 0.44 | 0.0014 |
| 7 | TAFT2 | 0.20 | Flexible | 2.56 | 3.74 | 2.90 | 0.18 | 0.71 | 0.32 | 0.0021 |
| 8 | ELC2 | 0.20 | Stiff | 1.63 | 3.09 | 1.69 | 0.22 | 0.64 | 0.47 | 0.0018 |
| 9 | MS5 | 0.40 | Flexible | 3.88 | 5.35 | 5.78 | 0.41 | 0.65 | 0.70 | 0.0018 |
| 10 | MS6 | 0.40 | Stiff | 3.39 | 4.74 | 5.07 | 0.45 | 0.59 | 1.04 | 0.0019 |
| 11 | ELC | 0.40 | Flexible | 3.44 | 8.64 | 5.32 | 0.37 | 1.28 | 0.54 | 0.0058 |
| 12 | BONDC | 0.40 | Flexible | 2.72 | 8.40 | 4.01 | 0.34 | 1.12 | 0.43 | 0.0094 |
| 13 | TAFTS | 0.40 | Stiff | 5.35 | 8.10 | 5.35 | 0.39 | 0.84 | 0.73 | 0.0075 |
| 14 | BONDCS | 0.40 | Stiff | 2.70 | 5.32 | 3.26 | 0.34 | 0.99 | 0.80 | 0.0073 |
| 15 | BONDCV1 | 0.40 | Flexible | 2.69 | 6.61 | 4.00 | 0.35 | 0.76 | 0.46 | 0.0083 |
| 16 | BONDCV2 | 0.50 | Flexible | 4.01 | 10.45 | 5.94 | 0.53 | 0.99 | 1.04 | 0.0110 |
| 17 | BONDCH | 0.80 | Flexible | 3.33 | 13.38 | 5.84 | 0.72 | 1.35 | 1.36 | 0.0165 |
| 18 | BONDCSH | 0.80 | Stiff | 4.85 | 14.64 | 5.30 | 1.32 | 2.09 | 2.25 | 0.0200 |

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 1: MS1 0.10 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 1.62 in | Acc Top | 0.28 g |
| Disp Cent | 1.67 in | Acc Cent | 0.48 g |
| Disp Bot | 1.47 in | Acc Bot | 0.10 g |
| Peak Defl | 0.37 in | | |
| Inertia Force | 1.73 kips | Eqv Load | 110.0 lb/ft |
| Bending Mt | 66.90 kip-in | Seismic C | 0.41 |
| | | C/Acc Bot | 4.18 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 3.98 Hz | EIeqv | 1085000 kip-in2 |
| | | EmIg/EIeqv | 2.47 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0010 | 0.0010 | in/in |
| Strain Ductility | 0.40 | 0.40 | in |
| Avg Joint Opening | 0.0056 | 0.0056 | in |
| Faceshell Comp. Strain | 0.0003 | 0.0003 | in/in |
| Faceshell Opening | 0.0123 | 0.0123 | in |
| Curvature | 0.6100 | 0.6100 | (1/in)*10-3 |
| EI joint | | 110000 | kip-in2 |

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TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 2: MS2 0.10 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 0.31 in | Acc Top | 0.31 g |
| Disp Cent | 0.95 in | Acc Cent | 0.65 g |
| Disp Bot | 0.30 in | Acc Bot | 0.12 g |
| Peak Defl | 0.89 in | | |
| Inertia Force | 2.01 kips | Eqv Load | 140.0 lb/ft |
| Bending Mt | 81.09 kip-in | Seismic C | 0.49 |
| | | C/Acc Bot | 4.12 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 2.61 Hz | EIeqv | 547000 kip-in2 |
| | | EmIg/EIeqv | 4.90 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0015 | 0.0015 | in/in |
| Strain Ductility | 0.60 | 0.60 | in |
| Avg Joint Opening | 0.0091 | 0.0091 | in |
| Faceshell Comp. Strain | 0.0005 | 0.0004 | in/in |
| Faceshell Opening | 0.0197 | 0.0197 | in |
| Curvature | 0.9700 | 0.9700 | (1/in)*10-3 |
| EI joint | | 84000 | kip-in2 |

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 3: TAFT1 0.10 EPA

| | |
|---|---|
| Wall Weight: 5.47 kips | H/t Ratio: 40 |
| Vert. Reinf: 2 # 5 | Grouting : Full |
| Dead Load: 50 lb/ft | Splices : no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 0.96 in | Acc Top | 0.15 g |
| Disp Cent | 1.09 in | Acc Cent | 0.17 g |
| Disp Bot | 0.90 in | Acc Bot | 0.07 g |
| Peak Defl | 0.37 in | | |
| Inertia Force | 0.63 kips | Eqv Load | 40.0 lb/ft |
| Bending Mt | 22.93 kip-in | Seismic C | 0.14 |
| | | C/Acc Bot | 2.09 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 2.47 Hz | EIeqv | 372000 kip-in2 |
| | | EmIg/EIeqv | 7.21 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0006 | 0.0004 | in/in |
| Strain Ductility | 0.24 | 0.16 | in |
| Avg Joint Opening | 0.0032 | 0.0027 | in |
| Faceshell Comp. Strain | 0.0003 | 0.0001 | in/in |
| Faceshell Opening | 0.0069 | 0.0060 | in |
| Curvature | 0.3400 | 0.3000 | (1/in)*10-3 |
| EI joint | | 76000 | kip-in2 |

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 4: ELC1 0.10 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 1.52 in | Acc Top | 0.42 g |
| Disp Cent | 2.52 in | Acc Cent | 0.58 g |
| Disp Bot | 1.39 in | Acc Bot | 0.16 g |
| Peak Defl | 1.30 in | | |
| Inertia Force | 1.59 kips | Eqv Load | 110.0 lb/ft |
| Bending Mt | 67.40 kip-in | Seismic C | 0.41 |
| | | C/Acc Bot | 2.57 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 2.17 Hz | EIeqv | 311000 kip-in2 |
| | | EmIg/EIeqv | 8.62 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0018 | 0.0014 | in/in |
| Strain Ductility | 0.72 | 0.56 | in |
| Avg Joint Opening | 0.0124 | 0.0081 | in |
| Faceshell Comp. Strain | 0.0006 | 0.0004 | in/in |
| Faceshell Opening | 0.0270 | 0.0179 | in |
| Curvature | 1.3300 | 0.8900 | (1/in)*10-3 |
| EI joint | | 76000 | kip-in2 |

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 5: MS3 0.20 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 3.49 in | Acc Top | 0.37 g |
| Disp Cent | 3.39 in | Acc Cent | 0.60 g |
| Disp Bot | 2.93 in | Acc Bot | 0.26 g |
| Peak Defl | 1.42 in | | |
| Inertia Force | 1.94 kips | Eqv Load | 130.0 lb/ft |
| Bending Mt | 78.95 kip-in | Seismic C | 0.48 |
| | | C/Acc Bot | 1.85 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 2.04 Hz | EIeqv | 334000 kip-in2 |
| | | EmIg/EIeqv | 8.03 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0019 | 0.0014 | in/in |
| Strain Ductility | 0.76 | 0.56 | in |
| Avg Joint Opening | 0.0133 | 0.0082 | in |
| Faceshell Comp. Strain | 0.0006 | 0.0005 | in/in |
| Faceshell Opening | 0.0291 | 0.0179 | in |
| Curvature | 1.4400 | 0.8900 | (1/in)*10-3 |
| EI joint | | 89000 | kip-in2 |

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 6: MS4 0.20 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 4.62 in | Acc Top | 0.44 g |
| Disp Cent | 4.62 in | Acc Cent | 0.42 g |
| Disp Bot | 3.93 in | Acc Bot | 0.26 g |
| Peak Defl | 1.10 in | | |
| Inertia Force | 1.40 kips | Eqv Load | 80.0 lb/ft |
| Bending Mt | 48.21 kip-in | Seismic C | 0.29 |
| | | C/Acc Bot | 1.13 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 2.53 Hz | EIeqv | 263000 kip-in2 |
| | | EmIg/EIeqv | 10.20 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0014 | 0.0010 | in/in |
| Strain Ductility | 0.56 | 0.40 | in |
| Avg Joint Opening | 0.0100 | 0.0060 | in |
| Faceshell Comp. Strain | 0.0004 | 0.0003 | in/in |
| Faceshell Opening | 0.0217 | 0.0132 | in |
| Curvature | 1.0600 | 0.6500 | (1/in)*10-3 |
| EI joint | | 74000 | kip-in2 |

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 7: TAFT2 0.20 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 2.90 in | Acc Top | 0.32 g |
| Disp Cent | 3.74 in | Acc Cent | 0.71 g |
| Disp Bot | 2.56 in | Acc Bot | 0.18 g |
| Peak Defl | 1.94 in | | |
| Inertia Force | 2.32 kips | Eqv Load | 150.0 lb/ft |
| Bending Mt | 92.75 kip-in | Seismic C | 0.57 |
| | | C/Acc Bot | 3.14 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 1.31 Hz | EIeqv | 287000 kip-in2 |
| | | EmIg/EIeqv | 9.34 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0021 | 0.0016 | in/in |
| Strain Ductility | 0.84 | 0.64 | in |
| Avg Joint Opening | 0.0150 | 0.0098 | in |
| Faceshell Comp. Strain | 0.0008 | 0.0006 | in/in |
| Faceshell Opening | 0.0332 | 0.0213 | in |
| Curvature | 1.6500 | 1.0500 | (1/in)*10-3 |
| EI joint | | 88000 | kip-in2 |

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 8: ELC2 0.20 EPA

| | |
|---|---|
| Wall Weight: 5.47 kips | H/t Ratio: 40 |
| Vert. Reinf: 2 # 5 | Grouting : Full |
| Dead Load: 50 lb/ft | Splices : no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 1.69 in | Acc Top | 0.47 g |
| Disp Cent | 3.09 in | Acc Cent | 0.64 g |
| Disp Bot | 1.63 in | Acc Bot | 0.22 g |
| Peak Defl | 1.80 in | | |
| Inertia Force | 1.87 kips | Eqv Load | 130.0 lb/ft |
| Bending Mt | 79.24 kip-in | Seismic C | 0.48 |
| | | C/Acc Bot | 2.19 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 1.77 Hz | EIeqv | 264000 kip-in2 |
| | | EmIg/EIeqv | 10.16 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0018 | 0.0015 | in/in |
| Strain Ductility | 0.72 | 0.60 | in |
| Avg Joint Opening | 0.0133 | 0.0093 | in |
| Faceshell Comp. Strain | 0.0011 | 0.0005 | in/in |
| Faceshell Opening | 0.0291 | 0.0205 | in |
| Curvature | 1.4400 | 1.0200 | (1/in)*10-3 |
| EI joint | | 78000 | kip-in2 |

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TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 9: MS5 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 5.78 in | Acc Top | 0.70 g |
| Disp Cent | 5.35 in | Acc Cent | 0.65 g |
| Disp Bot | 3.88 in | Acc Bot | 0.41 g |
| Peak Defl | 2.24 in | | |
| Inertia Force | 2.33 kips | Eqv Load | 150.0 lb/ft |
| Bending Mt | 90.80 kip-in | Seismic C | 0.55 |
| | | C/Acc Bot | 1.35 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 2.44 Hz | EIeqv | 243000 kip-in2 |
| | | EmIg/EIeqv | 11.04 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0018 | 0.0015 | in/in |
| Strain Ductility | 0.72 | 0.60 | in |
| Avg Joint Opening | 0.0131 | 0.0095 | in |
| Faceshell Comp. Strain | 0.0014 | 0.0007 | in/in |
| Faceshell Opening | 0.0287 | 0.0205 | in |
| Curvature | 1.4600 | 1.0000 | (1/in)*10-3 |
| EI joint | | 91000 | kip-in2 |

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 10: MS6 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 5.07 in | Acc Top | 1.04 g |
| Disp Cent | 4.74 in | Acc Cent | 0.59 g |
| Disp Bot | 3.39 in | Acc Bot | 0.45 g |
| Peak Defl | 2.02 in | | |
| Inertia Force | 1.59 kips | Eqv Load | 110.0 lb/ft |
| Bending Mt | 67.18 kip-in | Seismic C | 0.41 |
| | | C/Acc Bot | 0.91 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 1.65 Hz | EIeqv | 200000 kip-in2 |
| | | EmIg/EIeqv | 13.41 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0019 | 0.0015 | in/in |
| Strain Ductility | 0.76 | 0.60 | in |
| Avg Joint Opening | 0.0137 | 0.0093 | in |
| Faceshell Comp. Strain | 0.0014 | 0.0005 | in/in |
| Faceshell Opening | 0.0295 | 0.0201 | in |
| Curvature | 1.4400 | 0.9800 | (1/in)*10-3 |
| EI joint | | 69000 | kip-in2 |

CES October 9, 1989 10:19:19 am

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 11: ELC 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 5.32 in | Acc Top | 0.54 g |
| Disp Cent | 8.64 in | Acc Cent | 1.28 g |
| Disp Bot | 3.44 in | Acc Bot | 0.37 g |
| Peak Defl | 4.49 in | | |
| Inertia Force | 2.88 kips | Eqv Load | 180.0 lb/ft |
| Bending Mt | 109.48 kip-in | Seismic C | 0.67 |
| | | C/Acc Bot | 1.80 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 1.25 Hz | EIeqv | 146000 kip-in2 |
| | | EmIg/EIeqv | 18.37 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0058 | 0.0025 | in/in |
| Strain Ductility | 2.32 | 1.00 | in |
| Avg Joint Opening | 0.0242 | 0.0144 | in |
| Faceshell Comp. Strain | 0.0019 | 0.0008 | in/in |
| Faceshell Opening | 0.0461 | 0.0314 | in |
| Curvature | 2.2600 | 1.5500 | (1/in)*10-3 |
| EI joint | | 70000 | kip-in2 |

CES October 9, 1989 10:19:27 am

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 12: BONDC 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 4.01 in | Acc Top | 0.43 g |
| Disp Cent | 8.40 in | Acc Cent | 1.12 g |
| Disp Bot | 2.72 in | Acc Bot | 0.34 g |
| Peak Defl | 7.77 in | | |
| Inertia Force | 3.48 kips | Eqv Load | 230.0 lb/ft |
| Bending Mt | 140.23 kip-in | Seismic C | 0.85 |
| | | C/Acc Bot | 2.51 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 0.90 Hz | EIeqv | 108000 kip-in2 |
| | | EmIg/EIeqv | 24.83 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0218 | 0.0057 | in/in |
| Strain Ductility | 8.72 | 2.28 | in |
| Avg Joint Opening | 0.0354 | 0.0238 | in |
| Faceshell Comp. Strain | 0.0015 | 0.0014 | in/in |
| Faceshell Opening | 0.0770 | 0.0524 | in |
| Curvature | 3.7800 | 2.6000 | (1/in)*10-3 |
| EI joint | | 54000 | kip-in2 |

CES October 9, 1989 10:19:34 am

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 13: TAFTS 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 5.35 in | Acc Top | 0.73 g |
| Disp Cent | 8.10 in | Acc Cent | 0.84 g |
| Disp Bot | 5.35 in | Acc Bot | 0.39 g |
| Peak Defl | 5.04 in | | |
| Inertia Force | 1.62 kips | Eqv Load | 130.0 lb/ft |
| Bending Mt | 75.28 kip-in | Seismic C | 0.46 |
| | | C/Acc Bot | 1.18 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 0.64 Hz | EIeqv | 90000 kip-in2 |
| | | EmIg/EIeqv | 29.80 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0075 | 0.0043 | in/in |
| Strain Ductility | 3.00 | 1.72 | in |
| Avg Joint Opening | 0.0256 | 0.0170 | in |
| Faceshell Comp. Strain | 0.0010 | 0.0009 | in/in |
| Faceshell Opening | 0.0547 | 0.0364 | in |
| Curvature | 2.6700 | 1.7600 | (1/in)*10-3 |
| EI joint | | 37000 | kip-in2 |

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 14: BONDCS 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 50 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 3.26 in | Acc Top | 0.80 g |
| Disp Cent | 5.32 in | Acc Cent | 0.99 g |
| Disp Bot | 2.70 in | Acc Bot | 0.34 g |
| Peak Defl | 4.65 in | | |
| Inertia Force | 1.46 kips | Eqv Load | 140.0 lb/ft |
| Bending Mt | 82.94 kip-in | Seismic C | 0.51 |
| | | C/Acc Bot | 1.49 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 1.75 Hz | EIeqv | 107000 kip-in2 |
| | | EmIg/EIeqv | 25.07 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0073 | 0.0040 | in/in |
| Strain Ductility | 2.92 | 1.60 | in |
| Avg Joint Opening | 0.0243 | 0.0161 | in |
| Faceshell Comp. Strain | 0.0012 | 0.0008 | in/in |
| Faceshell Opening | 0.0517 | 0.0342 | in |
| Curvature | 2.5200 | 1.6400 | (1/in)*10-3 |
| EI joint | | 43000 | kip-in2 |

CES October 9, 1989 10:19:49 am

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 15: BONDCV1 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 4.00 in | Acc Top | 0.46 g |
| Disp Cent | 6.61 in | Acc Cent | 0.76 g |
| Disp Bot | 2.69 in | Acc Bot | 0.35 g |
| Peak Defl | 6.24 in | | |
| Inertia Force | 2.17 kips | Eqv Load | 150.0 lb/ft |
| Bending Mt | 89.11 kip-in | Seismic C | 0.54 |
| | | C/Acc Bot | 1.55 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 0.62 Hz | EIeqv | 86000 kip-in2 |
| | | EmIg/EIeqv | 31.19 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0083 | 0.0049 | in/in |
| Strain Ductility | 3.32 | 1.96 | in |
| Avg Joint Opening | 0.0298 | 0.0200 | in |
| Faceshell Comp. Strain | 0.0013 | 0.0008 | in/in |
| Faceshell Opening | 0.0648 | 0.0430 | in |
| Curvature | 3.1800 | 2.1000 | (1/in)*10-3 |
| EI joint | | 42000 | kip-in2 |

CES October 9, 1989 10:19:56 am

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 16: BONDCV2 0.50 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 5.94 in | Acc Top | 1.04 g |
| Disp Cent | 10.45 in | Acc Cent | 0.99 g |
| Disp Bot | 4.01 in | Acc Bot | 0.53 g |
| Peak Defl | 9.55 in | | |
| Inertia Force | 2.59 kips | Eqv Load | 190.0 lb/ft |
| Bending Mt | 111.54 kip-in | Seismic C | 0.68 |
| | | C/Acc Bot | 1.28 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 0.70 Hz | EIeqv | 70000 kip-in2 |
| | | EmIg/EIeqv | 38.31 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0110 | 0.0076 | in/in |
| Strain Ductility | 4.40 | 3.04 | in |
| Avg Joint Opening | 0.0427 | 0.0297 | in |
| Faceshell Comp. Strain | 0.0019 | 0.0014 | in/in |
| Faceshell Opening | 0.0928 | 0.0645 | in |
| Curvature | 4.5600 | 3.1600 | (1/in)*10-3 |
| EI joint | | 35000 | kip-in2 |

CES October 9, 1989 10:20:03 am

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 17: BONDCH 0.80 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 5.84 in | Acc Top | 1.36 g |
| Disp Cent | 13.38 in | Acc Cent | 1.35 g |
| Disp Bot | 3.33 in | Acc Bot | 0.72 g |
| Peak Defl | 12.62 in | | |
| Inertia Force | 3.15 kips | Eqv Load | 230.0 lb/ft |
| Bending Mt | 139.80 kip-in | Seismic C | 0.85 |
| | | C/Acc Bot | 1.18 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 0.66 Hz | EIeqv | 66000 kip-in2 |
| | | EmIg/EIeqv | 40.64 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0165 | 0.0101 | in/in |
| Strain Ductility | 6.60 | 4.04 | in |
| Avg Joint Opening | 0.0625 | 0.0431 | in |
| Faceshell Comp. Strain | 0.0024 | 0.0015 | in/in |
| Faceshell Opening | 0.1300 | 0.0923 | in |
| Curvature | 6.4900 | 4.4700 | (1/in)*10-3 |
| EI joint | | 29000 | kip-in2 |

TCCMAR PROJECT

WALL No 4 DYNAMIC TEST Run No 18: BONDCSH 0.80 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 40 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | no |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

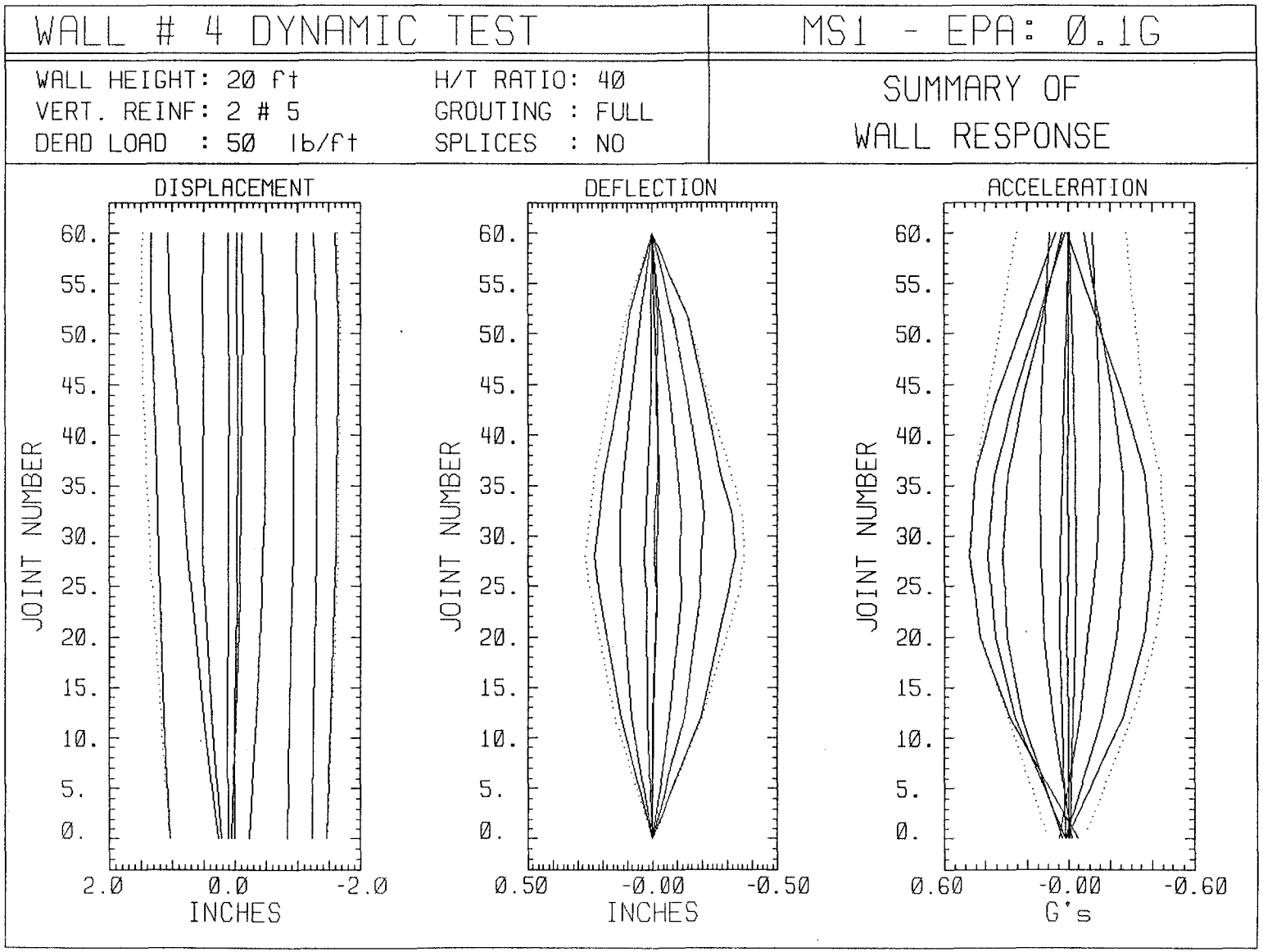
| | | | |
|---|---|---|---|
| Disp Top | 5.30 in | Acc Top | 2.25 g |
| Disp Cent | 14.64 in | Acc Cent | 2.09 g |
| Disp Bot | 4.85 in | Acc Bot | 1.32 g |
| Peak Defl | 16.00 in | | |
| Inertia Force | 3.08 kips | Eqv Load | 220.0 lb/ft |
| Bending Mt | 132.42 kip-in | Seismic C | 0.81 |
| | | C/Acc Bot | 0.61 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5370 psi | Em (Code) | 4030 ksi |
| Ig | 666 in4 | EmIg | 2682000 kip-in2 |
| Avg Freq | 0.64 Hz | EIeqv | 50000 kip-in2 |
| | | EmIg/EIeqv | 53.64 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | 0.0200 | 0.0113 | in/in |
| Strain Ductility | 8.00 | 4.52 | in |
| Avg Joint Opening | 0.0839 | 0.0510 | in |
| Faceshell Comp. Strain | 0.0029 | 0.0018 | in/in |
| Faceshell Opening | 0.1800 | 0.1100 | in |
| Curvature | 8.6800 | 5.2300 | (1/in)*10-3 |
| EI joint | | 25000 | kip-in2 |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MS1 - EPA: Ø.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
Ø.
2.Ø
Ø.Ø
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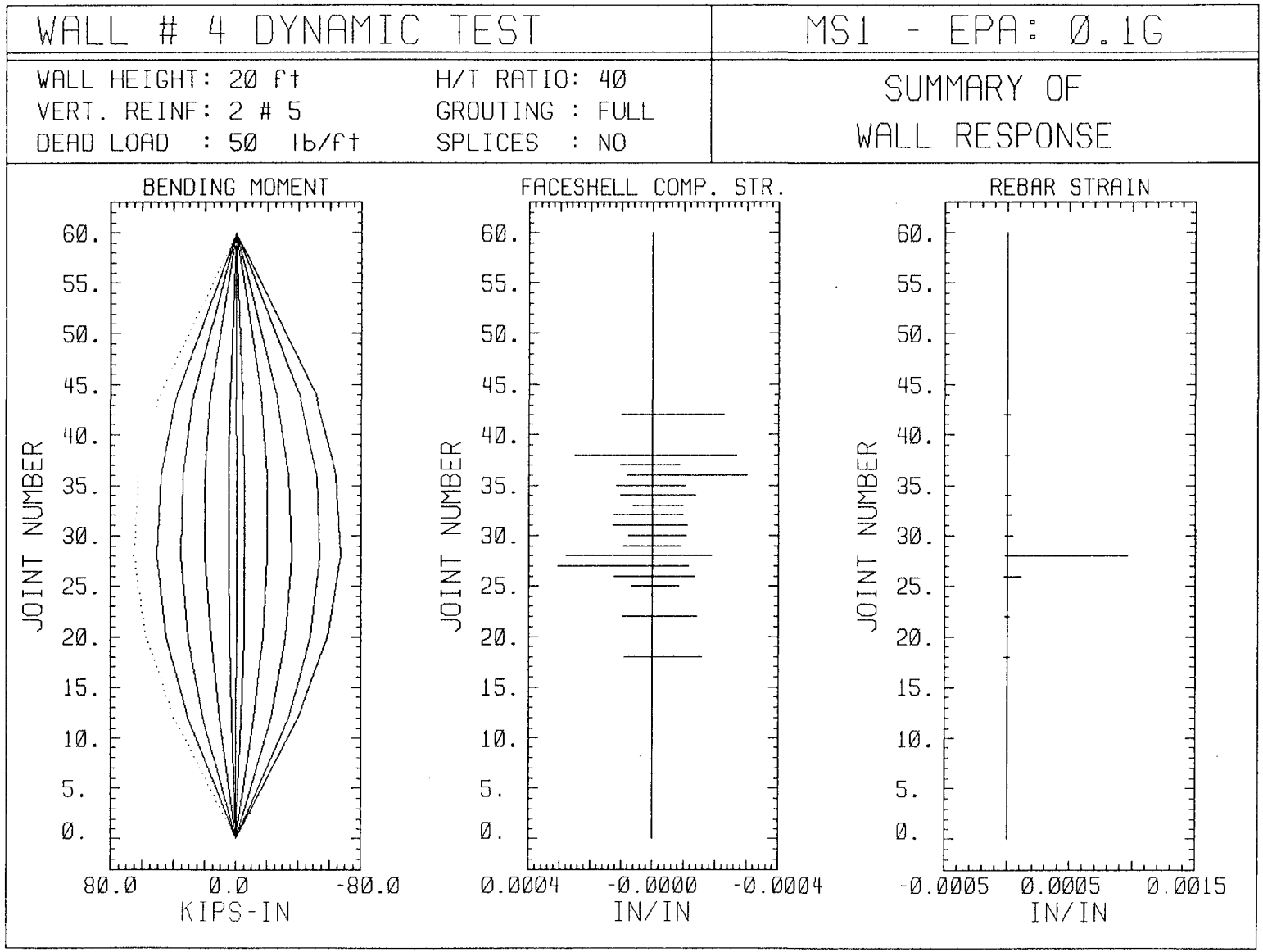
INCHES
Ø.6Ø
-Ø.ØØ
-Ø.6Ø
G's


WALL # 4 DYNAMIC TEST
MS1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
80.0
0.0
-80.0
KIPS-IN
FACESHELL COMP. STR.
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IN/IN
REBAR STRAIN
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0.0005
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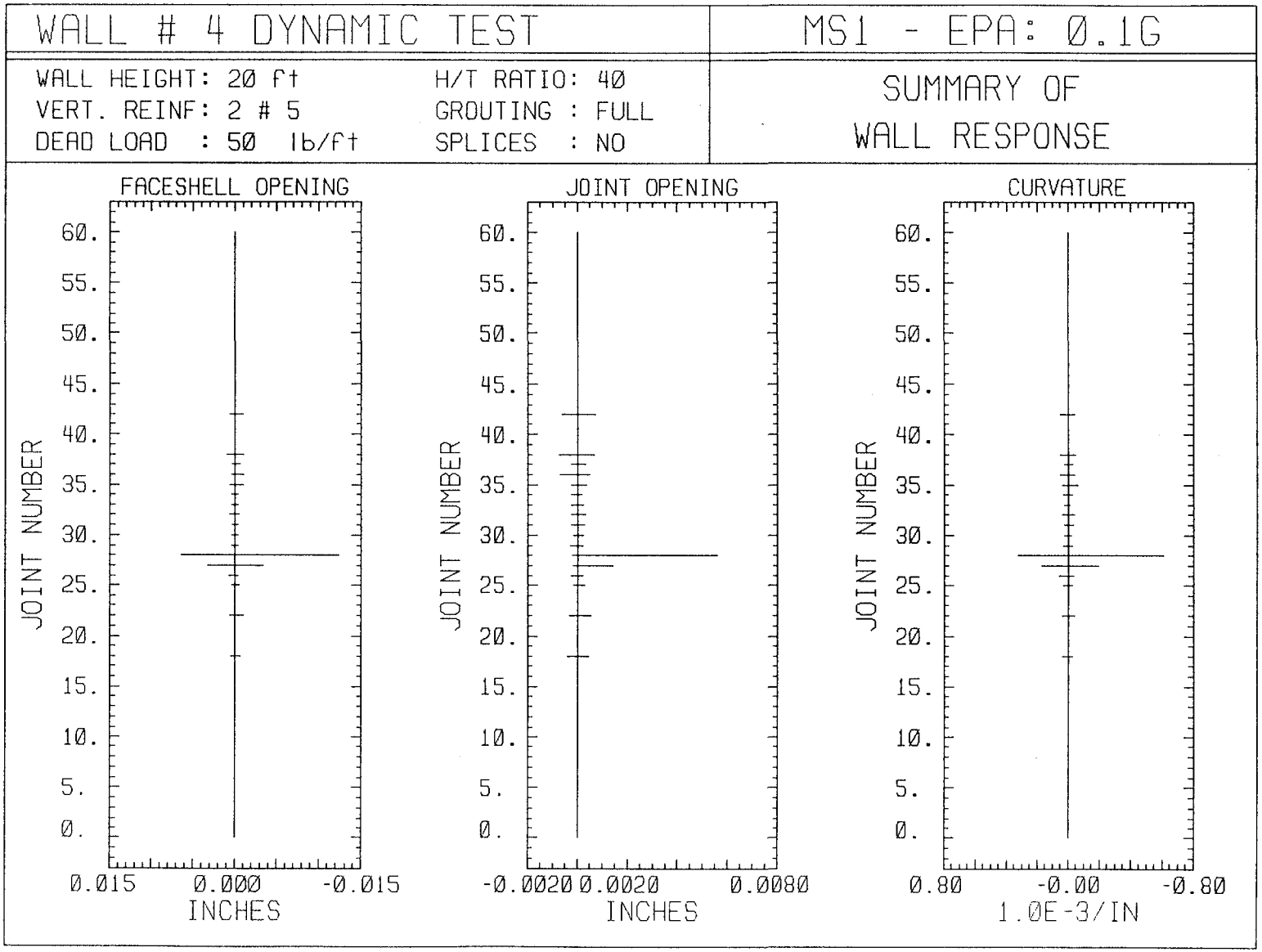
IN/IN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MSI - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.015
0.000
-0.015
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INCHES
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-0.00
-0.80
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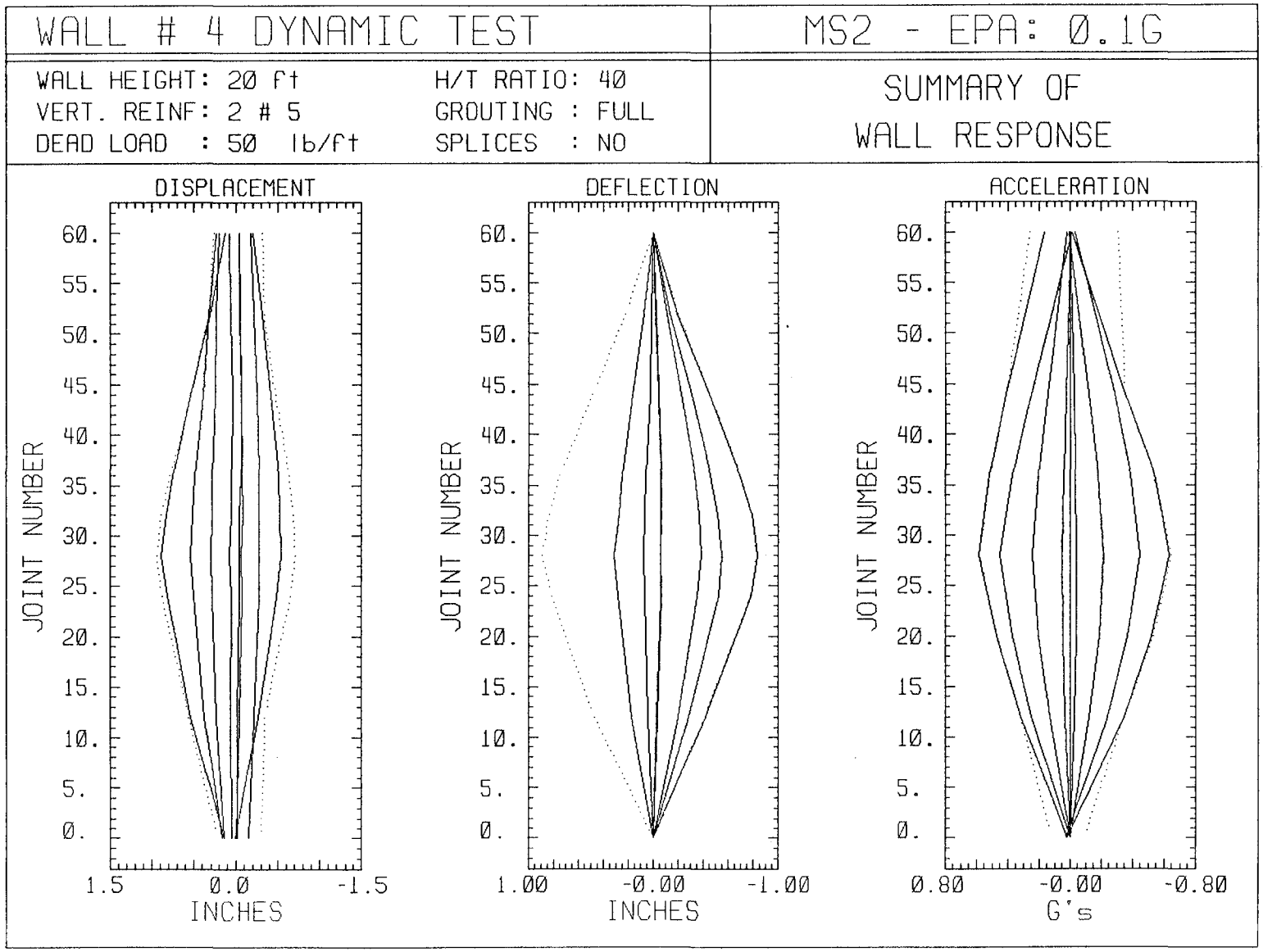
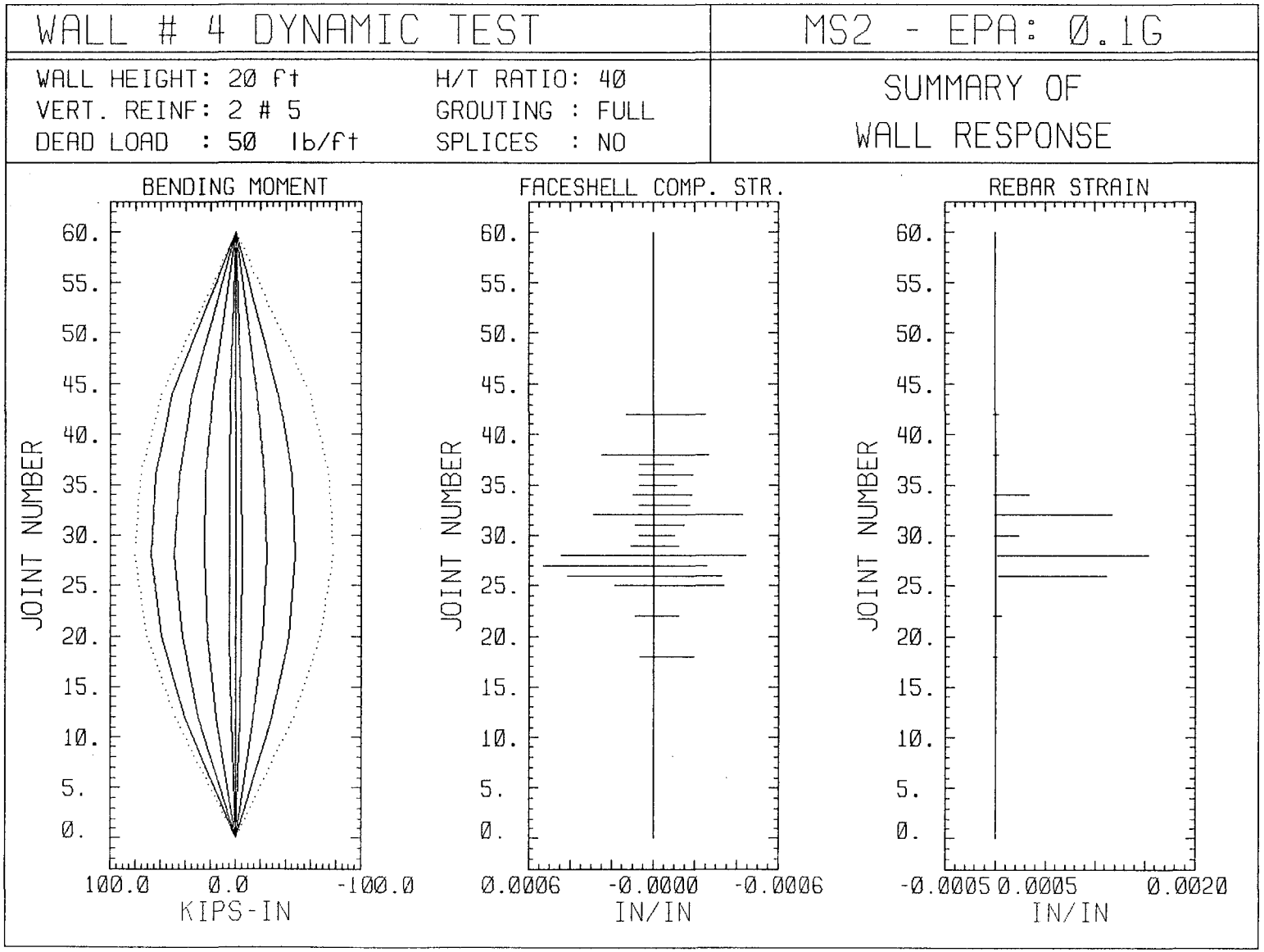

WALL # 4 DYNAMIC TEST
MS2 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
1.5
0.0
-1.5
INCHES
1.00
-0.00
-1.00
INCHES
0.80
-0.00
-0.80
G's


WALL # 4 DYNAMIC TEST
MS2 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
FACESHELL COMP. STR.
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IN/IN
REBAR STRAIN
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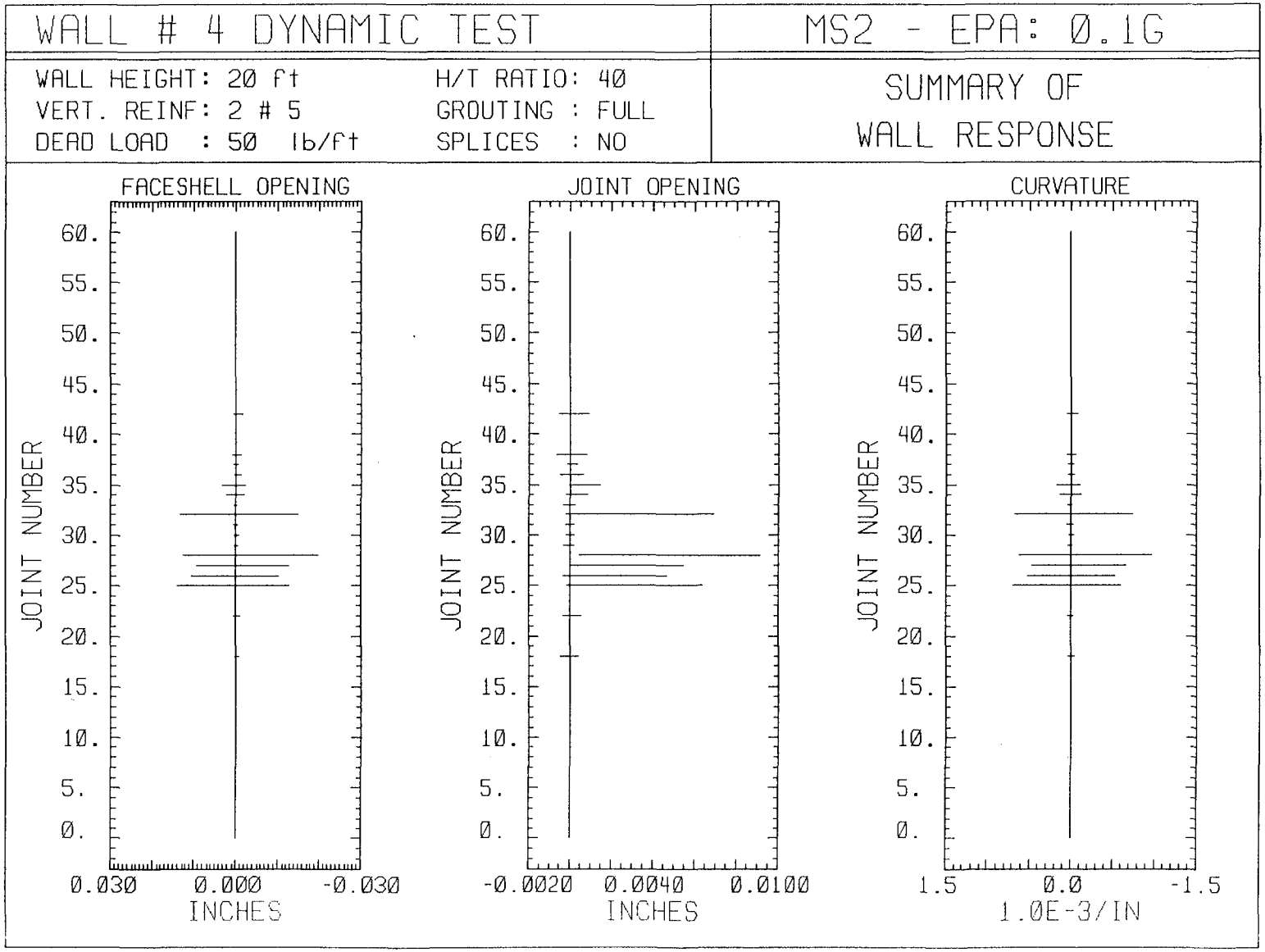
0.0005
0.0020
IN/IN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MS2 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.030
0.000
-0.030
INCHES
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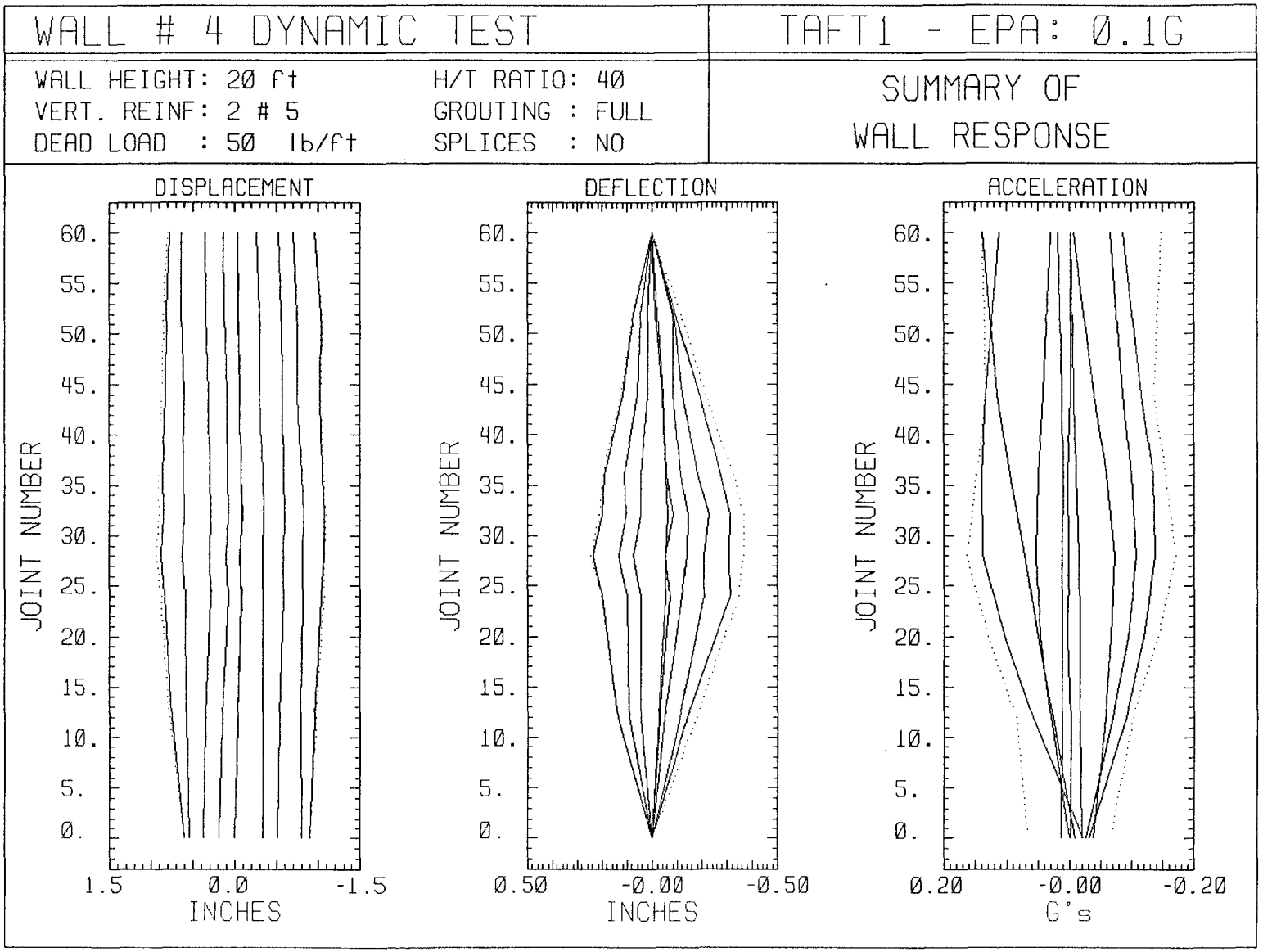
0.0040
0.0100
INCHES
1.5
0.0
-1.5
1.0E-3/IN


WALL # 4 DYNAMIC TEST
TAFT1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
1.5
0.0
-1.5
INCHES
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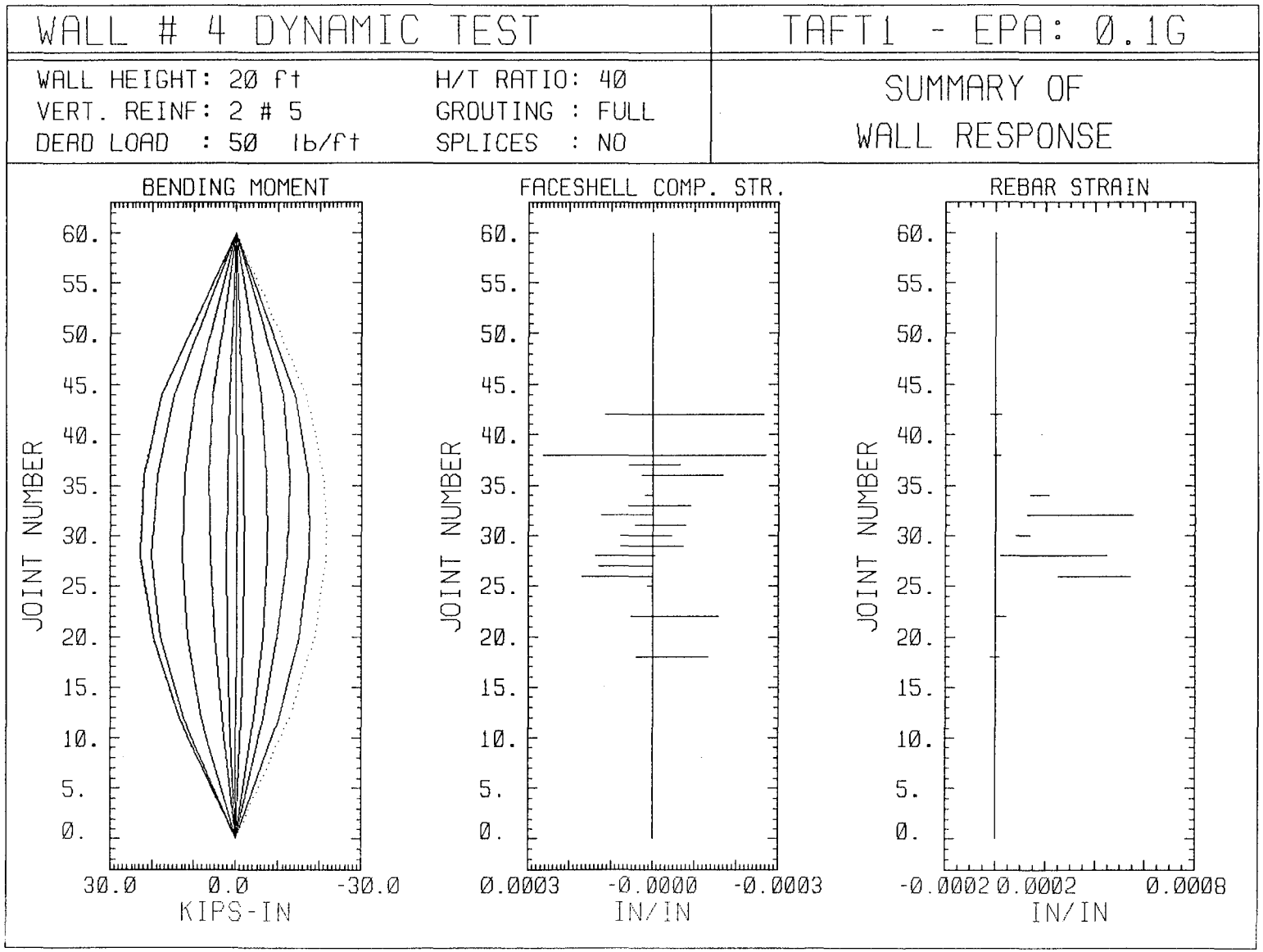
-0.50
INCHES
0.20
-0.00
-0.20
G's


WALL # 4 DYNAMIC TEST
TAFT1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
30.0
0.0
-30.0
KIPS-IN
FACESHELL COMP. STR.
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IN/IN
REBAR STRAIN
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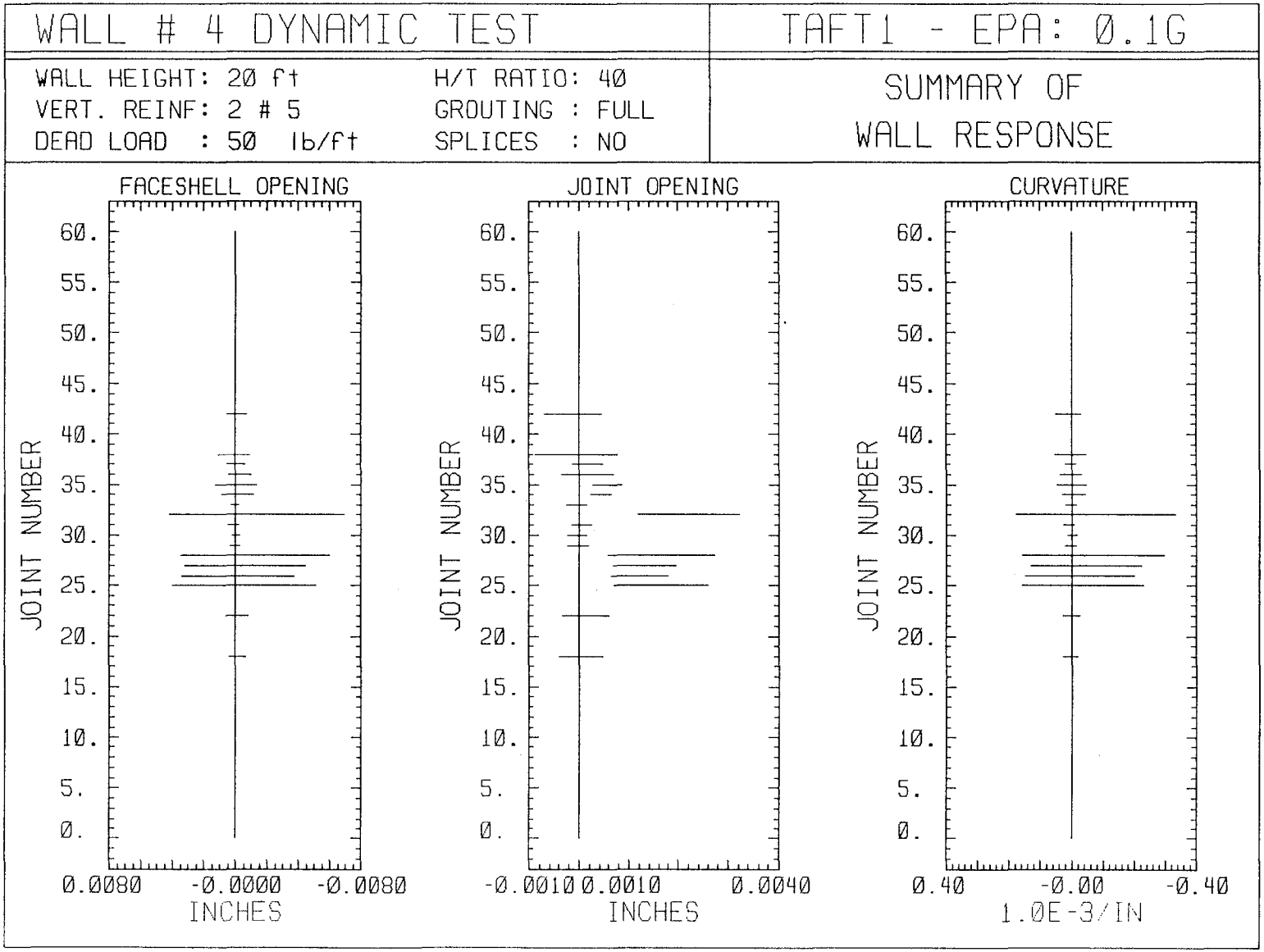
0.0002
0.0008
IN/IN


WALL # 4 DYNAMIC TEST
TAFT1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
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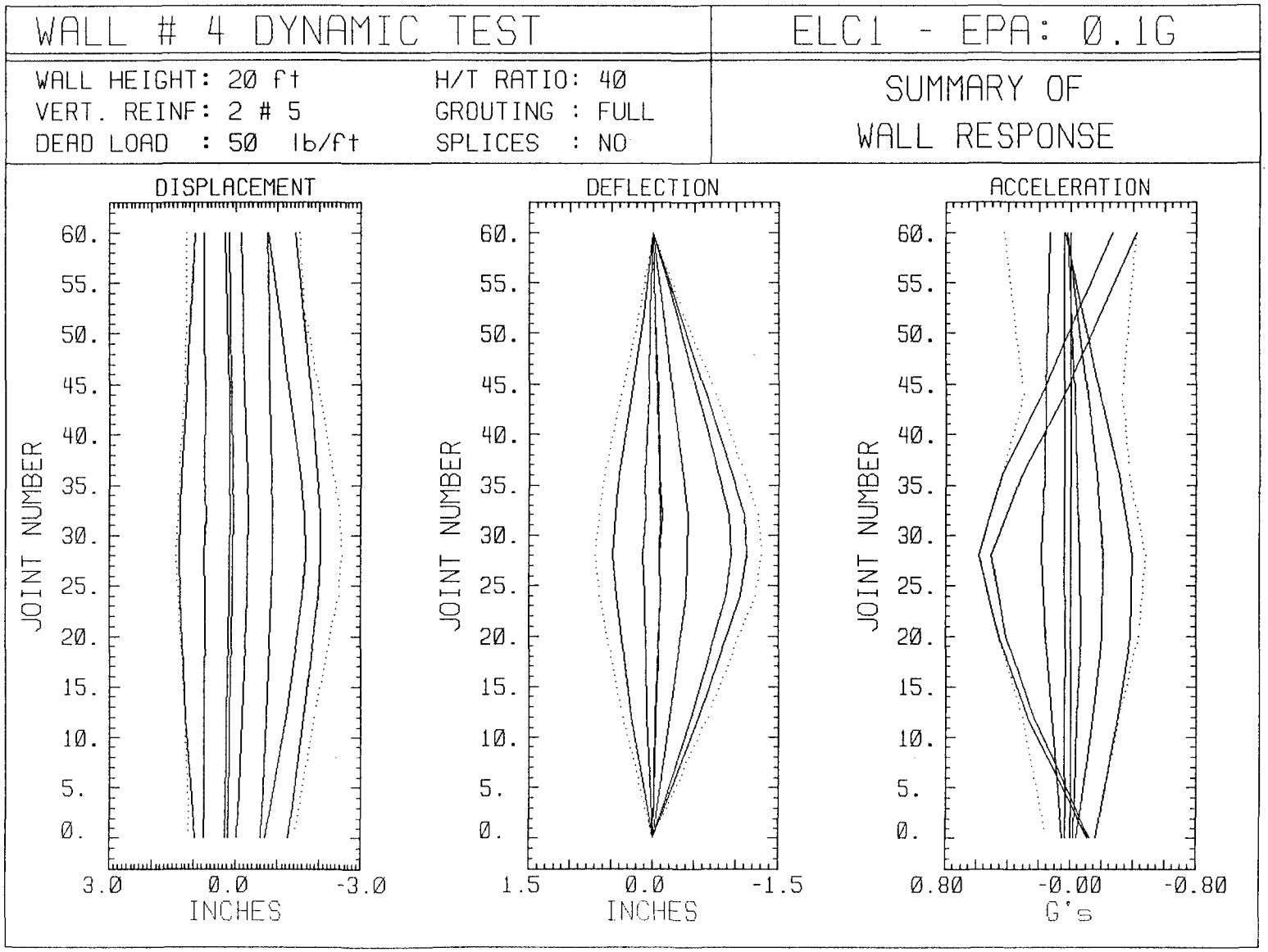
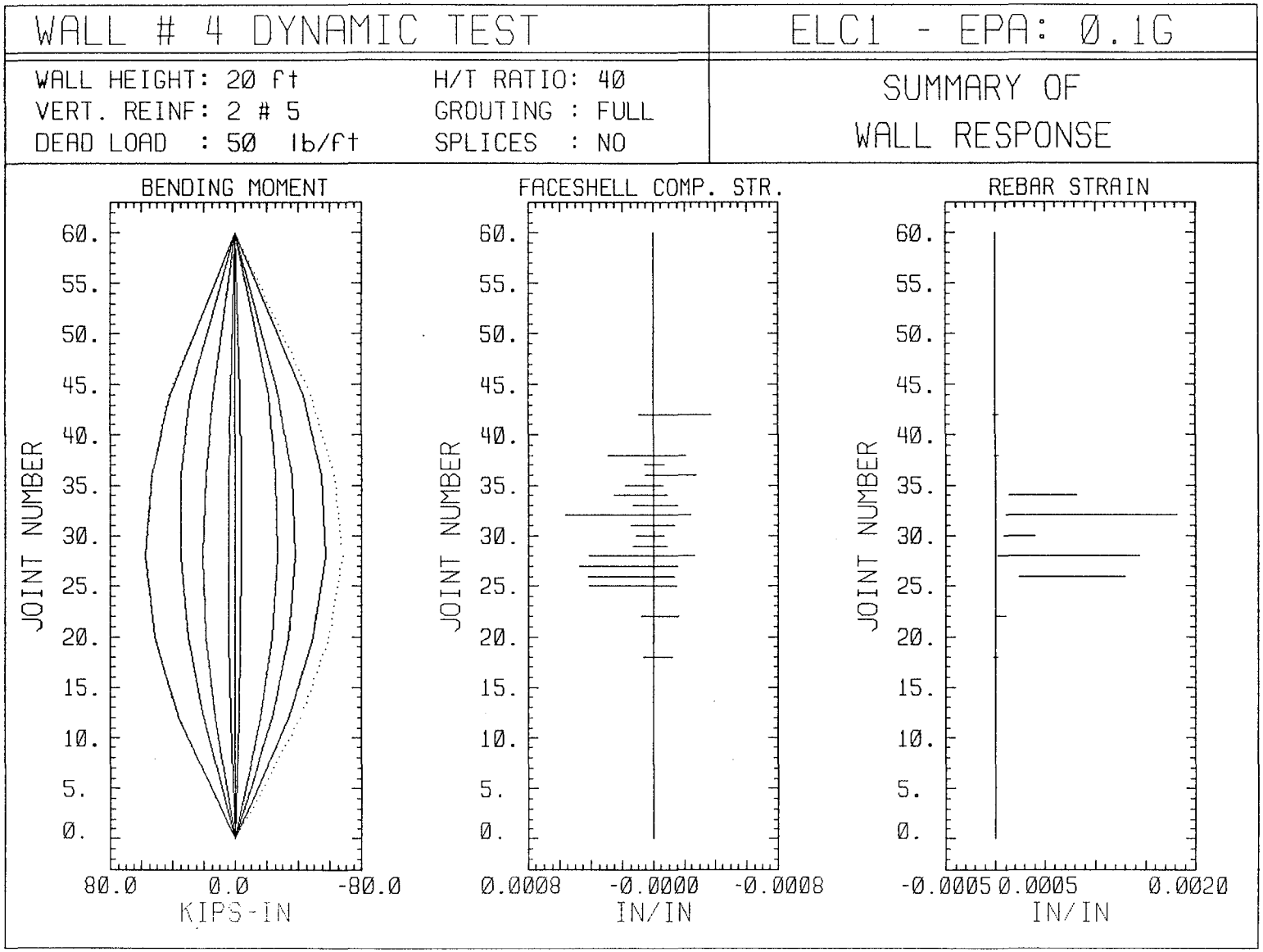
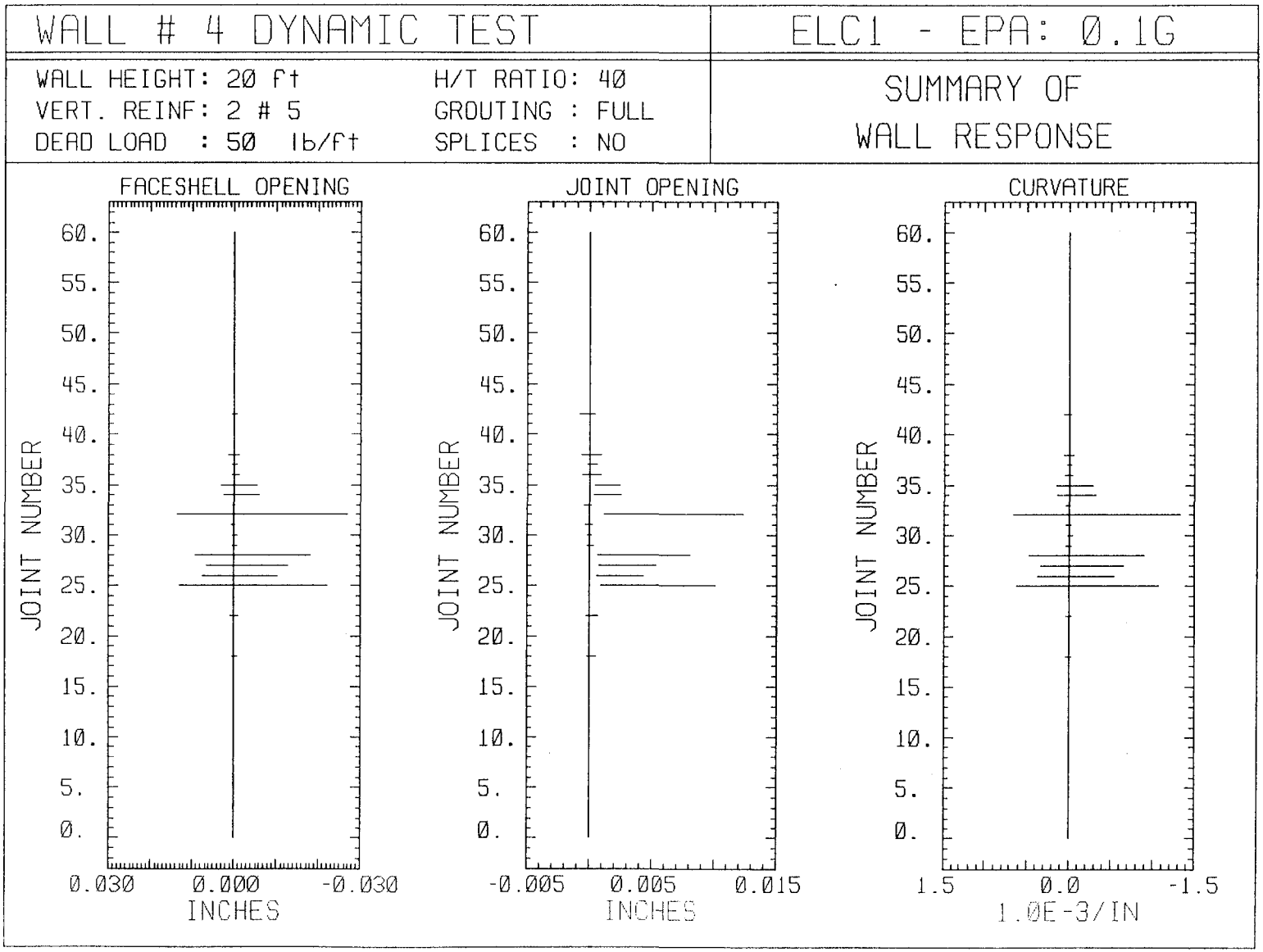
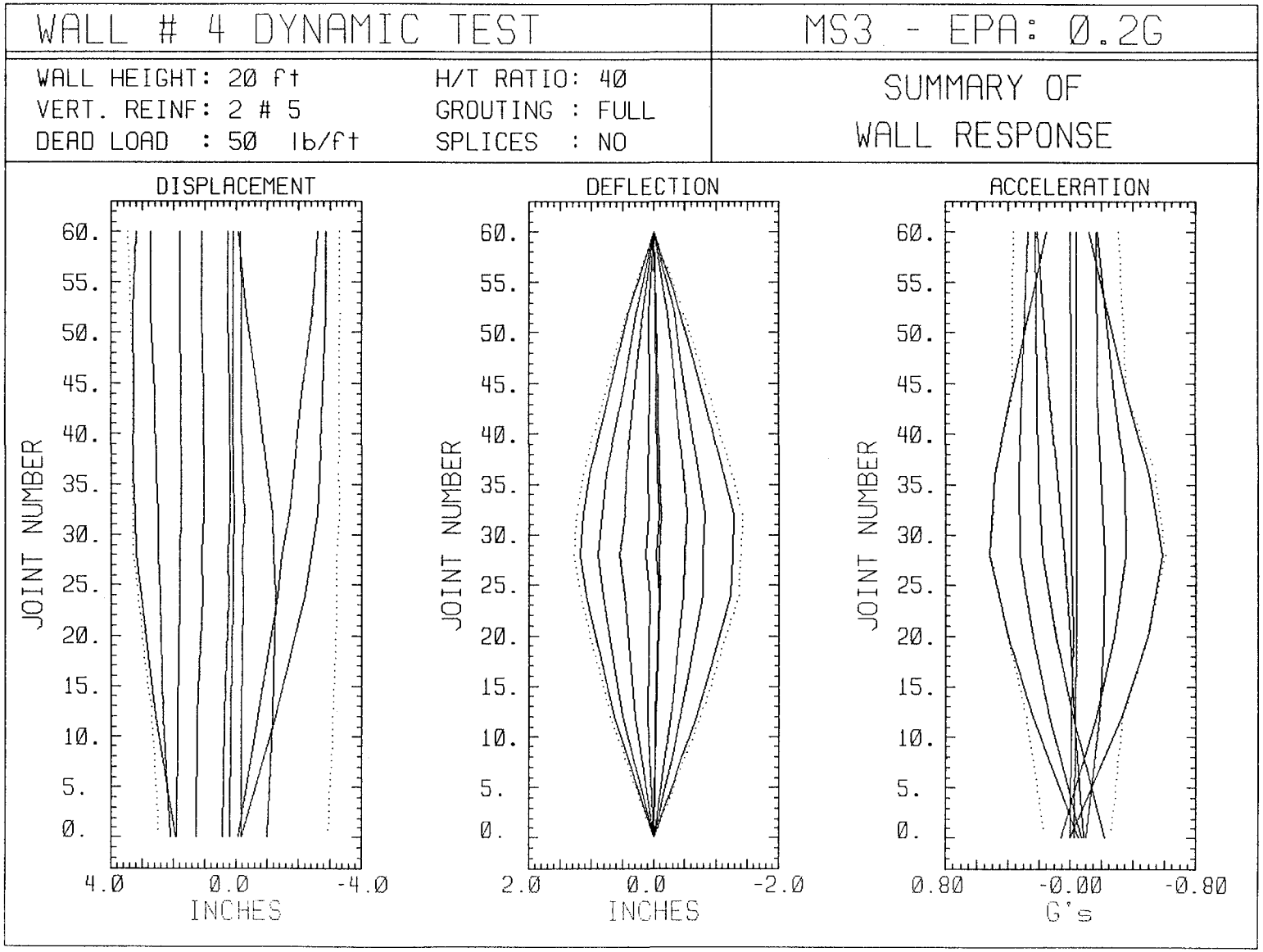
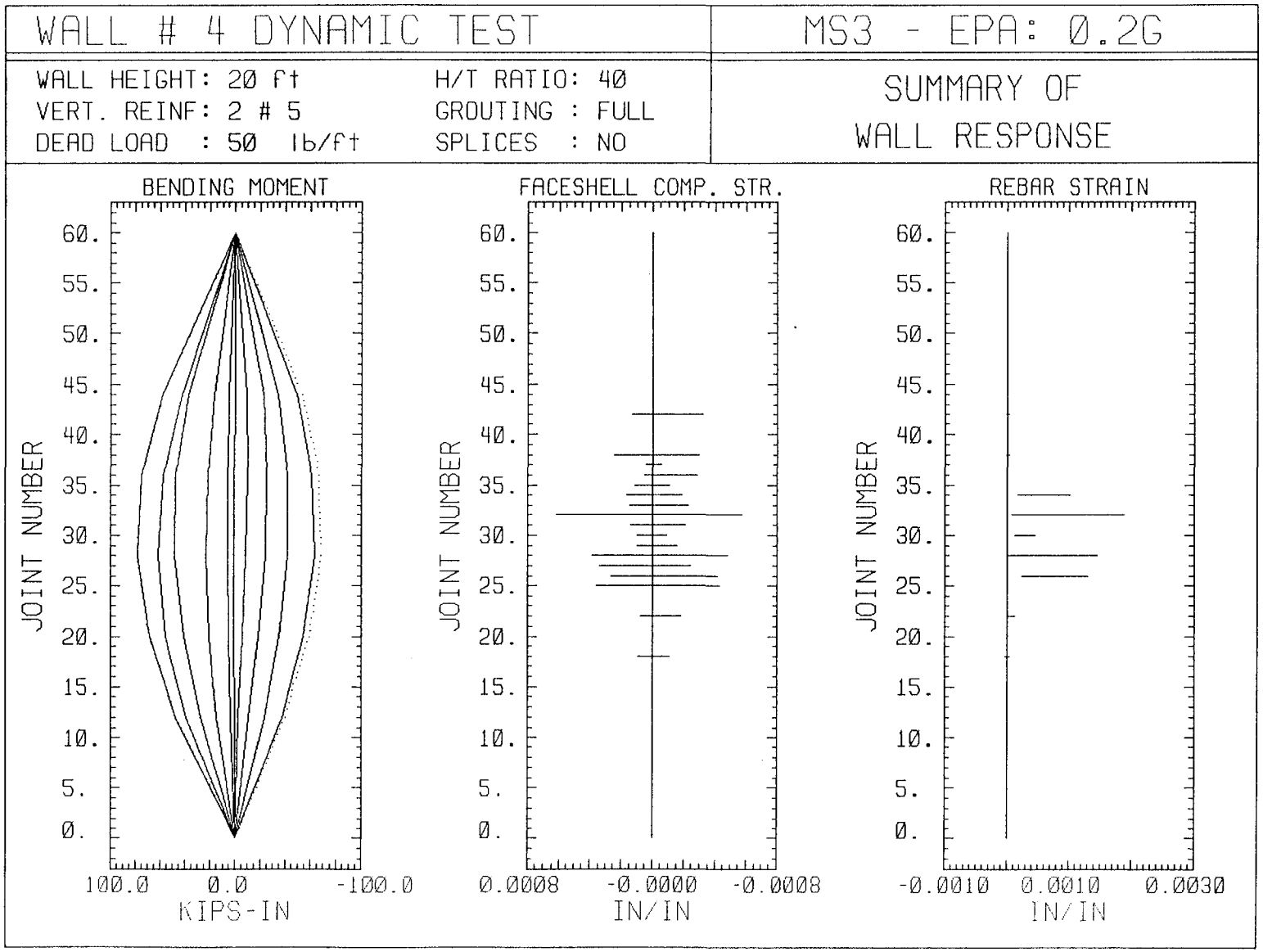
-0.0000
-0.0080
INCHES
-0.0010
0.0010
0.0040
INCHES
0.40
-0.00
-0.40
1.0E-3/IN

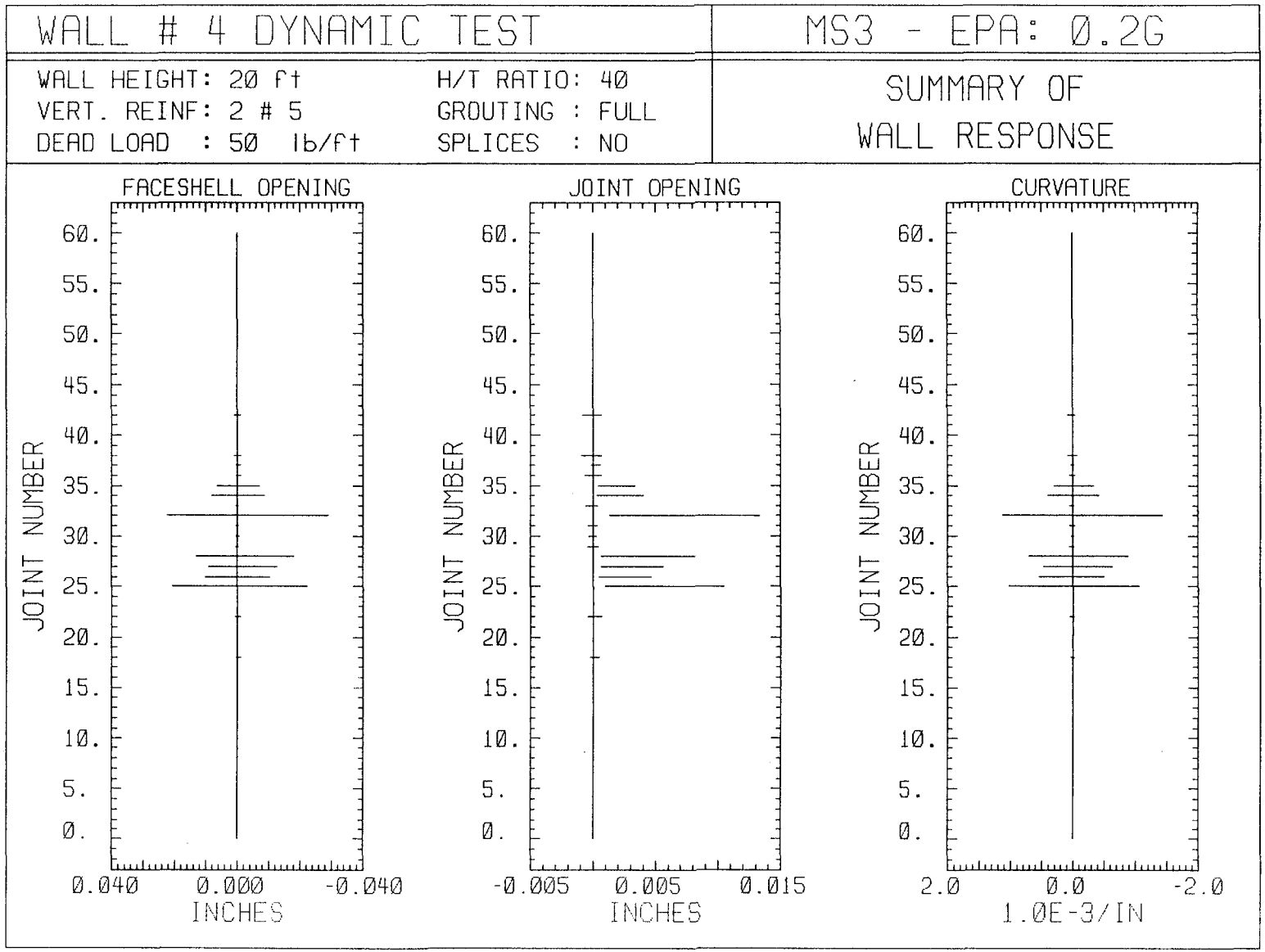

WALL # 4 DYNAMIC TEST
ELC1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
3.0
0.0
-3.0
1.5
-1.5
0.80
-0.00
-0.80
INCHES
G's

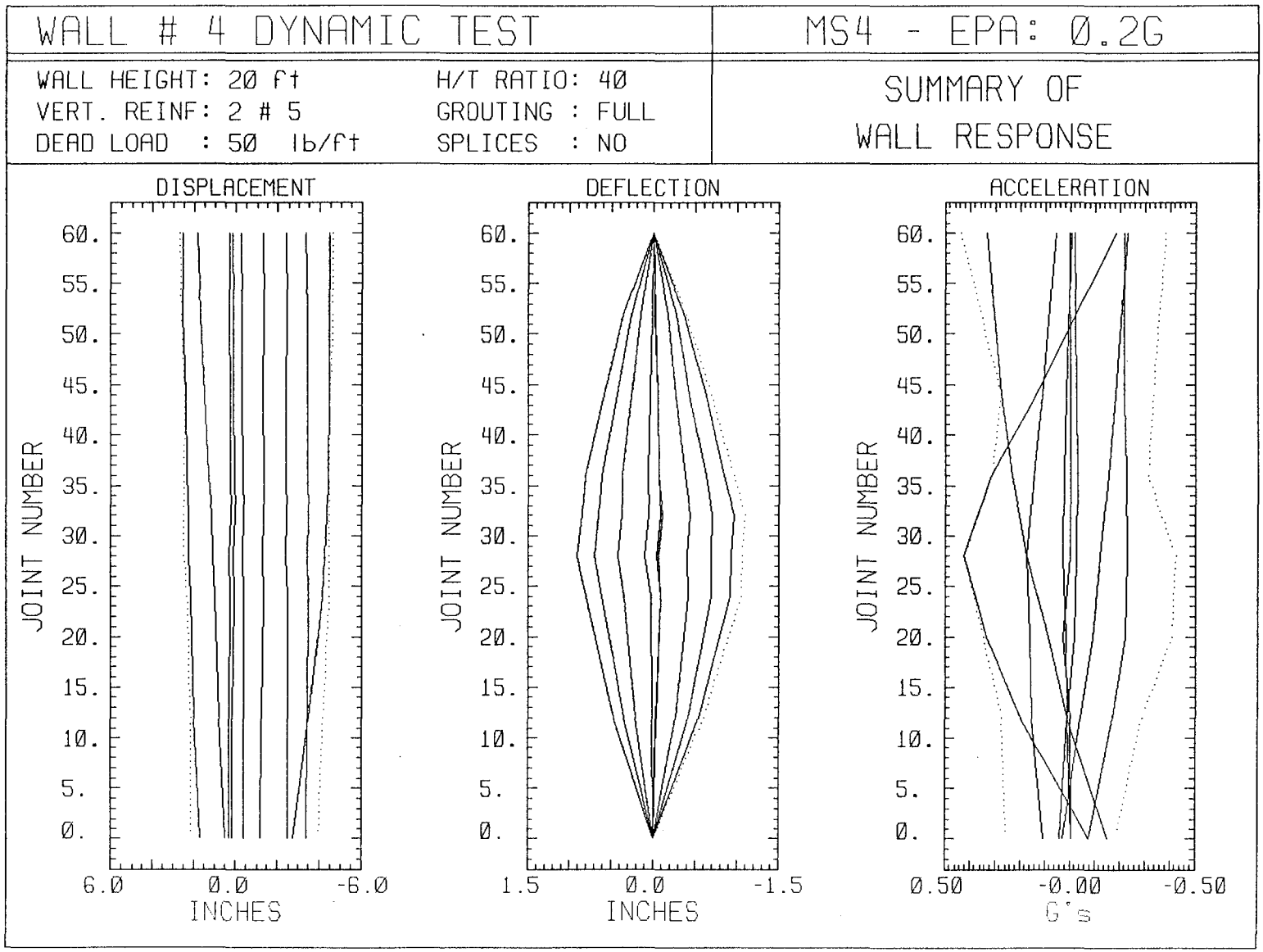

WALL # 4 DYNAMIC TEST
ELC1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
80.0
0.0
-80.0
KIPS-IN
FACESHELL COMP. STR.
0.0008
-0.0000
-0.0008
IN/IN
REBAR STRAIN
-0.0005
0.0005
0.0020
IN/IN

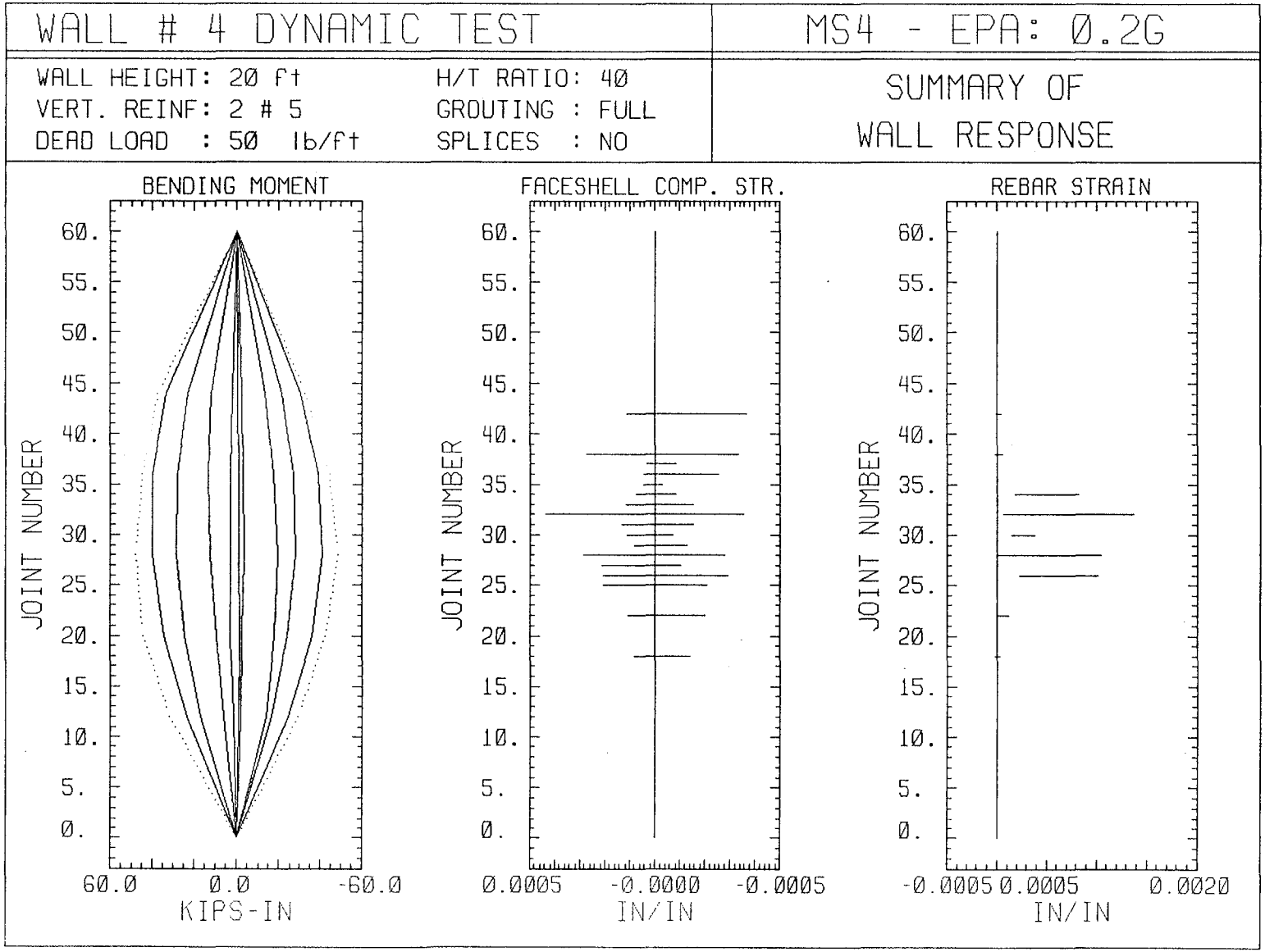

WALL # 4 DYNAMIC TEST
ELC1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.030
0.000
-0.030
INCHES
-0.005
0.005
0.015
INCHES
1.5
0.0
-1.5
1.0E-3/IN

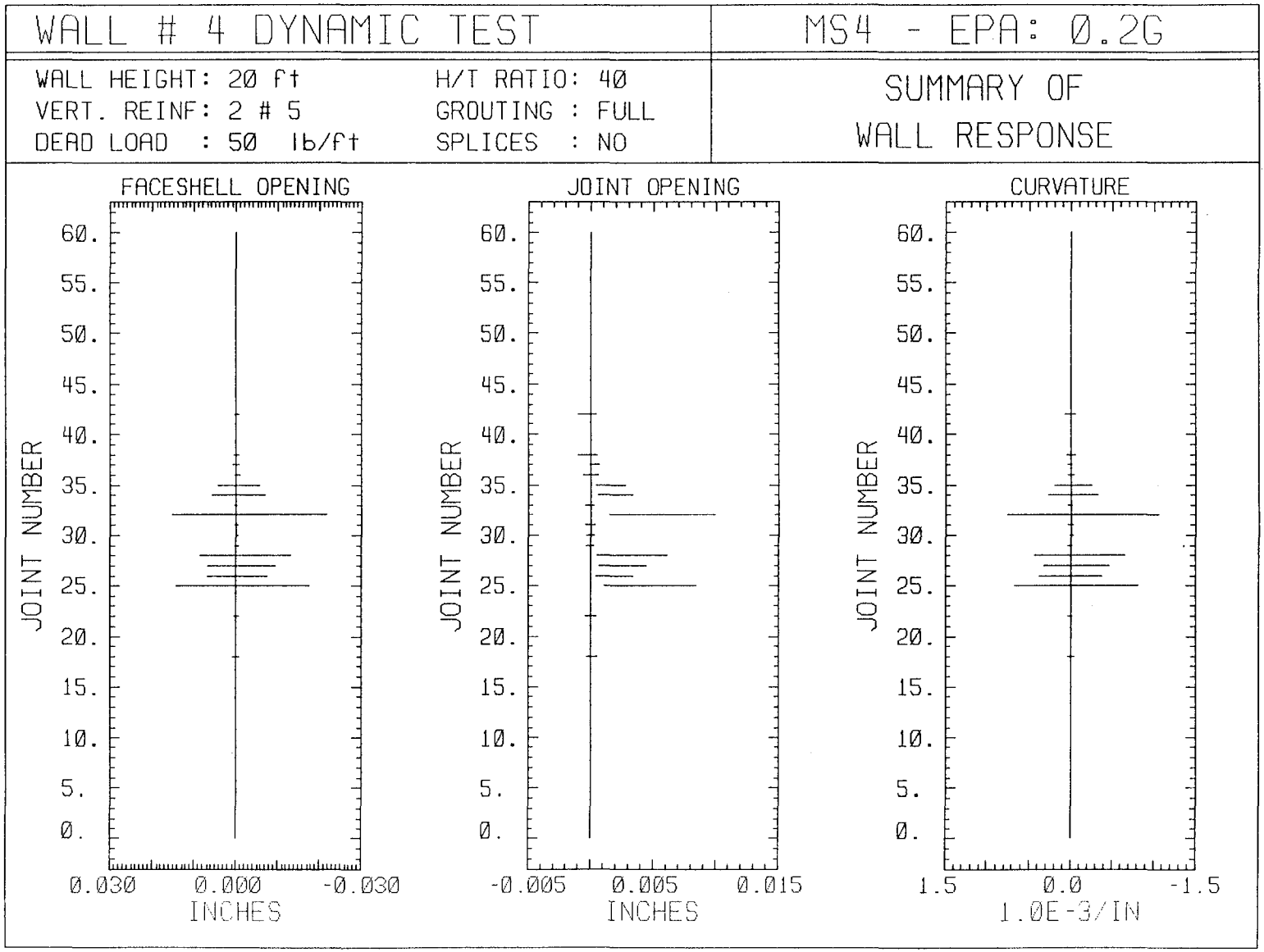

WALL # 4 DYNAMIC TEST
MS3 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
4.0
0.0
-4.0
2.0
-2.0
0.80
-0.00
-0.80
INCHES
G's

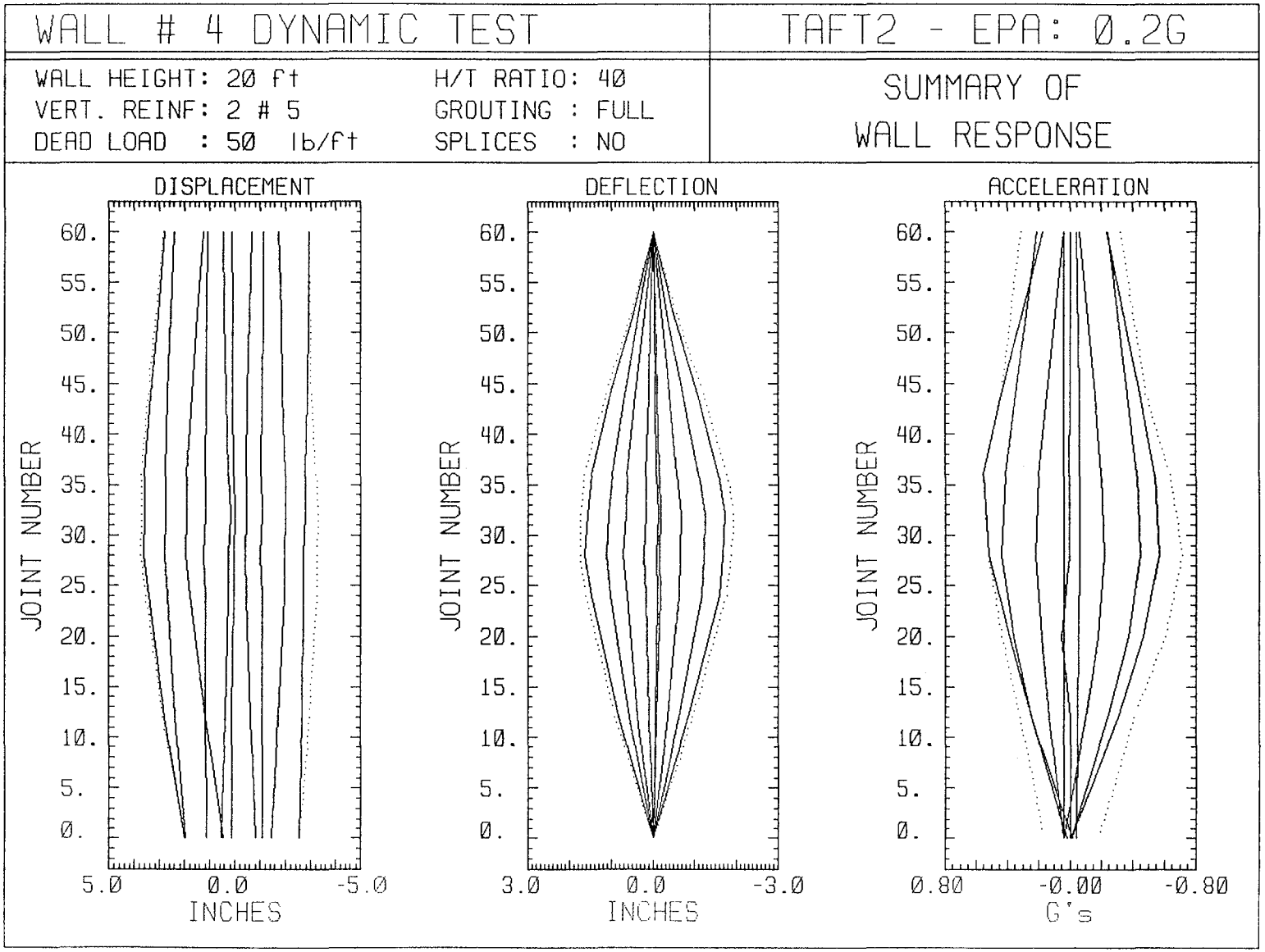

WALL # 4 DYNAMIC TEST
MS3 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
FACESHELL COMP. STR.
0.0008
-0.0000
-0.0008
IN/IN
REBAR STRAIN
-0.0010
0.0010
0.0030
IN/IN

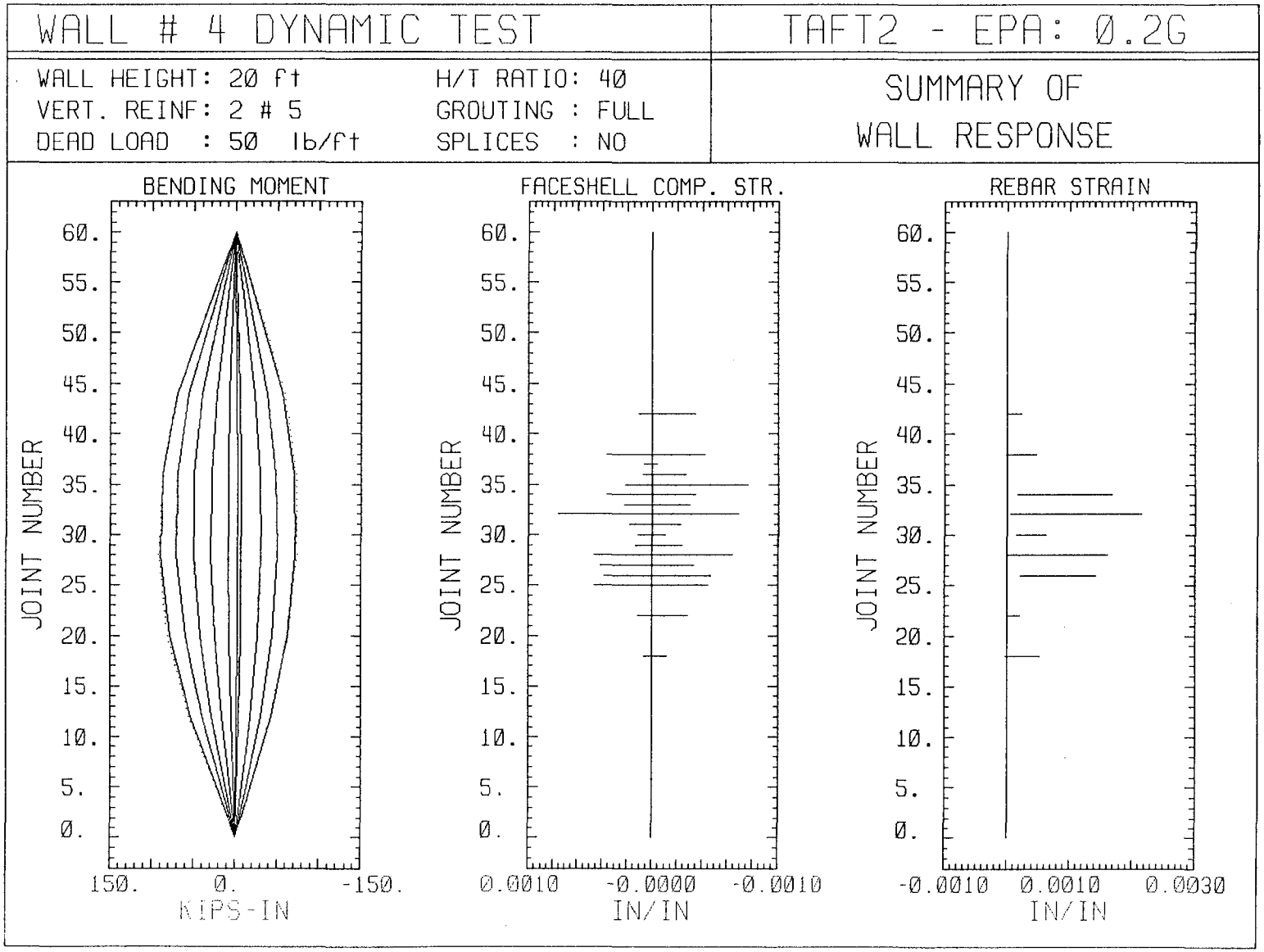

WALL # 4 DYNAMIC TEST
MS3 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.040
0.000
-0.040
INCHES
-0.005
0.005
0.015
2.0
0.0
-2.0
1.0E-3/IN

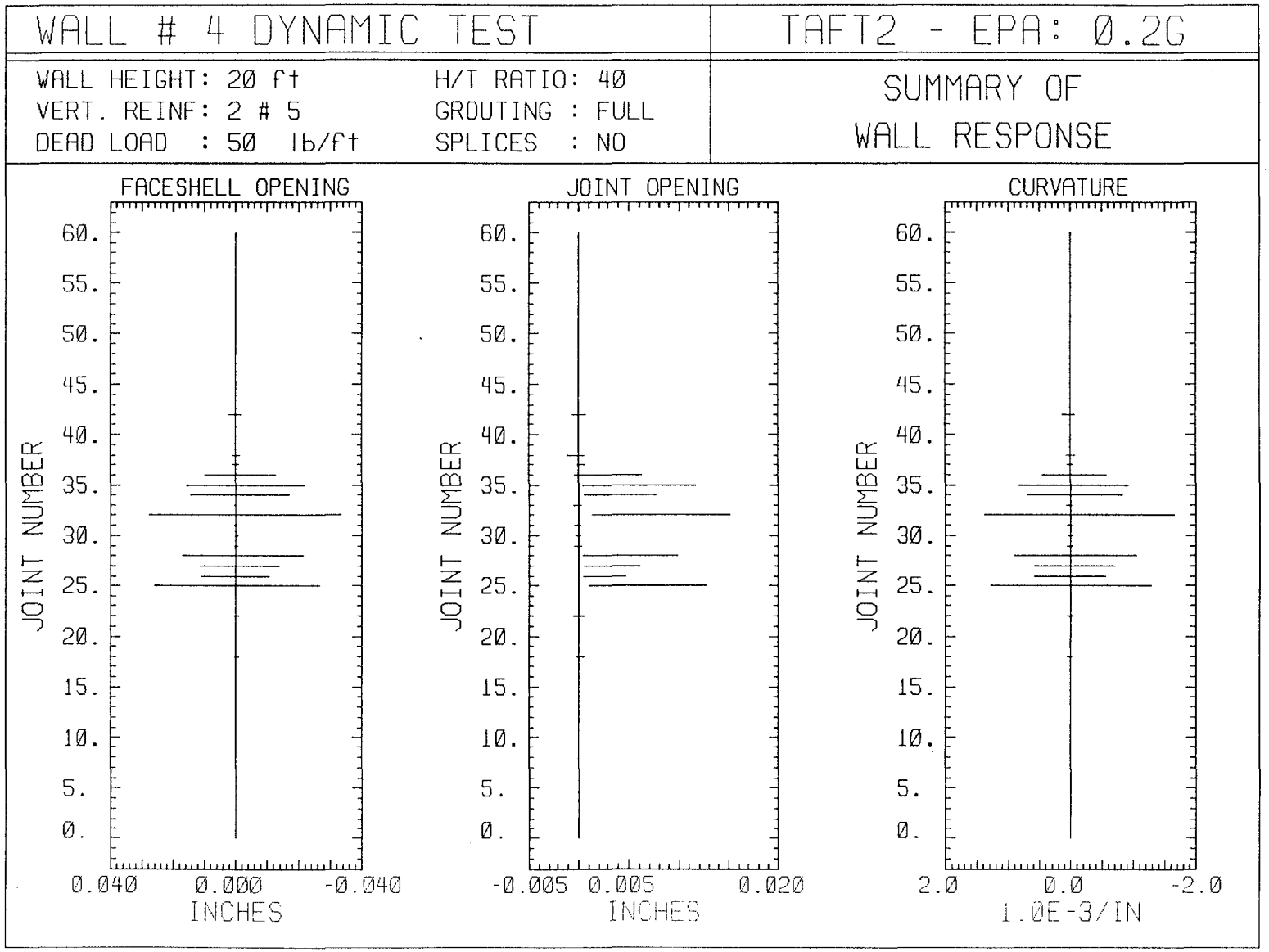

WALL # 4 DYNAMIC TEST
MS4 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
6.0
0.0
-6.0
INCHES
1.5
0.0
-1.5
INCHES
0.50
-0.00
-0.50
G's

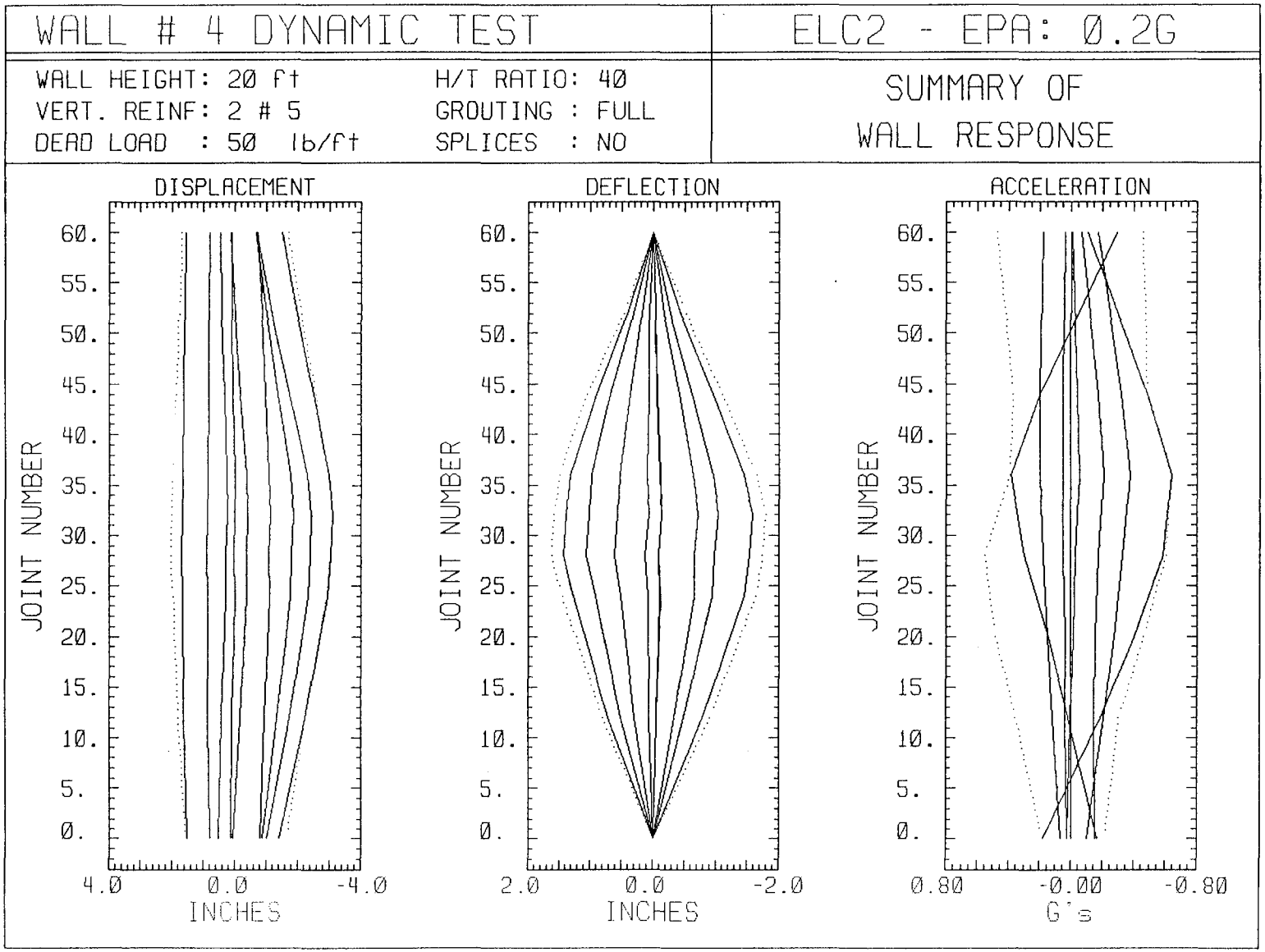

WALL # 4 DYNAMIC TEST
MS4 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
60.0
0.0
-60.0
KIPS-IN
FACESHELL COMP. STR.
0.0005
-0.0000
-0.0005
IN/IN
REBAR STRAIN
-0.0005
0.0005
0.0020
IN/IN

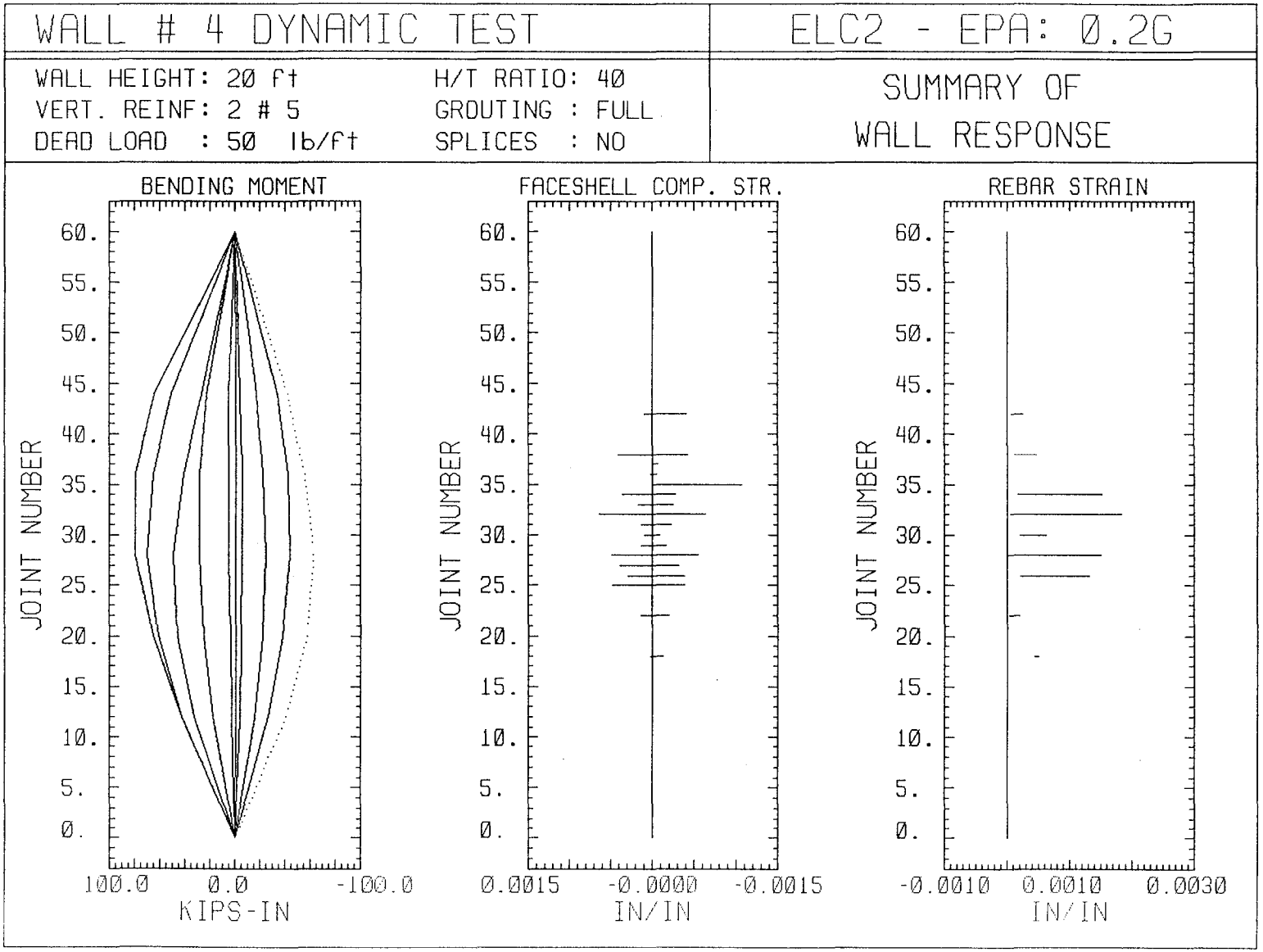

WALL # 4 DYNAMIC TEST
MS4 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.030
0.000
-0.030
-0.005
0.005
0.015
1.5
0.0
-1.5
INCHES
1.0E-3/IN

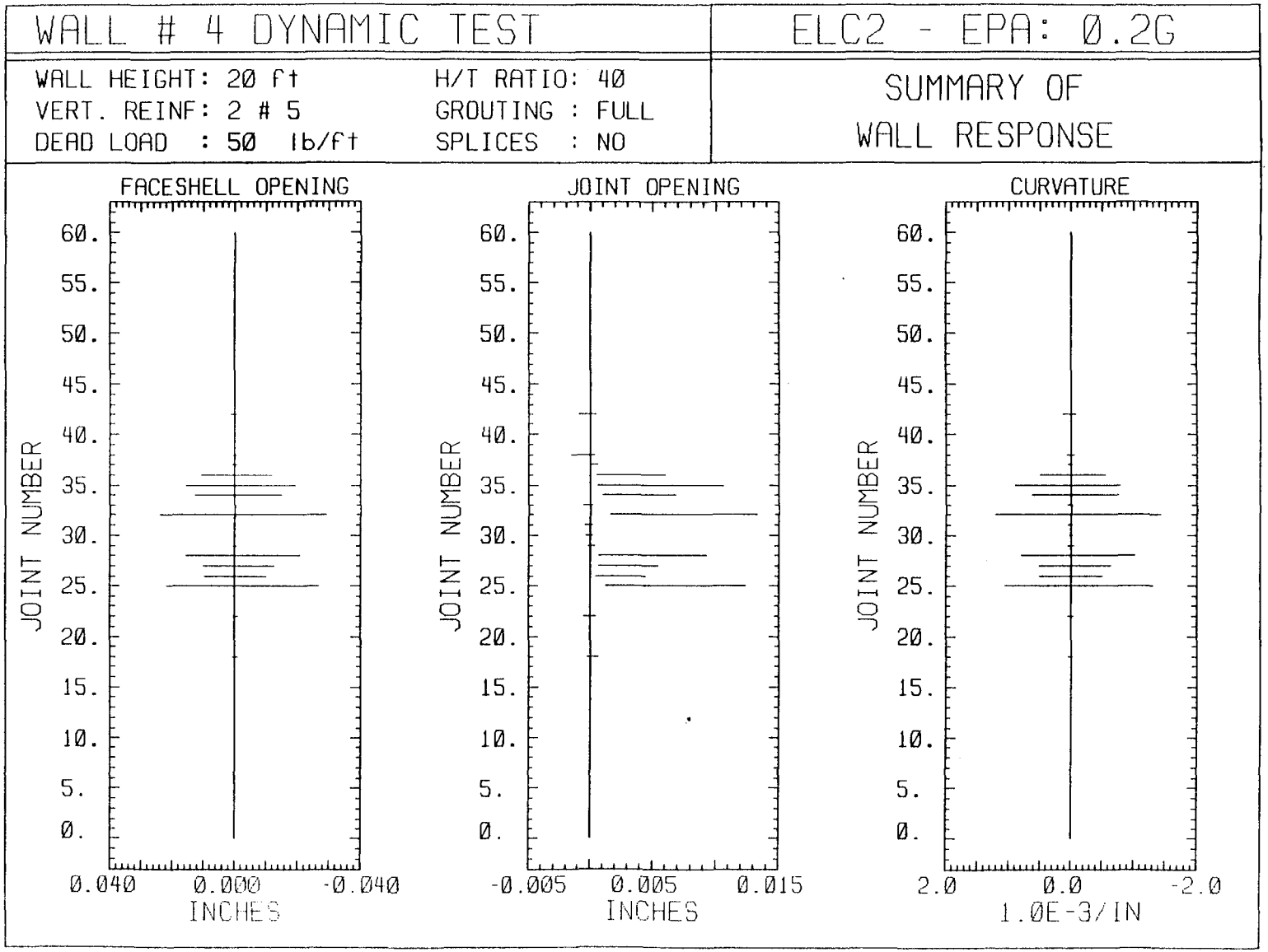

WALL # 4 DYNAMIC TEST
TAFT2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
5.0
0.0
-5.0
INCHES
3.0
0.0
-3.0
INCHES
0.80
-0.00
-0.80
G's

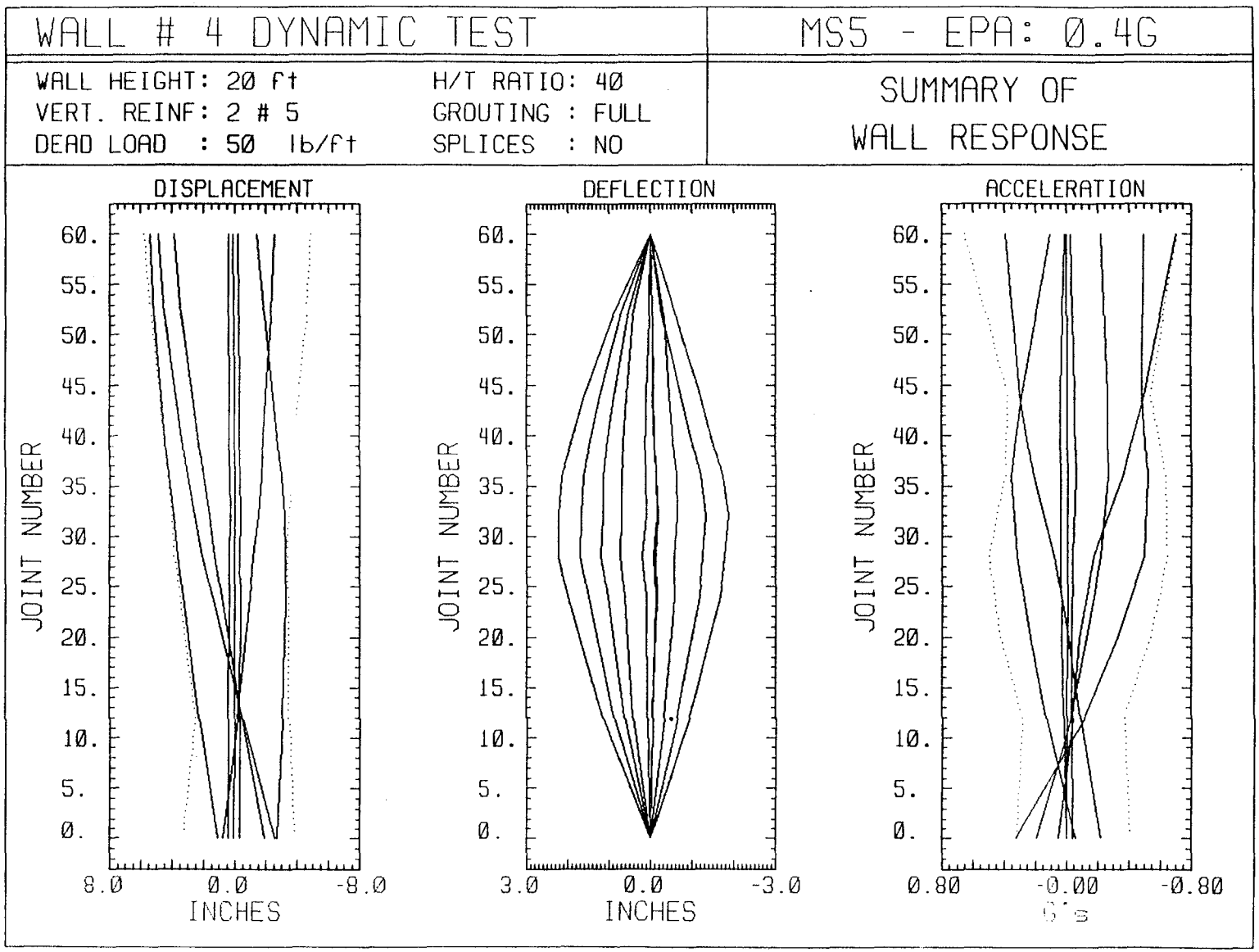

WALL # 4 DYNAMIC TEST
TAFT2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
150.
0.
-150.
KIPS-IN
FACESHELL COMP. STR.
0.0010
-0.0000
-0.0010
IN/IN
REBAR STRAIN
-0.0010
0.0010
0.0030
IN/IN

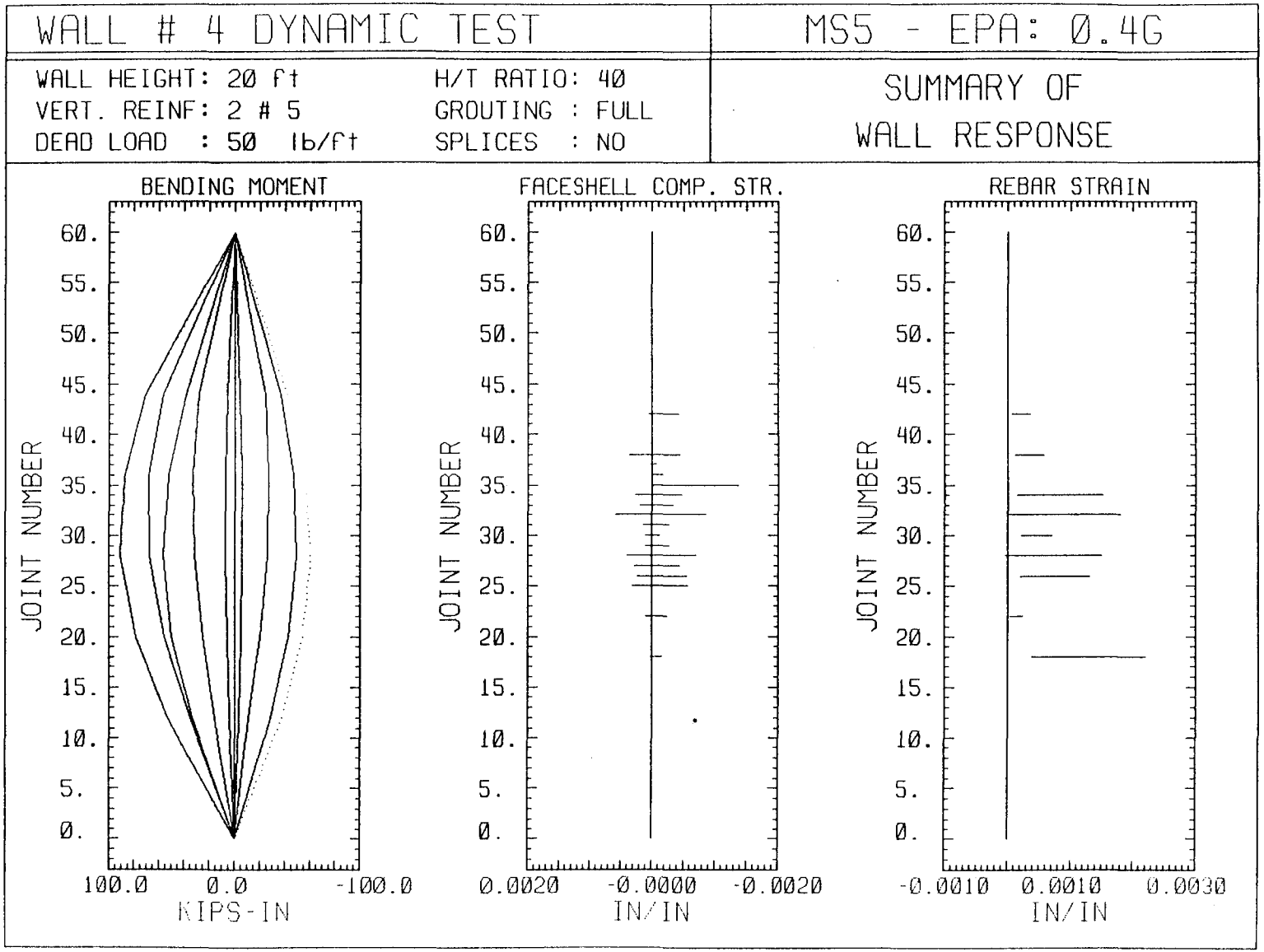

WALL # 4 DYNAMIC TEST
TAFT2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.040
0.000
-0.040
INCHES
-0.005
0.005
0.020
INCHES
2.0
0.0
-2.0
1.0E-3/IN

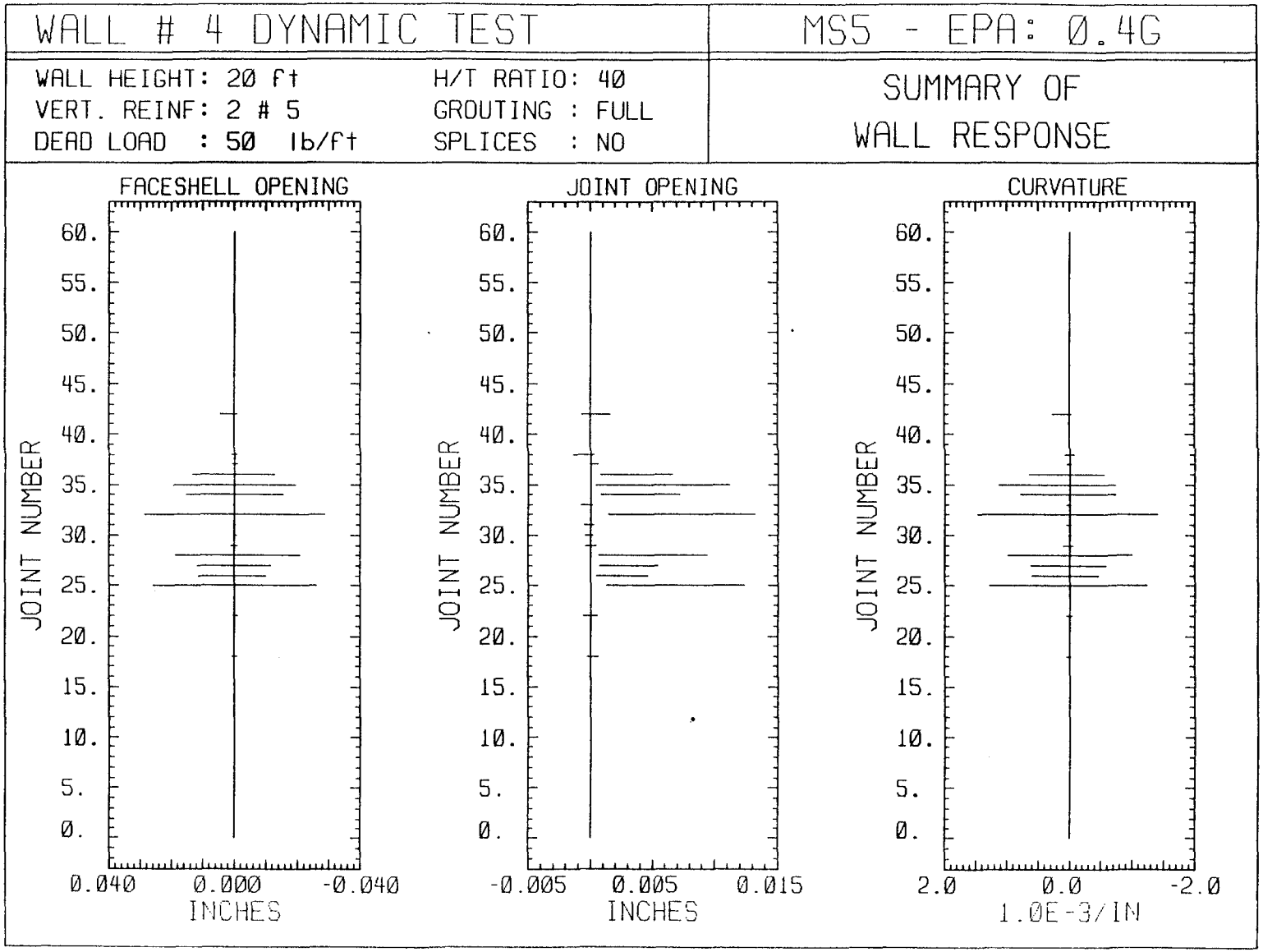

WALL # 4 DYNAMIC TEST
ELC2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
4.0
0.0
-4.0
INCHES
2.0
0.0
-2.0
INCHES
0.80
-0.00
-0.80
G's

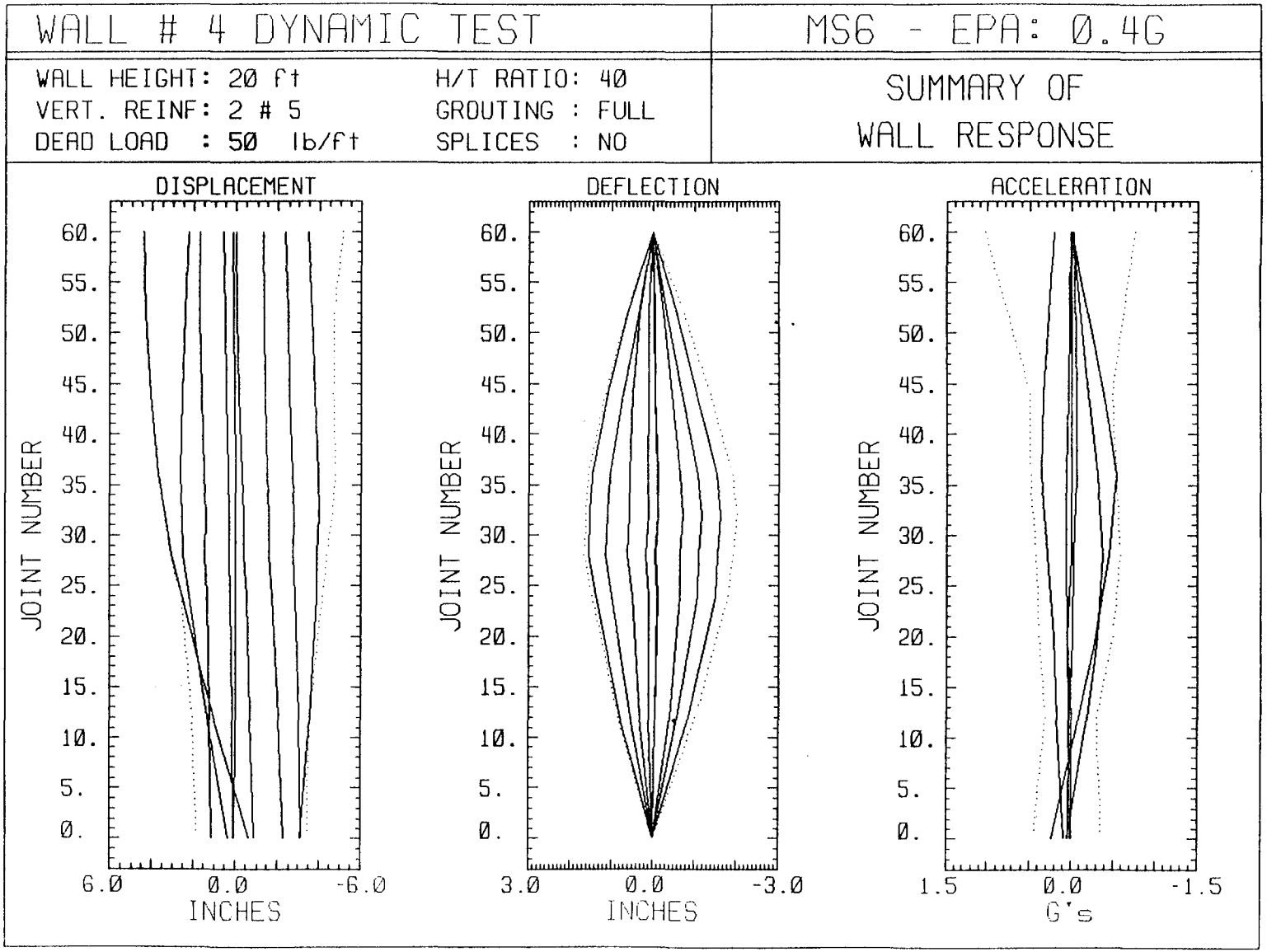

WALL # 4 DYNAMIC TEST
ELC2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
FACESHELL COMP. STR.
0.0015
-0.0000
-0.0015
IN/IN
REBAR STRAIN
-0.0010
0.0010
0.0030
IN/IN

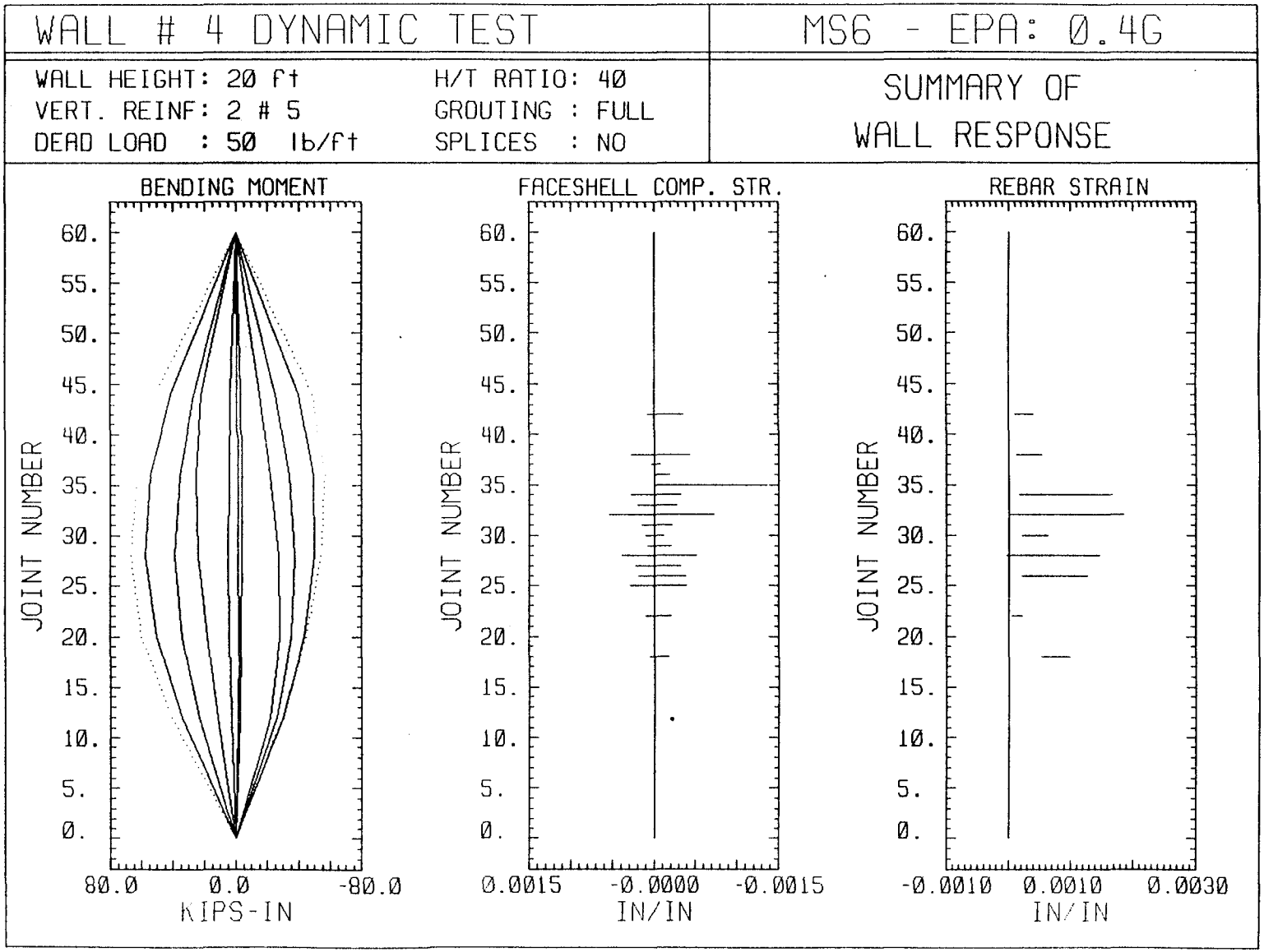

WALL # 4 DYNAMIC TEST
ELC2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.040
0.000
-0.040
INCHES
-0.005
0.005
0.015
INCHES
2.0
0.0
-2.0
1.0E-3/IN

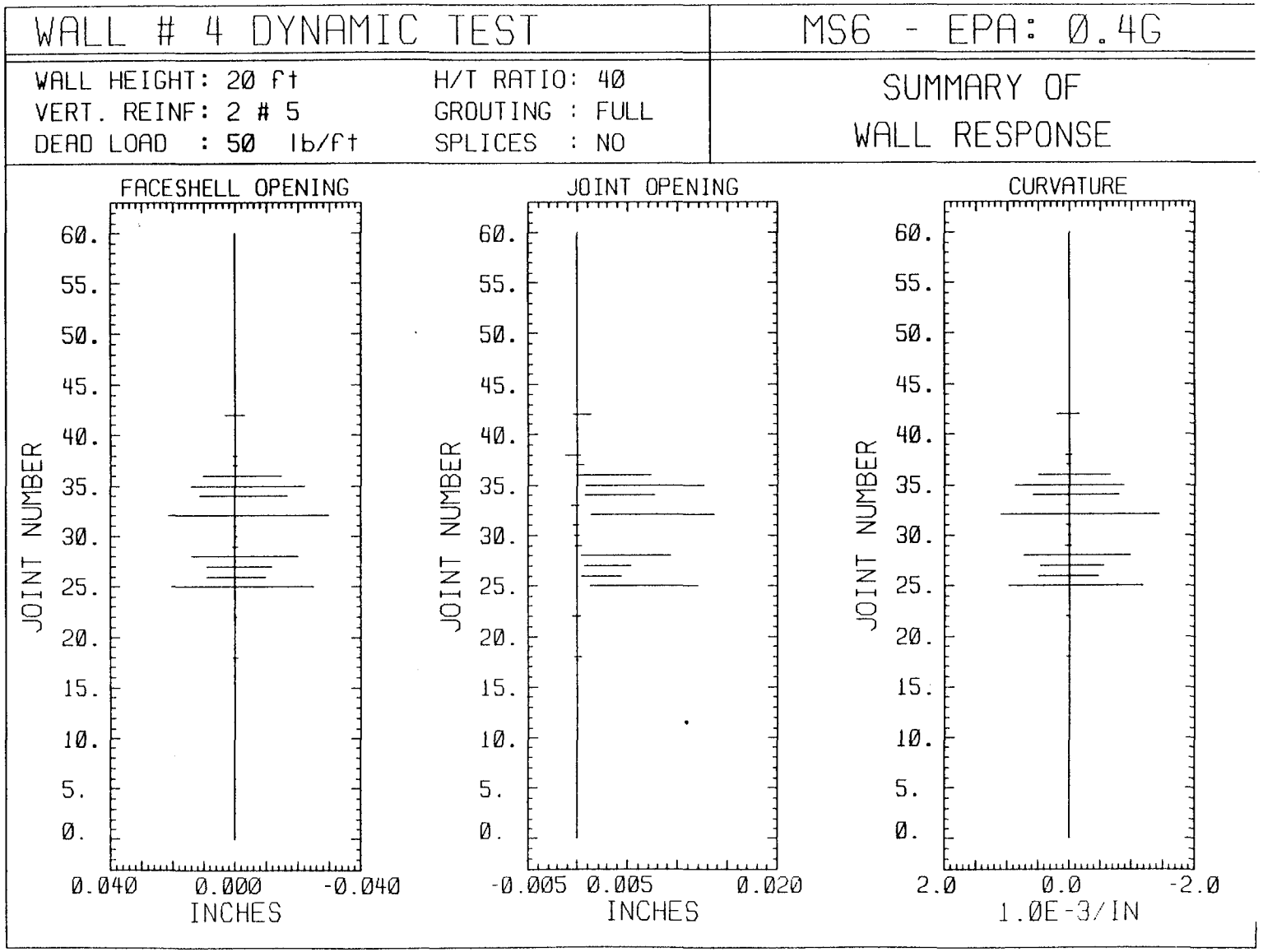

WALL # 4 DYNAMIC TEST
MS5 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
8.0
0.0
-8.0
3.0
-3.0
0.80
-0.00
-0.80
INCHES
G's

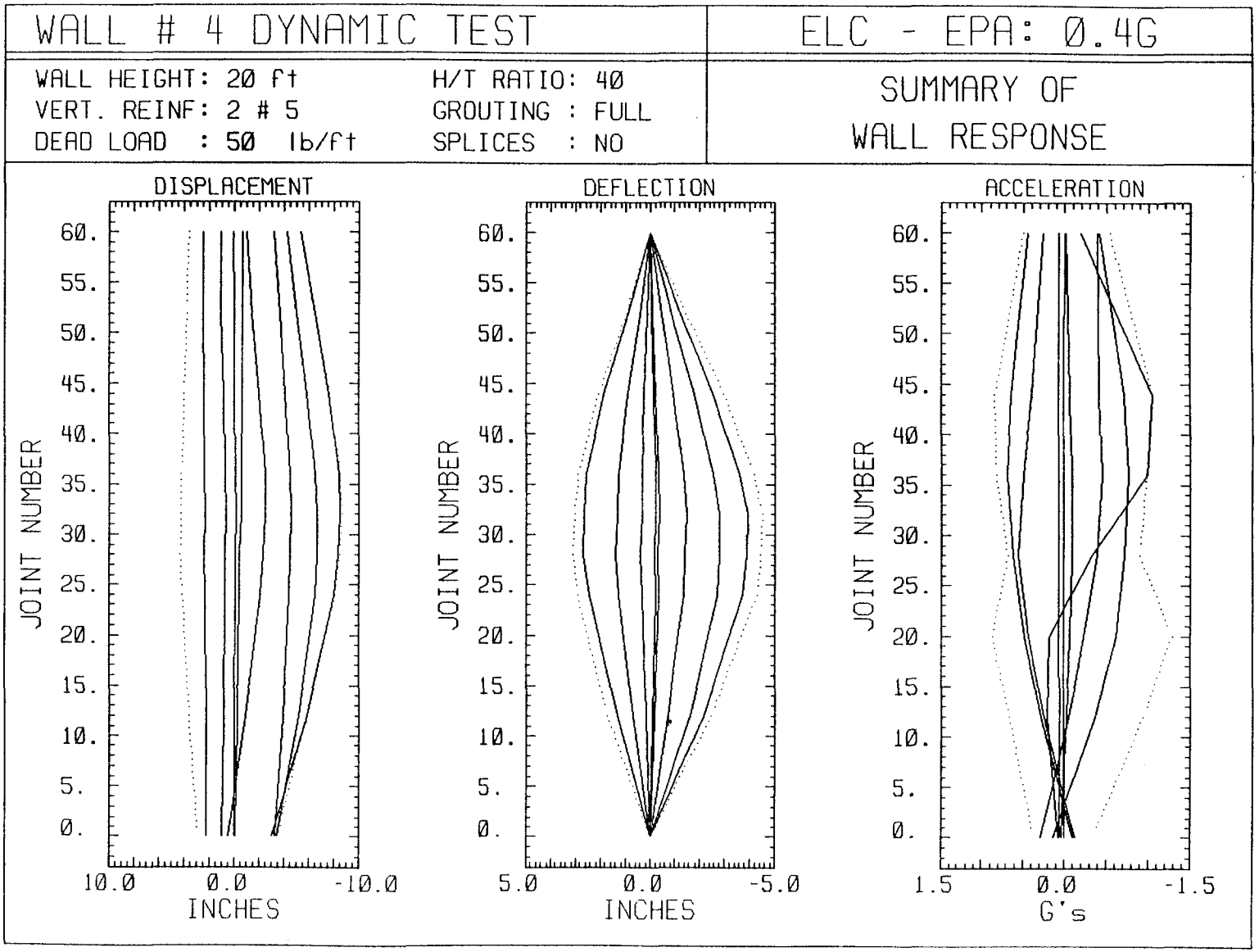

WALL # 4 DYNAMIC TEST
MS5 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
FACESHELL COMP. STR.
0.0020
-0.0000
-0.0020
IN/IN
REBAR STRAIN
-0.0010
0.0010
0.0030
IN/IN

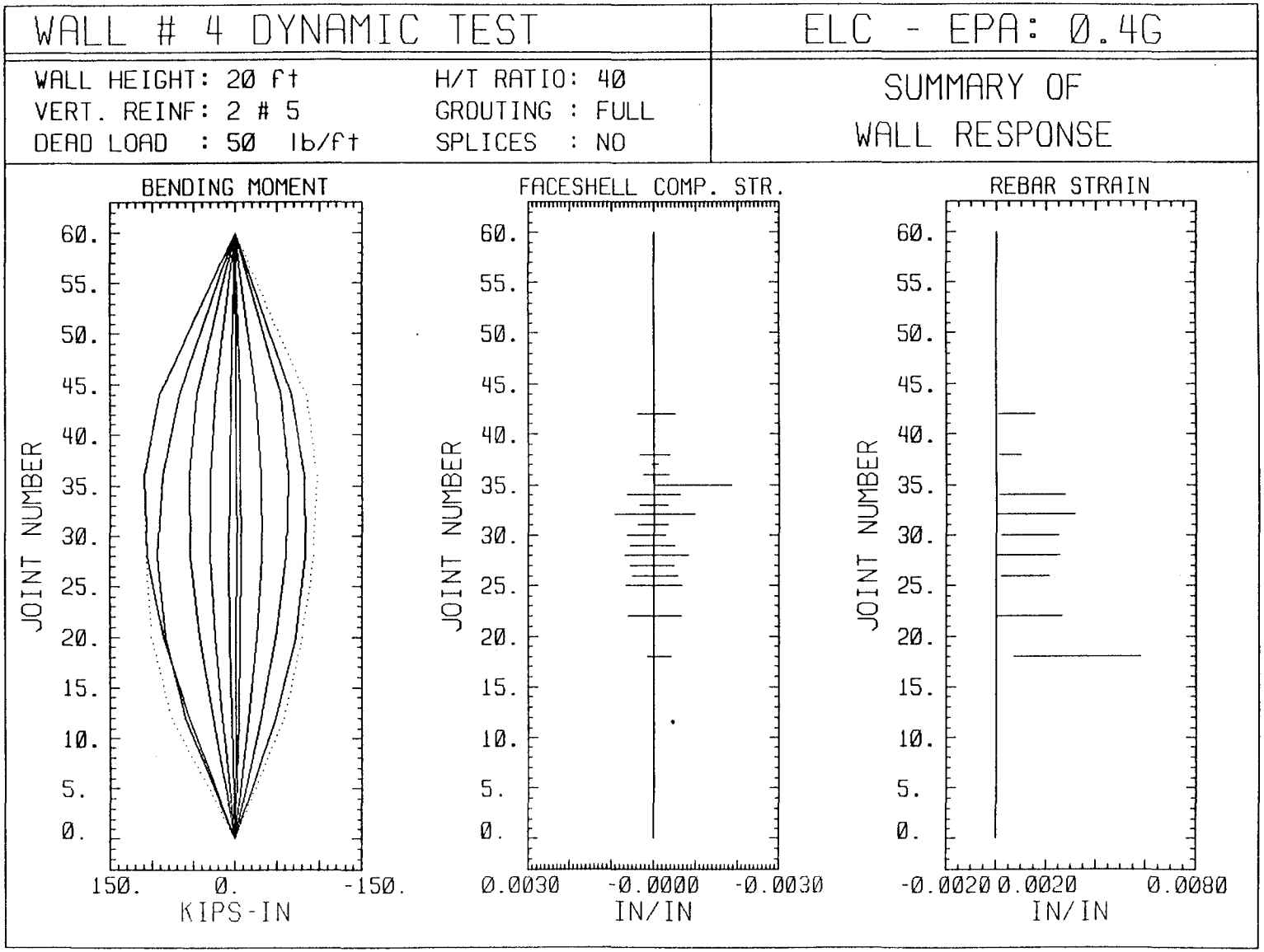

WALL # 4 DYNAMIC TEST
MS5 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.040
0.000
-0.040
INCHES
-0.005
0.005
0.015
INCHES
2.0
0.0
-2.0
1.0E-3/IN

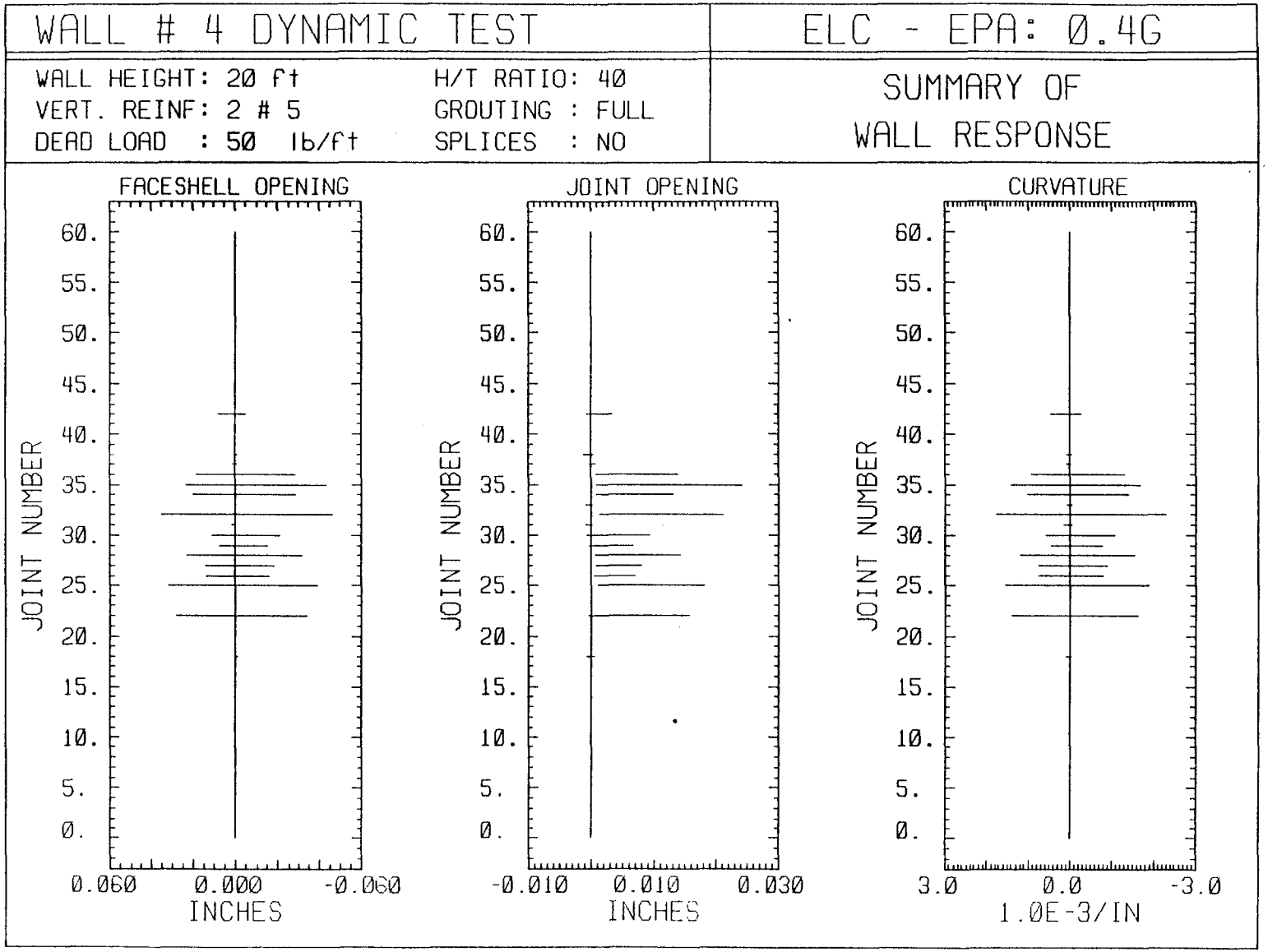

WALL # 4 DYNAMIC TEST
MS6 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
6.0
0.0
-6.0
INCHES
3.0
-3.0
1.5
-1.5
G's

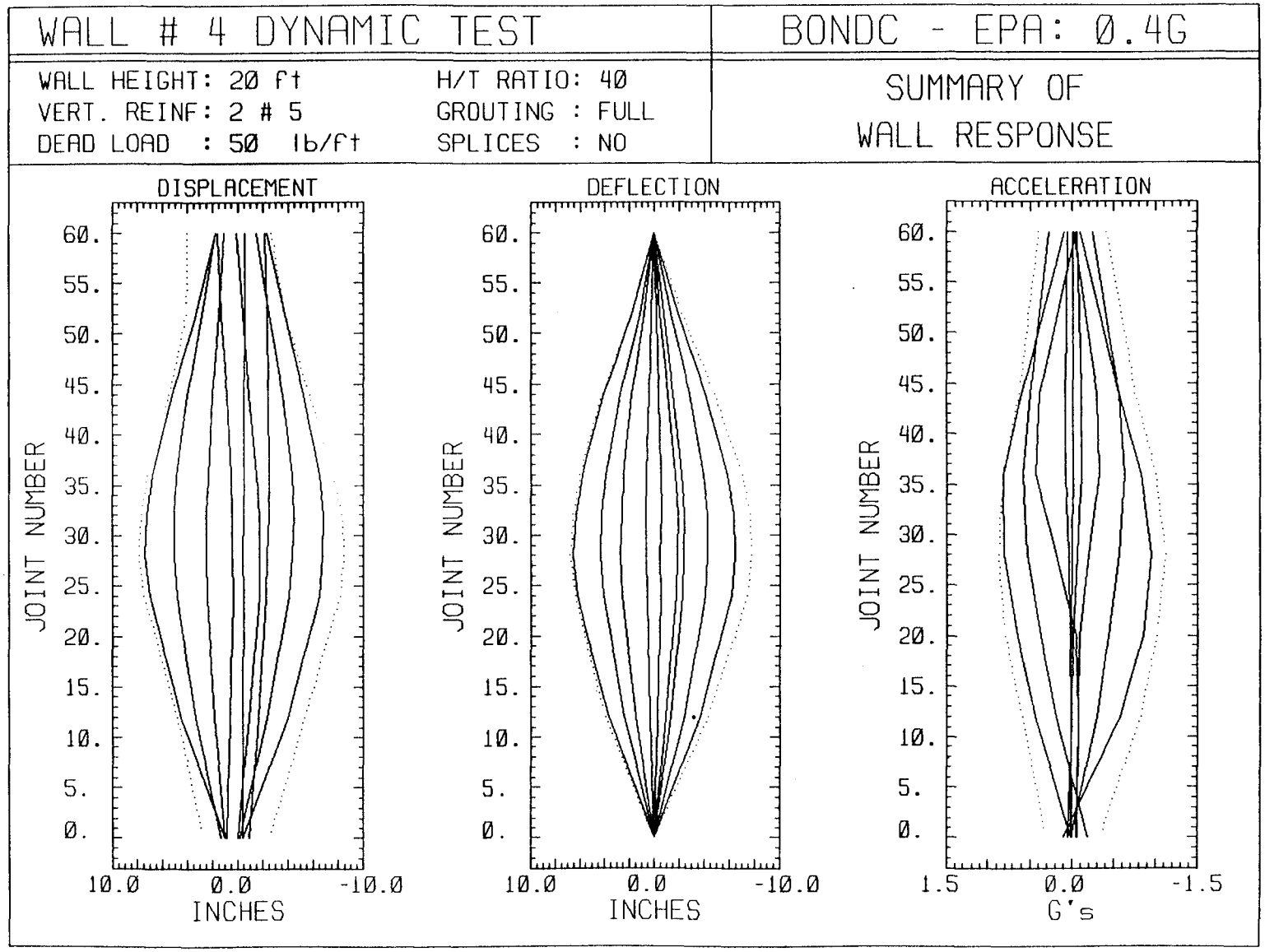

WALL # 4 DYNAMIC TEST
MS6 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
80.0
0.0
-80.0
KIPS-IN
FACESHELL COMP. STR.
0.0015
-0.0000
-0.0015
IN/IN
REBAR STRAIN
-0.0010
0.0010
0.0030
IN/IN

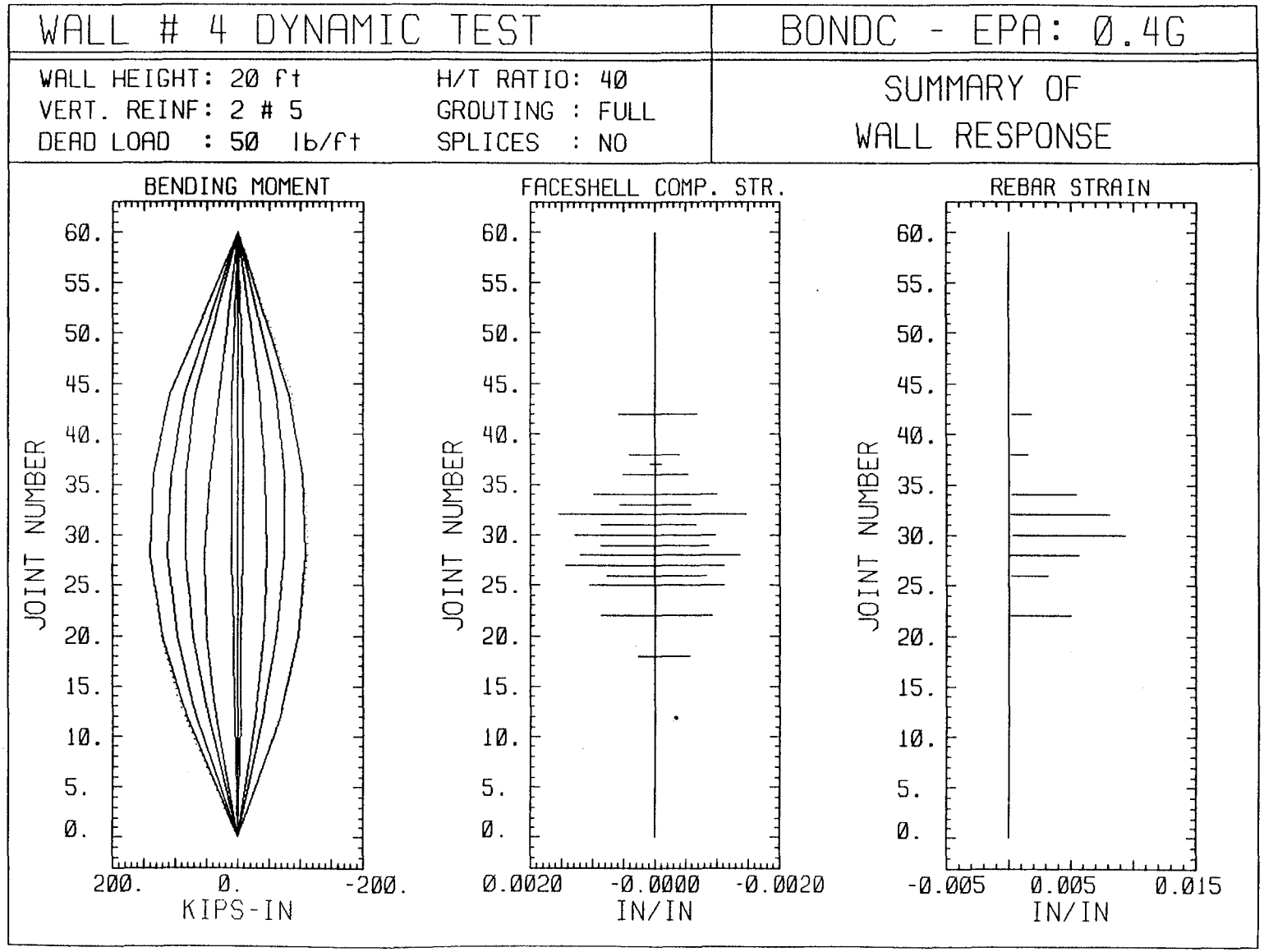

WALL # 4 DYNAMIC TEST
MS6 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.040
0.000
-0.040
INCHES
-0.005
0.005
0.020
INCHES
2.0
0.0
-2.0
1.0E-3/IN

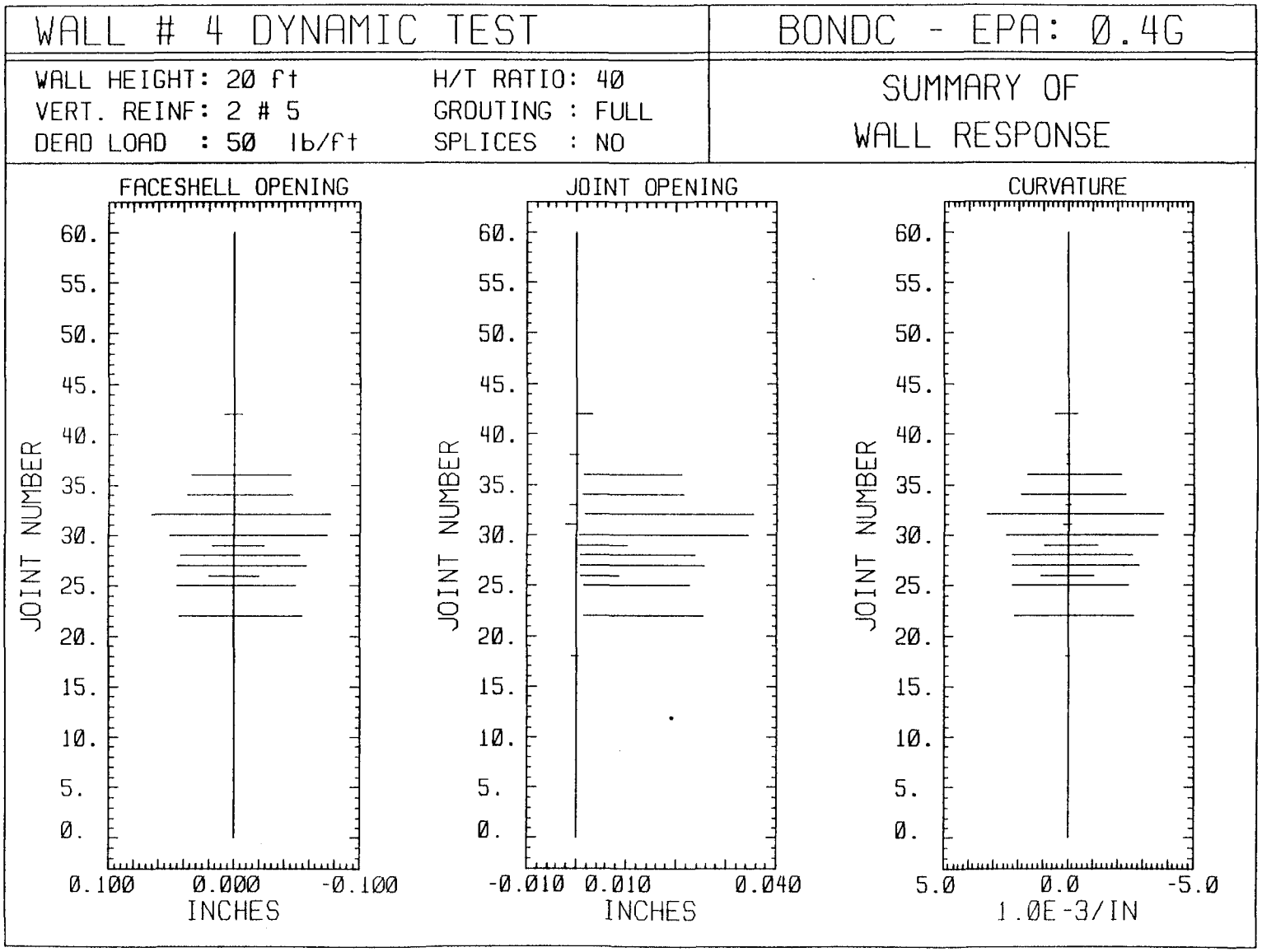

WALL # 4 DYNAMIC TEST
ELC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
10.0
0.0
-10.0
INCHES
5.0
0.0
-5.0
INCHES
1.5
0.0
-1.5
G's

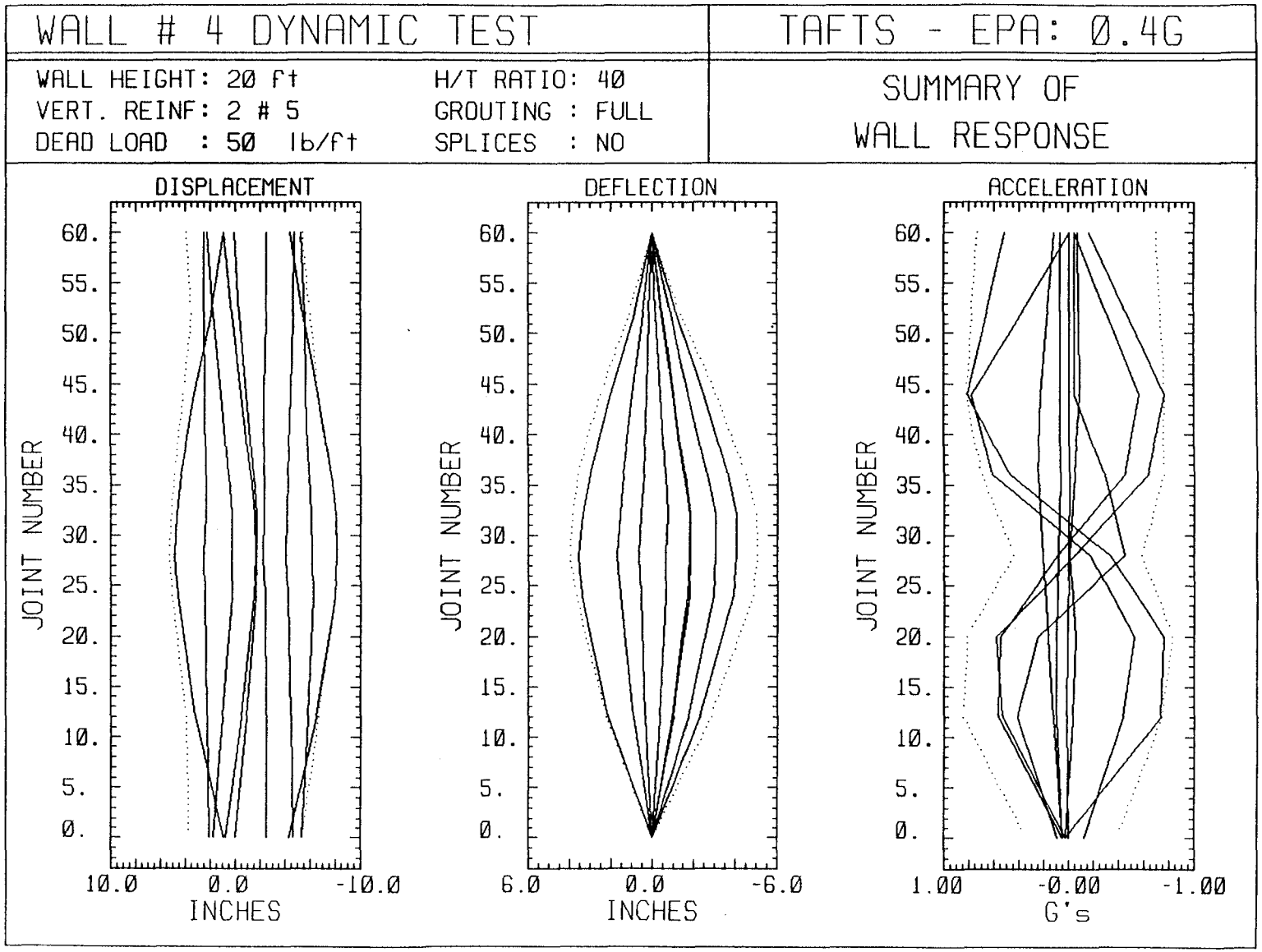

WALL # 4 DYNAMIC TEST
ELC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
150.
0.
-150.
KIPS-IN
FACESHELL COMP. STR.
0.0030
-0.0000
-0.0030
IN/IN
REBAR STRAIN
-0.0020
0.0020
0.0080
IN/IN

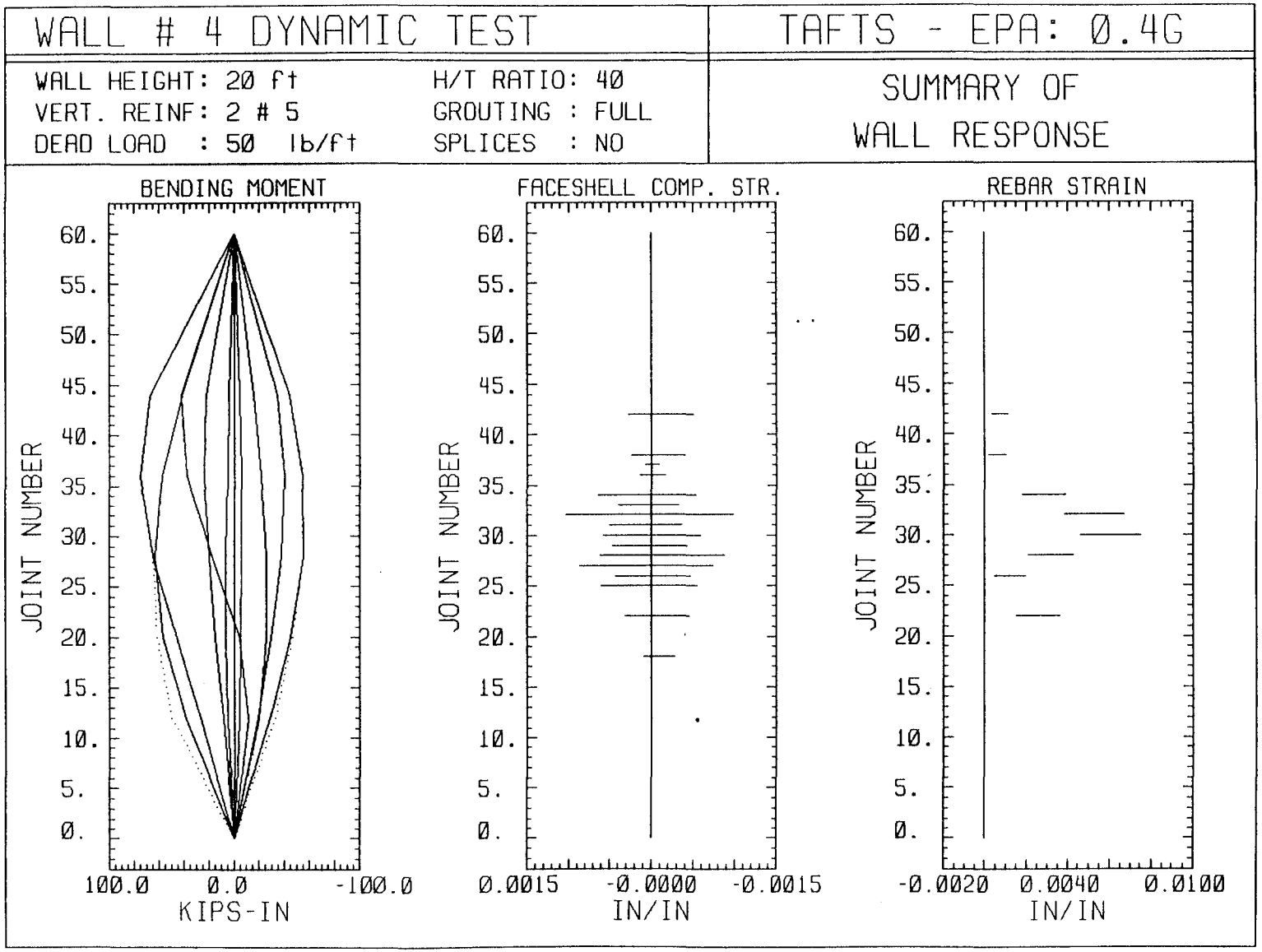

WALL # 4 DYNAMIC TEST
ELC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.060
0.000
-0.060
-0.010
0.010
0.030
3.0
0.0
-3.0
INCHES
INCHES
1.0E-3/IN


WALL # 4 DYNAMIC TEST
BONDC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
10.0
0.0
-10.0
INCHES
1.5
-1.5
G's

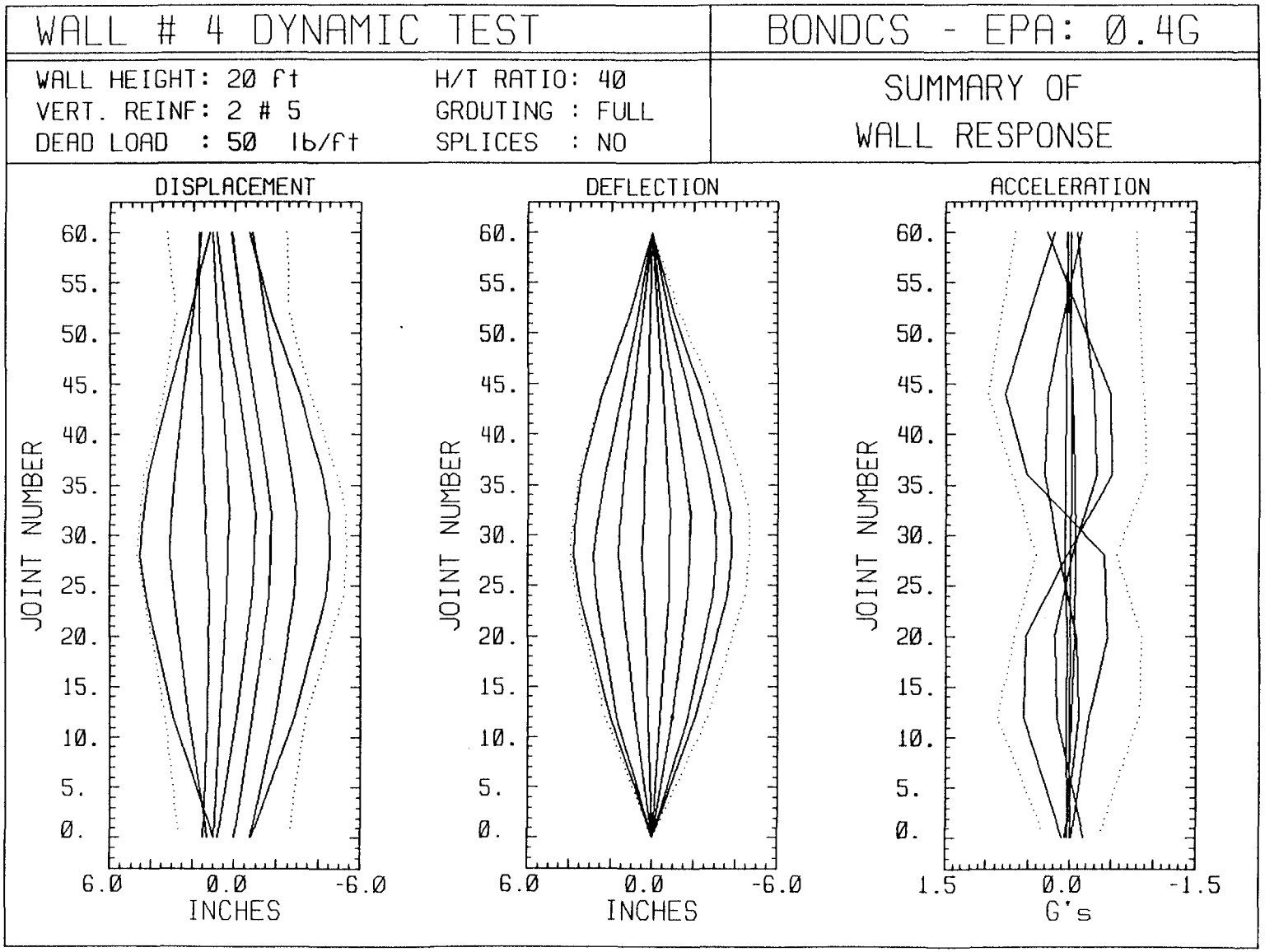

WALL # 4 DYNAMIC TEST
BONDC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
200.
0.
-200.
KIPS-IN
FACESHELL COMP. STR.
JOINT NUMBER
0.0020
-0.0000
-0.0020
IN/IN
REBAR STRAIN
JOINT NUMBER
-0.005
0.005
0.015
IN/IN

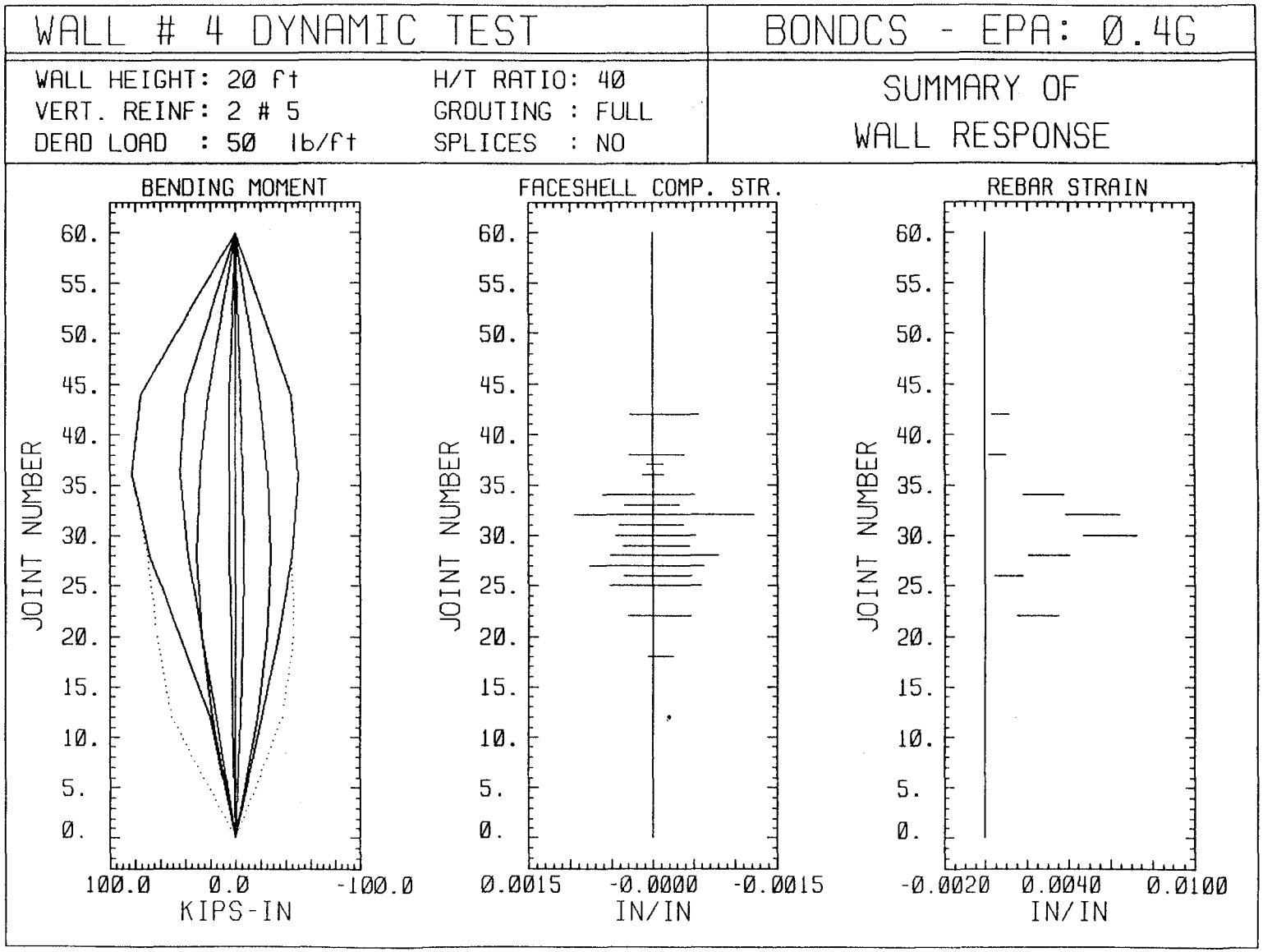

WALL # 4 DYNAMIC TEST
BONDC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.100
0.000
-0.100
INCHES
-0.010
0.010
0.040
5.0
0.0
-5.0
1.0E-3/IN

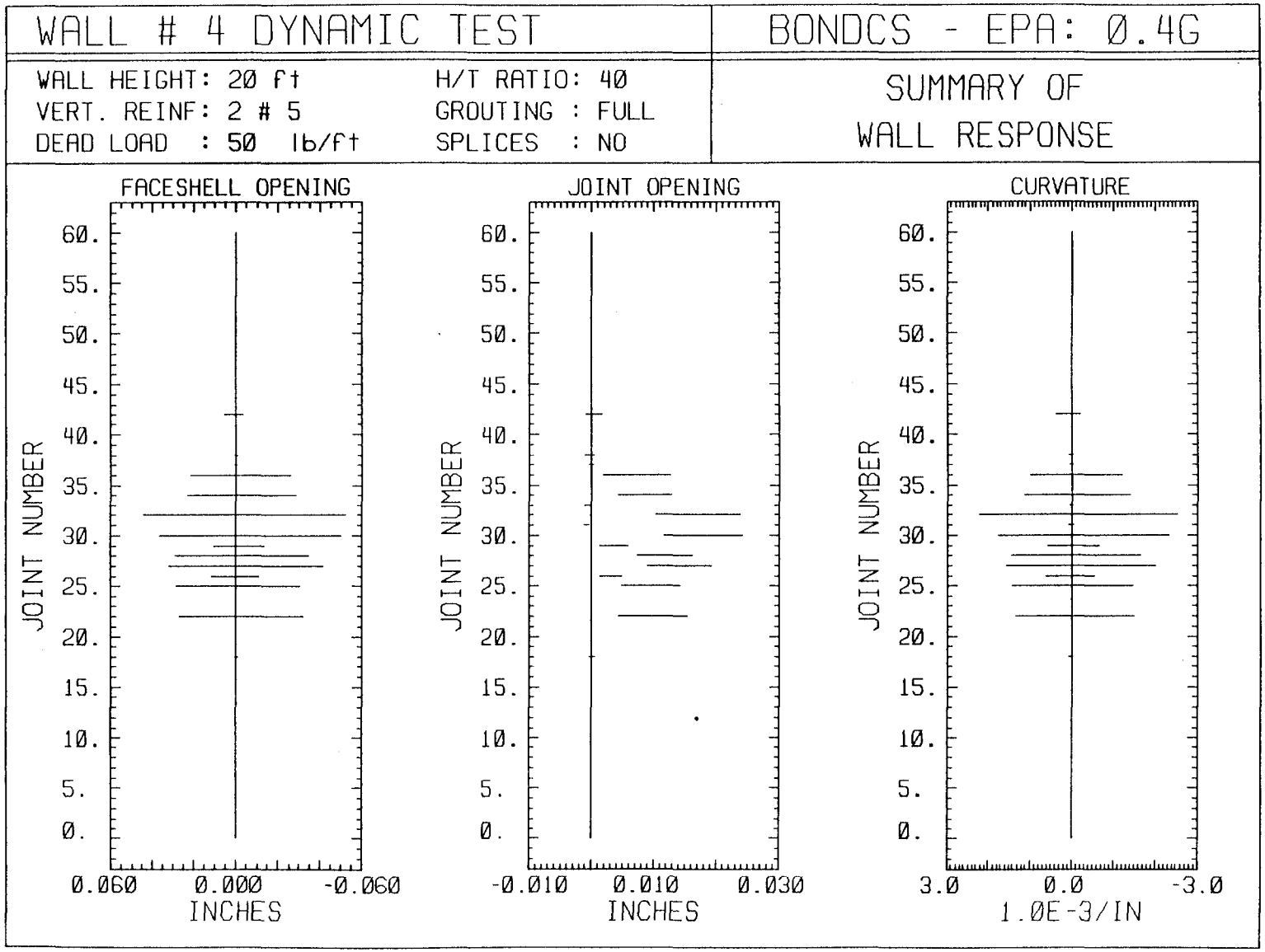

WALL # 4 DYNAMIC TEST
TAFTS - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
10.0
0.0
-10.0
INCHES
6.0
0.0
-6.0
INCHES
1.00
-0.00
-1.00
G's

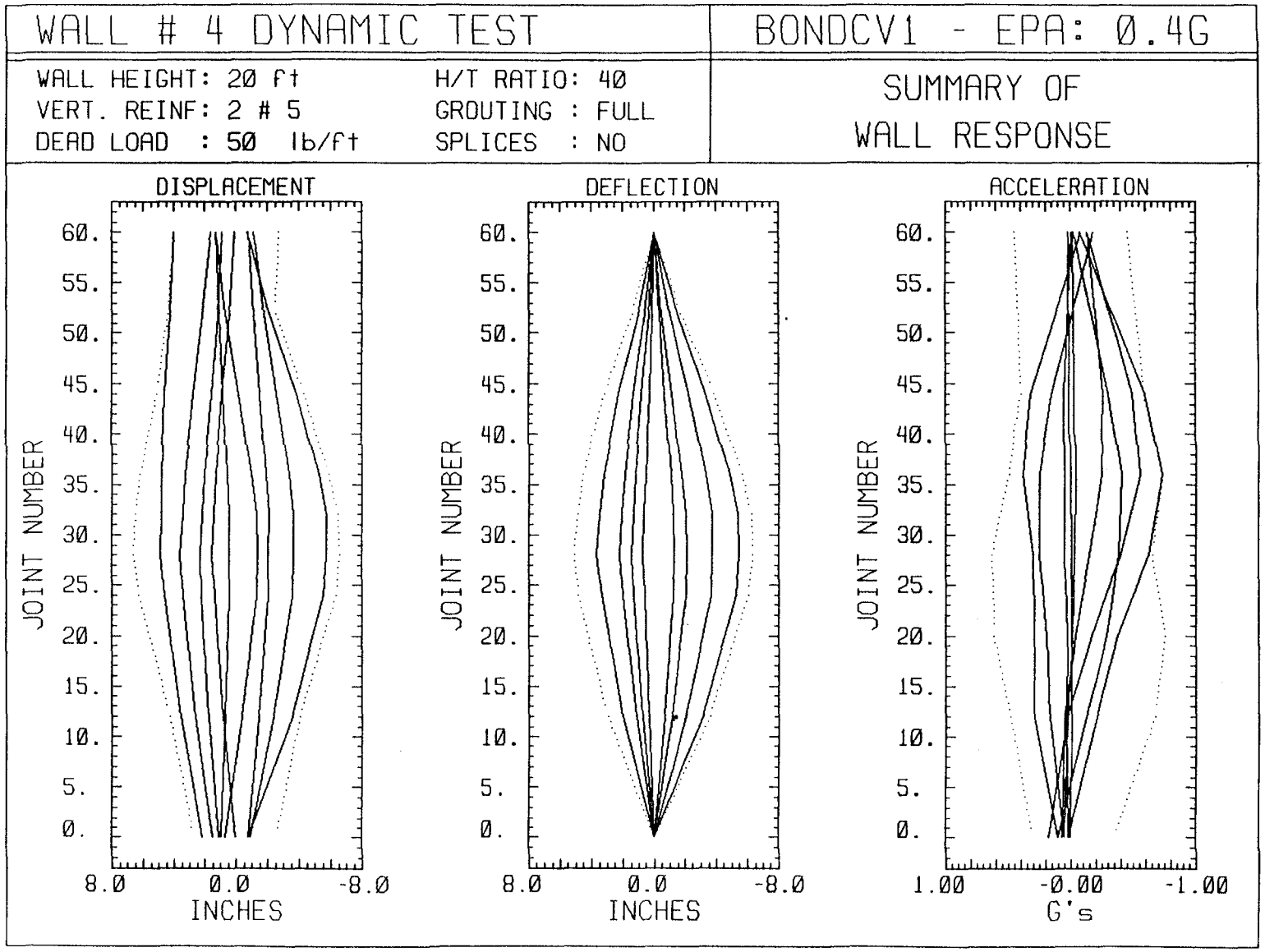

WALL # 4 DYNAMIC TEST
TAFTS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
FACESHELL COMP. STR.
0.0015
-0.0000
-0.0015
IN/IN
REBAR STRAIN
-0.0020
0.0040
0.0100
IN/IN

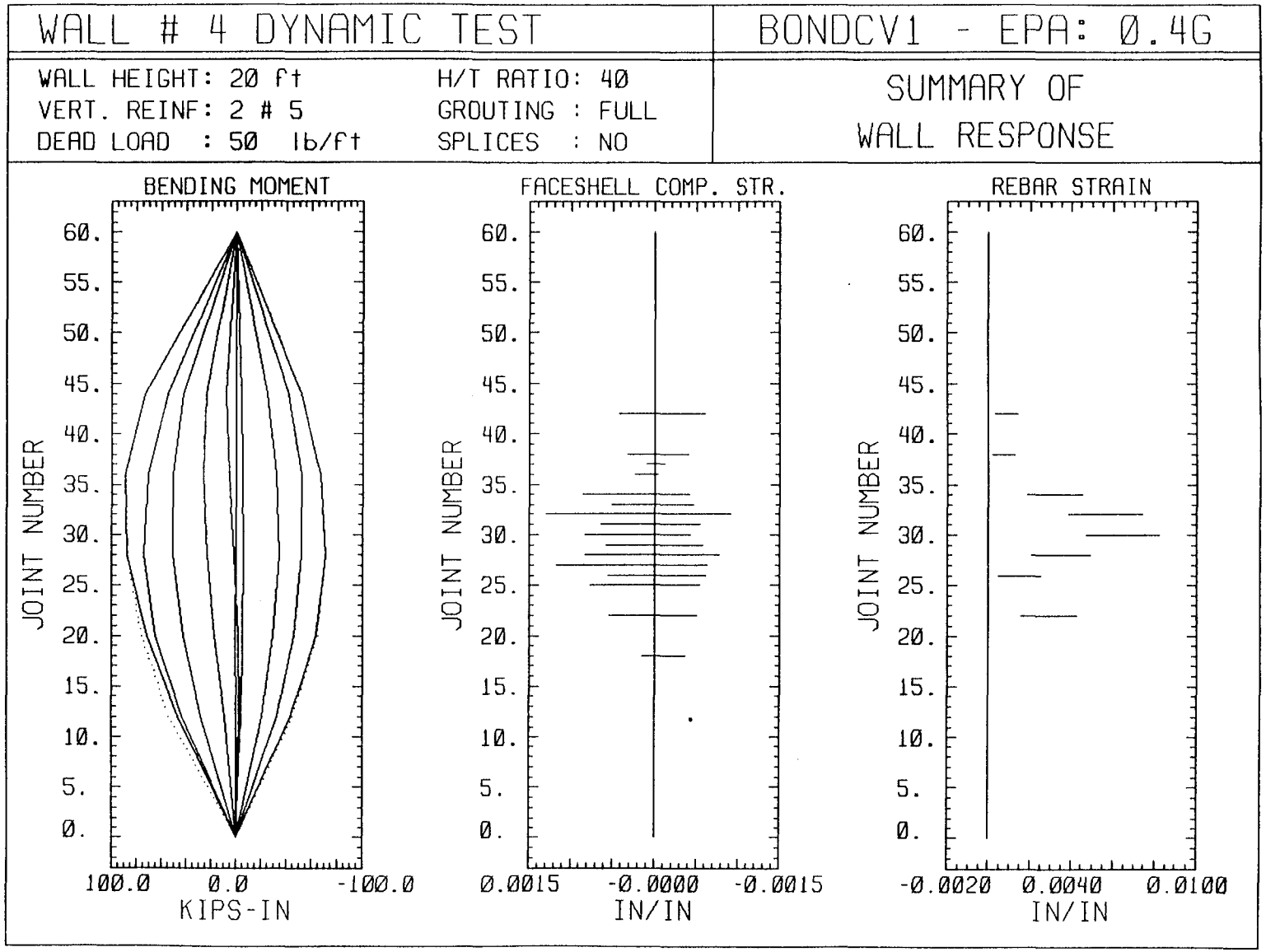
WALL # 4 DYNAMIC TEST
TAFTS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
INCHES
1.0E-3/IN

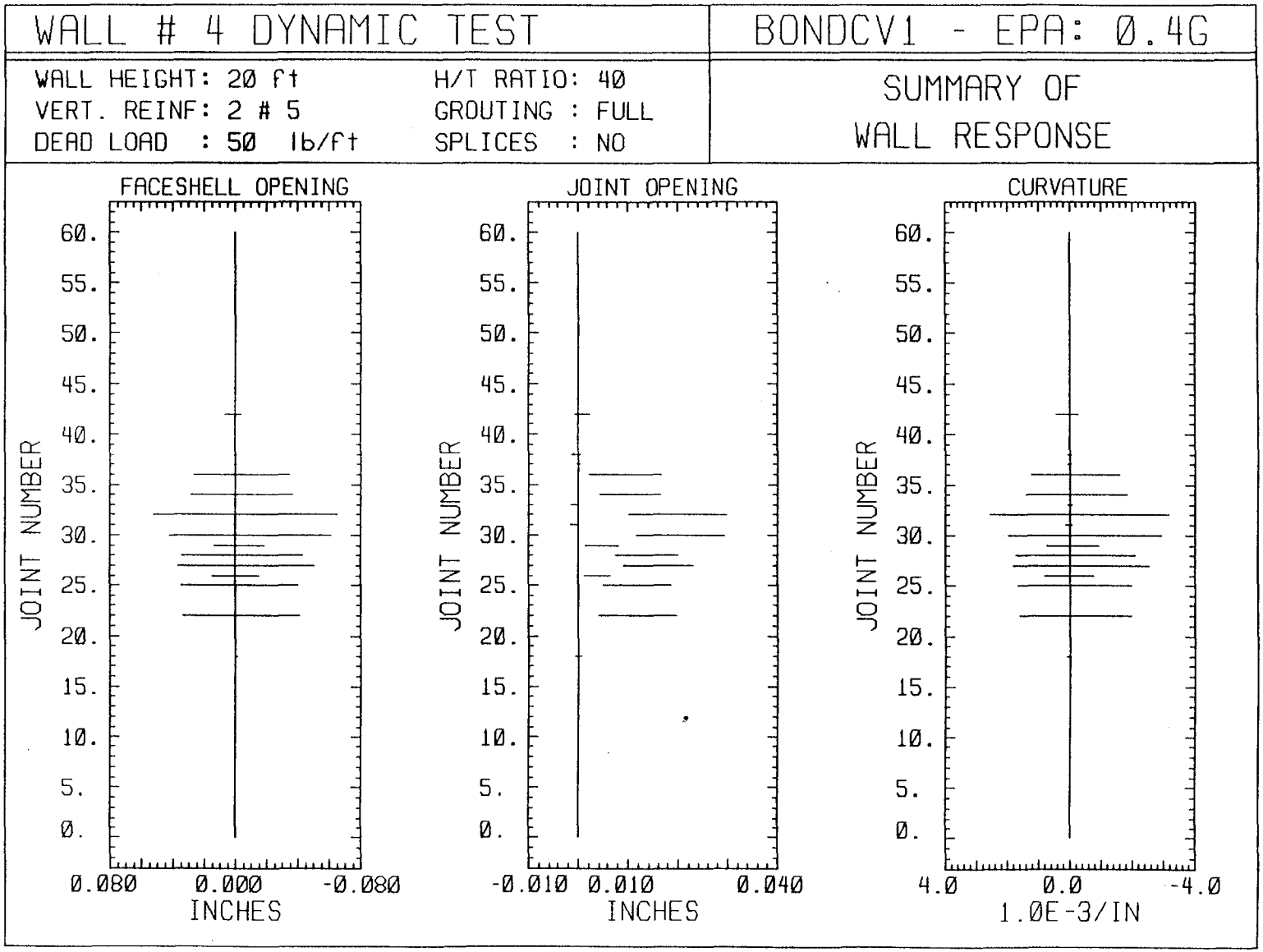

WALL # 4 DYNAMIC TEST
BONDCS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
6.0
0.0
-6.0
INCHES
1.5
-1.5
G's

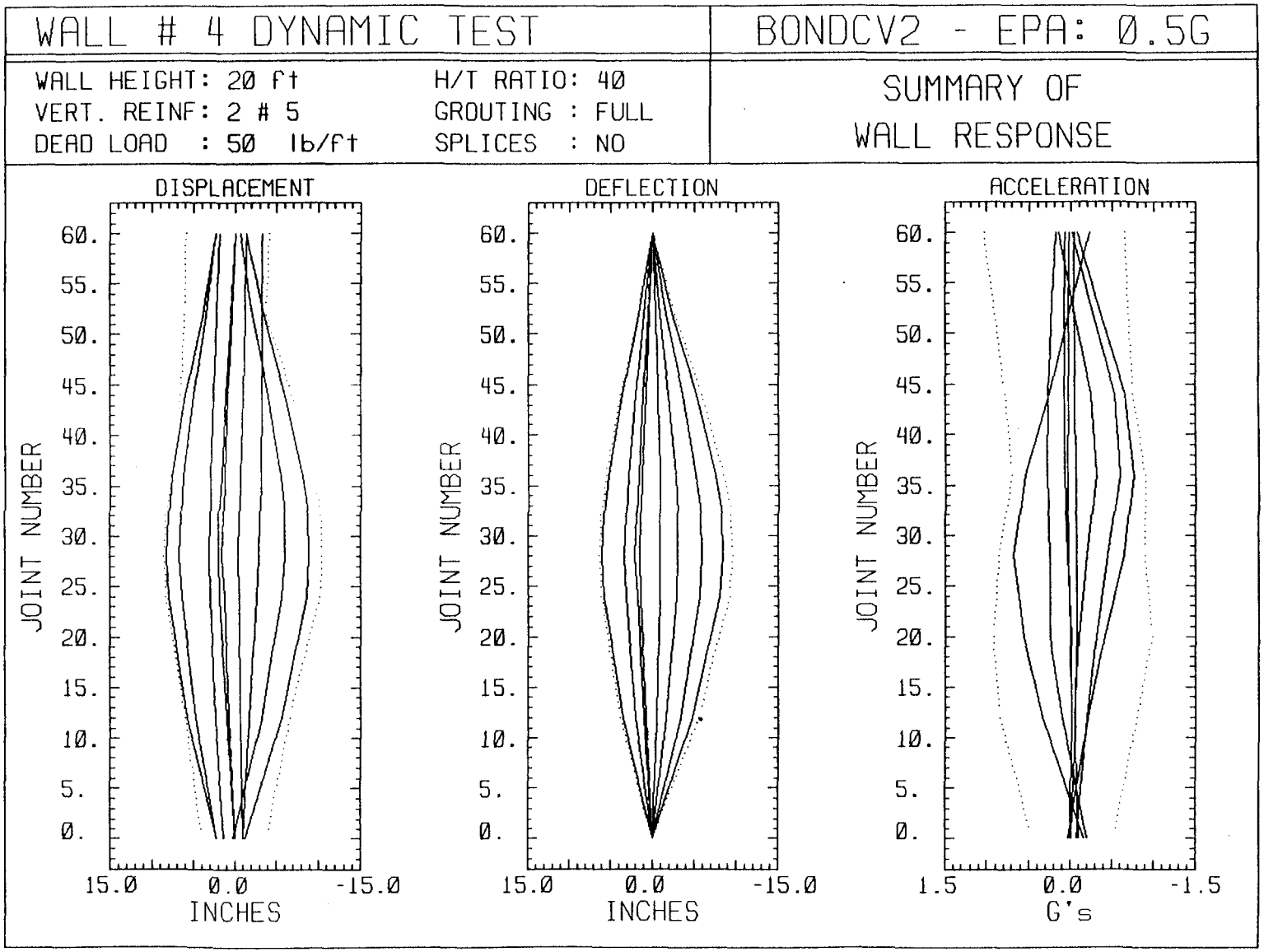

WALL # 4 DYNAMIC TEST
BONDCS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
FACESHELL COMP. STR.
0.0015
-0.0000
-0.0015
IN/IN
REBAR STRAIN
-0.0020
0.0040
0.0100
IN/IN

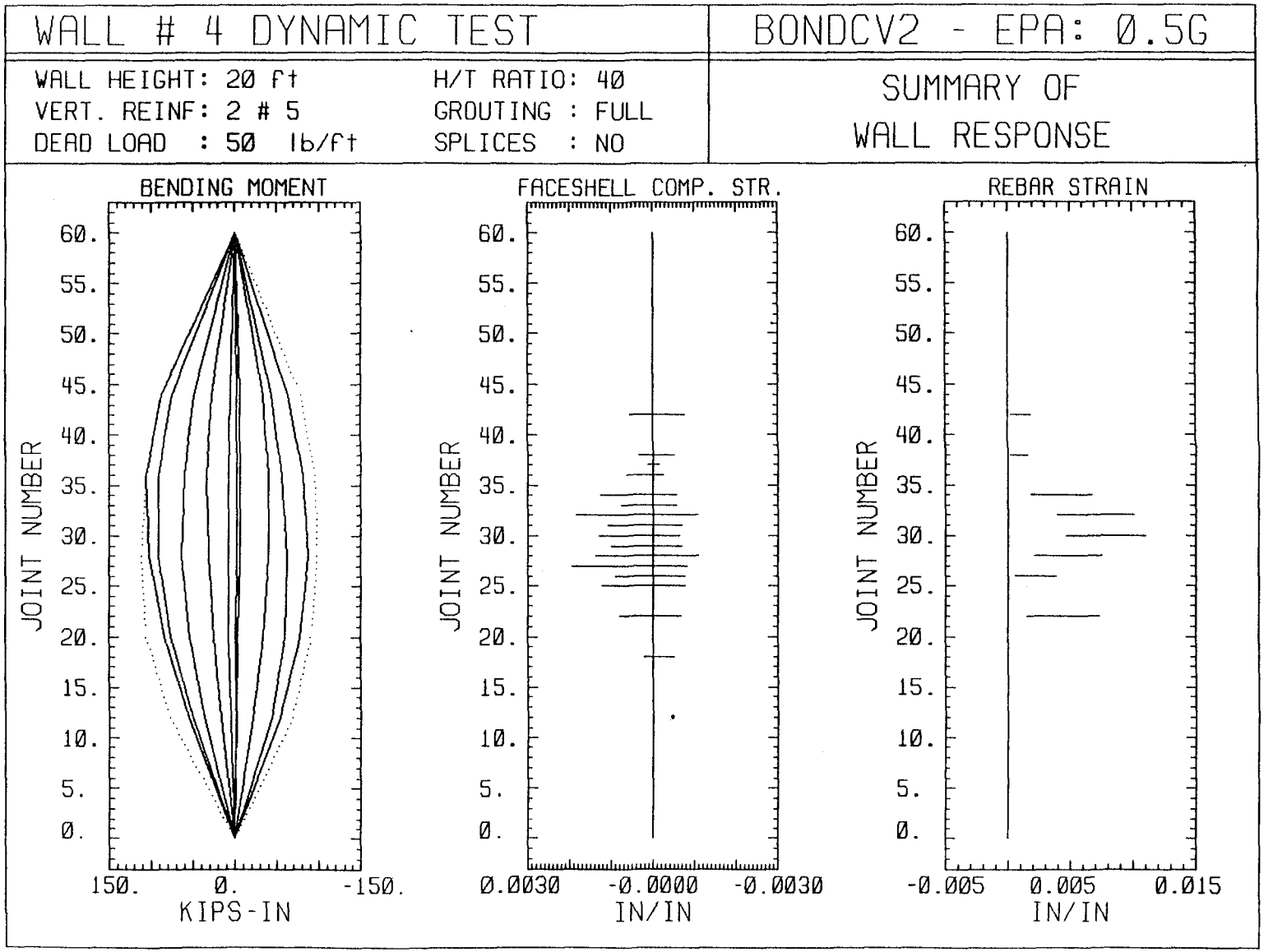

WALL # 4 DYNAMIC TEST
BONDCS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.060
0.000
-0.060
-0.010
0.010
0.030
3.0
0.0
-3.0
INCHES
1.0E-3/IN

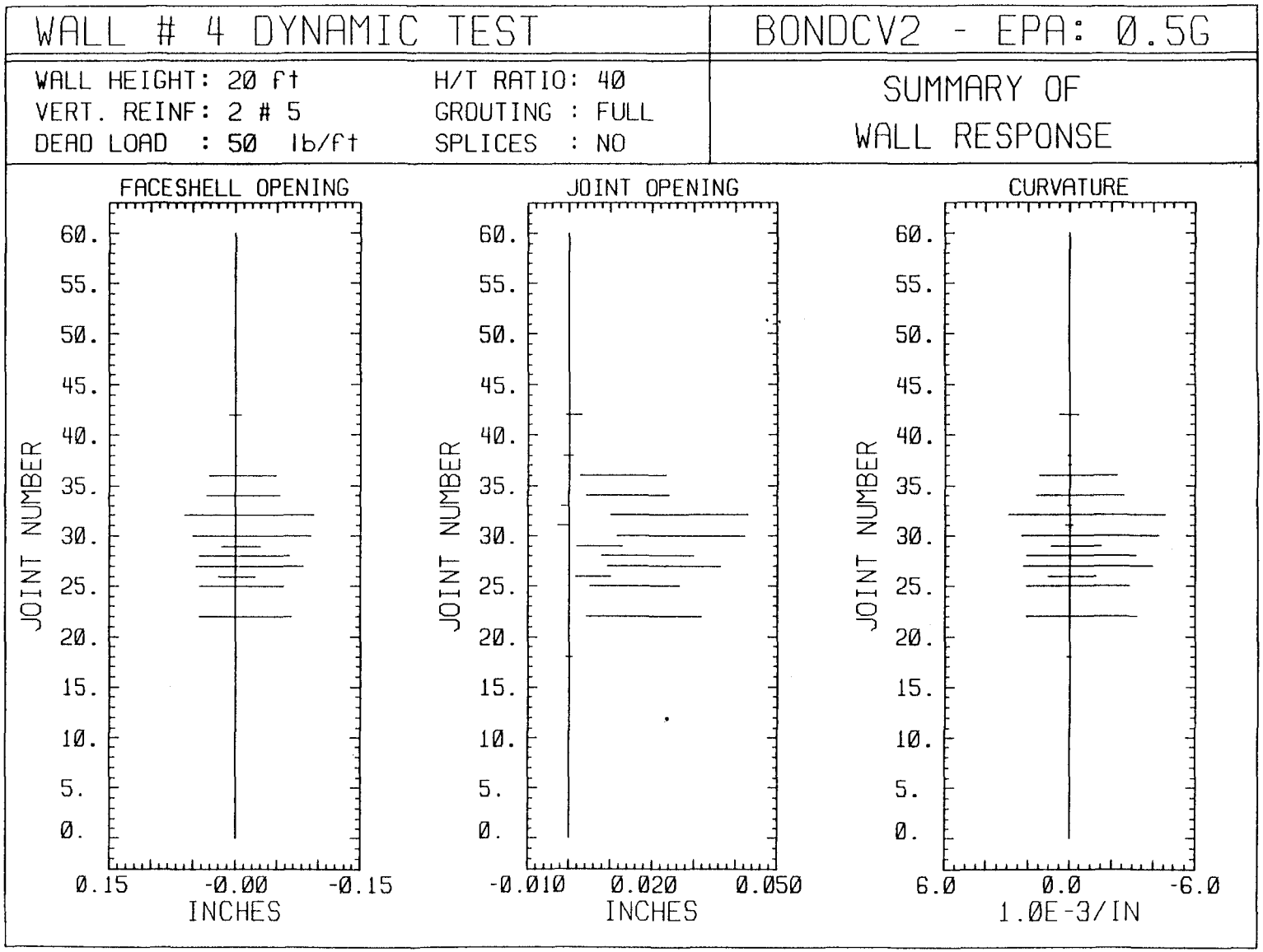

WALL # 4 DYNAMIC TEST
BONDCV1 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
8.0
0.0
-8.0
INCHES
1.00
-0.00
-1.00
G's

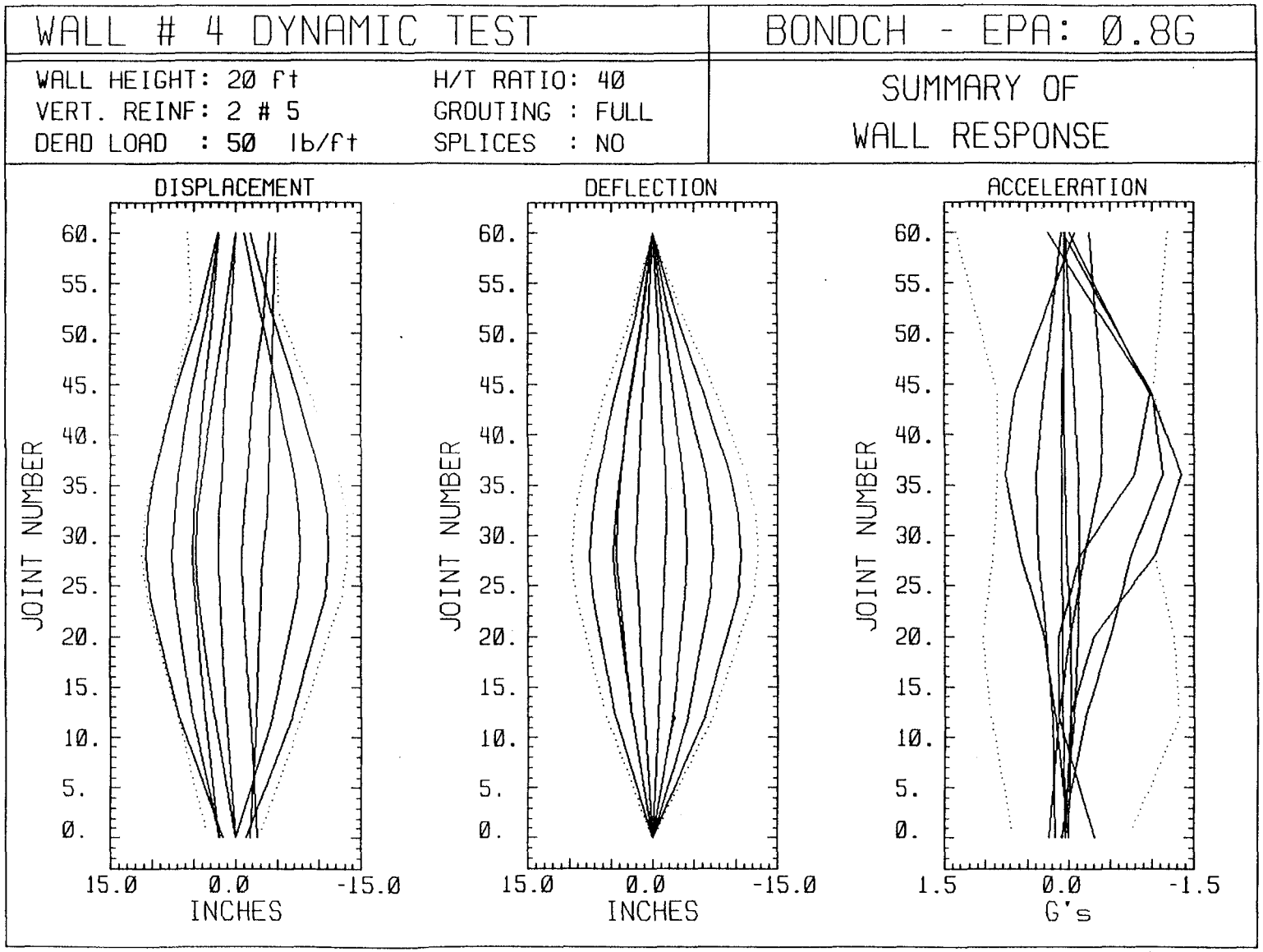

WALL # 4 DYNAMIC TEST
BONDCV1 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
FACESHELL COMP. STR.
JOINT NUMBER
0.0015
-0.0000
-0.0015
IN/IN
REBAR STRAIN
JOINT NUMBER
-0.0020
0.0040
0.0100
IN/IN

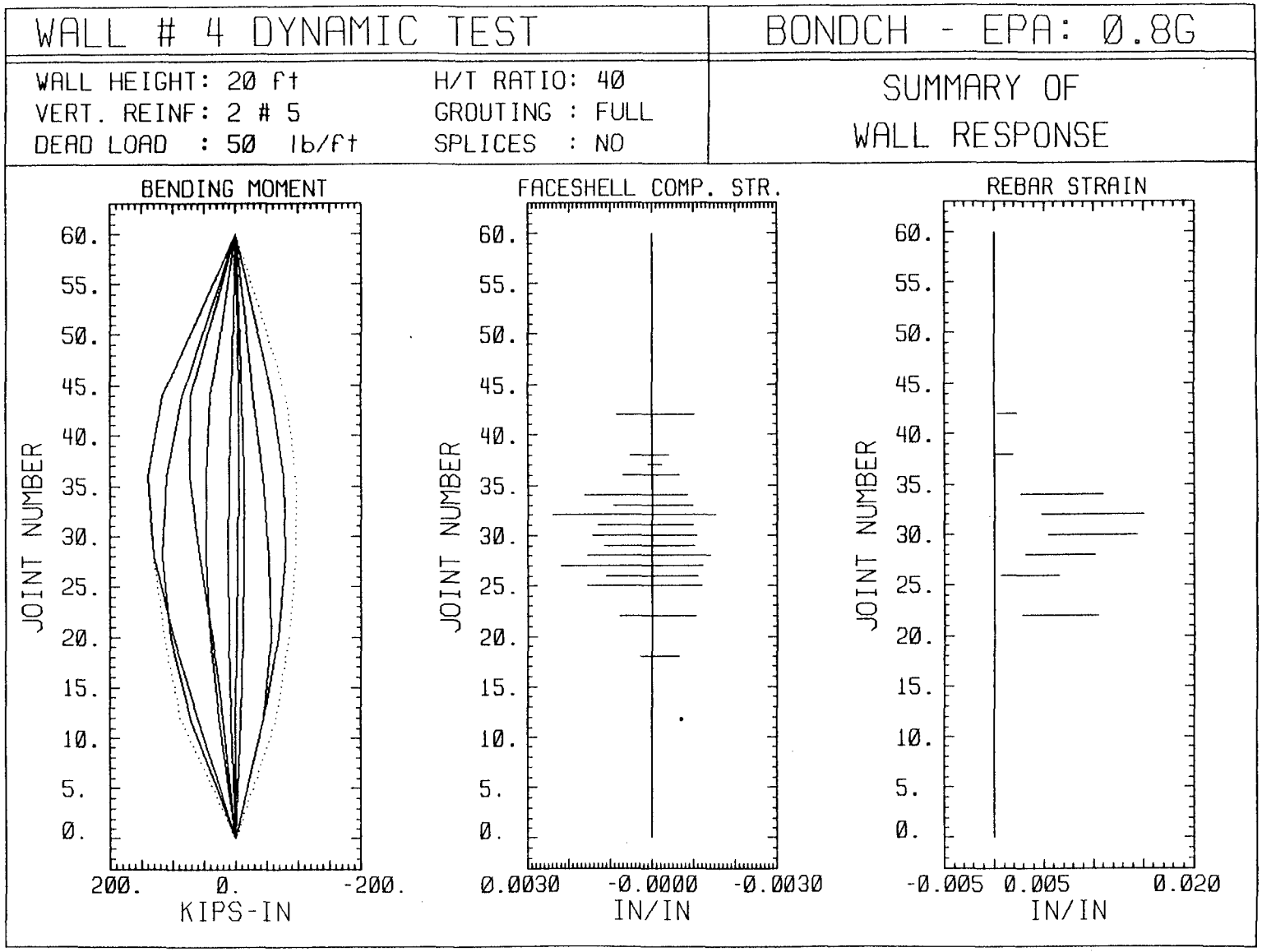

WALL # 4 DYNAMIC TEST
BONDCV1 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.080
0.000
-0.080
INCHES
-0.010
0.010
0.040
4.0
0.0
-4.0
1.0E-3/IN

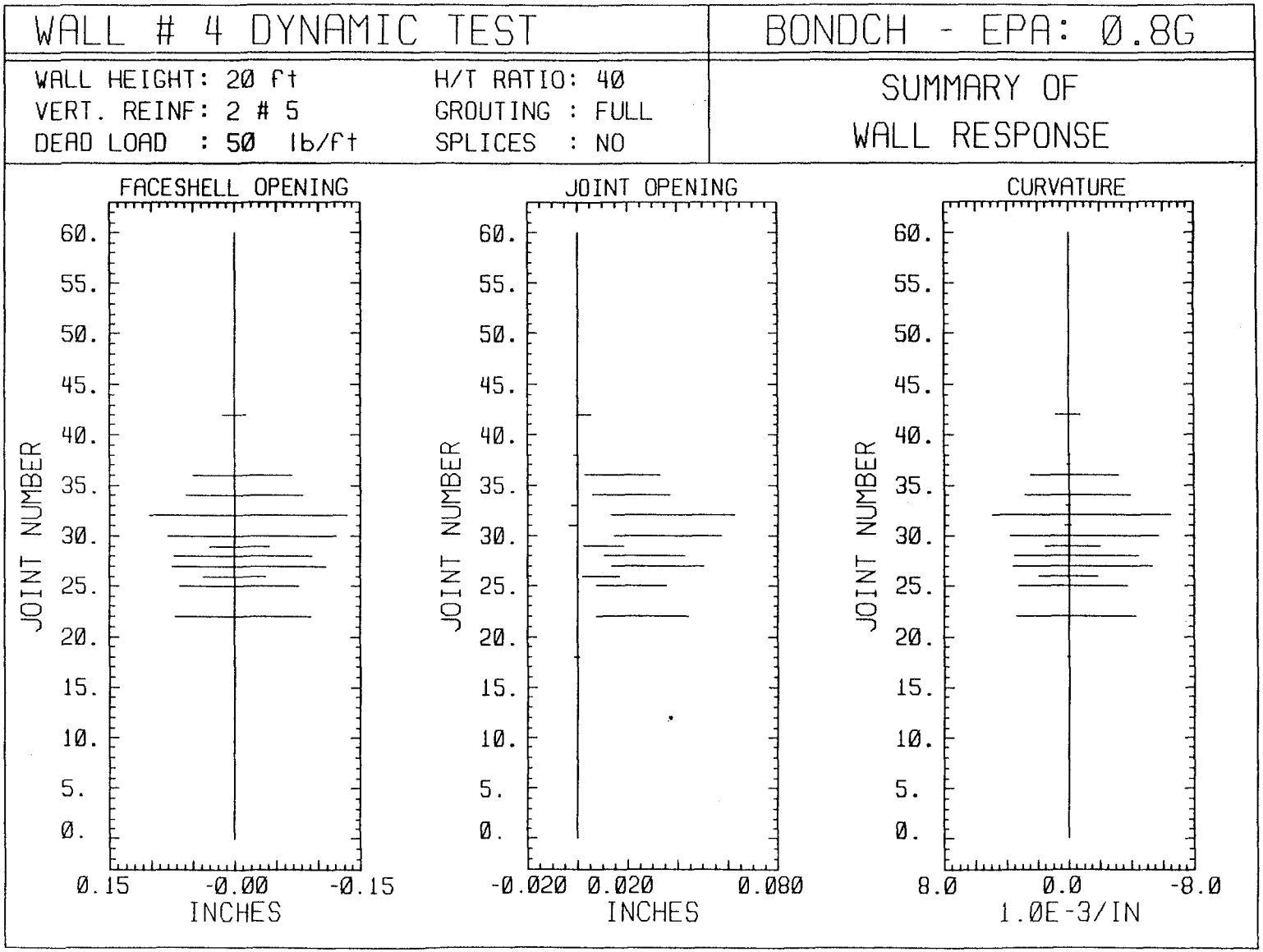

WALL # 4 DYNAMIC TEST
BONDCV2 - EPA: 0.5G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
15.0
0.0
-15.0
INCHES
1.5
-1.5
G's

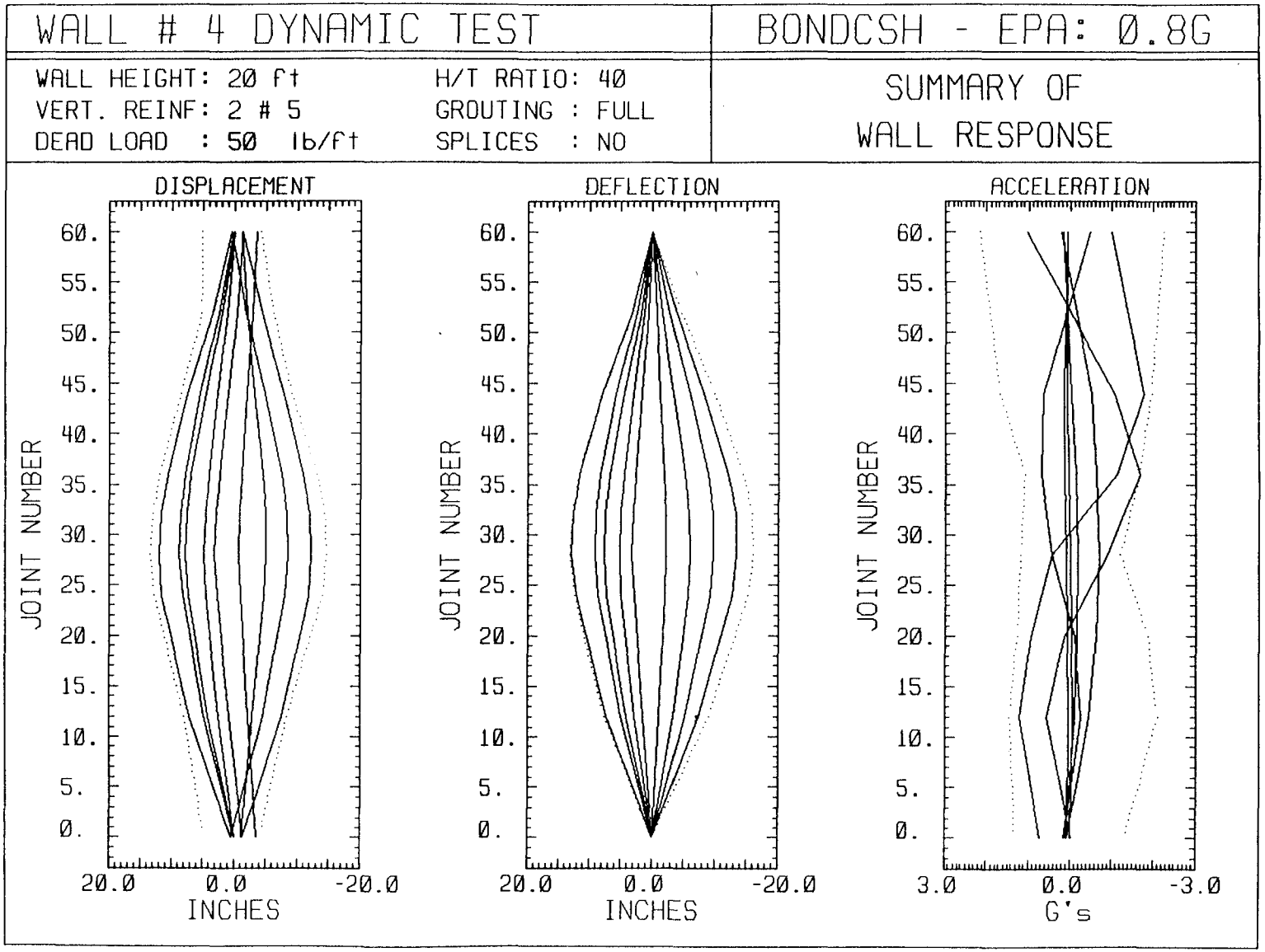

WALL # 4 DYNAMIC TEST
BONDCV2 - EPA: 0.5G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
150.
0.
-150.
KIPS-IN
FACESHELL COMP. STR.
JOINT NUMBER
0.0030
-0.0000
-0.0030
IN/IN
REBAR STRAIN
JOINT NUMBER
-0.005
0.005
0.015
IN/IN

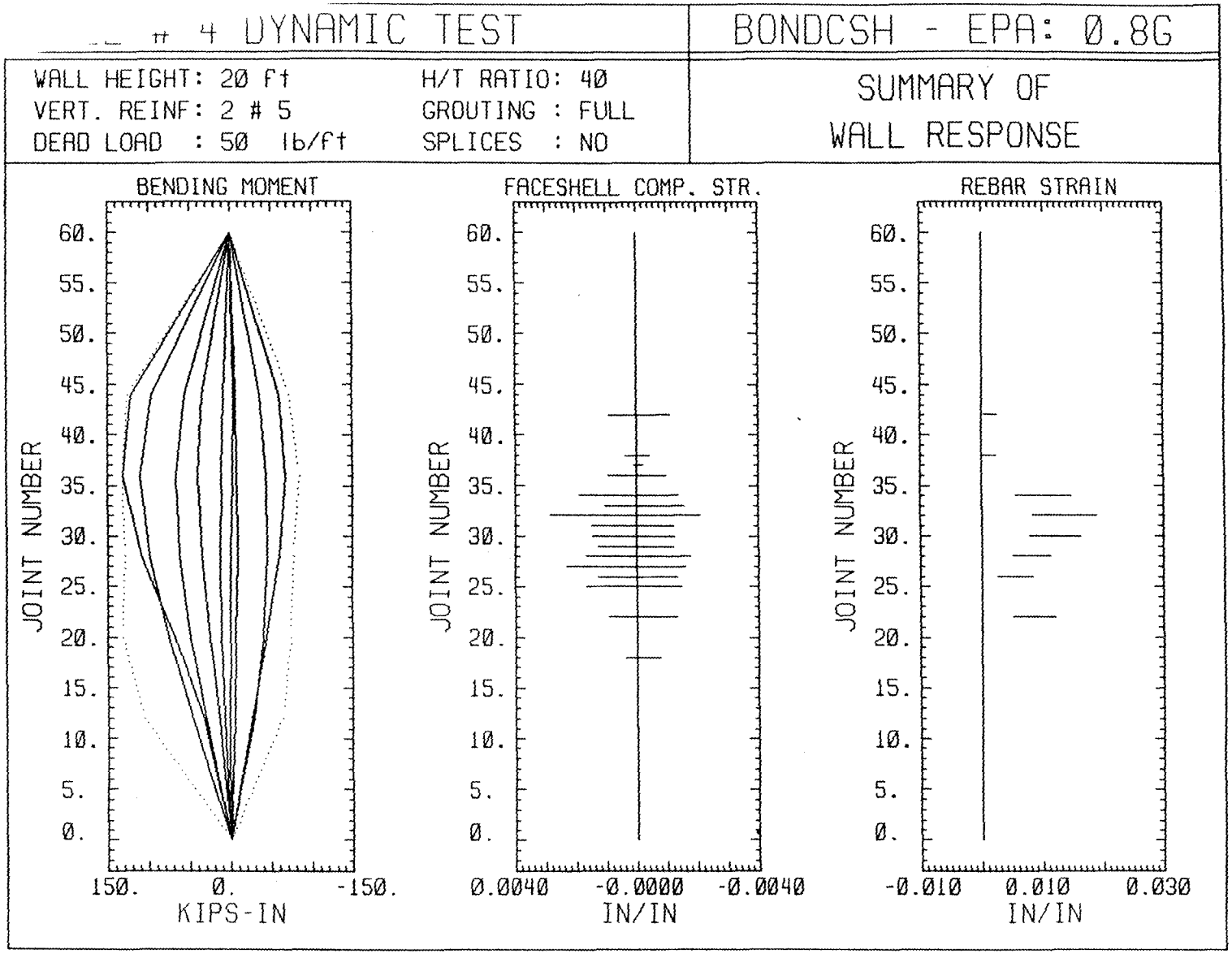

WALL # 4 DYNAMIC TEST
BONDCV2 - EPA: 0.5G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.15
-0.00
-0.15
INCHES
-0.010
0.020
0.050
INCHES
6.0
0.0
-6.0
1.0E-3/IN

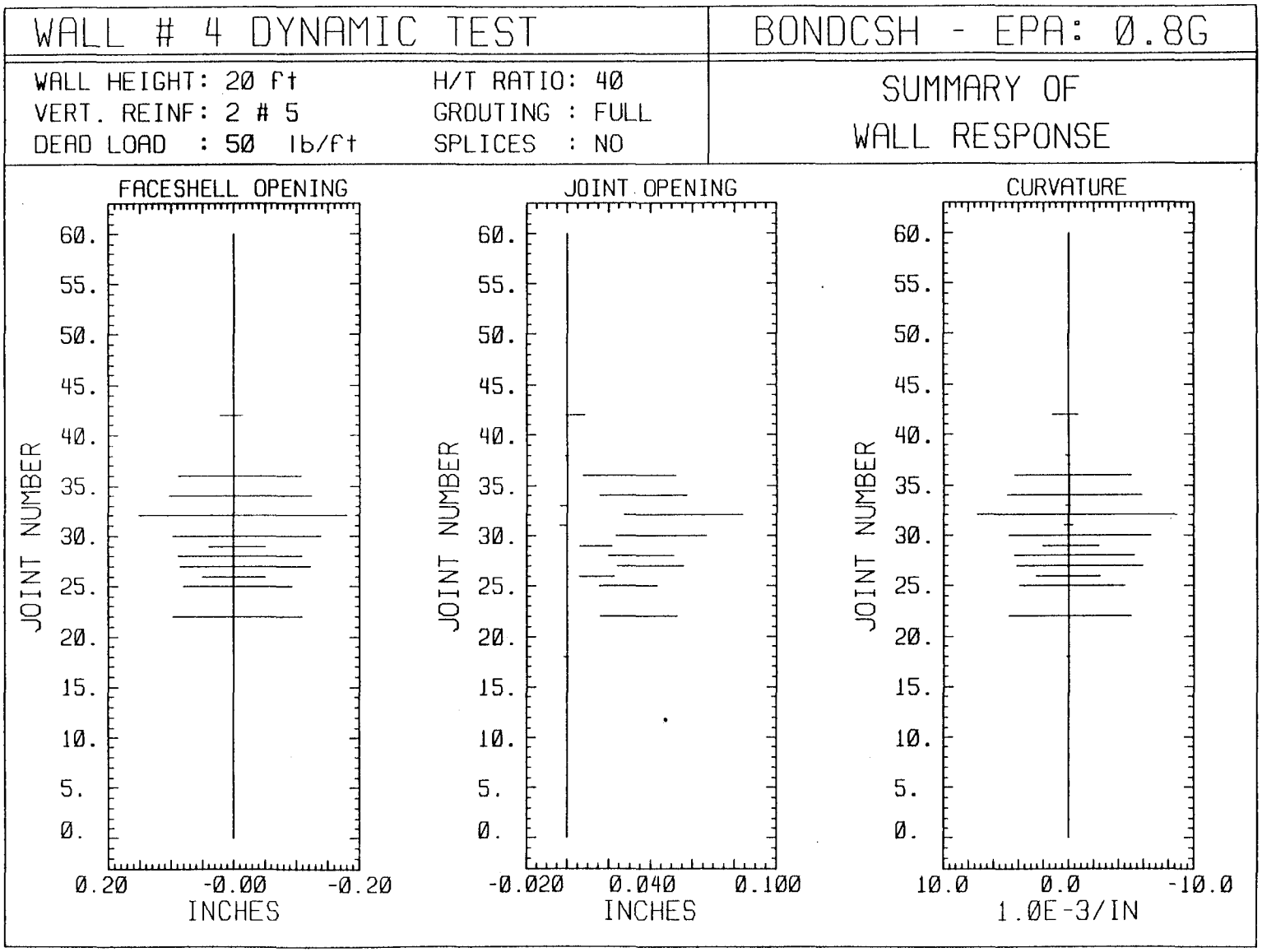

WALL # 4 DYNAMIC TEST
BONDCH - EPA: Ø.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
15.0
0.0
-15.0
INCHES
1.5
-1.5
G's

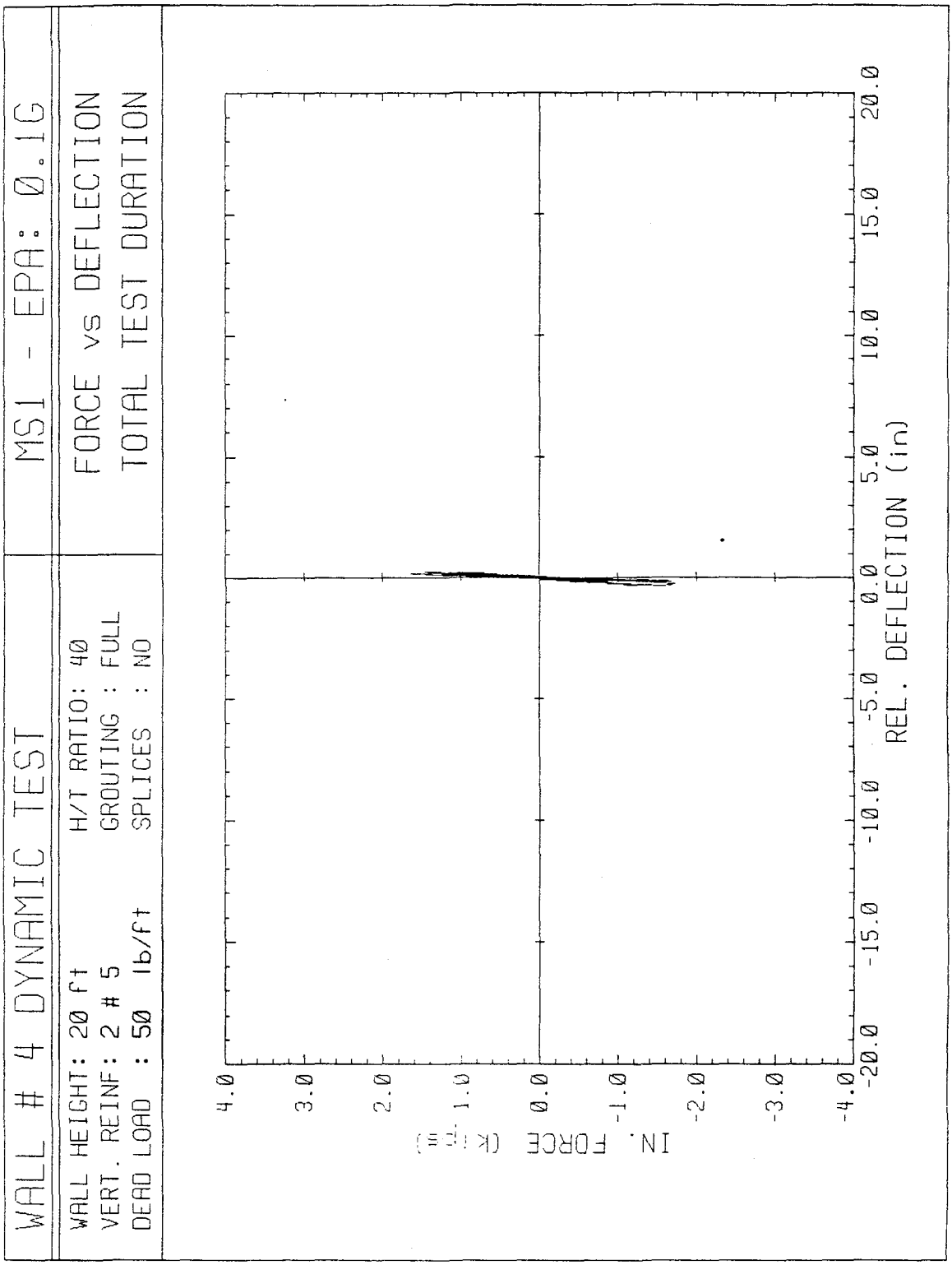

WALL # 4 DYNAMIC TEST
BONDCH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
200.
0.
-200.
KIPS-IN
FACESHELL COMP. STR.
0.0030
-0.0000
-0.0030
IN/IN
REBAR STRAIN
-0.005
0.005
0.020
IN/IN


WALL # 4 DYNAMIC TEST
BONDCH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.15
-0.00
-0.15
-0.020
0.020
0.080
8.0
0.0
-8.0
INCHES
INCHES
1.0E-3/IN

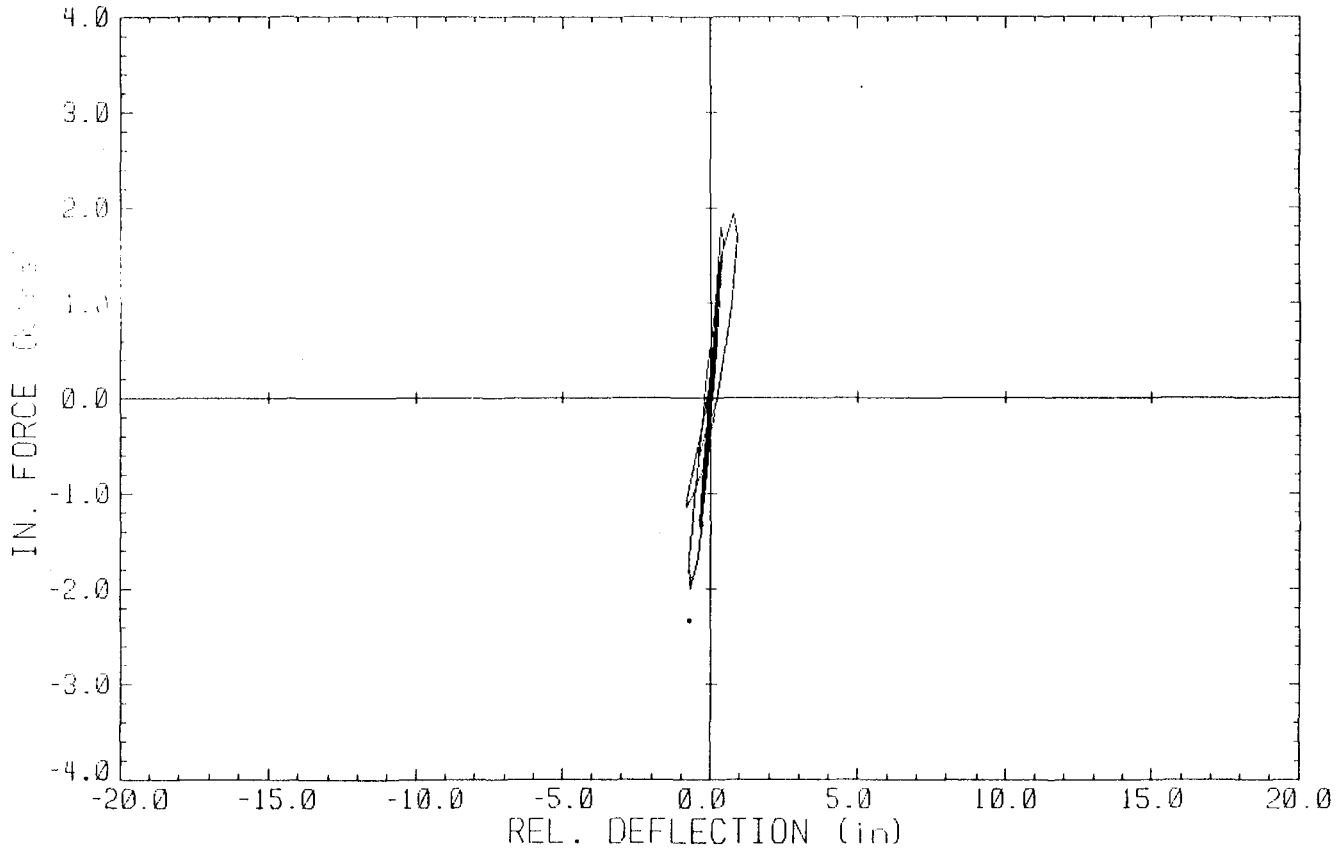

WALL # 4 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
20.0
0.0
-20.0
INCHES
3.0
-3.0
G's

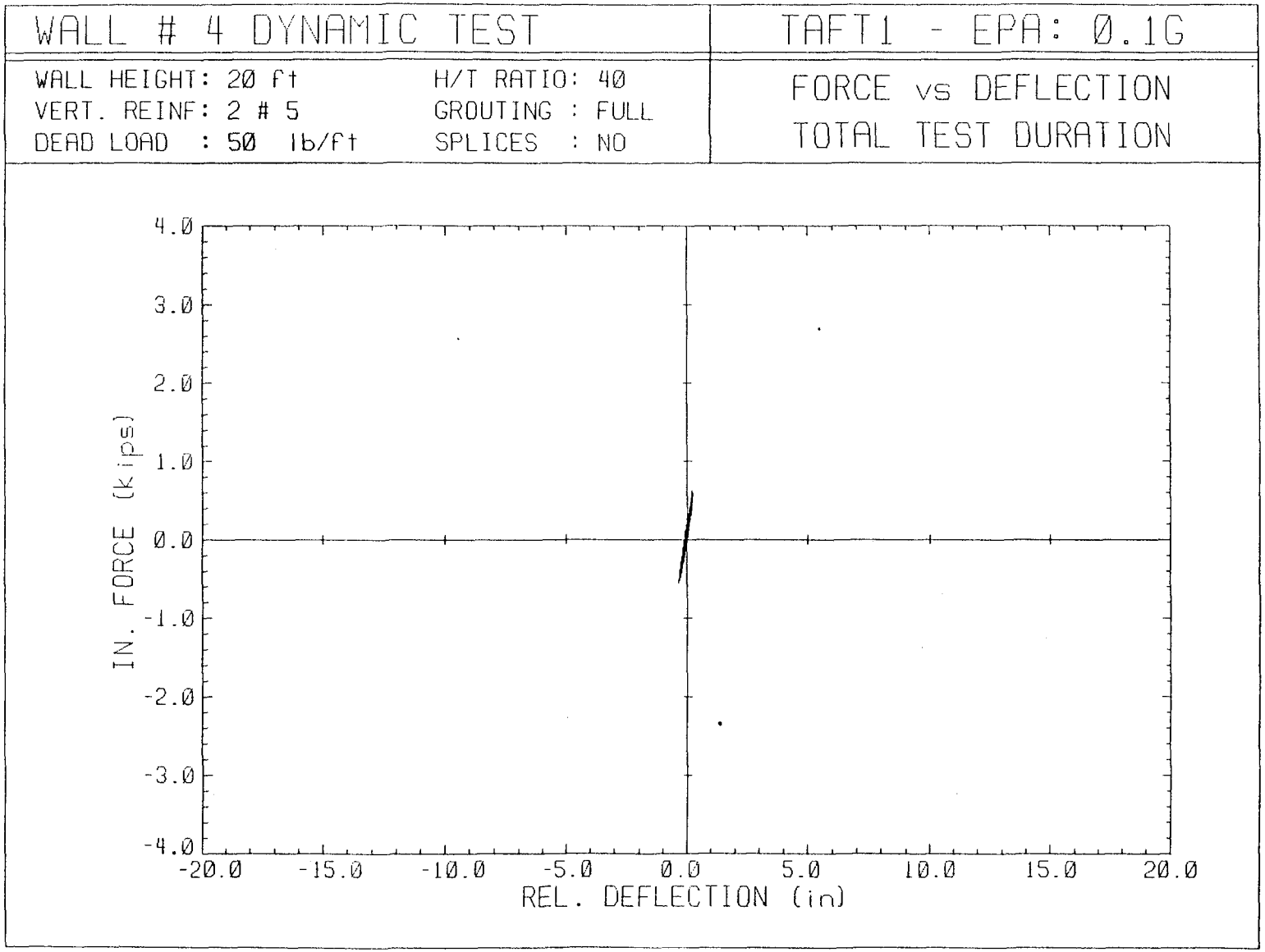

# 4 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
150.
0.
-150.
KIPS-IN
FACESHELL COMP. STR.
0.0040
-0.0000
-0.0040
IN/IN
REBAR STRAIN
-0.010
0.010
0.030
IN/IN


WALL # 4 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
FACESHELL OPENING
JOINT OPENING
CURVATURE
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
0.20
-0.00
-0.20
INCHES
-0.020
0.040
0.100
INCHES
10.0
0.0
-10.0
1.0E-3/IN

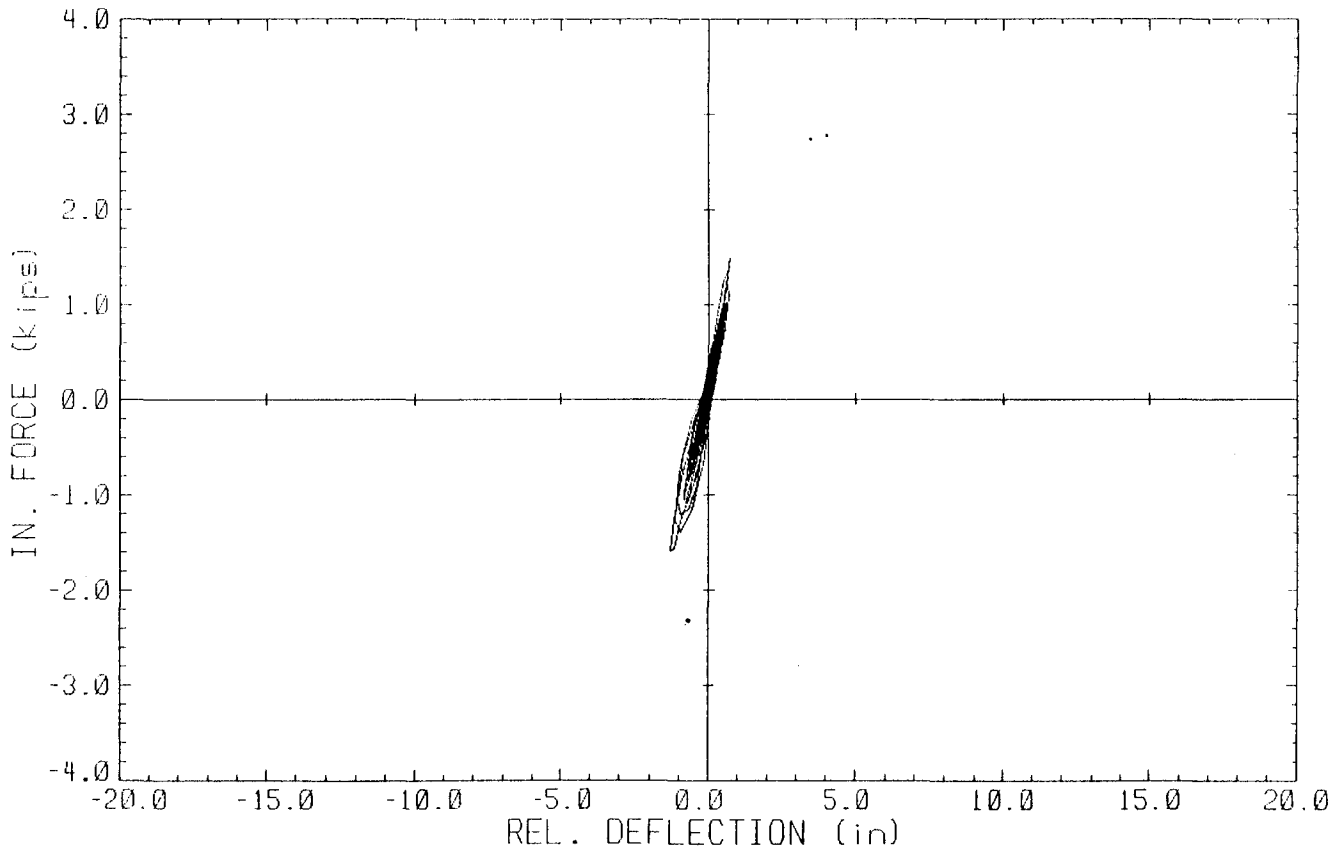

WALL # 4 DYNAMIC TEST
MS1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (Kips)
REL. DEFLECTION (in)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0

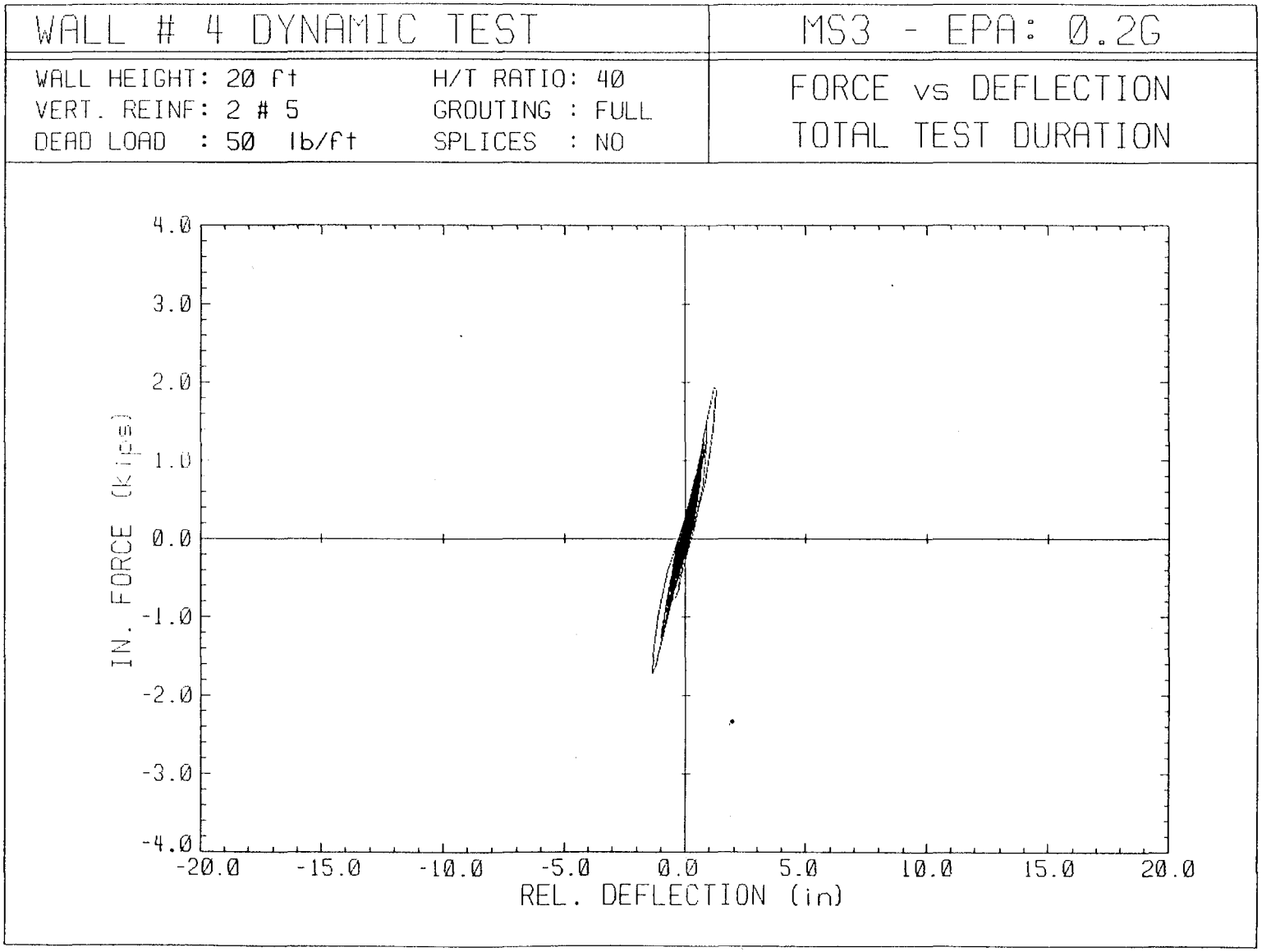
| WALL # 4 DYNAMIC TEST | | MS2 - EPA: 0.1G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | FORCE vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 50 lb/ft | SPLICES : NO | |

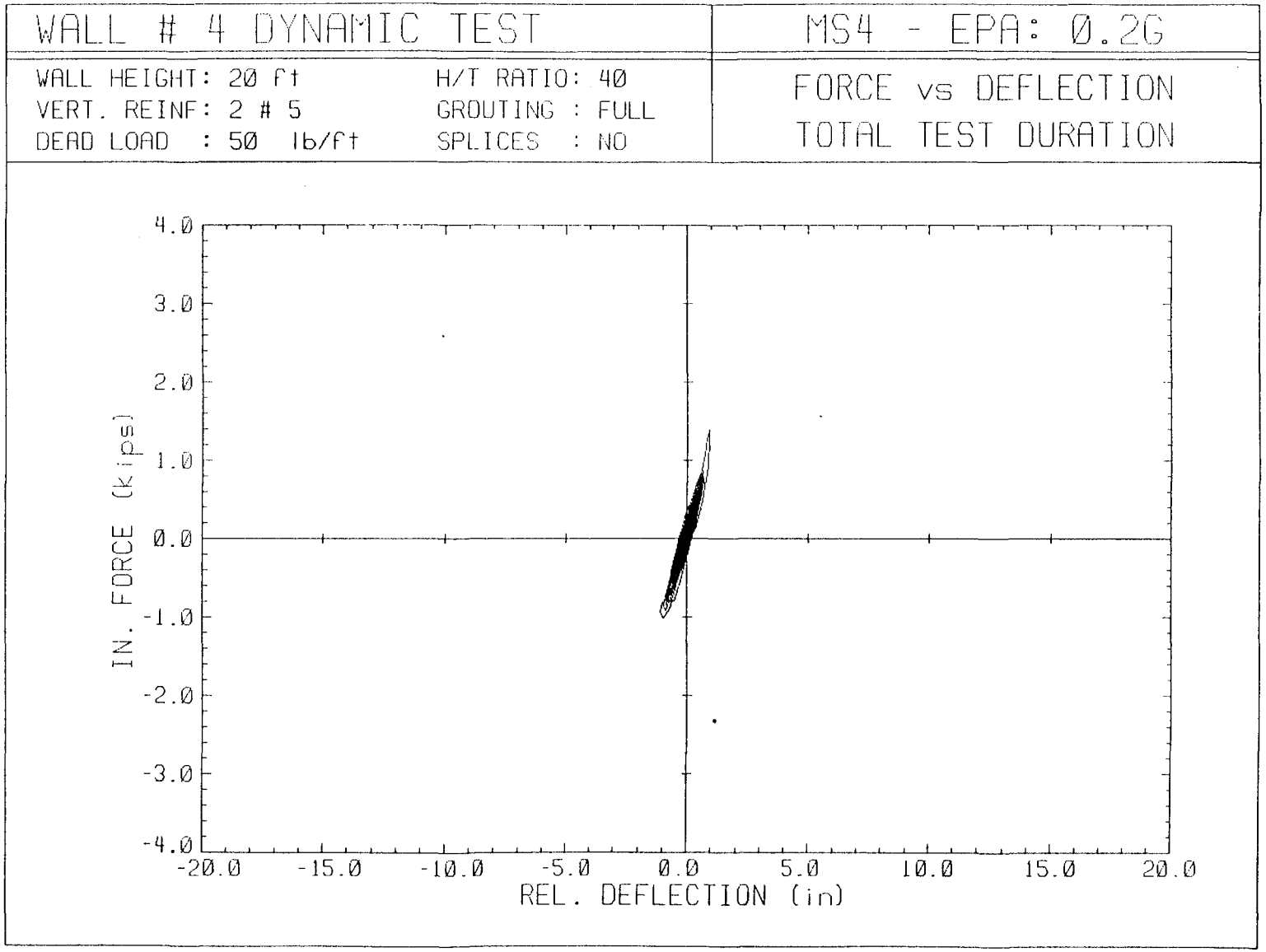


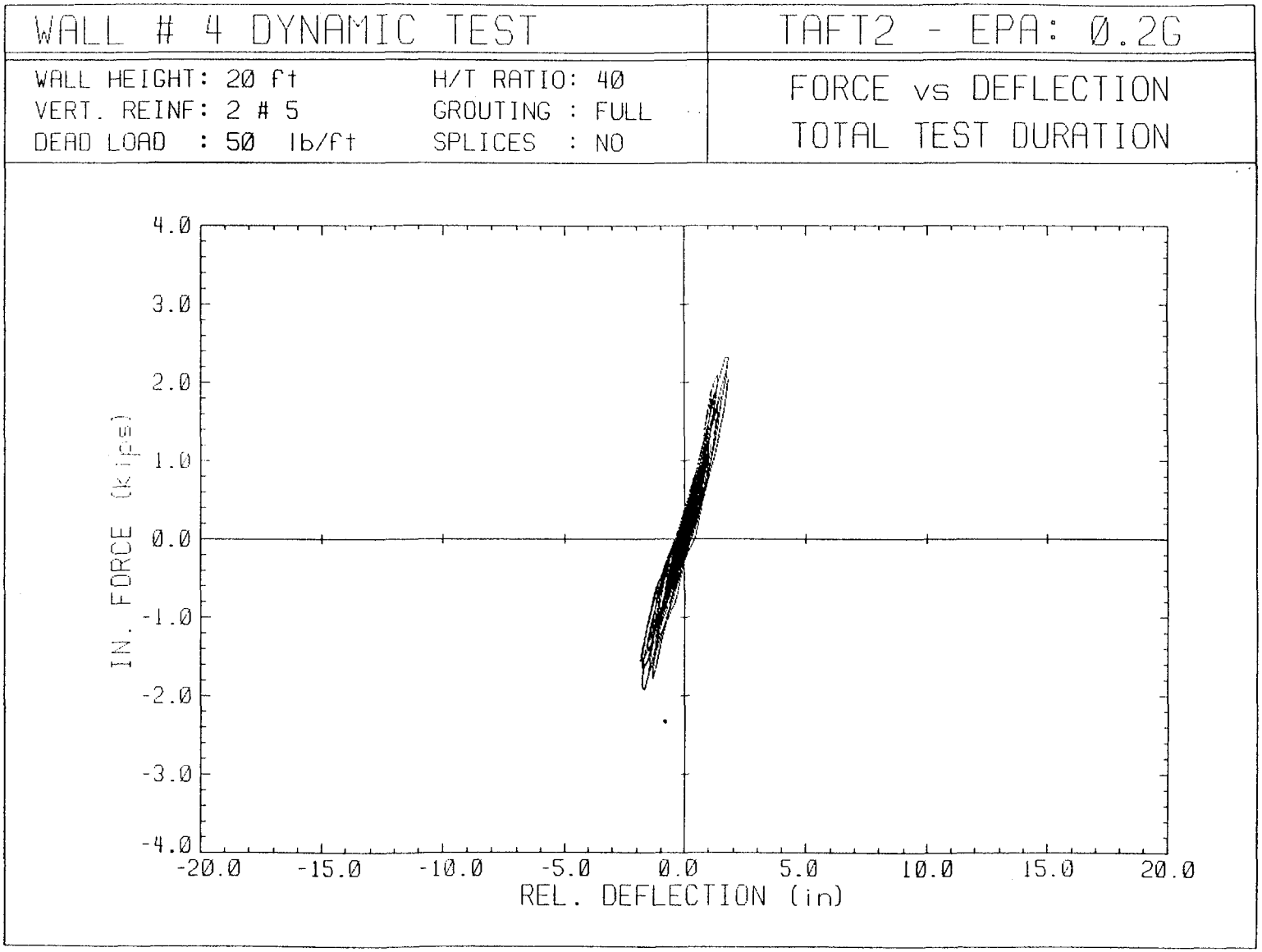

WALL # 4 DYNAMIC TEST
TAFT1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
IN. FORCE (kips)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

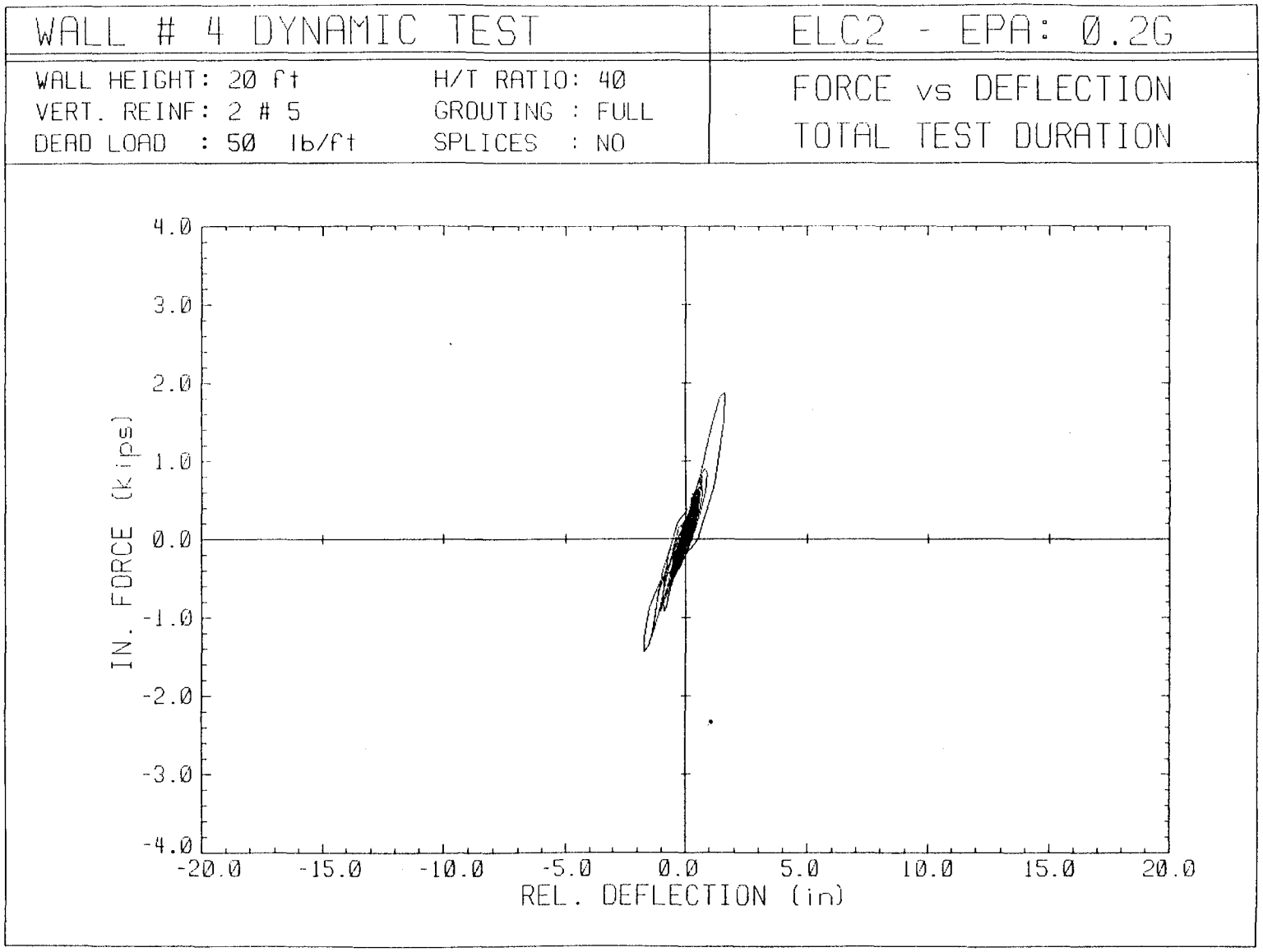
| WALL # 4 DYNAMIC TEST | | ELC1 - EPA: 0.1G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | FORCE vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 50 lb/ft | SPLICES : NO | |

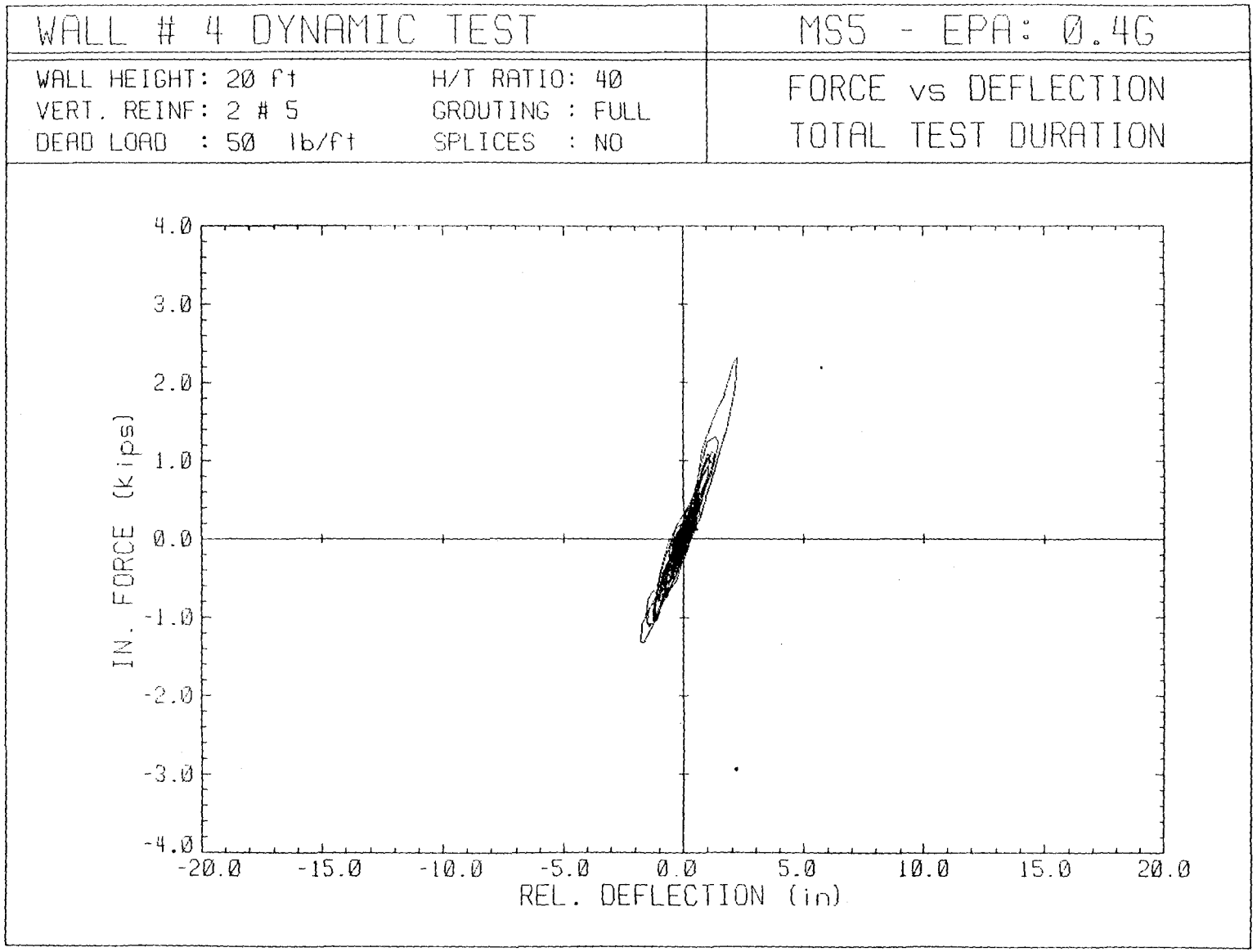


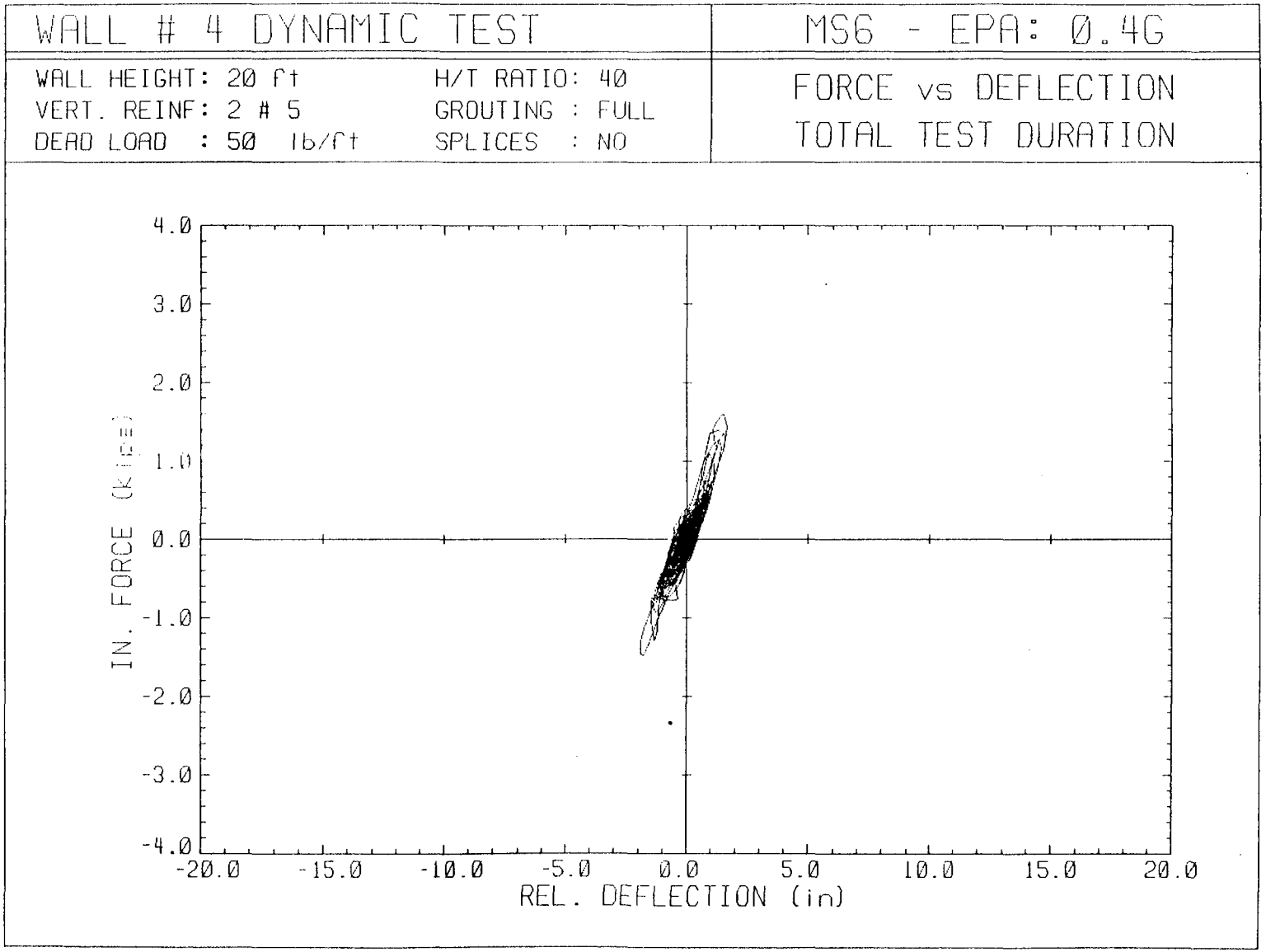

WALL # 4 DYNAMIC TEST
MS3 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

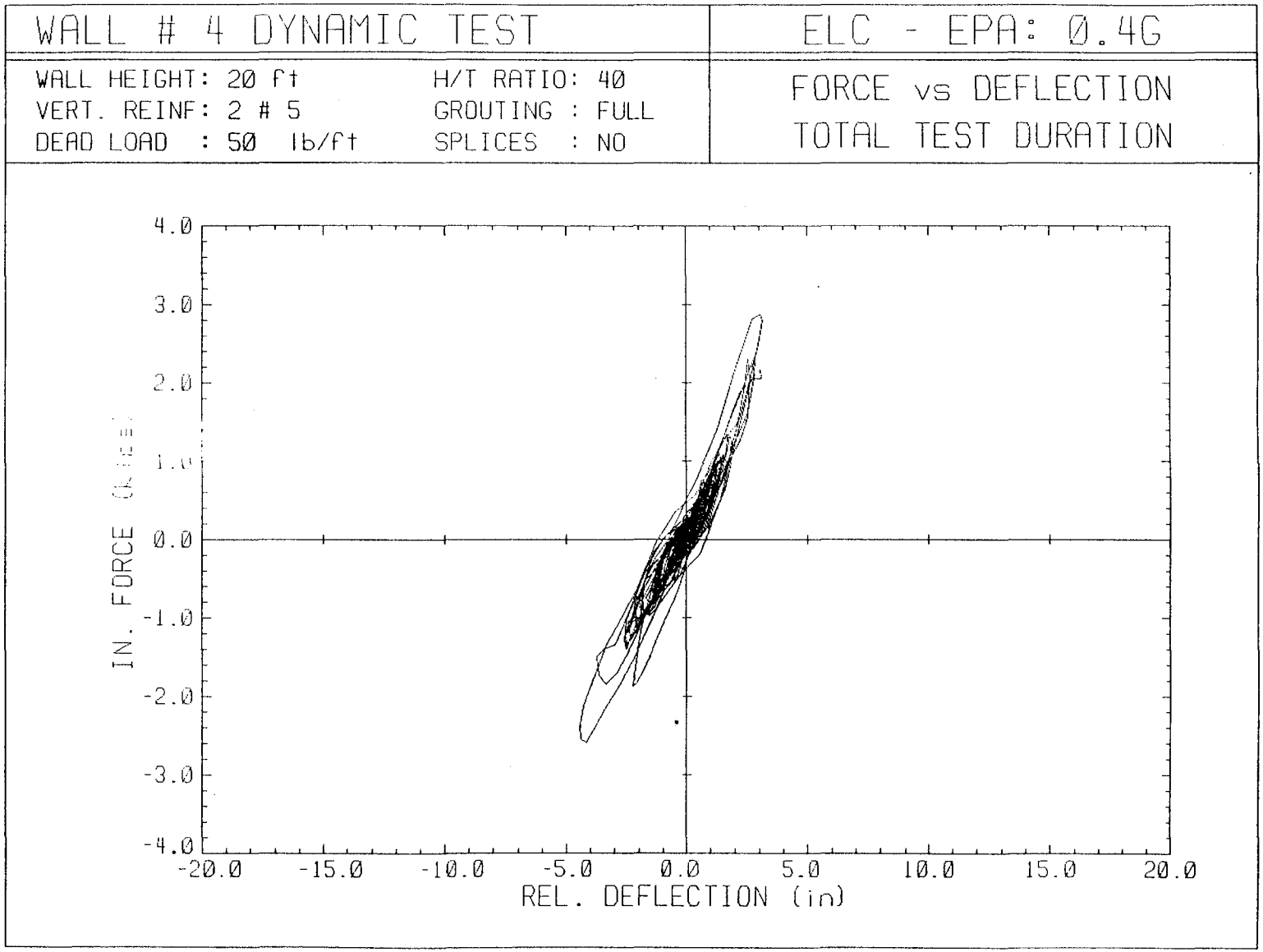

WALL # 4 DYNAMIC TEST
MS4 - EPA: 0.2G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
IN. FORCE (kips)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

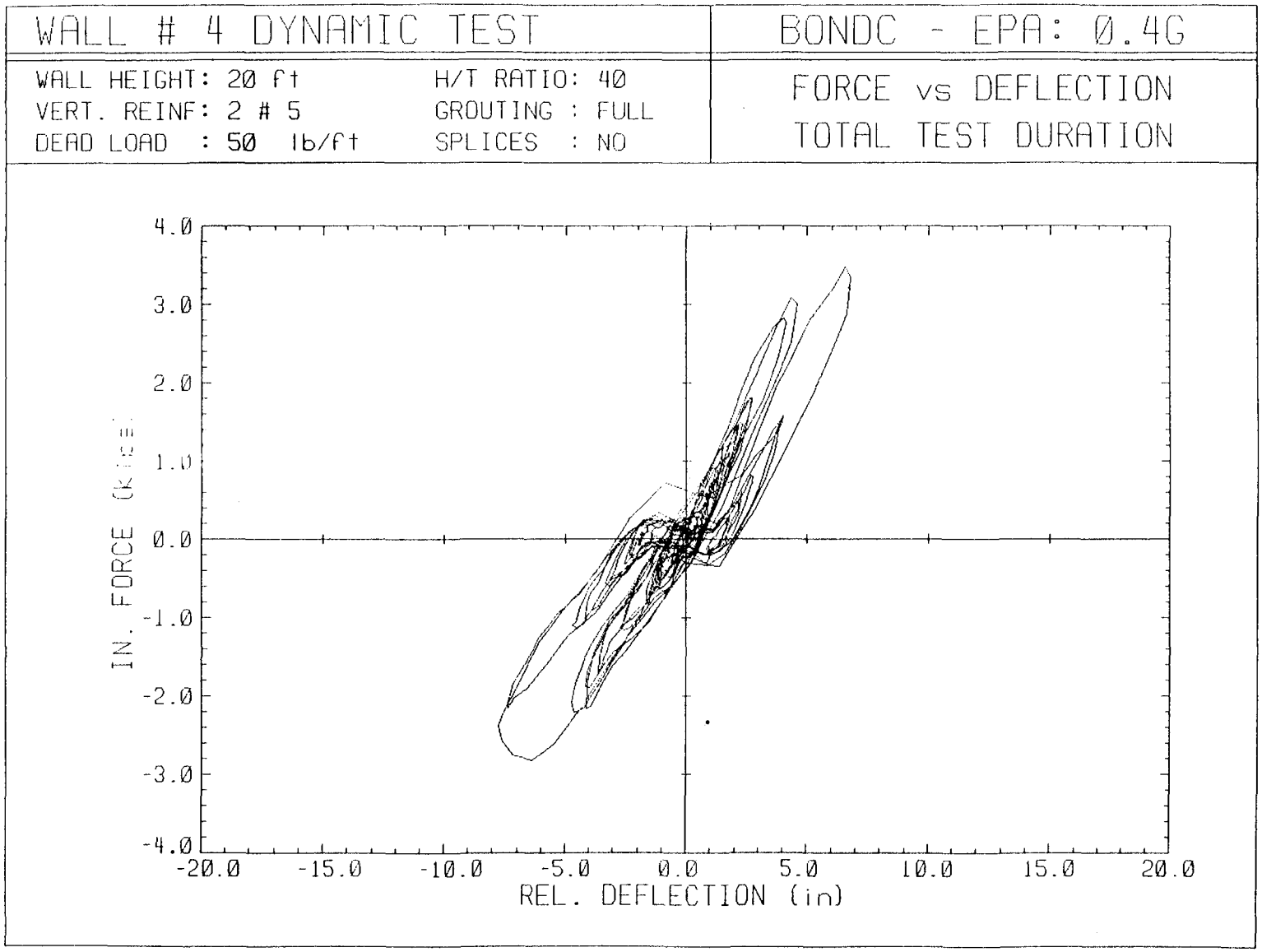

WALL # 4 DYNAMIC TEST
TAFT2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

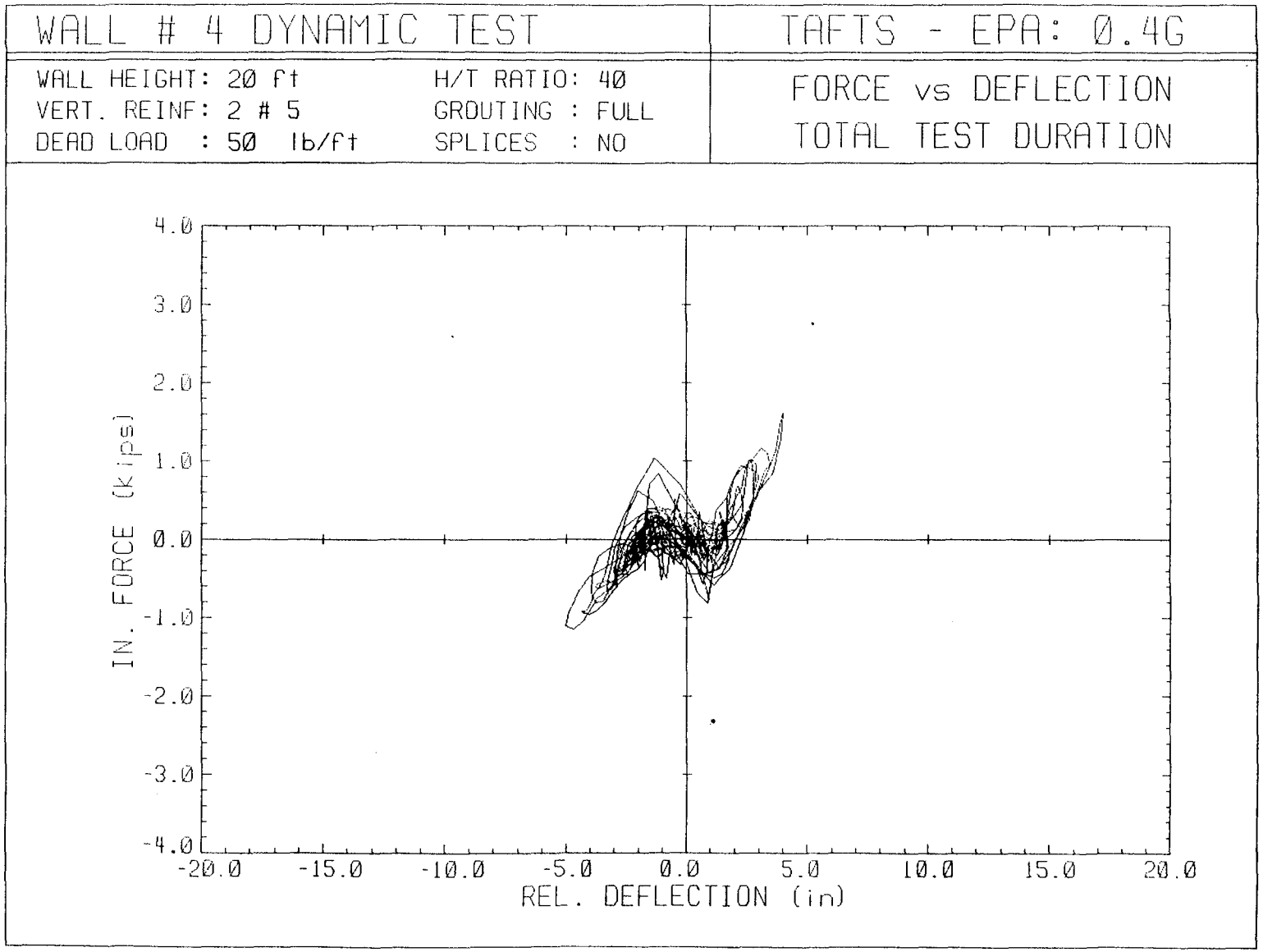

WALL # 4 DYNAMIC TEST
ELC2 - EPA: 0.2G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
REL. DEFLECTION (in)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0

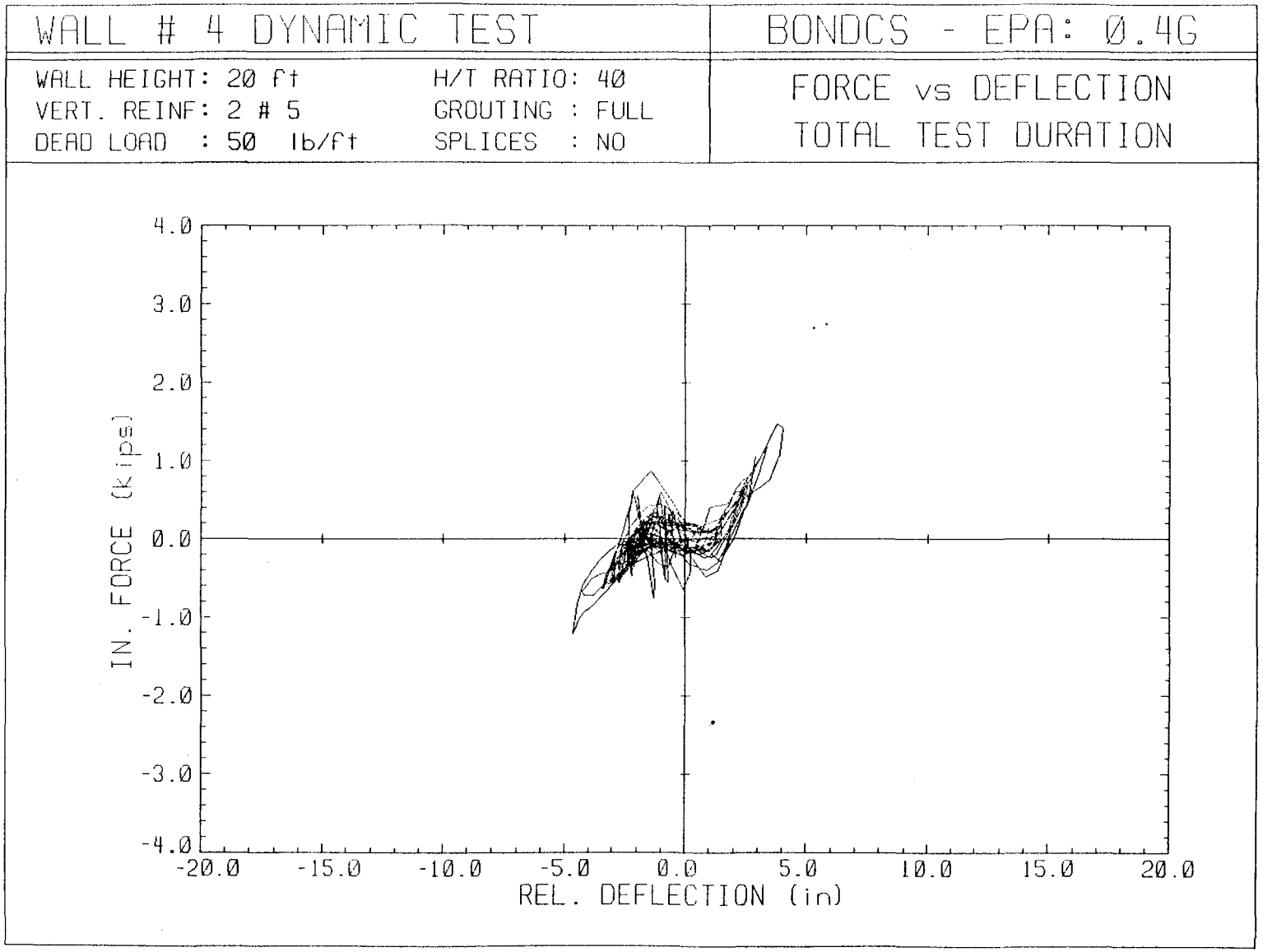

WALL # 4 DYNAMIC TEST
MS5 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

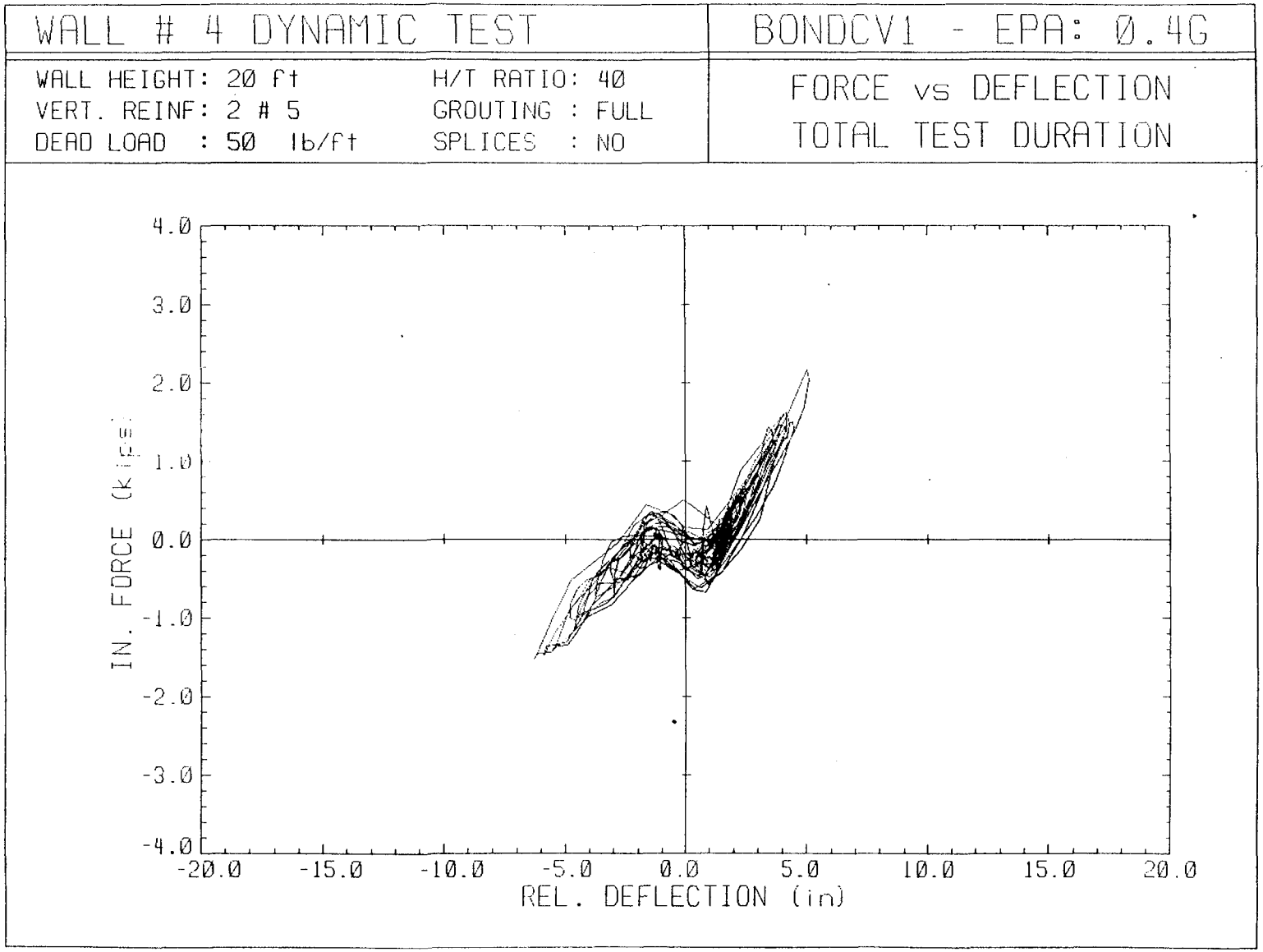

WALL # 4 DYNAMIC TEST
MS6 - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
REL. DEFLECTION (in)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0

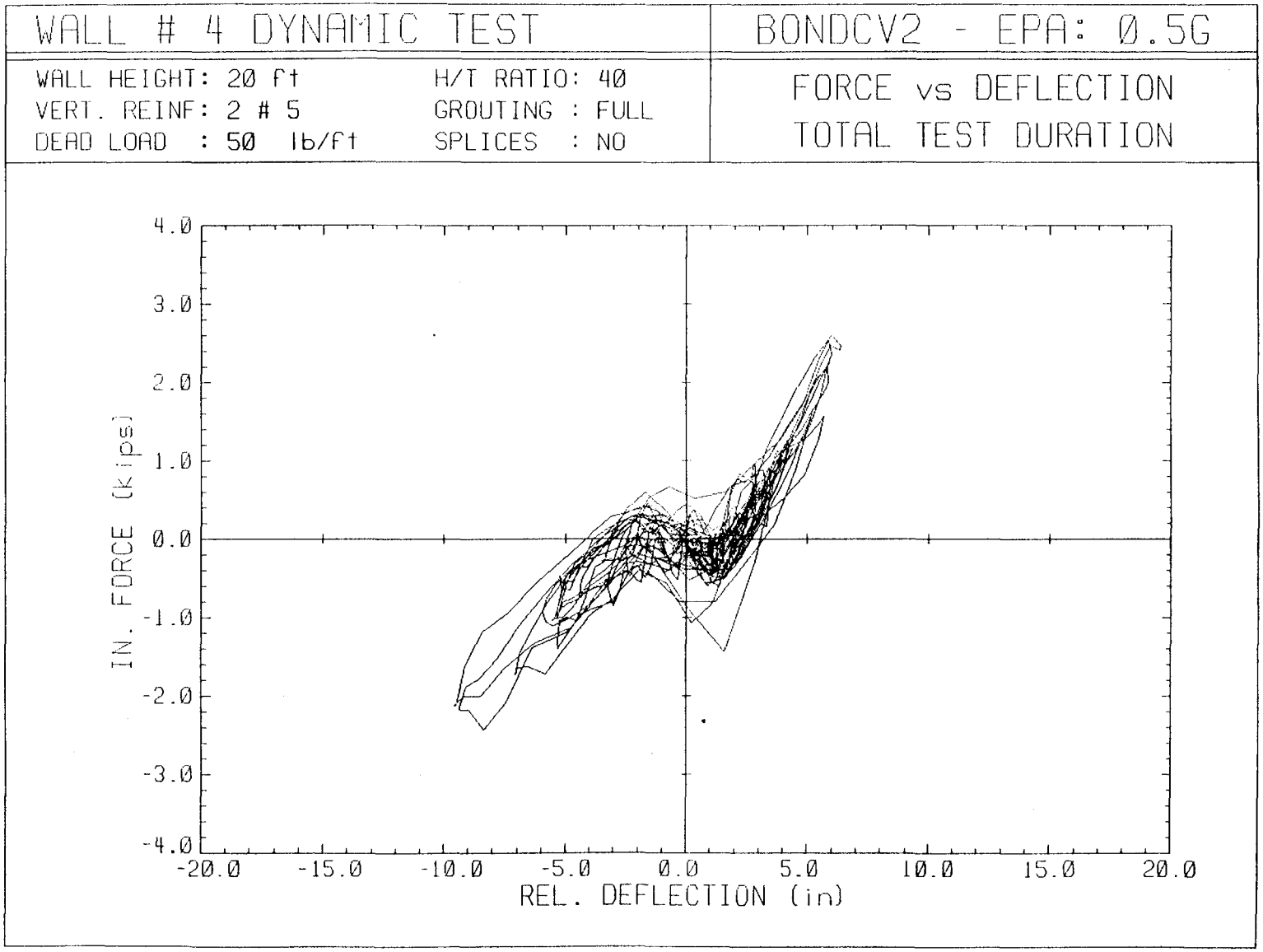

WALL # 4 DYNAMIC TEST
ELC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
REL. DEFLECTION (in)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0

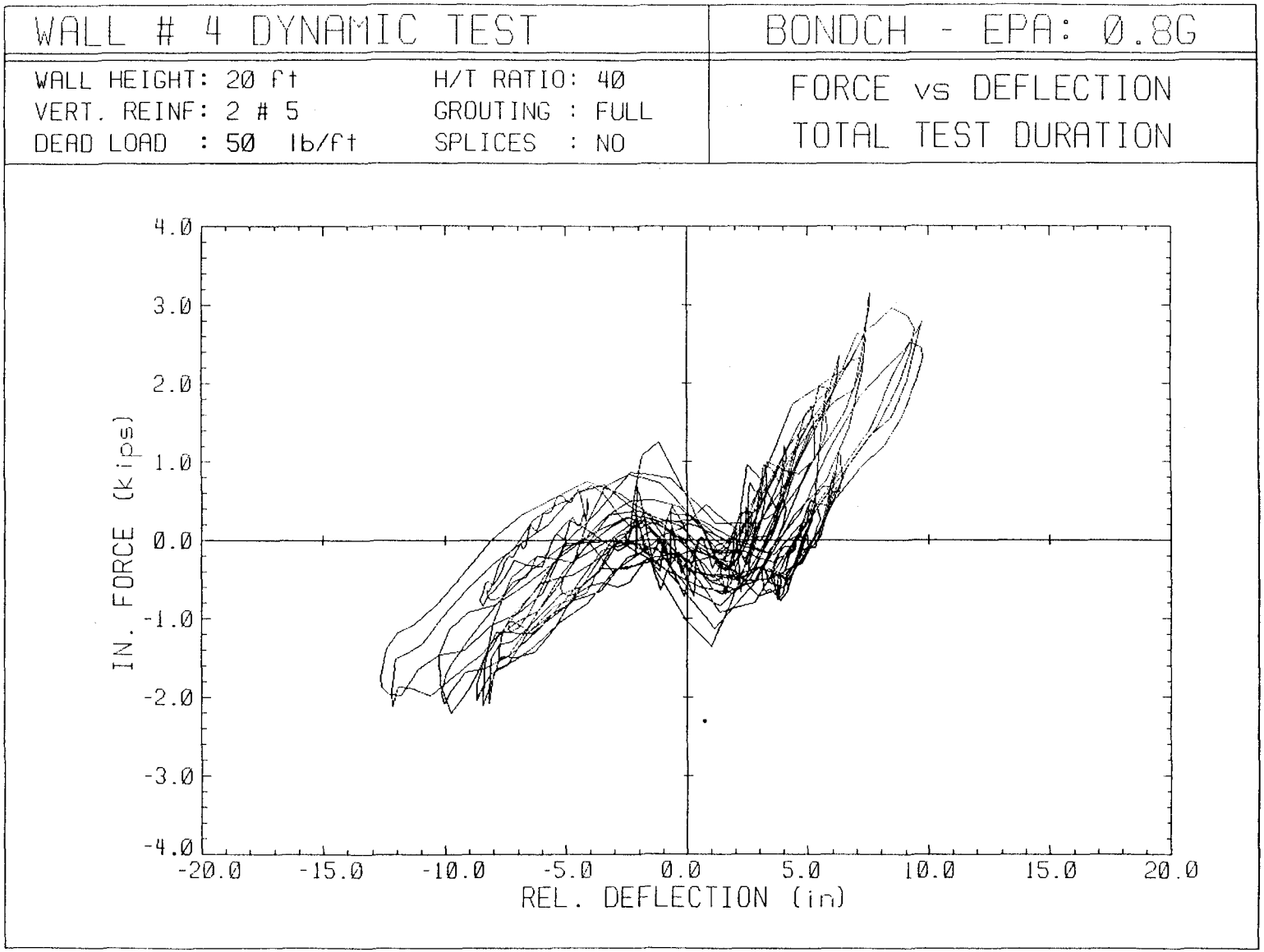

WALL # 4 DYNAMIC TEST
BONDC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
REL. DEFLECTION (in)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0

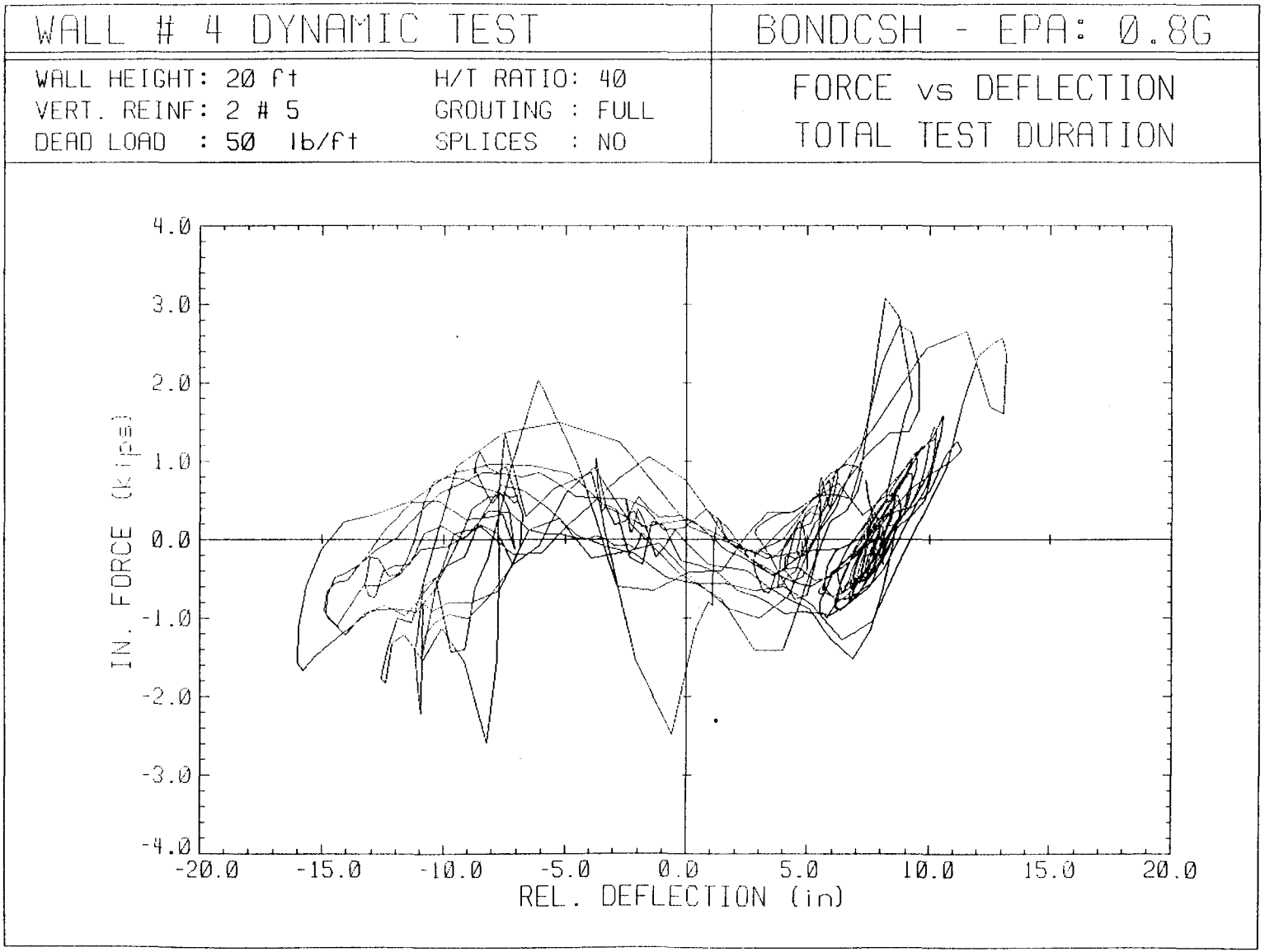

WALL # 4 DYNAMIC TEST
TAFTS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

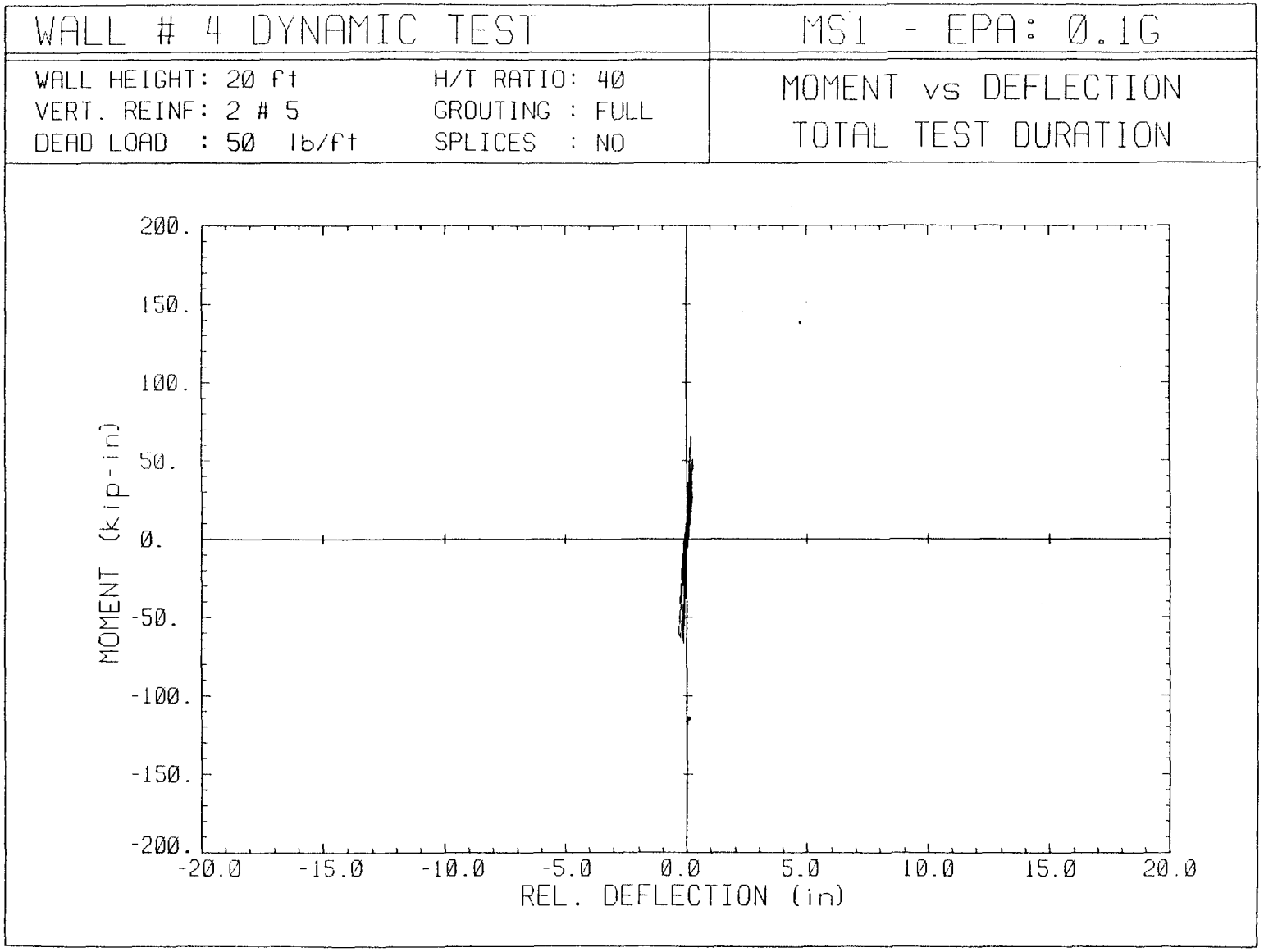

WALL # 4 DYNAMIC TEST
BONDCS - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

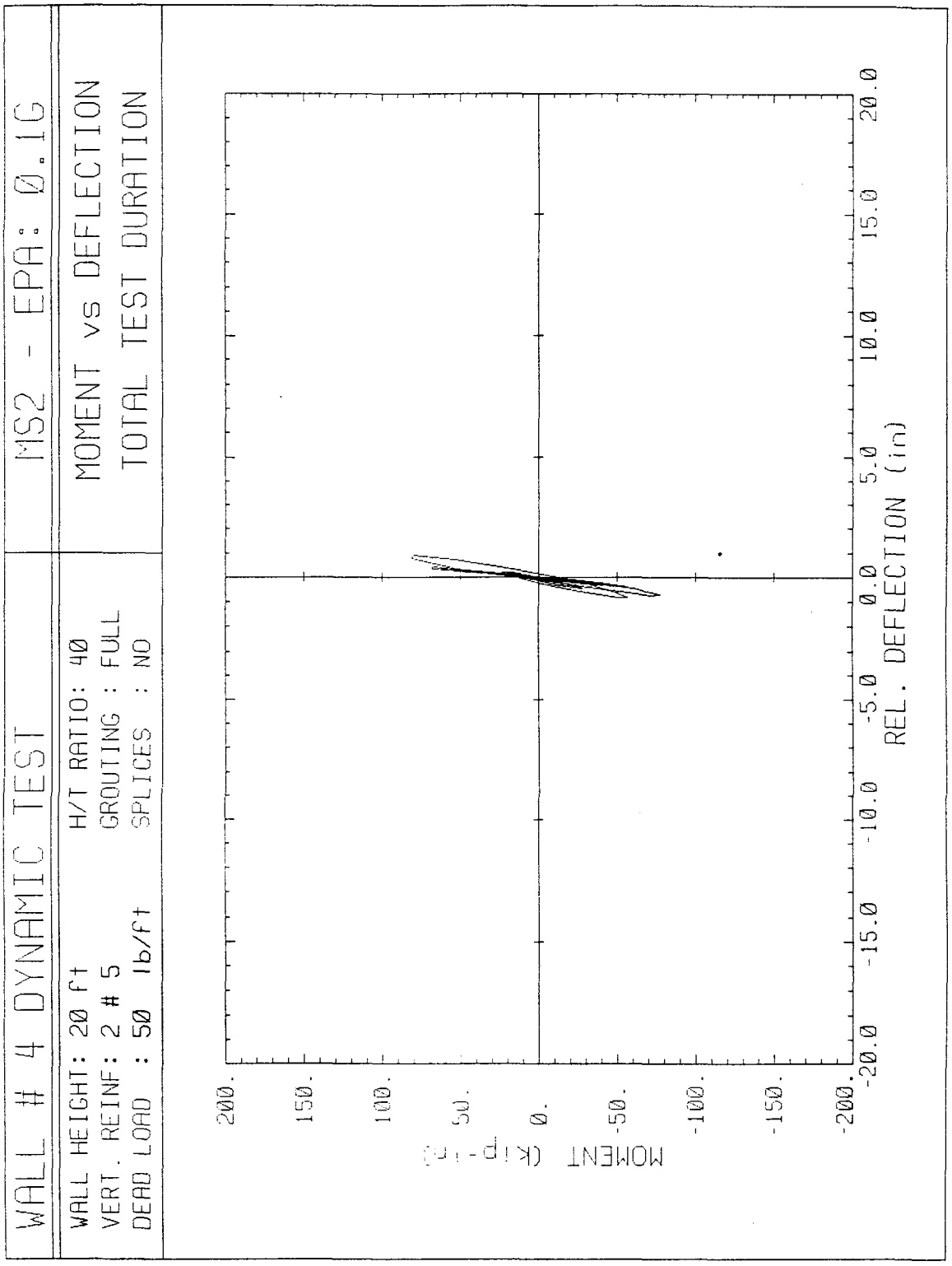

WALL # 4 DYNAMIC TEST
BONDCV1 - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

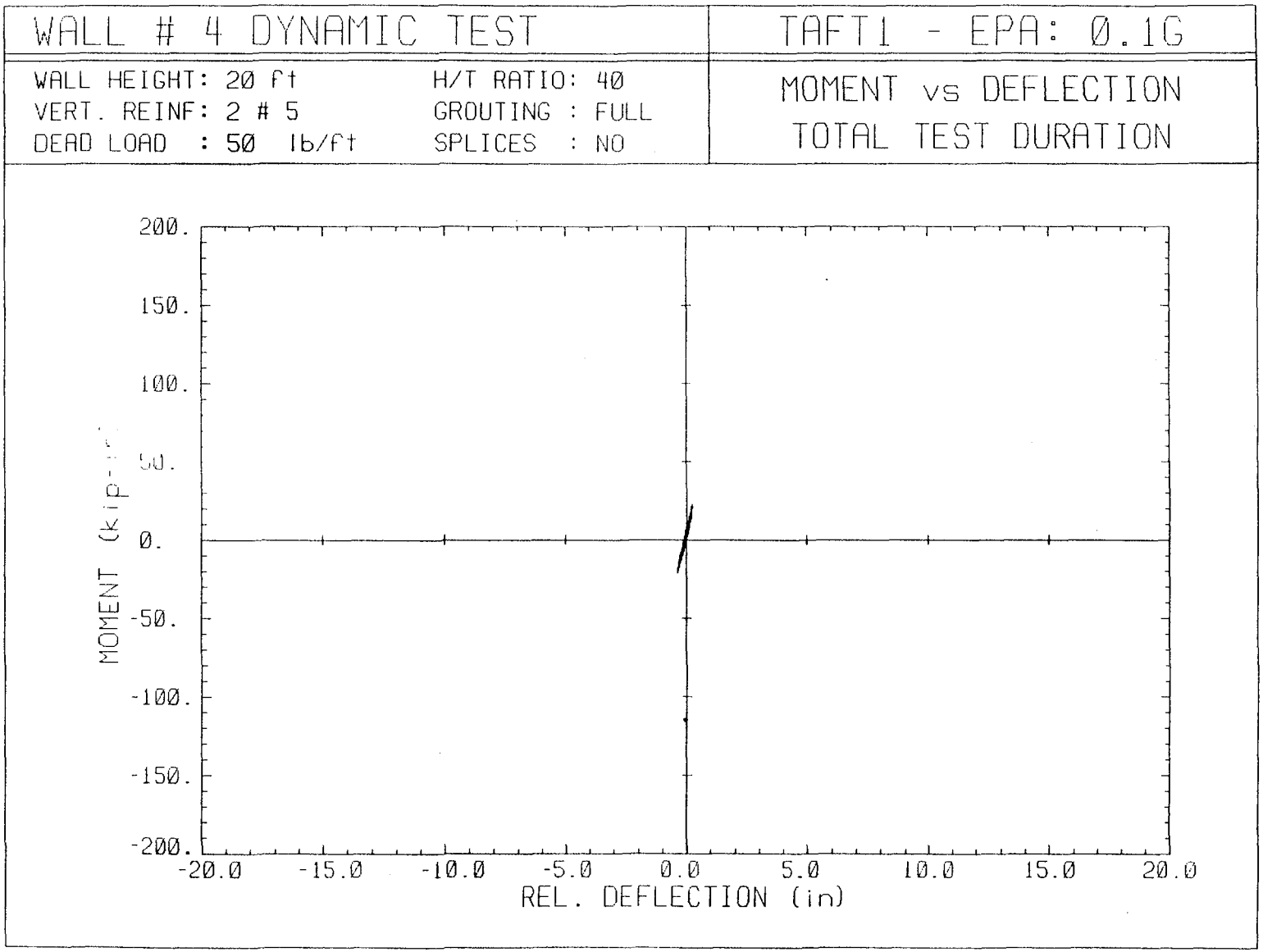

WALL # 4 DYNAMIC TEST
BONDCV2 - EPA: 0.5G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

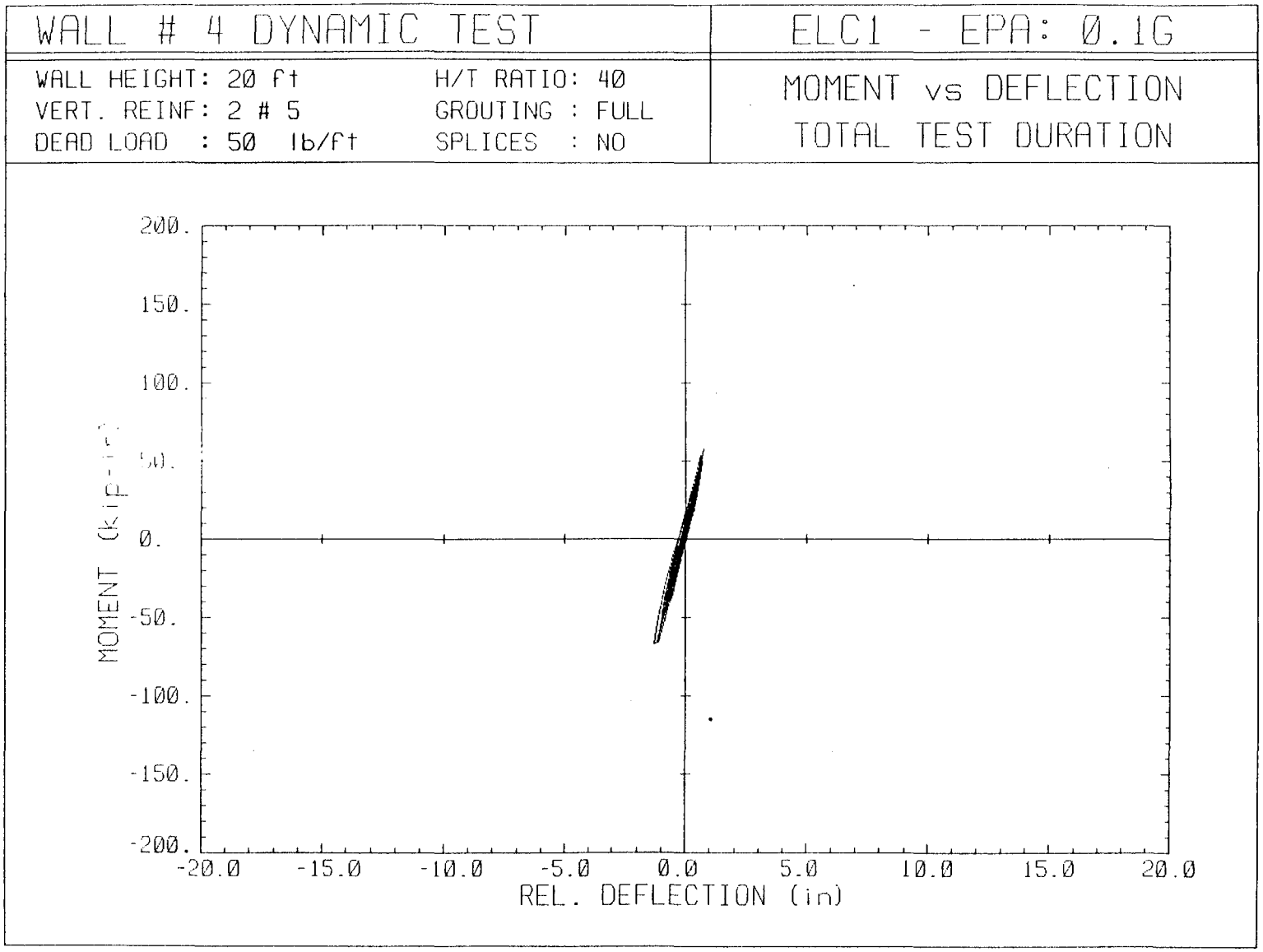

WALL # 4 DYNAMIC TEST
BONDCH - EPA: 0.8G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

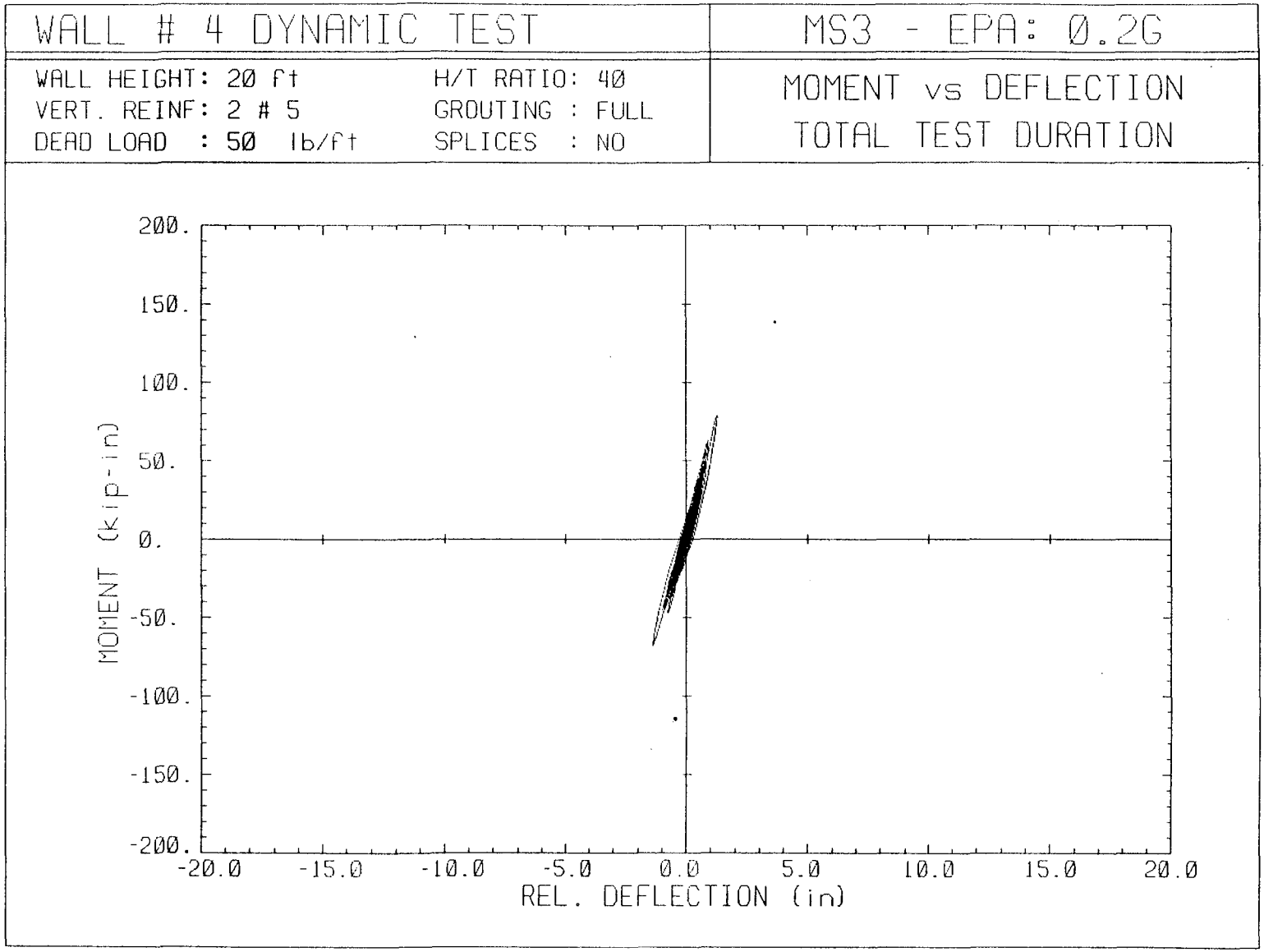

WALL # 4 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
REL. DEFLECTION (in)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0


WALL # 4 DYNAMIC TEST
MS1 - EPA: Ø.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

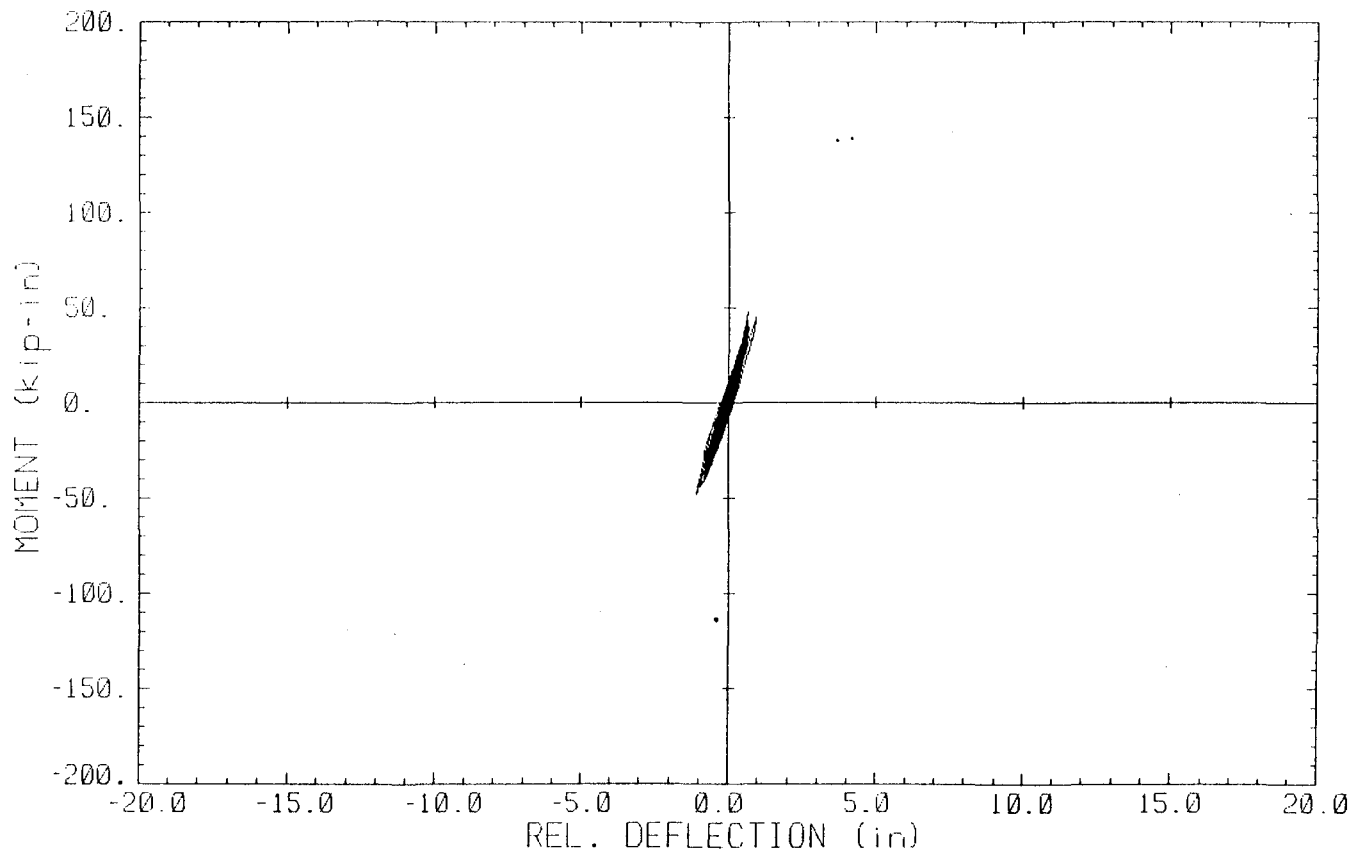

WALL # 4 DYNAMIC TEST
MS2 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (K ip-ft)
REL. DEFLECTION (in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0

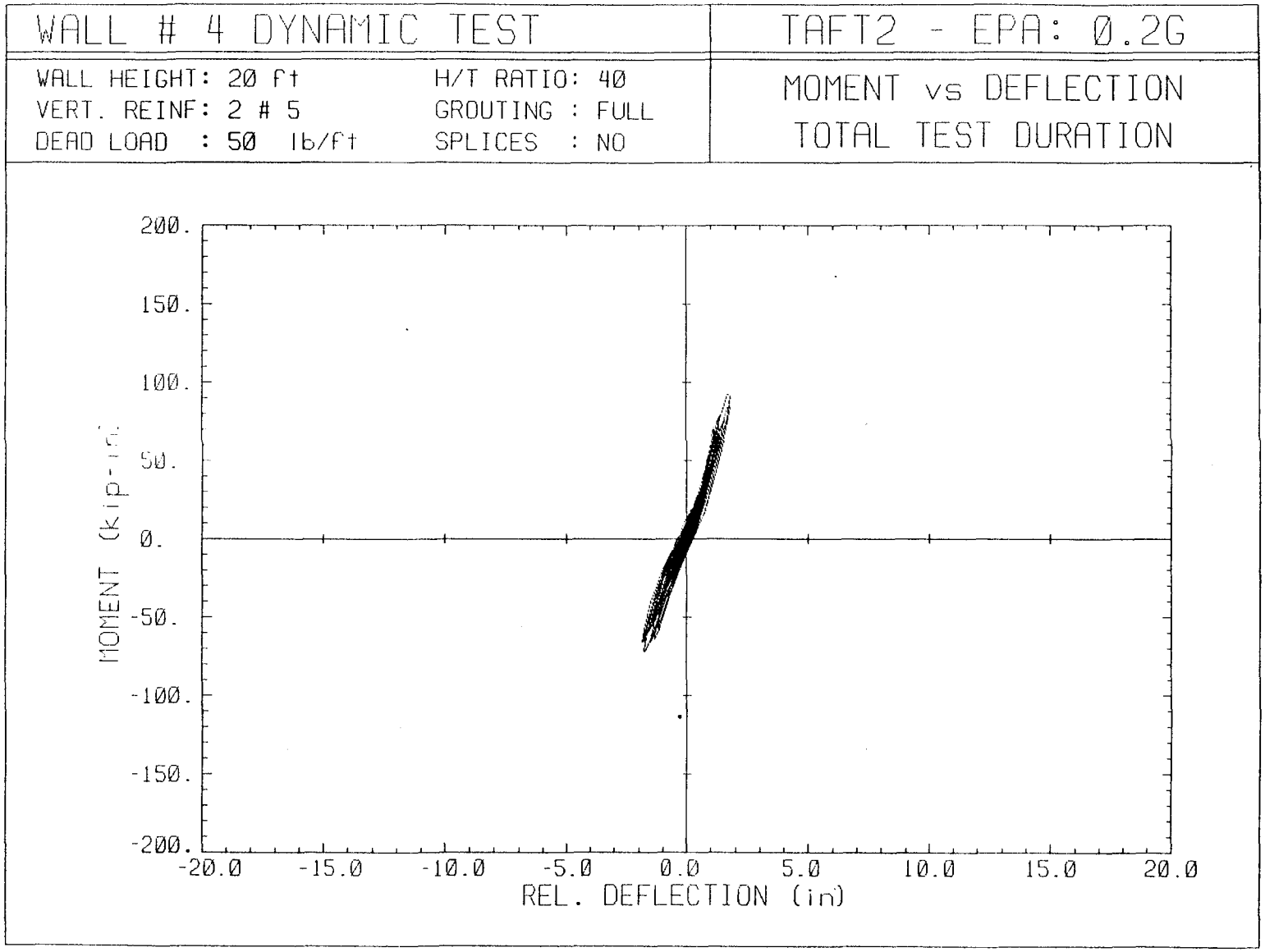

WALL # 4 DYNAMIC TEST
TAFT1 - EPA: 0.1G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

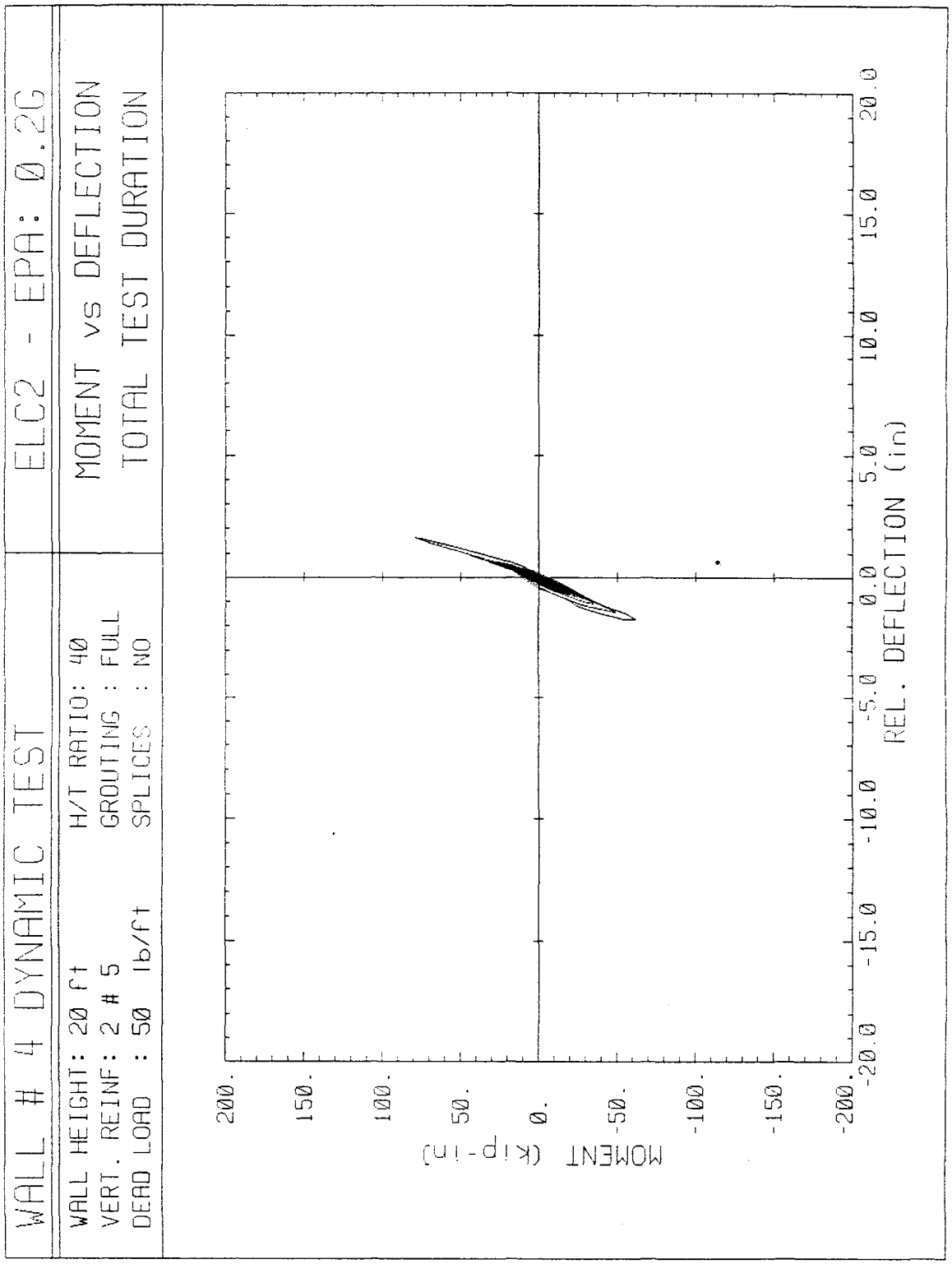

WALL # 4 DYNAMIC TEST
ELC1 - EPA: Ø.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
MOMENT (kip-ft)
-20.0
-15.0
-10.0
-5.0
Ø.Ø
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

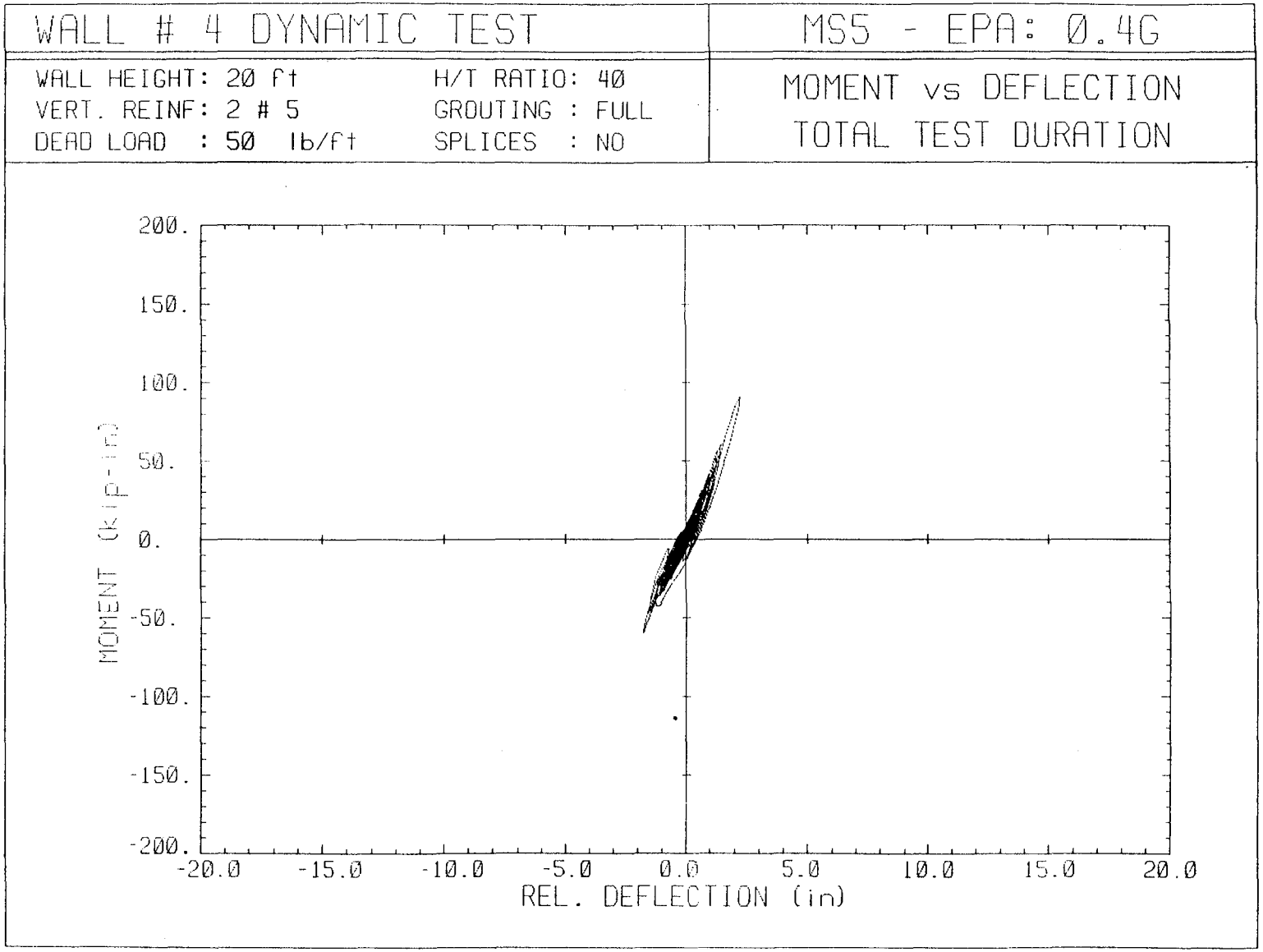

WALL # 4 DYNAMIC TEST
MS3 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

| WALL # 4 DYNAMIC TEST | | MS4 - EPA: 0.2G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 50 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | MOMENT vs DEFLECTION<br>TOTAL TEST DURATION |

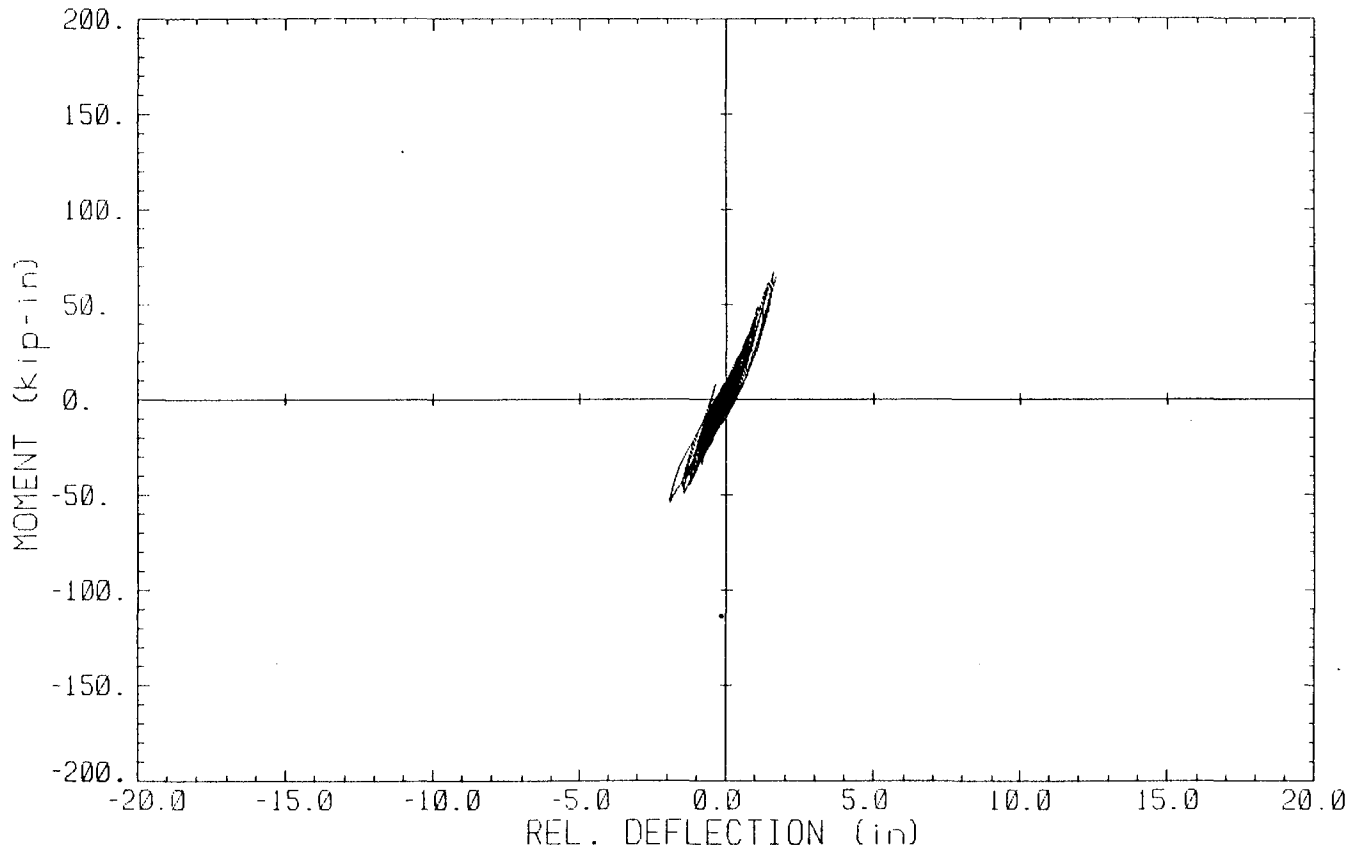


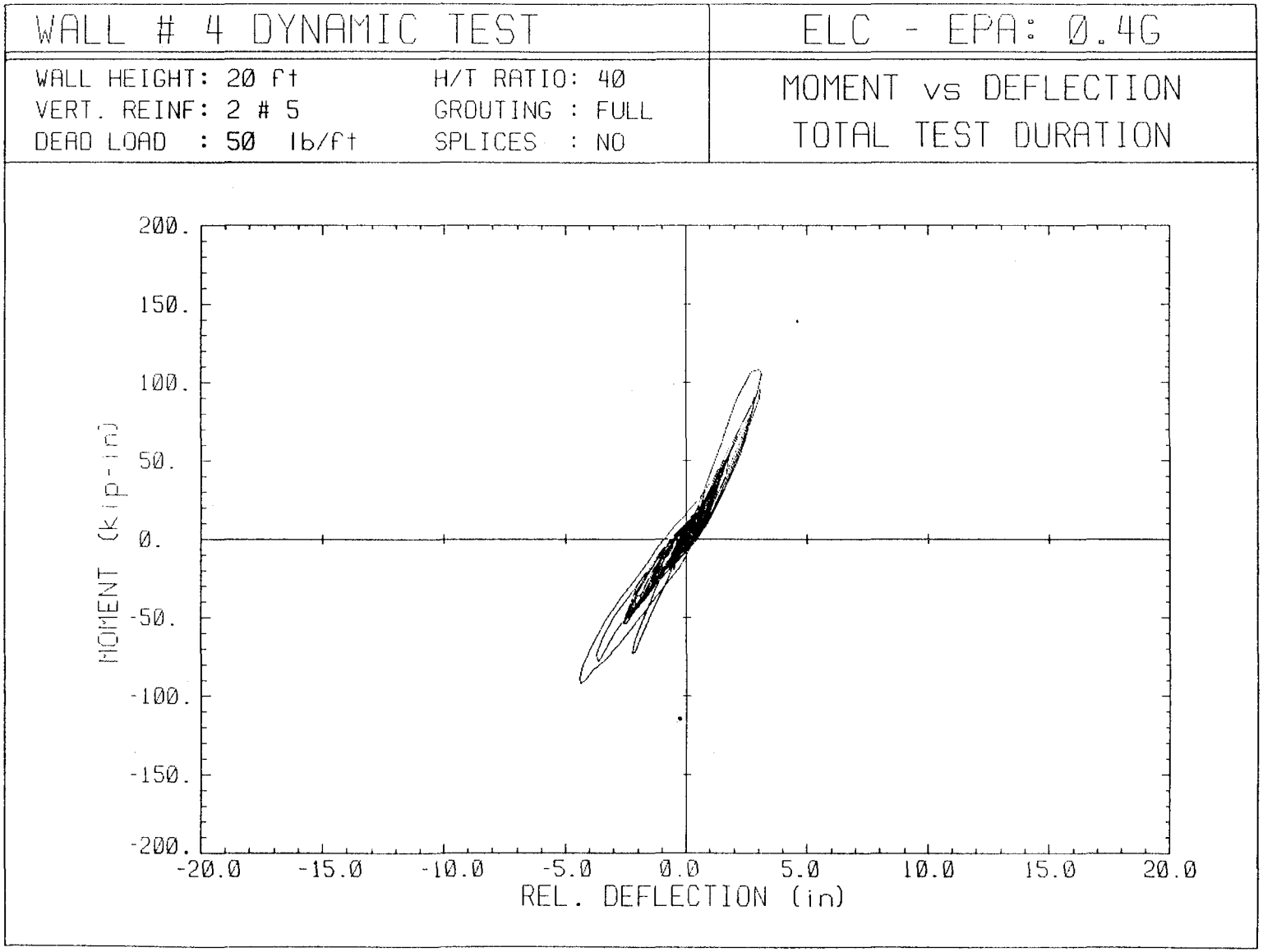

WALL # 4 DYNAMIC TEST
TAFT2 - EPA: 0.2G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

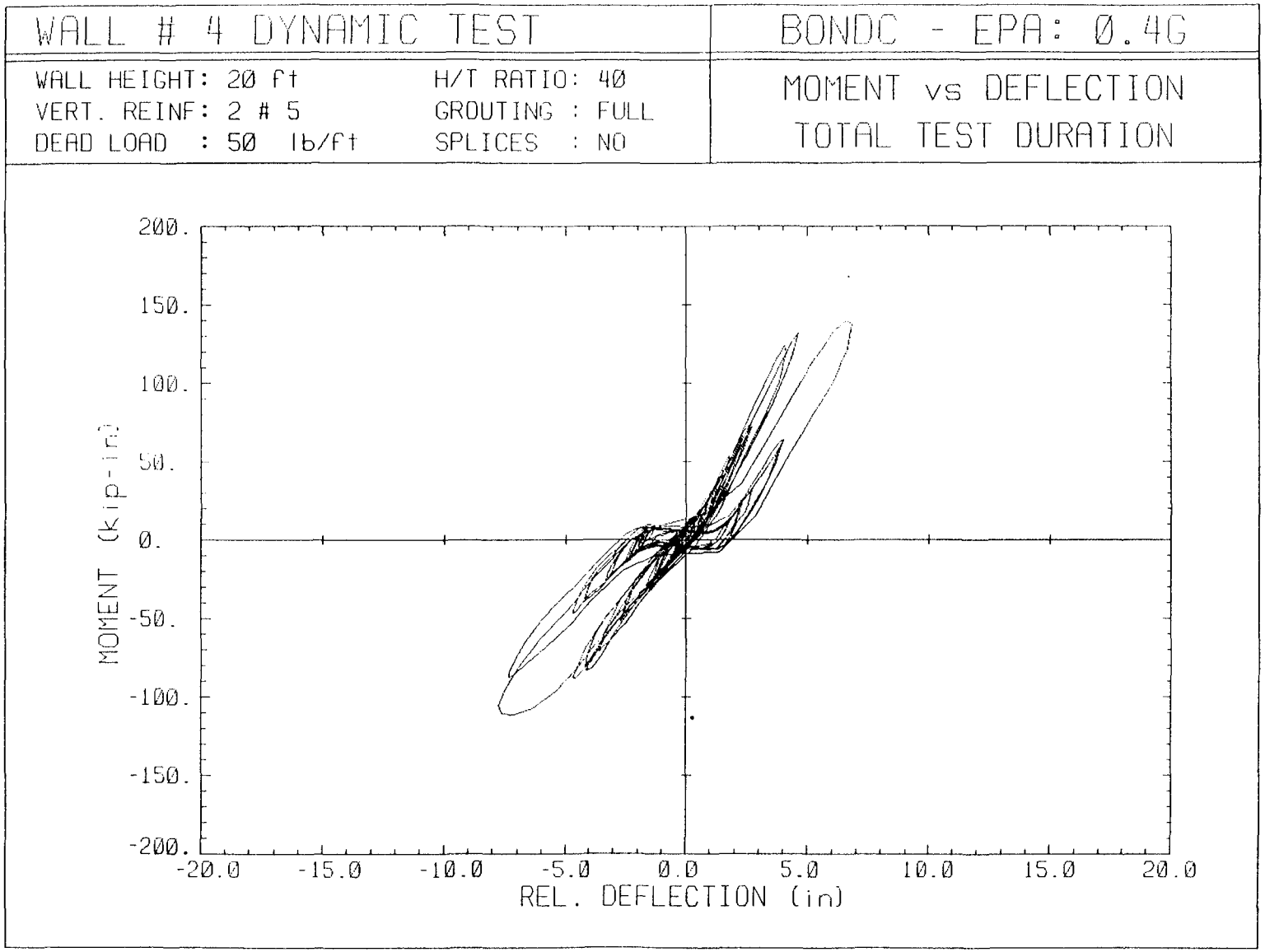

WALL # 4 DYNAMIC TEST
ELC2 - EPA: 0.26
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (kip-in)
REL. DEFLECTION (in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0

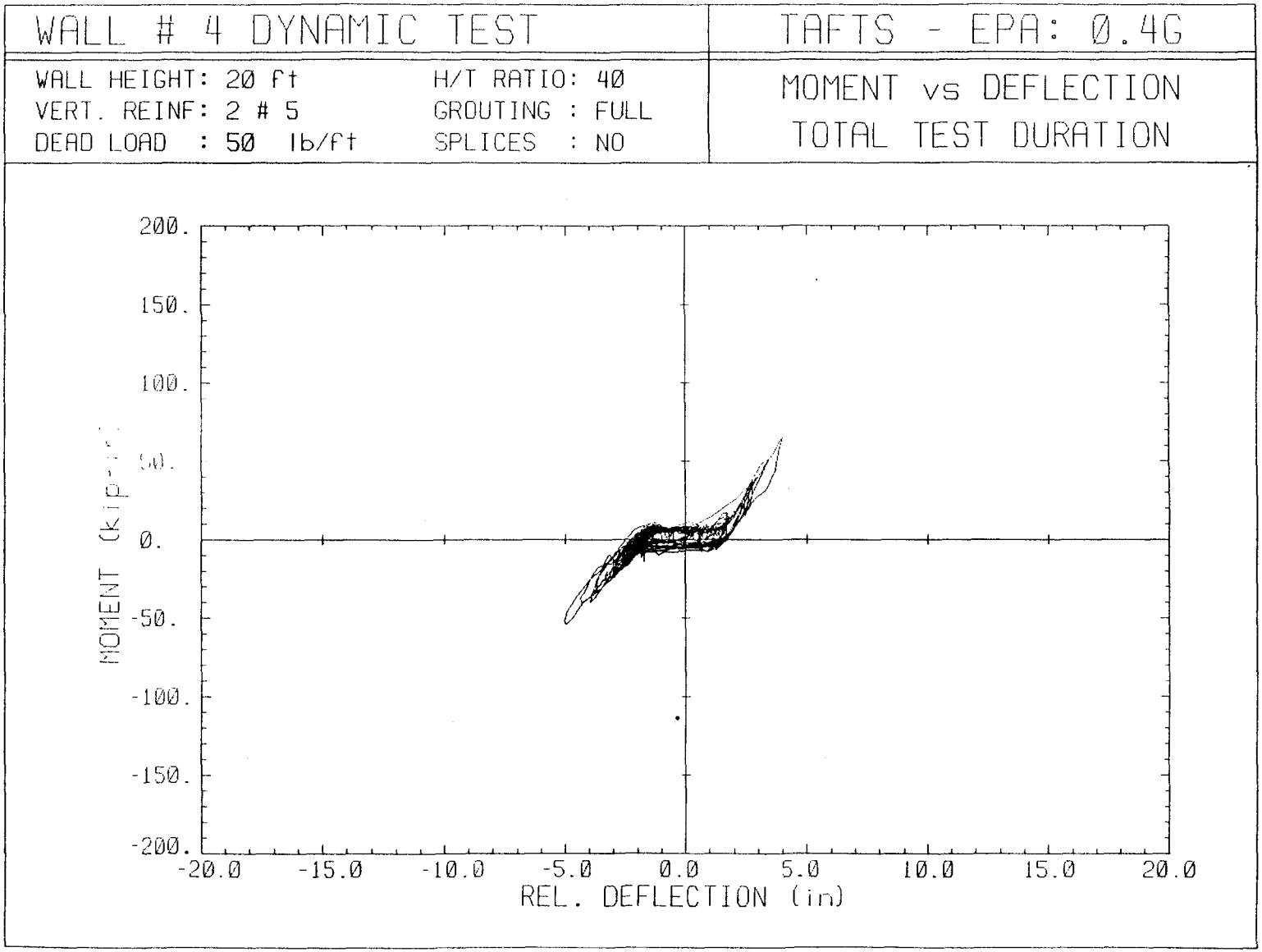

WALL # 4 DYNAMIC TEST
MS5 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

| WALL # 4 DYNAMIC TEST | | MS6 - EPA: 0.4G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 50 lb/ft | SPLICES : NO | |

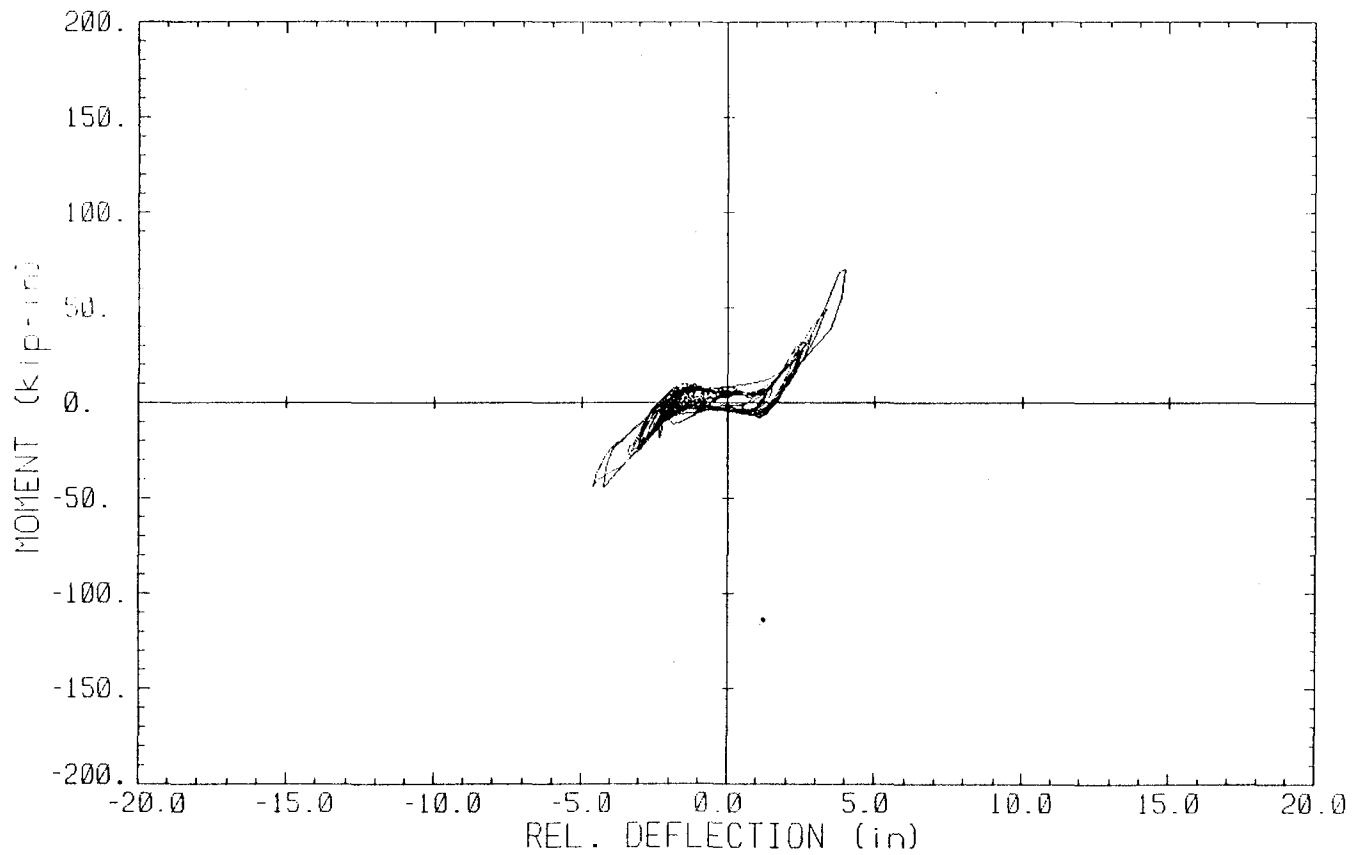


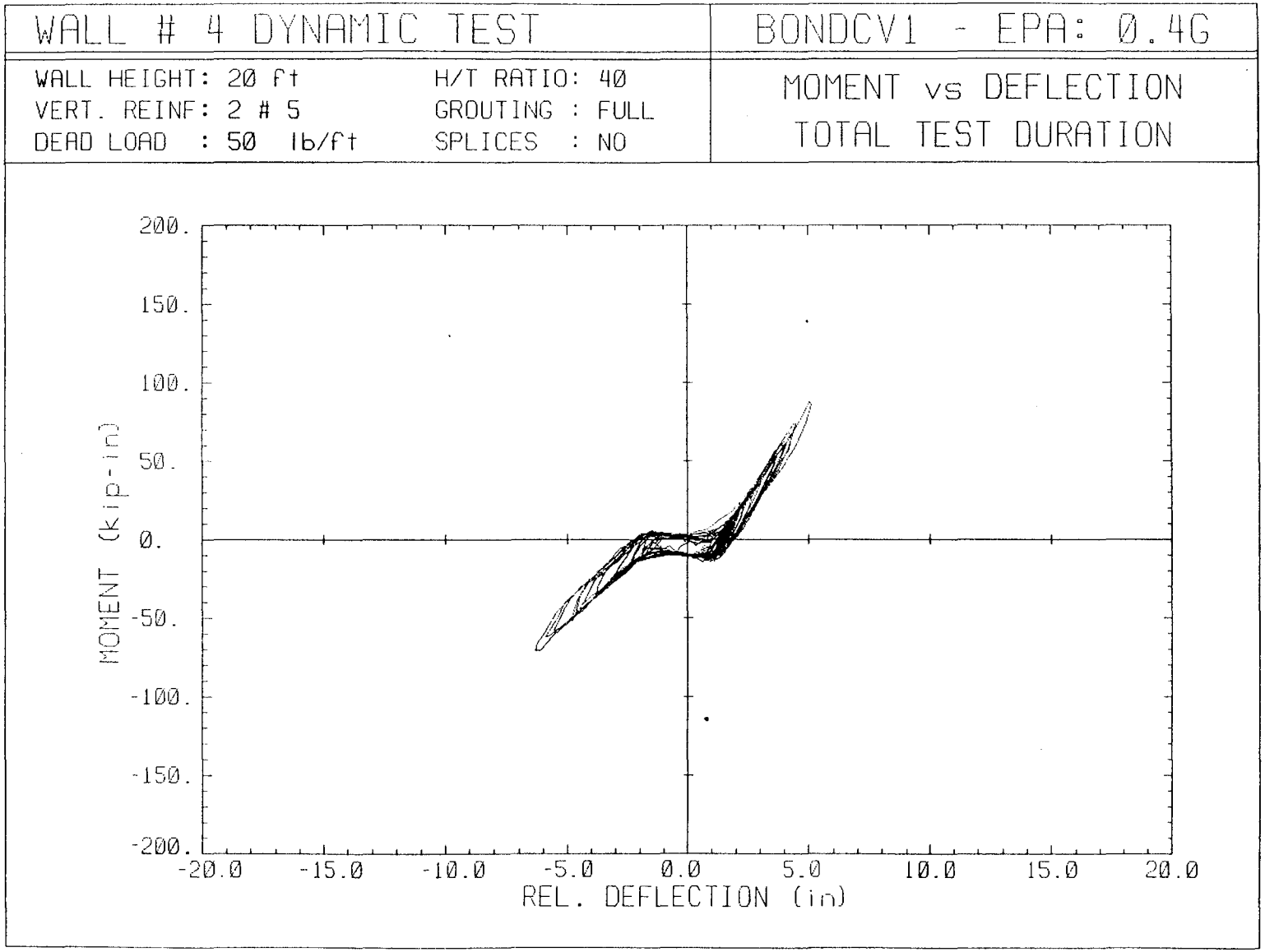

WALL # 4 DYNAMIC TEST
ELC - EPA: 0.4G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

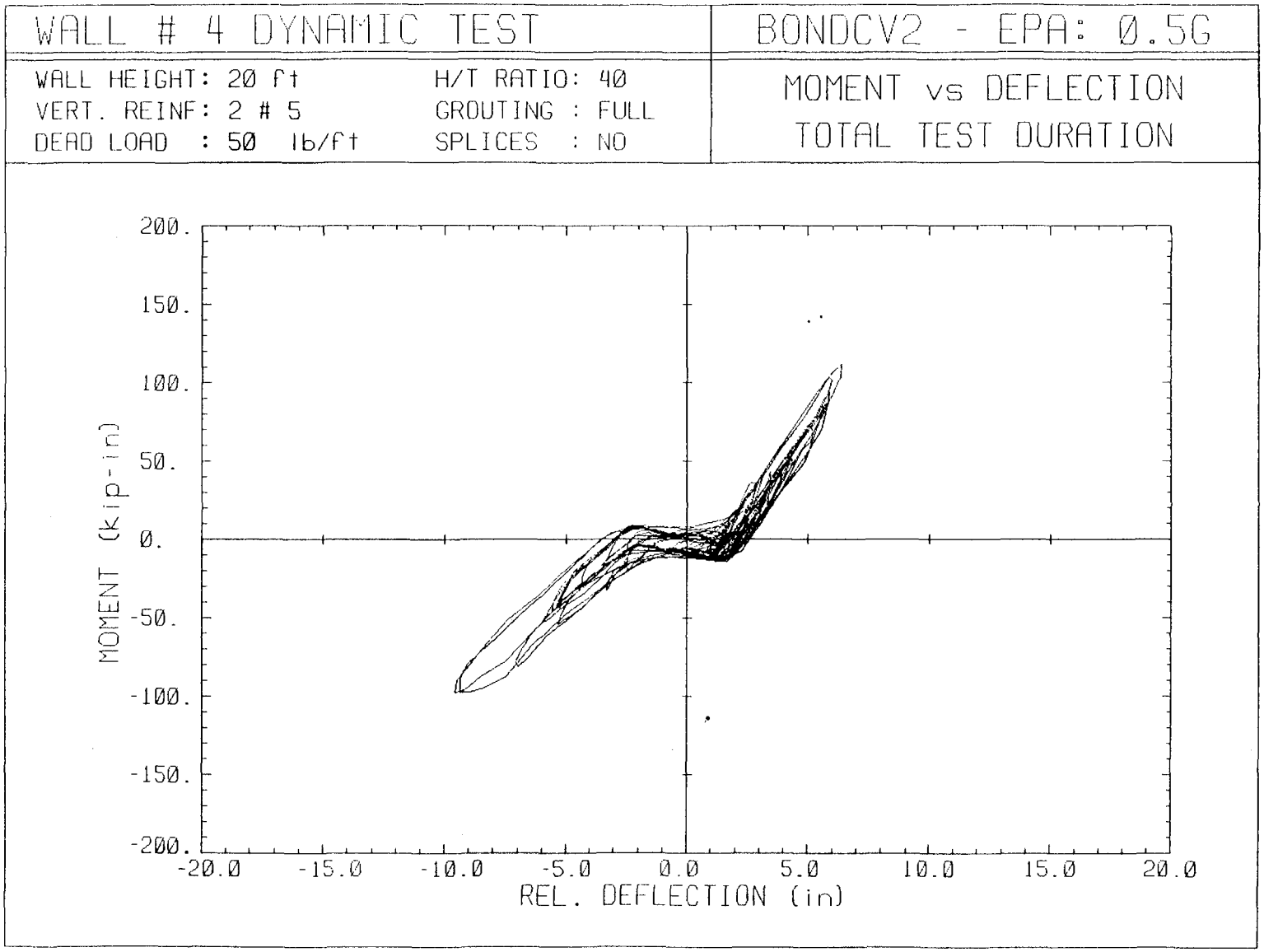

WALL # 4 DYNAMIC TEST
BONDC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

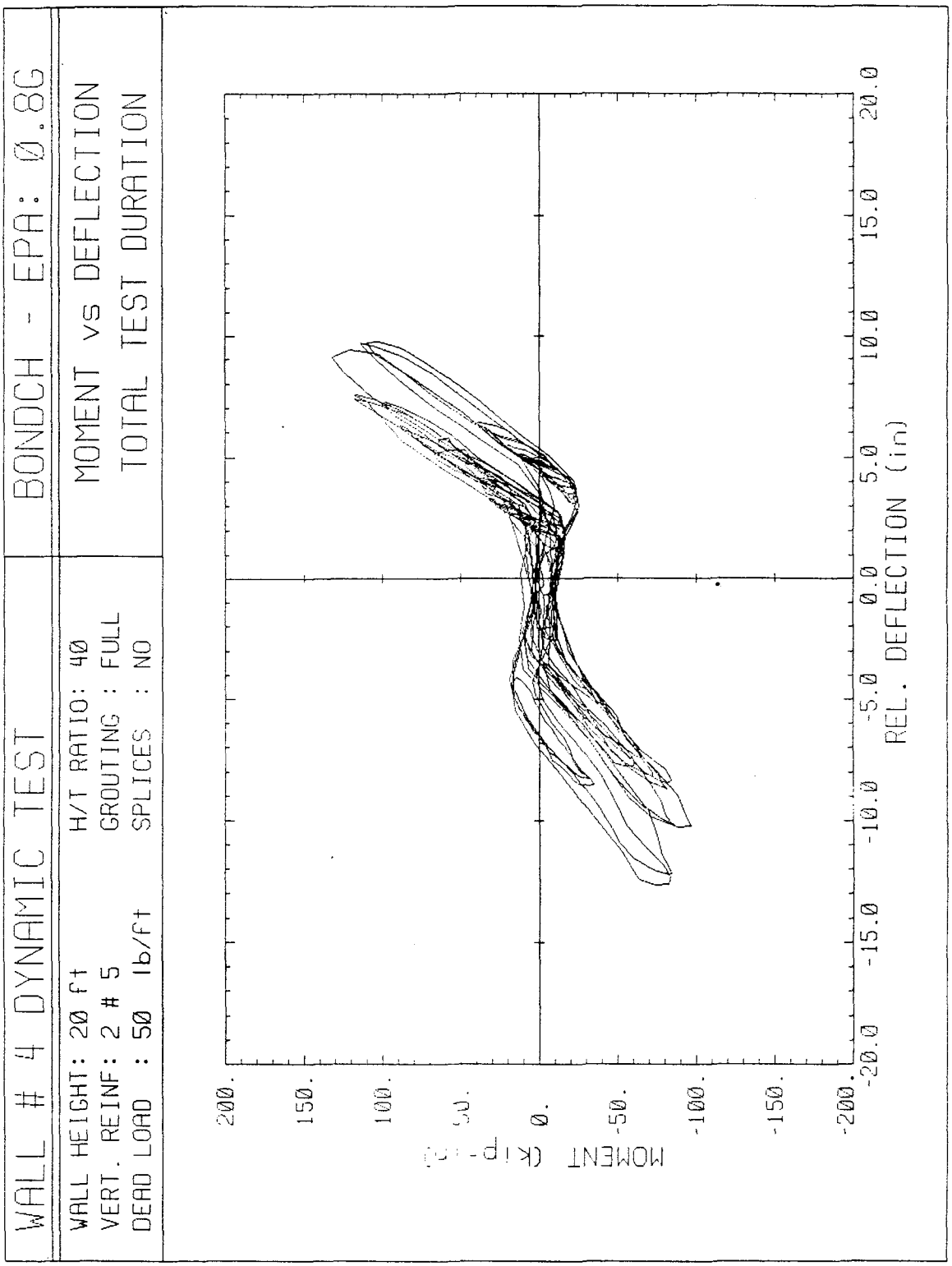

WALL # 4 DYNAMIC TEST
TAFTS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

| WALL # 4 DYNAMIC TEST | | BONDCS - EPA: 0.4G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 50 lb/ft | SPLICES : NO | |

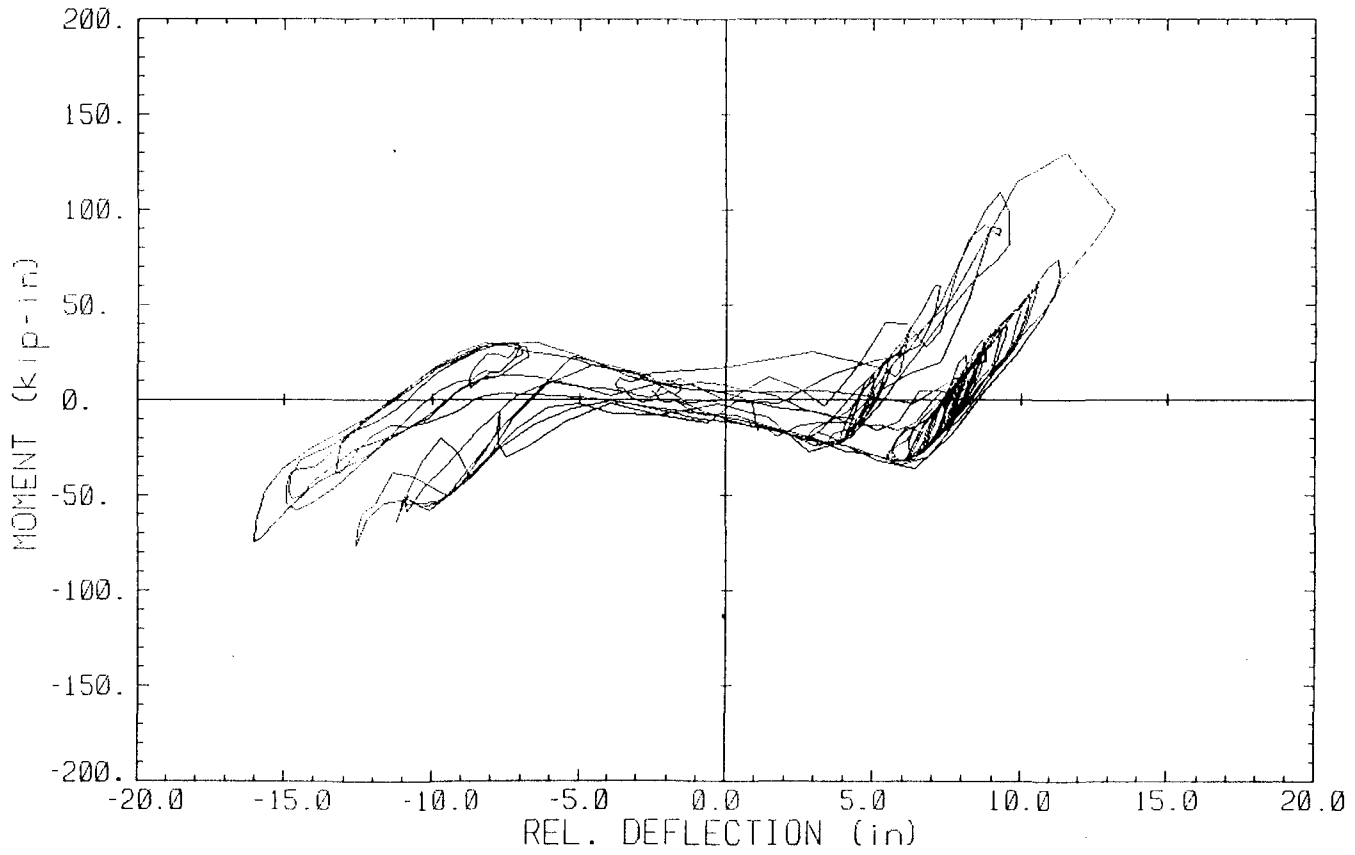


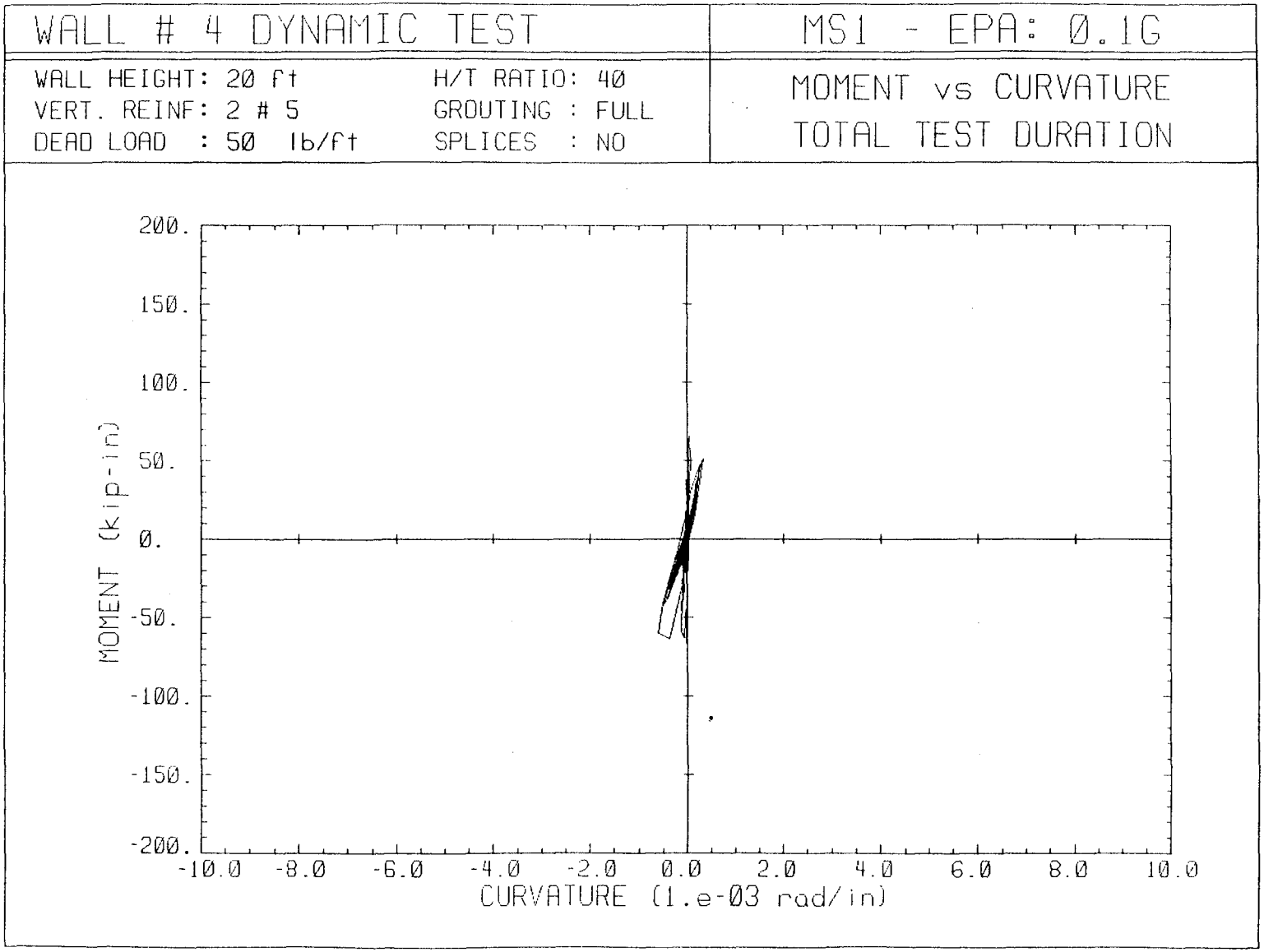

WALL # 4 DYNAMIC TEST
BONDCV1 - EPA: 0.4G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)


WALL # 4 DYNAMIC TEST
BONDCV2 - EPA: 0.5G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

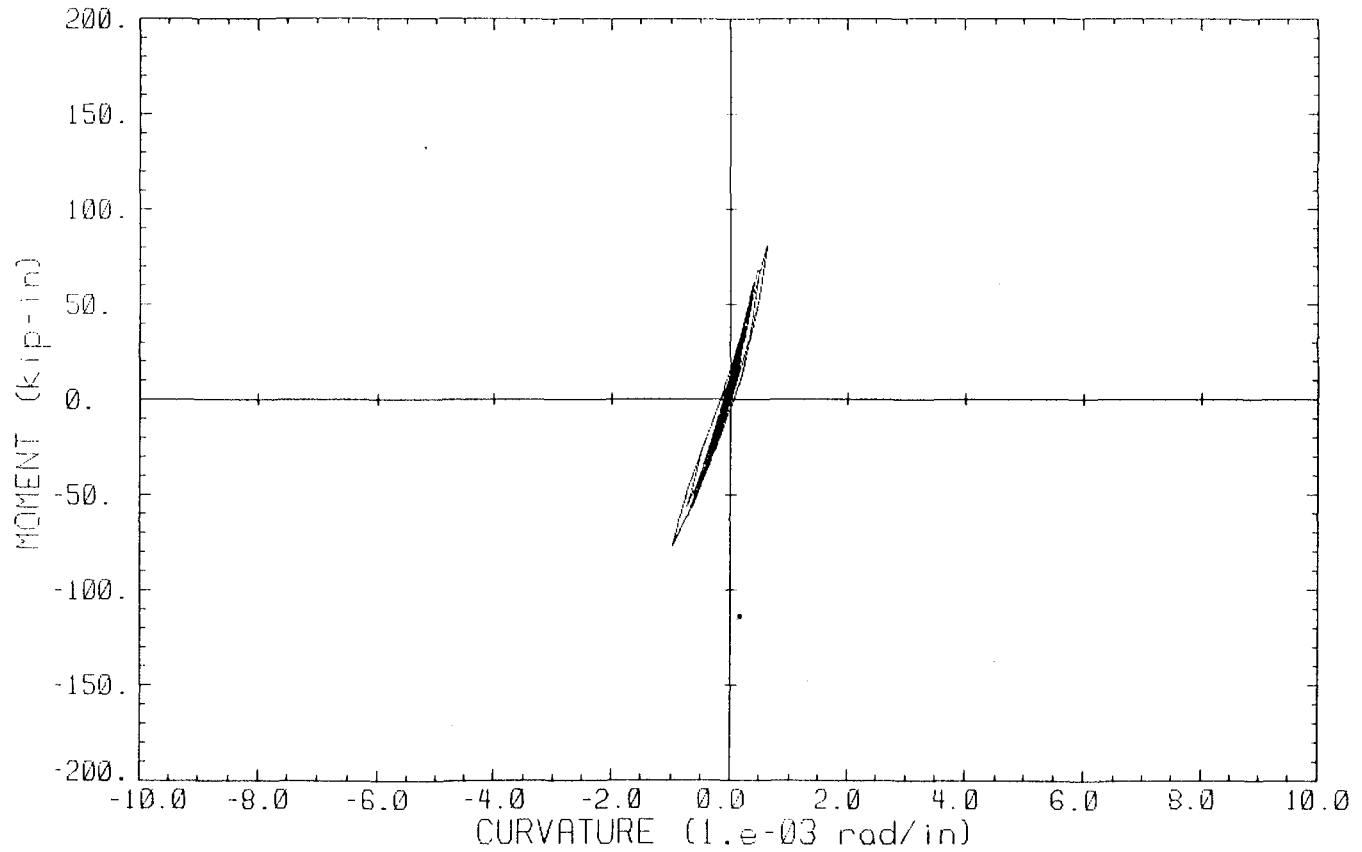

WALL # 4 DYNAMIC TEST
BONDCH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (kip-in)
REL. DEFLECTION (in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0

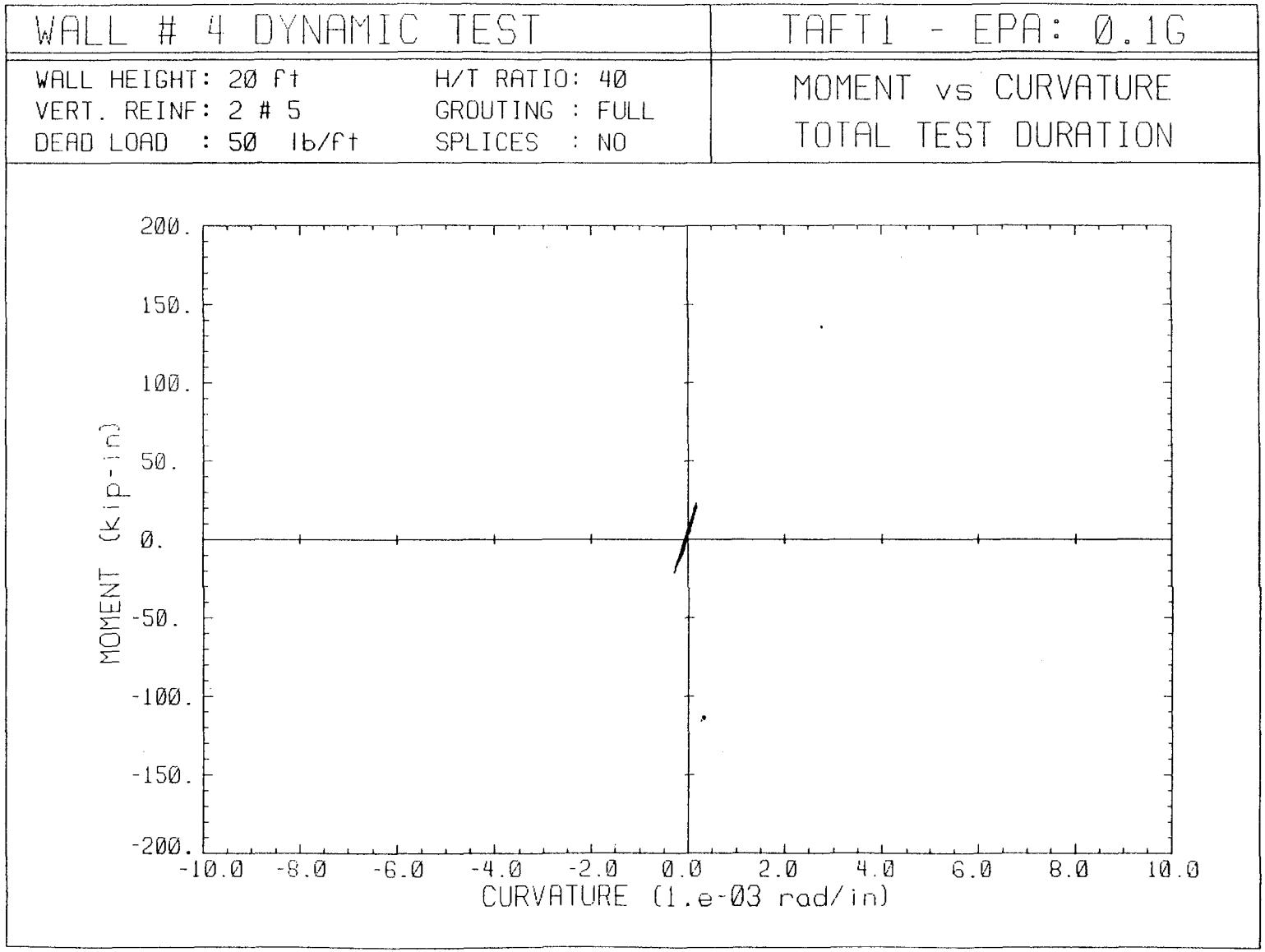
| WALL # 4 DYNAMIC TEST | | BONDCSH - EPA: 0.8G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 50 lb/ft | SPLICES : NO | |



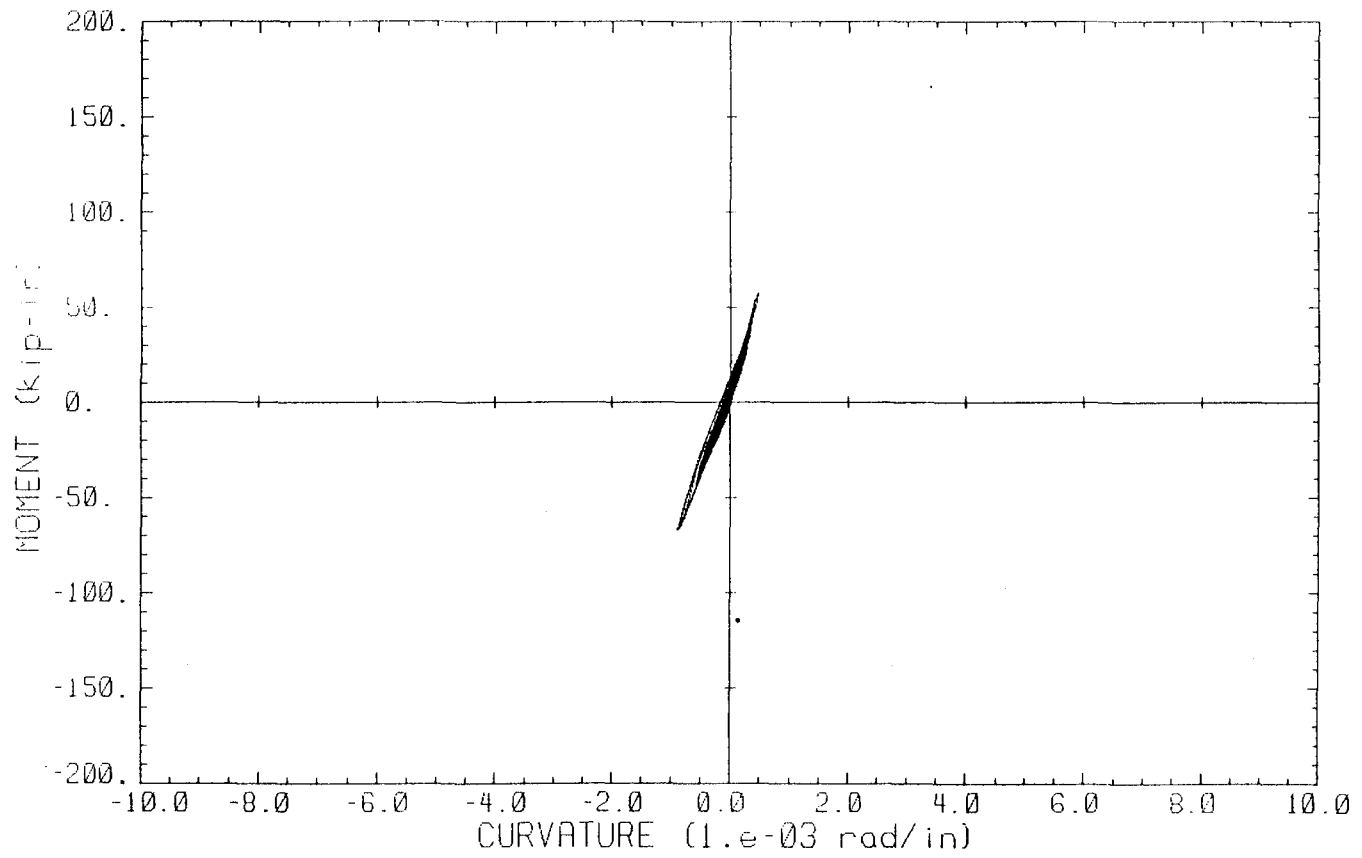

WALL # 4 DYNAMIC TEST
MS1 - EPA: 0.1G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

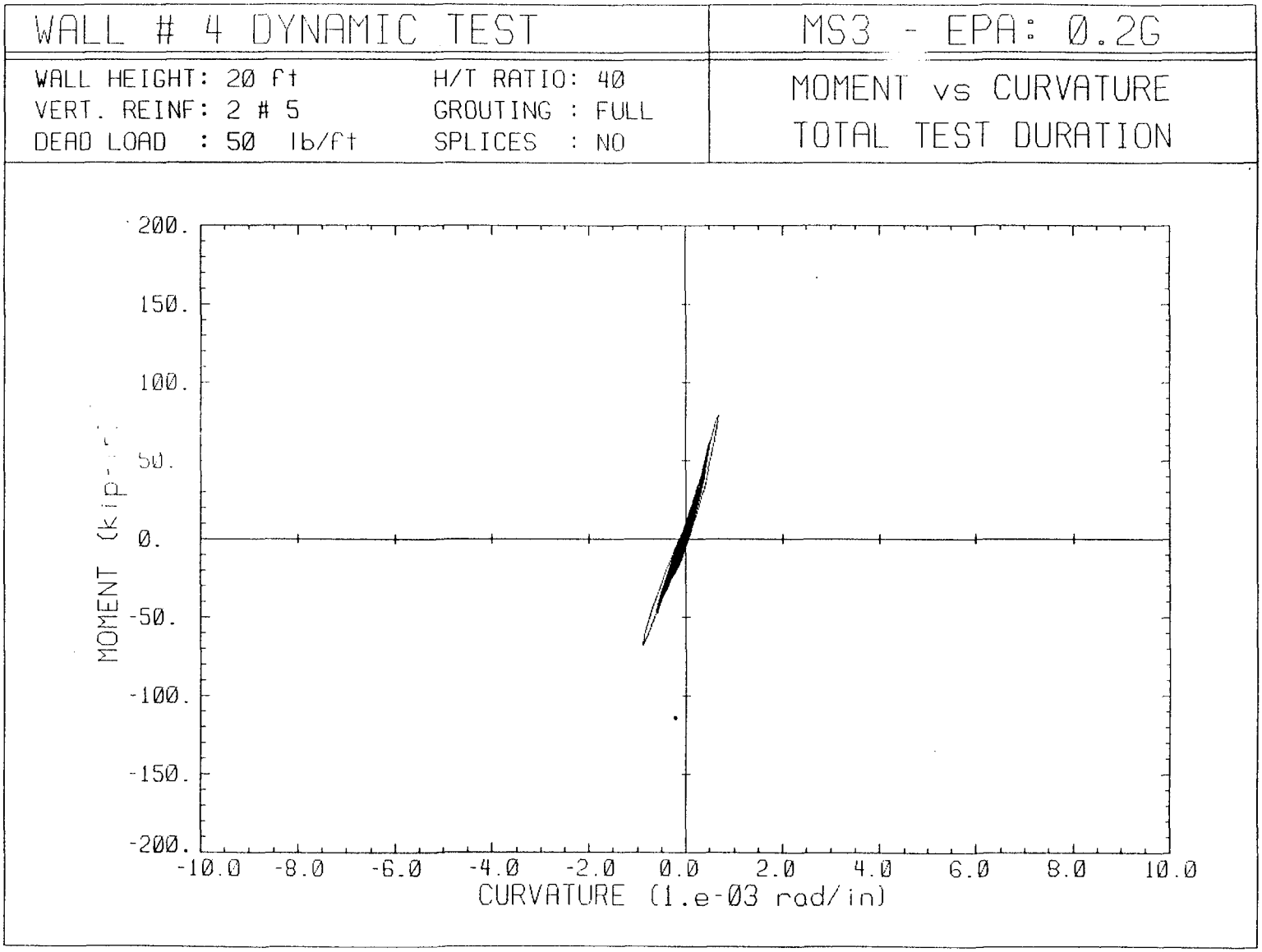
| WALL # 4 DYNAMIC TEST | | MS2 - EPA: 0.1G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 50 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | MOMENT vs CURVATURE<br>TOTAL TEST DURATION |

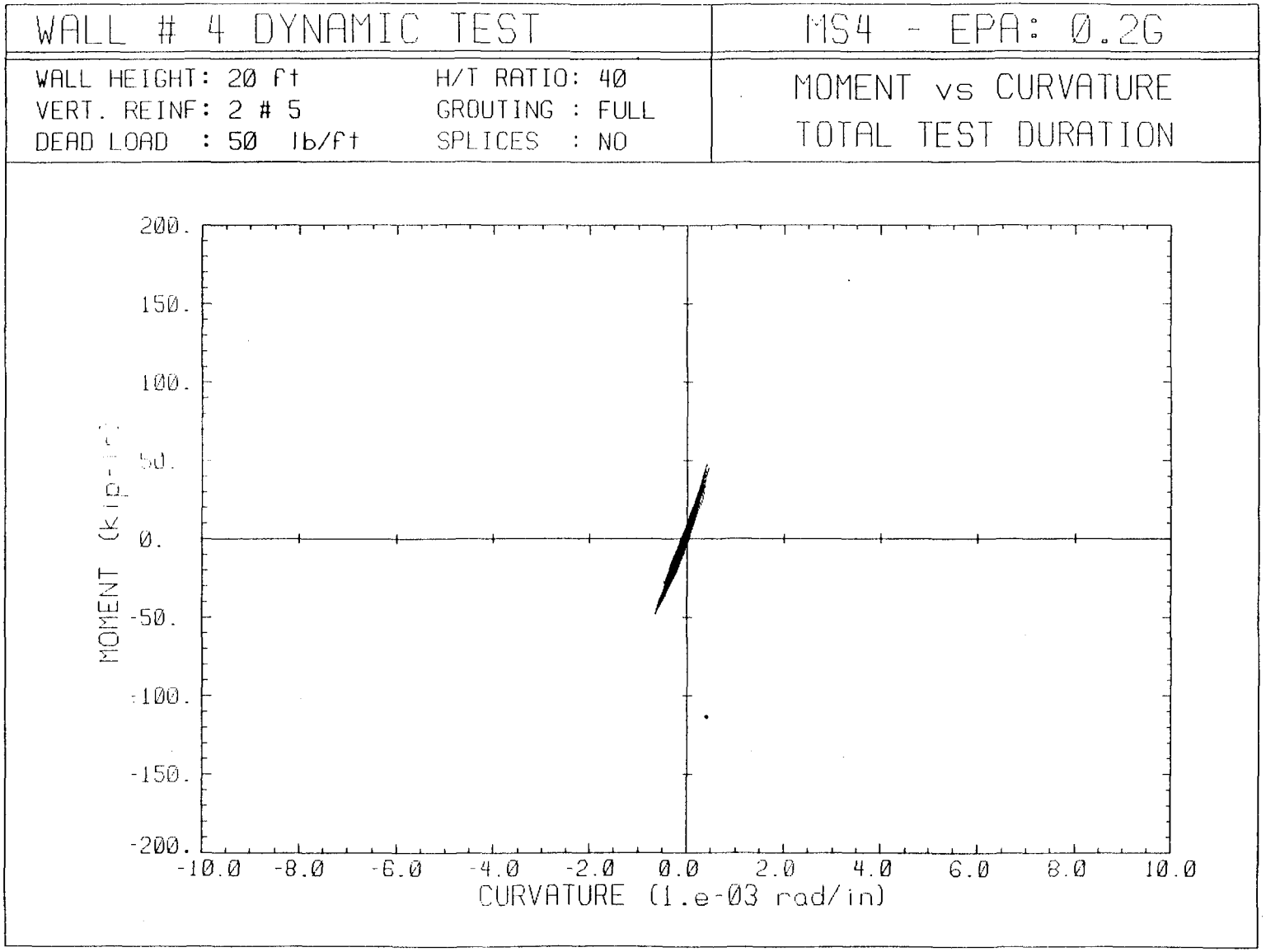


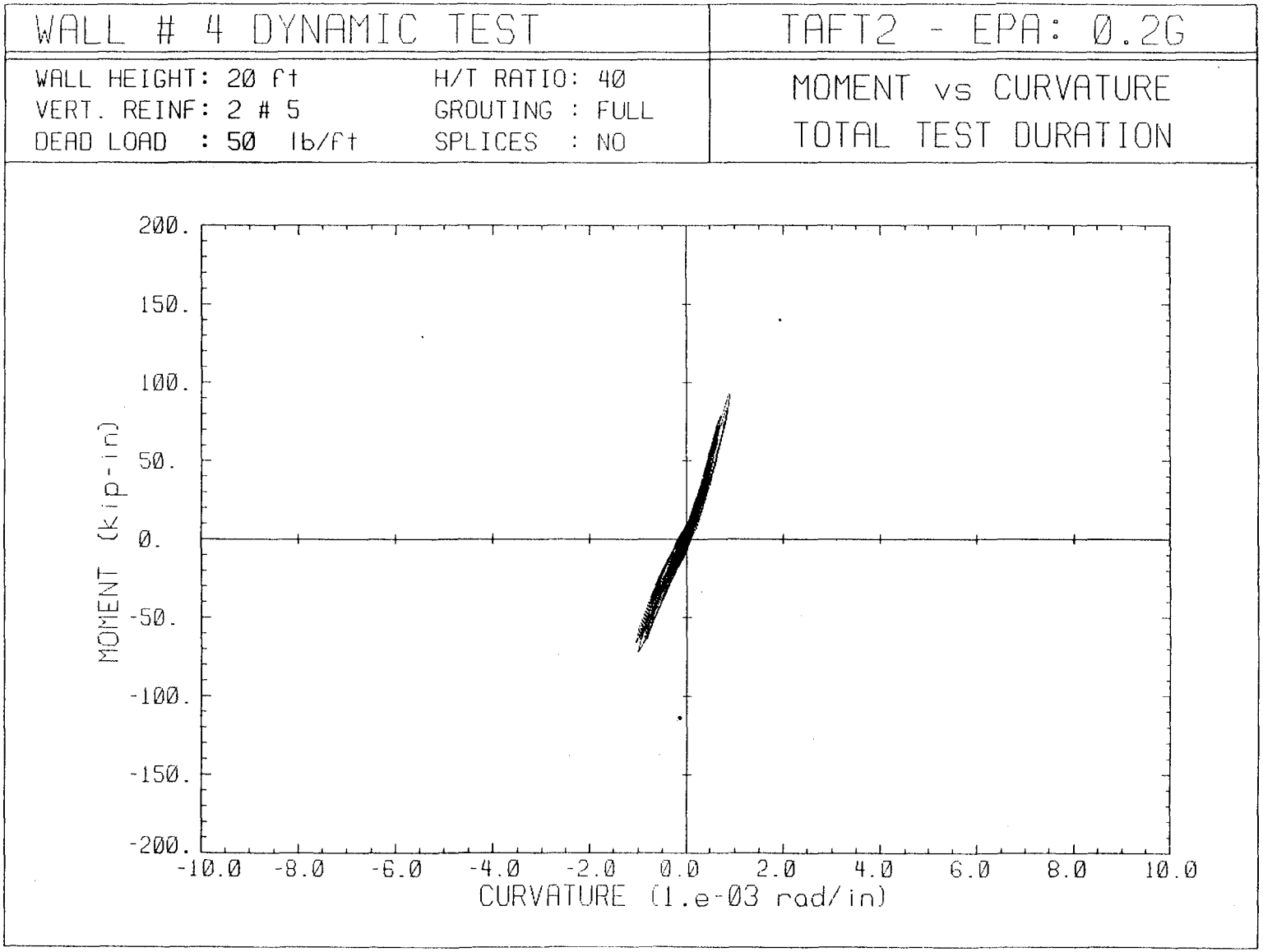

WALL # 4 DYNAMIC TEST
TAFT1 - EPA: 0.1G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

| WALL # 4 DYNAMIC TEST | | ELC1 - EPA: 0.1G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs CURVATURE |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 50 lb/ft | SPLICES : NO | |

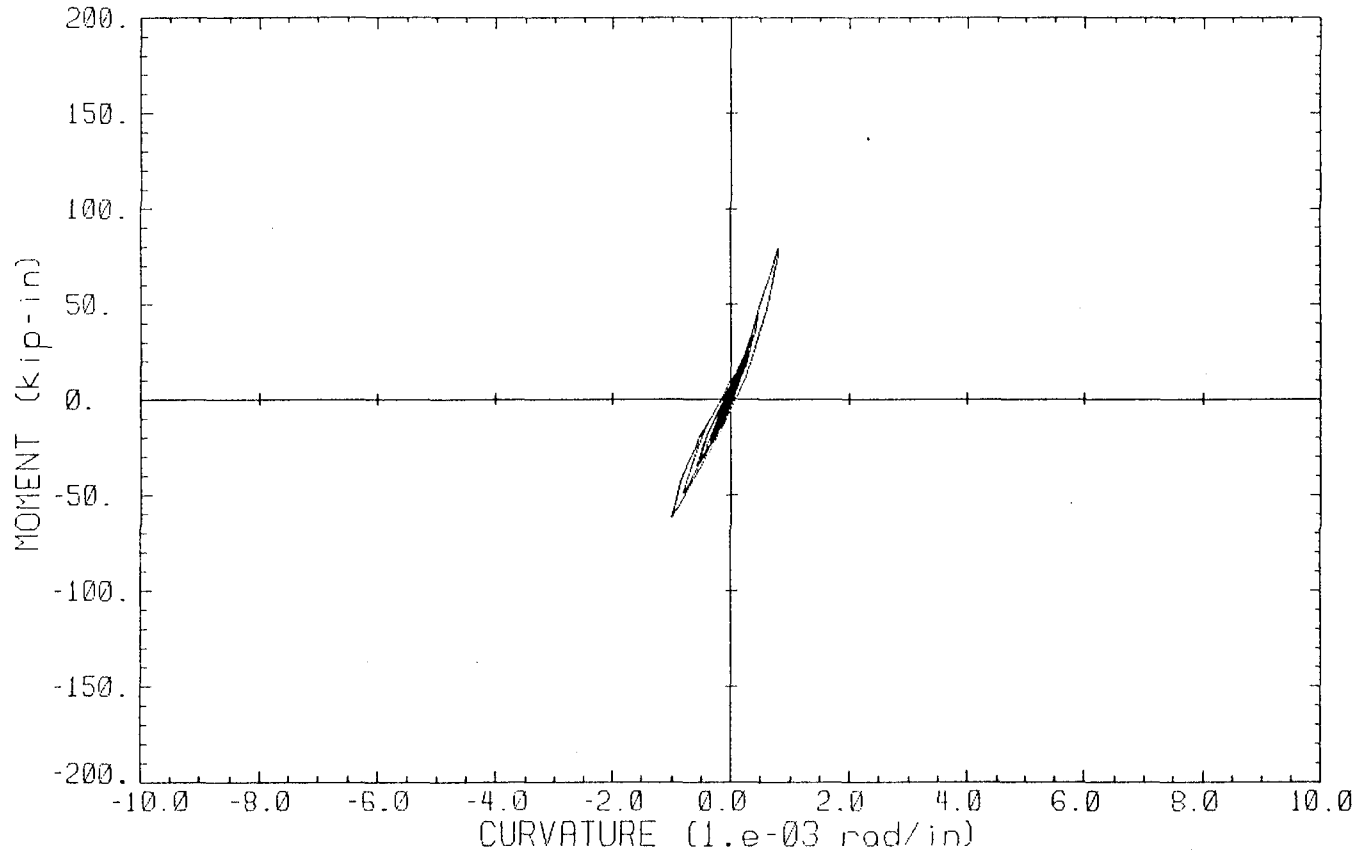


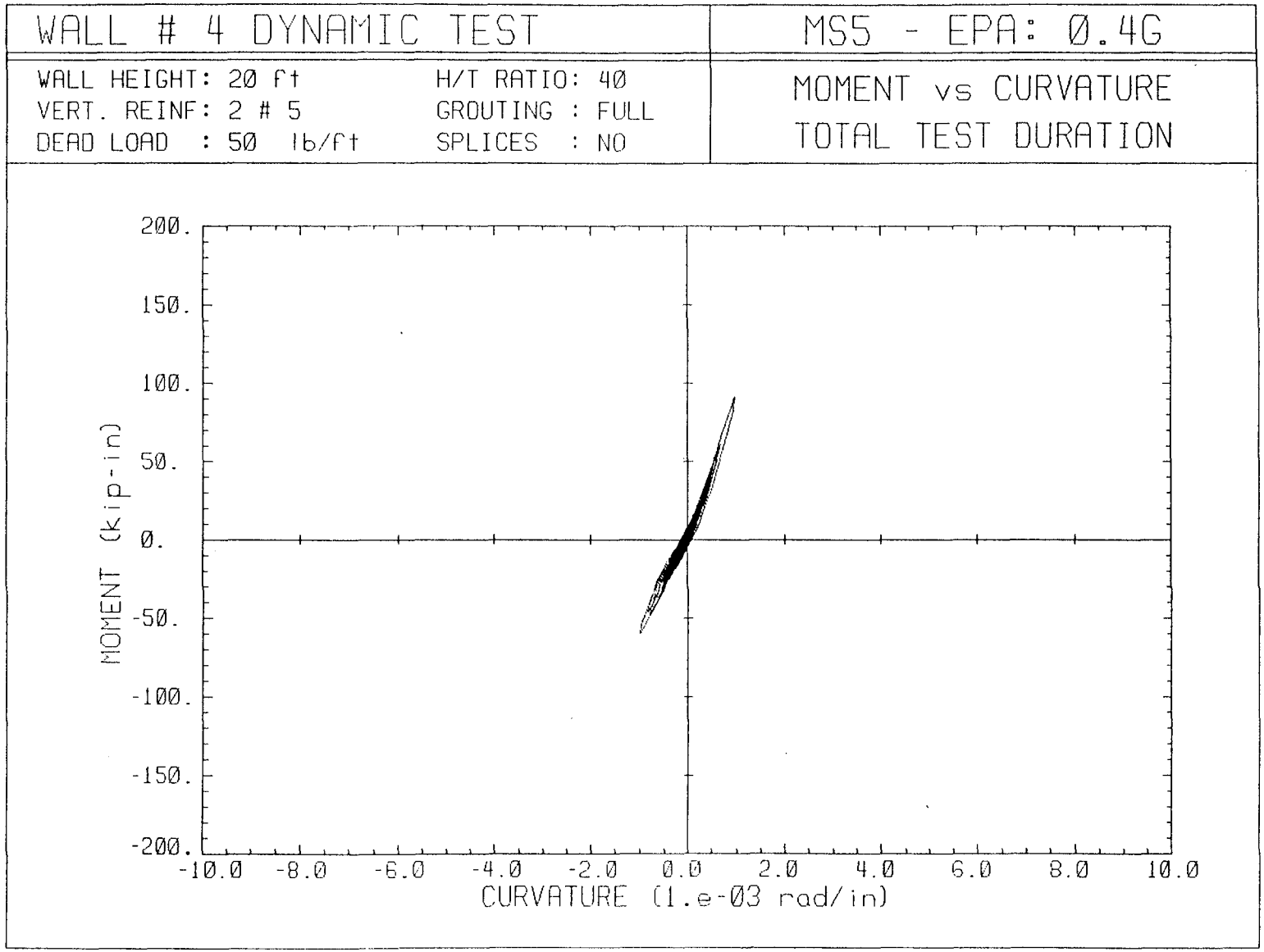

WALL # 4 DYNAMIC TEST
MS3 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

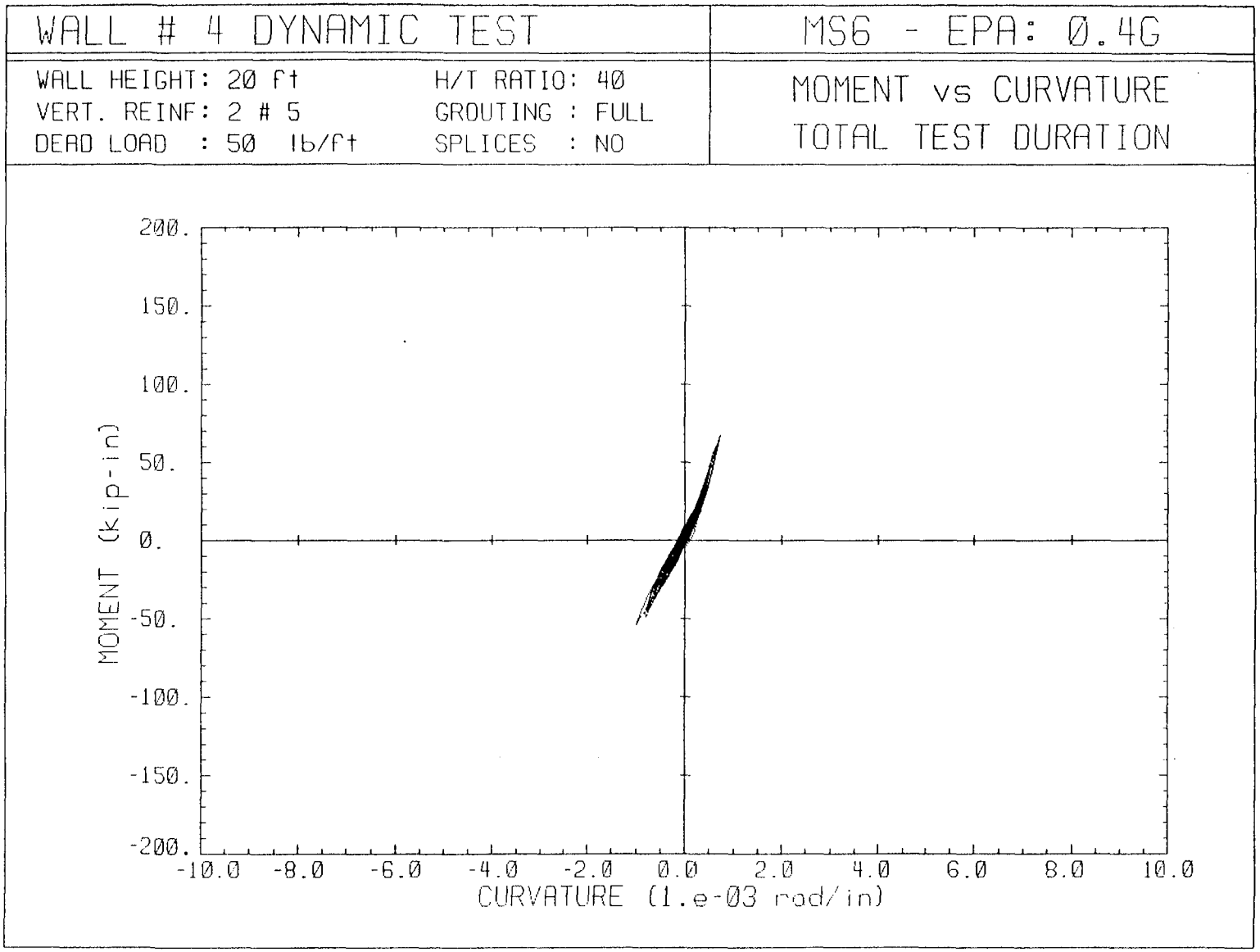

WALL # 4 DYNAMIC TEST
MS4 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-ft)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0 -8.0 -6.0 -4.0 -2.0 0.0 2.0 4.0 6.0 8.0 10.0
CURVATURE (1.e-03 rad/in)

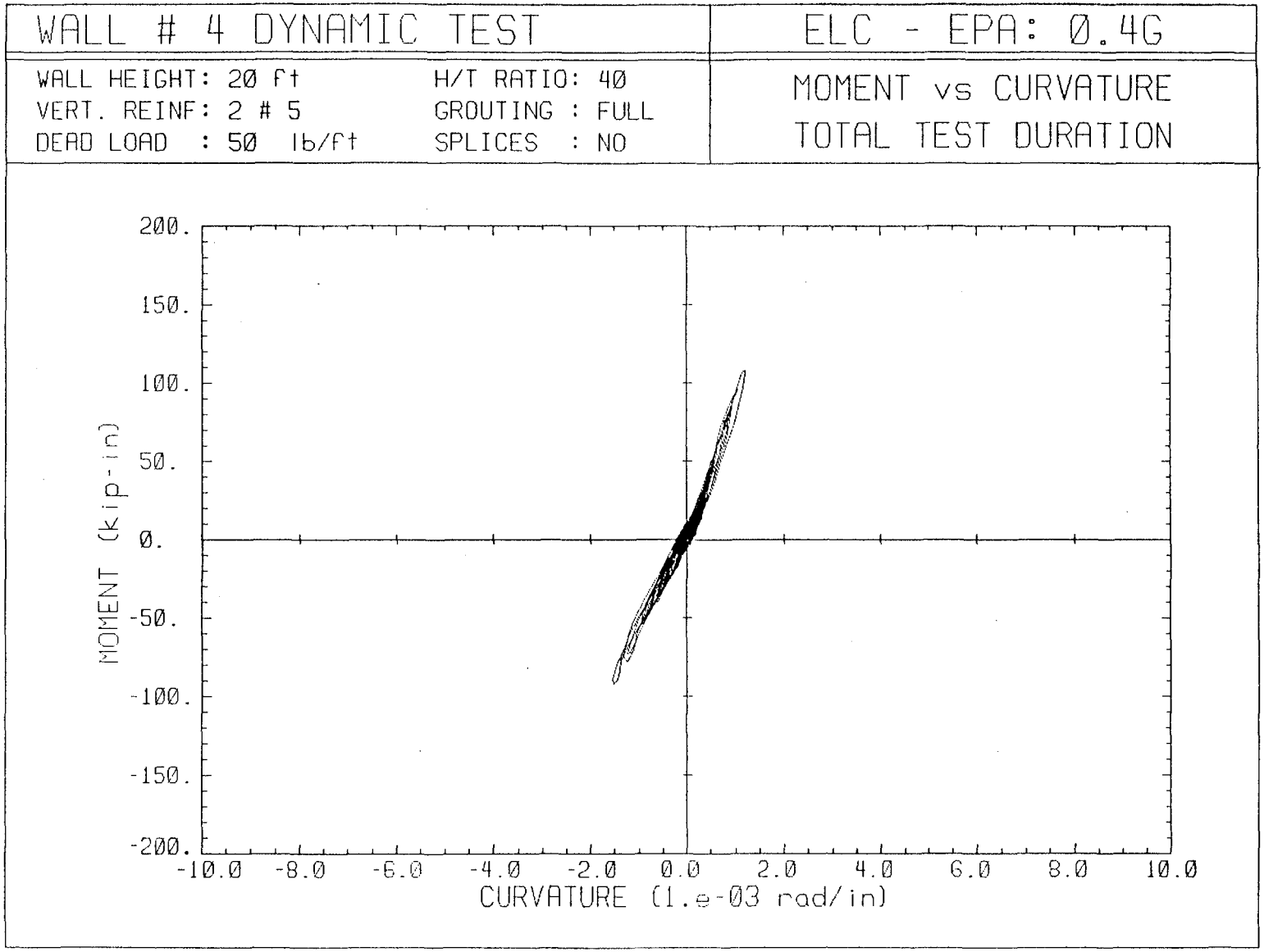

WALL # 4 DYNAMIC TEST
TAFT2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

| WALL # 4 DYNAMIC TEST | | ELC2 - EPA: 0.2G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs CURVATURE |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 50 lb/ft | SPLICES : NO | |

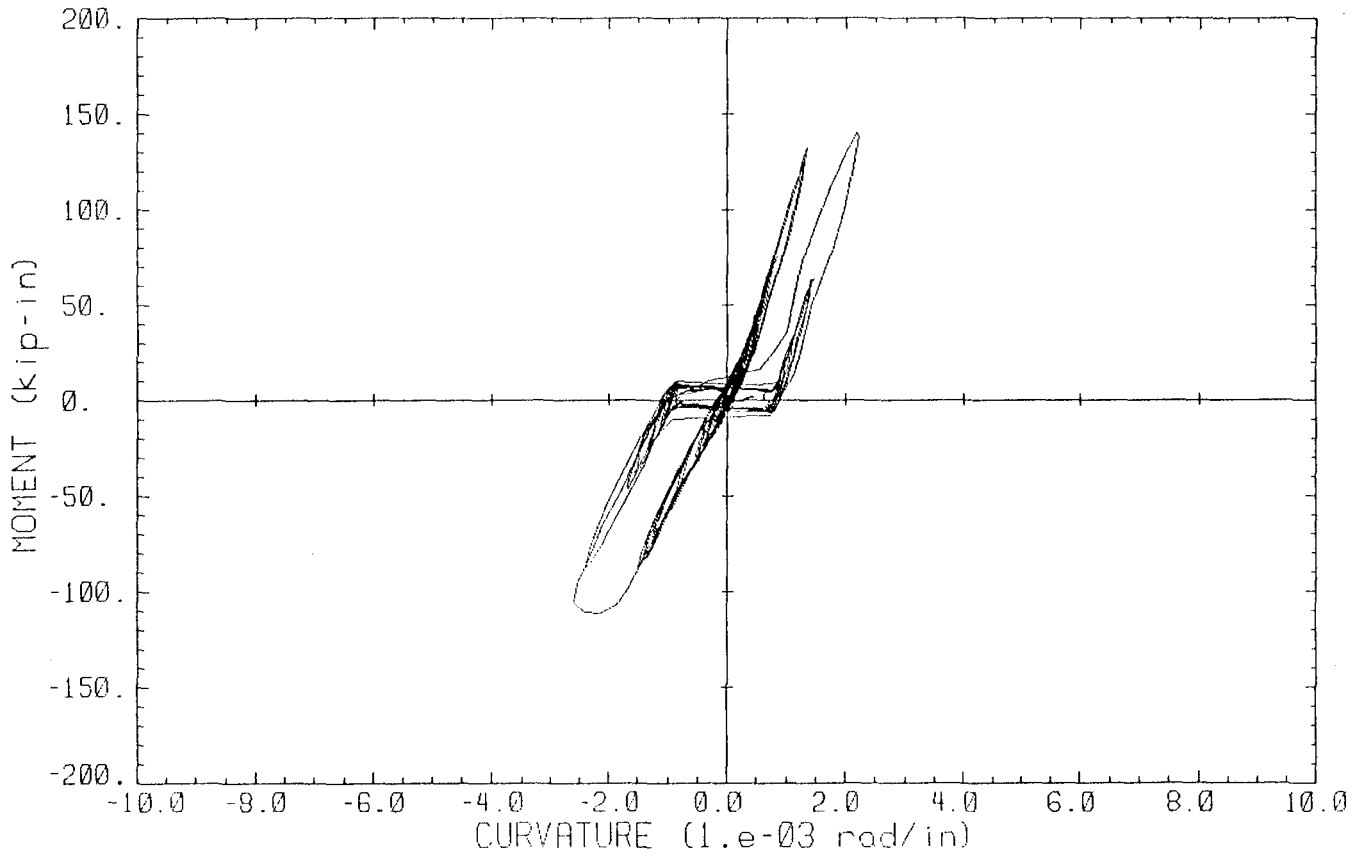


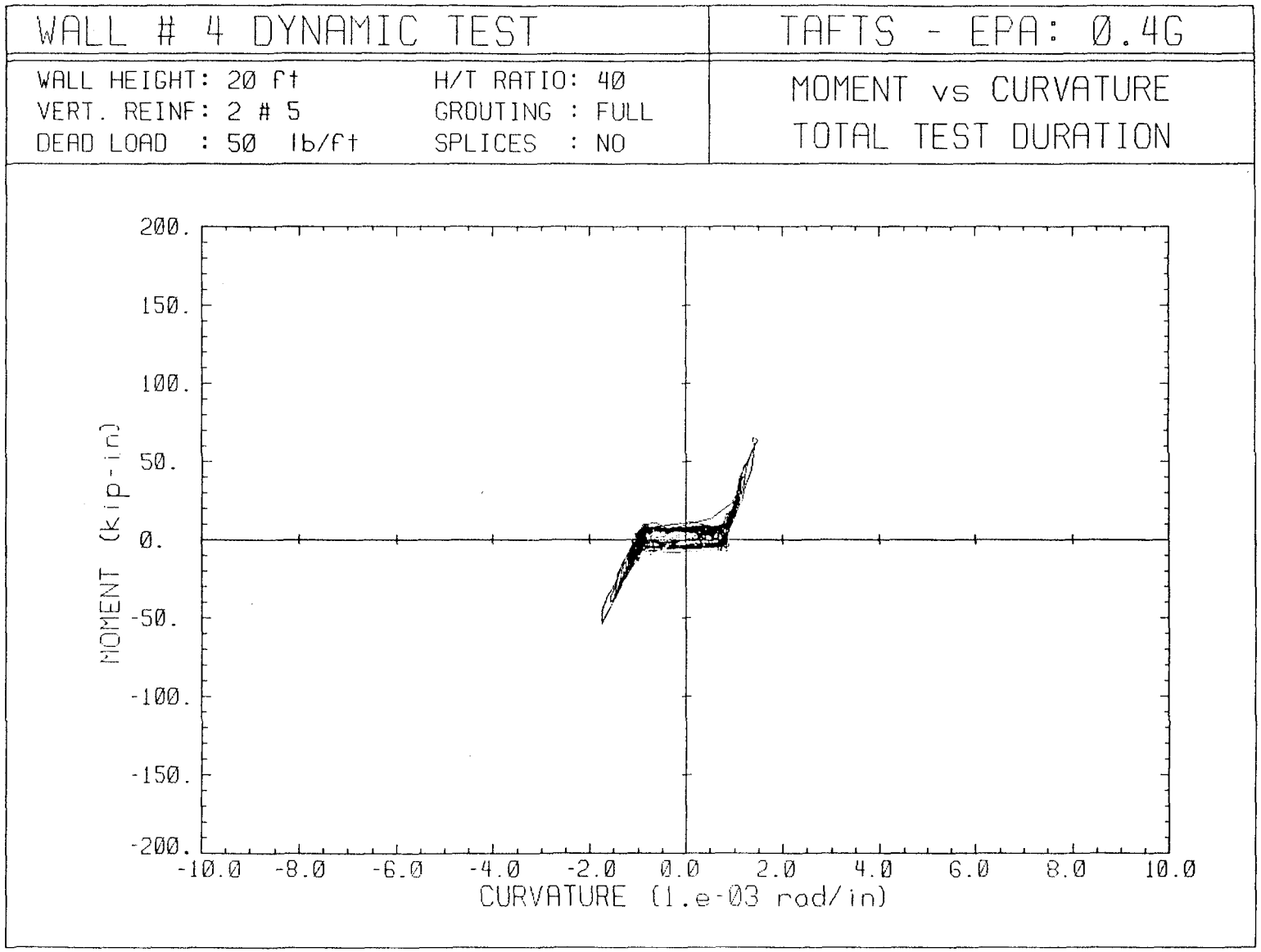

WALL # 4 DYNAMIC TEST
MS5 - EPA: Ø.4G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
-10.Ø -8.Ø -6.Ø -4.Ø -2.Ø 0.Ø 2.Ø 4.Ø 6.Ø 8.Ø 10.Ø
CURVATURE (1.e-Ø3 rad/in)

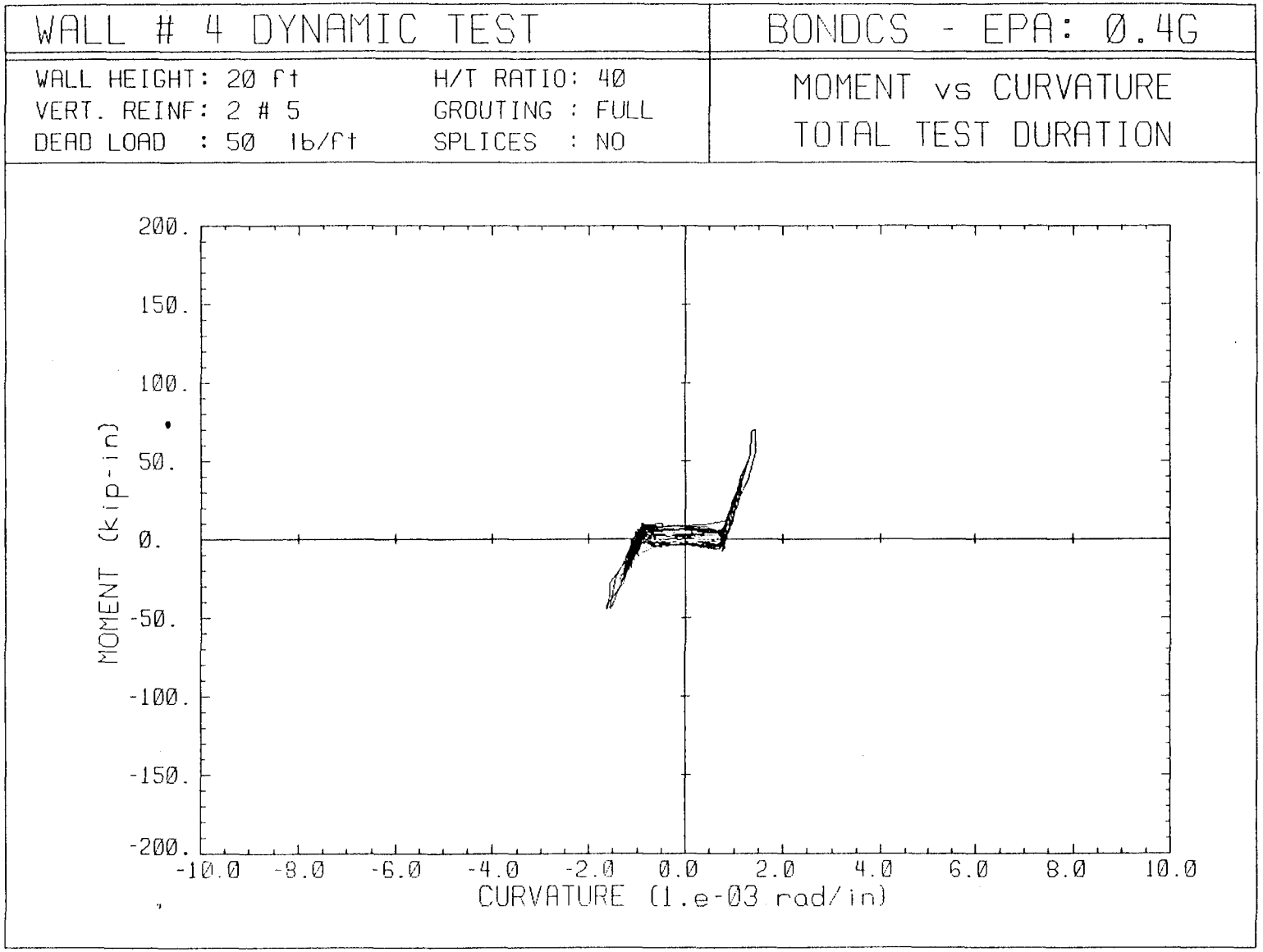

WALL # 4 DYNAMIC TEST
MS6 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

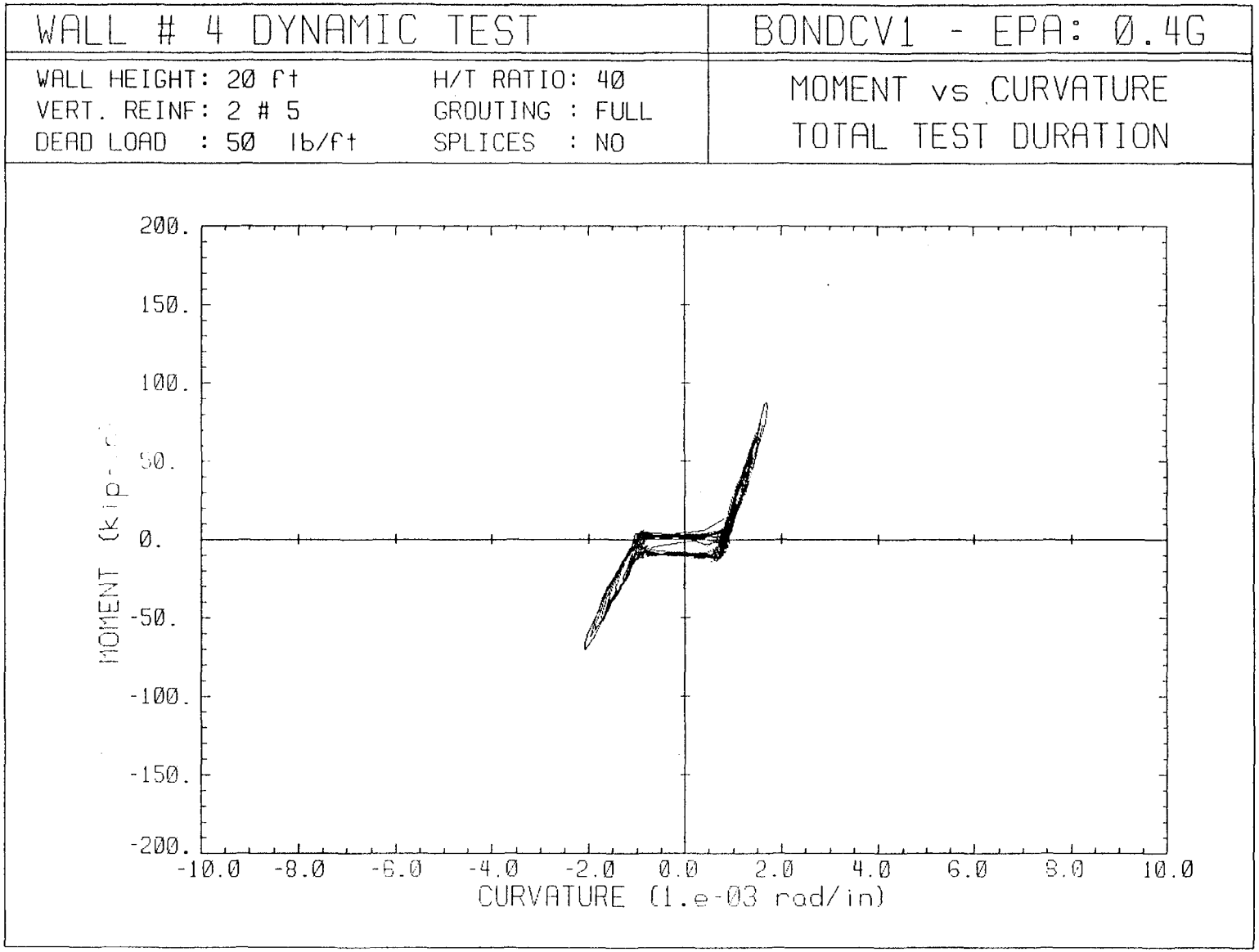

WALL # 4 DYNAMIC TEST
ELC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

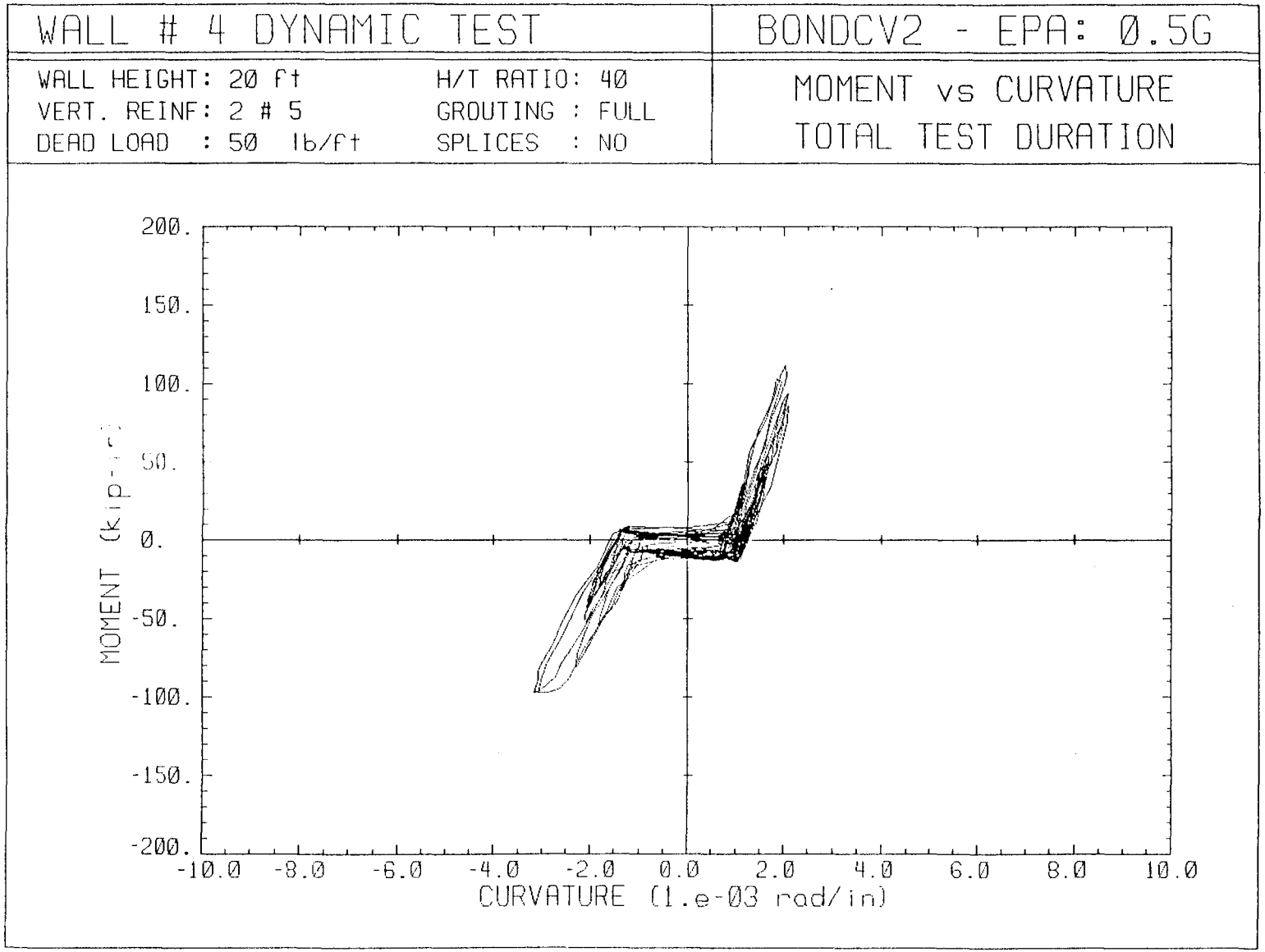
| WALL # 4 DYNAMIC TEST | | BONDC - EPA: 0.4G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs CURVATURE |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 50 lb/ft | SPLICES : NO | |

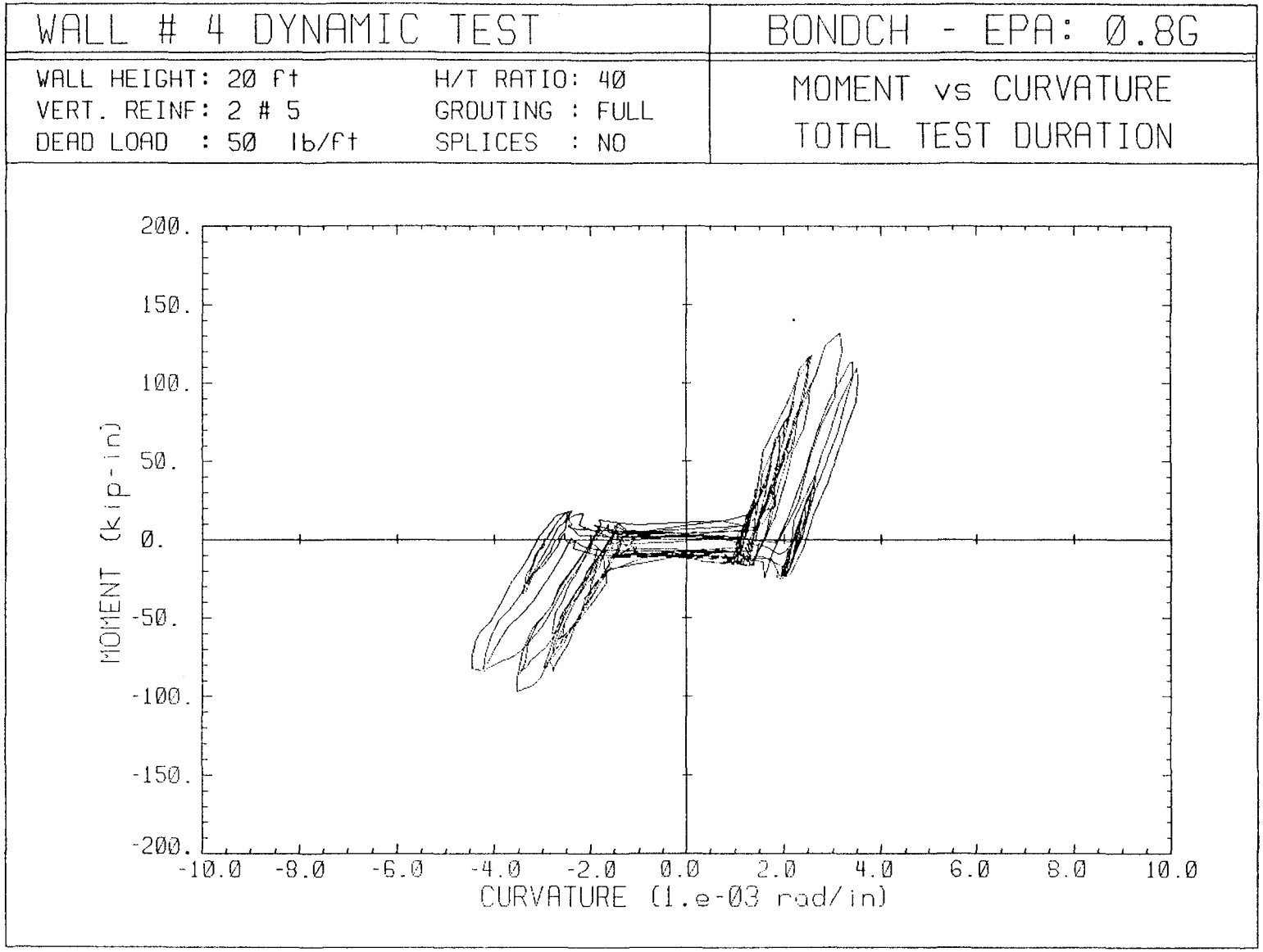


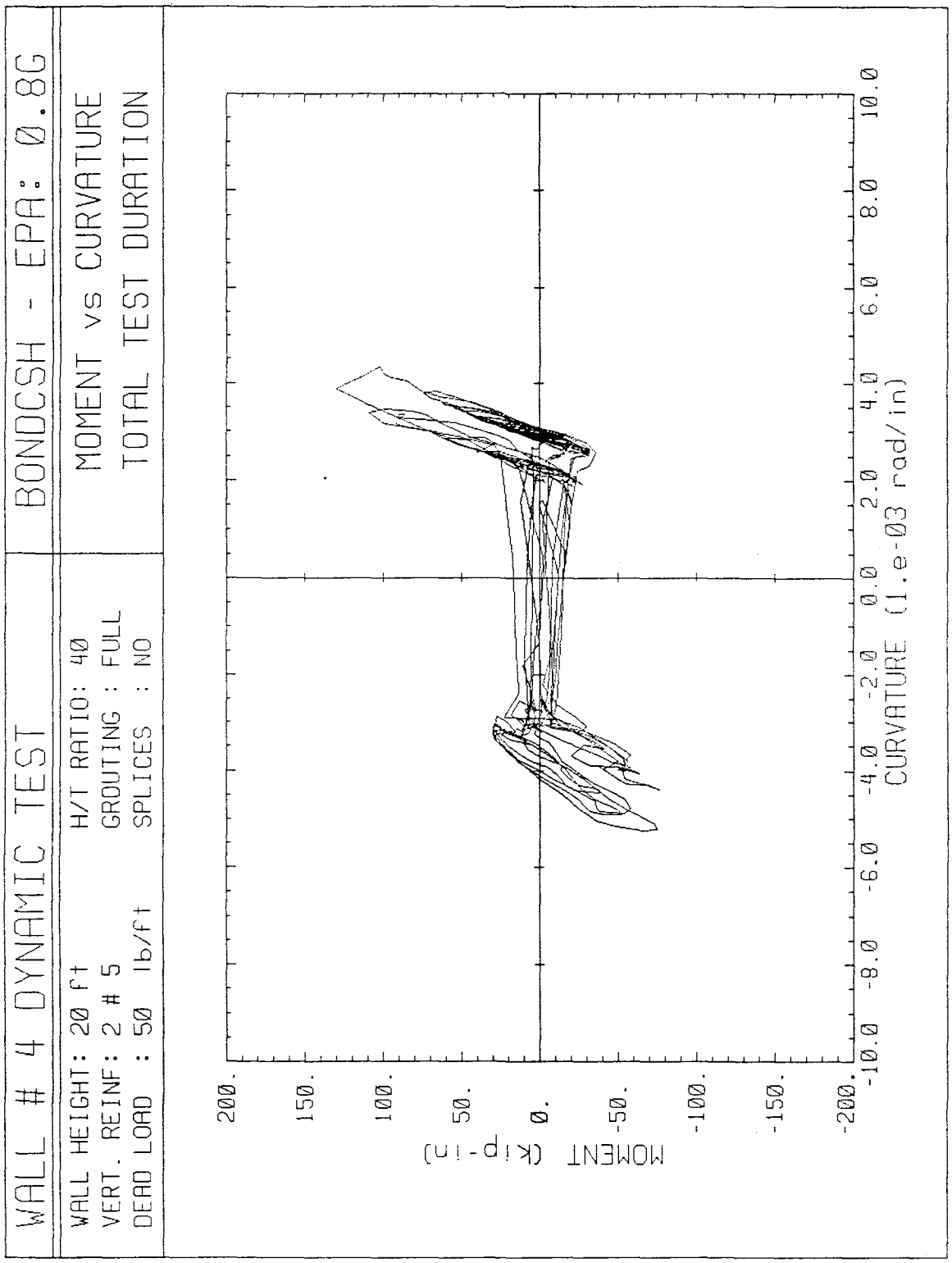

WALL # 4 DYNAMIC TEST
TAFTS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

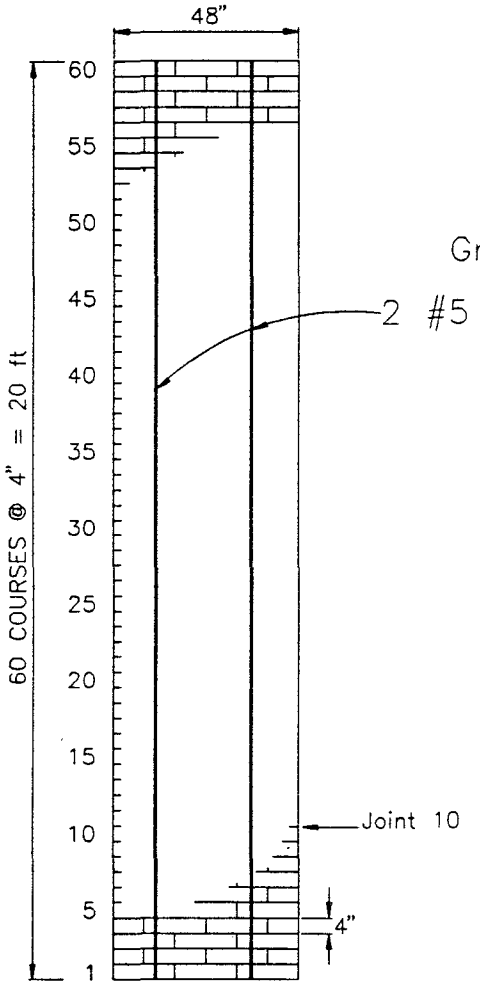

WALL # 4 DYNAMIC TEST
BONDCS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)


WALL # 4 DYNAMIC TEST
BONDCV1 - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
MOMENT (kip-ft)
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

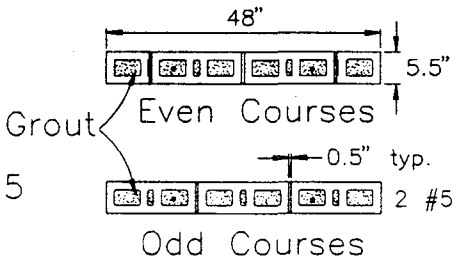

WALL # 4 DYNAMIC TEST
BONDCV2 - EPA: 0.5G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 50 lb/ft
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)


WALL # 4 DYNAMIC TEST
BONDCH - EPA: Ø.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
-10.0 -8.0 -6.0 -4.0 -2.0 0.0 2.0 4.0 6.0 8.0 10.0
CURVATURE (1.e-03 rad/in)


WALL # 4 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 50 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)




ELEVATION

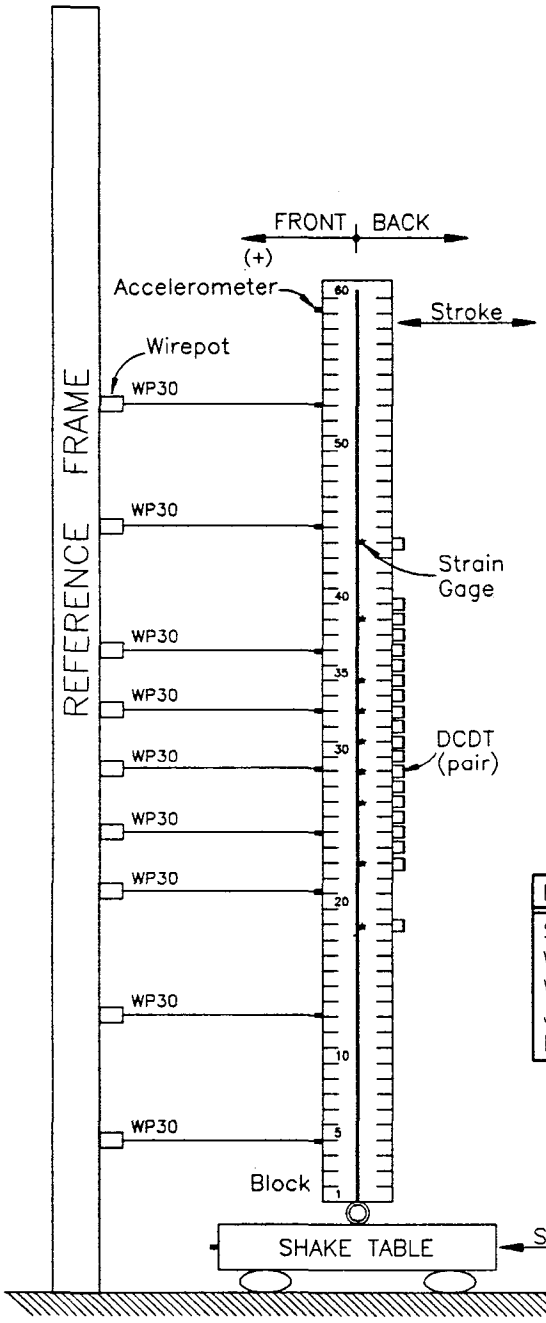


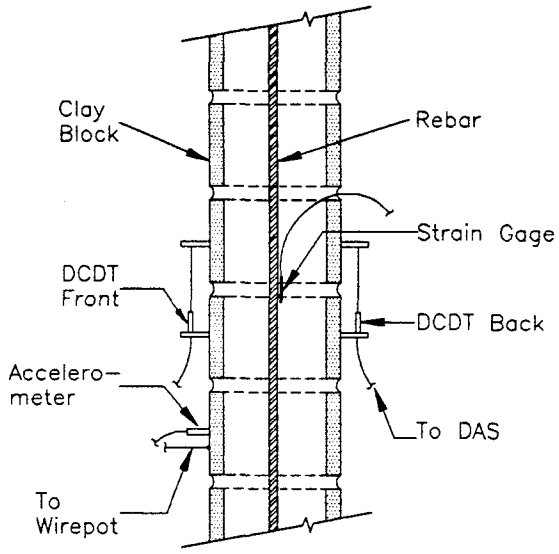

COURSE LAYOUT

Wall Height: 20 ft
Nominal Thickness: 6"
H/t = 40
Vertical Reinf.: 2 #5
No Splices
Full Grouting
Dead Load: 300 lb/ft

SPECIFICATIONS

# WALL #6 CONSTRUCTION DRAWINGS




TYPICAL SECTION

| MEASUREMENT | # | INSTRUMENT | RANGE |
|---|---|---|---|
| Stroke | 2 | LVDT's | ± 6 in |
| Wall Acc. | 11 | Acc's | ± 4 g's |
| Wall Displ. | 9 | WP NN | ± NN in |
| Joint Def. | 20 | DCDT pairs | ± 0.5 in |
| Rebar Strain | 9 | SG's | ± 0.2 in/in |

SPECIFICATIONS

# WALL #6 INSTRUMENTATION SCHEMATICS

## Wall No. 6: Test Sequence & Peak Measurements

| Run | | EPA | Diaphragm | Displacement (in) | | | Acceleration (g) | | | Rebar Strain (in/in) |
|---|---|---|---|---|---|---|---|---|---|---|
| No | ID | | | Bottom | Center | Top | Bottom | Center | Top | |
| 1 | MS1 | 0.10 | Flexible | 1.33 | 1.47 | 1.45 | 0.08 | 0.55 | 0.24 | |
| 2 | MS2 | 0.10 | Stiff | 0.27 | 0.78 | 0.29 | 0.10 | 0.62 | 0.29 | |
| 3 | TAFT1 | 0.10 | Flexible | 0.81 | 0.88 | 0.84 | 0.07 | 0.14 | 0.13 | |
| 4 | ELC1 | 0.10 | Stiff | 1.25 | 2.05 | 1.30 | 0.14 | 0.72 | 0.42 | |
| 5 | MS3 | 0.20 | Flexible | 2.64 | 3.15 | 3.22 | 0.22 | 0.45 | 0.29 | |
| 6 | MS4 | 0.20 | Stiff | 3.54 | 4.04 | 4.12 | 0.23 | 0.61 | 0.38 | |
| 7 | TAFT2 | 0.20 | Flexible | 2.28 | 2.92 | 2.67 | 0.18 | 0.40 | 0.29 | |
| 8 | ELC2 | 0.20 | Stiff | 1.46 | 2.62 | 1.62 | 0.19 | 0.63 | 0.40 | |
| 9 | MS5 | 0.40 | Flexible | 3.42 | 4.88 | 5.33 | 0.38 | 0.67 | 0.60 | |
| 10 | MS6 | 0.40 | Stiff | 2.96 | 4.13 | 4.59 | 0.39 | 0.53 | 0.60 | |
| 11 | ELC | 0.40 | Flexible | 3.00 | 5.51 | 4.76 | 0.36 | 0.81 | 0.47 | |
| 12 | BONDC | 0.40 | Flexible | 2.54 | 5.26 | 3.73 | 0.32 | 0.71 | 0.40 | |
| 13 | TAFTS | 0.40 | Stiff | 4.71 | 5.43 | 4.77 | 0.36 | 0.83 | 0.63 | |
| 14 | BONDCS | 0.40 | Stiff | 2.55 | 4.30 | 3.04 | 0.32 | 0.69 | 0.64 | |
| 15 | BONDC2 | 0.40 | Flexible | 2.55 | 6.75 | 3.72 | 0.32 | 0.96 | 0.38 | |
| 16 | BONDC3 | 0.50 | Flexible | 3.75 | 10.81 | 5.47 | 0.51 | 1.12 | 0.71 | |
| 17 | BONDCH | 0.80 | Flexible | 3.14 | 10.26 | 5.50 | 0.66 | 1.43 | 1.18 | |
| 18 | BONDCSH | 0.80 | Stiff | 4.57 | 13.04 | 5.11 | 1.13 | 1.78 | 1.83 | |

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 1: MS1 0.10 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 1.45 in | Acc Top | 0.24 g |
| Disp Cent | 1.47 in | Acc Cent | 0.55 g |
| Disp Bot | 1.33 in | Acc Bot | 0.08 g |
| Peak Defl | 0.28 in | | |
| Inertia Force | 1.99 kips | Eqv Load | 120.0 lb/ft |
| Bending Mt | 73.66 kip-in | Seismic C | 0.45 |
| | | C/Acc Bot | 5.40 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 4.53 Hz | EIeqv | 1578000 kip-in2 |
| | | EmIg/EIeqv | 1.69 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0040 | 0.0027 | in |
| Faceshell Comp. Strain | 0.0005 | 0.0005 | in/in |
| Faceshell Opening | 0.0070 | 0.0046 | in |
| Curvature | 0.1700 | 0.1700 | (1/in)*10-3 |
| EI joint | | 433000 | kip-in2 |

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TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 2: MS2 0.10 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 0.29 in | Acc Top | 0.29 g |
| Disp Cent | 0.78 in | Acc Cent | 0.62 g |
| Disp Bot | 0.27 in | Acc Bot | 0.10 g |
| Peak Defl | 0.78 in | | |
| Inertia Force | 2.04 kips | Eqv Load | 120.0 lb/ft |
| Bending Mt | 73.88 kip-in | Seismic C | 0.45 |
| | | C/Acc Bot | 4.51 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 4.44 Hz | EIeqv | 568000 kip-in2 |
| | | EmIg/EIeqv | 4.70 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0154 | 0.0116 | in |
| Faceshell Comp. Strain | 0.0015 | 0.0015 | in/in |
| Faceshell Opening | 0.0263 | 0.0201 | in |
| Curvature | 1.3100 | 0.7800 | (1/in)*10-3 |
| EI joint | | 93000 | kip-in2 |

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 3: TAFT1 0.10 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 0.84 in | Acc Top | 0.13 g |
| Disp Cent | 0.88 in | Acc Cent | 0.14 g |
| Disp Bot | 0.81 in | Acc Bot | 0.07 g |
| Peak Defl | 0.16 in | | |
| Inertia Force | 0.46 kips | Eqv Load | 30.0 lb/ft |
| Bending Mt | 17.68 kip-in | Seismic C | 0.11 |
| | | C/Acc Bot | 1.55 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 3.45 Hz | EIeqv | 663000 kip-in2 |
| | | EmIg/EIeqv | 4.03 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0036 | 0.0036 | in |
| Faceshell Comp. Strain | 0.0004 | 0.0001 | in/in |
| Faceshell Opening | 0.0063 | 0.0063 | in |
| Curvature | 0.2700 | 0.2400 | (1/in)*10-3 |
| EI joint | | 73000 | kip-in2 |

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TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 4: ELC1 0.10 EPA

| | |
|---|---|
| Wall Weight: 5.47 kips | H/t Ratio: 20 |
| Vert. Reinf: 2 # 5 | Grouting : Full |
| Dead Load: 300 lb/ft | Splices : No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 1.30 in | Acc Top | 0.42 g |
| Disp Cent | 2.05 in | Acc Cent | 0.72 g |
| Disp Bot | 1.25 in | Acc Bot | 0.14 g |
| Peak Defl | 0.98 in | | |
| Inertia Force | 1.96 kips | Eqv Load | 130.0 lb/ft |
| Bending Mt | 77.57 kip-in | Seismic C | 0.47 |
| | | C/Acc Bot | 3.38 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 2.62 Hz | EIeqv | 475000 kip-in2 |
| | | EmIg/EIeqv | 5.62 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0182 | 0.0149 | in |
| Faceshell Comp. Strain | 0.0020 | 0.0020 | in/in |
| Faceshell Opening | 0.0330 | 0.0259 | in |
| Curvature | 1.6500 | 1.0000 | (1/in)*10-3 |
| EI joint | | 77000 | kip-in2 |

CES October 9, 1989 10:13:38 am

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 5: MS3 0.20 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 3.22 in | Acc Top | 0.29 g |
| Disp Cent | 3.15 in | Acc Cent | 0.45 g |
| Disp Bot | 2.64 in | Acc Bot | 0.22 g |
| Peak Defl | 0.72 in | | |
| Inertia Force | 1.21 kips | Eqv Load | 80.0 lb/ft |
| Bending Mt | 50.09 kip-in | Seismic C | 0.31 |
| | | C/Acc Bot | 1.39 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 2.44 Hz | EIeqv | 417000 kip-in2 |
| | | EmIg/EIeqv | 6.40 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0129 | 0.0107 | in |
| Faceshell Comp. Strain | 0.0014 | 0.0014 | in/in |
| Faceshell Opening | 0.0232 | 0.0185 | in |
| Curvature | 1.1500 | 0.7100 | (1/in)*10-3 |
| EI joint | | 70000 | kip-in2 |

CES October 9, 1989 10:13:50 am

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 6: MS4 0.20 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 4.12 in | Acc Top | 0.38 g |
| Disp Cent | 4.04 in | Acc Cent | 0.61 g |
| Disp Bot | 3.54 in | Acc Bot | 0.23 g |
| Peak Defl | 1.01 in | | |
| Inertia Force | 1.70 kips | Eqv Load | 110.0 lb/ft |
| Bending Mt | 67.73 kip-in | Seismic C | 0.41 |
| | | C/Acc Bot | 1.79 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 2.33 Hz | EIeqv | 402000 kip-in2 |
| | | EmIg/EIeqv | 6.64 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0160 | 0.0138 | in |
| Faceshell Comp. Strain | 0.0018 | 0.0018 | in/in |
| Faceshell Opening | 0.0285 | 0.0239 | in |
| Curvature | 1.4300 | 0.9200 | (1/in)*10-3 |
| EI joint | | 74000 | kip-in2 |

CES October 9, 1989 10:13:57 am

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 7: TAFT2 0.20 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 2.67 in | Acc Top | 0.29 g |
| Disp Cent | 2.92 in | Acc Cent | 0.40 g |
| Disp Bot | 2.28 in | Acc Bot | 0.18 g |
| Peak Defl | 0.80 in | | |
| Inertia Force | 1.40 kips | Eqv Load | 80.0 lb/ft |
| Bending Mt | 50.60 kip-in | Seismic C | 0.31 |
| | | C/Acc Bot | 1.71 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 2.32 Hz | EIeqv | 380000 kip-in2 |
| | | EmIg/EIeqv | 7.02 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0129 | 0.0108 | in |
| Faceshell Comp. Strain | 0.0014 | 0.0014 | in/in |
| Faceshell Opening | 0.0224 | 0.0185 | in |
| Curvature | 1.0700 | 0.7000 | (1/in)*10-3 |
| EI joint | | 71000 | kip-in2 |

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 8: ELC2 0.20 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 1.62 in | Acc Top | 0.40 g |
| Disp Cent | 2.62 in | Acc Cent | 0.63 g |
| Disp Bot | 1.46 in | Acc Bot | 0.19 g |
| Peak Defl | 1.47 in | | |
| Inertia Force | 1.75 kips | Eqv Load | 120.0 lb/ft |
| Bending Mt | 71.86 kip-in | Seismic C | 0.44 |
| | | C/Acc Bot | 2.30 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 2.14 Hz | EIeqv | 293000 kip-in2 |
| | | EmIg/EIeqv | 9.11 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0195 | 0.0133 | in |
| Faceshell Comp. Strain | 0.0021 | 0.0021 | in/in |
| Faceshell Opening | 0.0340 | 0.0230 | in |
| Curvature | 1.6500 | 0.8800 | (1/in)*10-3 |
| EI joint | | 81000 | kip-in2 |

CES October 9, 1989 10:14:12 am

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 9: MS5 0.40 EPA

| | |
|---|---|
| Wall Weight: 5.47 kips | H/t Ratio: 20 |
| Vert. Reinf: 2 # 5 | Grouting : Full |
| Dead Load: 300 lb/ft | Splices : No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 5.33 in | Acc Top | 0.60 g |
| Disp Cent | 4.88 in | Acc Cent | 0.67 g |
| Disp Bot | 3.42 in | Acc Bot | 0.38 g |
| Peak Defl | 1.74 in | | |
| Inertia Force | 1.92 kips | Eqv Load | 130.0 lb/ft |
| Bending Mt | 78.05 kip-in | Seismic C | 0.48 |
| | | C/Acc Bot | 1.25 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 1.74 Hz | EIeqv | 269000 kip-in2 |
| | | EmIg/EIeqv | 9.92 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0172 | 0.0163 | in |
| Faceshell Comp. Strain | 0.0019 | 0.0019 | in/in |
| Faceshell Opening | 0.0301 | 0.0281 | in |
| Curvature | 1.4500 | 1.0700 | (1/in)*10-3 |
| EI joint | | 73000 | kip-in2 |

CES October 9, 1989 10:14:19 am

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 10: MS6 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 4.59 in | Acc Top | 0.60 g |
| Disp Cent | 4.13 in | Acc Cent | 0.53 g |
| Disp Bot | 2.96 in | Acc Bot | 0.39 g |
| Peak Defl | 1.29 in | | |
| Inertia Force | 1.40 kips | Eqv Load | 90.0 lb/ft |
| Bending Mt | 51.30 kip-in | Seismic C | 0.31 |
| | | C/Acc Bot | 0.80 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 1.83 Hz | EIeqv | 239000 kip-in2 |
| | | EmIg/EIeqv | 11.17 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0145 | 0.0112 | in |
| Faceshell Comp. Strain | 0.0016 | 0.0016 | in/in |
| Faceshell Opening | 0.0253 | 0.0191 | in |
| Curvature | 1.1700 | 0.7300 | (1/in)*10-3 |
| EI joint | | 68000 | kip-in2 |

CES October 9, 1989 10:14:27 am

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 11: ELC 0.40 EPA

| | |
|---|---|
| Wall Weight: 5.47 kips | H/t Ratio: 20 |
| Vert. Reinf: 2 # 5 | Grouting : Full |
| Dead Load: 300 lb/ft | Splices : No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 4.76 in | Acc Top | 0.47 g |
| Disp Cent | 5.51 in | Acc Cent | 0.81 g |
| Disp Bot | 3.00 in | Acc Bot | 0.36 g |
| Peak Defl | 2.07 in | | |
| Inertia Force | 2.24 kips | Eqv Load | 140.0 lb/ft |
| Bending Mt | 86.48 kip-in | Seismic C | 0.53 |
| | | C/Acc Bot | 1.46 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 1.92 Hz | EIeqv | 251000 kip-in2 |
| | | EmIg/EIeqv | 10.63 |

### LOCAL RESPONSE

| | Peak | Joint 28 | |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0210 | 0.0161 | in |
| Faceshell Comp. Strain | 0.0018 | 0.0018 | in/in |
| Faceshell Opening | 0.0444 | 0.0278 | in |
| Curvature | 2.1300 | 1.0600 | (1/in)*10-3 |
| EI joint | | 78000 | kip-in2 |

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 12: BONDC 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 3.73 in | Acc Top | 0.40 g |
| Disp Cent | 5.26 in | Acc Cent | 0.71 g |
| Disp Bot | 2.54 in | Acc Bot | 0.32 g |
| Peak Defl | 2.58 in | | |
| Inertia Force | 2.52 kips | Eqv Load | 160.0 lb/ft |
| Bending Mt | 93.05 kip-in | Seismic C | 0.57 |
| | | C/Acc Bot | 1.77 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 1.74 Hz | EIeqv | 216000 kip-in2 |
| | | EmIg/EIeqv | 12.36 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0262 | 0.0190 | in |
| Faceshell Comp. Strain | 0.0024 | 0.0024 | in/in |
| Faceshell Opening | 0.0560 | 0.0330 | in |
| Curvature | 2.7100 | 1.2700 | (1/in)*10-3 |
| EI joint | | 72000 | kip-in2 |

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 13: TAFTS 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 4.77 in | Acc Top | 0.63 g |
| Disp Cent | 5.43 in | Acc Cent | 0.83 g |
| Disp Bot | 4.71 in | Acc Bot | 0.36 g |
| Peak Defl | 3.06 in | | |
| Inertia Force | 2.53 kips | Eqv Load | 170.0 lb/ft |
| Bending Mt | 102.12 kip-in | Seismic C | 0.62 |
| | | C/Acc Bot | 1.73 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 1.22 Hz | EIeqv | 200000 kip-in2 |
| | | EmIg/EIeqv | 13.35 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0309 | 0.0211 | in |
| Faceshell Comp. Strain | 0.0025 | 0.0025 | in/in |
| Faceshell Opening | 0.0658 | 0.0372 | in |
| Curvature | 3.1700 | 1.4700 | (1/in)*10-3 |
| EI joint | | 69000 | kip-in2 |

CES October 9, 1989 10:14:49 am

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 14: BONDCS 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 3.04 in | Acc Top | 0.64 g |
| Disp Cent | 4.30 in | Acc Cent | 0.69 g |
| Disp Bot | 2.55 in | Acc Bot | 0.32 g |
| Peak Defl | 3.54 in | | |
| Inertia Force | 2.28 kips | Eqv Load | 140.0 lb/ft |
| Bending Mt | 86.51 kip-in | Seismic C | 0.53 |
| | | C/Acc Bot | 1.65 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 1.37 Hz | EIeqv | 147000 kip-in2 |
| | | EmIg/EIeqv | 18.16 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0324 | 0.0202 | in |
| Faceshell Comp. Strain | 0.0022 | 0.0022 | in/in |
| Faceshell Opening | 0.0670 | 0.0358 | in |
| Curvature | 3.1500 | 1.4200 | (1/in)*10-3 |
| EI joint | | 61000 | kip-in2 |

CES October 9, 1989 10:14:56 am

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 15: BONDC2 0.40 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 3.72 in | Acc Top | 0.38 g |
| Disp Cent | 6.75 in | Acc Cent | 0.96 g |
| Disp Bot | 2.55 in | Acc Bot | 0.32 g |
| Peak Defl | 5.34 in | | |
| Inertia Force | 3.05 kips | Eqv Load | 200.0 lb/ft |
| Bending Mt | 120.38 kip-in | Seismic C | 0.73 |
| | | C/Acc Bot | 2.29 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 1.16 Hz | EIeqv | 135000 kip-in2 |
| | | EmIg/EIeqv | 19.77 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0415 | 0.0239 | in |
| Faceshell Comp. Strain | 0.0025 | 0.0021 | in/in |
| Faceshell Opening | 0.0869 | 0.0478 | in |
| Curvature | 4.1200 | 2.1800 | (1/in)*10-3 |
| EI joint | | 55000 | kip-in2 |

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 16: BONDC3 0.50 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 5.47 in | Acc Top | 0.71 g |
| Disp Cent | 10.81 in | Acc Cent | 1.12 g |
| Disp Bot | 3.75 in | Acc Bot | 0.51 g |
| Peak Defl | 9.61 in | | |
| Inertia Force | 3.05 kips | Eqv Load | 210.0 lb/ft |
| Bending Mt | 125.41 kip-in | Seismic C | 0.76 |
| | | C/Acc Bot | 1.50 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 0.95 Hz | EIeqv | 78000 kip-in2 |
| | | EmIg/EIeqv | 34.22 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0587 | 0.0406 | in |
| Faceshell Comp. Strain | 0.0047 | 0.0029 | in/in |
| Faceshell Opening | 0.1200 | 0.0857 | in |
| Curvature | 5.8800 | 4.1000 | (1/in)*10-3 |
| EI joint | | 30000 | kip-in2 |

CES October 9, 1989 10:15:11 am

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 17: BONDCH 0.80 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

| | | | |
|---|---|---|---|
| Disp Top | 5.50 in | Acc Top | 1.18 g |
| Disp Cent | 10.26 in | Acc Cent | 1.43 g |
| Disp Bot | 3.14 in | Acc Bot | 0.66 g |
| Peak Defl | 9.69 in | | |
| Inertia Force | 3.43 kips | Eqv Load | 240.0 lb/ft |
| Bending Mt | 146.46 kip-in | Seismic C | 0.89 |
| | | C/Acc Bot | 1.35 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 0.82 Hz | EIeqv | 91000 kip-in2 |
| | | EmIg/EIeqv | 29.33 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0589 | 0.0378 | in |
| Faceshell Comp. Strain | 0.0045 | 0.0020 | in/in |
| Faceshell Opening | 0.1200 | 0.0793 | in |
| Curvature | 5.6700 | 3.8500 | (1/in)*10-3 |
| EI joint | | 36000 | kip-in2 |

CES October 9, 1989 10:15:18 am

TCCMAR PROJECT

WALL No 6 DYNAMIC TEST Run No 18: BONDCSH 0.80 EPA

| | | | |
|---|---|---|---|
| Wall Weight: | 5.47 kips | H/t Ratio: | 20 |
| Vert. Reinf: | 2 # 5 | Grouting : | Full |
| Dead Load: | 300 lb/ft | Splices : | No |

## SUMMARY OF EXTREME VALUES

### GLOBAL WALL RESPONSE

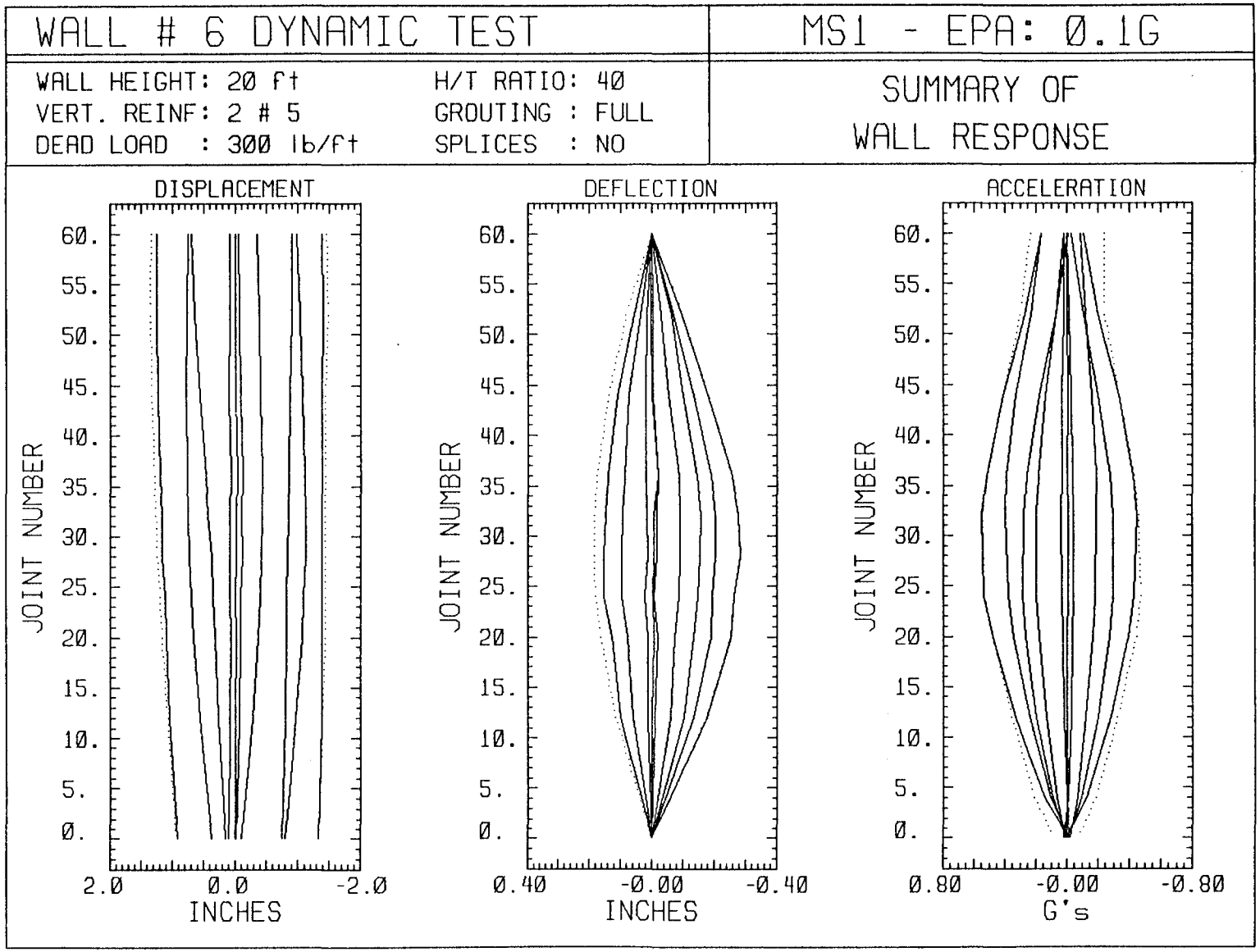
| | | | |
|---|---|---|---|
| Disp Top | 5.11 in | Acc Top | 1.83 g |
| Disp Cent | 13.04 in | Acc Cent | 1.78 g |
| Disp Bot | 4.57 in | Acc Bot | 1.13 g |
| Peak Defl | 12.86 in | | |
| Inertia Force | 2.72 kips | Eqv Load | 200.0 lb/ft |
| Bending Mt | 117.52 kip-in | Seismic C | 0.72 |
| | | C/Acc Bot | 0.63 |

### MATERIAL & MECHANICAL PROPERTIES

| | | | |
|---|---|---|---|
| f'm | 5350 psi | Em (Code) | 4010 ksi |
| Ig | 666 in4 | EmIg | 2669000 kip-in2 |
| Avg Freq | 0.70 Hz | EIeqv | 55000 kip-in2 |
| | | EmIg/EIeqv | 48.53 |

### LOCAL RESPONSE

| | Peak | Joint | 28 |
|---|---|---|---|
| Rebar Strain | | | in/in |
| Strain Ductility | 0.00 | 0.00 | in |
| Avg Joint Opening | 0.0896 | 0.0463 | in |
| Faceshell Comp. Strain | 0.0053 | 0.0026 | in/in |
| Faceshell Opening | 0.1900 | 0.0970 | in |
| Curvature | 8.7500 | 4.8600 | (1/in)*10-3 |
| EI joint | | 22000 | kip-in2 |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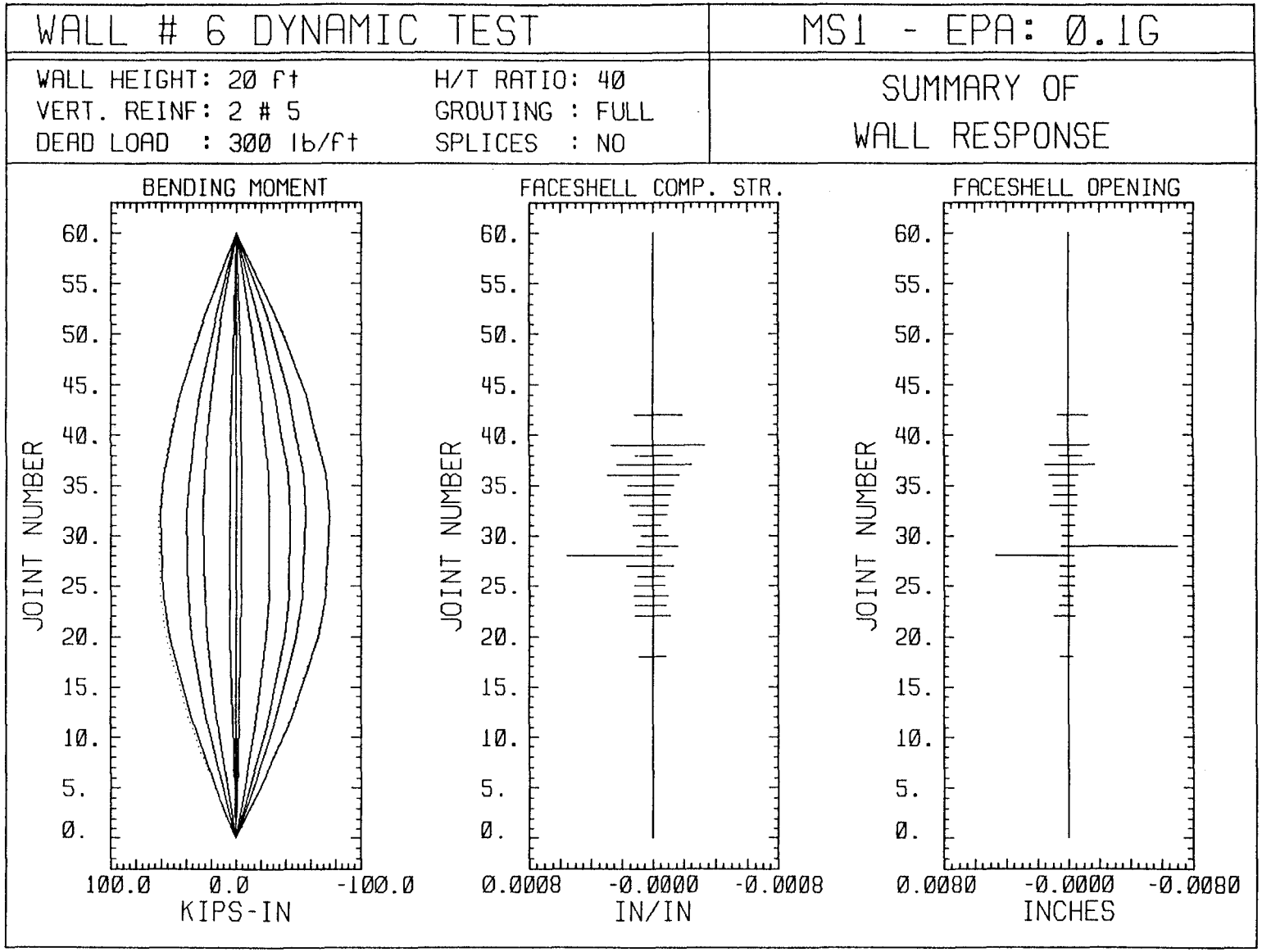
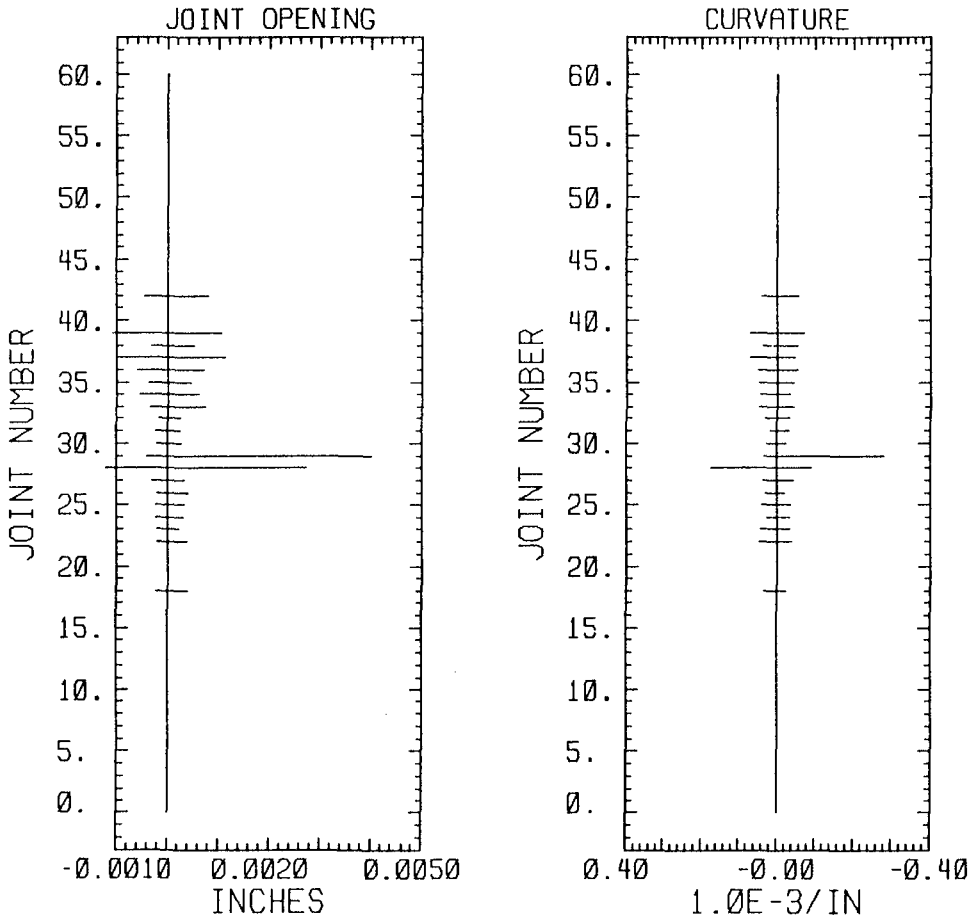
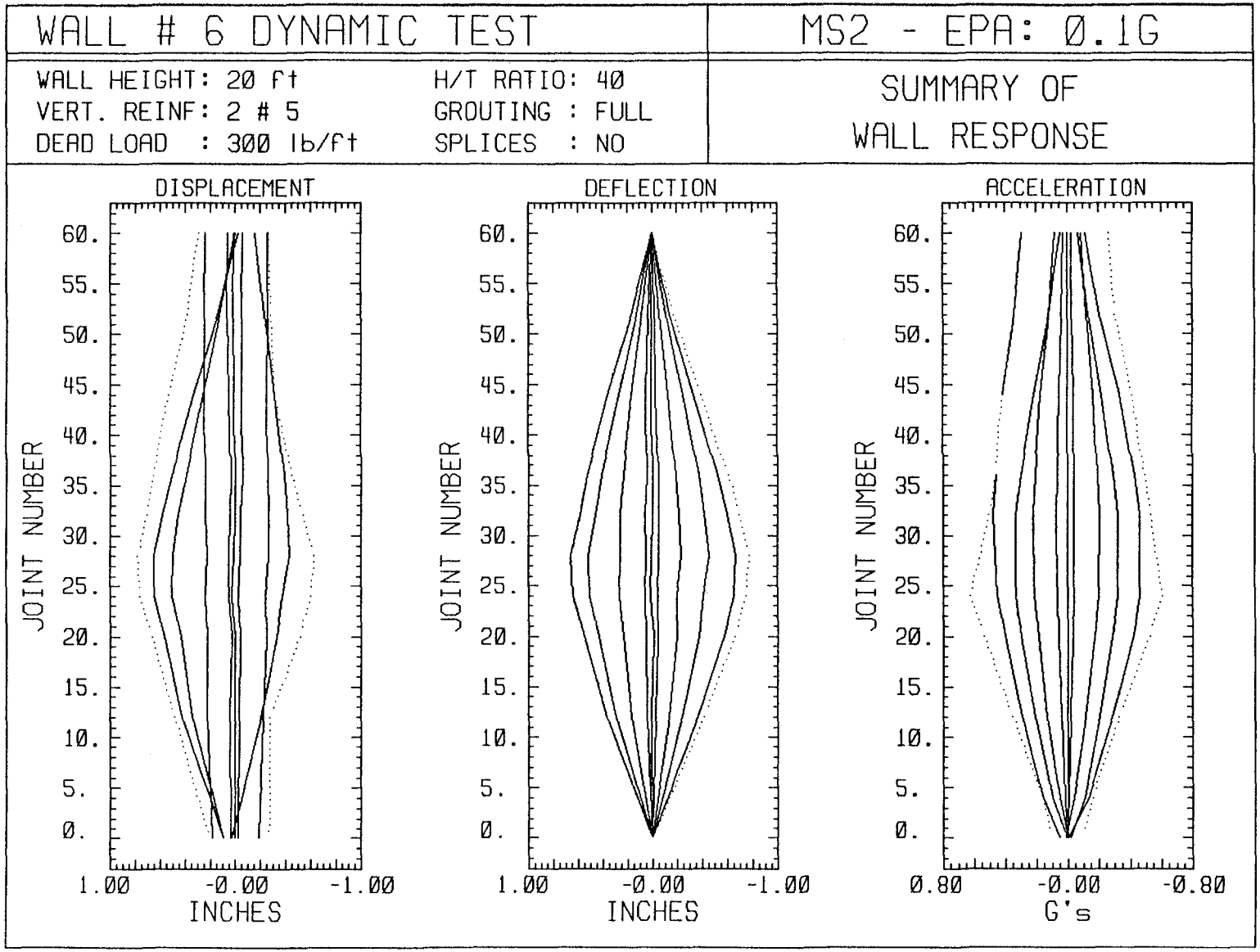
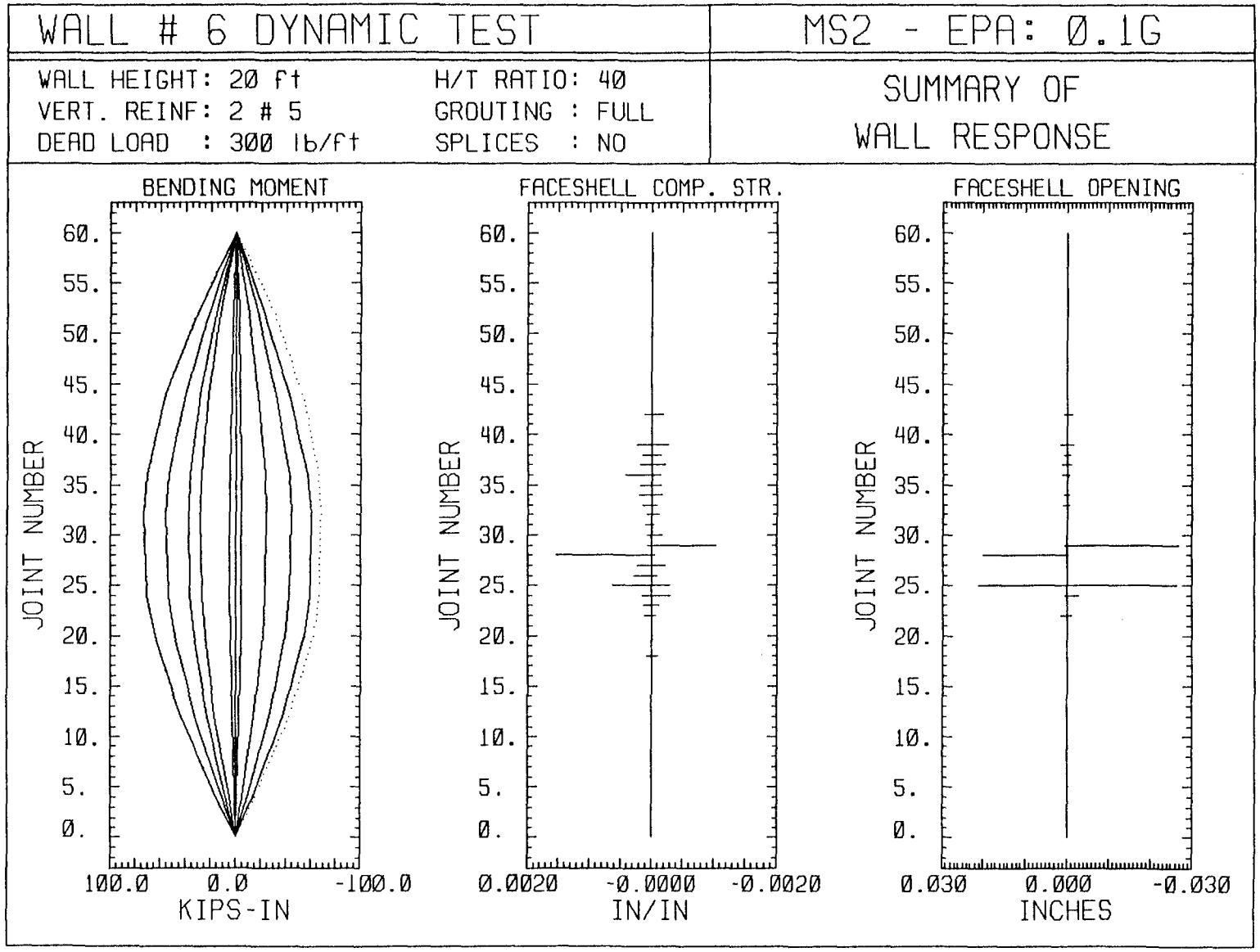
MS1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
2.0
0.0
-2.0
INCHES
0.40
-0.00
-0.40
INCHES
0.80
-0.00
-0.80
G's


WALL # 6 DYNAMIC TEST
MS1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
FACESHELL COMP. STR.
0.0008
-0.0000
-0.0008
IN/IN
FACESHELL OPENING
0.0080
-0.0000
-0.0080
INCHES

| WALL # 6 DYNAMIC TEST | | MSI - EPA: 0.1G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | SUMMARY OF |
| VERT. REINF: 2 # 5 | GROUTING : FULL | WALL RESPONSE |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |




WALL # 6 DYNAMIC TEST
MS2 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
1.00
-0.00
-1.00
INCHES
0.80
-0.80
G's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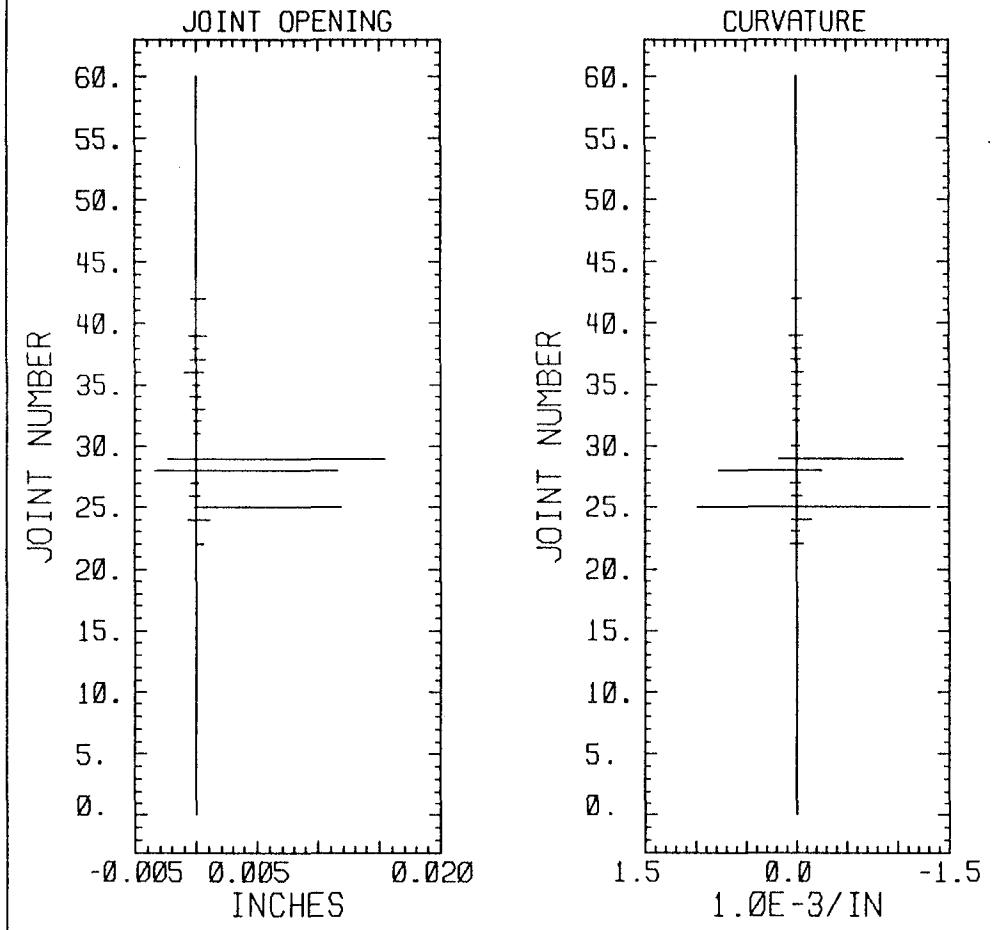
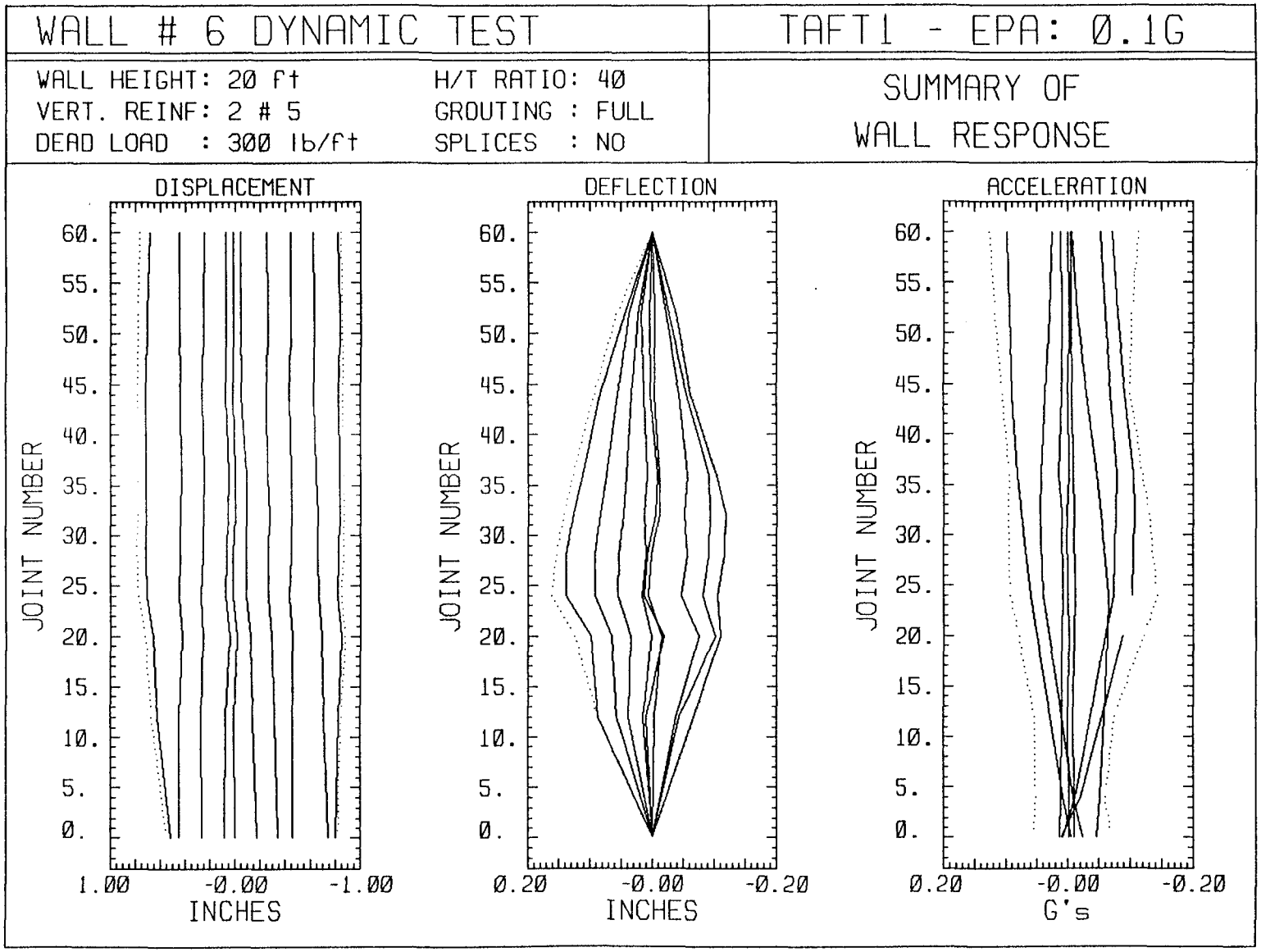
MS2 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
FACESHELL COMP. STR.
0.0020
-0.0000
-0.0020
IN/IN
FACESHELL OPENING
0.030
0.000
-0.030
INCHES

| WALL # 6 DYNAMIC TEST | | MS2 - EPA: 0.1G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | SUMMARY OF |
| VERT. REINF: 2 # 5 | GROUTING : FULL | WALL RESPONSE |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

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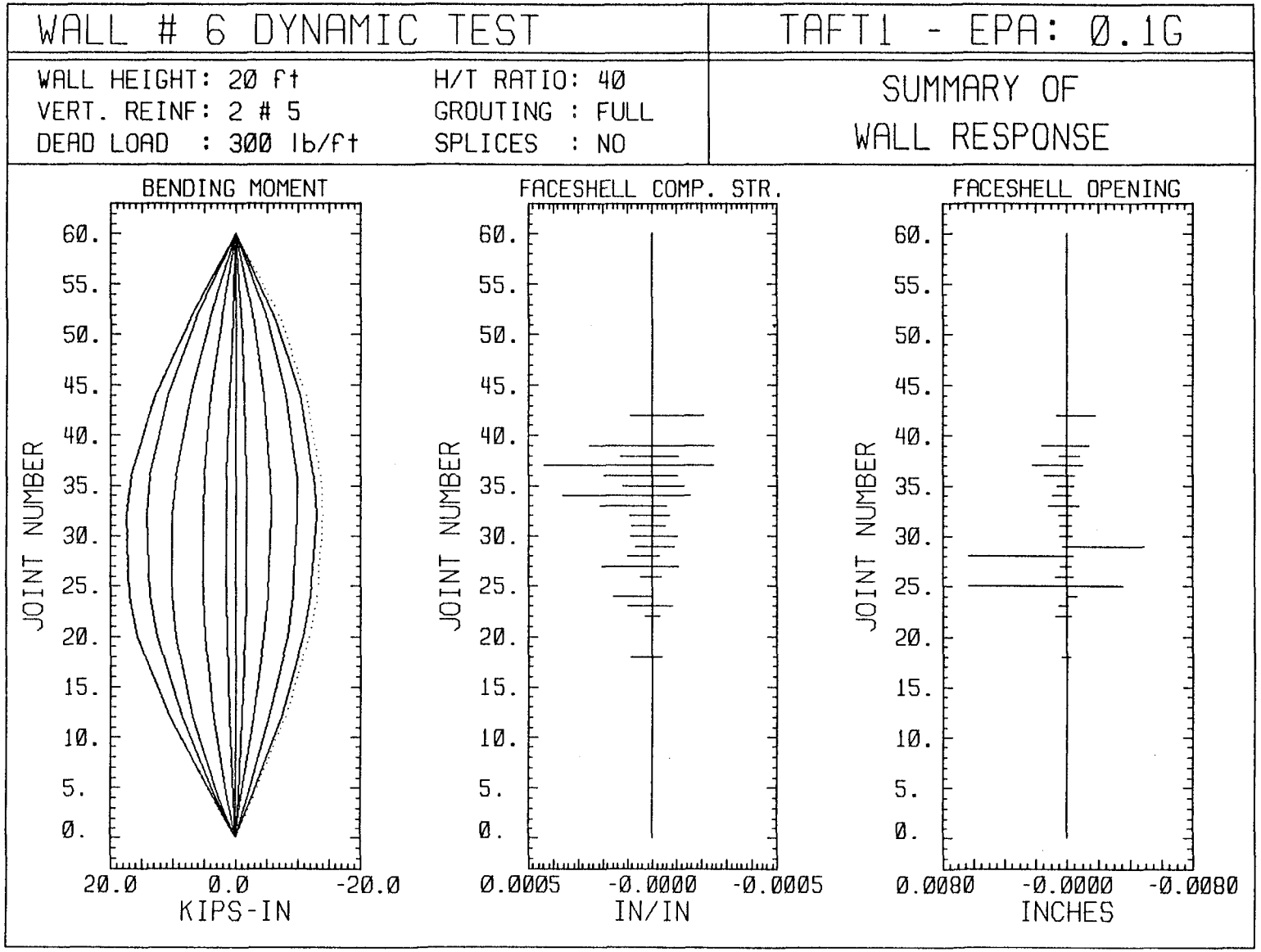
TAFTI - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
1.00
-0.00
-1.00
0.20
-0.00
-0.20
INCHES
G's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TAFT1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
20.0
0.0
-20.0
KIPS-IN
FACESHELL COMP. STR.
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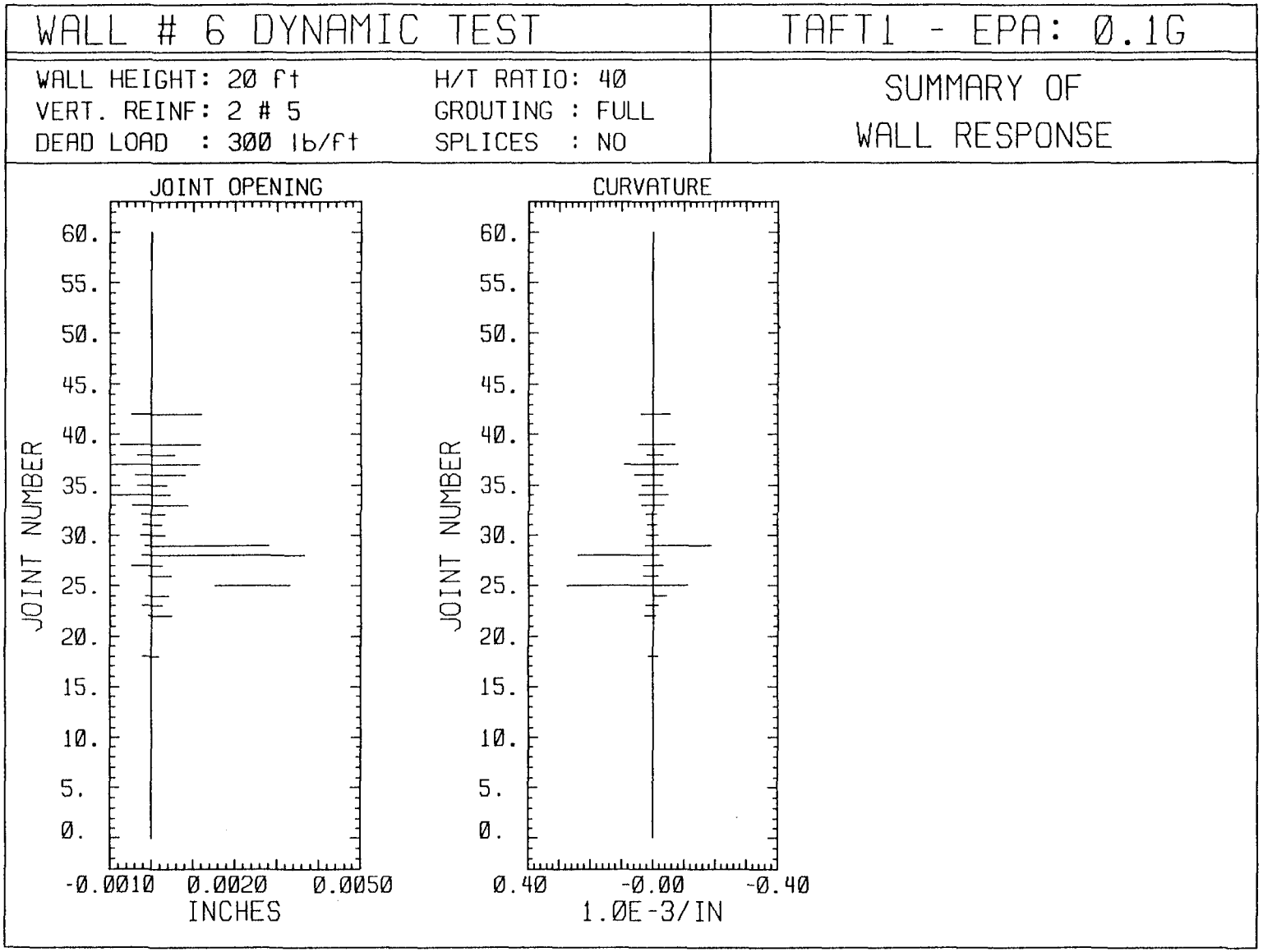
-0.0005
IN/IN
FACESHELL OPENING
0.0080
-0.0000
-0.0080
INCHES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TAFT1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
JOINT OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
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0.0020
0.0050
INCHES
CURVATURE
JOINT NUMBER
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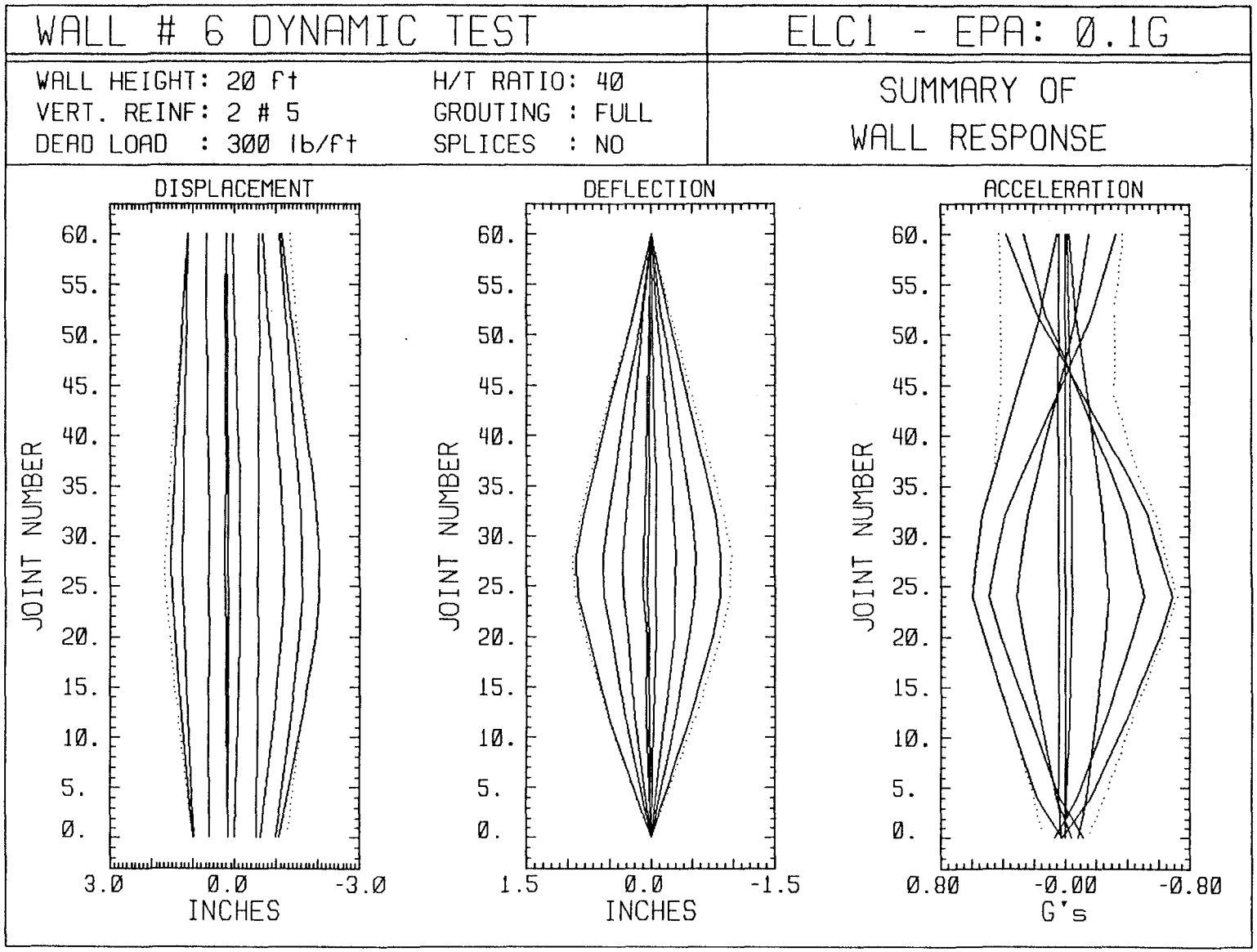
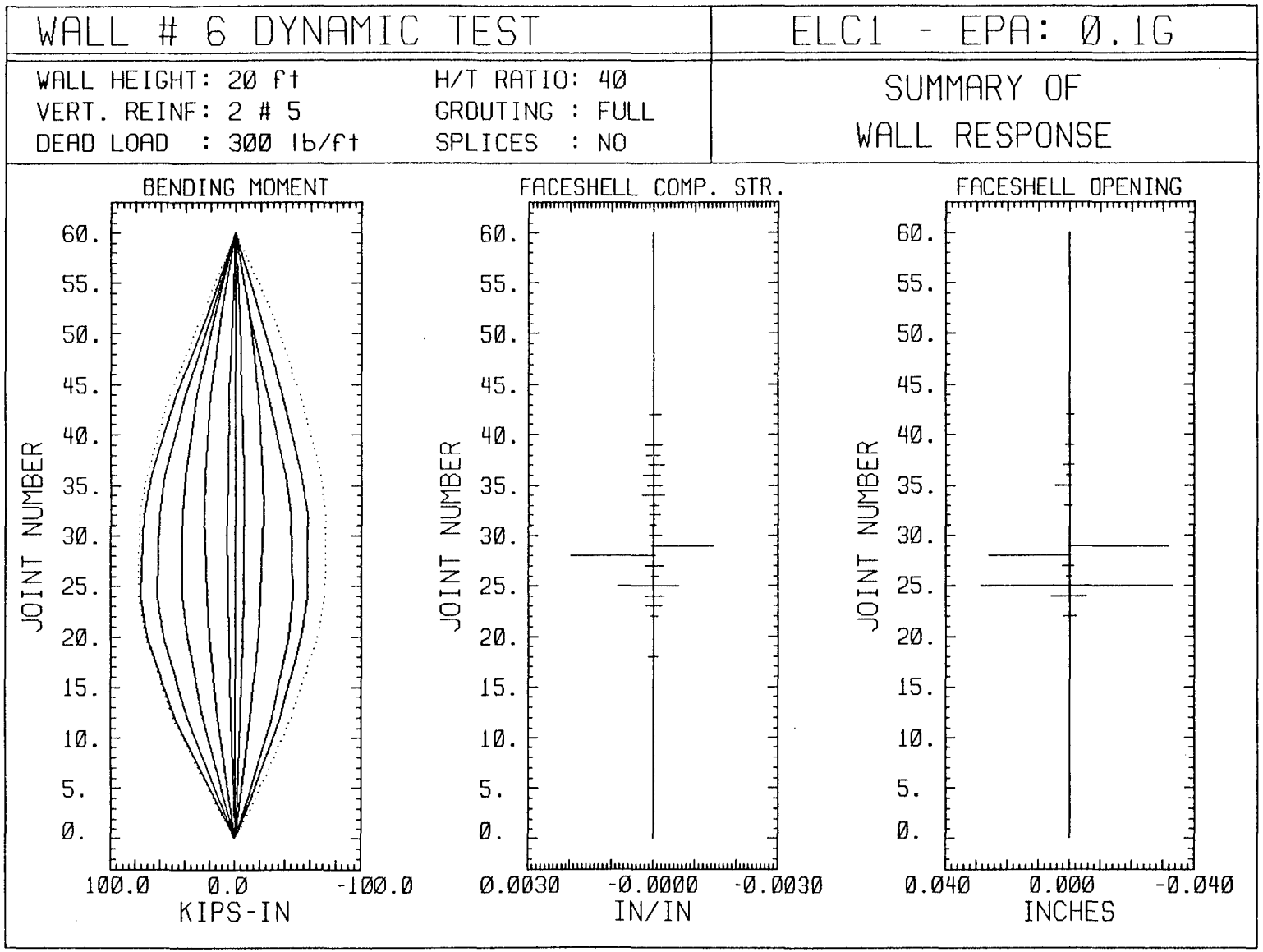
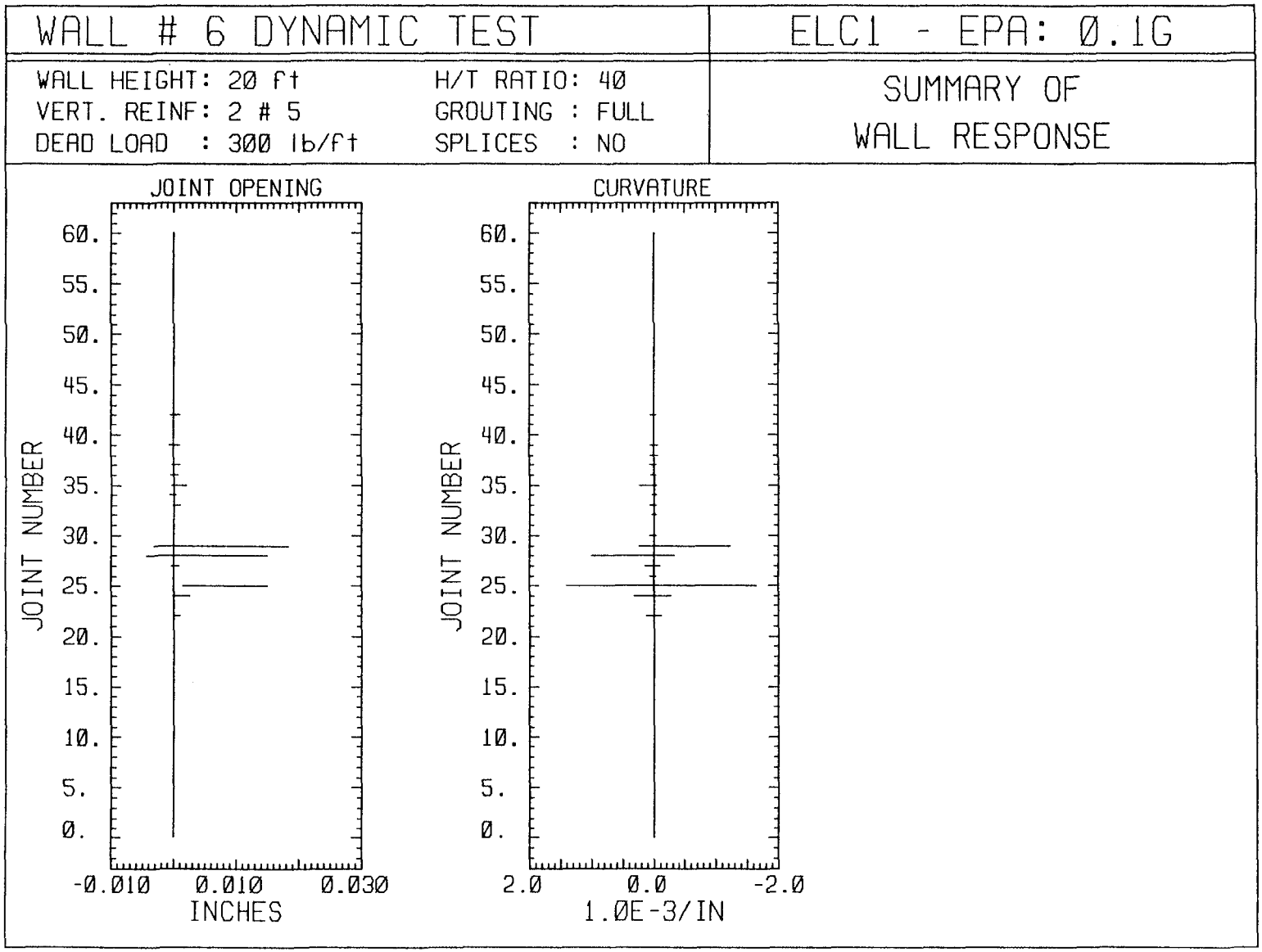
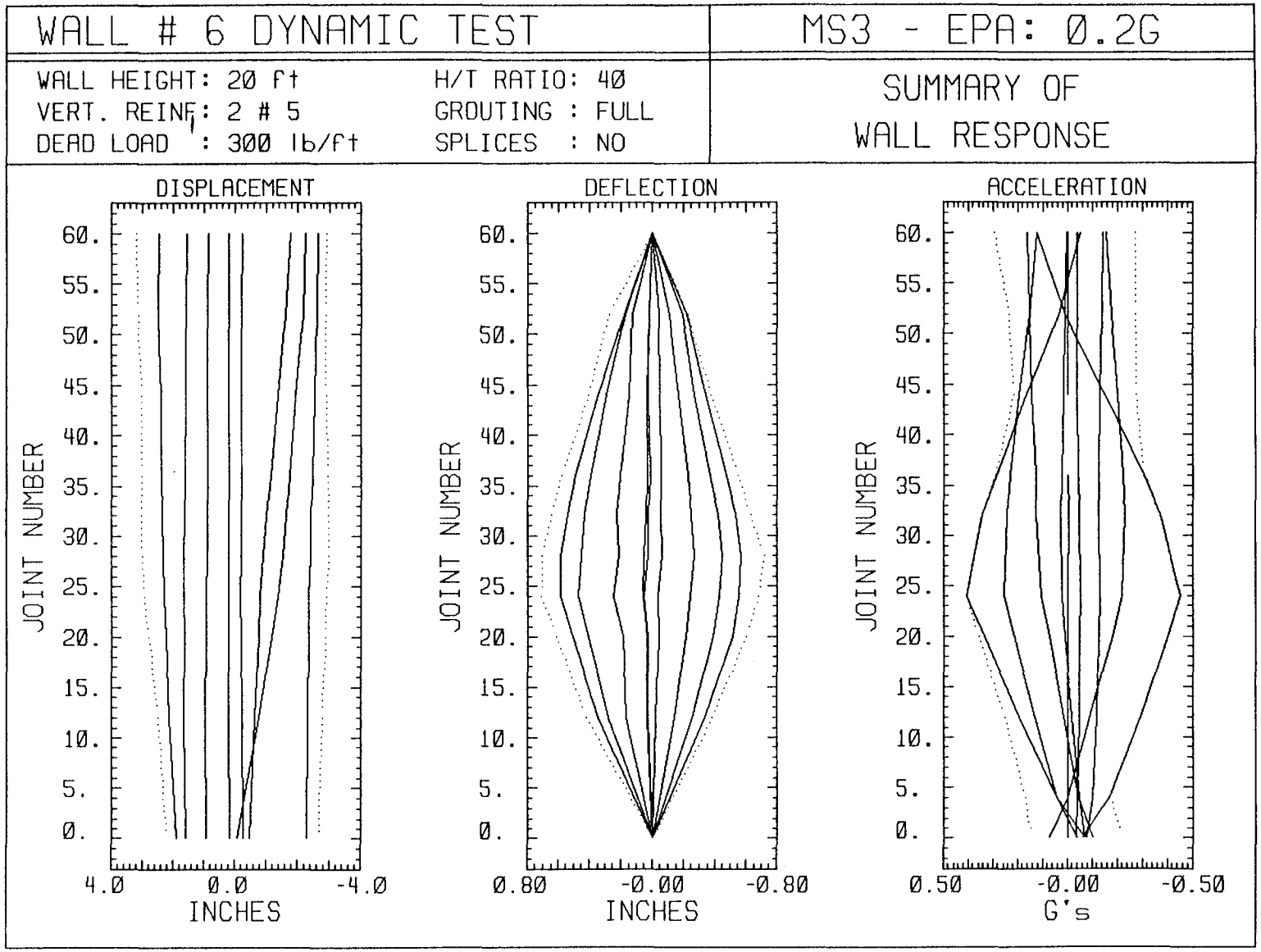
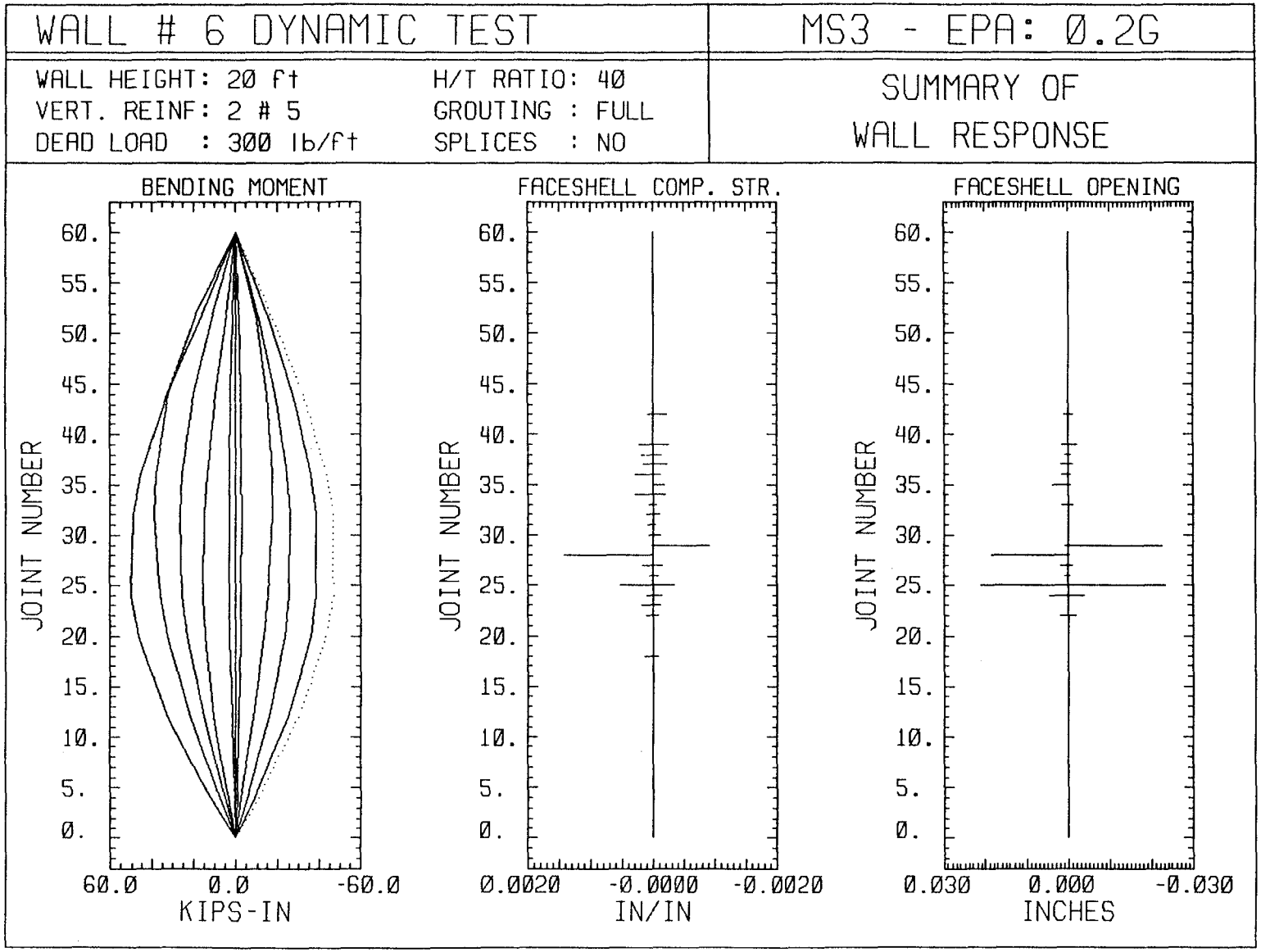
-0.40
1.0E-3/IN


WALL # 6 DYNAMIC TEST
ELC1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
3.0
0.0
-3.0
INCHES
1.5
0.0
-1.5
INCHES
0.80
-0.00
-0.80
G's

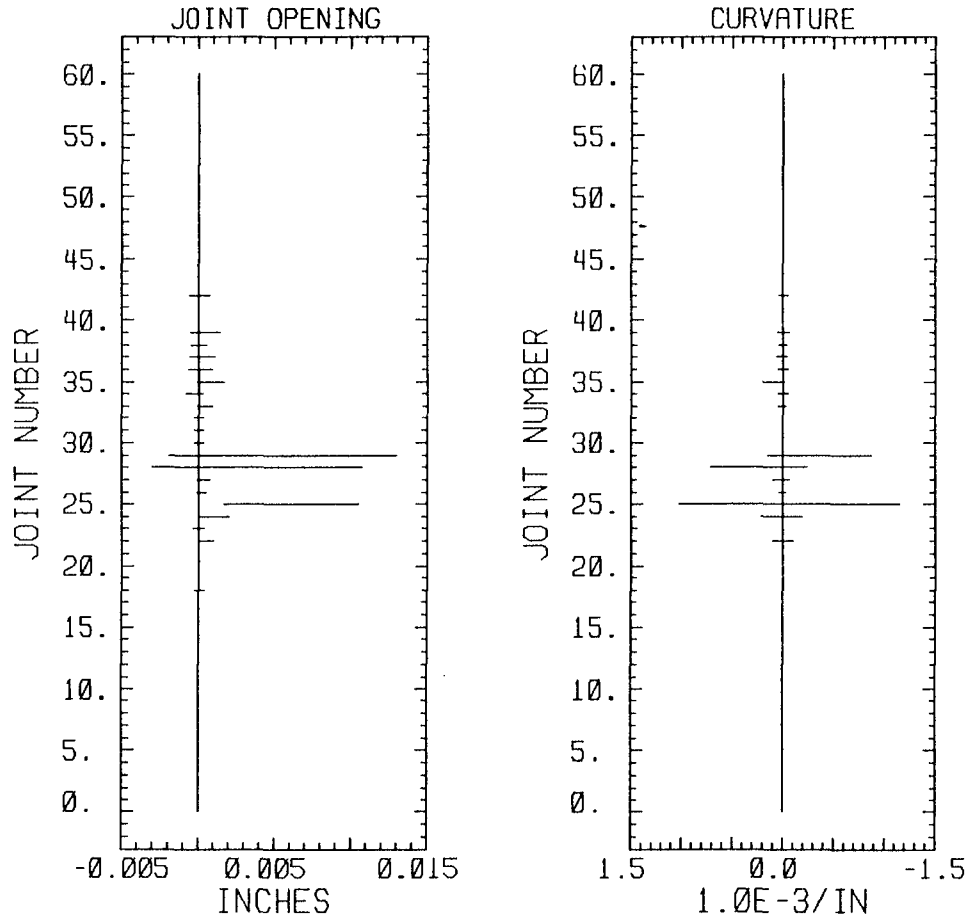

WALL # 6 DYNAMIC TEST
ELC1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
FACESHELL COMP. STR.
JOINT NUMBER
0.0030
-0.0000
-0.0030
IN/IN
FACESHELL OPENING
JOINT NUMBER
0.040
0.000
-0.040
INCHES

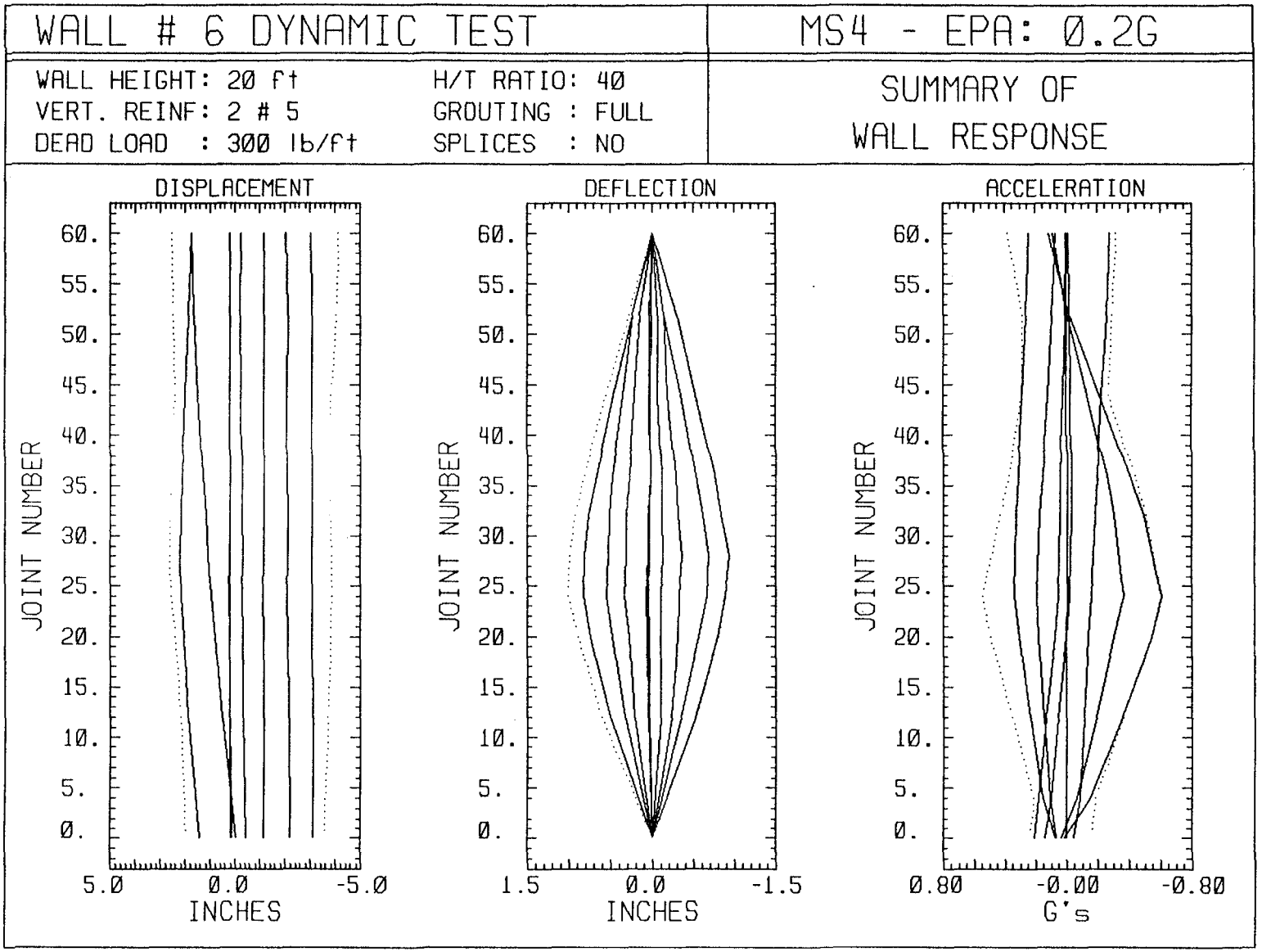

WALL # 6 DYNAMIC TEST
ELC1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
JOINT OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
-0.010
0.010
0.030
INCHES
CURVATURE
JOINT NUMBER
2.0
0.0
-2.0
1.0E-3/IN

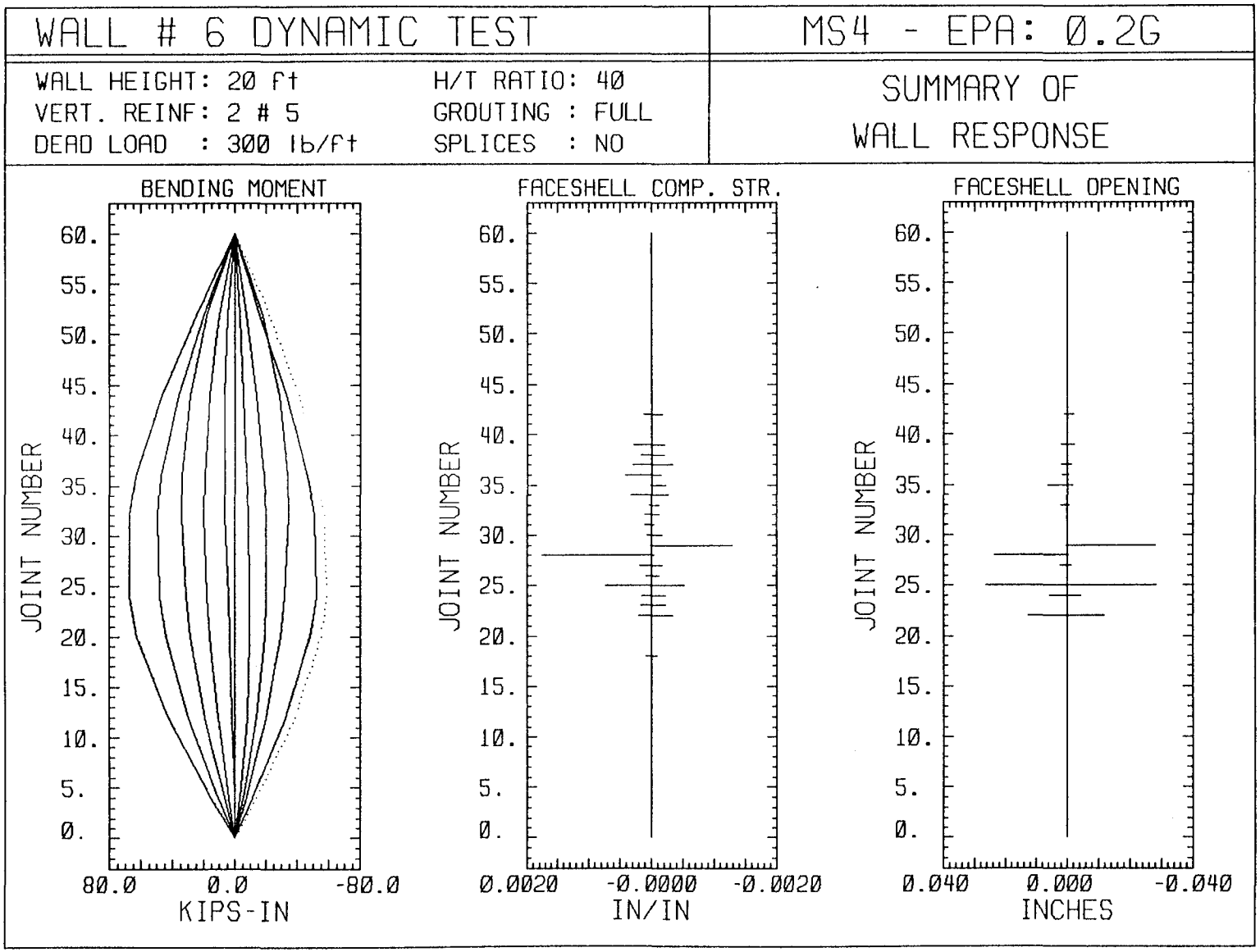

WALL # 6 DYNAMIC TEST
MS3 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
4.0
0.0
-4.0
INCHES
0.80
-0.00
-0.80
INCHES
0.50
-0.00
-0.50
G's


WALL # 6 DYNAMIC TEST
MS3 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
60.0
0.0
-60.0
KIPS-IN
FACESHELL COMP. STR.
JOINT NUMBER
0.0020
-0.0000
-0.0020
IN/IN
FACESHELL OPENING
JOINT NUMBER
0.030
0.000
-0.030
INCHES

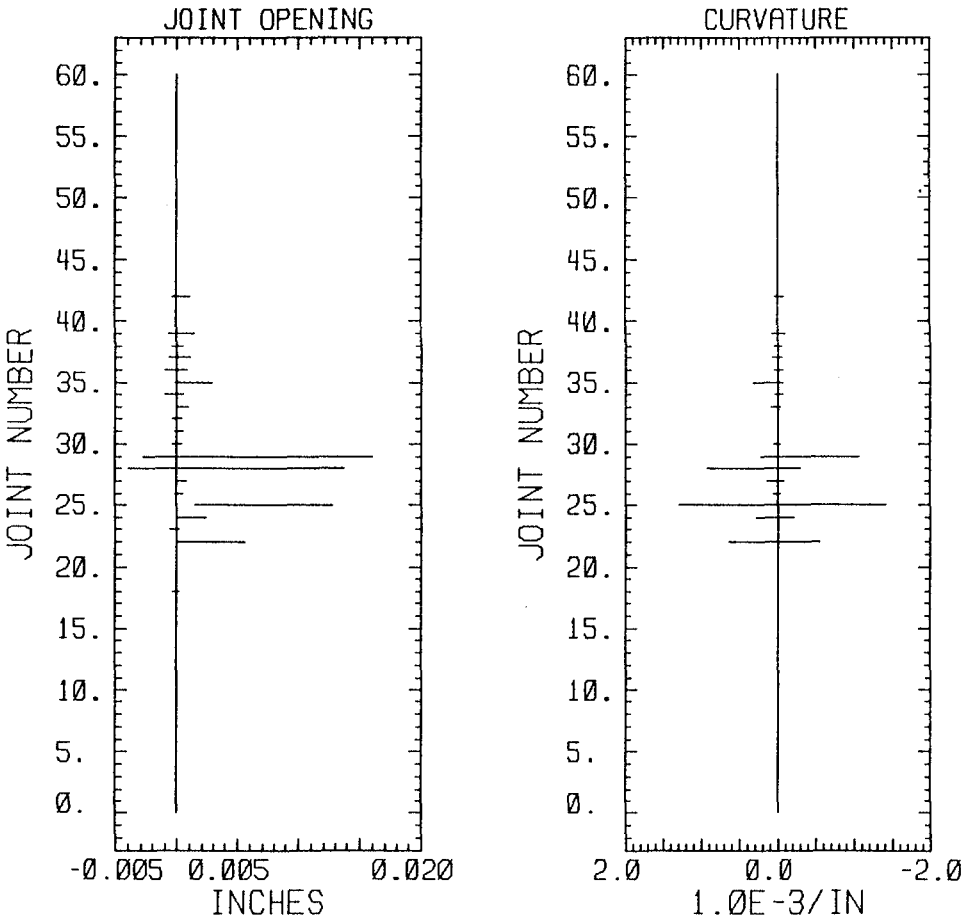
| WALL # 6 DYNAMIC TEST | | MS3 - EPA: 0.2G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 300 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | SUMMARY OF<br>WALL RESPONSE |

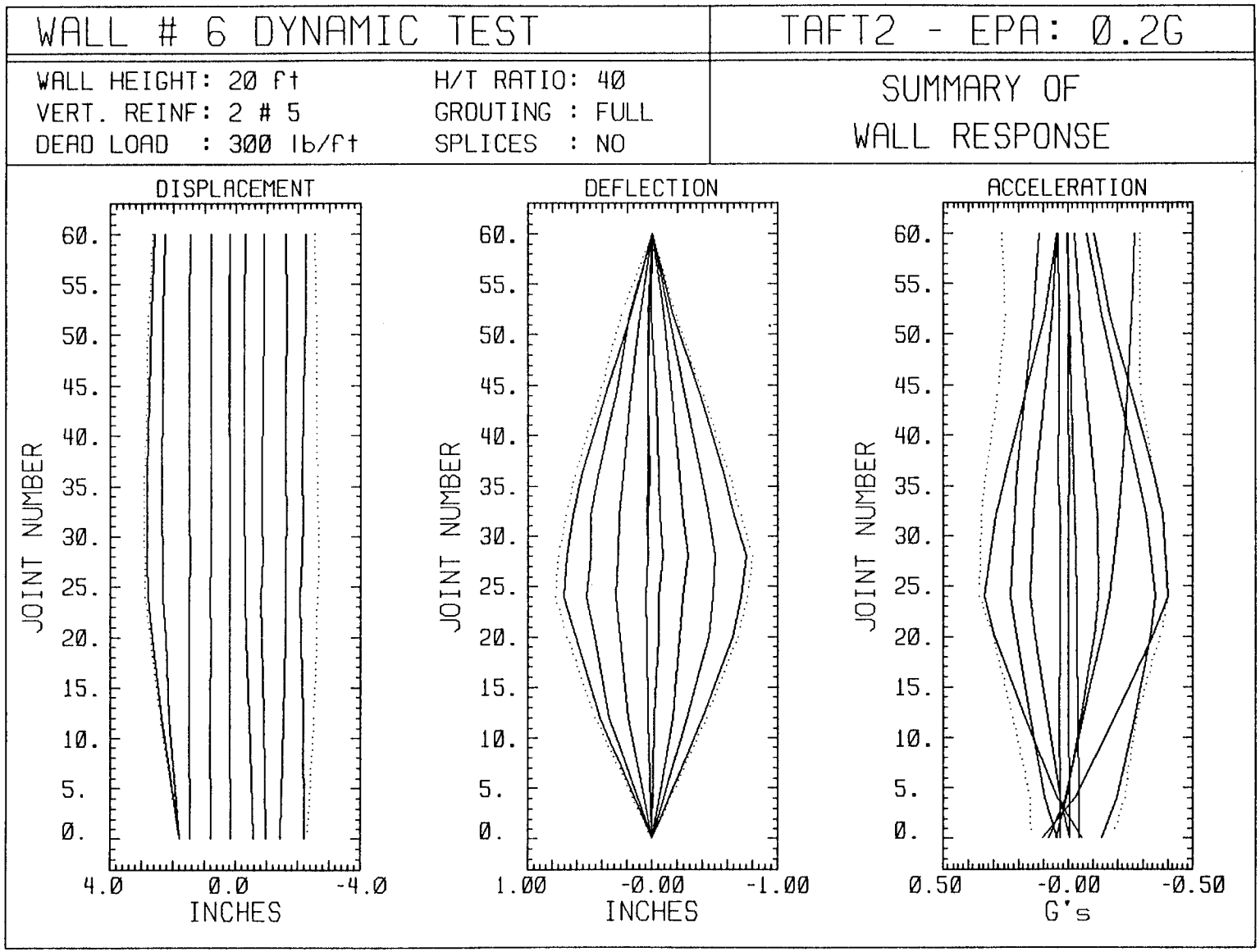


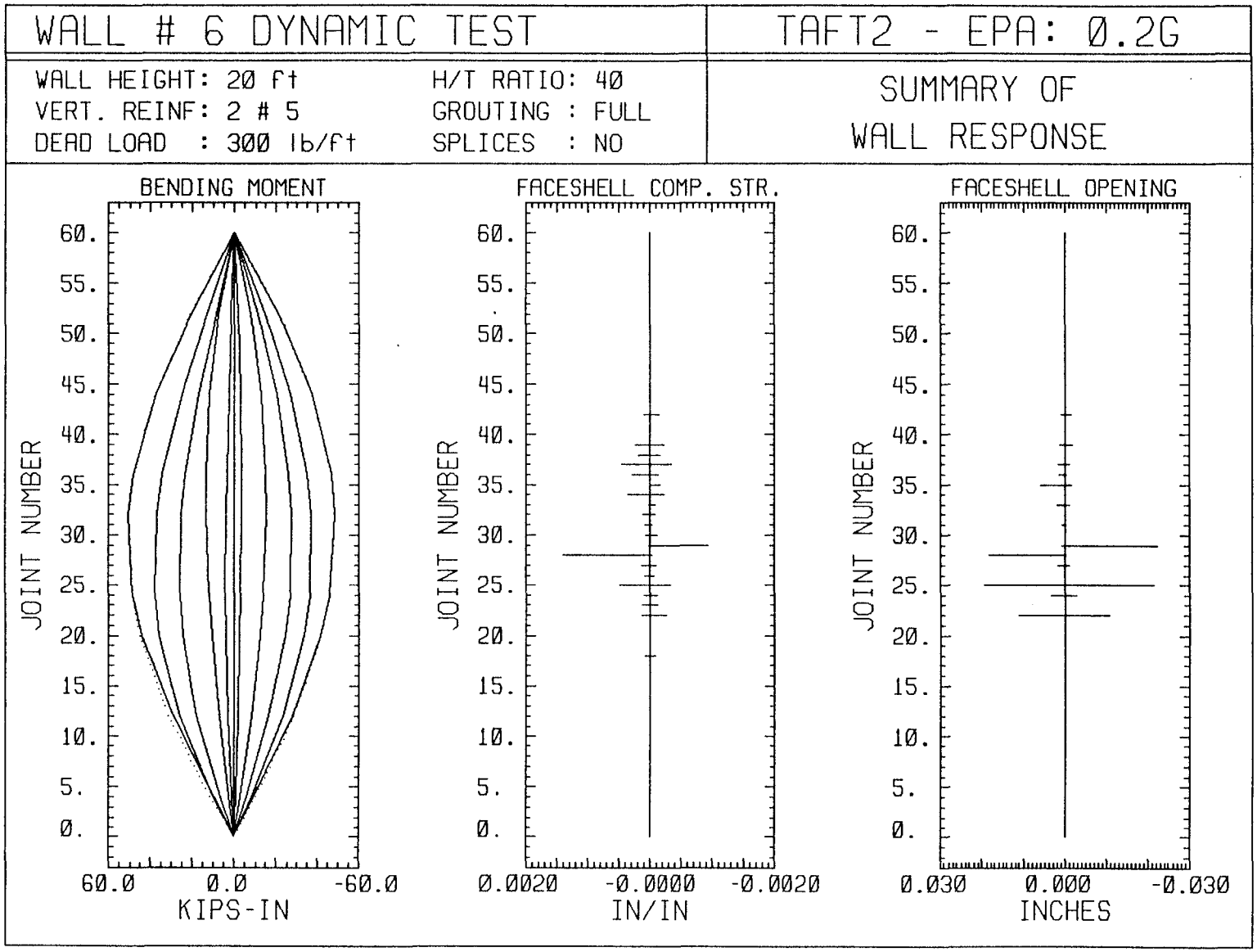

WALL # 6 DYNAMIC TEST
MS4 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
5.0
0.0
-5.0
INCHES
1.5
0.0
-1.5
INCHES
0.80
-0.00
-0.80
G's


WALL # 6 DYNAMIC TEST
MS4 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
80.0
0.0
-80.0
KIPS-IN
FACESHELL COMP. STR.
JOINT NUMBER
0.0020
-0.0000
-0.0020
IN/IN
FACESHELL OPENING
JOINT NUMBER
0.040
0.000
-0.040
INCHES

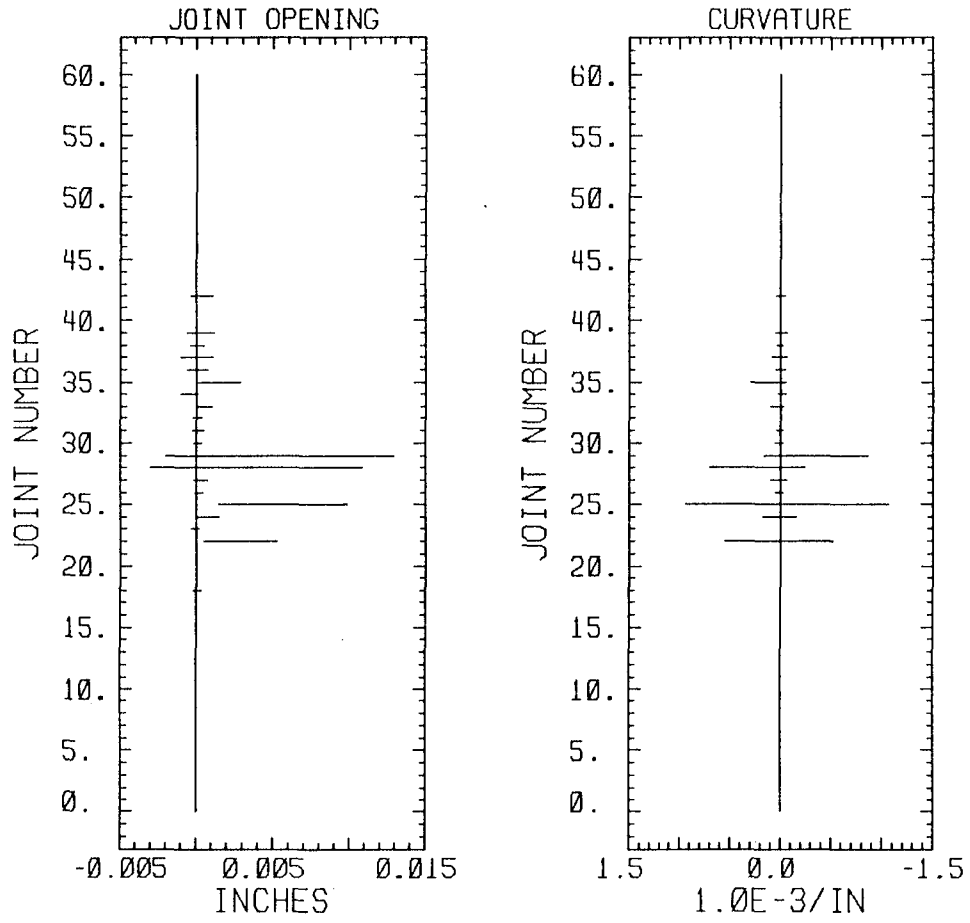
| WALL # 6 DYNAMIC TEST | | MS4 - EPA: 0.2G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | SUMMARY OF |
| VERT. REINF: 2 # 5 | GROUTING : FULL | WALL RESPONSE |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

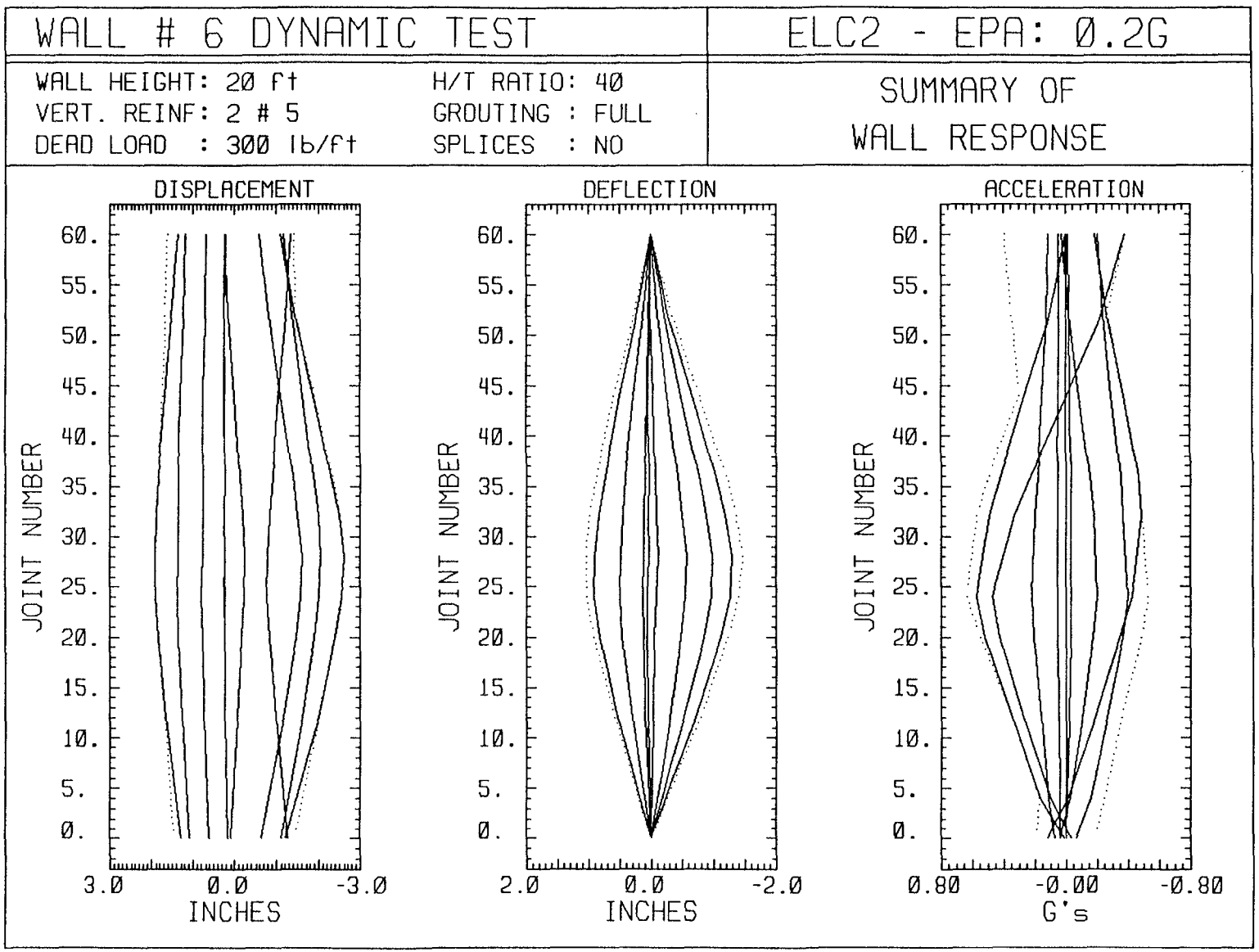


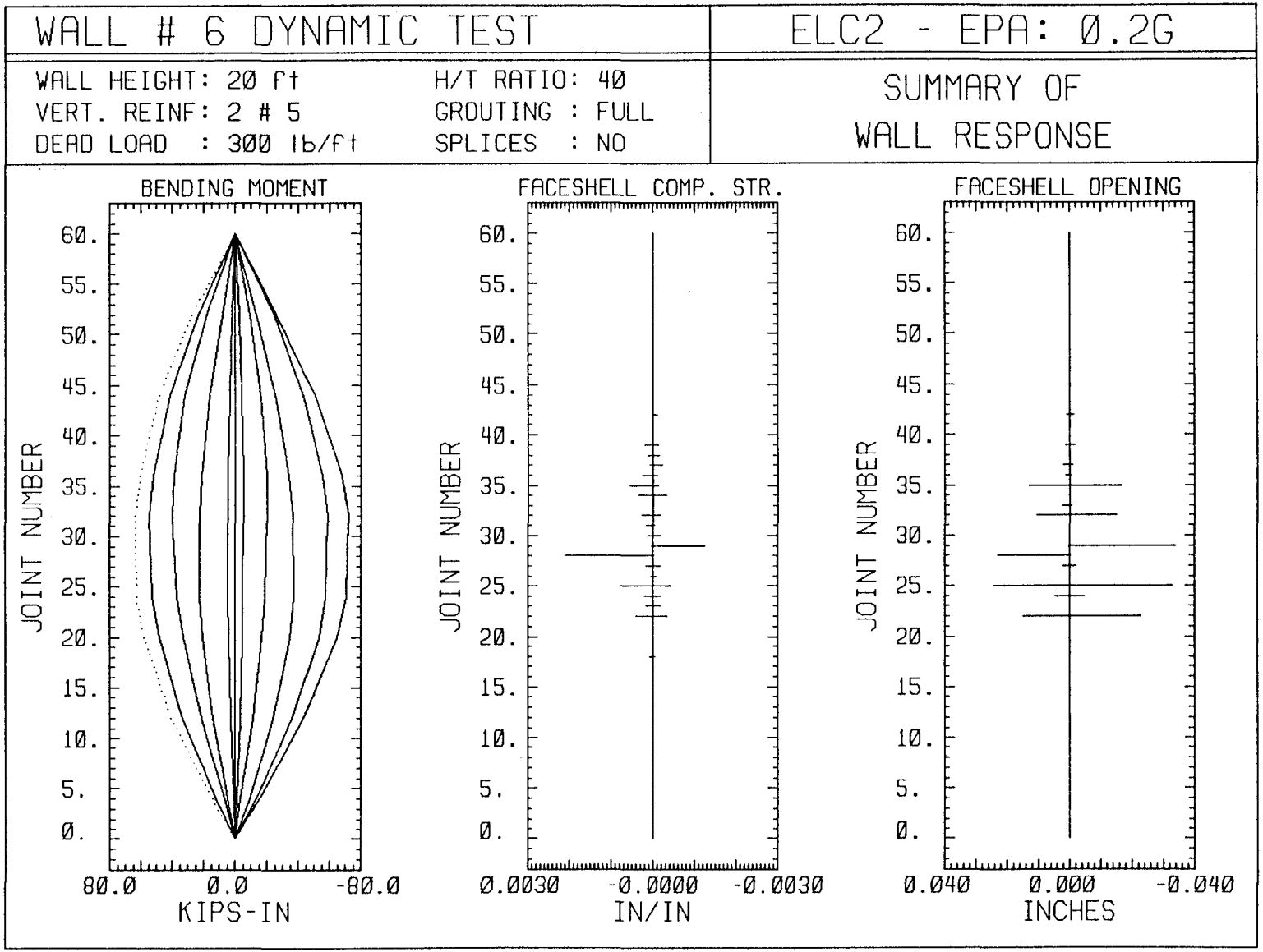

WALL # 6 DYNAMIC TEST
TAFT2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
4.0
0.0
-4.0
INCHES
1.00
-0.00
-1.00
INCHES
0.50
-0.00
-0.50
G's


WALL # 6 DYNAMIC TEST
TAFT2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60. 55. 50. 45. 40. 35. 30. 25. 20. 15. 10. 5. 0.
60.0 0.0 -60.0
KIPS-IN
FACESHELL COMP. STR.
JOINT NUMBER
0.0020 -0.0000 -0.0020
IN/IN
FACESHELL OPENING
JOINT NUMBER
0.030 0.000 -0.030
INCHES

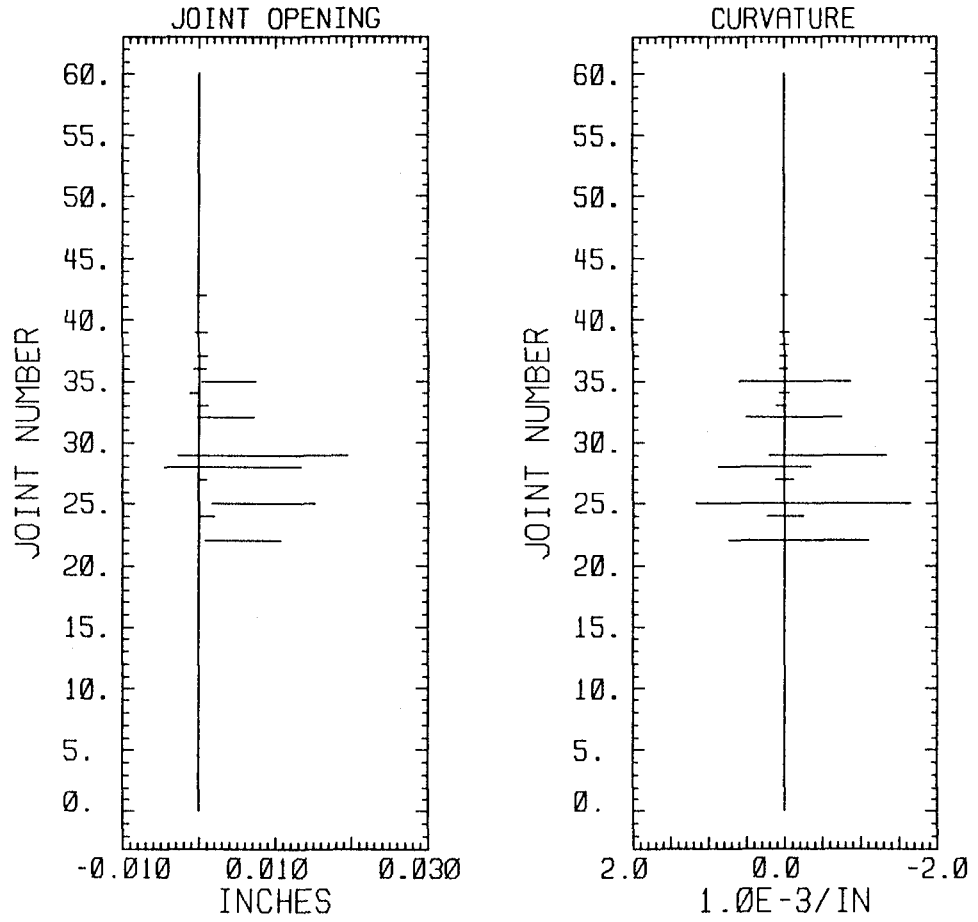
| WALL # 6 DYNAMIC TEST | | TAFT2 - EPA: 0.2G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 300 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | SUMMARY OF<br>WALL RESPONSE |

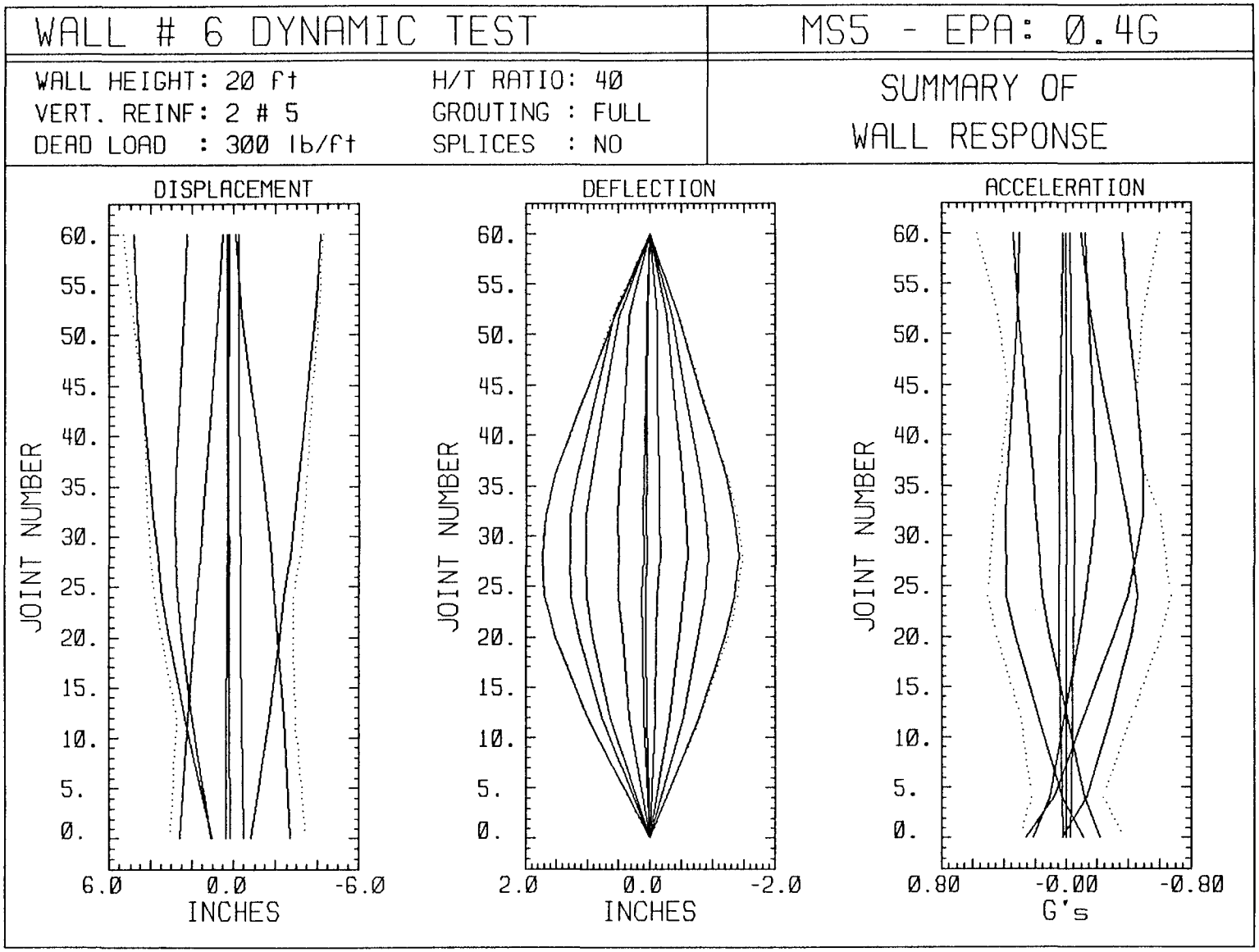


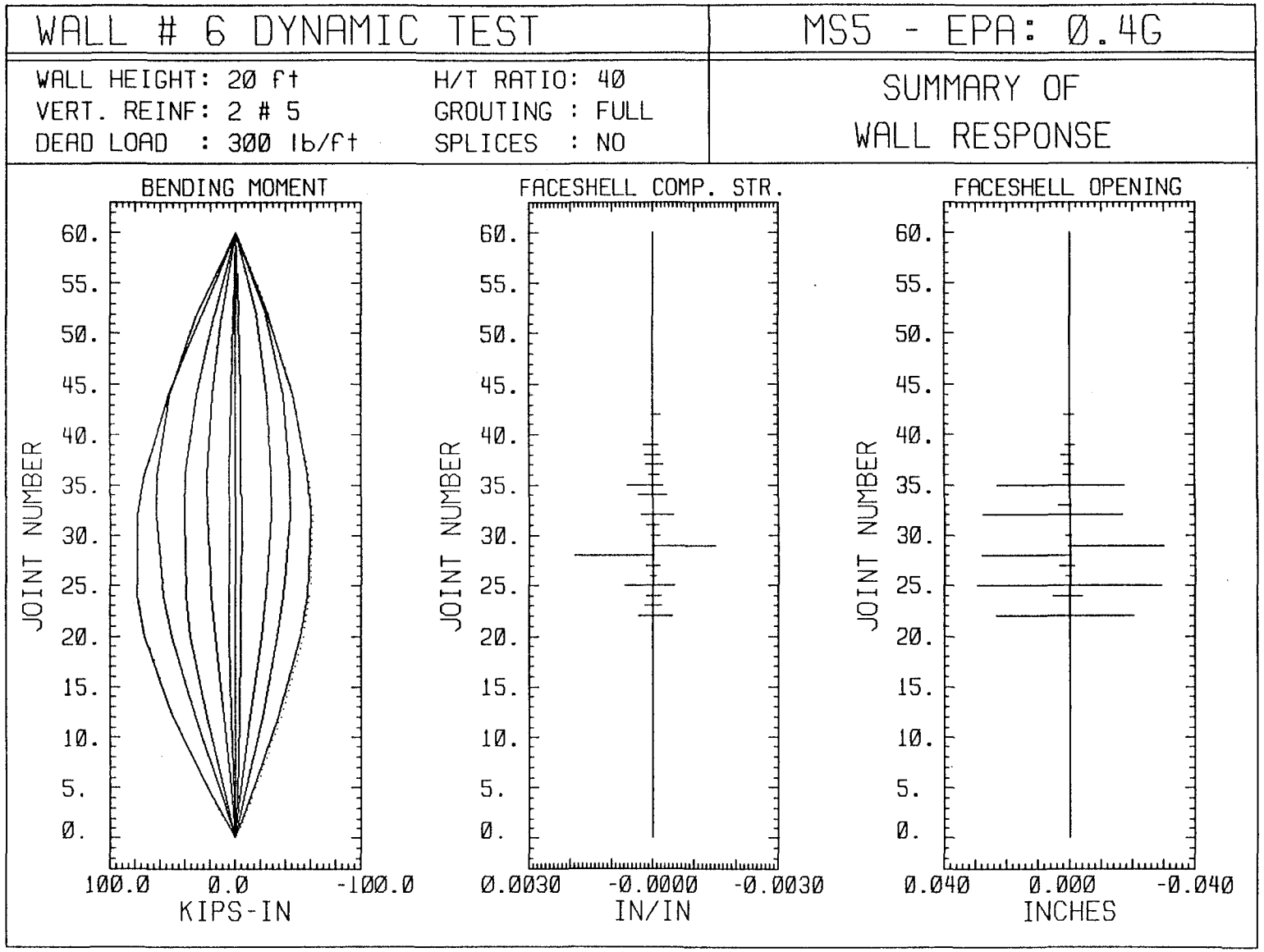

WALL # 6 DYNAMIC TEST
ELC2 - EPA: Ø.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
Ø.
3.Ø
Ø.Ø
-3.Ø
2.Ø
-2.Ø
0.80
-0.00
-Ø.80
INCHES
G's


WALL # 6 DYNAMIC TEST
ELC2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
80.0
0.0
-80.0
KIPS-IN
FACESHELL COMP. STR.
0.0030
-0.0000
-0.0030
IN/IN
FACESHELL OPENING
0.040
0.000
-0.040
INCHES

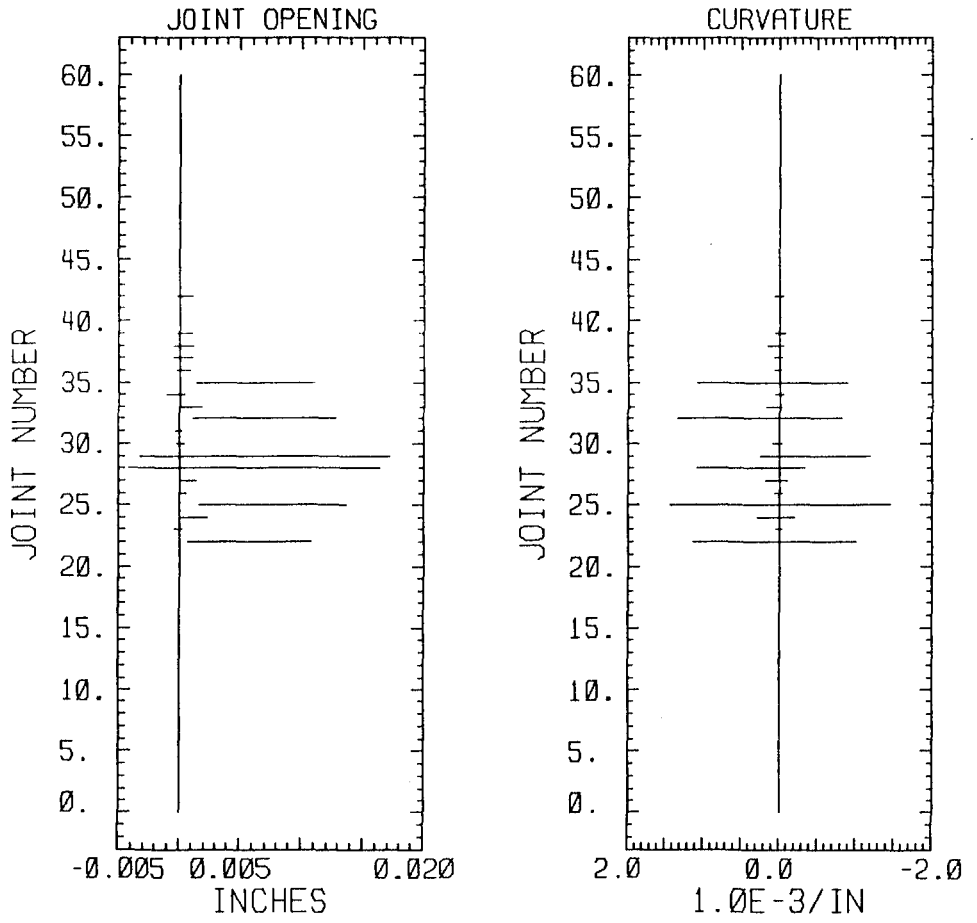
| WALL # 6 DYNAMIC TEST | | ELC2 - EPA: 0.2G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 300 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | SUMMARY OF<br>WALL RESPONSE |

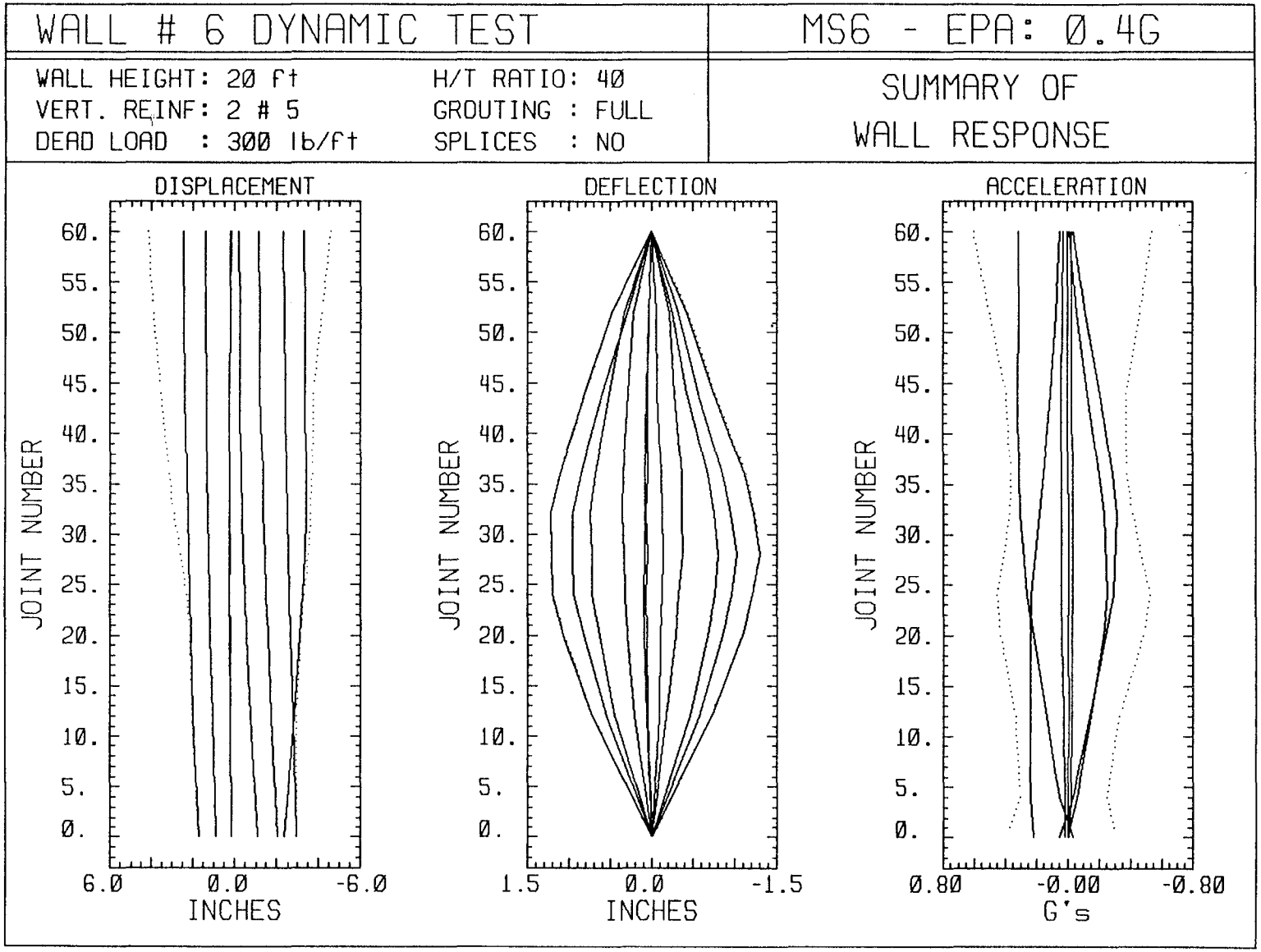


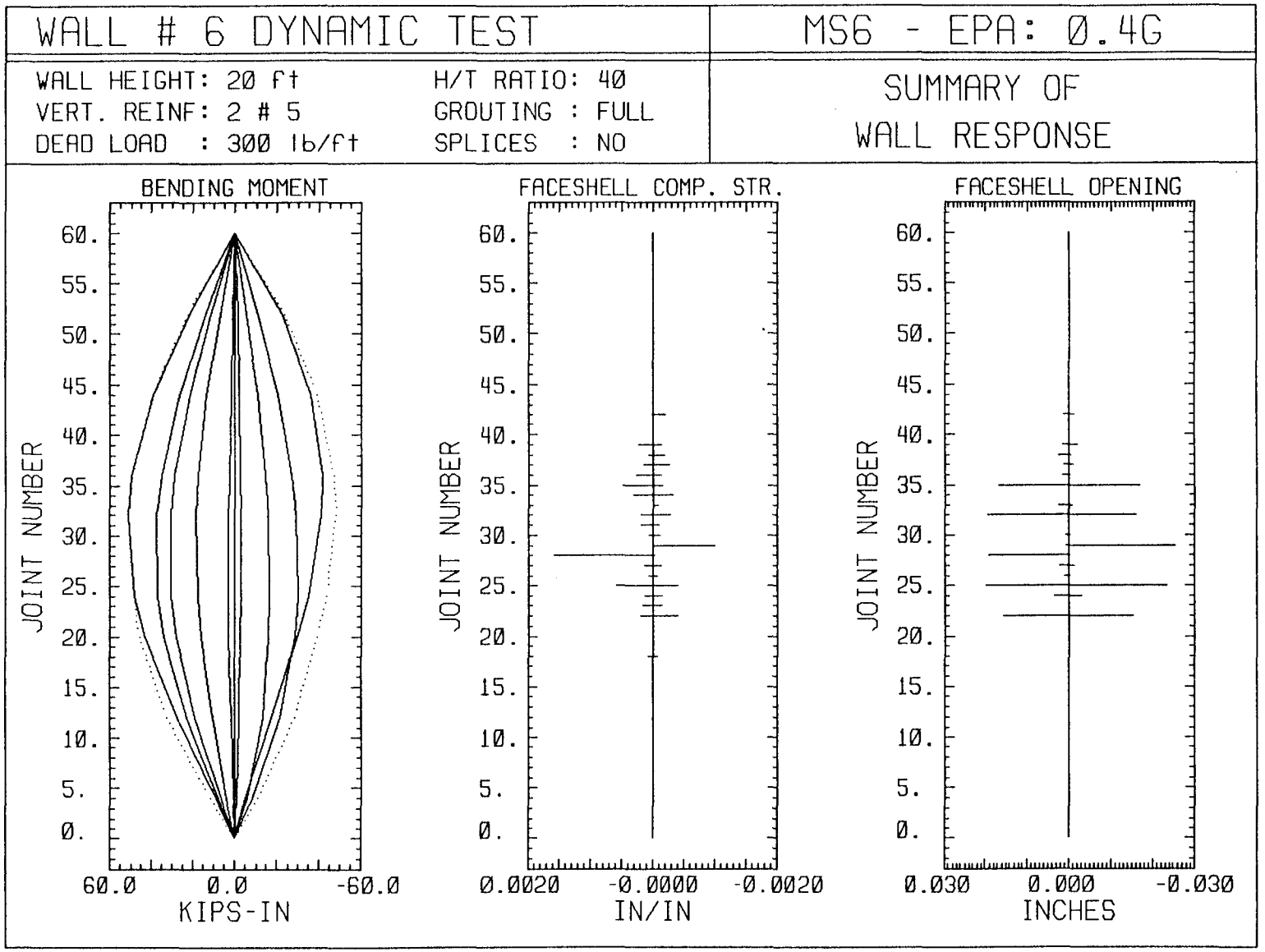

WALL # 6 DYNAMIC TEST
MS5 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
6.0
0.0
-6.0
INCHES
2.0
0.0
-2.0
INCHES
0.80
-0.00
-0.80
G's


WALL # 6 DYNAMIC TEST
MS5 - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
FACESHELL COMP. STR.
FACESHELL OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
Ø.
100.Ø
Ø.Ø
-100.Ø
KIPS-IN
Ø.ØØ3Ø
-Ø.ØØØØ
-Ø.ØØ3Ø
IN/IN
Ø.Ø4Ø
Ø.ØØØ
-Ø.Ø4Ø
INCHES

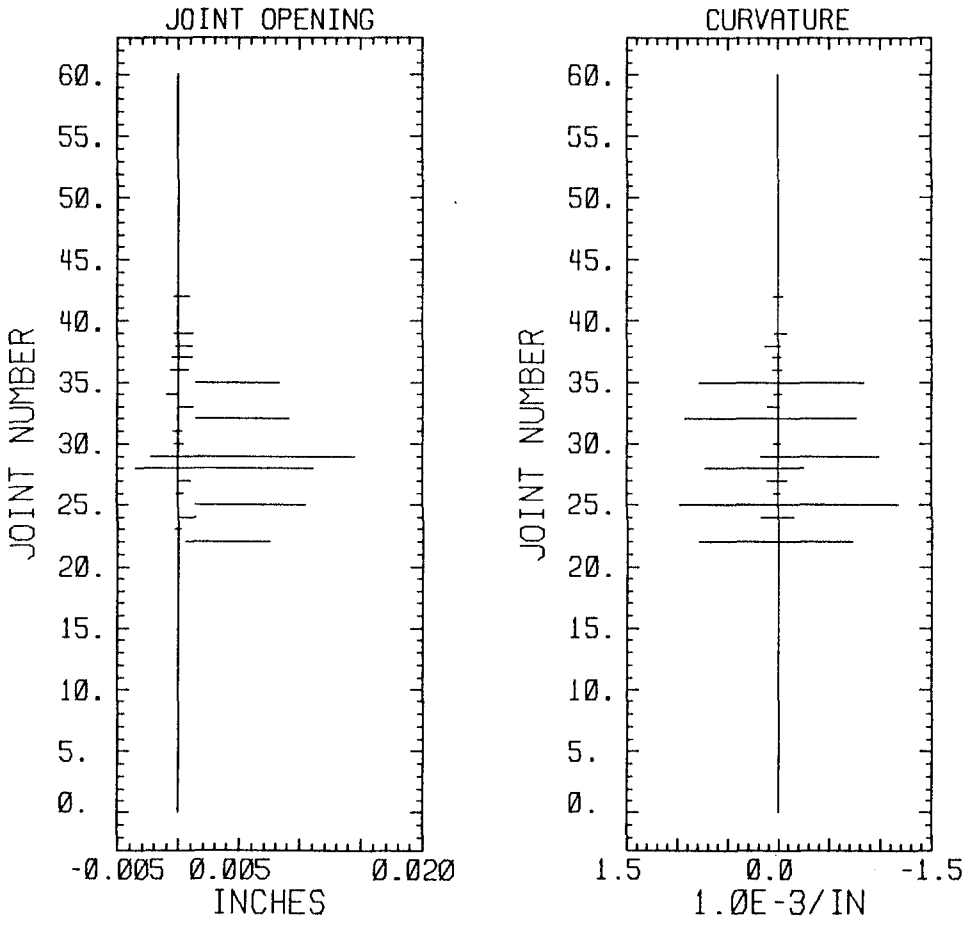
| WALL # 6 DYNAMIC TEST | | MS5 - EPA: 0.4G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 300 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | SUMMARY OF<br>WALL RESPONSE |

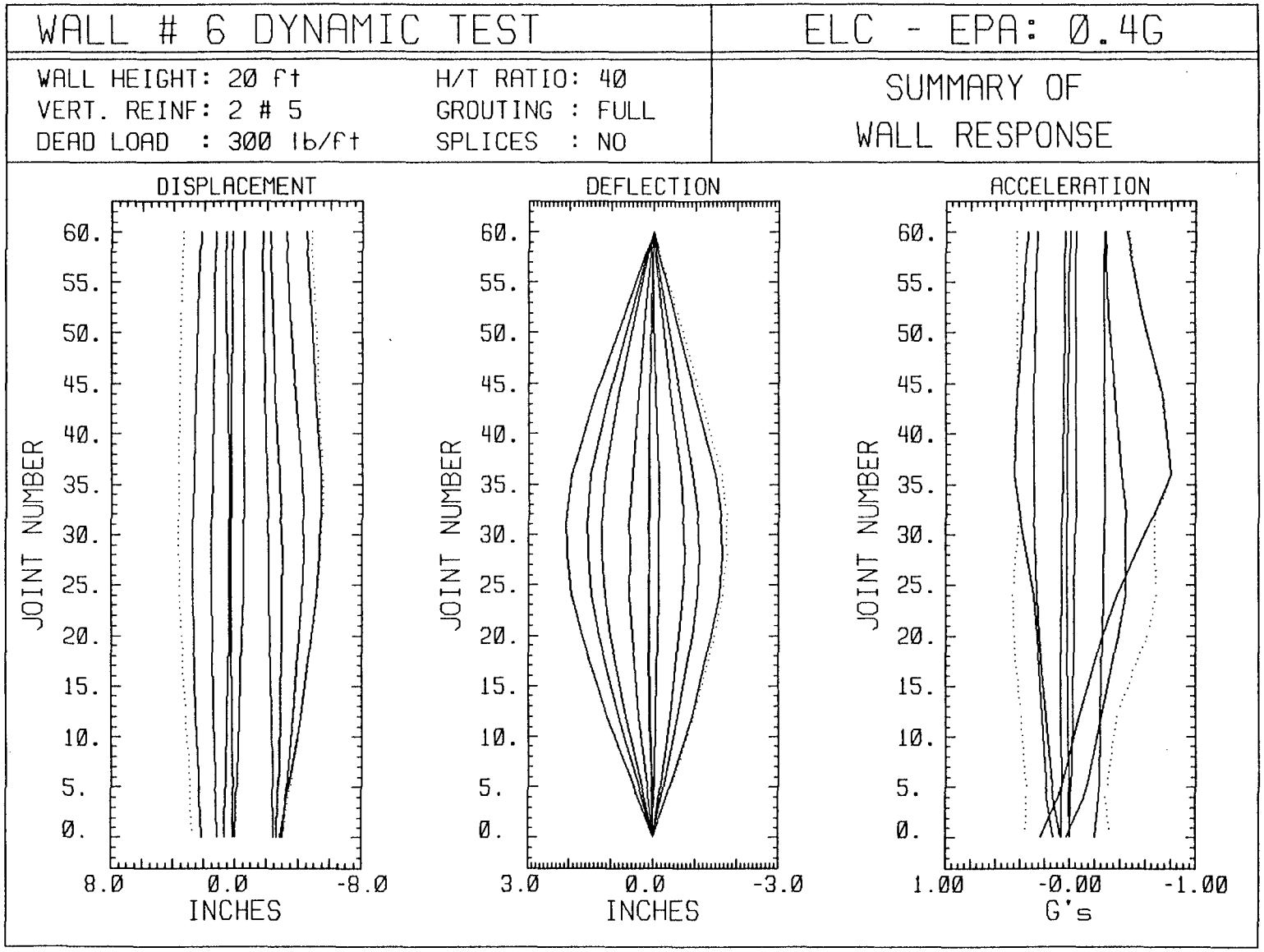


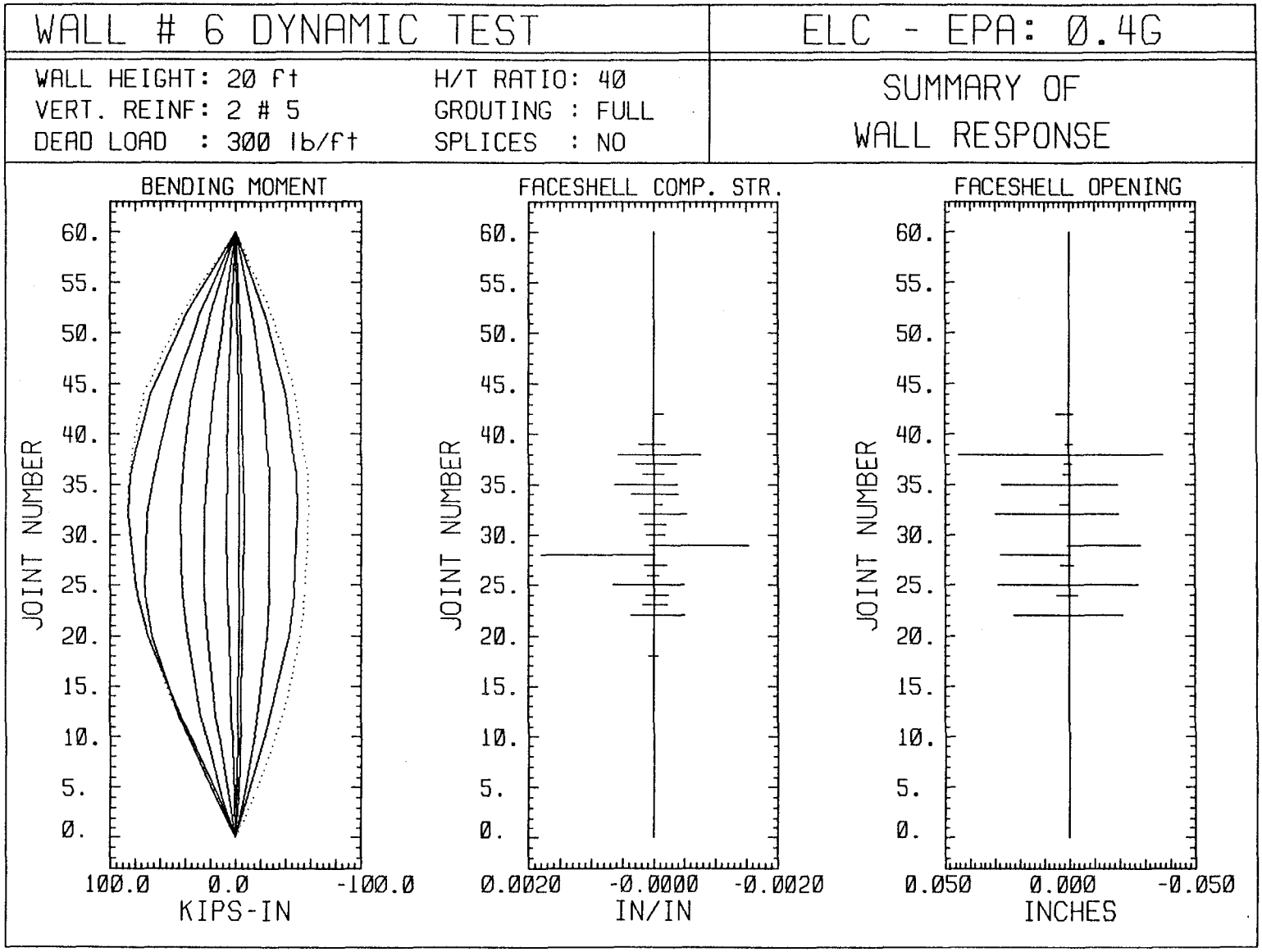

WALL # 6 DYNAMIC TEST
MS6 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
6.0
0.0
-6.0
INCHES
1.5
0.0
-1.5
INCHES
0.80
-0.00
-0.80
G's

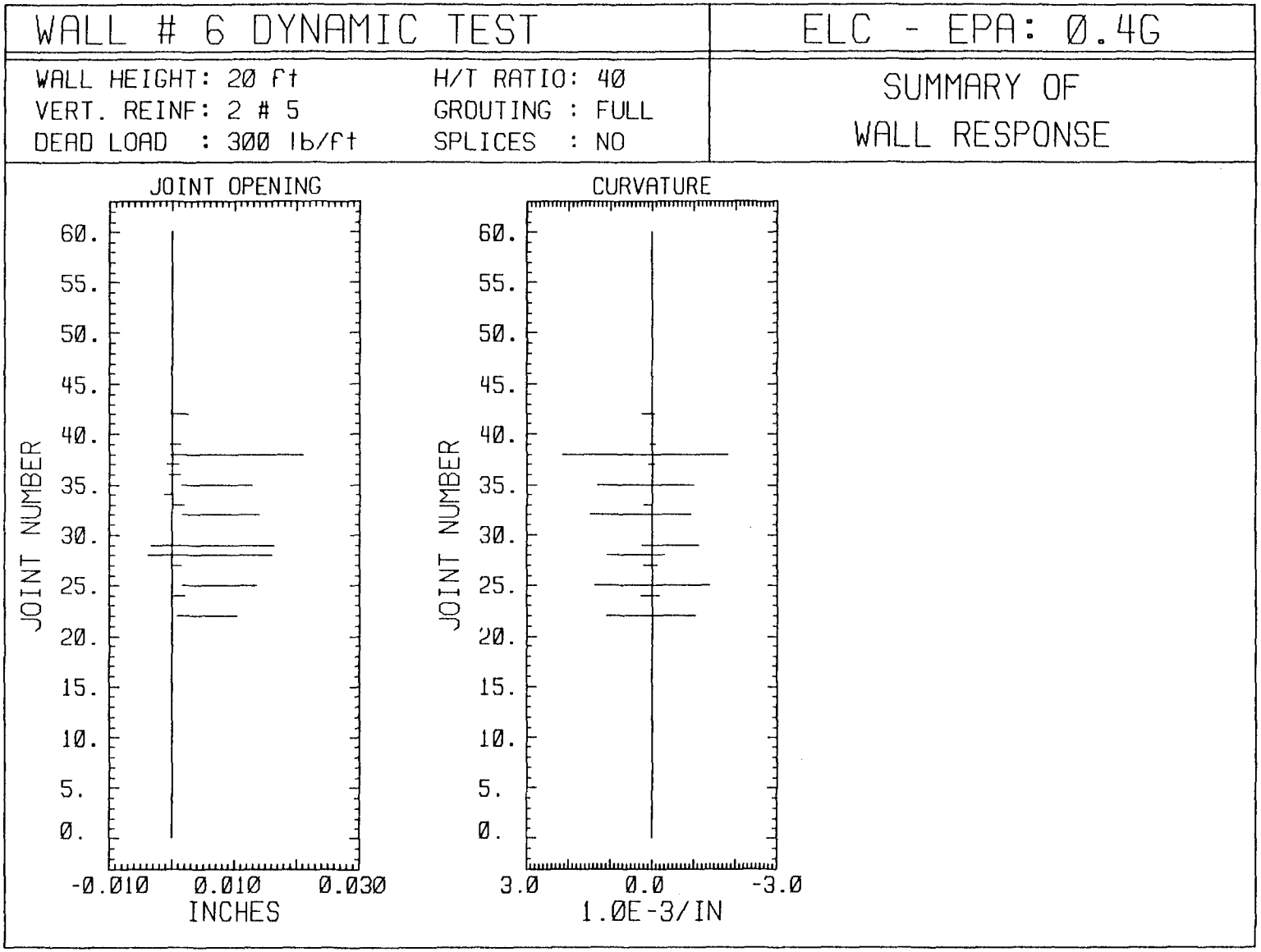

WALL # 6 DYNAMIC TEST
MS6 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
60.0
0.0
-60.0
KIPS-IN
FACESHELL COMP. STR.
JOINT NUMBER
0.0020
-0.0000
-0.0020
IN/IN
FACESHELL OPENING
JOINT NUMBER
0.030
0.000
-0.030
INCHES

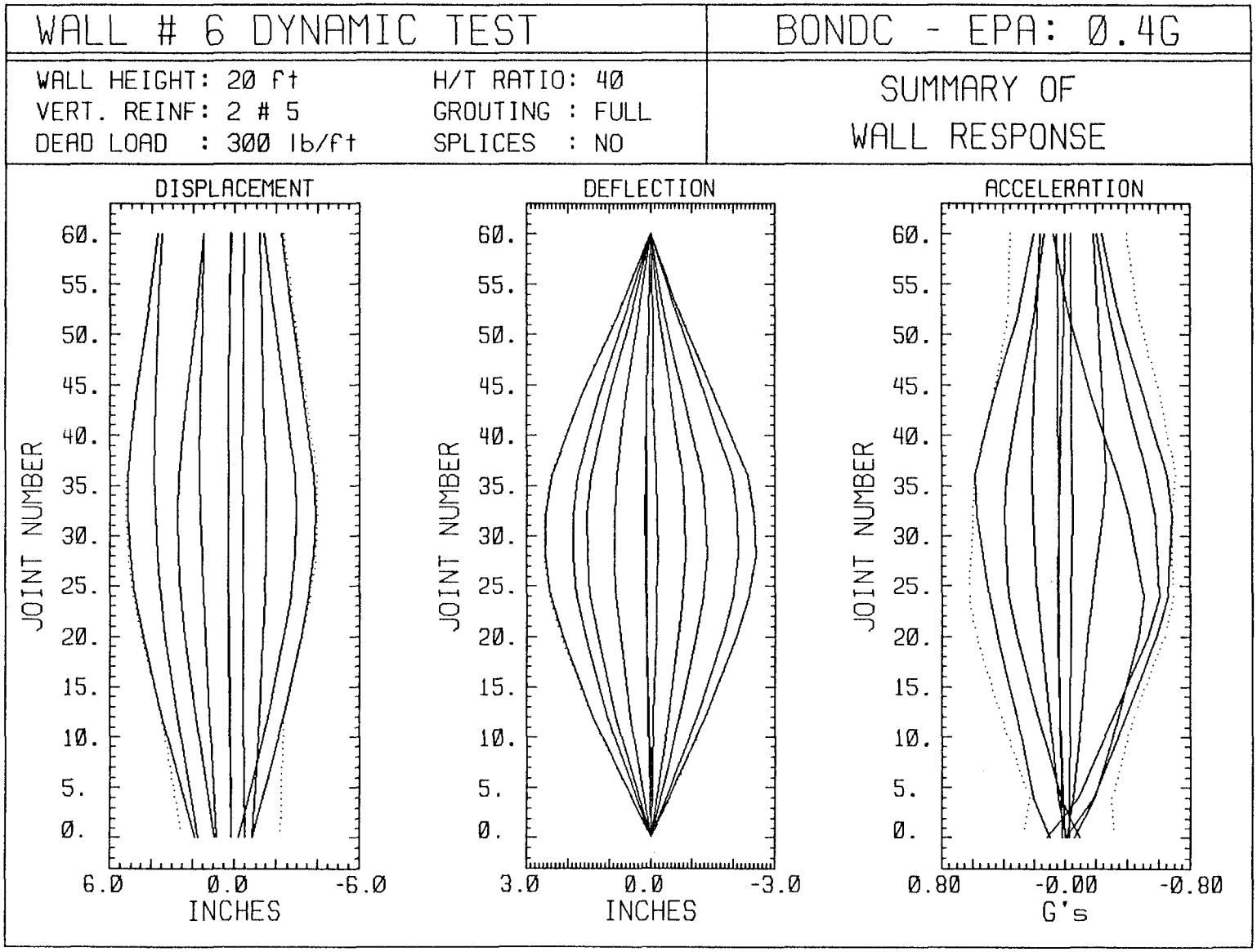
| WALL # 6 DYNAMIC TEST | | MS6 - EPA: 0.4G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 300 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | SUMMARY OF<br>WALL RESPONSE |

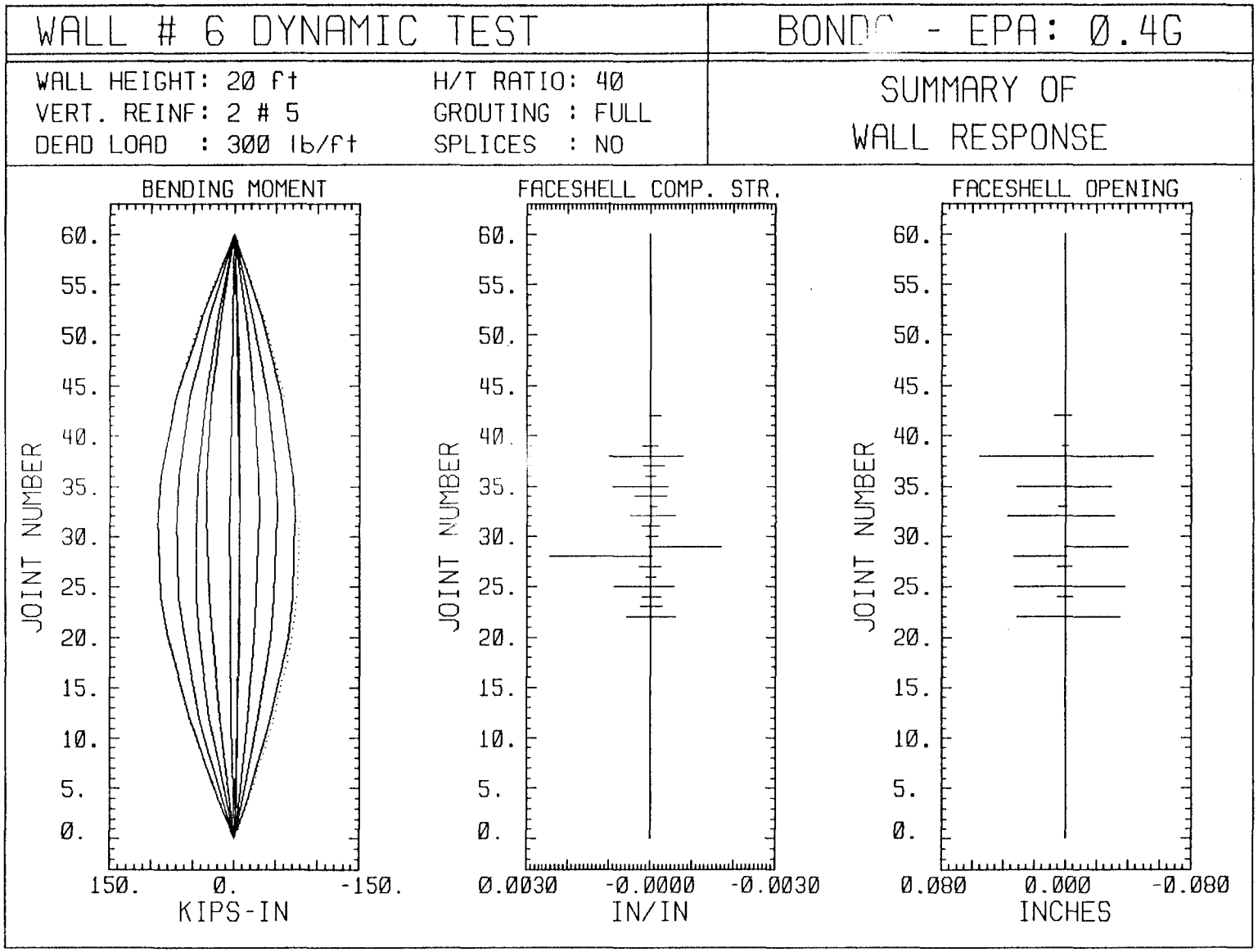



WALL # 6 DYNAMIC TEST
ELC - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
Ø.
8.Ø
Ø.Ø
-8.Ø
3.Ø
-3.Ø
1.ØØ
-Ø.ØØ
-1.ØØ
INCHES
G's

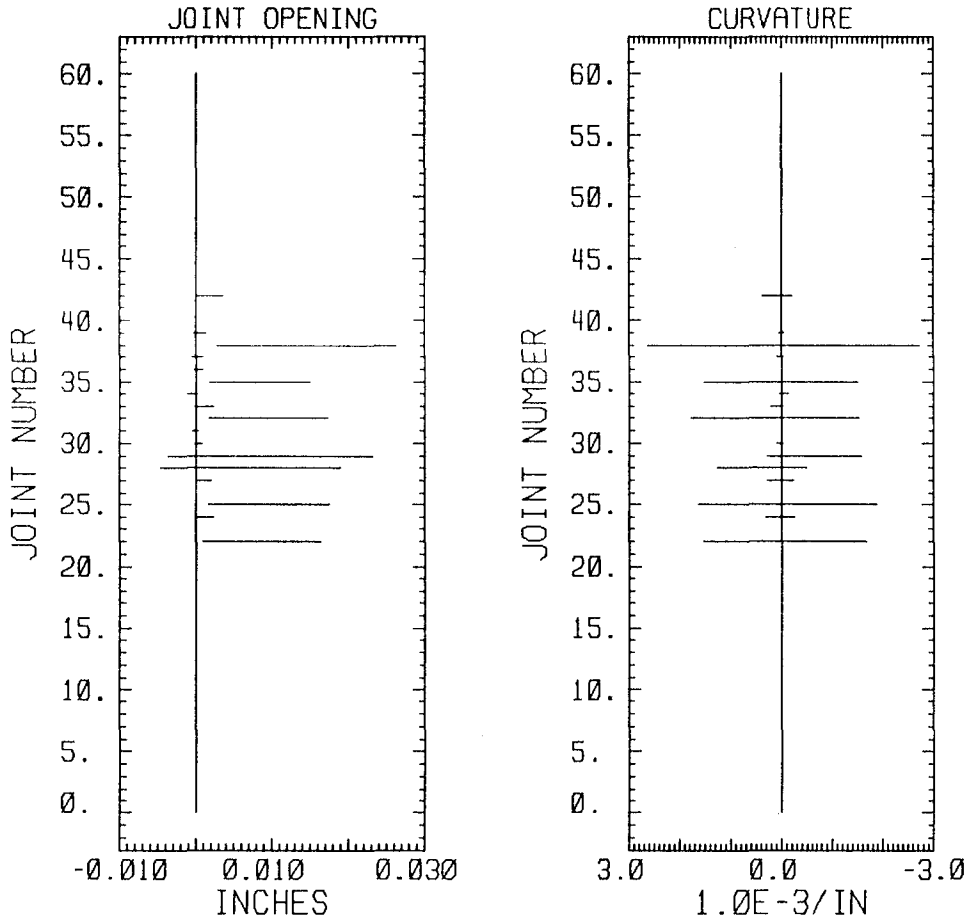

WALL # 6 DYNAMIC TEST
ELC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
FACESHELL COMP. STR.
FACESHELL OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
0.0020
-0.0000
-0.0020
IN/IN
0.050
0.000
-0.050
INCHES

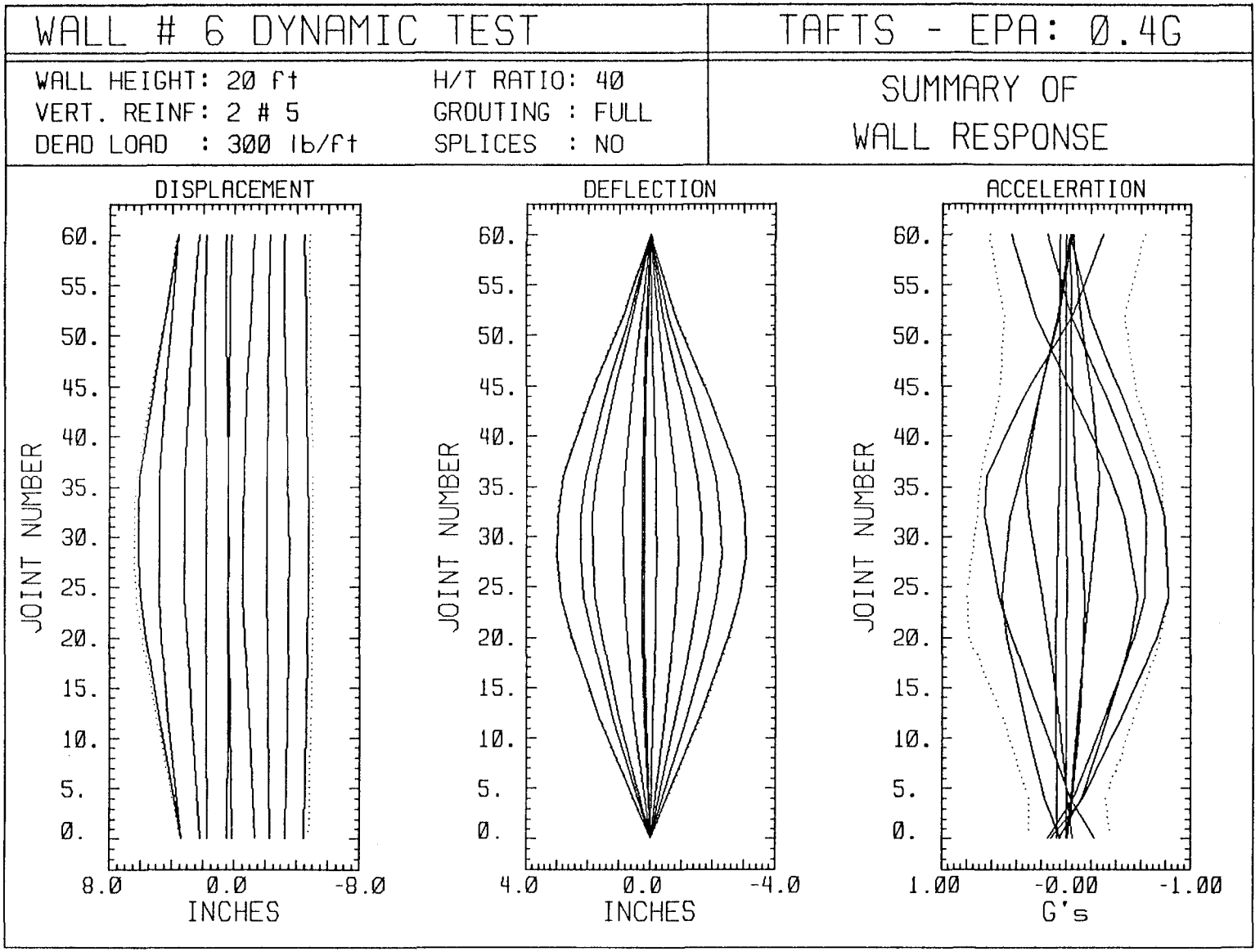

WALL # 6 DYNAMIC TEST
ELC - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
JOINT OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
Ø.
-Ø.Ø1Ø
Ø.Ø1Ø
Ø.Ø3Ø
INCHES
CURVATURE
JOINT NUMBER
3.Ø
Ø.Ø
-3.Ø
1.ØE-3/IN

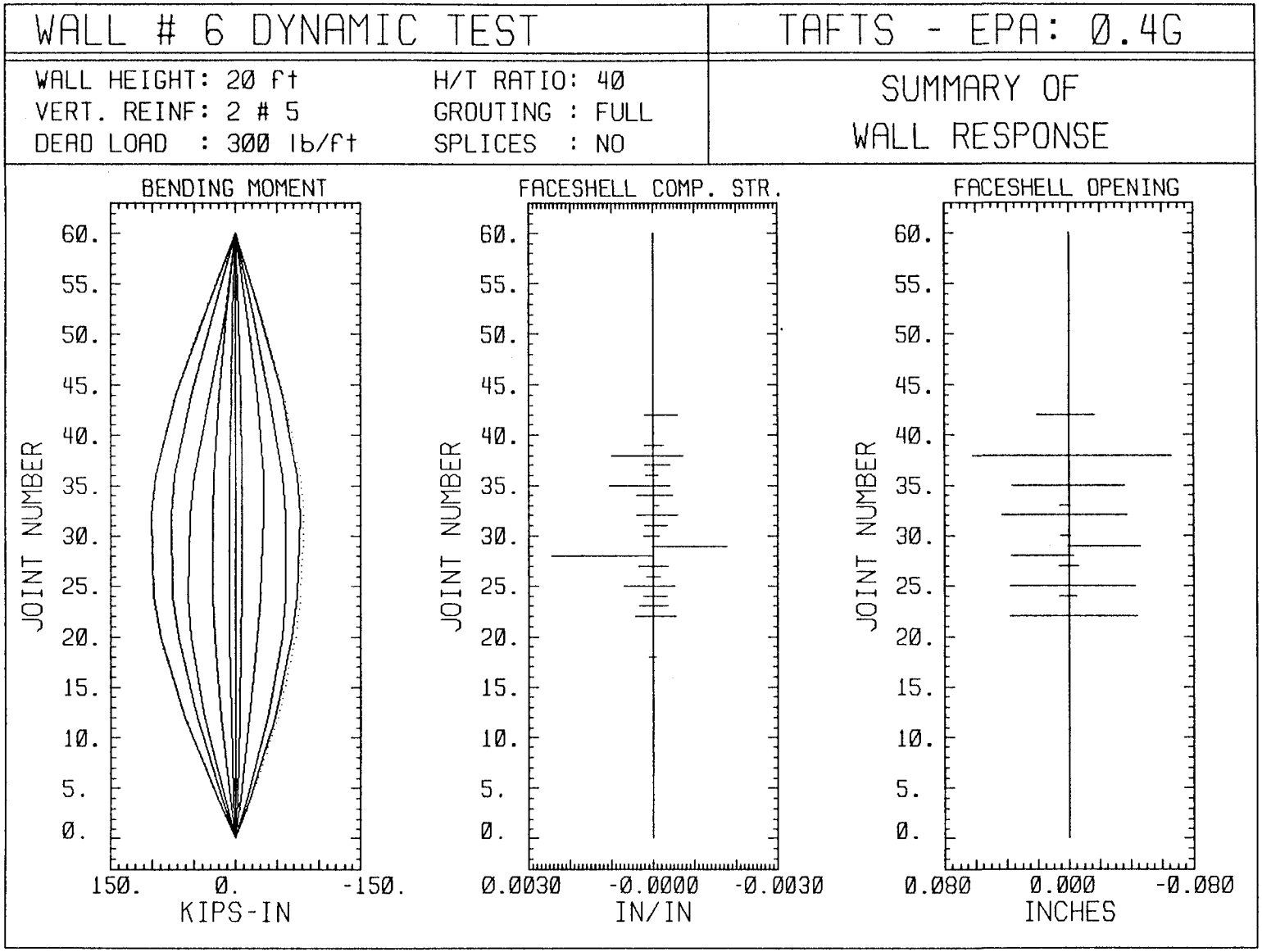

WALL # 6 DYNAMIC TEST
BONDC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
6.0
0.0
-6.0
INCHES
3.0
0.0
-3.0
INCHES
0.80
-0.00
-0.80
G's


WALL # 6 DYNAMIC TEST
BOND - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
FACESHELL COMP. STR.
FACESHELL OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
150.
0.
-150.
KIPS-IN
0.0030
-0.0000
-0.0030
IN/IN
0.080
0.000
-0.080
INCHES

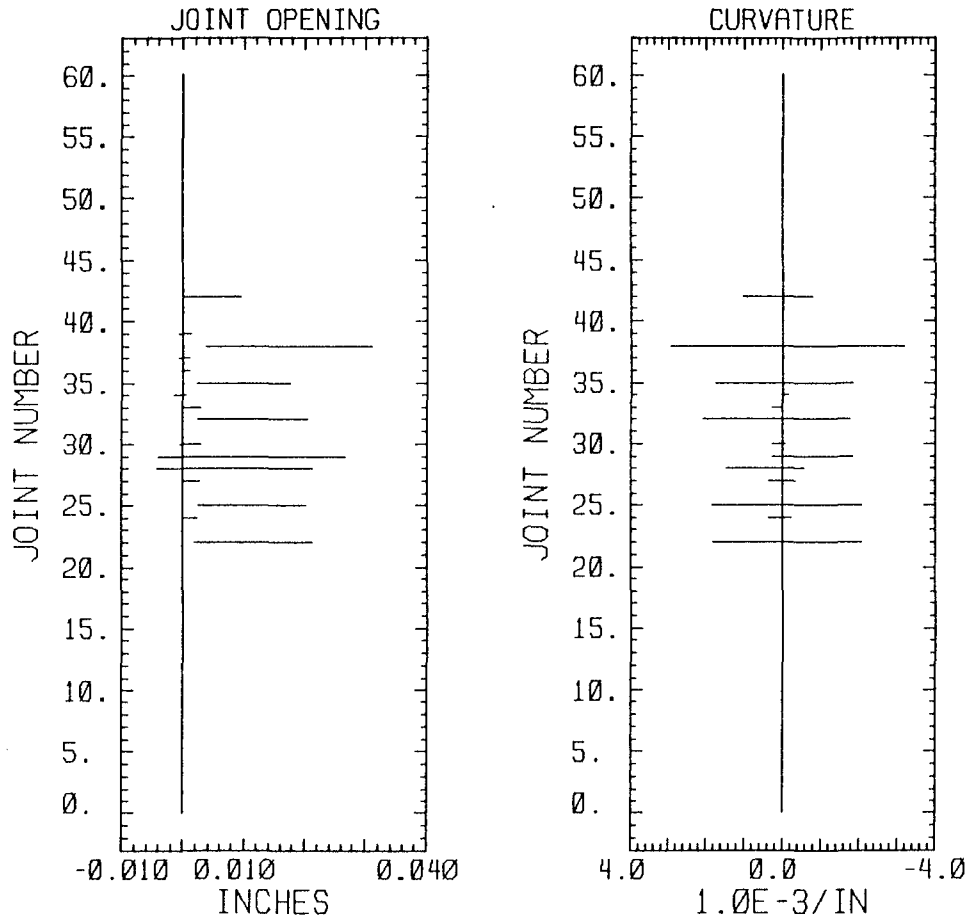
| WALL # 6 DYNAMIC TEST | | BONDC - EPA: Ø.4G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 300 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | SUMMARY OF<br>WALL RESPONSE |

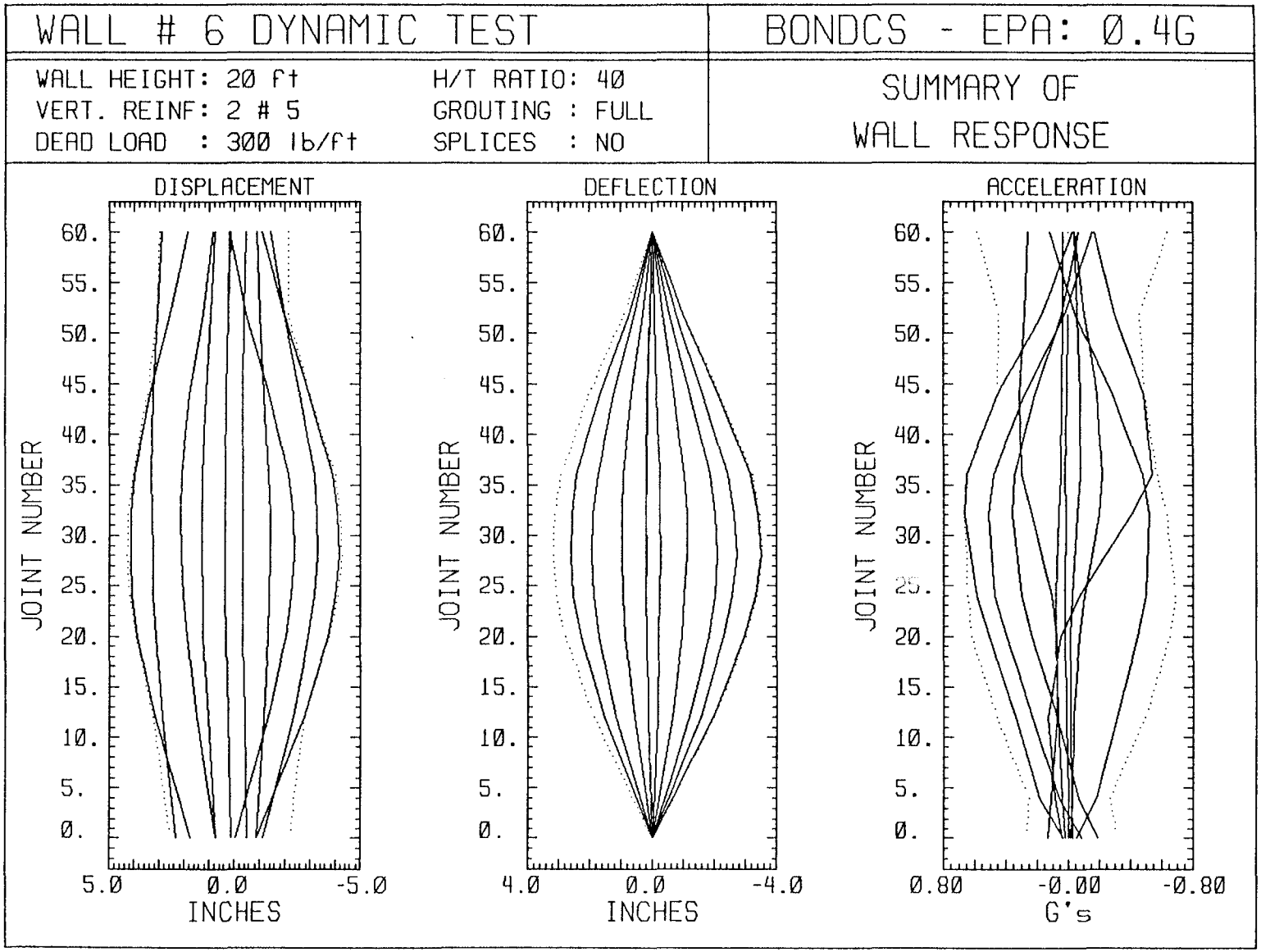


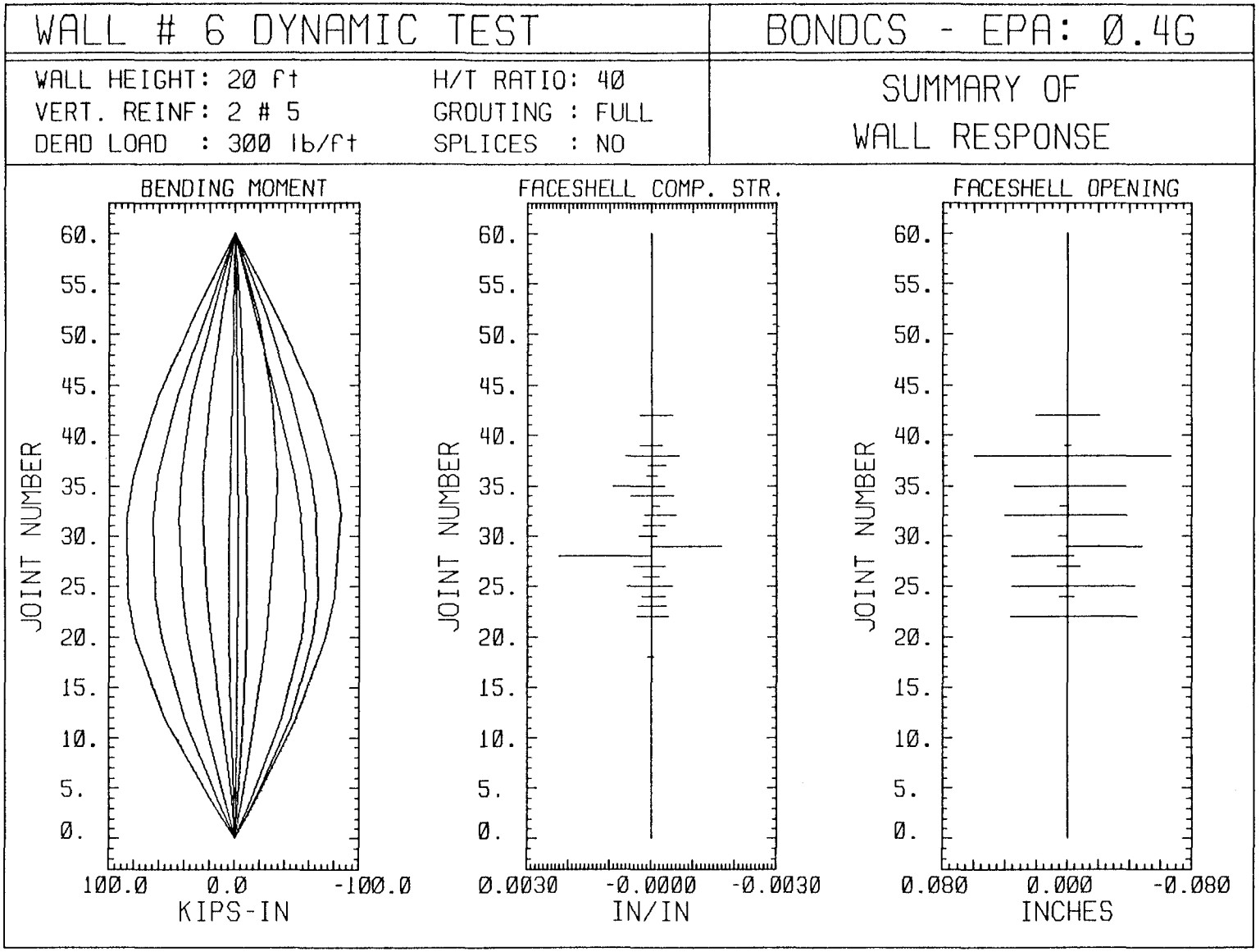

WALL # 6 DYNAMIC TEST
TAFTS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
8.0
0.0
-8.0
INCHES
4.0
0.0
-4.0
INCHES
1.00
-0.00
-1.00
G's


WALL # 6 DYNAMIC TEST
TAFTS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
150.
0.
-150.
KIPS-IN
FACESHELL COMP. STR.
JOINT NUMBER
0.0030
-0.0000
-0.0030
IN/IN
FACESHELL OPENING
JOINT NUMBER
0.080
0.000
-0.080
INCHES

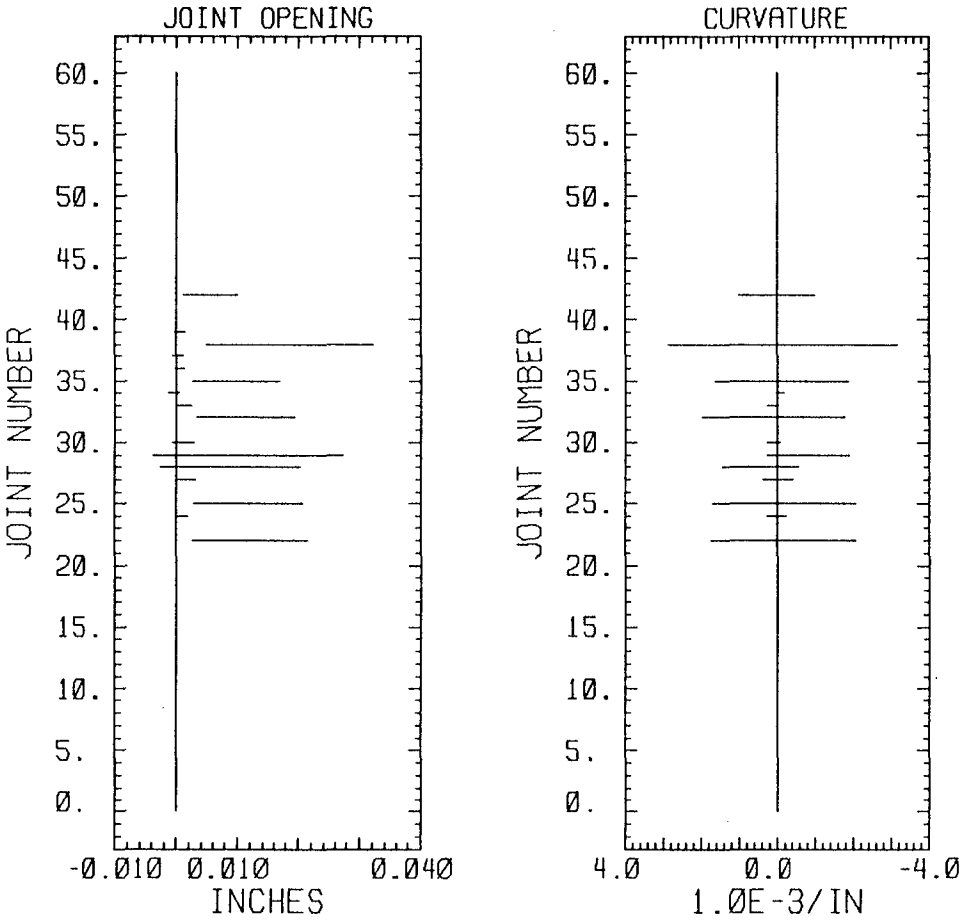
| WALL # 6 DYNAMIC TEST | | TAFTS - EPA: 0.4G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 300 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | SUMMARY OF<br>WALL RESPONSE |

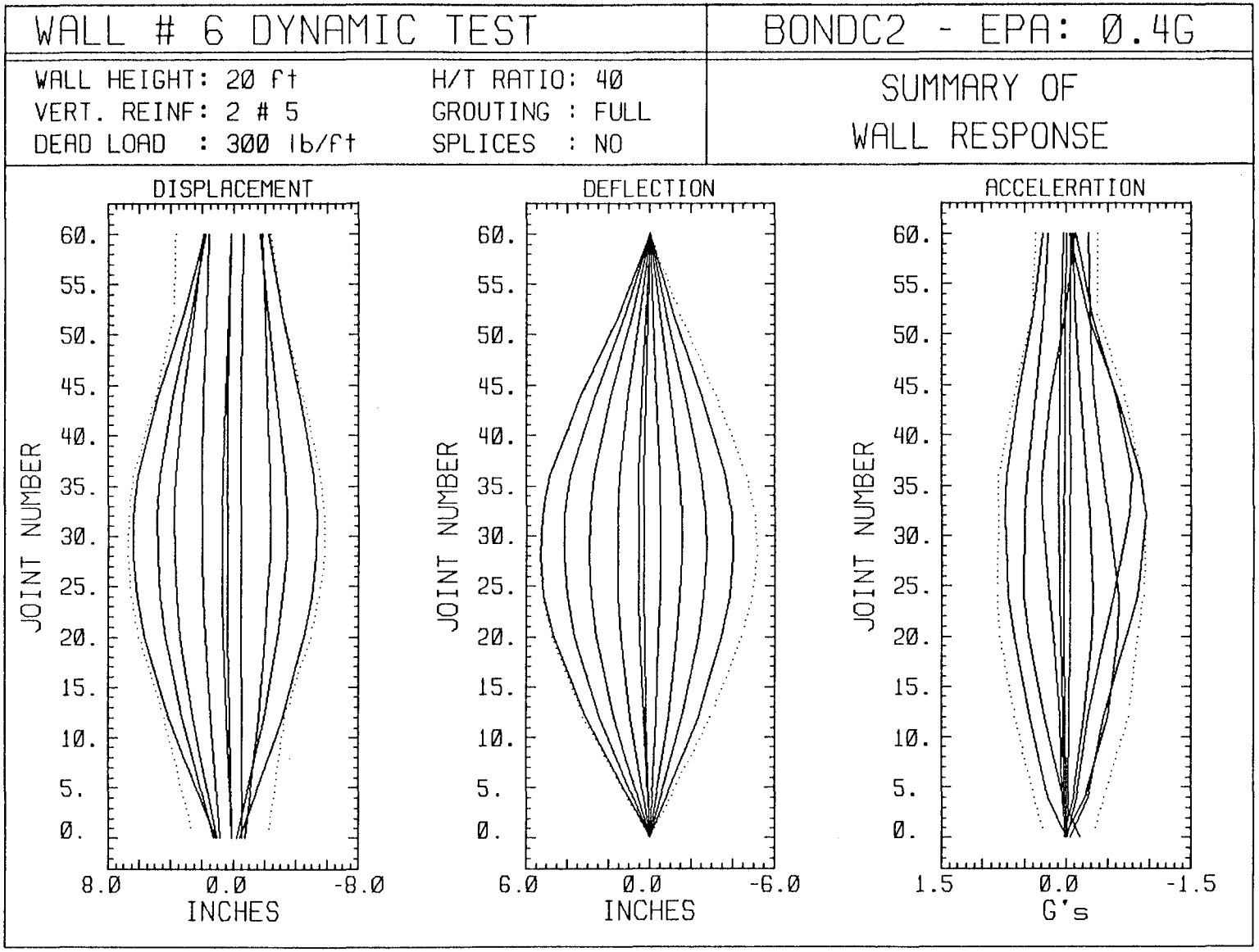


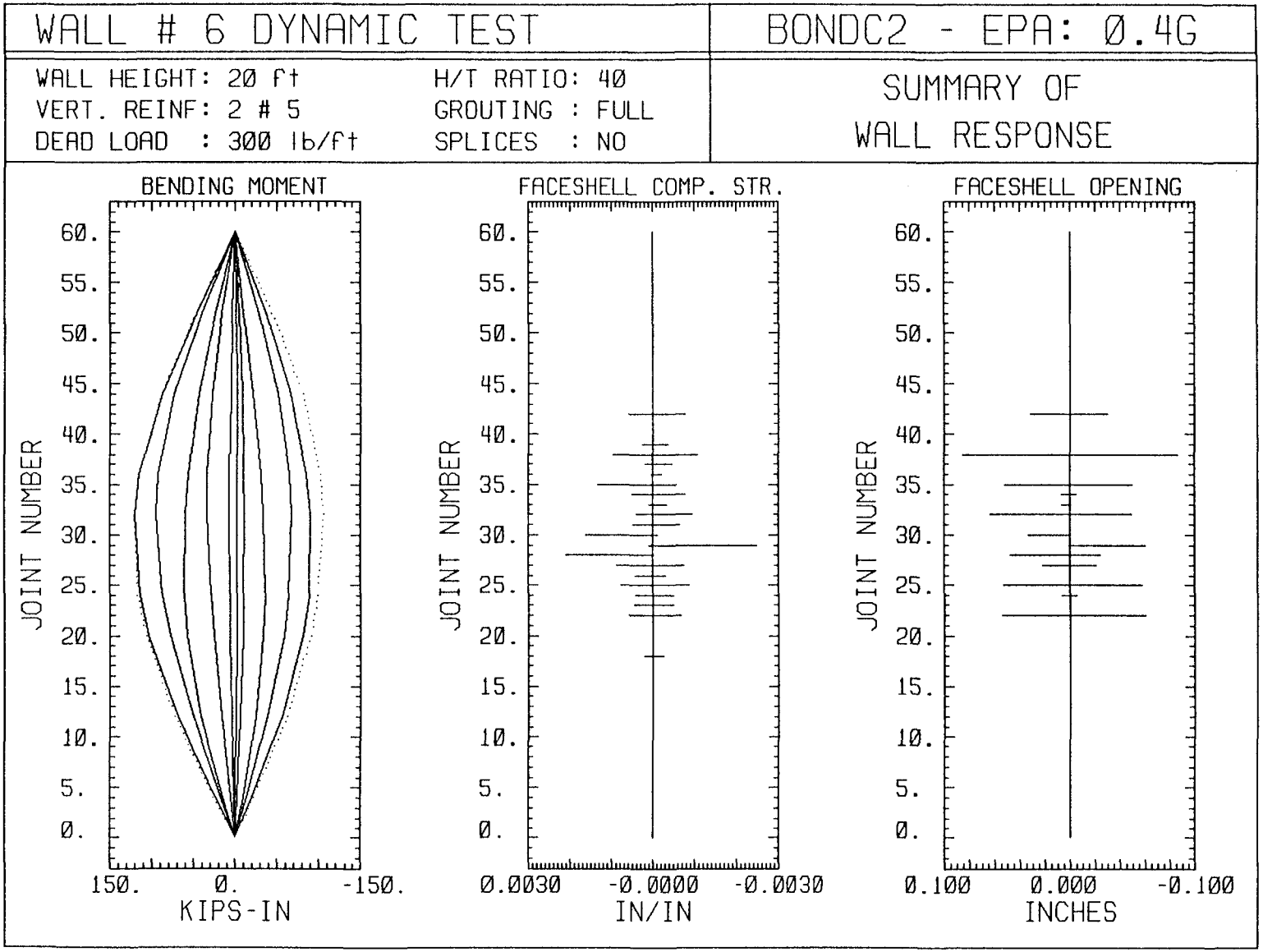

WALL # 6 DYNAMIC TEST
BONDCS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
5.0
0.0
-5.0
4.0
-4.0
0.80
-0.00
-0.80
INCHES
G's

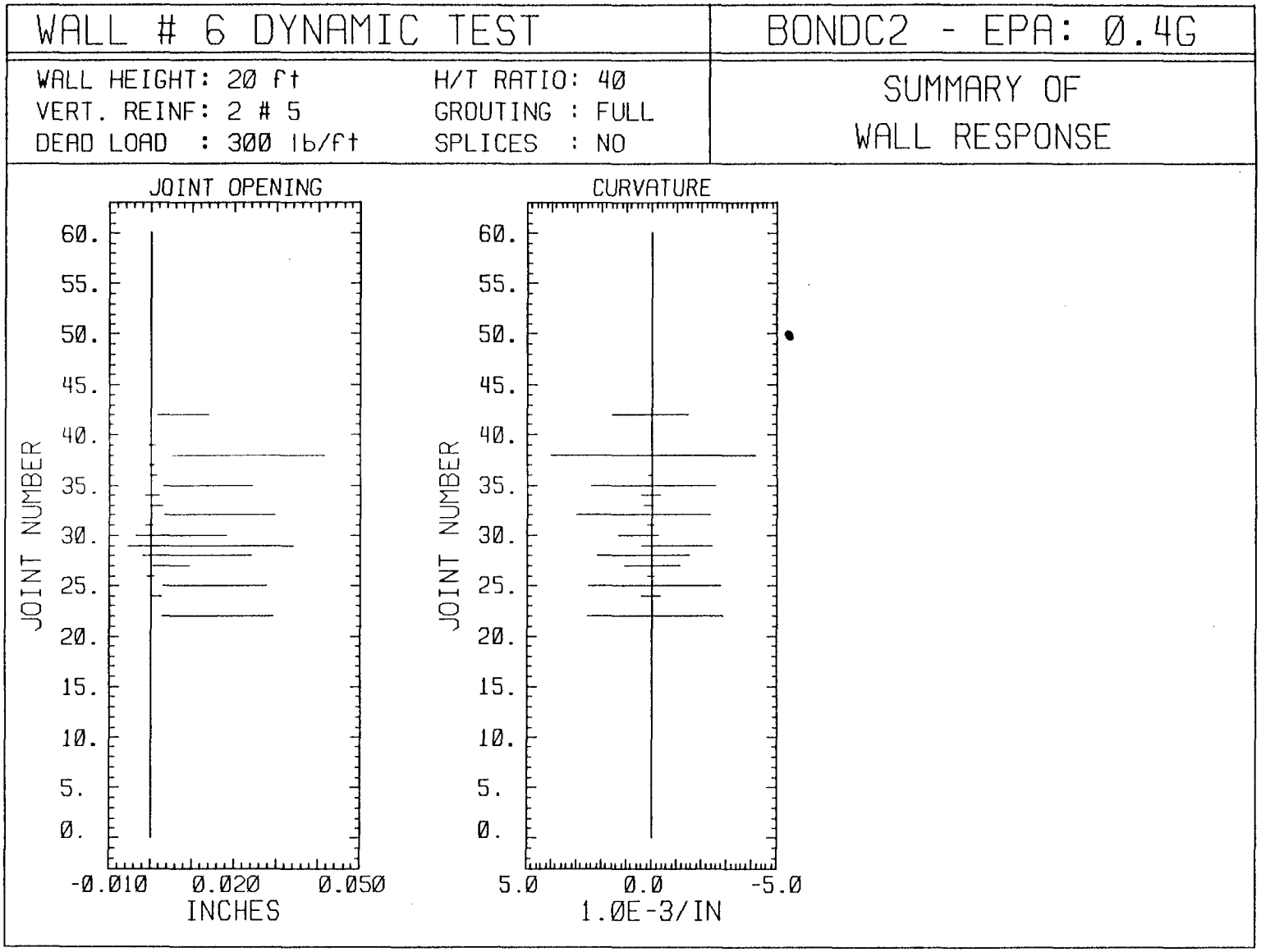

WALL # 6 DYNAMIC TEST
BONDCS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
FACESHELL COMP. STR.
FACESHELL OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
100.0
0.0
-100.0
KIPS-IN
0.0030
-0.0000
-0.0030
IN/IN
0.080
0.000
-0.080
INCHES

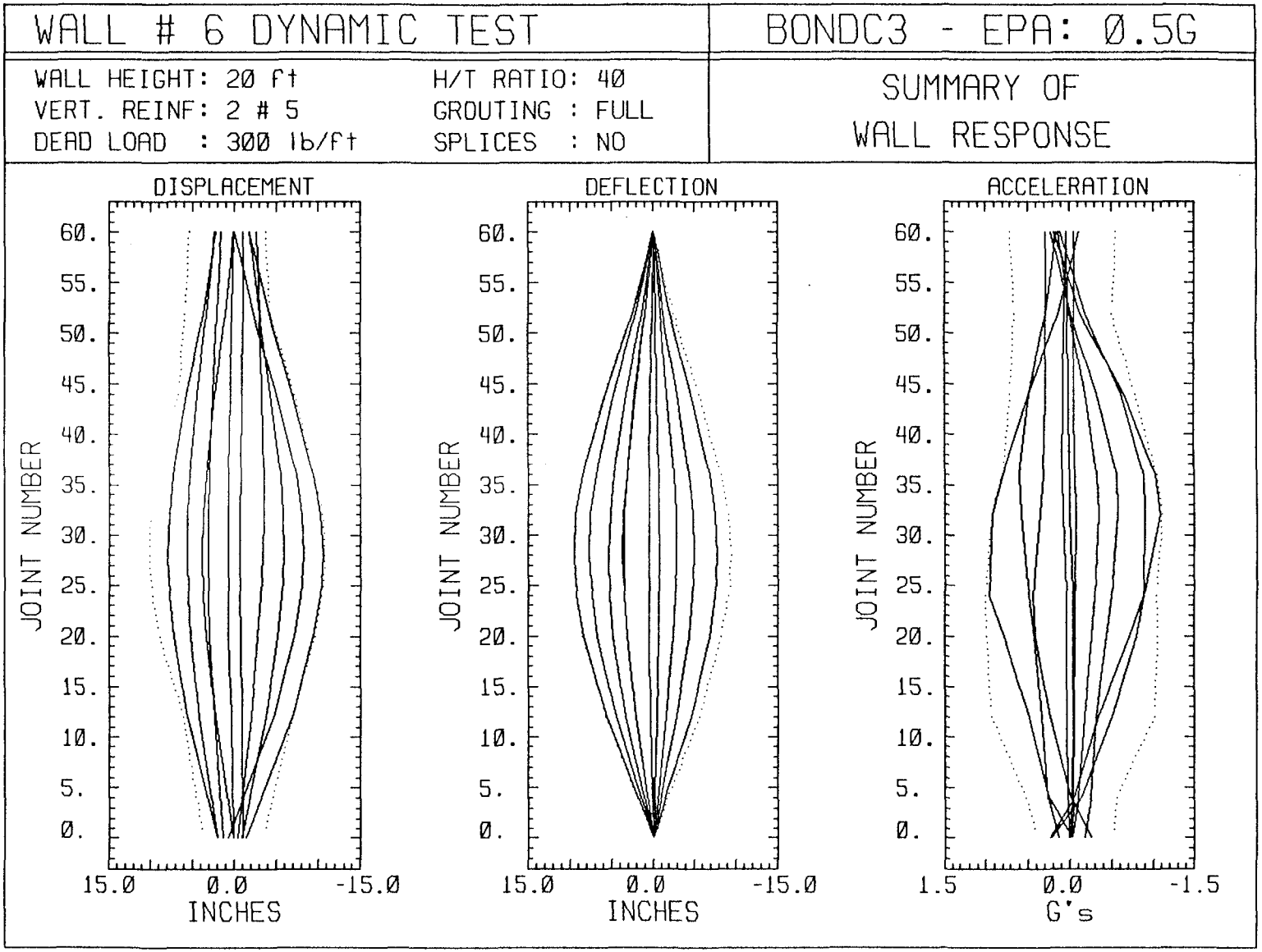
| WALL # 6 DYNAMIC TEST | | BONDCS - EPA: Ø.4G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | SUMMARY OF |
| VERT. REINF: 2 # 5 | GROUTING : FULL | WALL RESPONSE |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

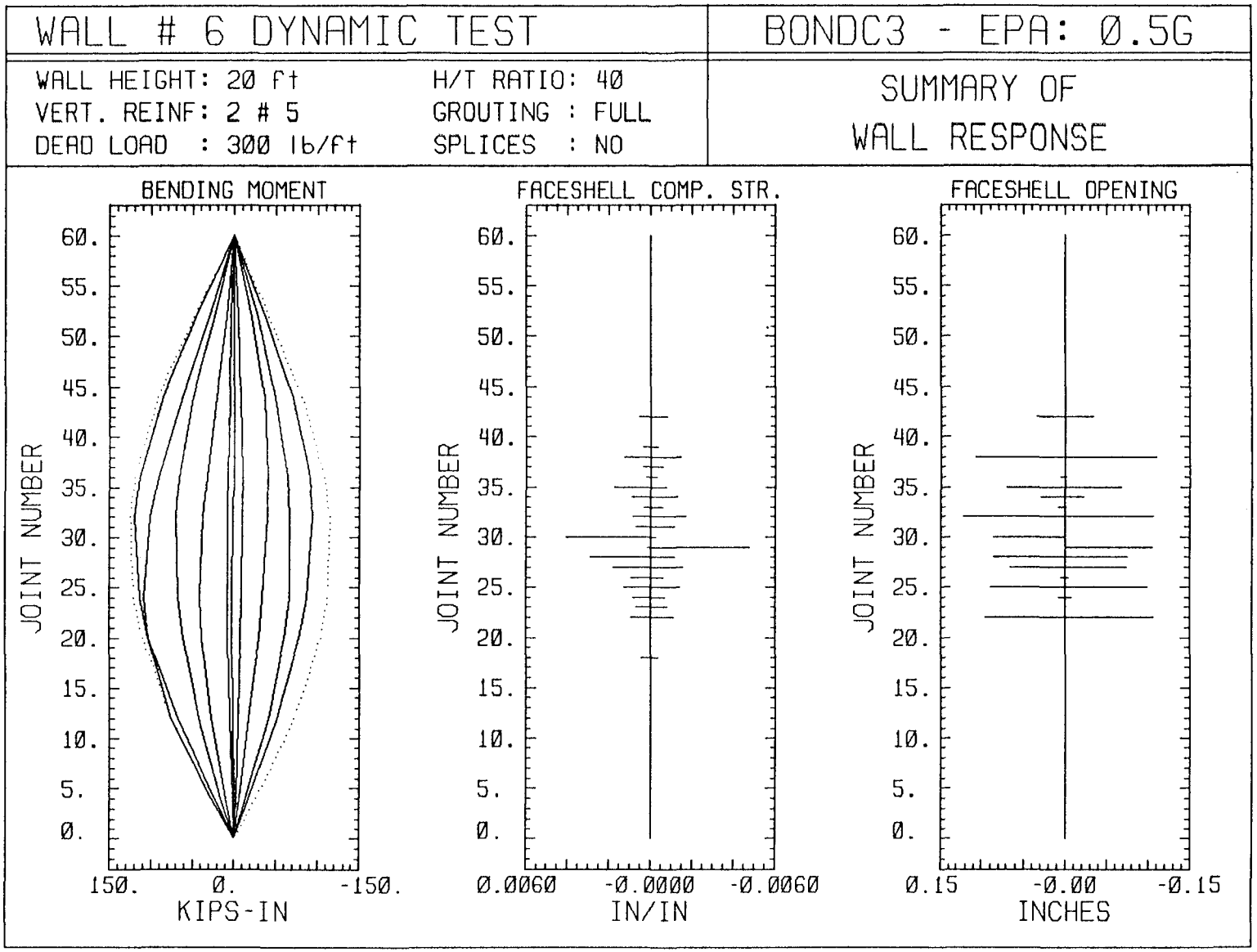



WALL # 6 DYNAMIC TEST
BONDC2 - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
Ø.
8.Ø
Ø.Ø
-8.Ø
6.Ø
-6.Ø
1.5
-1.5
INCHES
G's

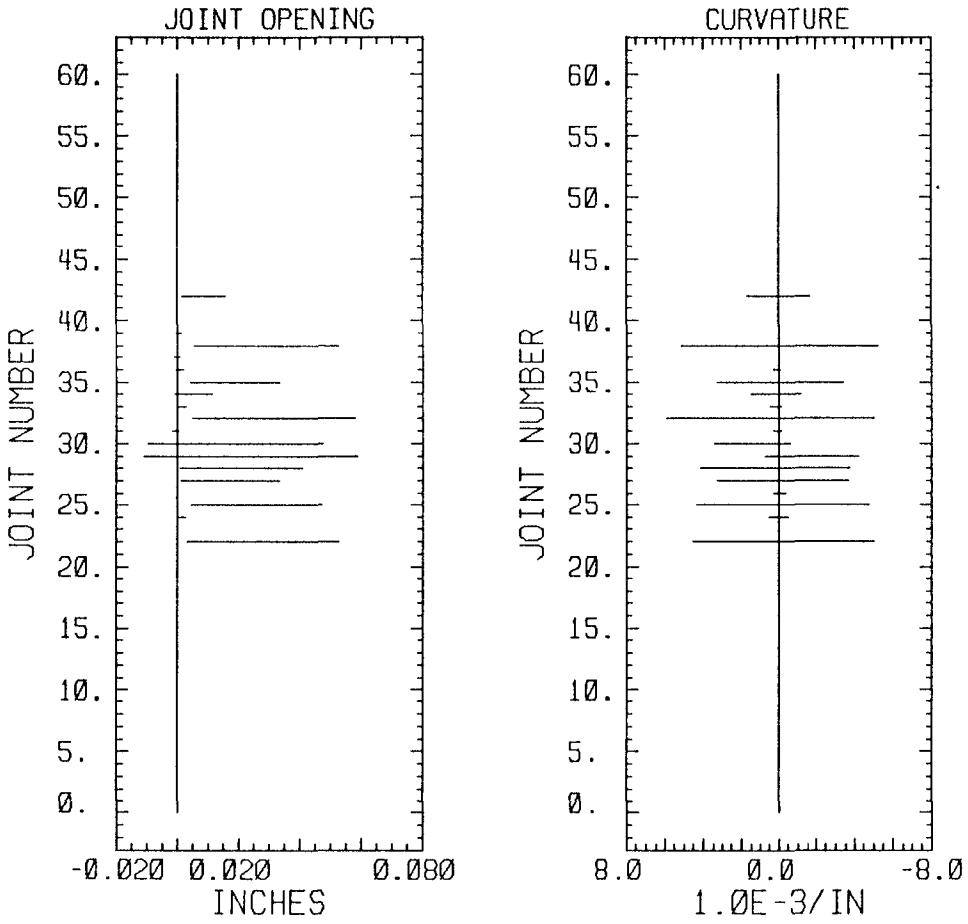

WALL # 6 DYNAMIC TEST
BONDC2 - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
FACESHELL COMP. STR.
FACESHELL OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
150.
0.
-150.
KIPS-IN
0.0030
-0.0000
-0.0030
IN/IN
0.100
0.000
-0.100
INCHES

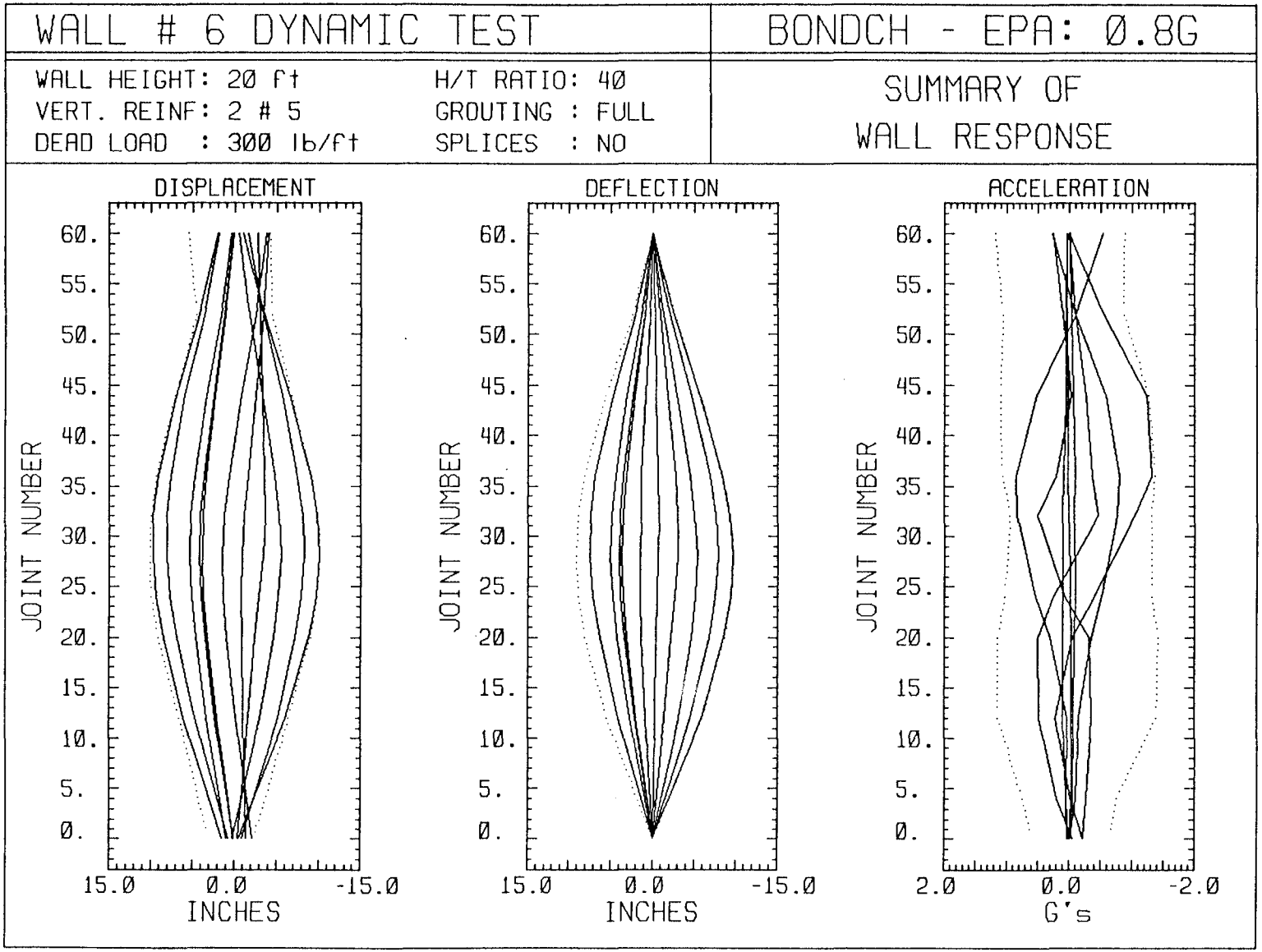

WALL # 6 DYNAMIC TEST
BONDC2 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
JOINT OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
-0.010
0.020
0.050
INCHES
CURVATURE
JOINT NUMBER
5.0
0.0
-5.0
1.0E-3/IN

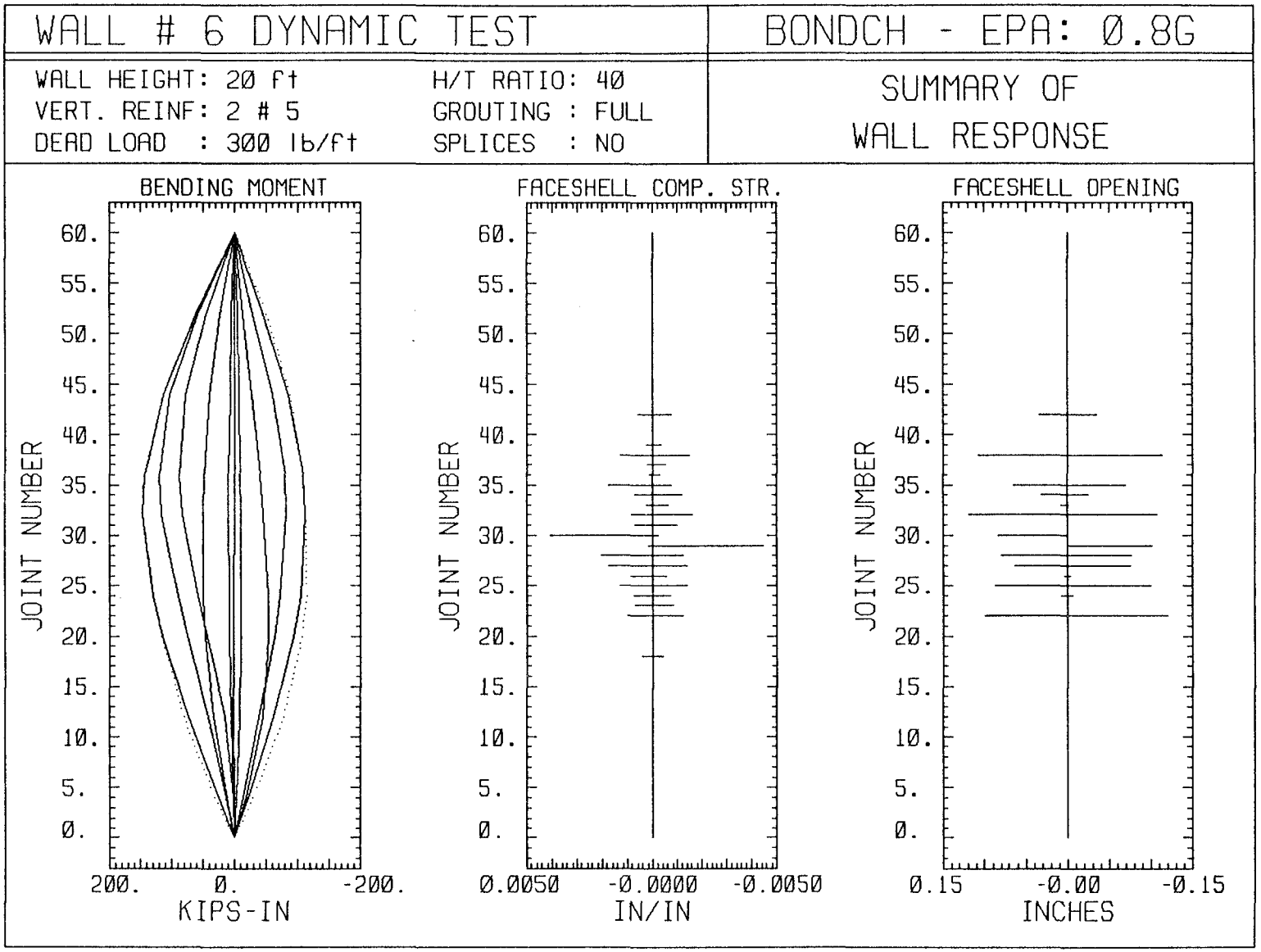

WALL # 6 DYNAMIC TEST
BONDC3 - EPA: Ø.5G
WALL HEIGHT: 2Ø ft
VERT. REINF: 2 # 5
DEAD LOAD : 3ØØ lb/ft
H/T RATIO: 4Ø
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
Ø.
15.Ø
Ø.Ø
-15.Ø
INCHES
1.5
-1.5
G's


WALL # 6 DYNAMIC TEST
BONDC3 - EPA: 0.5G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
FACESHELL COMP. STR.
FACESHELL OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
150.
0.
-150.
KIPS-IN
0.0060
-0.0000
-0.0060
IN/IN
0.15
-0.00
-0.15
INCHES

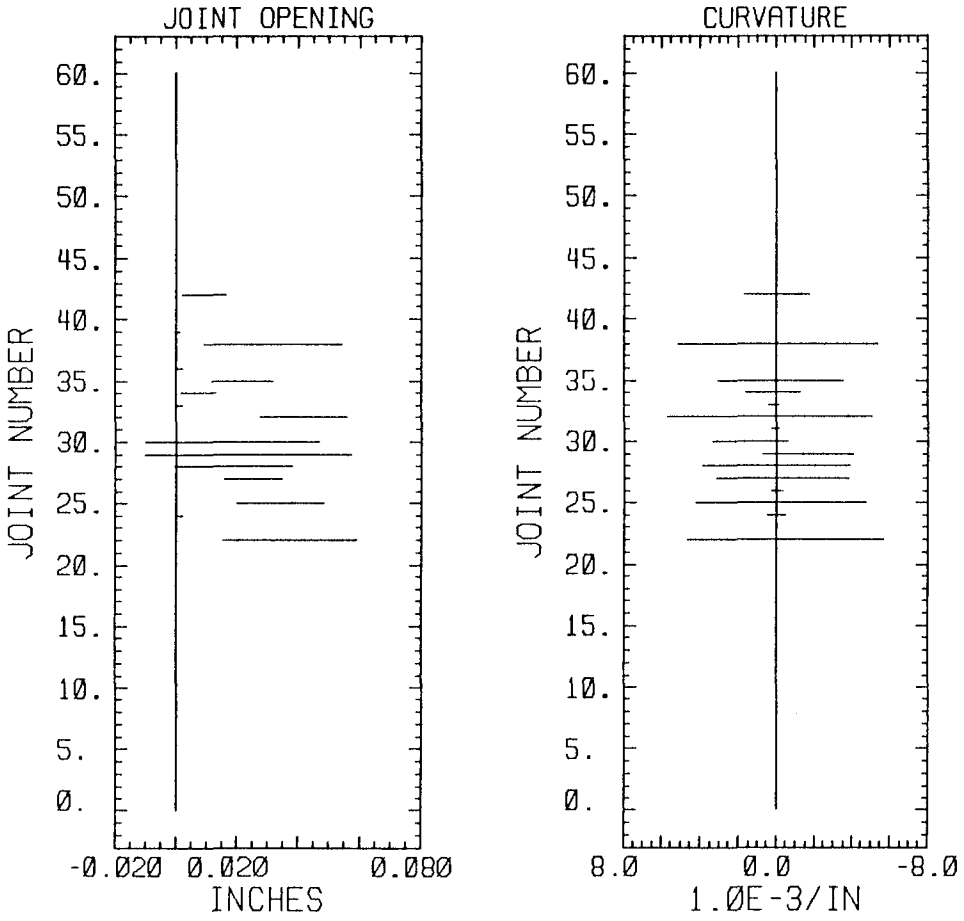
| WALL # 6 DYNAMIC TEST | | BONDC3 - EPA: Ø.5G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | SUMMARY OF |
| VERT. REINF: 2 # 5 | GROUTING : FULL | WALL RESPONSE |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

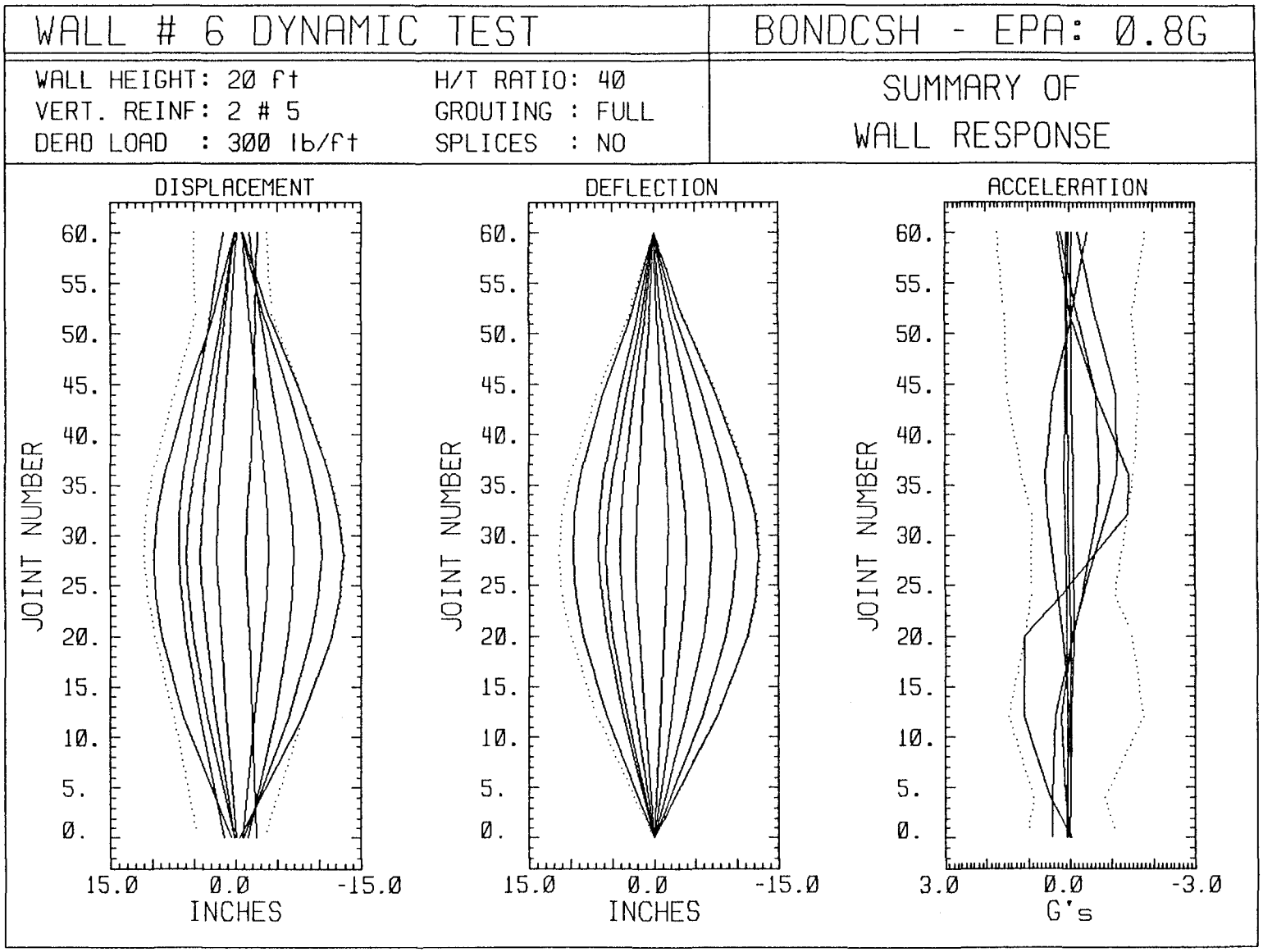


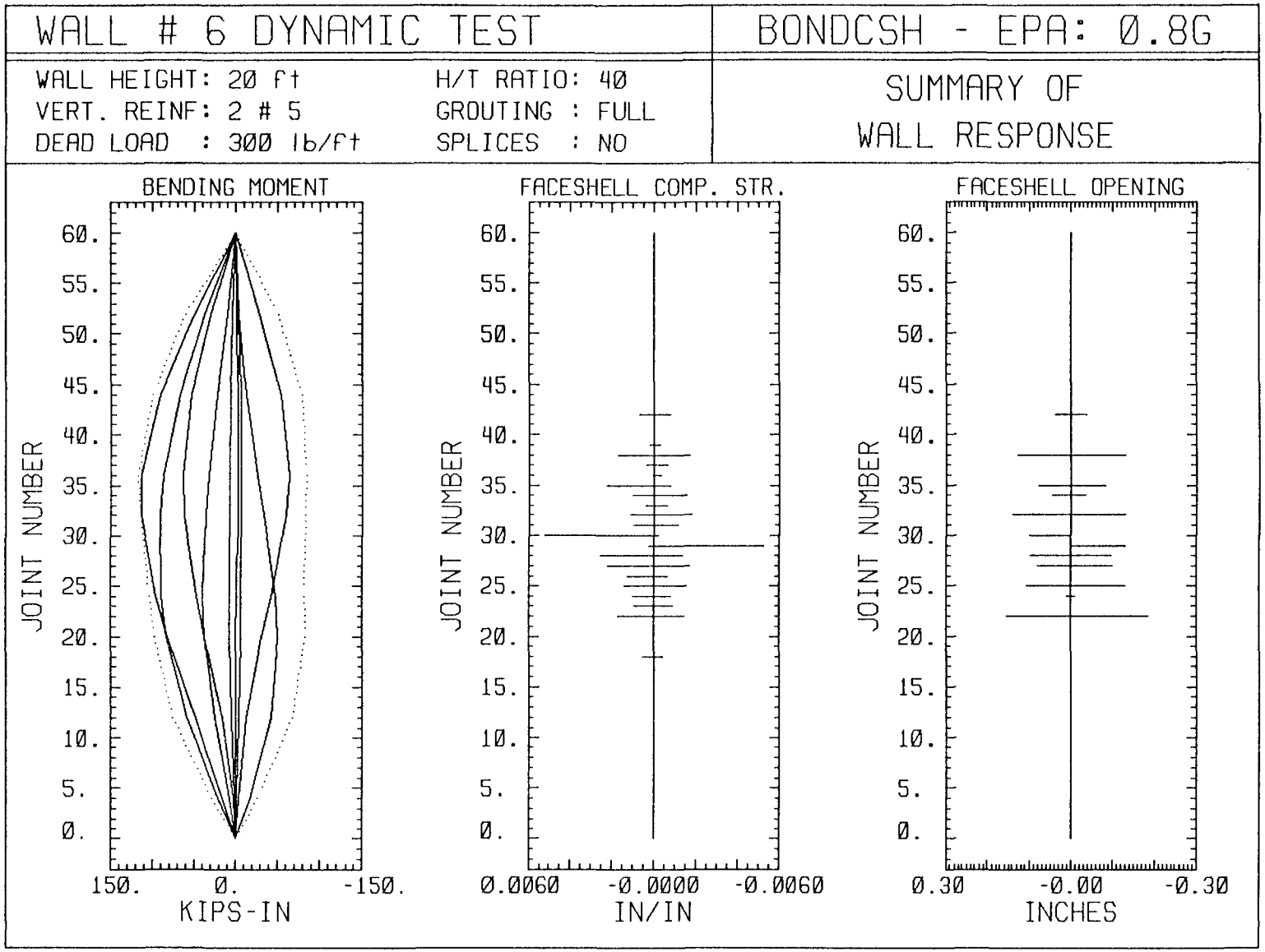

WALL # 6 DYNAMIC TEST
BONDCH - EPA: Ø.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
Ø.
15.Ø
Ø.Ø
-15.Ø
INCHES
2.Ø
-2.Ø
G's

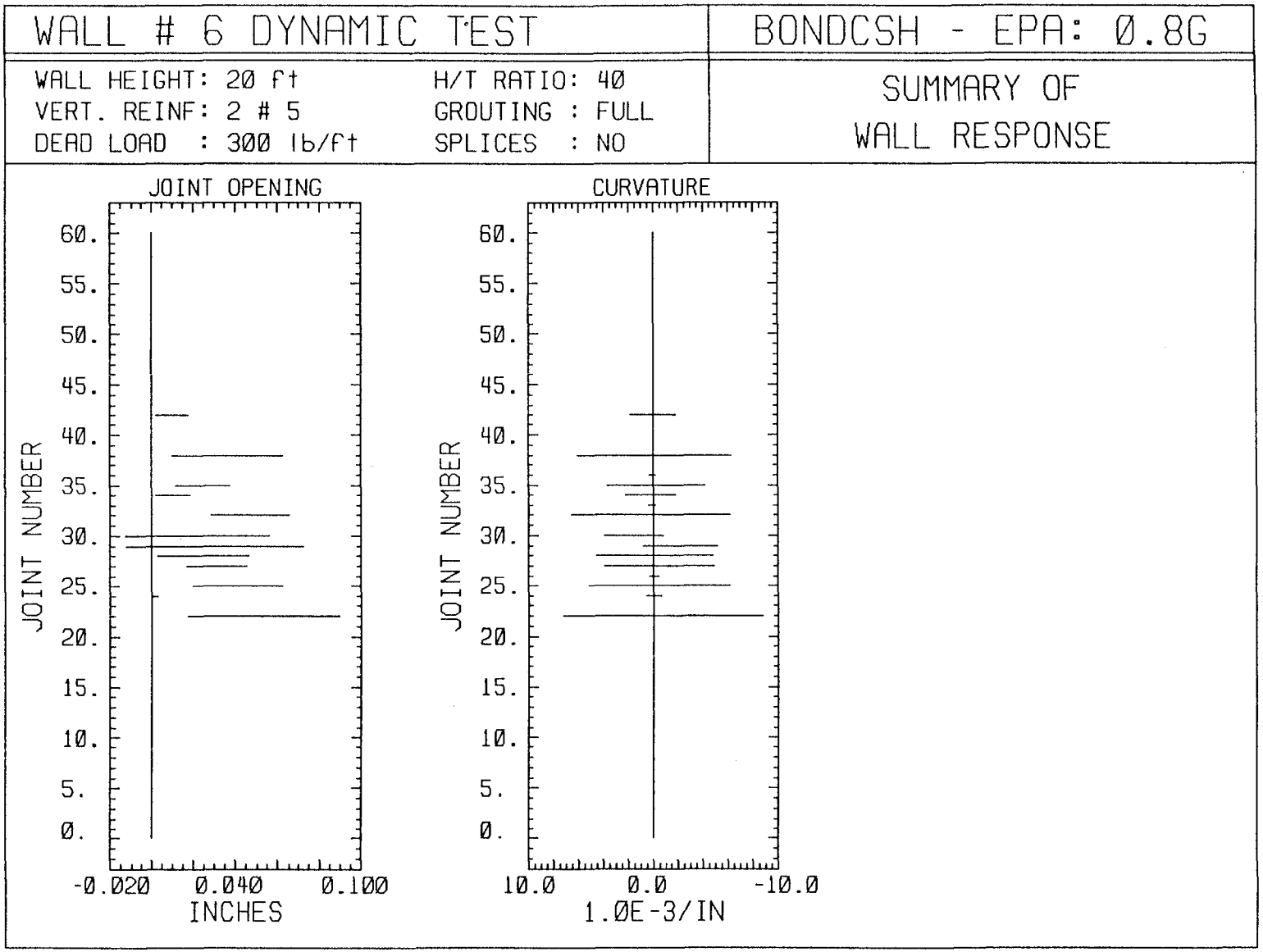

WALL # 6 DYNAMIC TEST
BONDCH - EPA: Ø.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
200.
0.
-200.
KIPS-IN
FACESHELL COMP. STR.
JOINT NUMBER
0.0050
-0.0000
-0.0050
IN/IN
FACESHELL OPENING
JOINT NUMBER
0.15
-0.00
-0.15
INCHES

| WALL # 6 DYNAMIC TEST | | BONDCH - EPA: 0.8G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 300 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | SUMMARY OF<br>WALL RESPONSE |

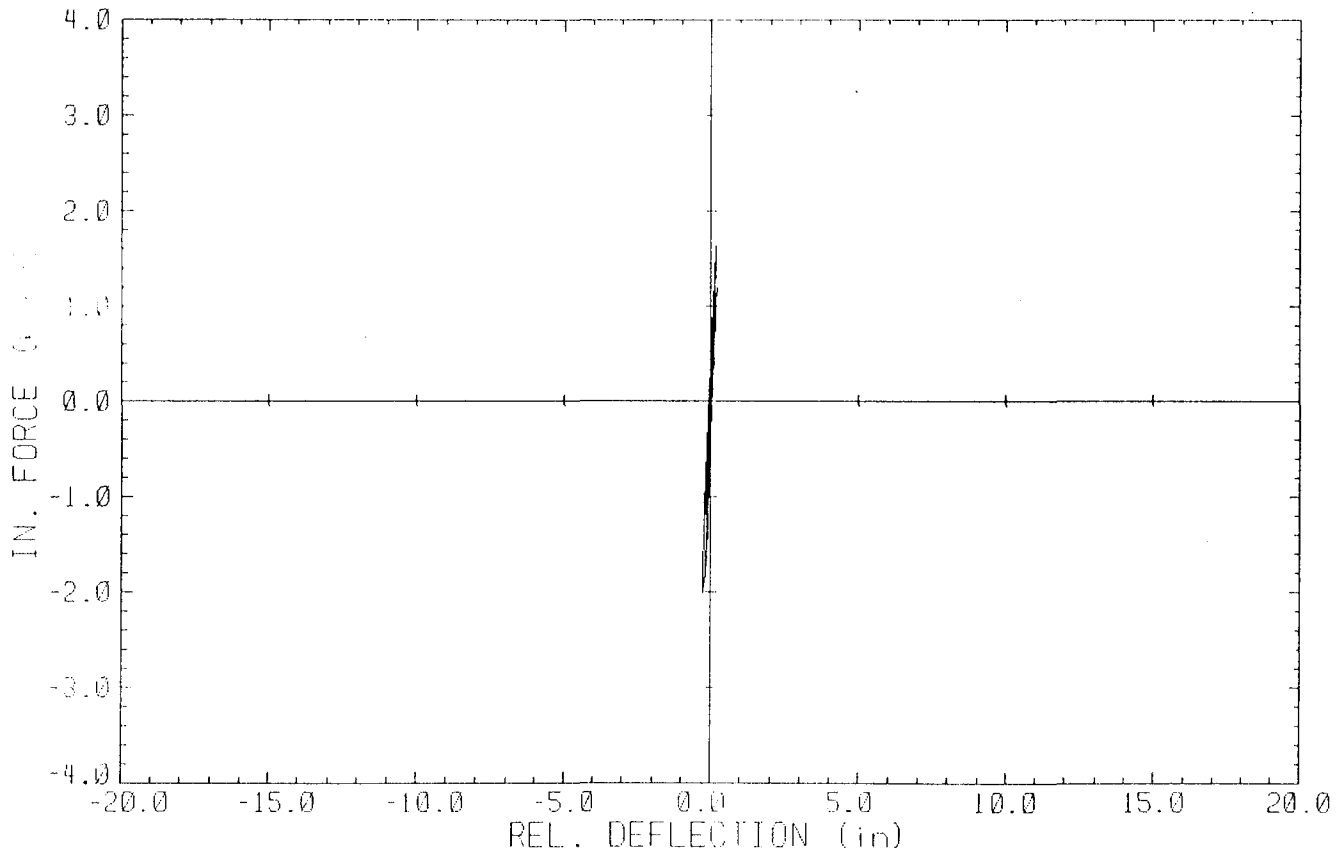



WALL # 6 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
DISPLACEMENT
DEFLECTION
ACCELERATION
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
15.0
0.0
-15.0
INCHES
3.0
-3.0
G's

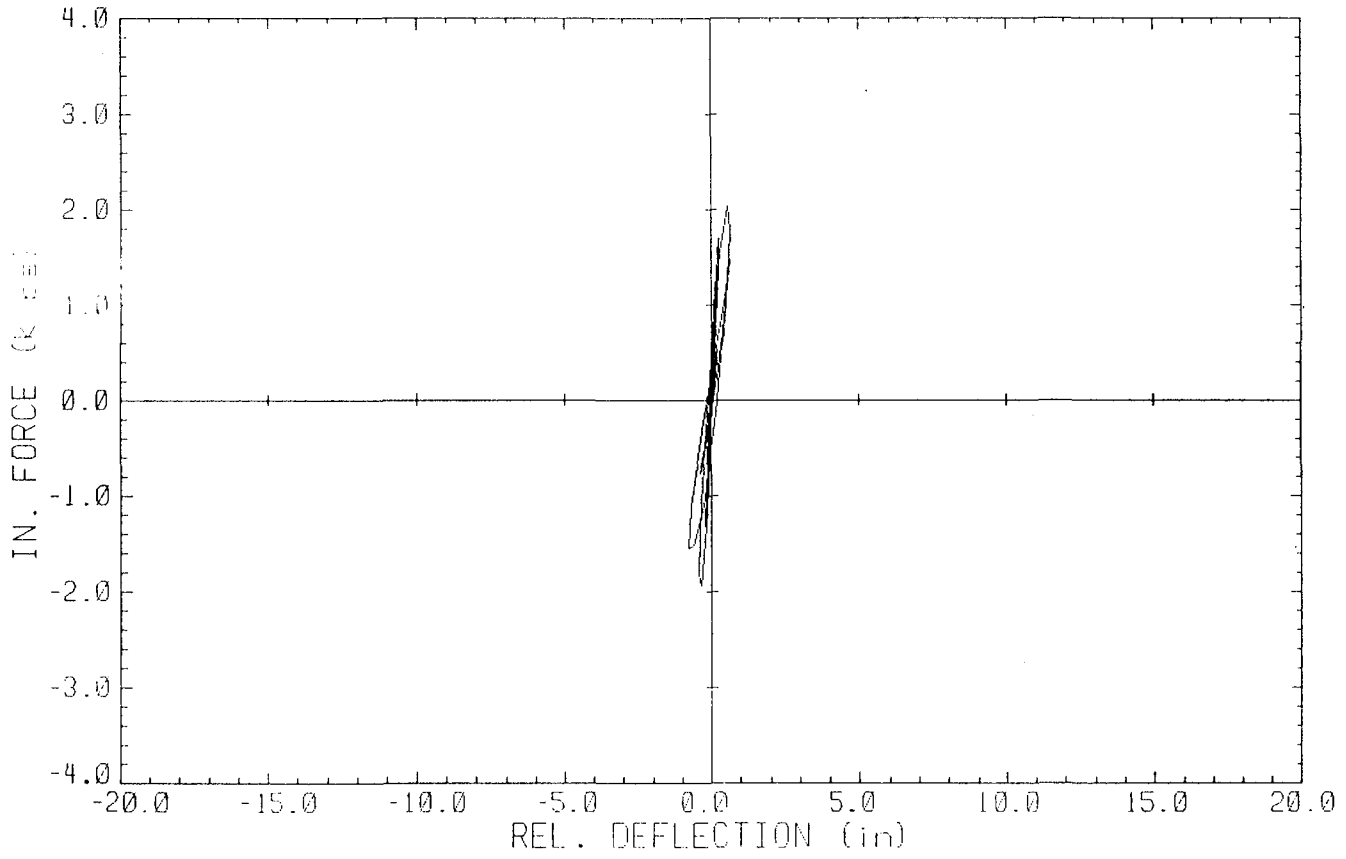

WALL # 6 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
BENDING MOMENT
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
150.
0.
-150.
KIPS-IN
FACESHELL COMP. STR.
0.0060
-0.0000
-0.0060
IN/IN
FACESHELL OPENING
0.30
-0.00
-0.30
INCHES

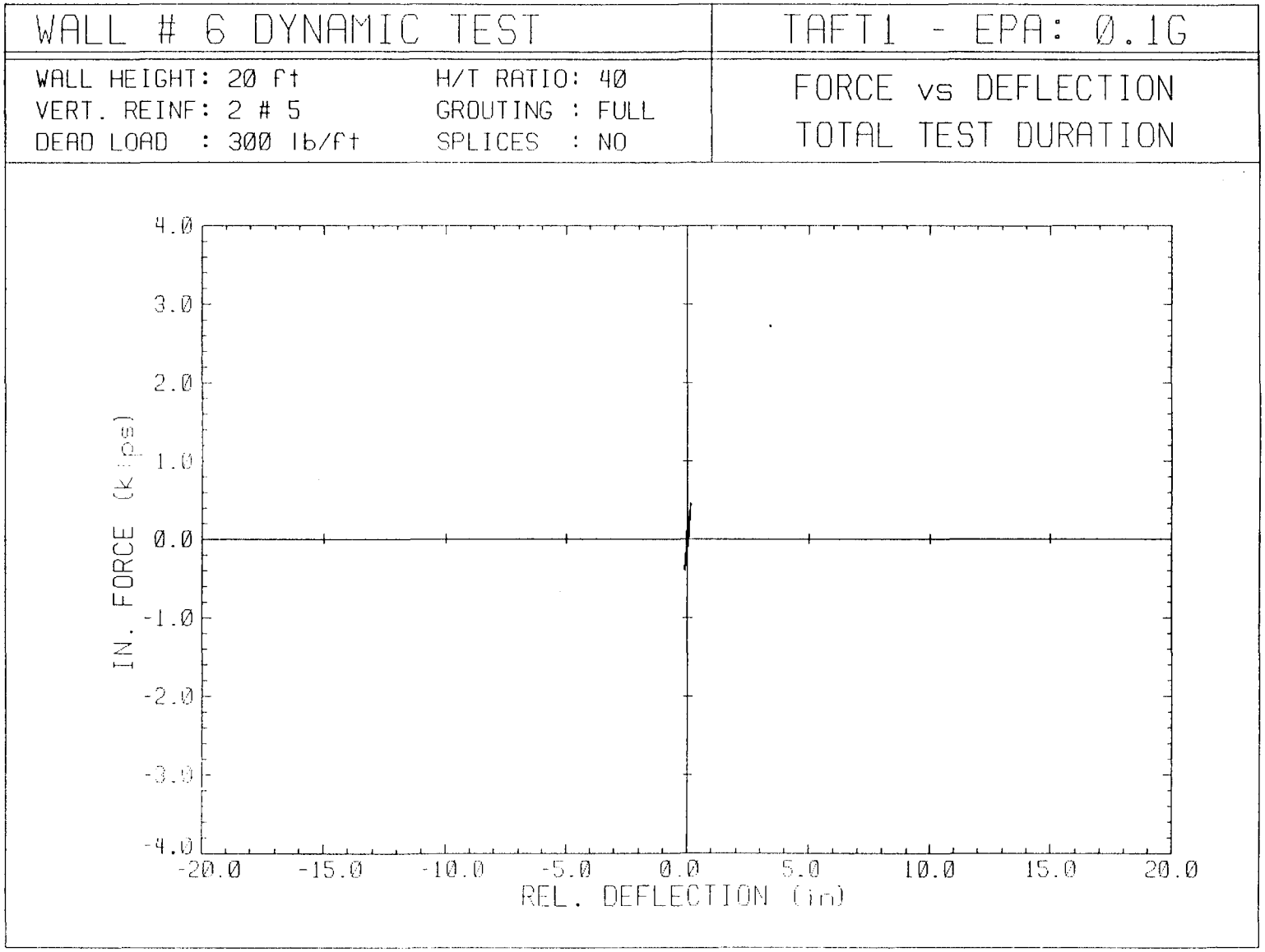

WALL # 6 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
SUMMARY OF
WALL RESPONSE
JOINT OPENING
JOINT NUMBER
60.
55.
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
0.
-0.020
0.040
0.100
INCHES
CURVATURE
JOINT NUMBER
10.0
0.0
-10.0
1.0E-3/IN

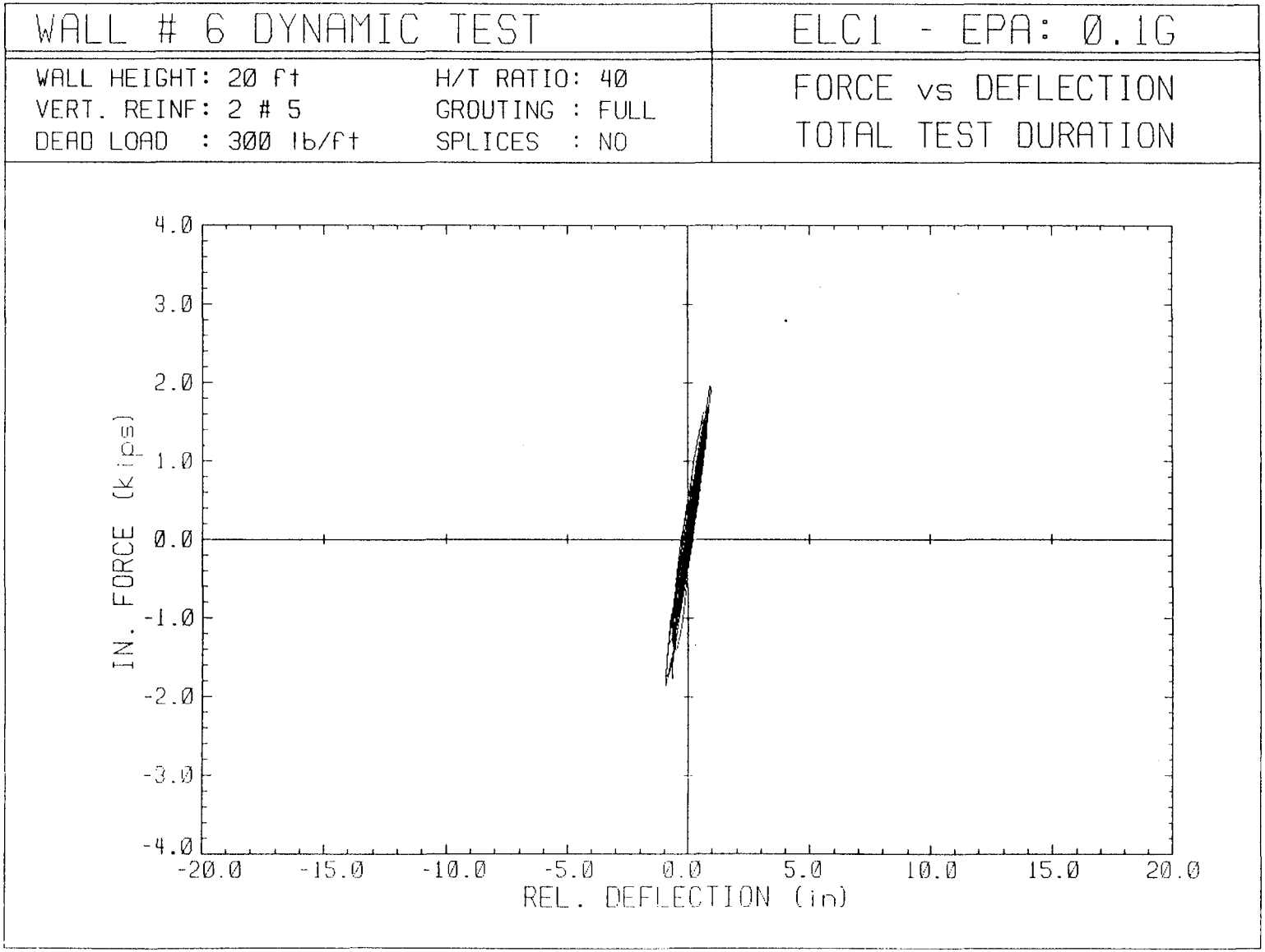
| WALL # 6 DYNAMIC TEST | | MSI - EPA: 0.1G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | FORCE vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

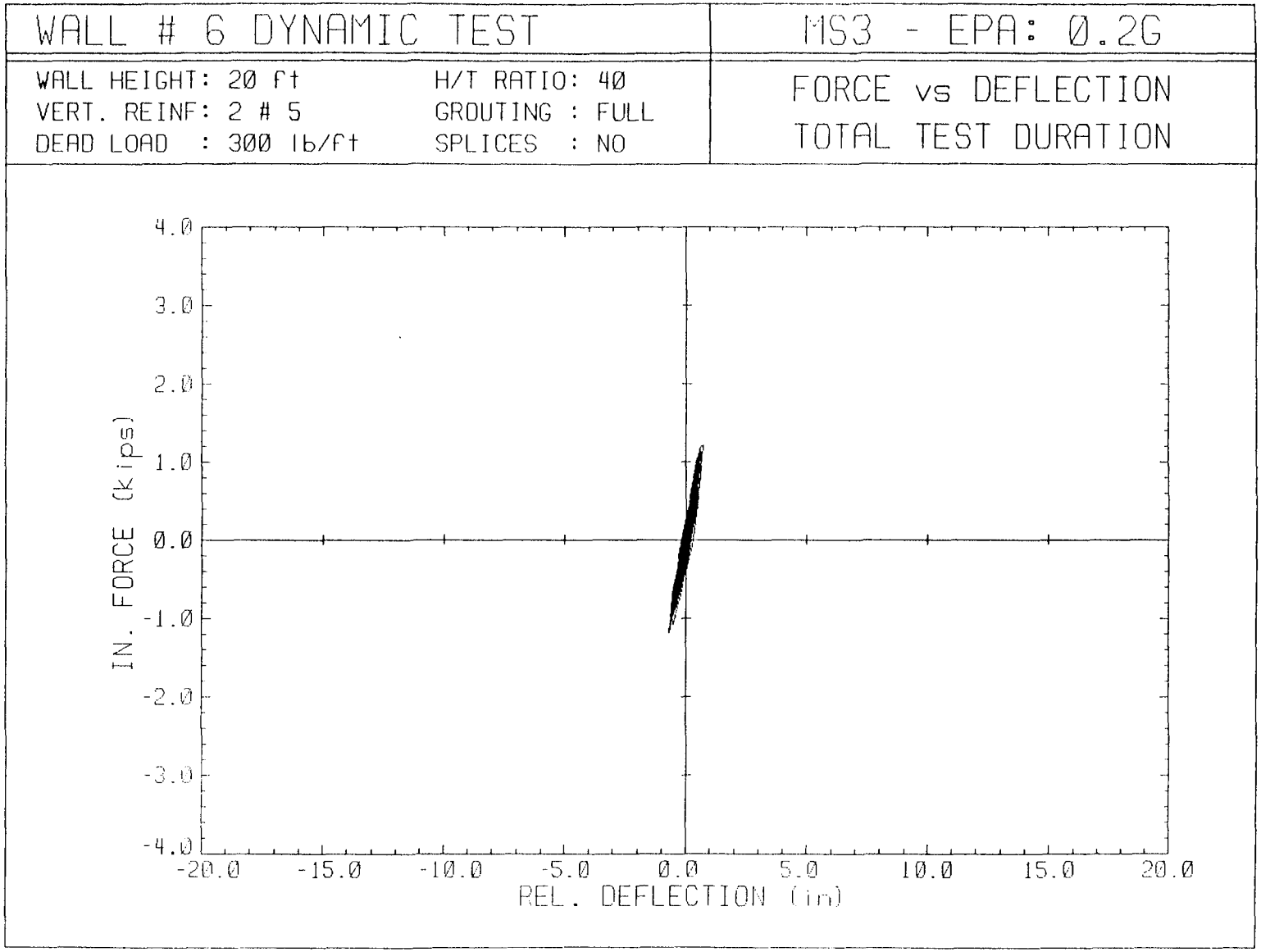


| WALL # 6 DYNAMIC TEST | | MS2 - EPA: 0.1G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | FORCE vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

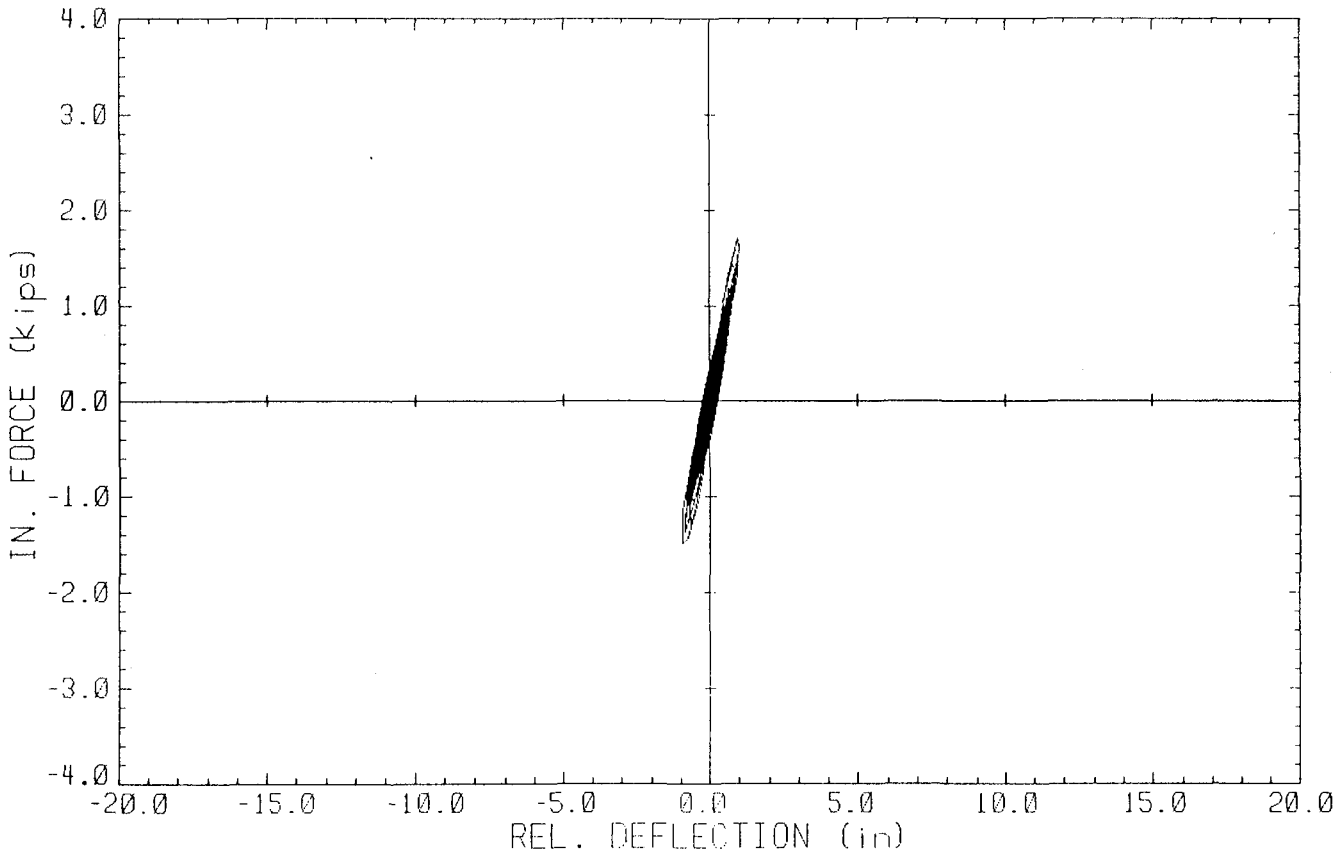



WALL # 6 DYNAMIC TEST
TAFT1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

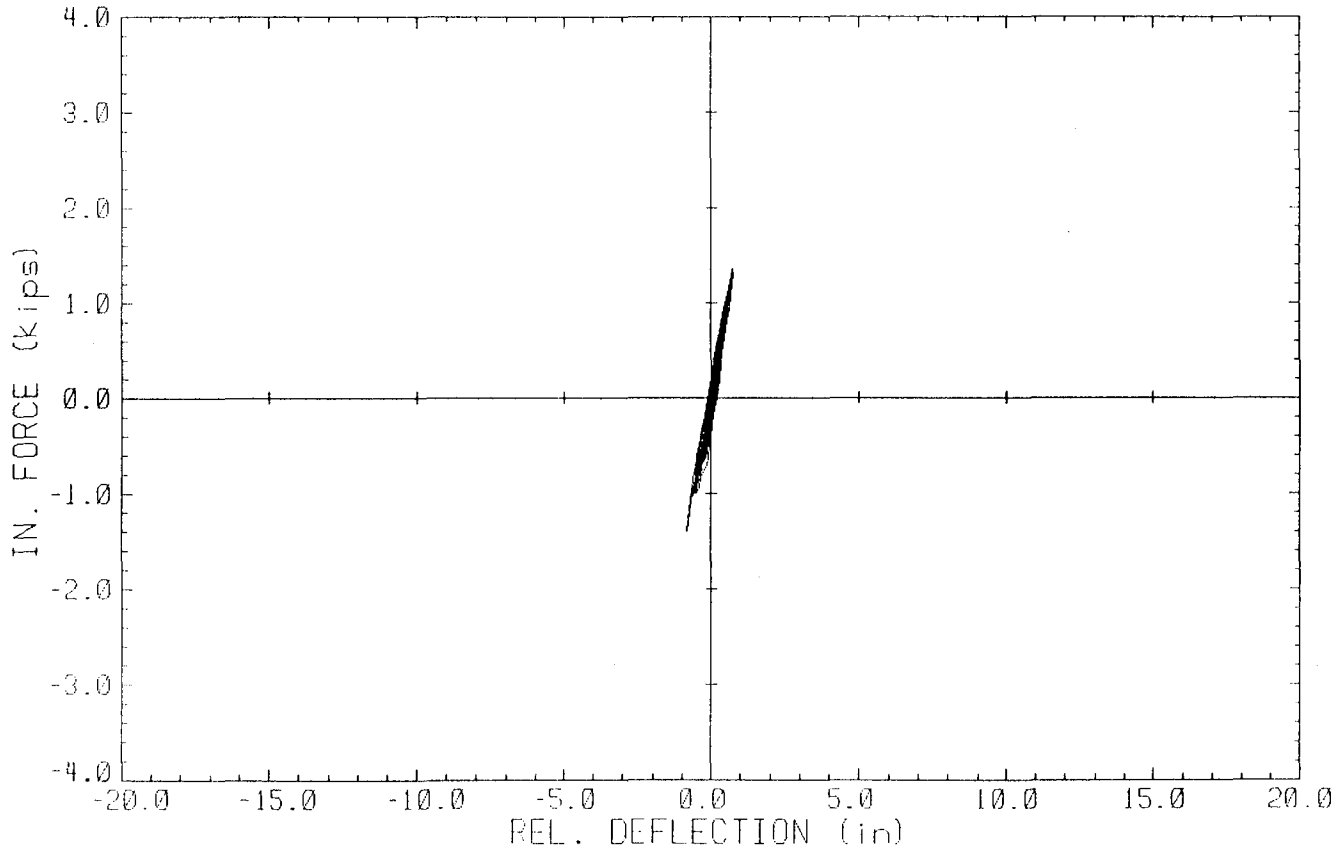

WALL # 6 DYNAMIC TEST
ELC1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

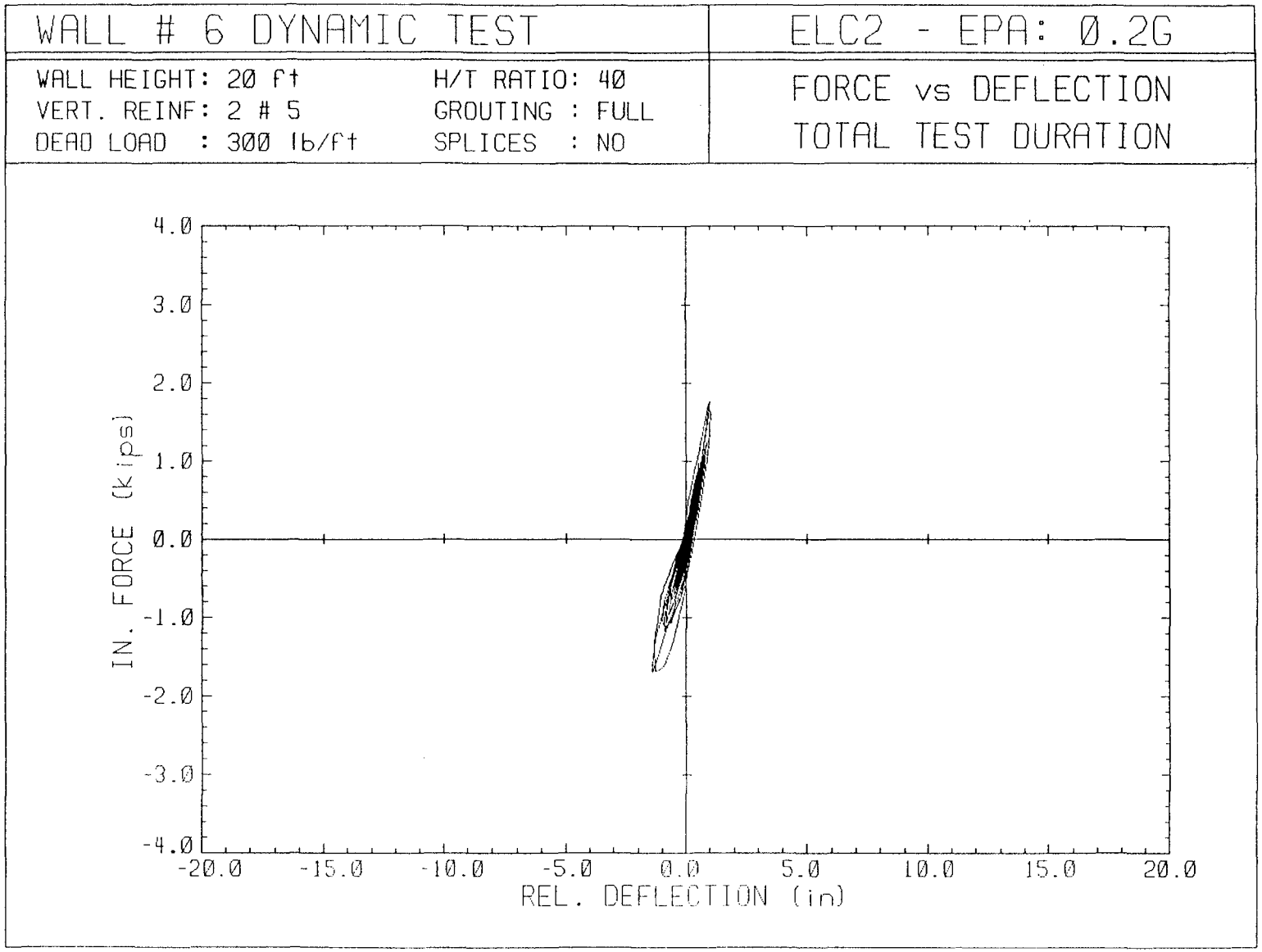

WALL # 6 DYNAMIC TEST
MS3 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

| WALL # 6 DYNAMIC TEST | | MS4 - EPA: 0.2G |
|---|---|---|
| WALL HEIGHT: 20 ft<br>VERT. REINF: 2 # 5<br>DEAD LOAD : 300 lb/ft | H/T RATIO: 40<br>GROUTING : FULL<br>SPLICES : NO | FORCE vs DEFLECTION<br>TOTAL TEST DURATION |

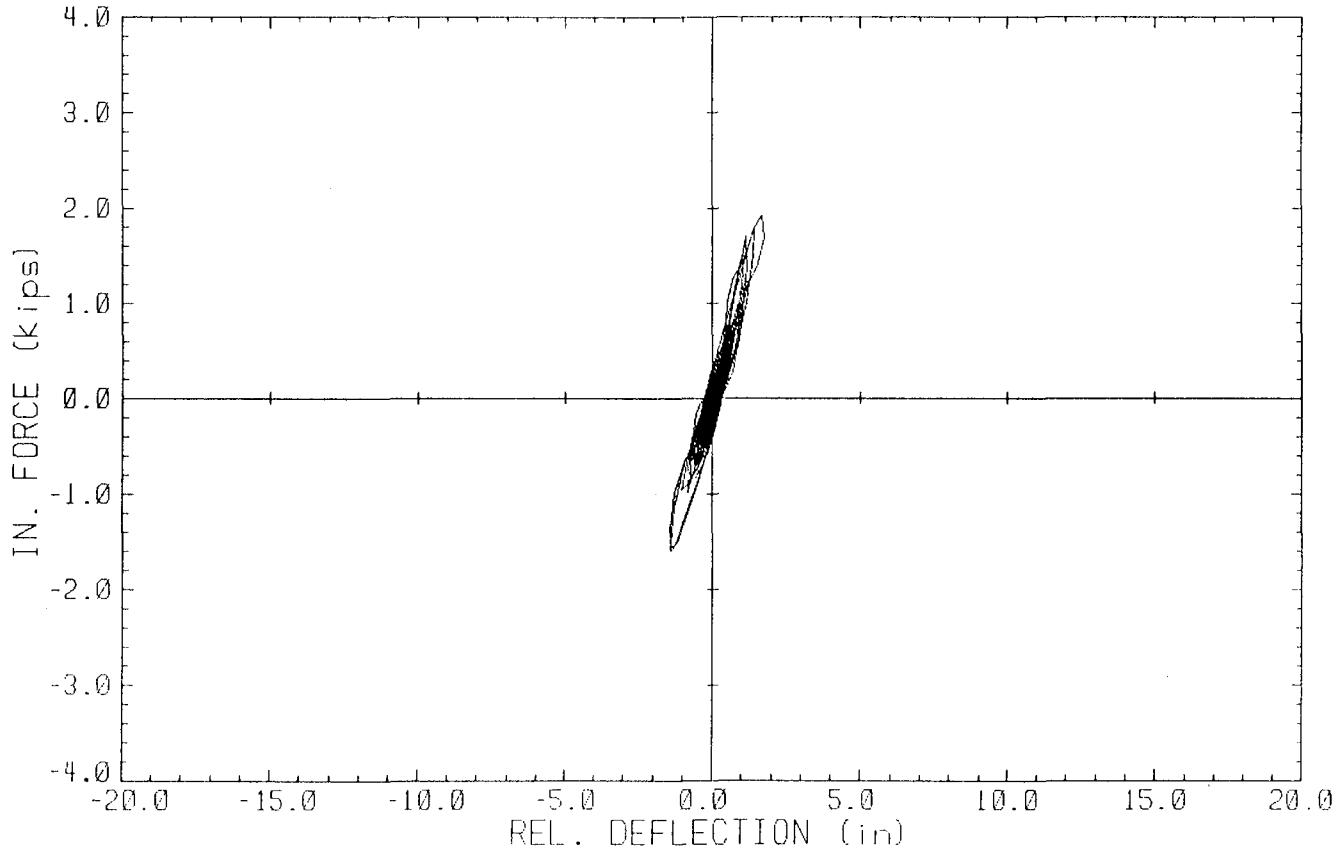


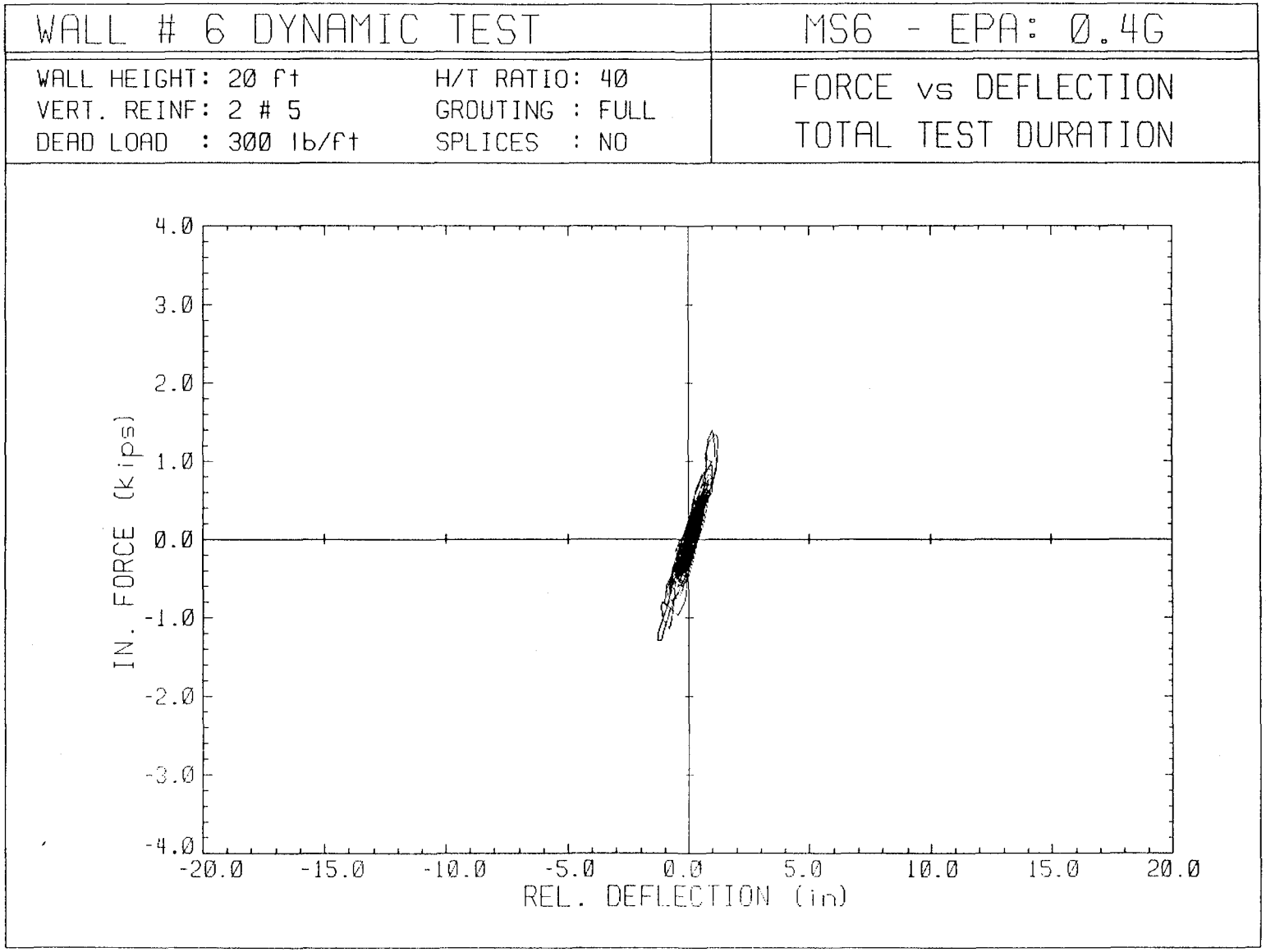
| WALL # 6 DYNAMIC TEST | | TAFT2 - EPA: 0.2G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | FORCE vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |



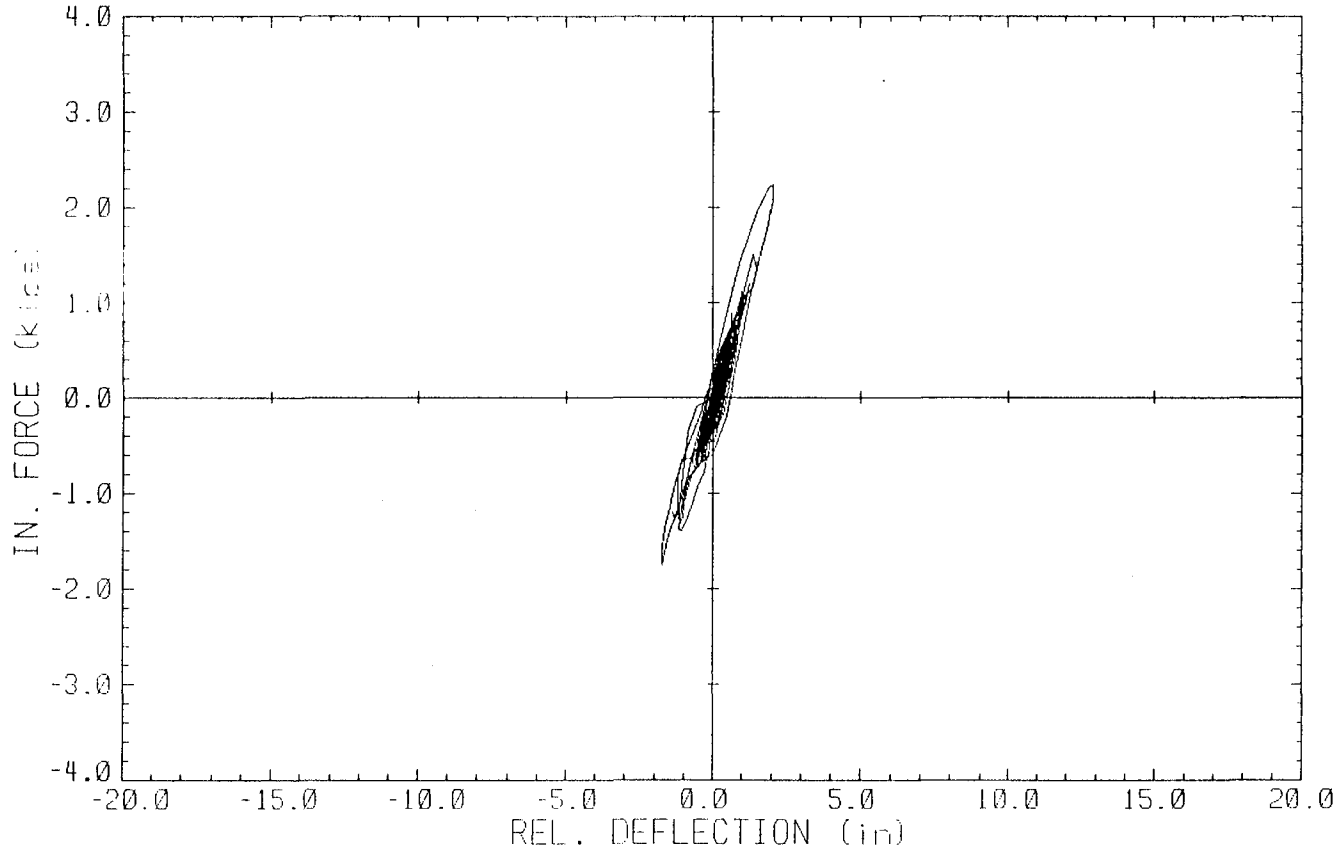

WALL # 6 DYNAMIC TEST
ELC2 - EPA: Ø.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

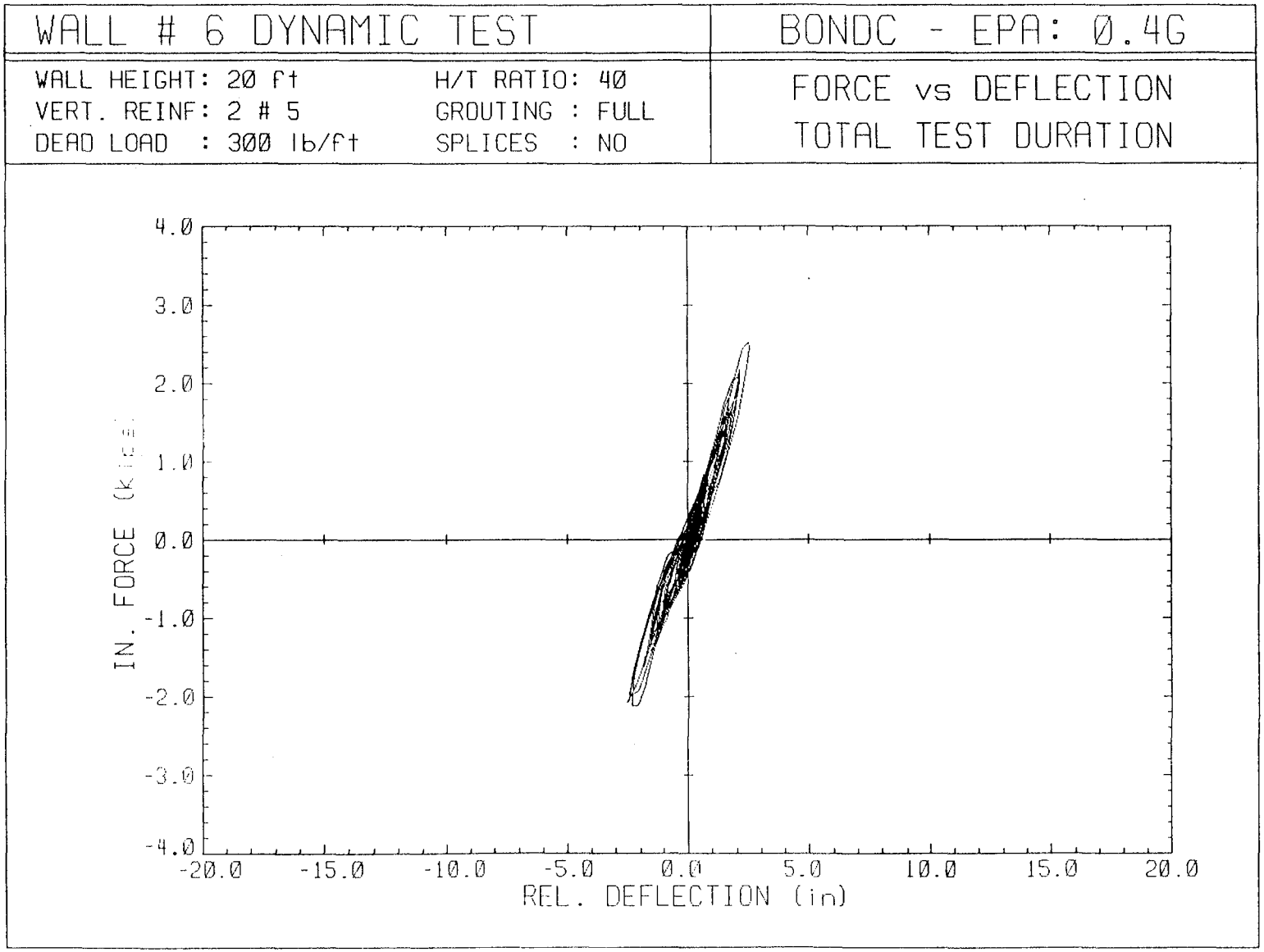
| WALL # 6 DYNAMIC TEST | | MS5 - EPA: Ø.4G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | FORCE vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |



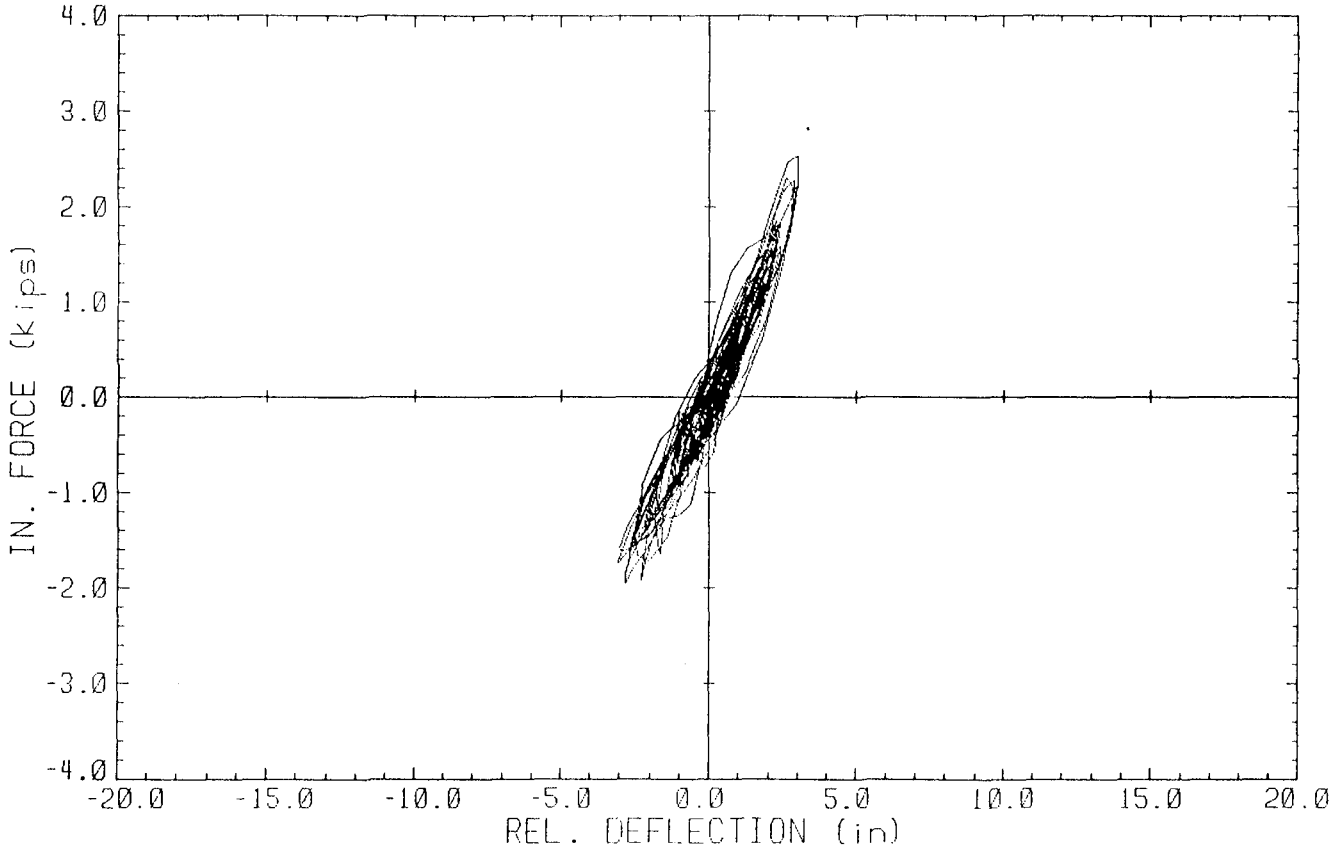

WALL # 6 DYNAMIC TEST
MS6 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

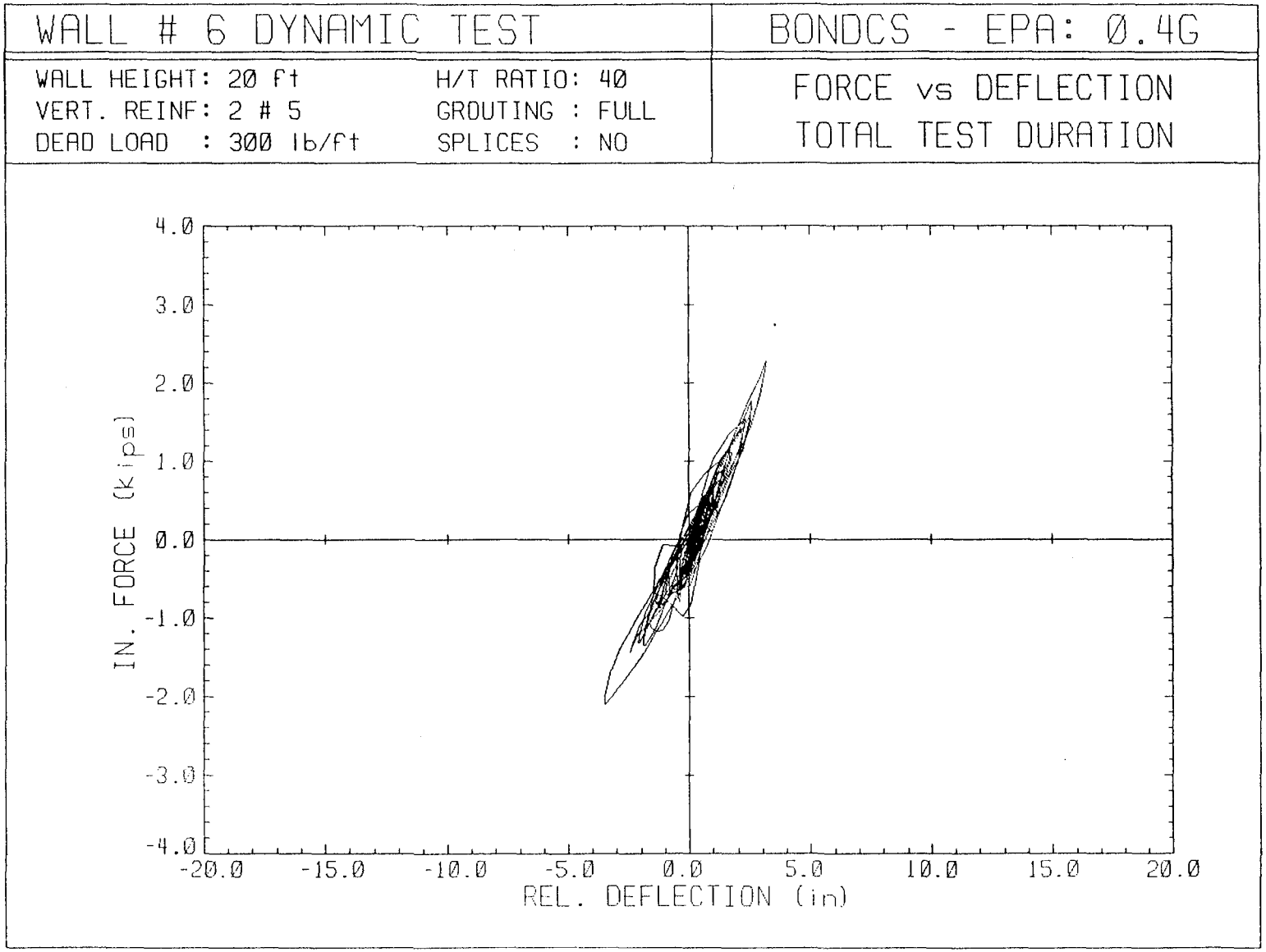
| WALL # 6 DYNAMIC TEST | | ELC - EPA: 0.4G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | FORCE vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

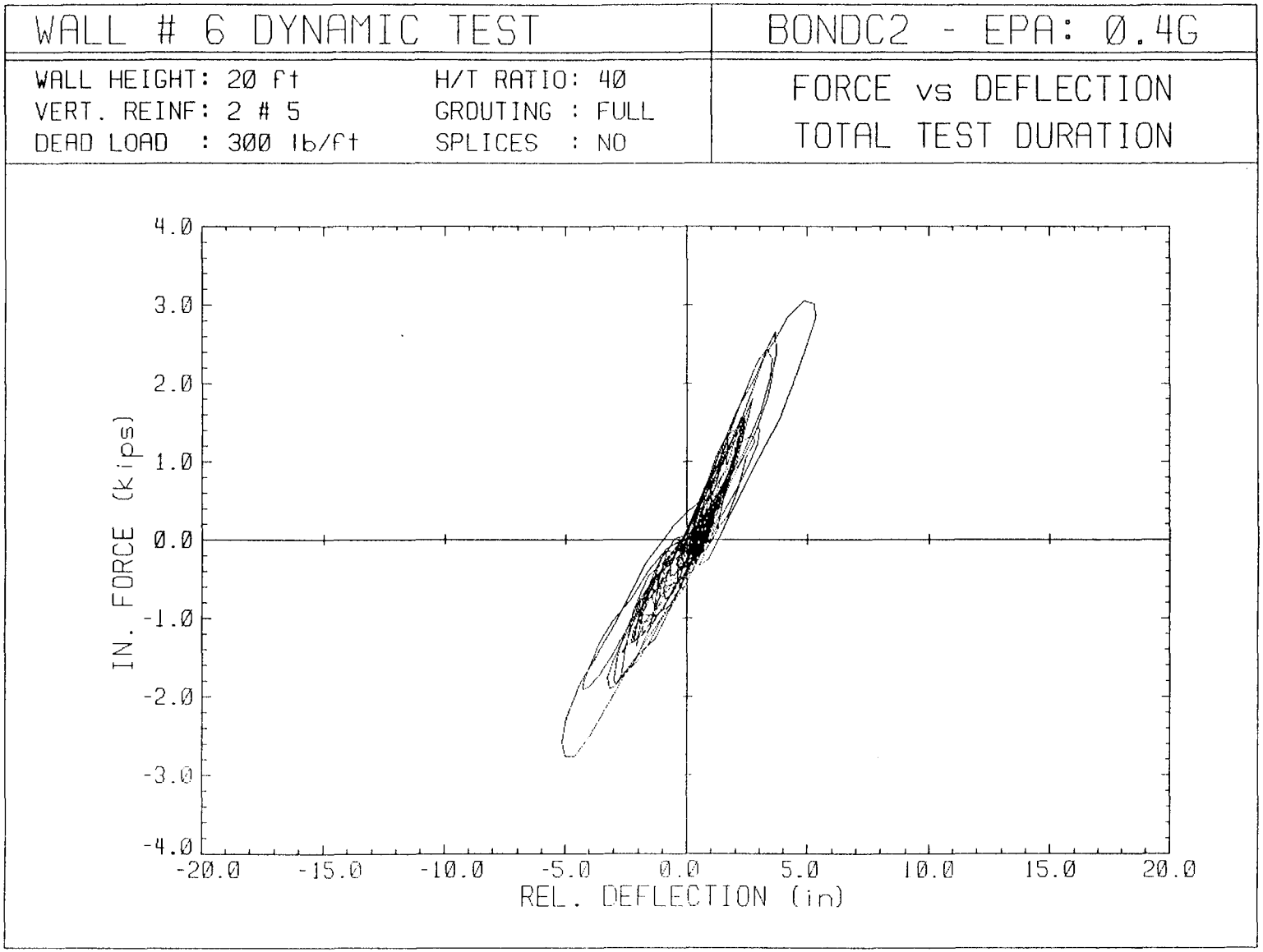


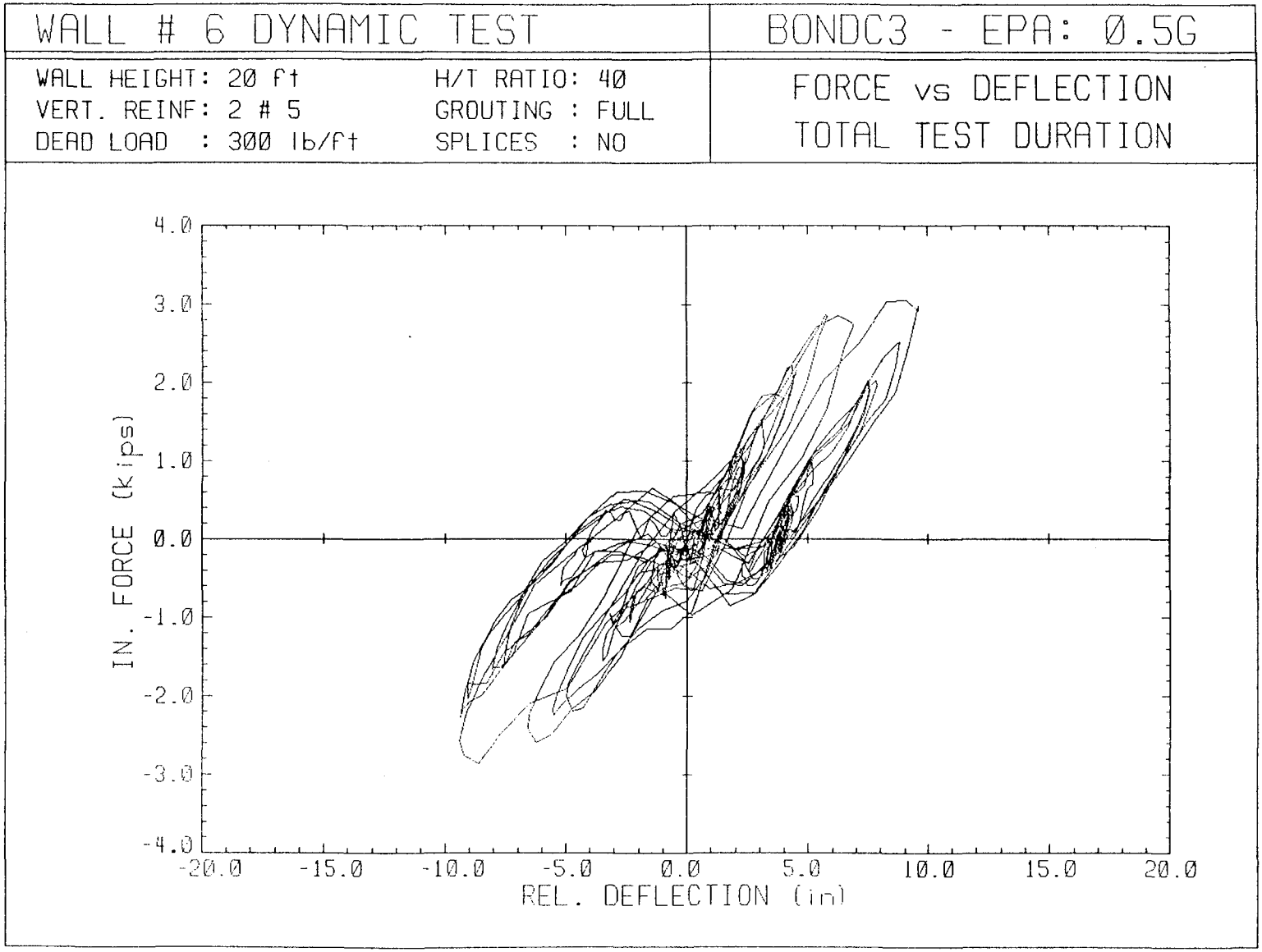

WALL # 6 DYNAMIC TEST
BONDC - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

| WALL # 6 DYNAMIC TEST | | TAFTS - EPA: Ø.4G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | FORCE vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

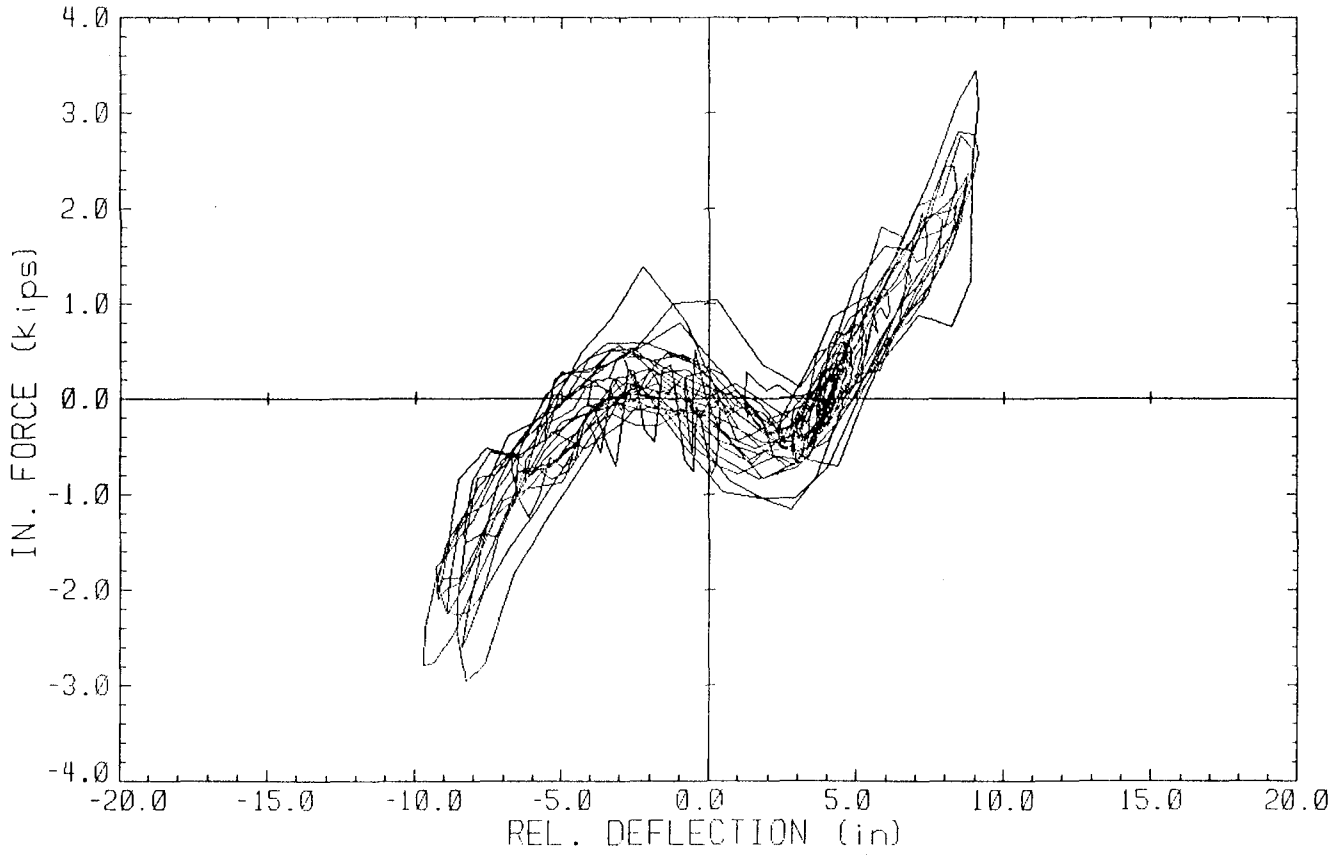


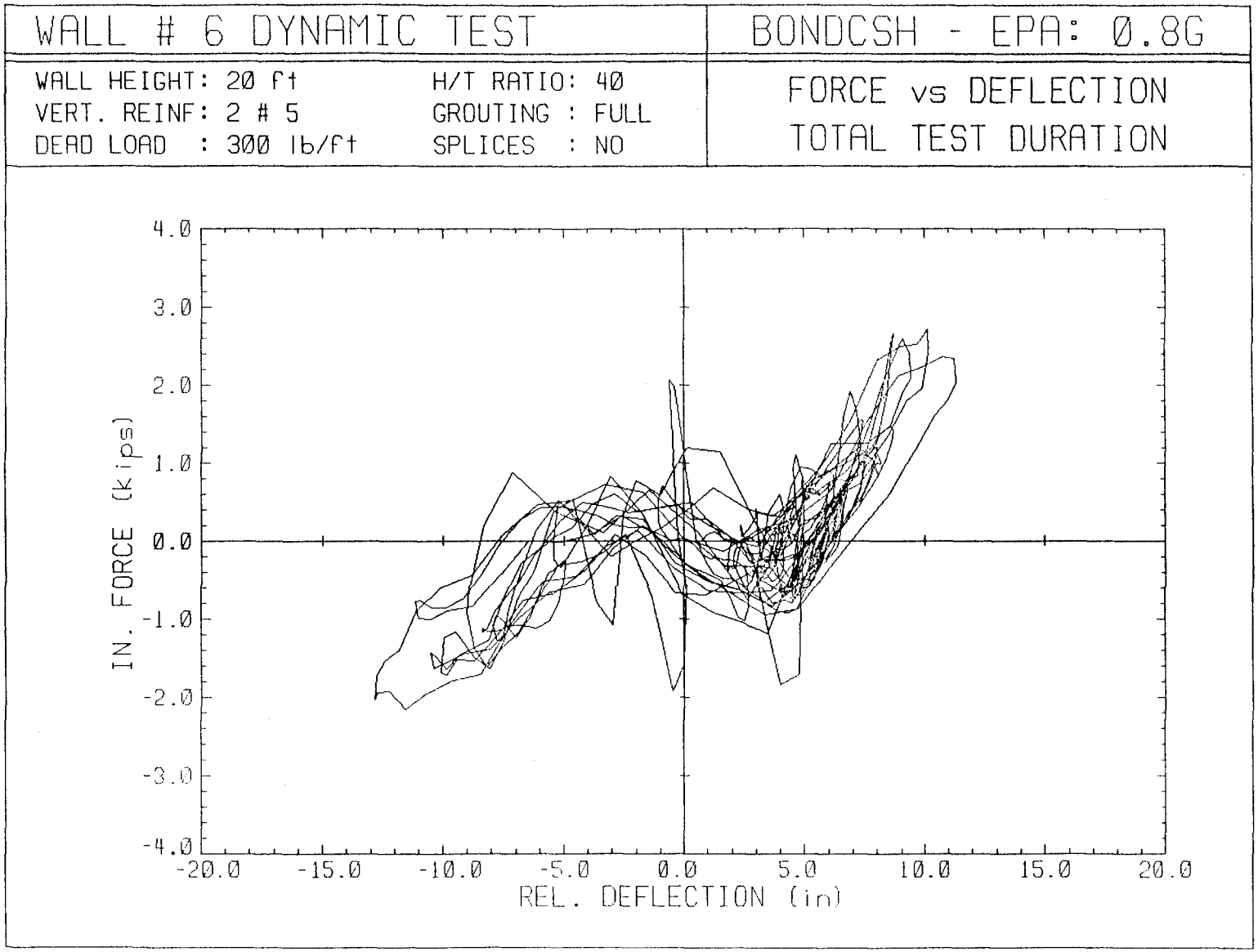

WALL # 6 DYNAMIC TEST
BONDCS - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
Ø.Ø
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)


WALL # 6 DYNAMIC TEST
BONDC2 - EPA: 0.4G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 300 lb/ft
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

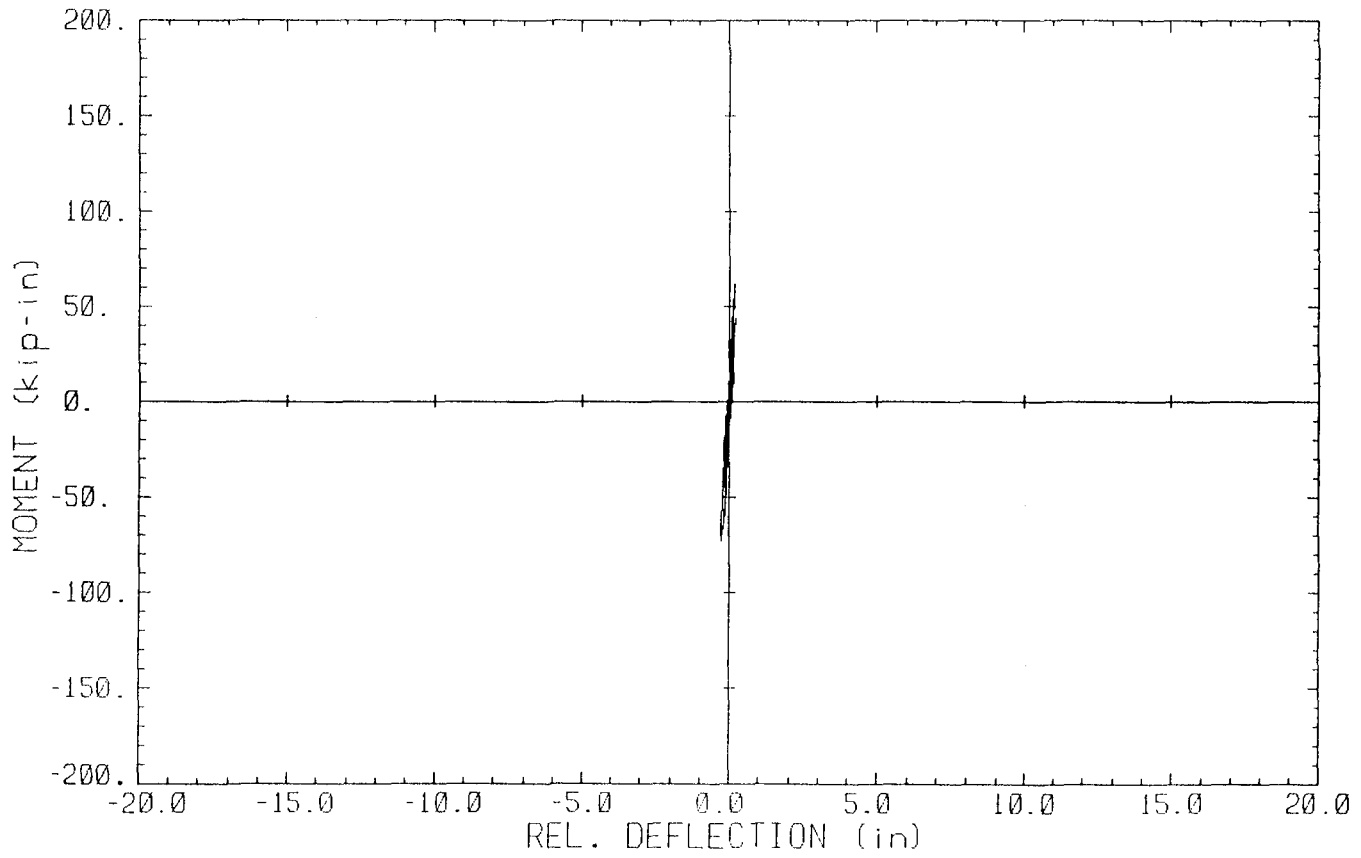

WALL # 6 DYNAMIC TEST
BONDC3 - EPA: Ø.5G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
Ø.Ø
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

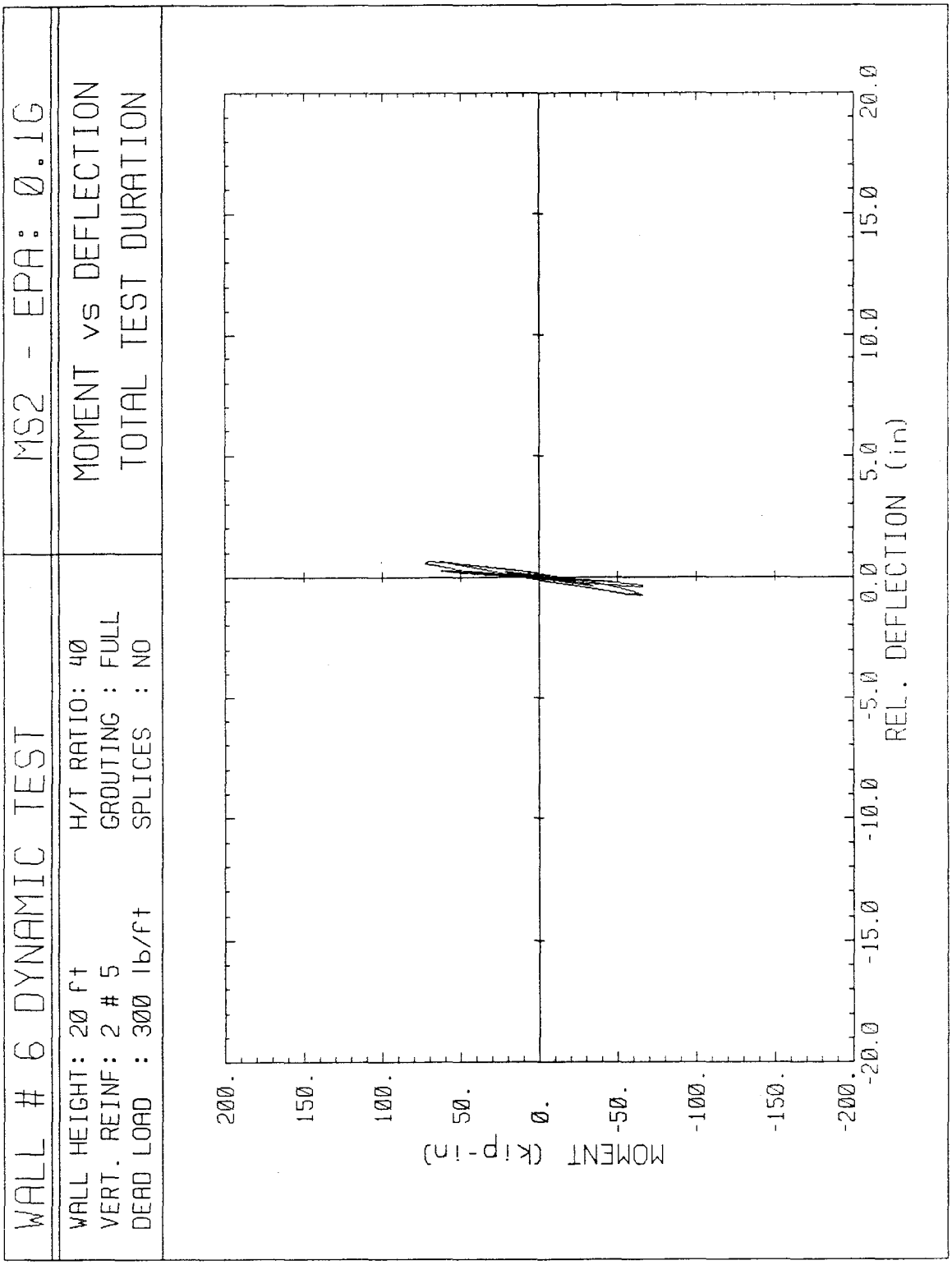
| WALL # 6 DYNAMIC TEST | | BONDCH - EPA: Ø.8G |
|---|---|---|
| WALL HEIGHT: 2Ø ft | H/T RATIO: 4Ø | FORCE vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 3ØØ lb/ft | SPLICES : NO | |



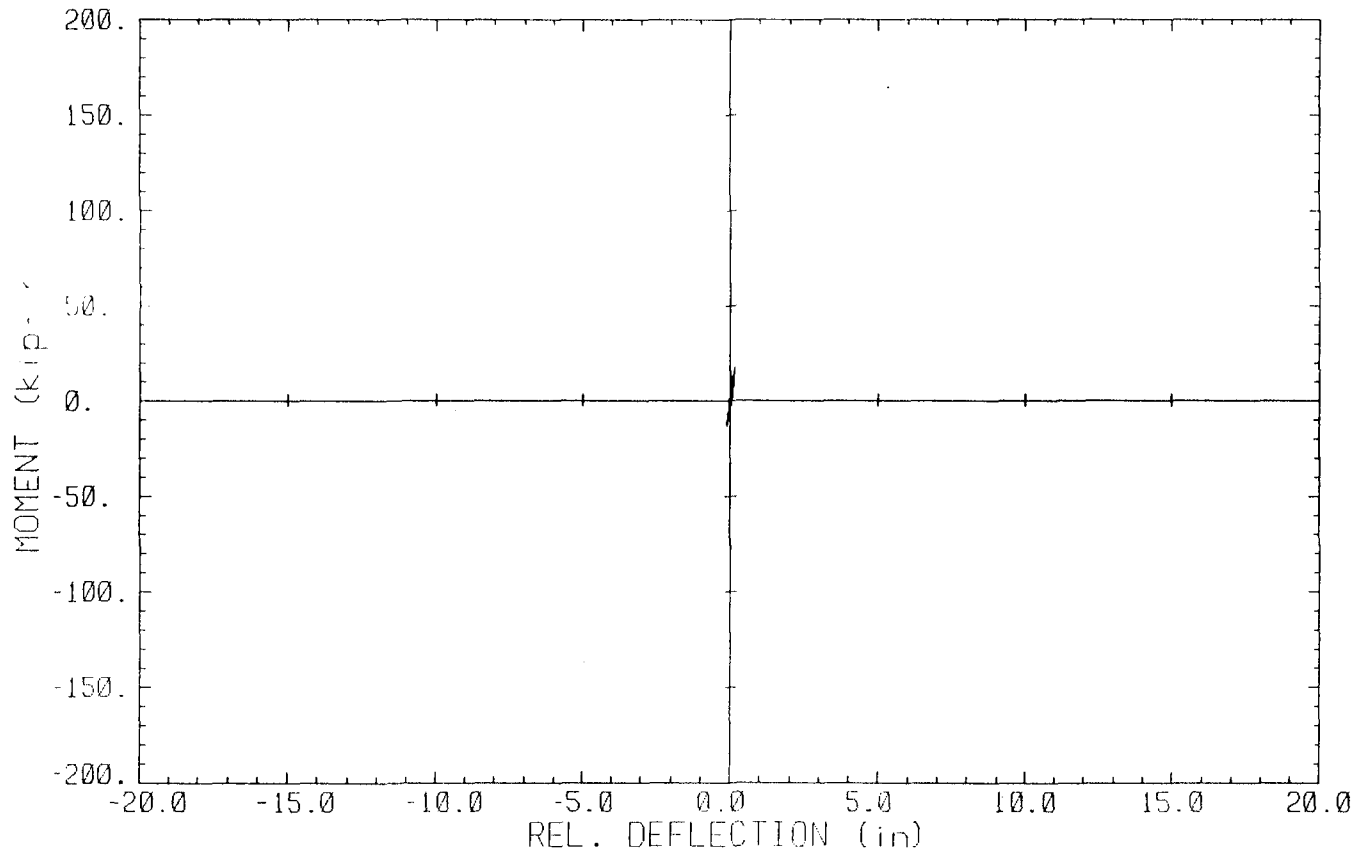

WALL # 6 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 300 lb/ft
SPLICES : NO
FORCE vs DEFLECTION
TOTAL TEST DURATION
IN. FORCE (kips)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

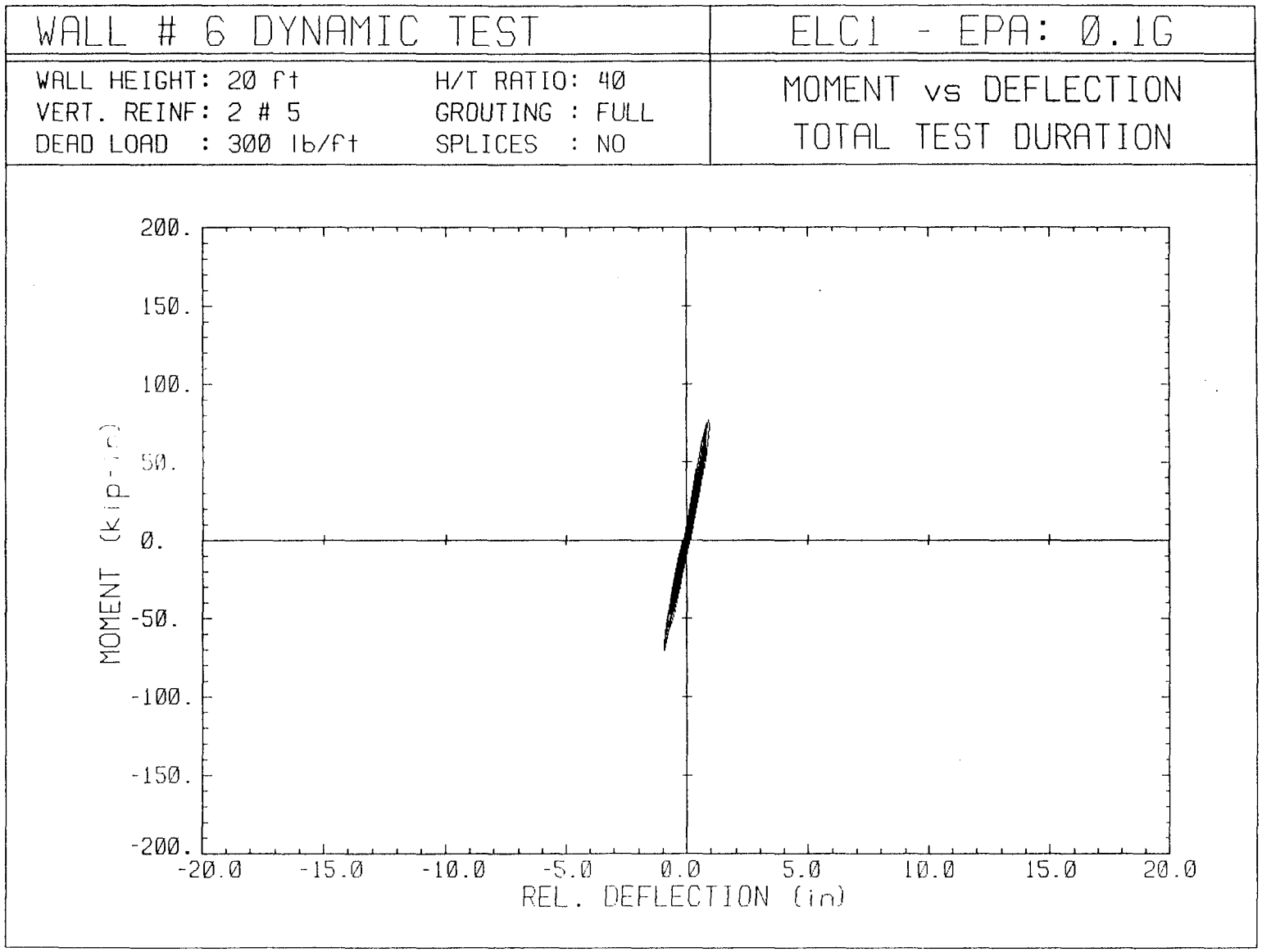
| WALL # 6 DYNAMIC TEST | | MS1 - EPA: Ø.1G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

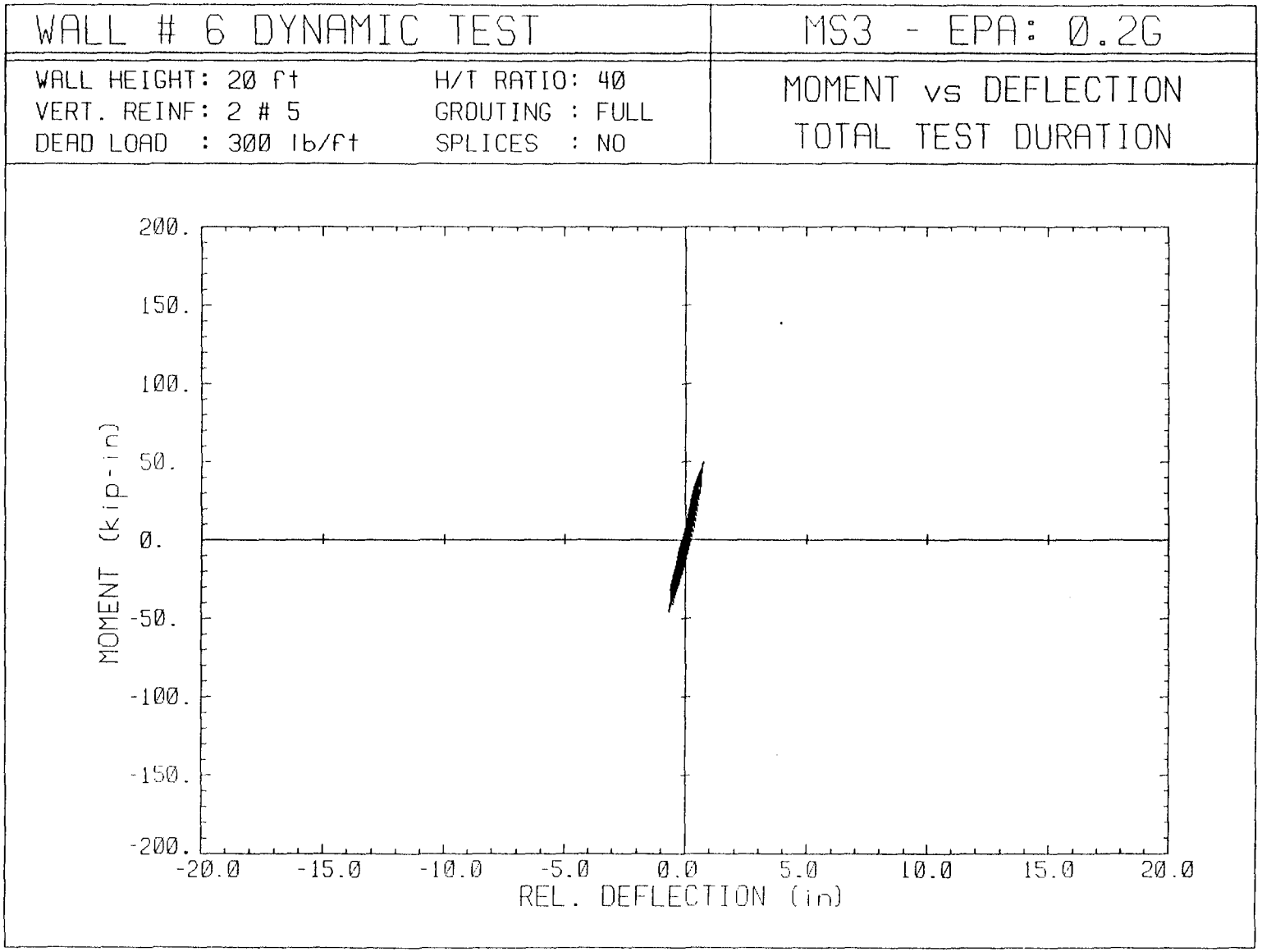


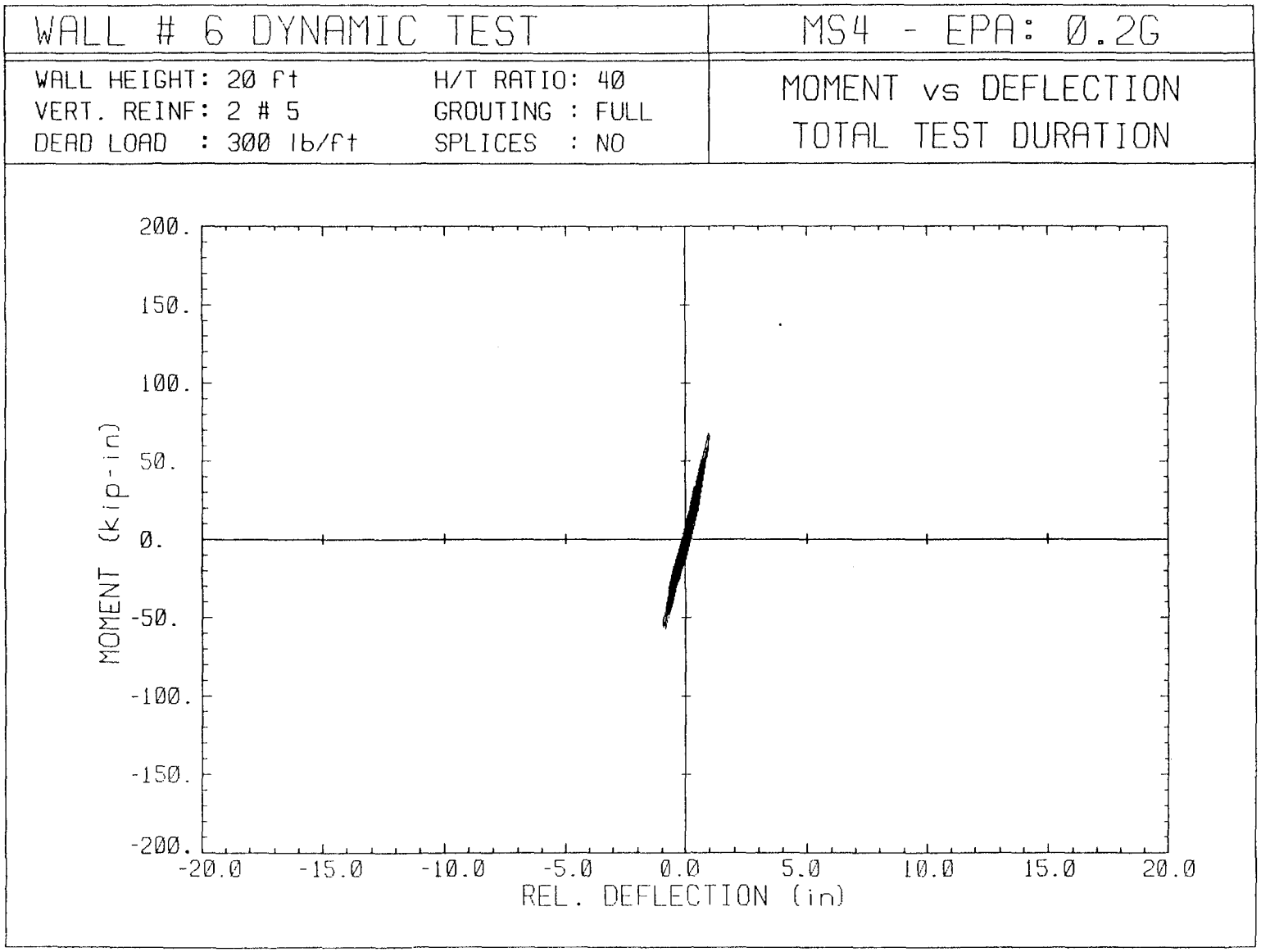

WALL # 6 DYNAMIC TEST
MS2 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (K-in)
REL. DEFLECTION (in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0

| WALL # 6 DYNAMIC TEST | | TAFT1 - EPA: 0.1G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

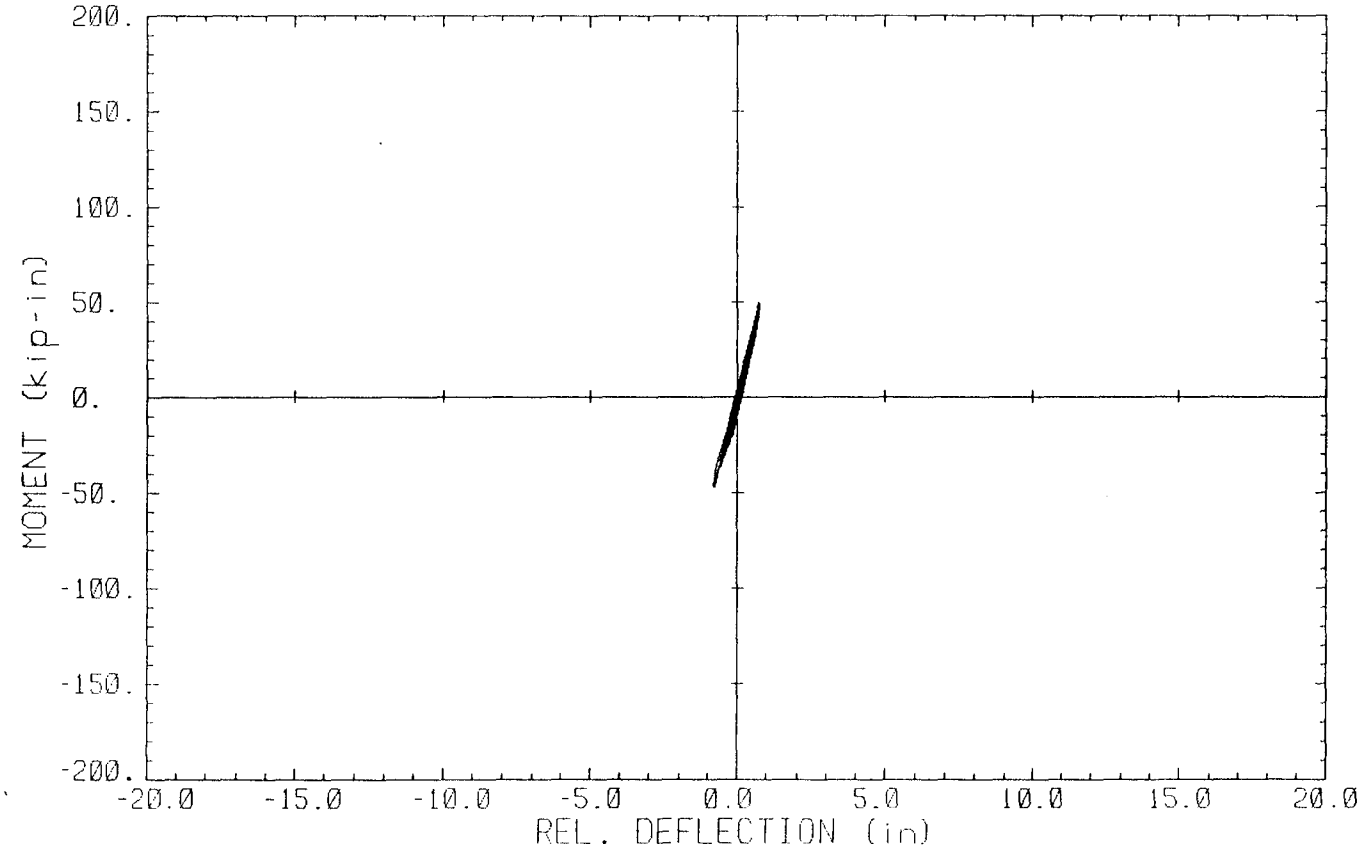


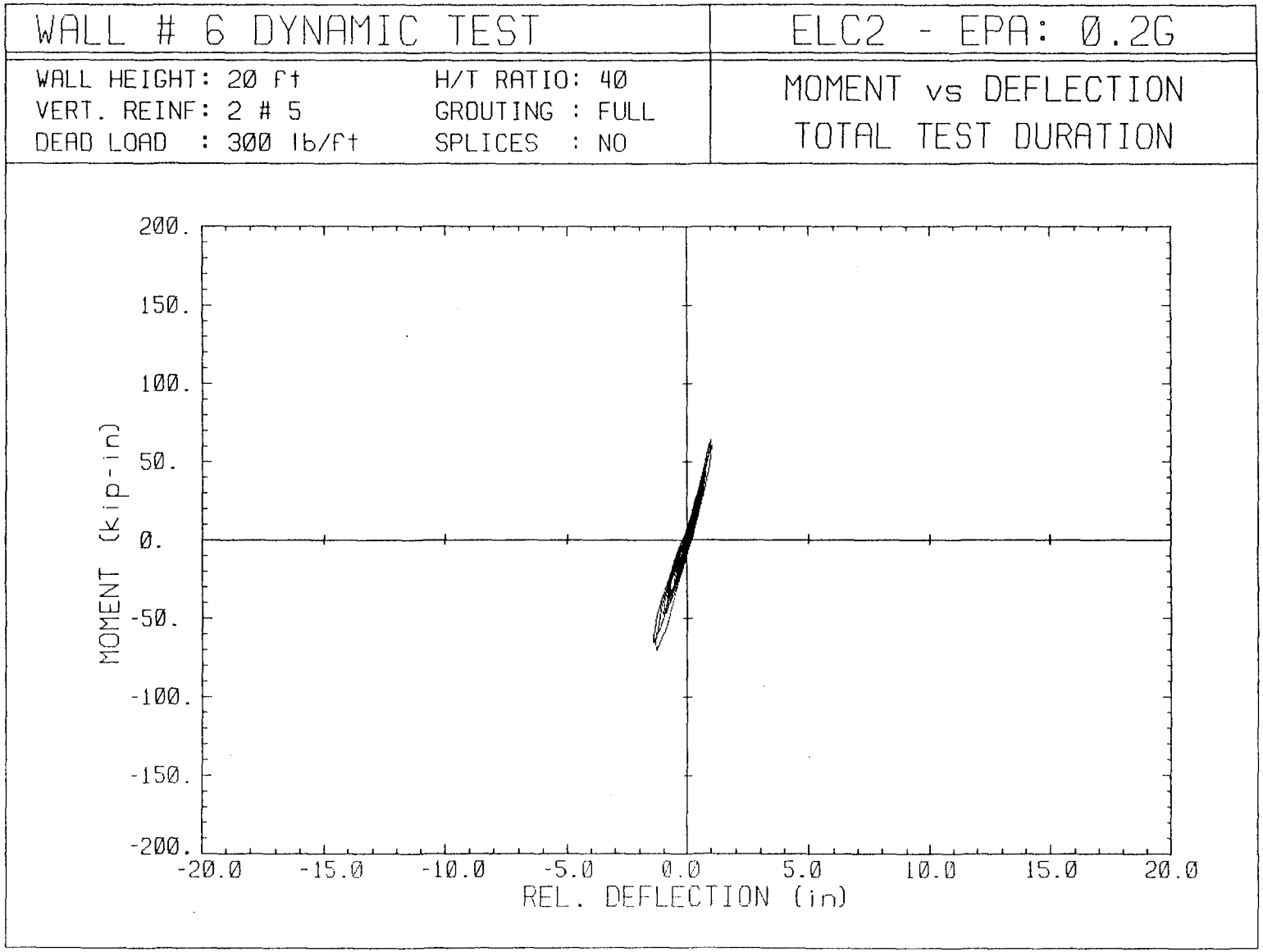

WALL # 6 DYNAMIC TEST
ELC1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

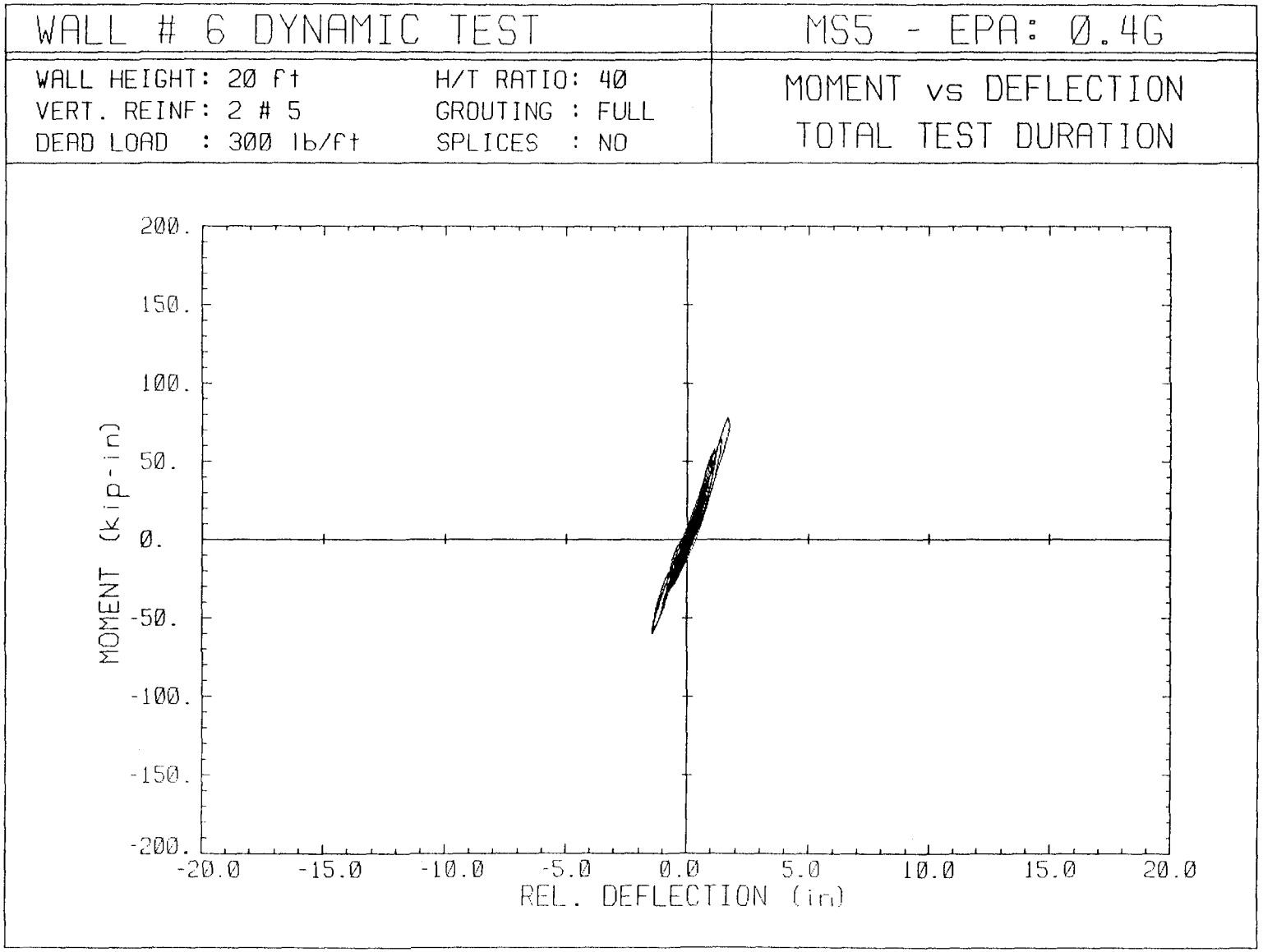

WALL # 6 DYNAMIC TEST
MS3 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

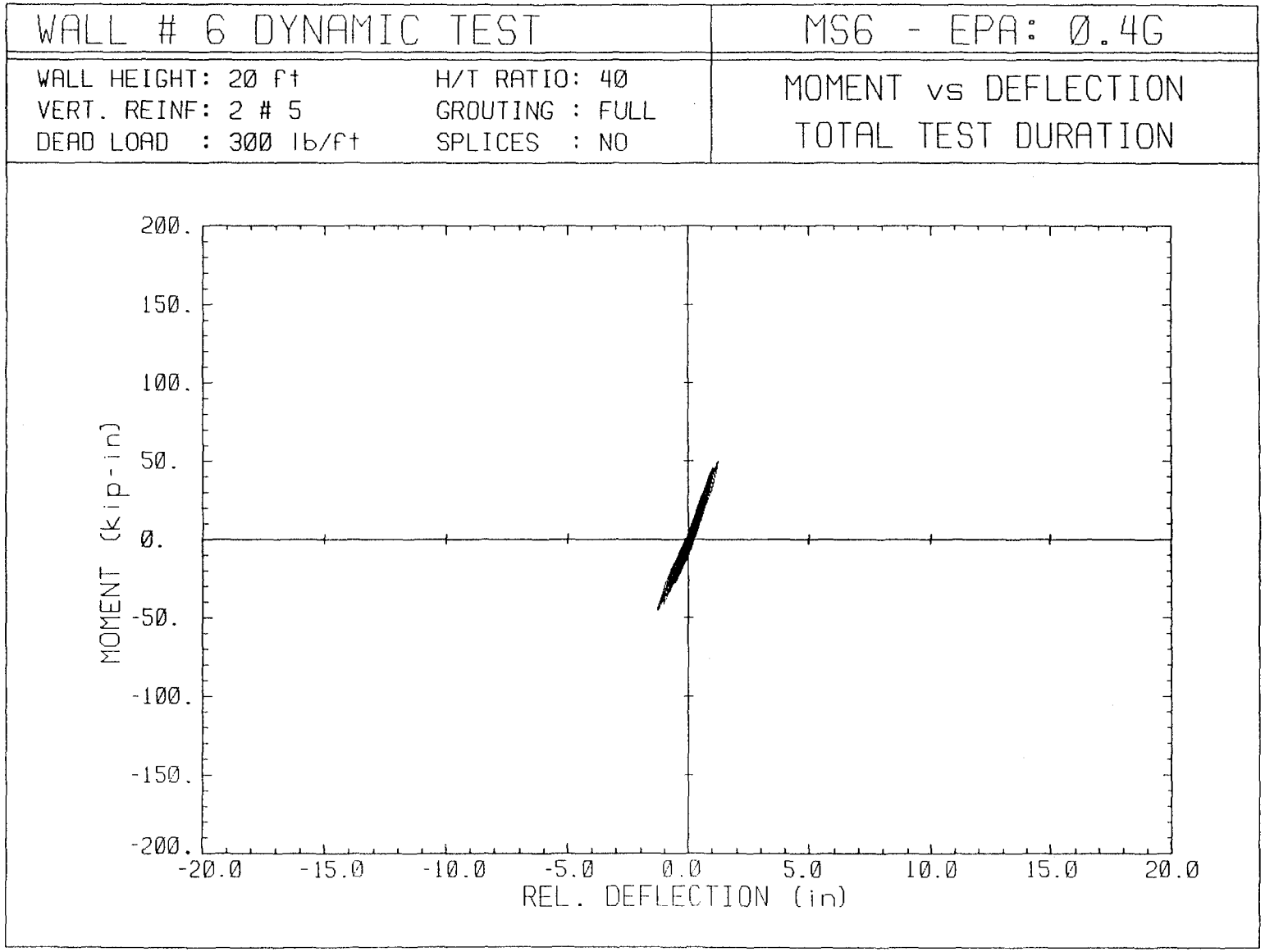

WALL # 6 DYNAMIC TEST
MS4 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

| WALL # 6 DYNAMIC TEST | | TAFT2 - EPA: 0.2G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

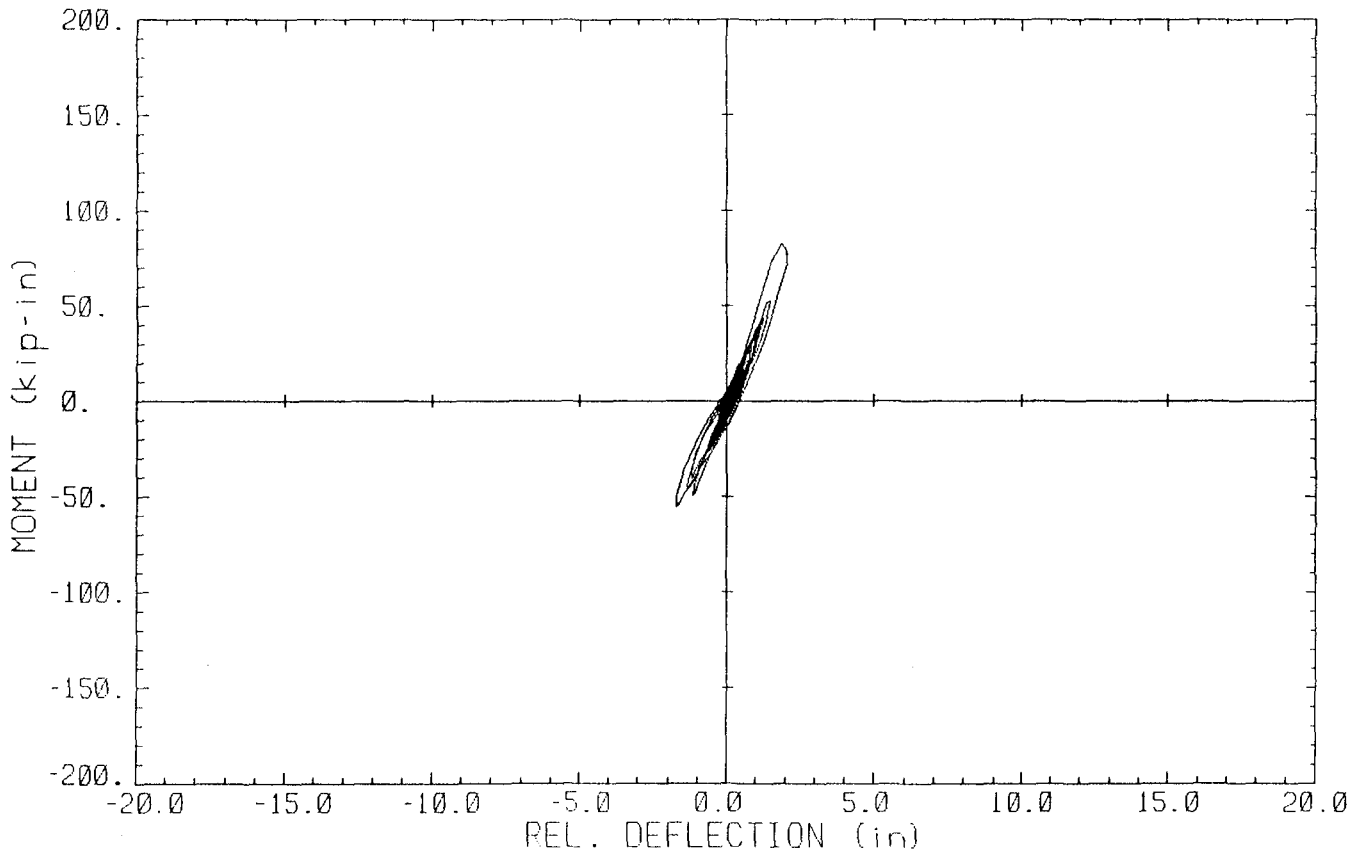


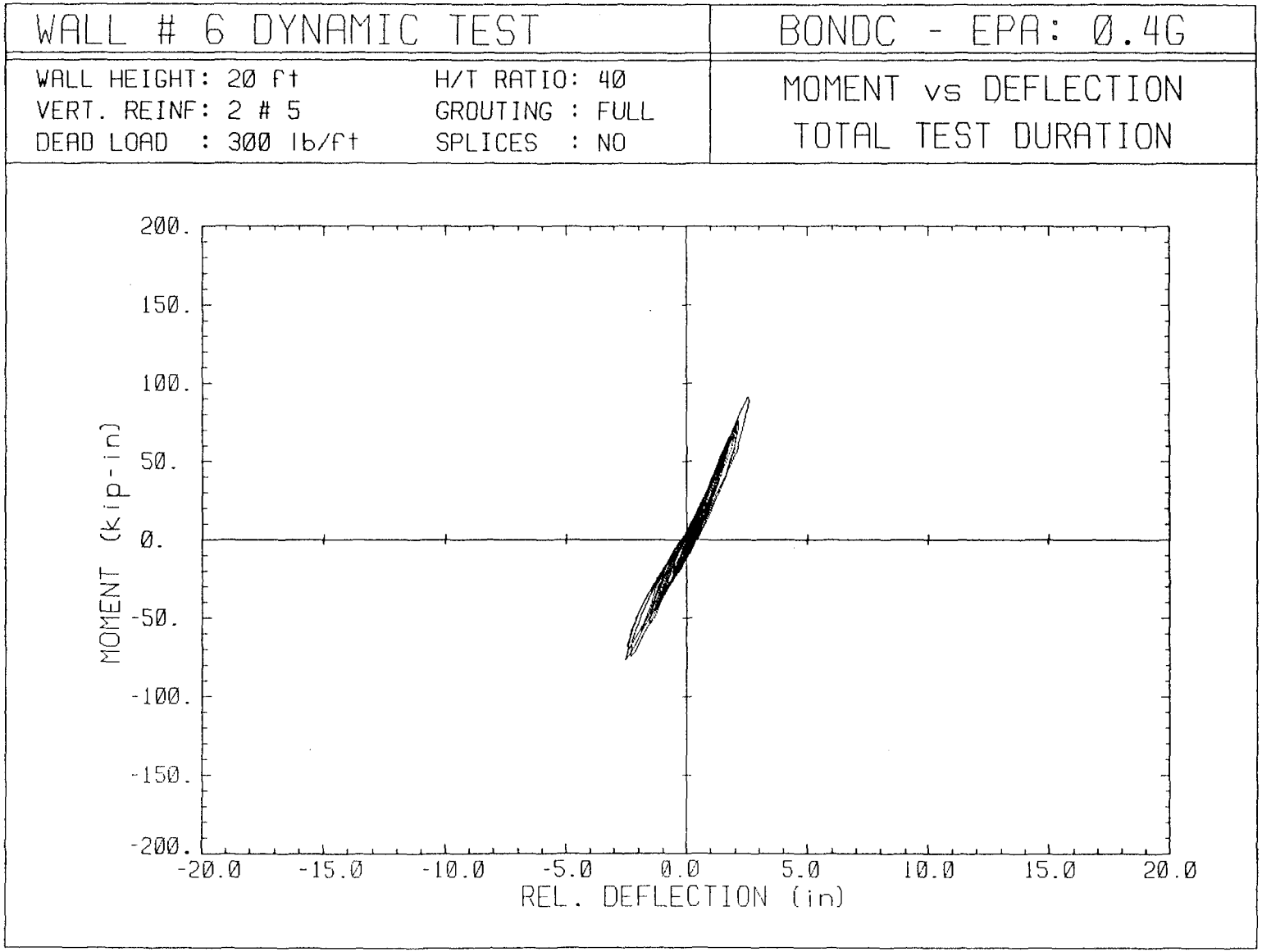

WALL # 6 DYNAMIC TEST
ELC2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

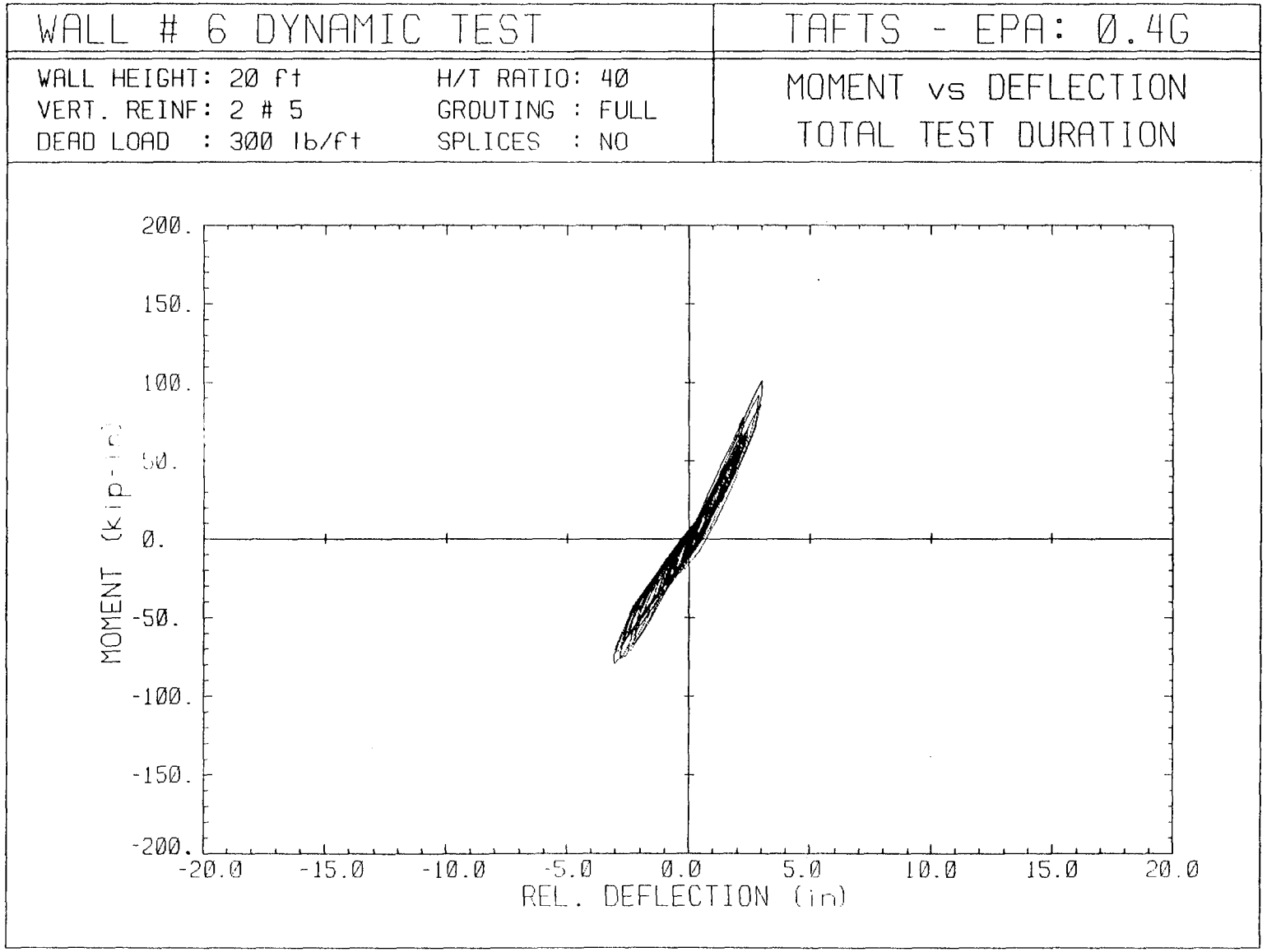

WALL # 6 DYNAMIC TEST
MS5 - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

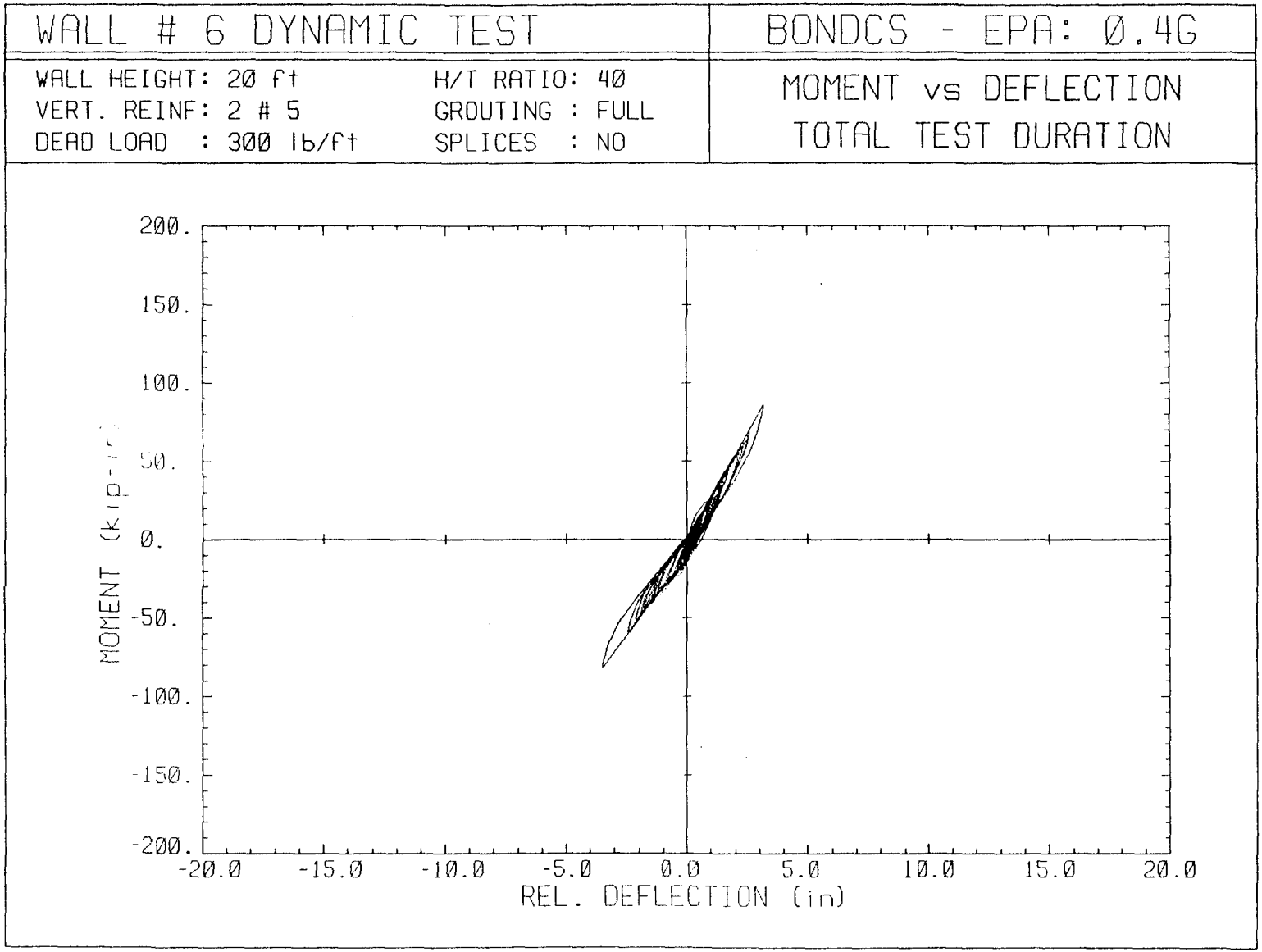

WALL # 6 DYNAMIC TEST
MS6 - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

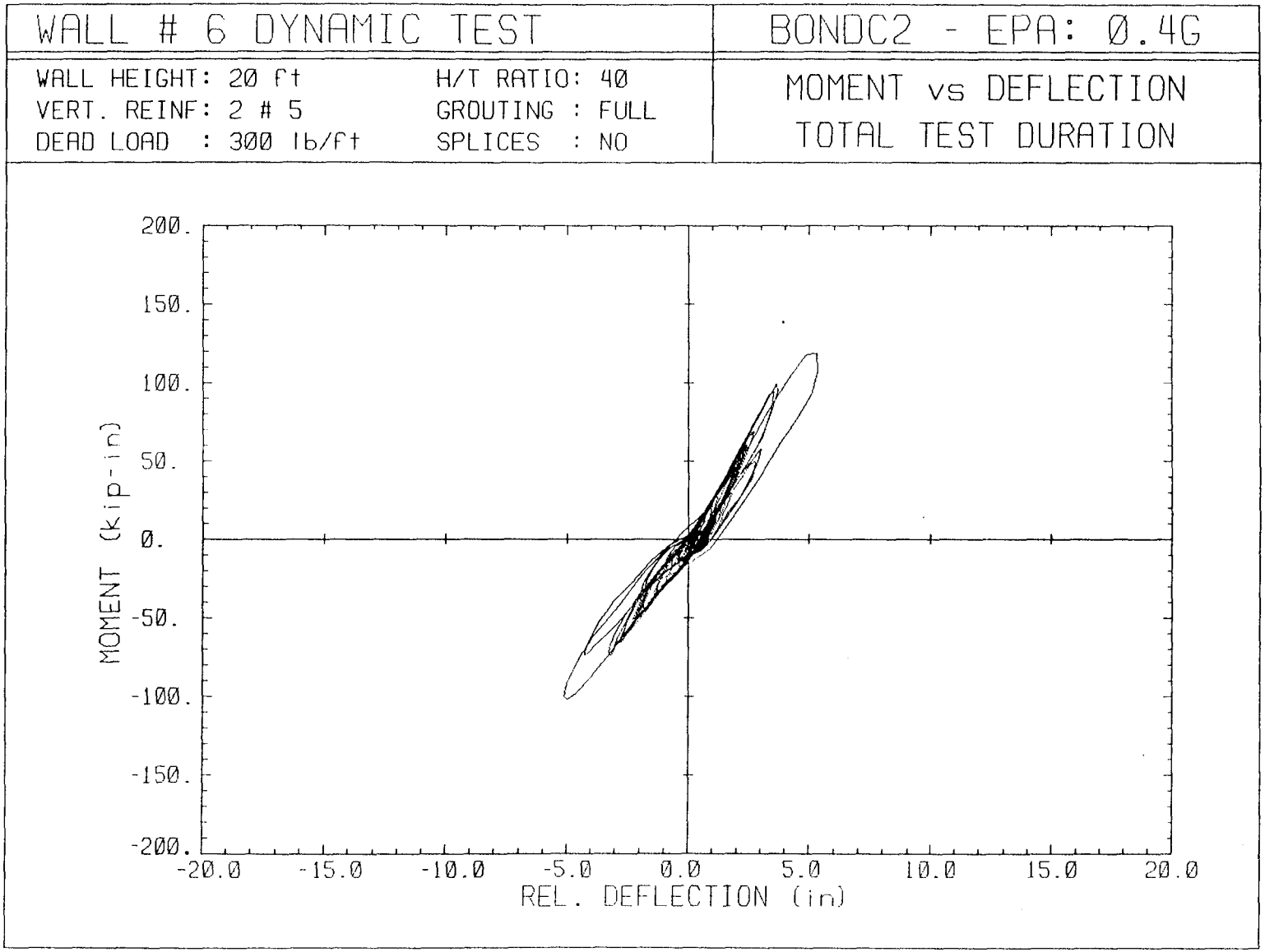
| WALL # 6 DYNAMIC TEST | | ELC - EPA: 0.4G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs DEFLECTION |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

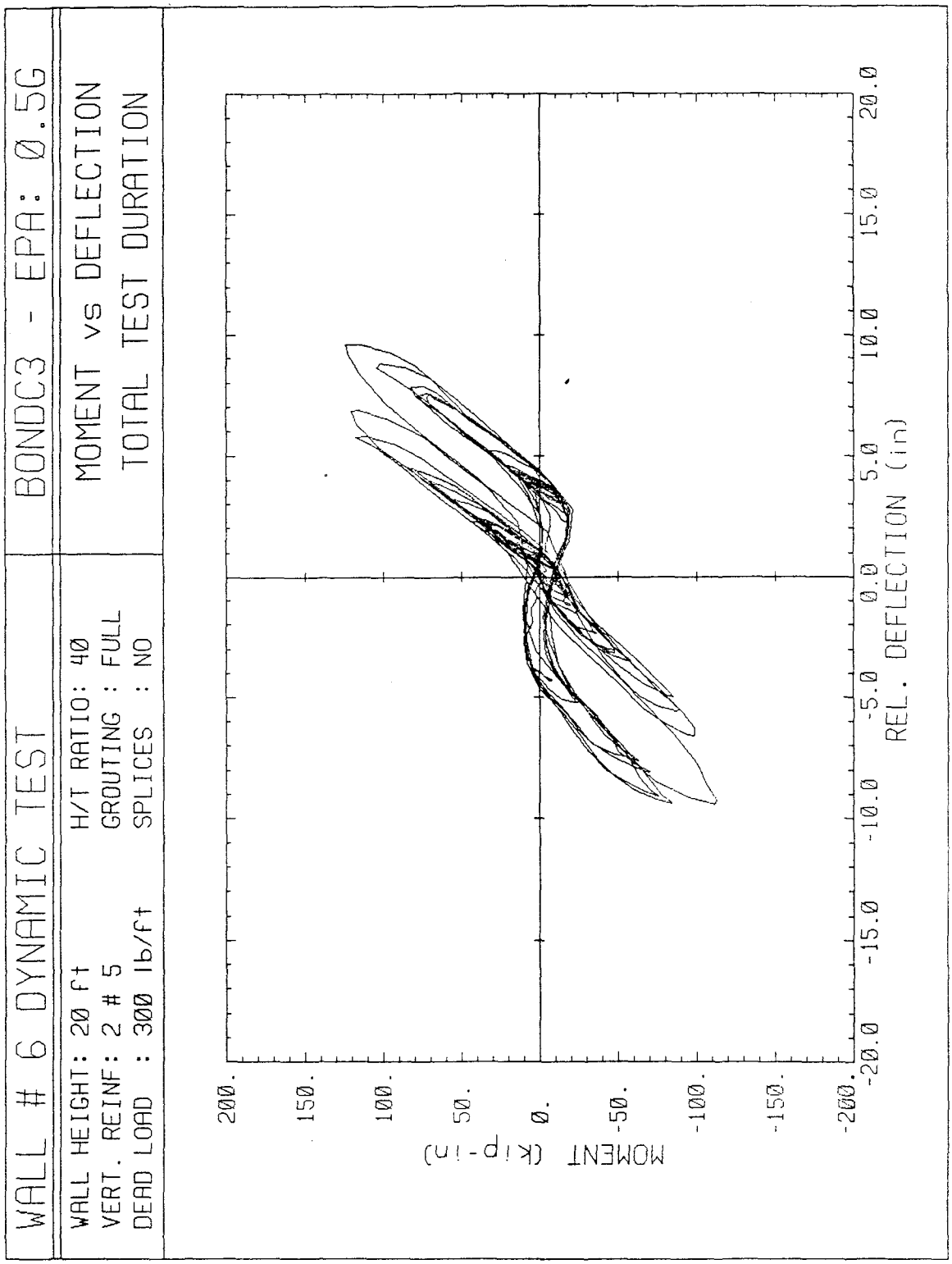


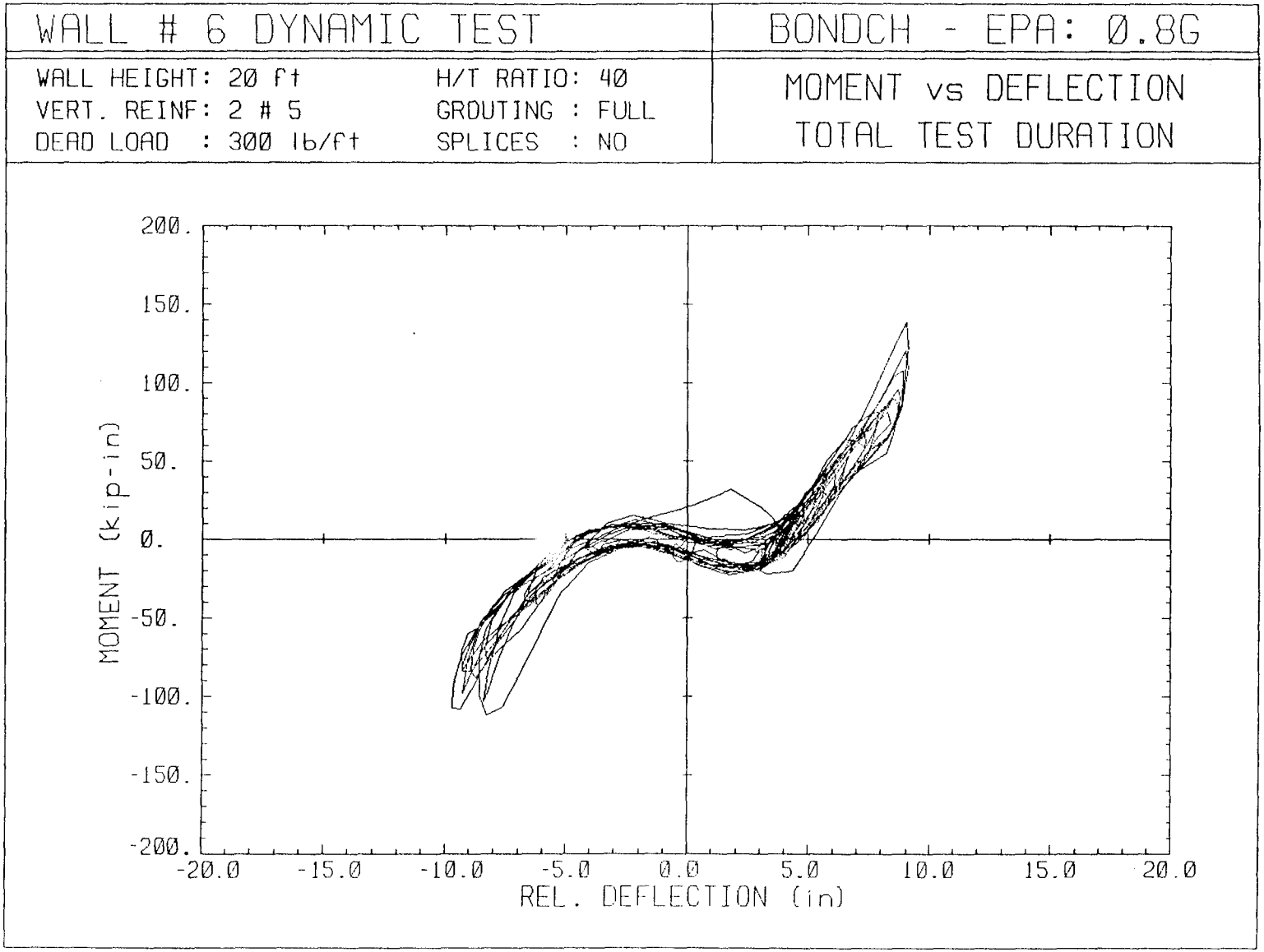

WALL # 6 DYNAMIC TEST
BONDC - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

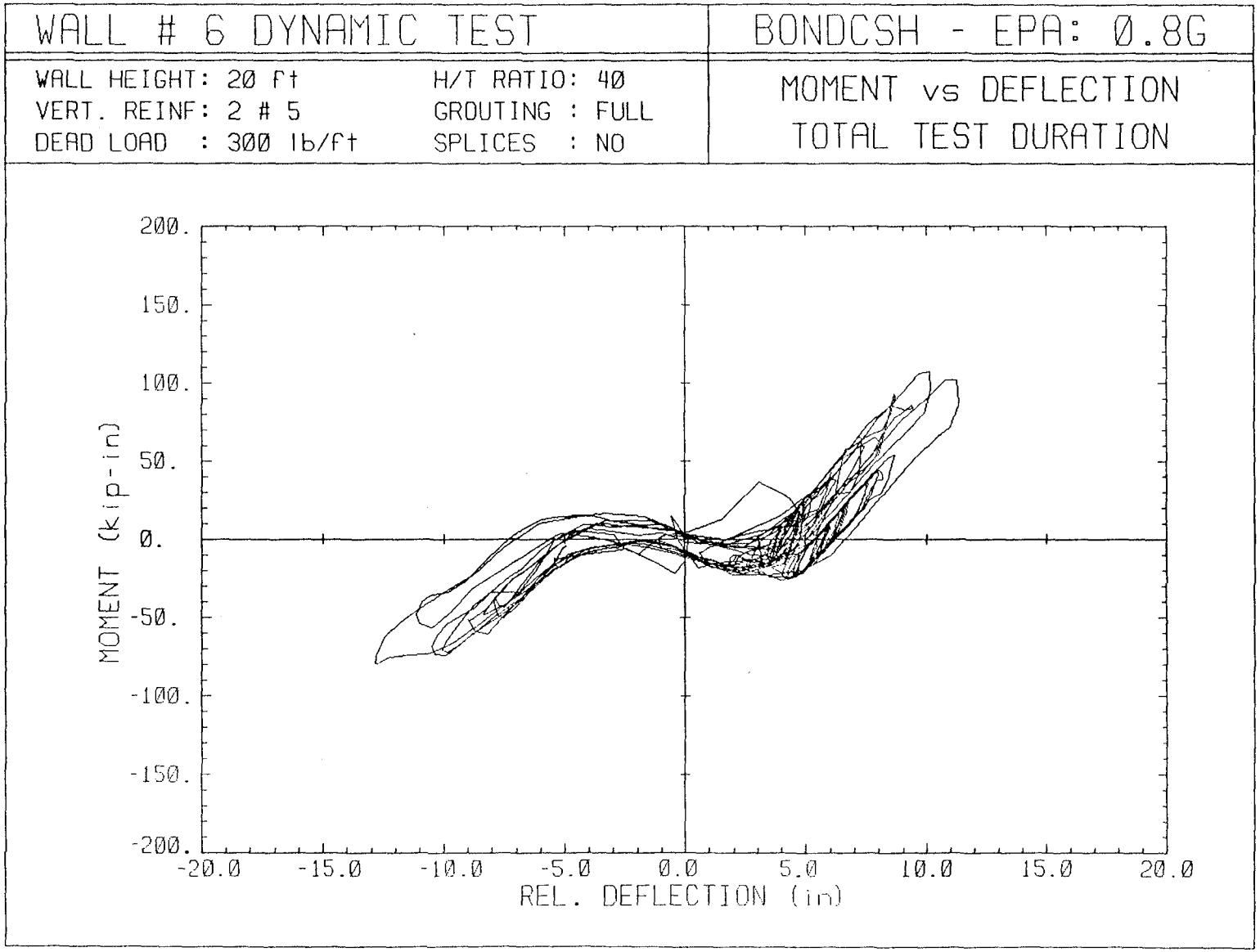

WALL # 6 DYNAMIC TEST
TAFTS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

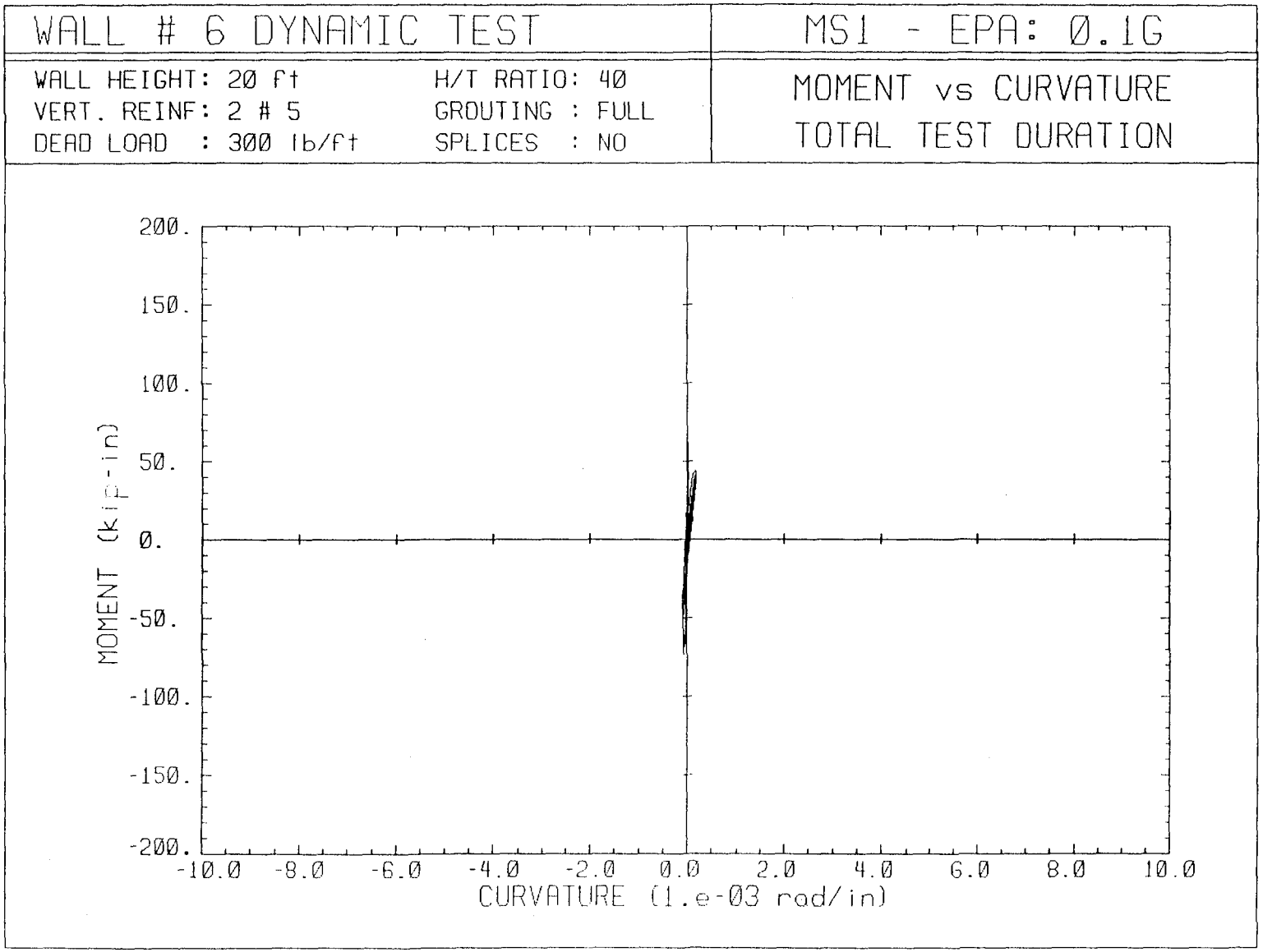

WALL # 6 DYNAMIC TEST
BONDCS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-ft)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

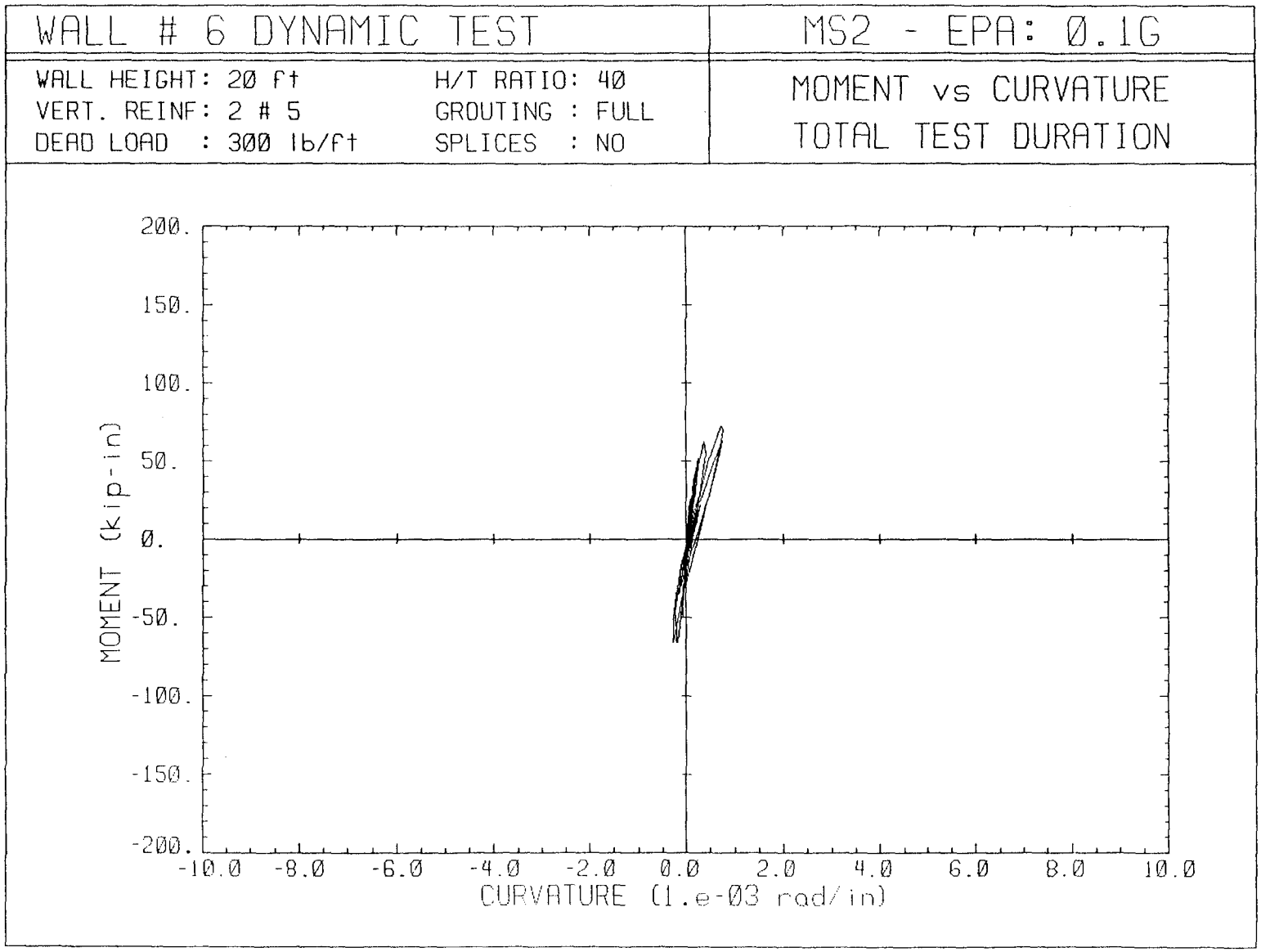

WALL # 6 DYNAMIC TEST
BONDC2 - EPA: 0.4G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 300 lb/ft
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)


WALL # 6 DYNAMIC TEST
BONDC3 - EPA: 0.5G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (kip-in)
REL. DEFLECTION (in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0

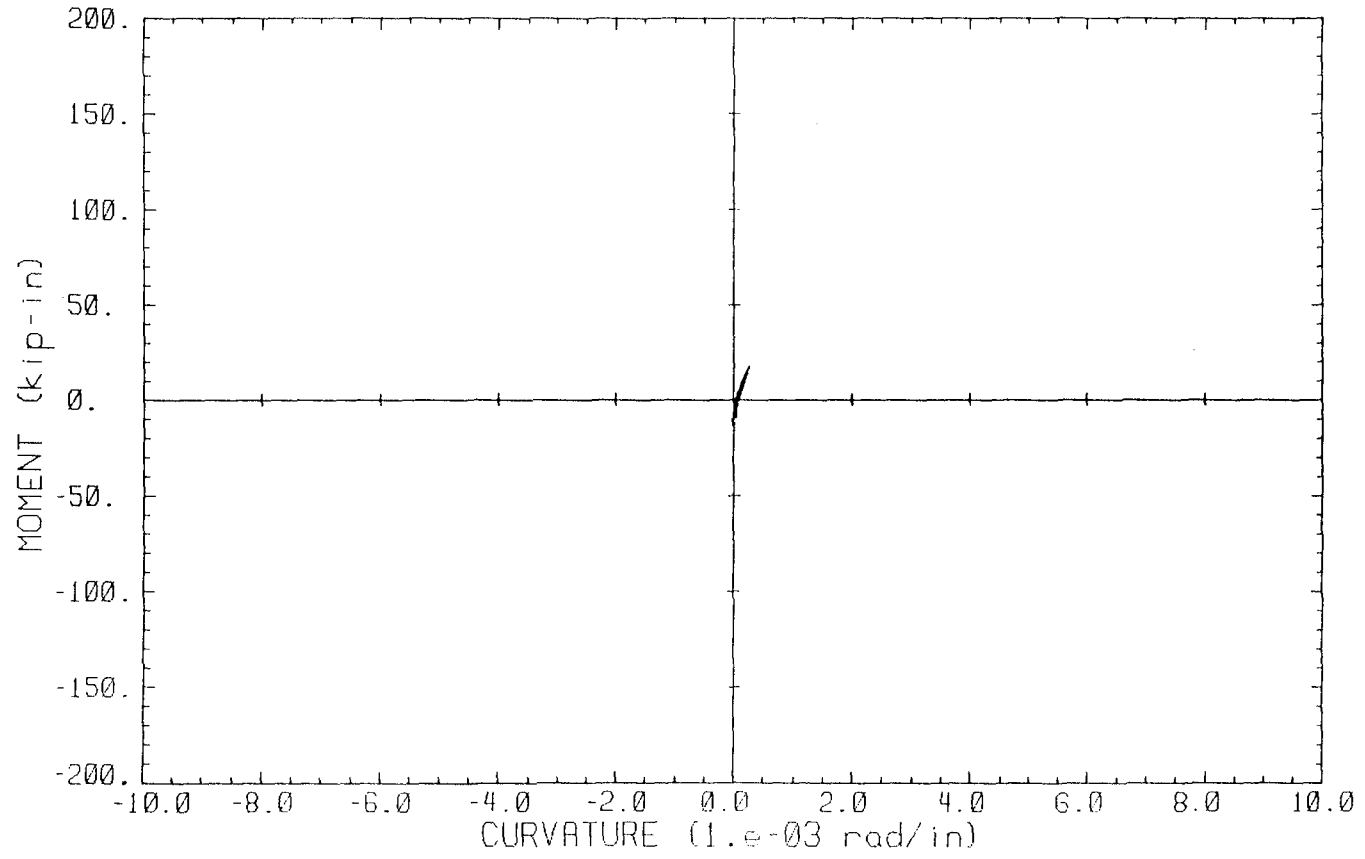

WALL # 6 DYNAMIC TEST
BONDCH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)

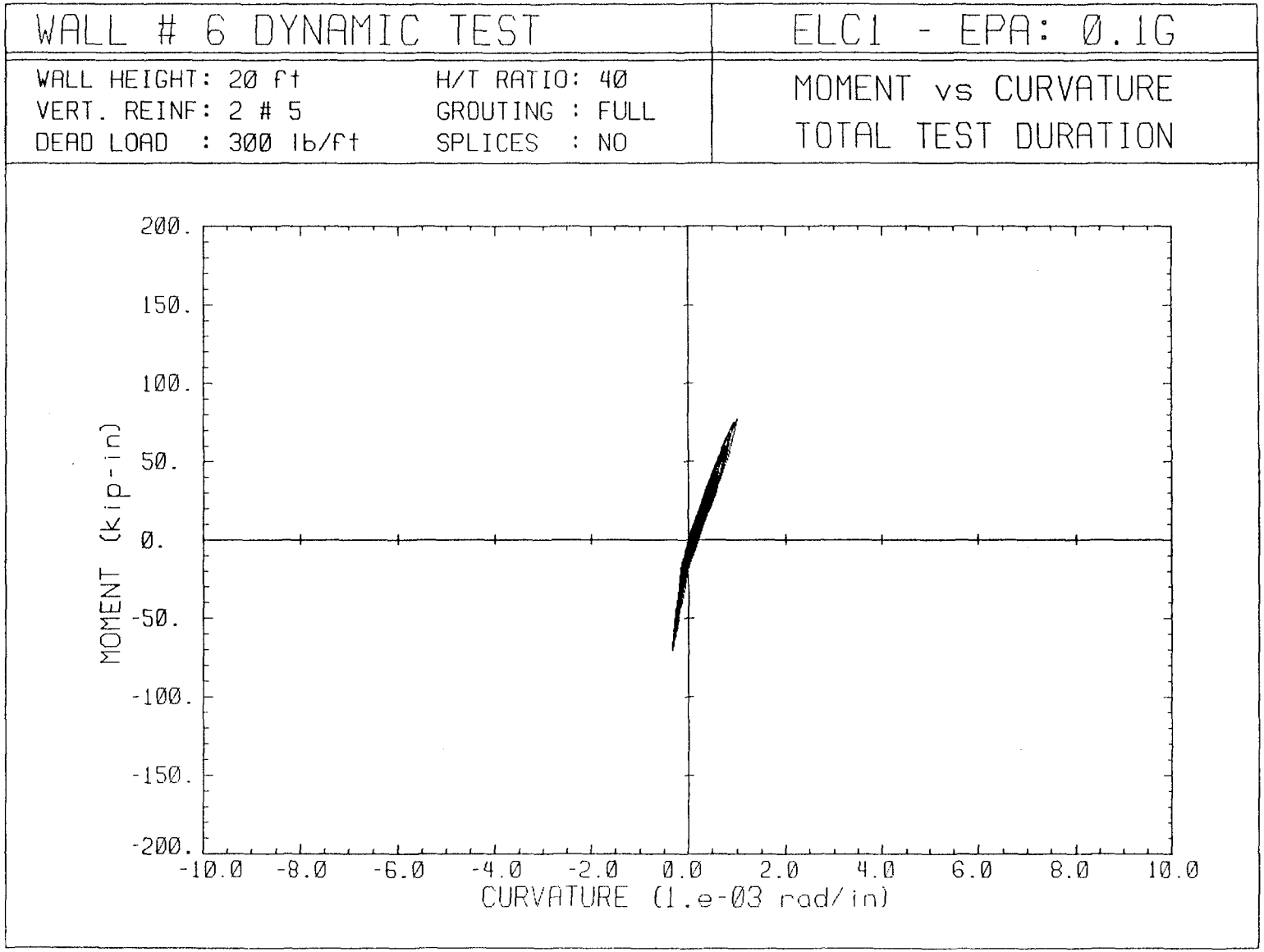

WALL # 6 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs DEFLECTION
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
REL. DEFLECTION (in)


WALL # 6 DYNAMIC TEST
MS1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

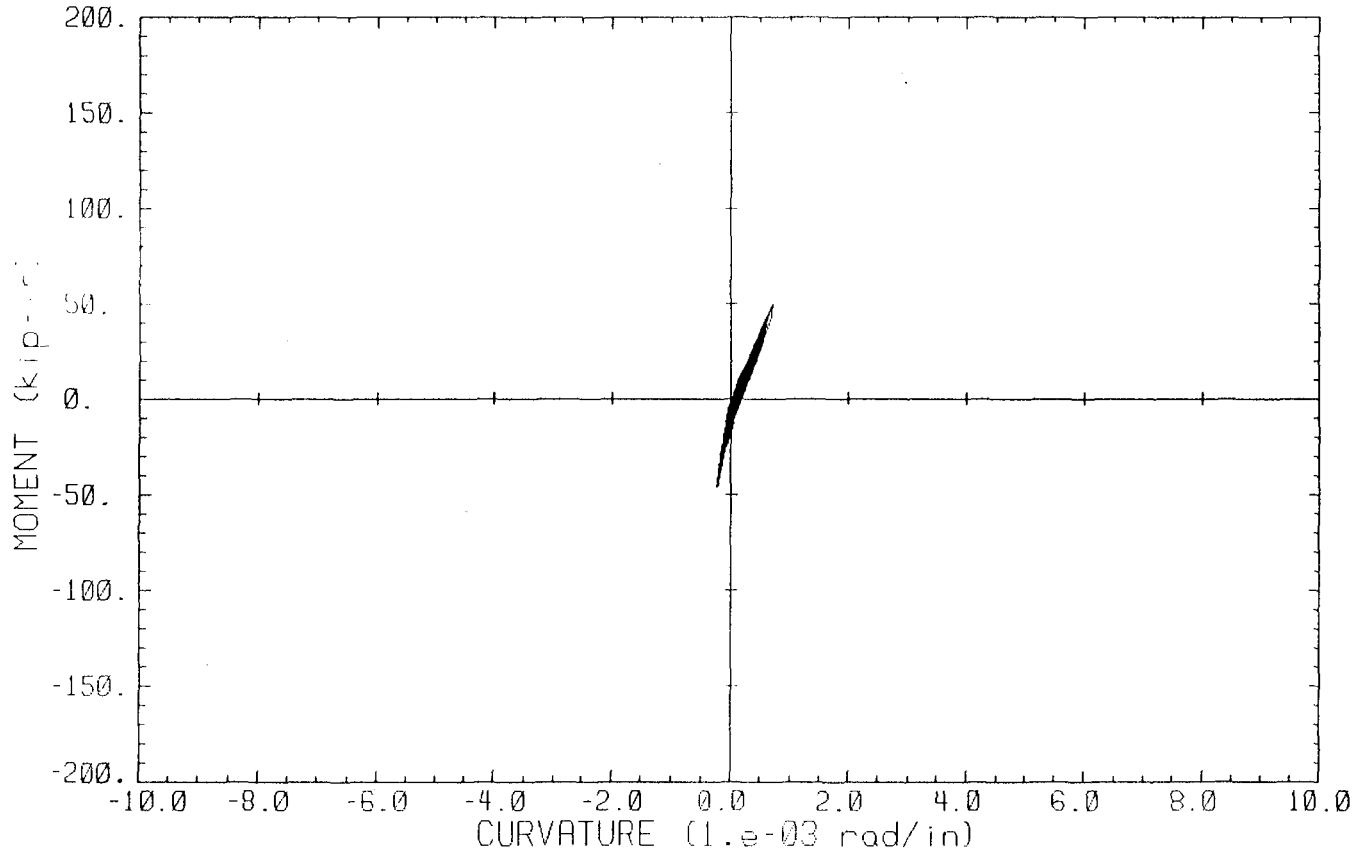

WALL # 6 DYNAMIC TEST
MS2 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

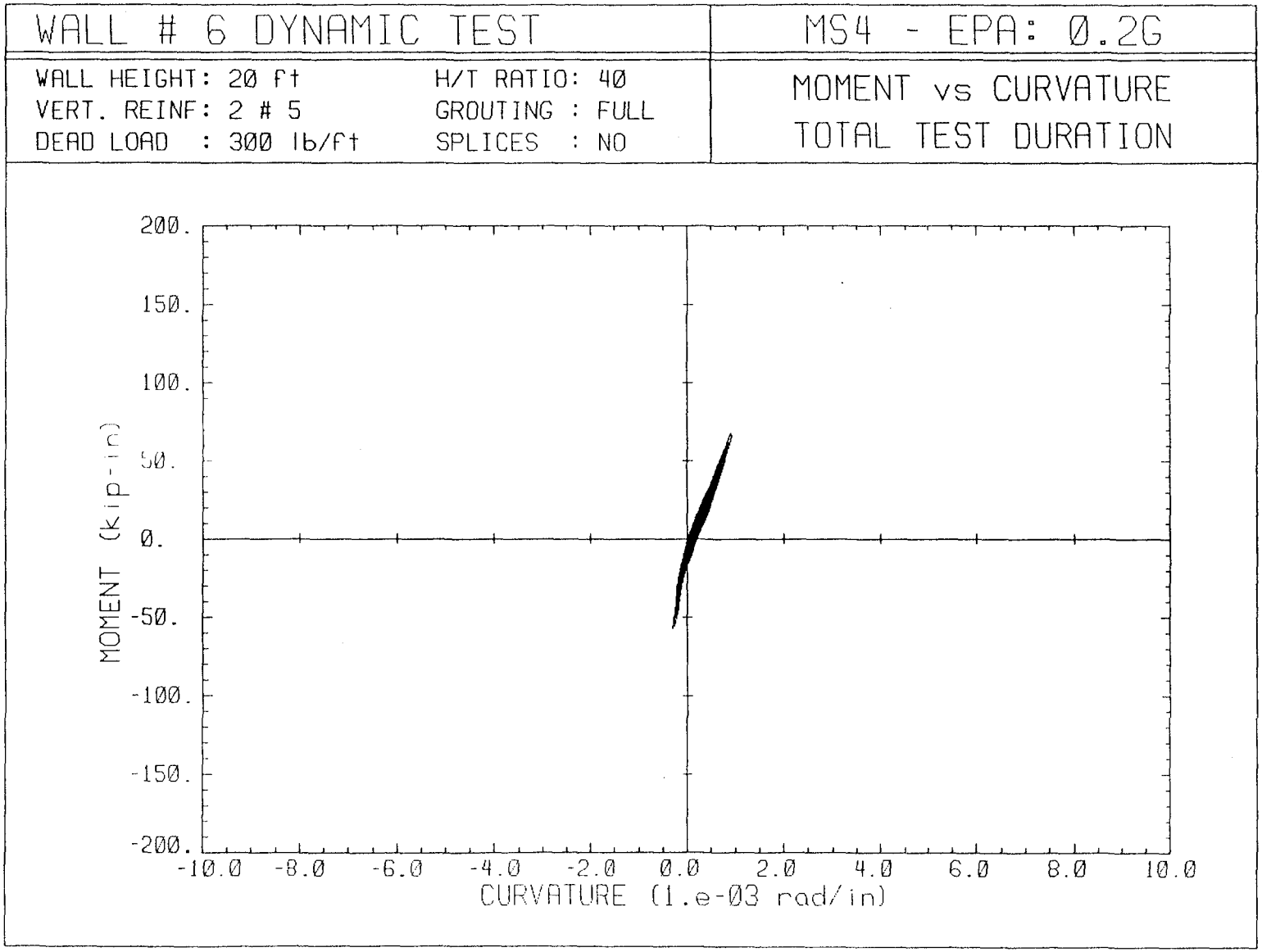
| WALL # 6 DYNAMIC TEST | | TAFT1 - EPA: 0.1G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs CURVATURE |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

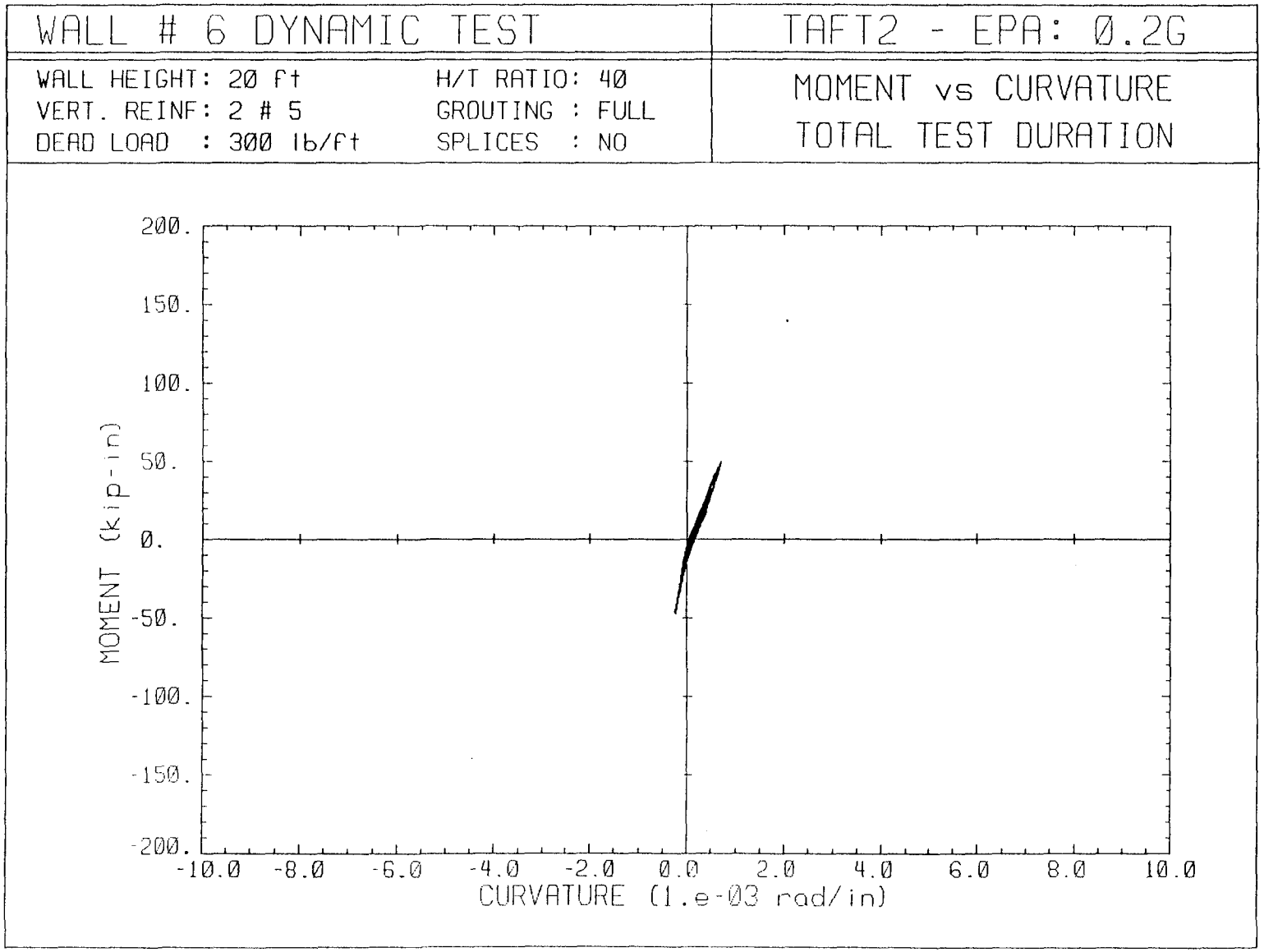


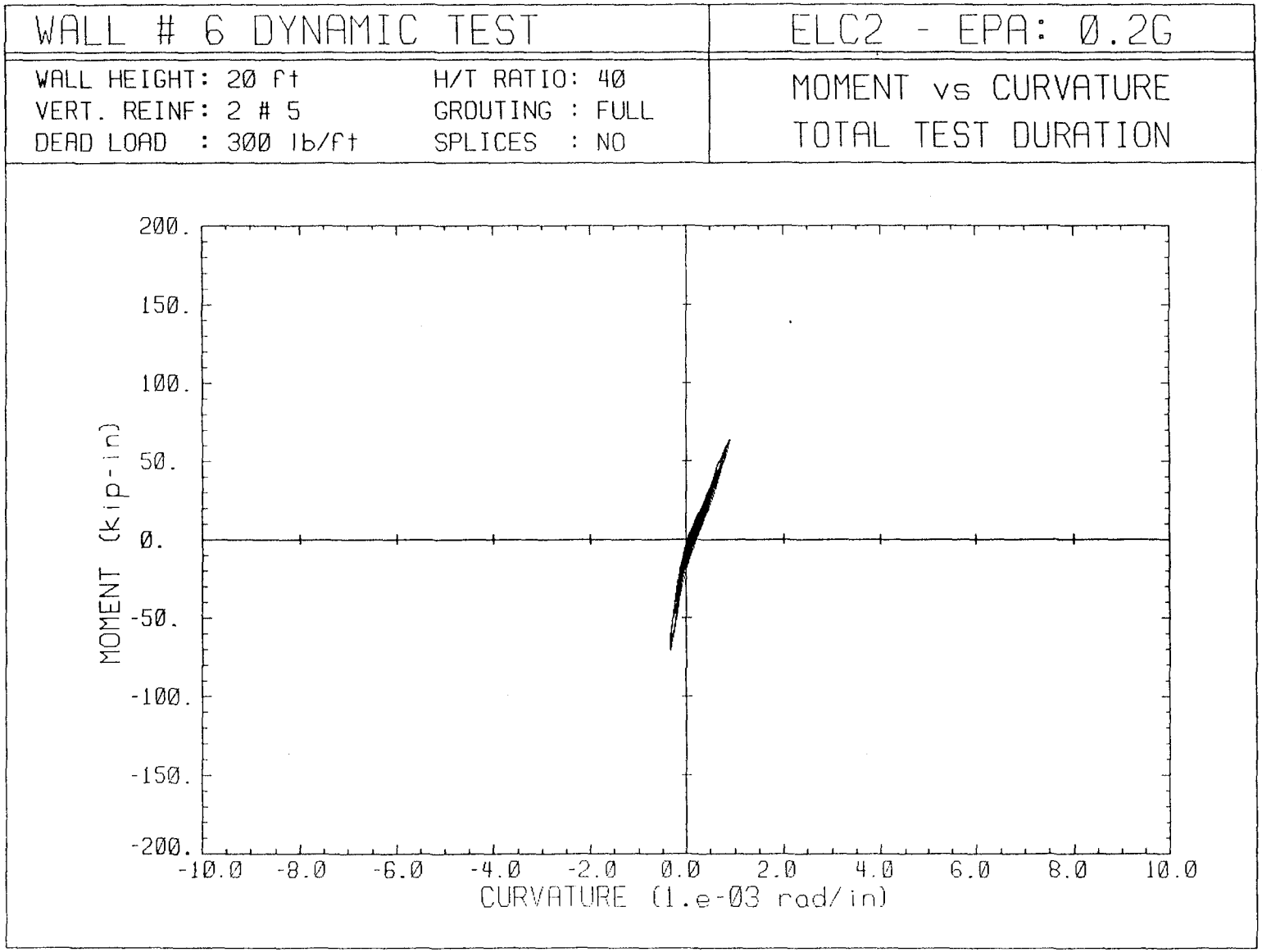

WALL # 6 DYNAMIC TEST
ELC1 - EPA: 0.1G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

| WALL # 6 DYNAMIC TEST | | MS3 - EPA: 0.2G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs CURVATURE |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

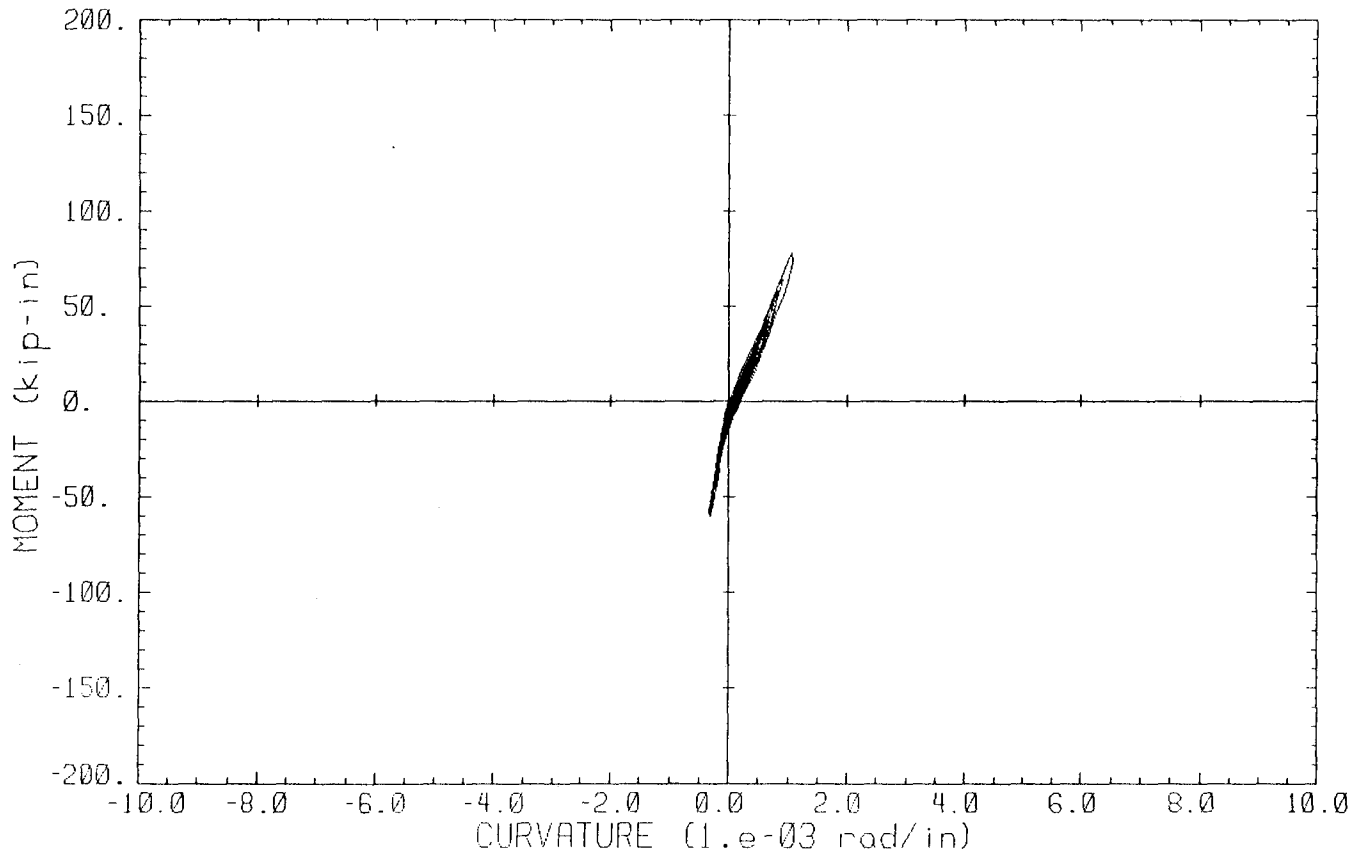


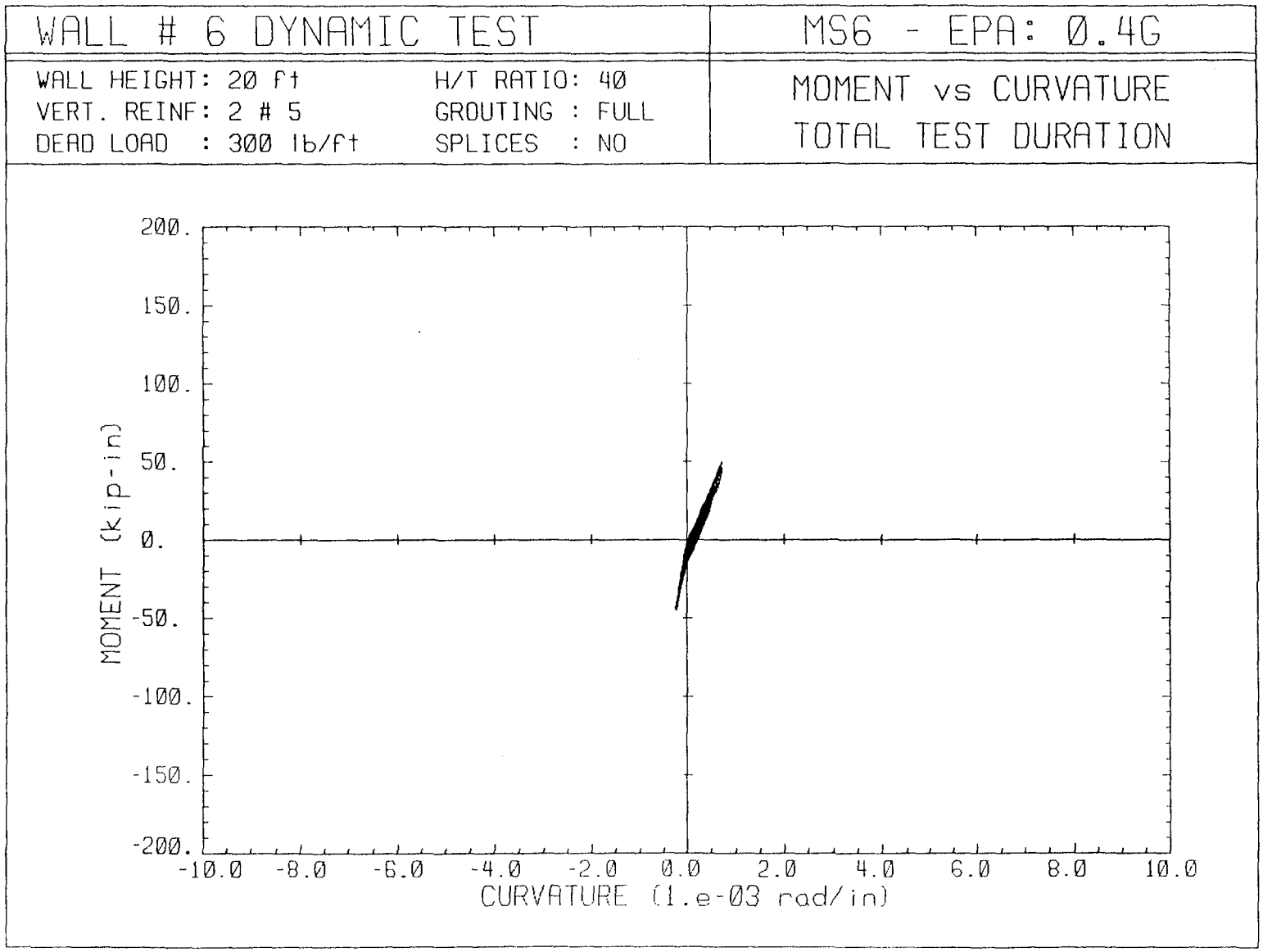

WALL # 6 DYNAMIC TEST
MS4 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0 -8.0 -6.0 -4.0 -2.0 0.0 2.0 4.0 6.0 8.0 10.0
CURVATURE (1.e-03 rad/in)

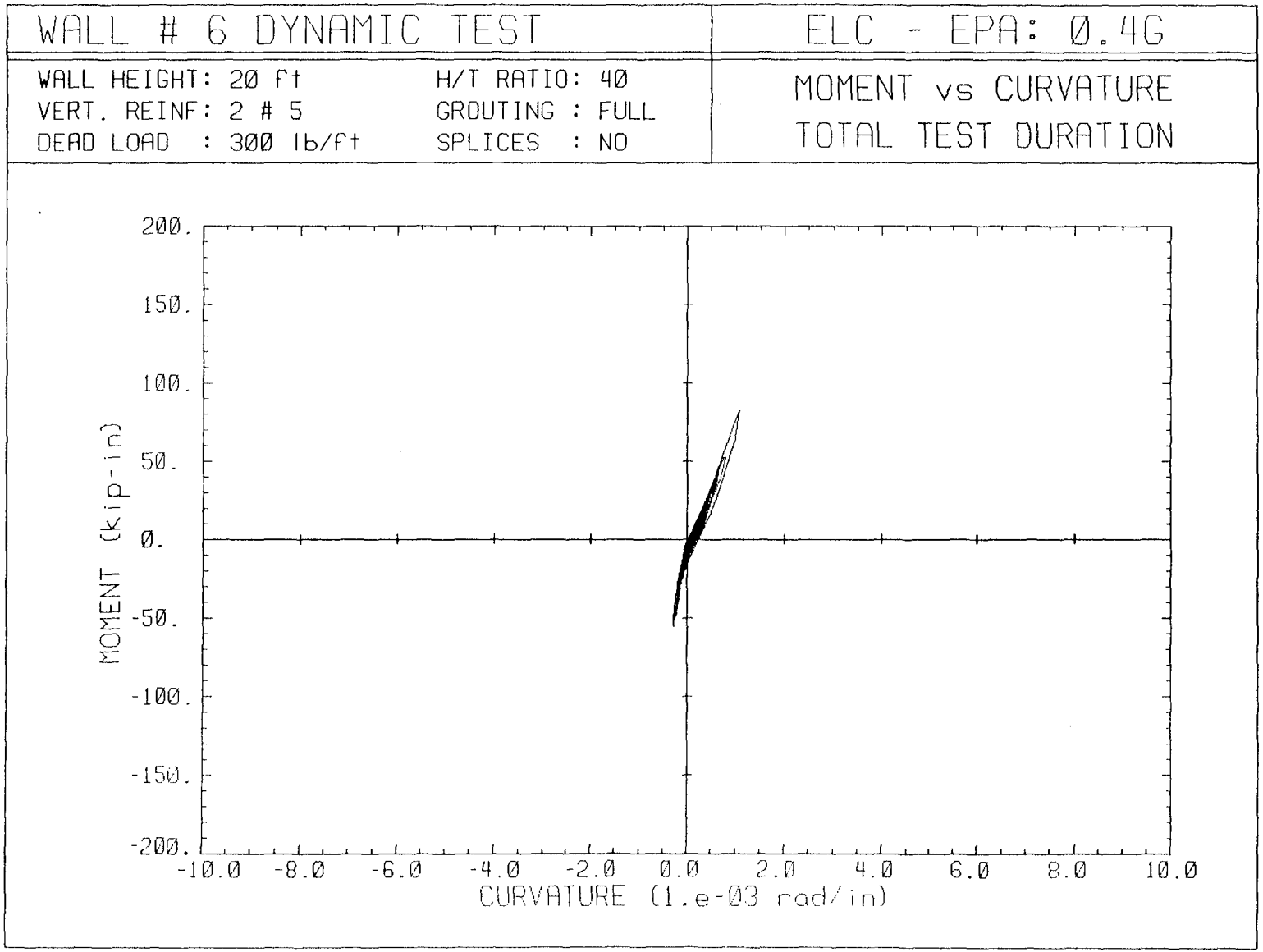

WALL # 6 DYNAMIC TEST
TAFT2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

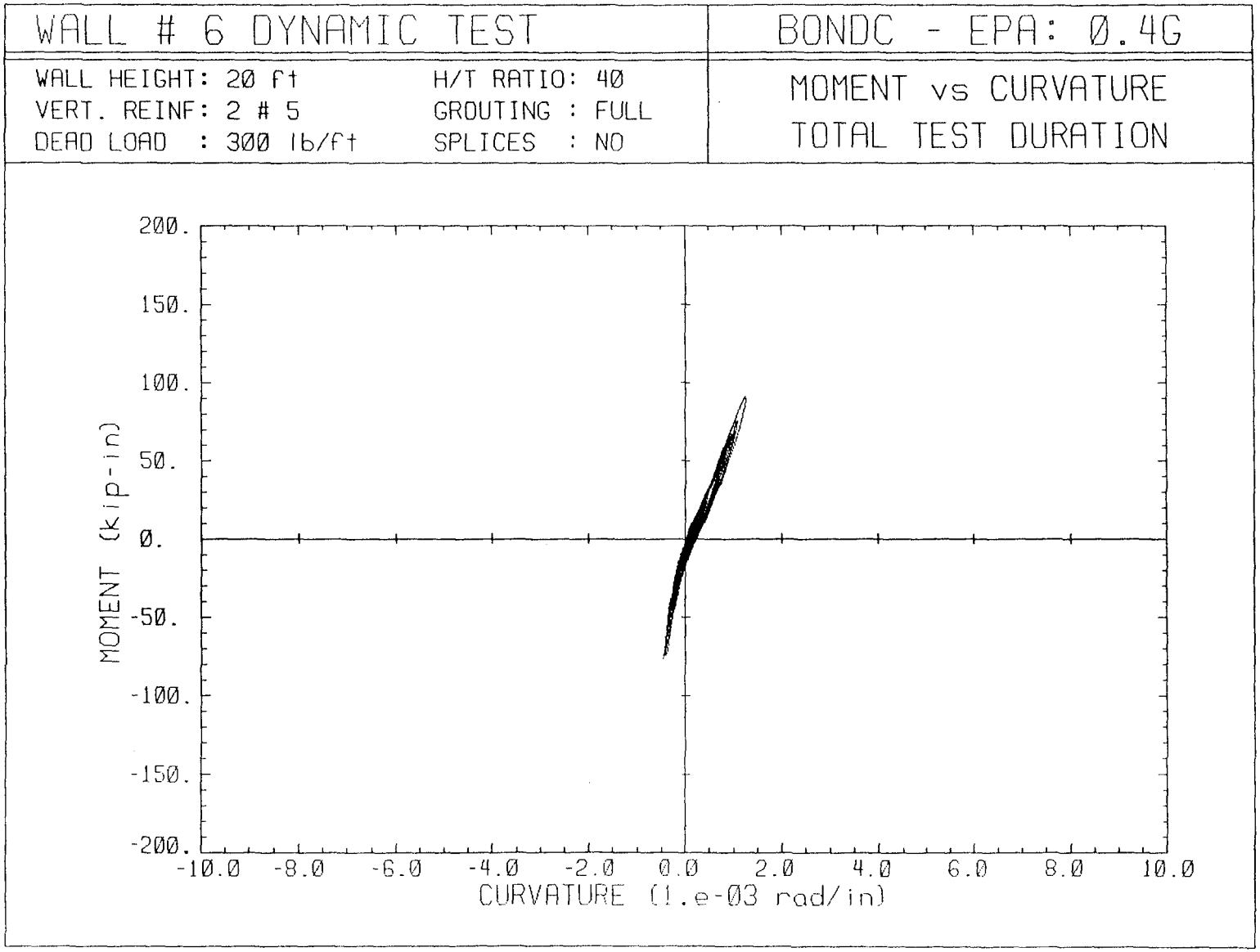

WALL # 6 DYNAMIC TEST
ELC2 - EPA: 0.2G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

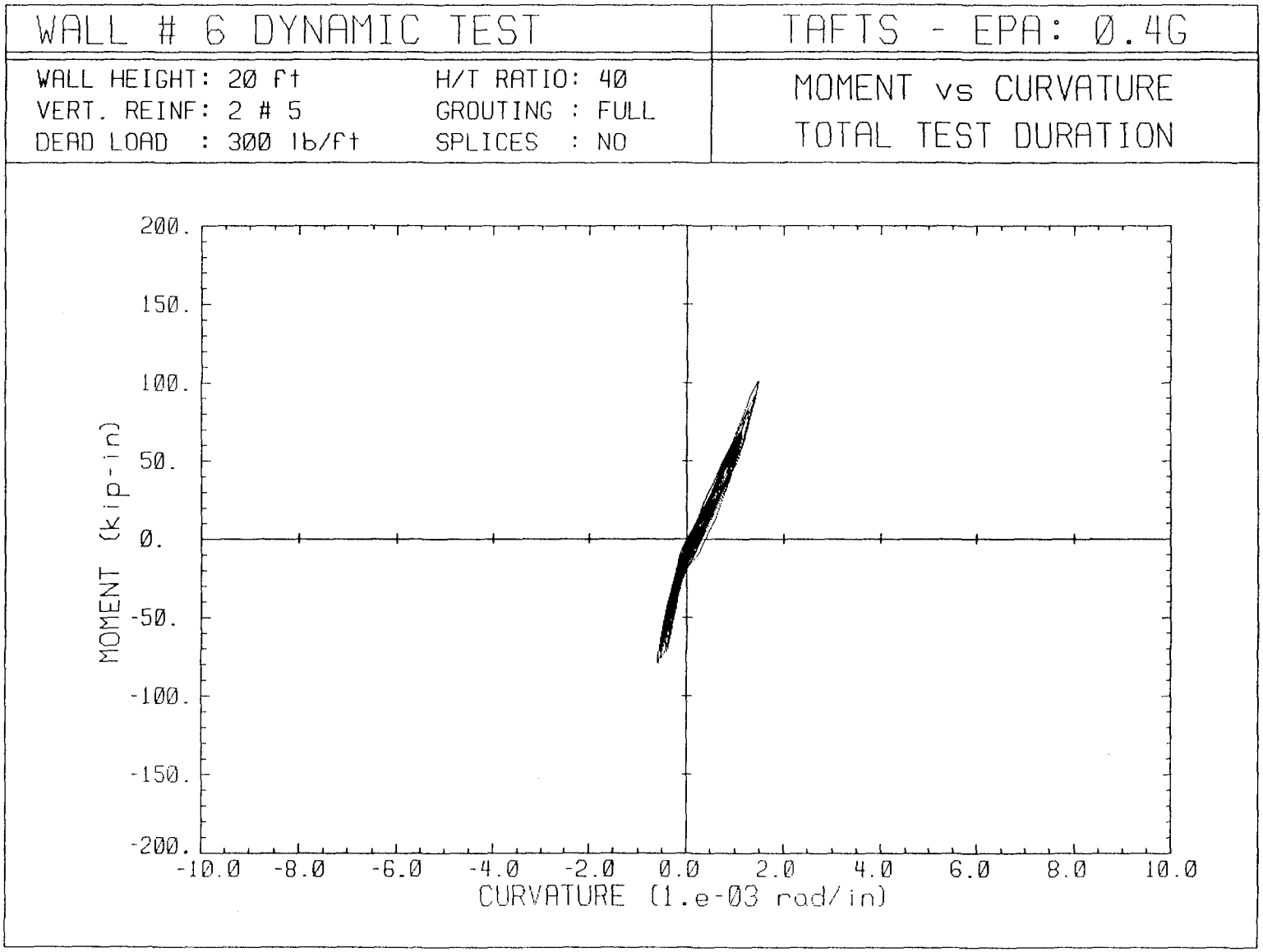
| WALL # 6 DYNAMIC TEST | | MS5 - EPA: 0.4G |
|---|---|---|
| WALL HEIGHT: 20 ft | H/T RATIO: 40 | MOMENT vs CURVATURE |
| VERT. REINF: 2 # 5 | GROUTING : FULL | TOTAL TEST DURATION |
| DEAD LOAD : 300 lb/ft | SPLICES : NO | |

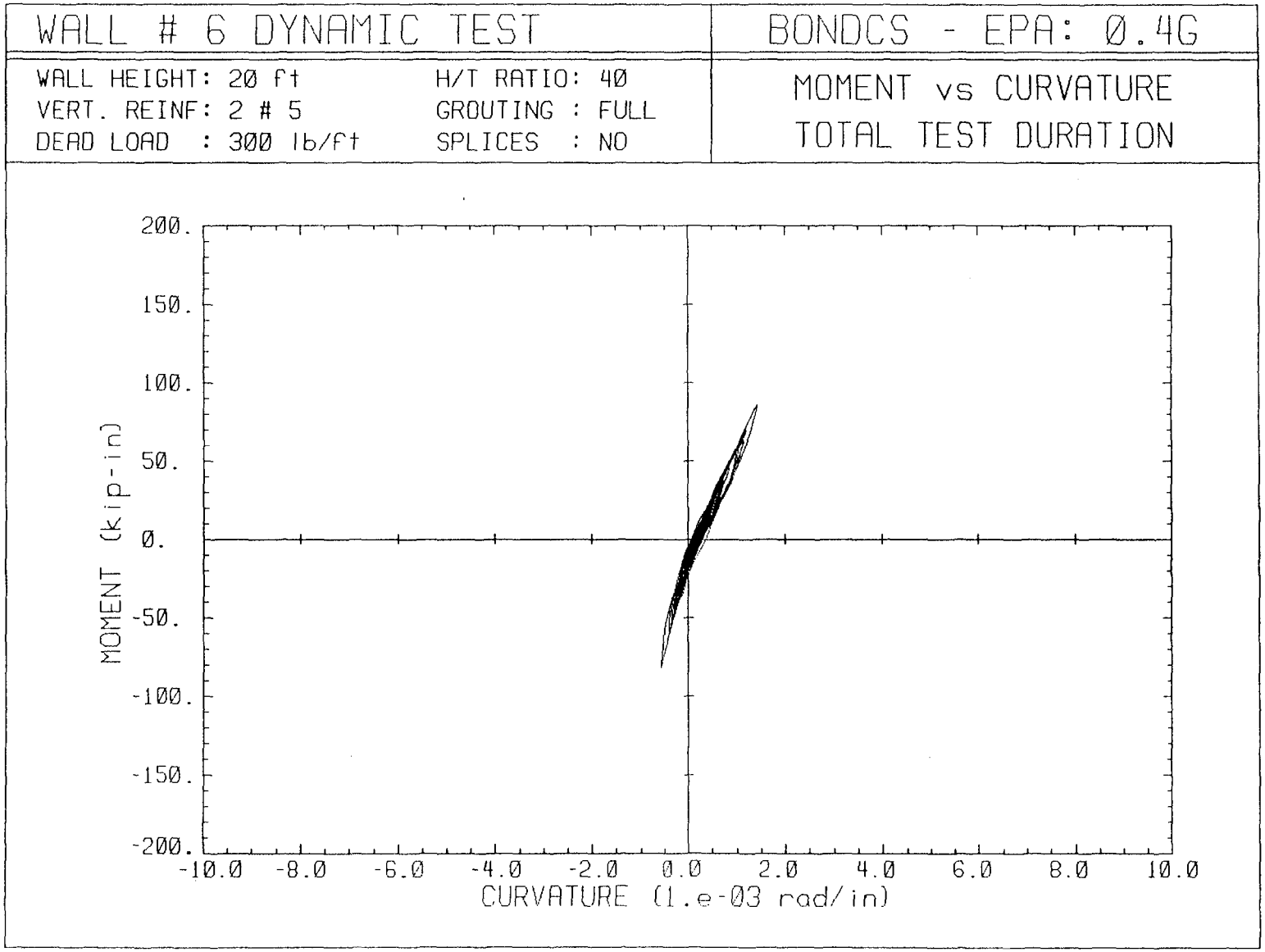


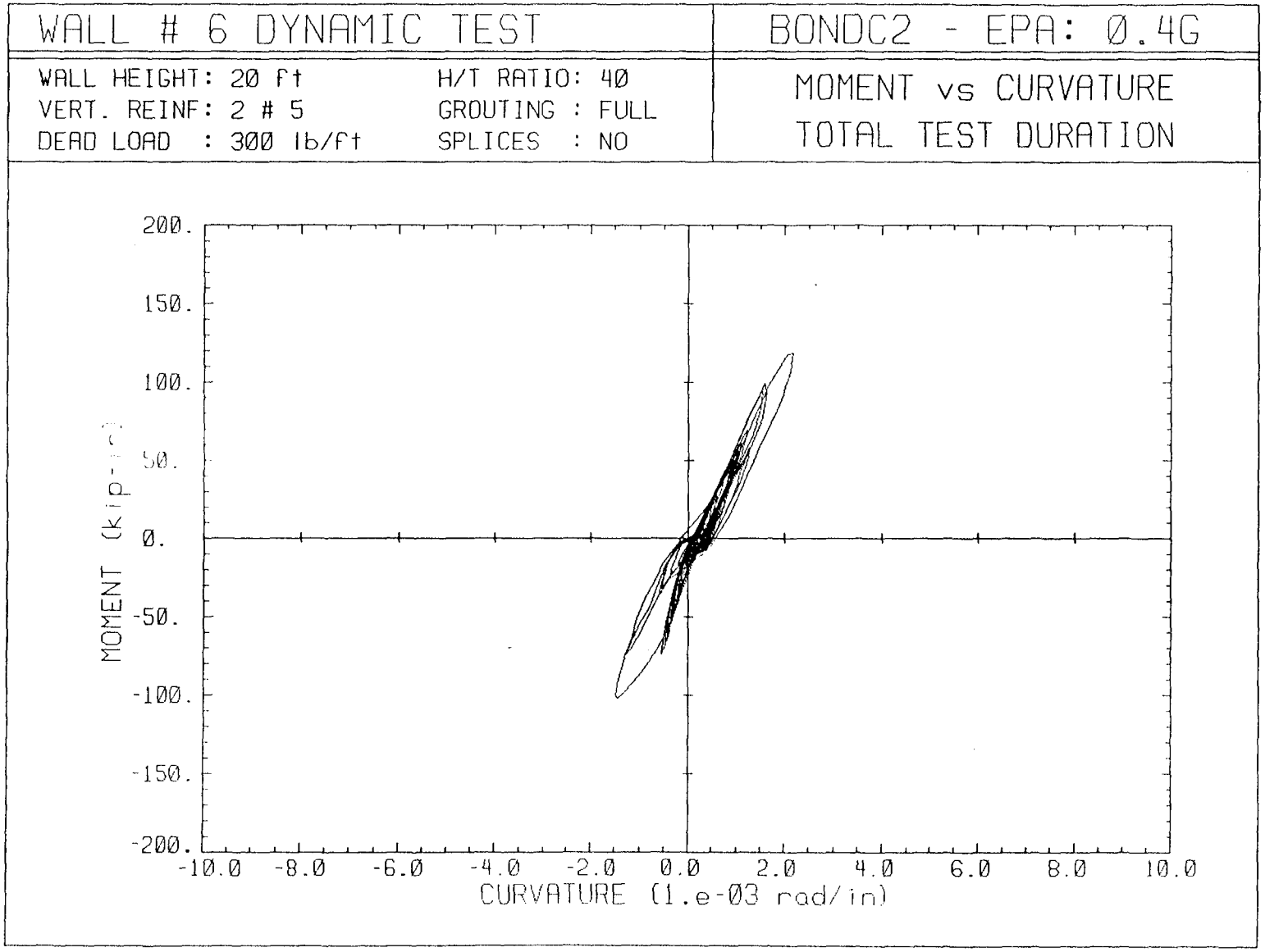

WALL # 6 DYNAMIC TEST
MS6 - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

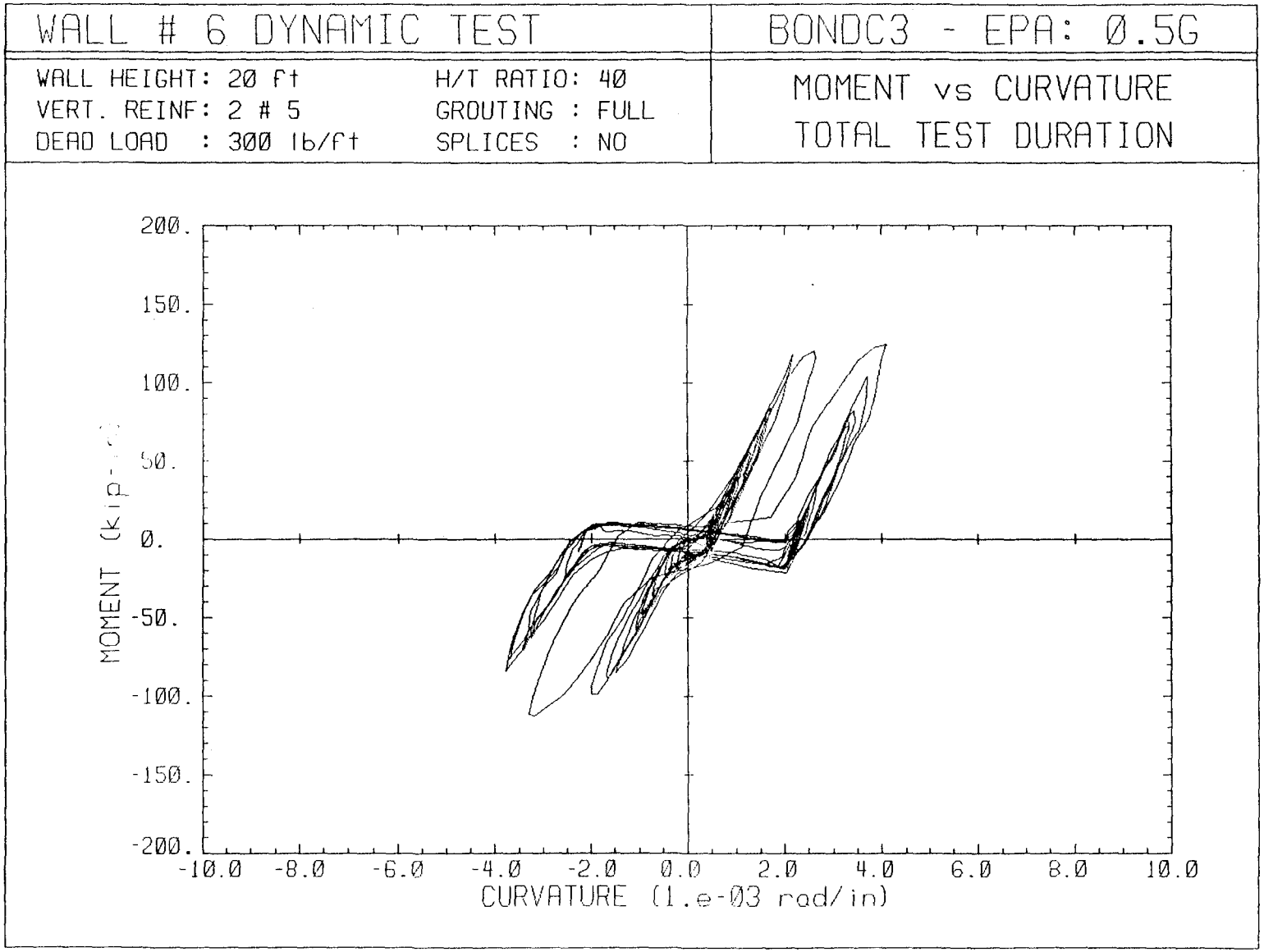

WALL # 6 DYNAMIC TEST
ELC - EPA: 0.4G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 300 lb/ft
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

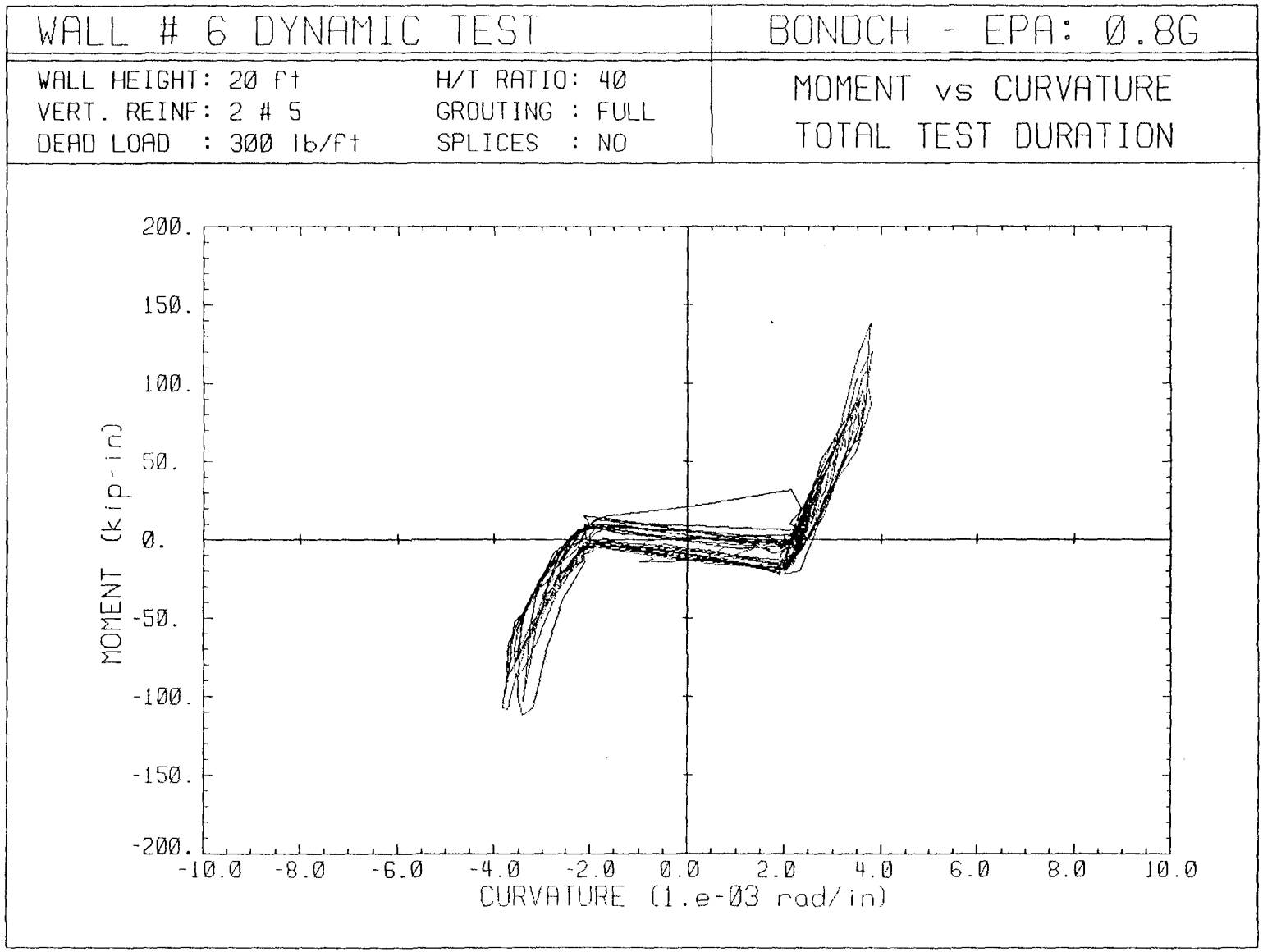

WALL # 6 DYNAMIC TEST
BONDC - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)

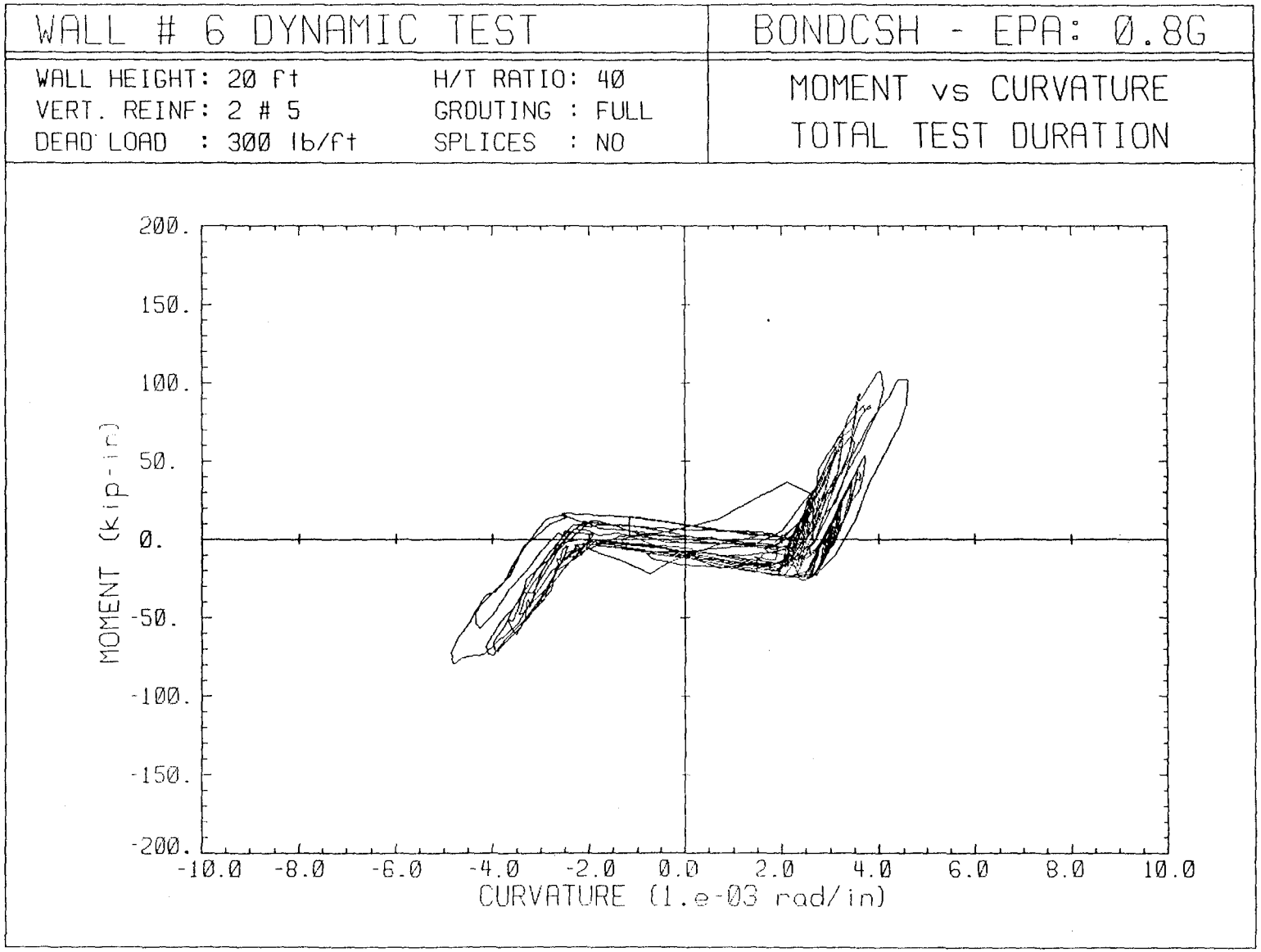

WALL # 6 DYNAMIC TEST
TAFTS - EPA: 0.4G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 300 lb/ft
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)


WALL # 6 DYNAMIC TEST
BONDCS - EPA: 0.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)


WALL # 6 DYNAMIC TEST
BONDC2 - EPA: Ø.4G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
MOMENT (kip-in)
-10.0 -8.0 -6.0 -4.0 -2.0 0.0 2.0 4.0 6.0 8.0 10.0
CURVATURE (1.e-03 rad/in)


WALL # 6 DYNAMIC TEST
BONDC3 - EPA: Ø.5G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
MOMENT (kip-
-10.Ø -8.Ø -6.Ø -4.Ø -2.Ø 0.0 2.Ø 4.Ø 6.Ø 8.Ø 10.Ø
CURVATURE (1.e-Ø3 rad/in)


WALL # 6 DYNAMIC TEST
BONDCH - EPA: Ø.8G
WALL HEIGHT: 20 ft
VERT. REINF: 2 # 5
DEAD LOAD : 300 lb/ft
H/T RATIO: 40
GROUTING : FULL
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
Ø.
-50.
-100.
-150.
-200.
-10.0 -8.0 -6.0 -4.0 -2.0 0.0 2.0 4.0 6.0 8.0 10.0
CURVATURE (1.e-03 rad/in)


WALL # 6 DYNAMIC TEST
BONDCSH - EPA: 0.8G
WALL HEIGHT: 20 ft
H/T RATIO: 40
VERT. REINF: 2 # 5
GROUTING : FULL
DEAD LOAD : 300 lb/ft
SPLICES : NO
MOMENT vs CURVATURE
TOTAL TEST DURATION
MOMENT (kip-in)
200.
150.
100.
50.
0.
-50.
-100.
-150.
-200.
-10.0
-8.0
-6.0
-4.0
-2.0
0.0
2.0
4.0
6.0
8.0
10.0
CURVATURE (1.e-03 rad/in)