3EANI DEF

BEAM DEFLECTION AT N^TH POINTS (63120)

173

S. H. No. _____ Project _____

Project No. _____ Control Sect. No. _____ By _____ Chk. _____ Date _____

L in Feet — I in Ft^4 (1) or In^4 (2)

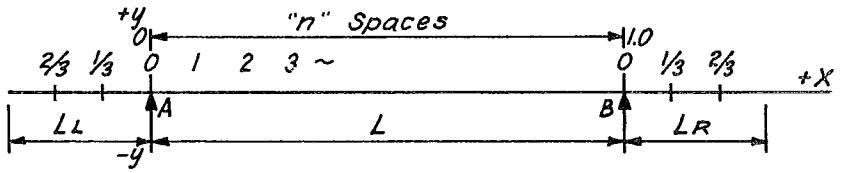
M in Kip Feet — E in psi

W in Kips per foot — Sign of M + if tension in bottom

If load is single concentrated or uniform do not list M at N^TH points.

member ② ⑥ reverse.

IDENT. 1–4	BM. NO. 5–6
1 1 1 1	0 1



LIST 1 FOR BM. CONSTANTS & F.E.M.

(KIP)

	7–8 NO. SPA.	9–10 I	11–14 CONC. LOAD	15–16 AT PT.	17–20 CONC. LOAD	21–22 AT PT.	23–26 CONC. LOAD	27–28 AT PT.	29–32 CONC. LOAD	33–34 AT PT.	35–38 CONC. LOAD	39–40 AT PT.
1	1 0	2	0	0	0	0	0	0	0	0	0	0

(10 18*0) 20*0

41–44 CONC. LOAD.	45–46 AT PT.	47–50 CONC. LOAD	51–52 AT PT.	53–56 CONC. LOAD	57–58 AT PT.	59–62 CONC. LOAD	63–64 AT PT.	65–68 CONC. LOAD	69–70 AT PT.	71
0	0	0	0	0	0	0	0	0	0	1

	7–8	8–14 L	15–21 M_o	22–28 $M_{L.O}$	29–35 I_o	36–42 $I_{L.O}$
2		1483	0	0	6368	6724

NOTE: List M & I for (n-1) Points

43–49 W	50–57 E	58
1	29,000,000	0 1 2

Number of Cantilevers

POINT 7–8	9–15 M	16–22 I
0 1	0	4601
0 2	0	3192
0 3	0	2105
0 4	0	1298
0 5	0	729
0 6	0	729
0 7	0	729
0 8	0	992
0 9	0	3001
1 0		
1 1		
1 2		
1 3		
1 4		
1 5		

7–8	9–15 M	16–22 I
1 6		
1 7		
1 8		
1 9		
2 0		
2 1		
2 2		
2 3		
2 4		
2 5		
2 6		
2 7		
2 8		
2 9		
3 0		

CANTILEVER CARDS

	7–8	8–14 L_L	15–21 $M_{2/3}$	22–28 $M_{1/3}$	29–35 M_o	36–42 $I_{2/3}$
3						

Cantilever on Left →

43–49 $I_{1/3}$	50–56 I_o

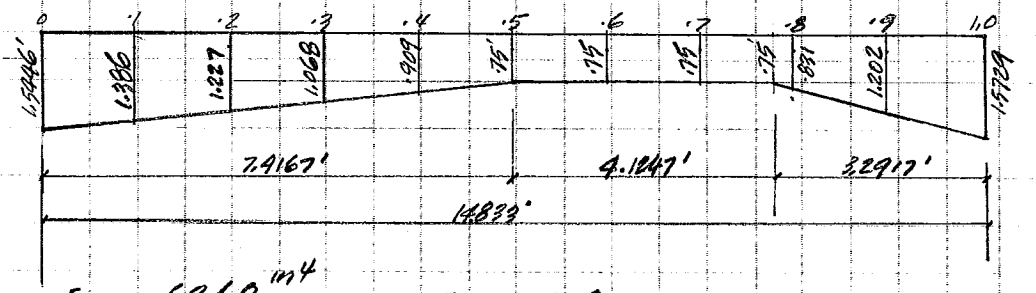
	L_R				
4					

Cantilever on Right →

3300339

HF 33.41

BEAM DEFLECTION AT NTH POINTS [EXT cell]

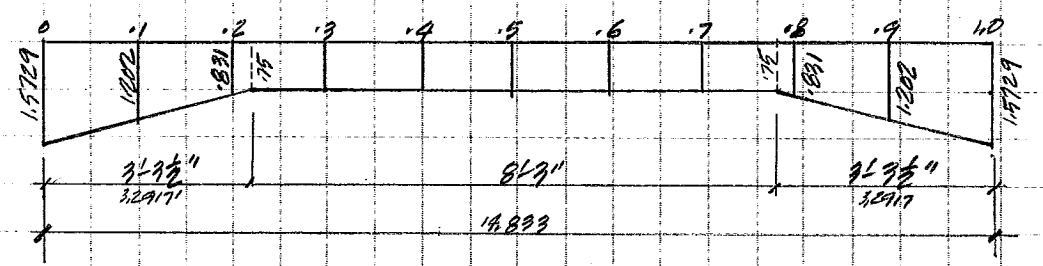


$I_0 = 6{,}368^{in^4}$
$I_{.1} = 4{,}601$
$I_{.2} = 3{,}192$
$I_{.3} = 2105$
$I_{.4} = 1298$

$I_{.5} = 729$
$I_{.7} = 729$

$I_{.8} = 992$
$I_{.9} = 3001$
$I_{1.0} = 6724$

BEAM DEFLECTION AT NTH POINTS [INT CELL]



$I_0 = 6724^{in^4}$
$I_{.1} = 3{,}001$
$I_{.2} = 992$

$I_{.3} = 729$
$I_{.7} = 729$

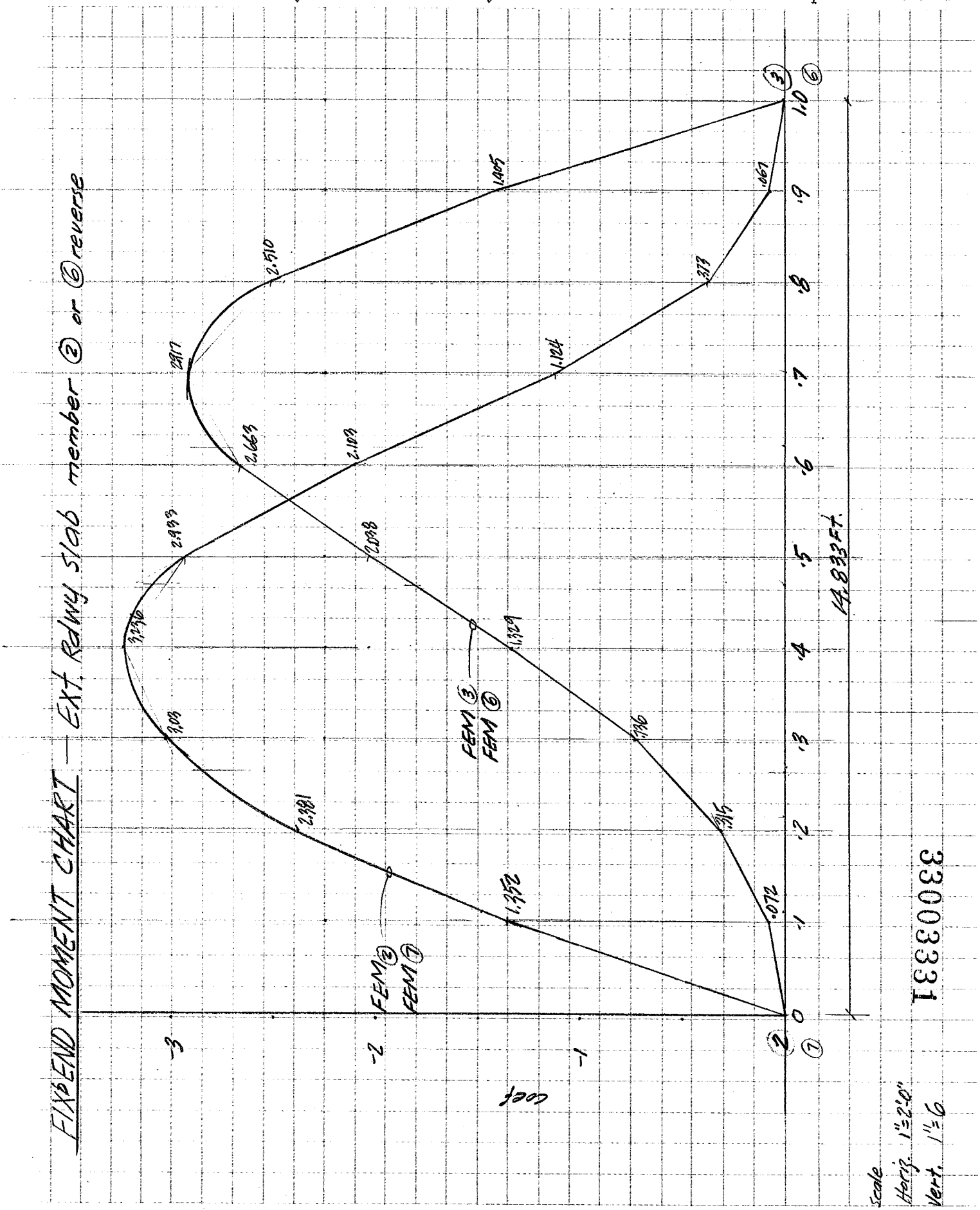
$I_{.8} = 992$
$I_{.9} = 3001$
$I_{1.0} = 6724$

33003330

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
BRIDGE & STRUCTURES BRANCH

Project..... Sheet No. 175 of ..... sheets

S. R. ..... Made by ..... Check by ..... Date ..... Supv. .....



33003331

Scale
Horiz. 1"=2'-0"
Vert. 1"=6

DOT Form 232-007 Revised 10/82

Sheet No.

BEAM DEFLECTION AT N^TH POINTS (63120)

__S. H. No.____ Project _____

Project No._____ Control Sect. No._____ By_____ Chk._____ Date_____

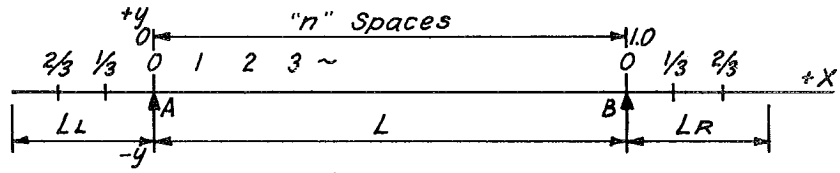
L in Feet — I in Ft^4 (1) or In^4 (2) — L 7579.

M in Kip Feet — E in psi

W in Kips per foot — Sign of M + if tension in bottom member ③, ④, ⑤

If load is single concentrated or uniform do not list M at N^TH points.

IDENT. 1 4	BM. NO. 5 6
2222	02



LIST 1 FOR BM. CONSTANTS & F.E.M.

(KIP)

7 8 9 10	11 14	15 16	17 20	21 22	23 26	27 28	29 32	33 34	35 38	39 40
1 NO. SPA. 10	I 2	CONC. LOAD 0	AT PT. 0	CONC. LOAD 0	AT PT. 0	CONC. LOAD 0	AT PT. 0	CONC. LOAD 0	AT PT. 0	CONC. LOAD 0

41 (10 44	45 46	47 18*0 50	51 52	53 56	57 58	59 62	63 64	65 68	69 70	71
CONC. LOAD. 0	AT PT. 0	CONC. LOAD 0	AT PT. 0	CONC. LOAD 0	AT PT. 0	CONC. LOAD 0	AT PT. 0	CONC. LOAD 0	AT PT. 0	1

7 8 14	15 21	22 28	29 35	36 42
2 L 1483	Mo 0	M1.0 0	Io 6724	I1.0 6724

NOTE: List M & I for (n-1) Points

43 49	50 57	58
W 1	E 29,000,000	0 1 2

Number of Cantilevers

POINT 7 8	9 M 15	16 I 22
01	0	3001
02	0	992
03	0	729
04	0	729
05	0	729
06	0	729
07	0	729
08	0	992
09	0	3001
10		
11		
12		
13		
14		
15		

7 8	9 M 15	16 I 22
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		

CANTILEVER CARDS

7 8 LL 14	15 M 2/3 21	22 M 1/3 28	29 Mo 35	36 I 2/3 42
3				

Cantilever on Left →

43 I 1/3 49	50 Io 56

LR				
4				

Cantilever on Right →

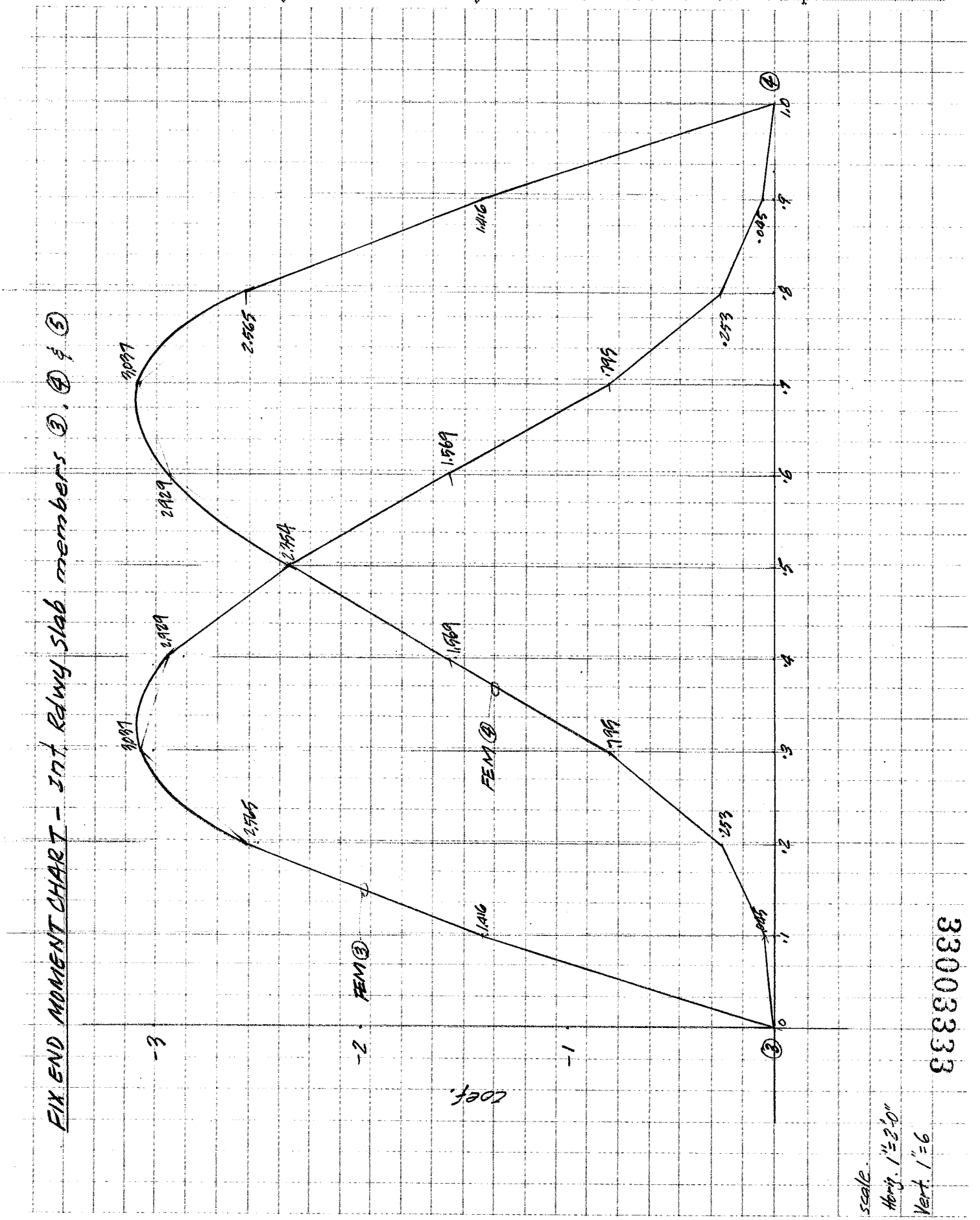
HF 33.41

33003332

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
BRIDGE & STRUCTURES BRANCH

Project..... Sheet No. 178 of ..... sheets

S. R. ..... Made by ..... Check by ..... Date ..... Supv. .....



Scale.
Horz. 1" = 3'-0"
Vert. 1" = 6

33003333

DOT Form 232-007 Revised 10/82

Sheet No.