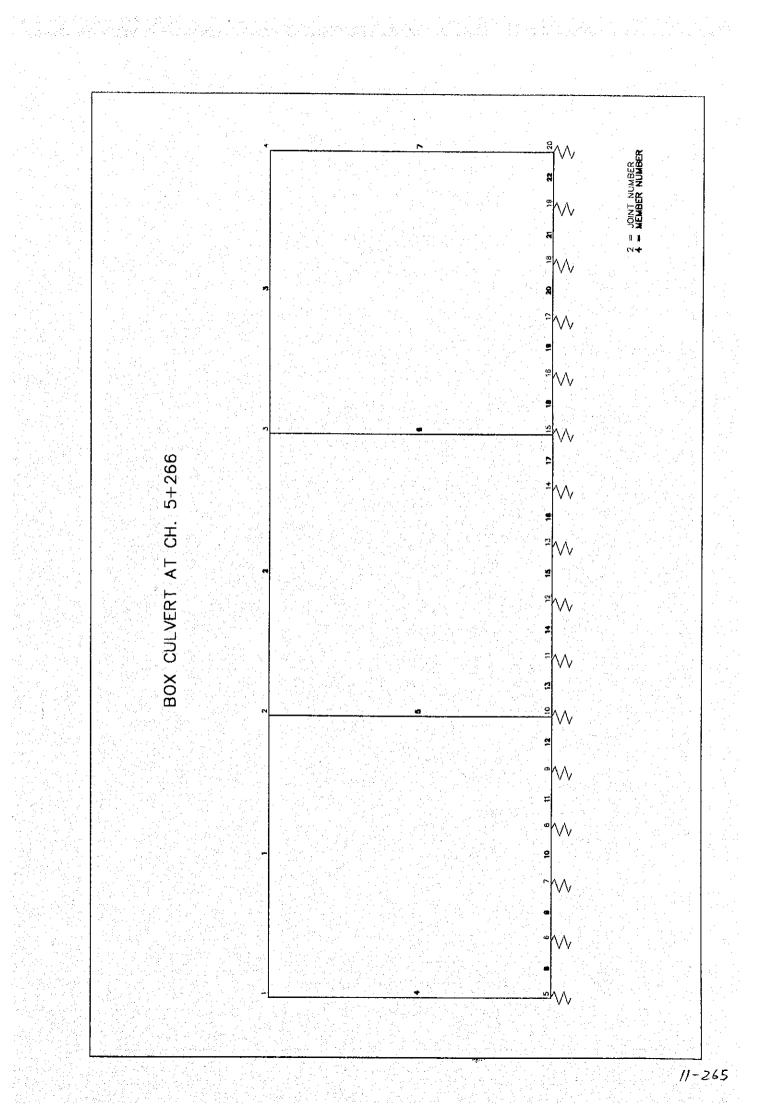
## 2-1-6 BOX CULVERT AT CH.6+266 (1) BOX CULVERT



STAAD - III Revision 22.3a Proprietary Program of Research Engineers, Inc. JAN 30, 2000 Date= Time= 11:50:35 USER ID: Development Design Consultants L 1. STAAD PLANE DESIGN OF BOX CULVERT AT CH. 5+266 (3 X 4.0 X 4.0) 2. UNIT METER KNS 3. PAGE LEN 80 4. JOINT COORD 5. 1 0.00 4.34 0.00 4.34 0.00 6. 2 4.25 7. 3 8.49 4.34 0.00 4.34 0.00 8. 4 12.74 10 9. 5 0.00 0.00 0.00 4.25 0.00 0.00 10. 11 5.09 0.00 0.00 15 8.49 0.00 0.00 11. 16 9.34 0.00 0.00 20 12.74 0.00 0.00 12. MEMBER INCI 1 2 3 13. 1. 14. 4 1 -5 15. 2 10 5 3 15 16. 6 17. 7 4 20 5 18. 8 6 22 19. MEMBER PROPERTY YD 0.350 ZD 1.0 20. 1 TO 3 PRIS 0.300 ZD 1.0 21. 4 7 PRIS YD 22.5 6 PRIS YD 0.250 2D 1.0 23. 8 TO 22 PRIS YD 0.325 ZD 1.0 24. CONSTANT 25. E 23.667E6 ALL 26. DENSITY 23.56 ALL 27. SUPPORT 28. \*6 TO 19 FIXED BUT MZ KFY 1698 849 29. \*5 20 FIXED BUT MZ KFY : 30.5678 FIXED BUT MZ KFY 2547 31. 9 TO 16 FIXED BUT MZ KFY 1683 32. 17 18 19 20 FIXED BUT MZ KFY 🔅 2547 34. \* 35. LOAD 1 : SELFWEIGHT 36. SELFWEIGHT Y -1 37. LOAD 2 : FILL WEIGHT 38. MEMBER LOAD 39.1 TO 3 UNI GY -14.91 40. LOAD 3 : BACK FILL (MINIMUM) 41. MEMBER LOAD 4.56 25.06 42. 4 TRAP 🖗 GX GX 43. 7 TRAP 44. LOAD 4 : BACK FILL (MAXIMUM) 45. MEMBER LOAD 46. 4 TRAP 12.96 31.62 0.00 1.98 GX 31.62 61.39 1.98 4.34 47. 4 TRAP GX 48. 7 TRAP -12.96 -31.62 0.00 1.98 GX -31.62 -61.39 1.98 4.34 GX 49. 7 TRAP 50. LOAD 5 : LL IN ADJACENT SPANS 51. MEMBER LOAD GY -51.35 1.43 2.81 GY -51.35 1.45 2.84 52. 1 UNI 53. 2 UNI : LL IN ALTERNATE SPAN 54. LOAD 6 55. MEMBER LOAD -51.35 1.43 2.81 1 UNI GY 56. GY -51.35 1.43 2.81 57. 3 UNT 58. LOAD 7 : LL IN SPAN 1 59. MEMBER LOAD

GY -51.35 1,43 2.81 60. 1 ONI 61. LOAD 8 : LL IN SPAN 2 62. MEMBER LOAD 63. 2 UNI GY -51.35 1.43 2.81 64. LOAD 9 : MILITARY LOADING IN SPAN 1 65. MEMBER LOAD -33.18 66. 1 UNI GY 0.82 2.12 67. 1 UNI GY -33.18 2.12 3.42 68. LOAD 10 : MILITARY LOADING IN SPAN 2 69. MEMBER LOAD GY GY-33.180.822.12GY-33.182.123.42 70. 2 UNI 71. 2 UNI 72. LOAD 11 : LL IN SPAN 1 FOR MAX. SHEAR 73. MEMBER LOAD 74. 1 UNI GY -51.35 0.00 1.38 75. LOAD 12 : MILITARY LOADING IN SPAN 1 FOR MAX. SHEAR 76. MEMBER LOAD 0.00 1.30 77. 1 UNI GY -33.18 78. 79. \* 1 UNI GY -33.18 1.30 2.60 80. LOAD COMB 13 81. 1 1.3 2 1.3 4 1.3 11 2.171 82. LOAD COMB 14 83. 1 1.3 2 1.3 4 1.3 12 2.171 84. \* 85. LOAD COMB 15 86. 1 1.3 2 1.3 4 1.3 5 2.171 87. LOAD COMB 16 88.1 1.3 2 1.3 4 1.3 6 2.171 89. LOAD COMB 17 90. 1 1.3 2 1.3 4 1.3 7 . 2.171 91. LOAD COMB 18 92. 1 1.3 2 1.3 4 1.3 8 2.171 93. LOAD COMB 19 94.1 1.3 2 1.3 4 1.3 9 2,171 95. LOAD COMB 20 96. 1 1.3 2 1.3 4 1.3 10 2.171 97. \*: 98. LOAD COMB 21 99. 1 1.3 2 1.3 3 1.3 5 2.171 100. LOAD COMB 22 101. 1 1.3 2 1.3 3 1.3 6 2.171 102. LOAD COMB 23 103. 1 1.3 2 1.3 3 104. LOAD COMB 24 1.3 . 7 2.171 105. 1 1.3 2 1.3 3 1.3 8 2.171 106. LOAD COMB 25 107. 1 1.3 2 1.3 3 1.3 108. LOAD COMB 26 9 2.171 109. 1 1.3 2 1.3 3 1.3 10 2.171 110. LOAD COMB 27 111. 1 1.3 4 1.3 112. \*

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#### 113. PERFORM ANALYSIS

PROBLEM STATISTICS

NUMBER OF JOINTS/MEMBER+ELEMENTS/SUPPORTS = 20/ 16 22/ ORIGINAL/FINAL BAND-WIDTH = 16/ 4 TOTAL PRIMARY LOAD CASES = 12, TOTAL DEGREES OF FREEDOM = SIZE OF STIFFNESS MATRIX = 440 DOUBLE PREC. WORDS REQRD/AVAIL. DISK SPACE = 12.05/ 216.9 MB, EXMEM = 1956.5 MB 11:50:35 ++ Processing Element Stiffness Matrix. ++ Processing Global Stiffness Matrix. 11:50:35 ++ Processing Triangular Factorization. 11:50:35 11:50:35 ++ Calculating Joint Displacements. ++ Calculating Member Forces. 11:50:35

114. LOAD LIST 13 TO 27 115. PRINT MAXFORCE ENVELOP LIST 1 2 4 5 8 TO 17

MEMBER FORCE ENVELOPE

ALL UNITS ARE KNS METE

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MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

				ele da						
MEMB		FY/	DIST	LD	MZ/	DIST	LD : LD			
		F2	DIST	LD	MY	DIST	LD	FX	DIST	LD
1	MAX	190.69	. 00	14	132.60	.00	15			
-		.00	.00	13	.00	.00	13	97.63 C	.00	15
	MIN	-159.77	4.25	25	-124.46	2.13	23			
		.00	4.25	27	.00	4.25	27	37.83 C	4.25	22
2	MAX	157.53	.00	26	108.24	00	21			
		.00	.00	13	.00	.00	13	118.06 C	.00	20
11	MIN	-157.40	4.24	20	-134.45	2.12	18			
n de la composición de la comp		.00	4.24	27	.00	4.24	27	36.45 C	4.24	22
4	MAX	133.31	4.34	13	48.63	2.53	27			
1.0	1967 - Des	.00	.00	13	.00	.00	13	230.57 C	4.34	14
e e Al anti-	MIN	-97.63	.00	15	-132.60	.00	15			
		.00	4.34	27	.00	4.34	27	36.29 C	3.98	27
5	MAX	2.16	.00	25	45.83	4.34	26			
÷ 1.		.00	.00	13	.00	.00	13	316.36 C	4.34	21
	MIN	-22.56	4.34	20	-53.78	.00	20			
		.00	4.34	27	.00	4.34	27	32.02 C	3.98	27
8	MAX	-46.39	.00	27	74.87	.85	21			
di selia	1.11	.00	. 00	13	.00	.00	13	.00	.00	13
	MIN	-147.14	. 85	14	-106.94	.00	13			
		.00	.85	27	.00	.85	27	.00	.85	27
	i in thui									
· 9	MAX	-11.83	.00	26	101.27	.85	21			
		.00	.00	13	.00	.00	13	.00	.00	13
	MIN	-72.73	.85	13	-17.90	.00	27		0.5	07
		.00	. 85	27	.00	.85	27	.00	.85	27
10	MAX	45.36	.00	21	101.27	.00	21			
		.00	.00	13	.00	.00	13	.00	.00	13
	MIN	-10.67	. 85	27	6.41	.00	27			
		.00	.85	27	.00	.85	27	.00	.85	27
11	MAX	118.76	.00	21	74.01	.00	14			
19	1.1	.00	.00	13	.00	.00	13	.00	.00	13
1.4.4	MIN	11.69	.85	27	-35.99	.85	20			
	1.11	.00	.85	27	.00	.85	27	.00	.85	27
e e e							ina di minina Manaziri			e de la construcción Construcción de la construcción de la construcción de la construcción de la construcción de

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11-268

MEMB		FY/ F2	DIST DIST	LD LD	M2/ My	DIST DIST	LO LD	FX	DIST	LD
12	MAX	166.21	.00	21	18.23	.00	13			
	1.1.1	.00	.00	ii <b>13</b>	.00	.00	13	.00	.00	1.3
с <sup>1</sup> . с	MIN	23.90	.85	27	-168.73	.85	21	1.1.1.1.1		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
- 11		.00	.85	27	.00	.85	27	.00	.85	27
13	MAX	-20.46	.00	27	→.67	.84	27	n ng Nganang	і 11 - 44	el e
, starik Lak		.00	.00	13	.00	.00	13	.00	.00	13
	MIN	-109.92	.84	21	-136.01	.00	21		r an eile. Zha a' the	i se si i
		.00	.84	27	.00	.84	27	.00	.84	27
14	MAX	-8.01	.00	27	23.05	.85	13			
		,00	.00	13	.00	.00	13	.00	.00	13
· .	MIN	-62.32	.85	21	-47.19	.00	21		ter en en el com	
		.00	85	27	.00	.85	27	.00	.85	27
15	MAX	4.20	.00	27	24.23	.85	14			
	, i ta kin	.00	.00	13	.00	.00	13	.00	.00	13
a a di Vi	MIN	-18.92	.85	25	2.19	.00	21	n Alexandra		en e
Ngang T		.00	.85	27	.00	.85	27	.00	.85	27
16	MAX	45.59	.00	22	24.23	.00	14			a tat
		.00	.00	13	.00	.00	13	.00	.00	13
	MIN	7.96	.85	27	-29.72	.85	26		in a star	
		.00	.85	27	.00	.85	27	.00	.85	27
17	мах	87.19	.00	22	6.05	.00	19			
	t de la composición d Composición de la composición de la comp	.00	.00	13	.00	.00	13	.00	.00	13
	MIN	20.31	.85	27	-96.26	.85	26		e Maria Araba Araba	
		.00	.85	27	.00	.85	27	.00	.85	27
117	. FC	RT CONC DES	IGN							

117. FC 25000.0 118. TRACK 2 119. MAXMAIN 20. 120. CLEAR 0.05 121. DESIGN BEAM 1 2

#### BEAM NO. 1 DESIGN RESULTS - FLEXURE

LEN - 4250. MM	FY - 414. FC -	25. MPA,	SIZE - 1000. X	350. MMS
LEVEL HEIGHT	BAR INFO	FROM	TO	ANCHOR
(MM)		(MM)	(MM)	STA END

 1
 71.
 7 - 16MM
 69.
 4250.
 NO
 YES

 CRITICAL POS MOMENT=
 134.71 KN-MET
 AT
 2040.MM, LOAD
 22
 REQD STEEL=
 1360.MM2, ROW=.0049, ROWMX=.0194 ROWMN=.0033
 0033
 MAX/MIN/ACTUAL BAR SPACING=
 882./
 41./
 147. MMS
 BASIC/REQD. DEVELOPMENT LENGTH =
 316./
 462. MMS

2 281. 12 - 12MM 0. 2838. YES	NO
CRITICAL NEG MOMENT= 132.60 KN-MET AT 0.MM, LOAD 15 REQD STEEL= 1337.MM2, ROW= .0048, ROWMX= .0194 ROWMN= .0033 MAX/MIN/ACTUAL BAR SPACING= 886./ 37./ 81. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS	
	i ×

				literation a		
3	279. 5 -	16MM	2532.	4250.	NO	YES
REQD ST ! MAX/MIN	REEL= 963.M NACTUAL BAR	M2, ROW≕ SPACING≕	.80 KN-MET AT .0034, ROWMX= . .882./ 41./ GTH = 316./	0194 ROWN 221. MMS	ſN= .0033	
REQUIRED RE	CINF. STEEL S	UMMARY :				•
SECTION	BEINE STEEL	(+VE/-VE	) MOMENTS(+V	E/-VEI	LOAD ( +VE	/-VE)
( MM )	(SQ. MM		(KNS-M		LOID ( L	,,
0.	0./	1372.	0./	133.	0/	15
354.	0./	814.	0./	80.	0/	20
708.	348./	561.	35./	56.	13/	20
1062.	672./	350.	67./	35.	25/	20
1417.	997./	180.	98./	18.	25/	20
1771.	1203./	96.	117./	10.	22/	27
2125.	1395./	42.	135./	4.	22/	27
2479.	1180./	1.	115./	0.	23/	27
2833.	960./	0.	94./	0.	25/	0
3187.	616./	30.	61./	3.	25/	13
3542.	174./	270.	18./	27.	19/	13
3896.	28./	553.	3./	55.	27/	13
4250.	3./	987.	0./	97.	27/	14

BEAM NO. 1 DESIGN RESULTS - SHEAR

 AT START SUPPORT - Vu=
 162.65 KNS
 Vc=
 228.01 KNS
 Vs=
 .00 KNS

 PROVIDE 12 MM BARS AT 137. MM
 C/C FOR
 885, MM

 AT END
 SUPPORT - Vu=
 151.50 KNS
 Vc=
 228.01 KNS
 Vs=
 .00 KNS

 PROVIDE 12 MM BARS AT 137. MM
 C/C FOR
 1240. MM

1J	4249X	999x :	349		2J
		i en el			
12No12 H 281.  0.T				279.2532.	 
8*12c/c137       7No16 H 71.  69.T					
			+ )   Majajazja:		
					신간 HT

	[2] An A. S. Sandar, "A strain of the str	of the factor of the state of the	
•	0000000000		00000
1.1			
	12#12	12#12	<b>5#16</b>
	le en la centre de la compañía 👔		
		7#16	1 7#16 1 2 Parts a second second
	1	0000000 ( )	0000000
		$= \left[ \left[ \left[ \frac{1}{2} + 1$	
	la de la companya de	그는 말한 말을 다 못 못 한 것이 같아. 이 가지 않는 것이 같아.	First a flat to the sharing a boot and the state

BEAM NO. 2 DESIGN RESULTS - FLEXURE

LEN	- 4	240. MM	1 FY -	414. 1	FC -	25.	MPA,	SIZE -	1000.	X 350.	MMS
LEV	EL	HEIGHI	B₽	R INFO		FROM		то		ANCH	OR
		(MM)				(MM)		(MM)	an Maria An Anna An Anna Anna	STA	END

· · · · · · · · · · · · · · · · · · ·						
1 7	1. 7 -	l 6mm	0.	4240.	YES YES	1
REQD STEE   MAX/MIN/A	L= 1357.MM CTUAL BAR S	2, ROW= .0 PACING=	5 KN-MET AT 0049, ROWMX= . 882./ 41./ 4 = 316./	0194 ROWMN= 147. MMS	∍ .0033	
2 28	1. 10 -	1.2MM	0.	4240.	YES YES	* 14 14 14
REQD STEE   MAX/MIN/A	L= 1073.MM CTUAL BAR S	2, ROW= .0 PACING=	I KN-MET AT 0038, ROWMX= . 886./ 37./ H = 177./	0194 ROWMN= 98. MMS	• .0033   	
REQUIRED REIN	F. STEEL SU	MMARY :				
	EINF STEEL( (SQ. MM		MOMENTS (+V (KNS-M	E/-VE) I ET )	JOAD (+VE/-VE	;)
0.	0./	1109	0./	108.	0/ 21	
	6 /				27/ 14	
707.	225 /			40.		
1060.	767 /	397. 262.	76./	26.	20/ 22	e y de
1413.	1104./	108	108./	17.	20/ 22	
1767.	1310./	111.	127./	11.	20/ 22	1.1.1
2120.	1392./	92.	134./	9.	······································	
2473.	1310./	110.	127./	11.	20/ 22	
2827.	1105./	166.	108./			a de la composición de
3180.	769./	259.	76./	26.	20/ 22	1, e <sup>1</sup> e - e
3533.	317./		32./	39.	20/ 22	the second
3887. 4240.		563.	1./	56.	27/ 22	an an
4240.	0./	822.	0./	81.	27/ 22 0/ 21	
	PORT - Vu=	149.26 KN	G N R E S U NS VC= 228.0 BARS AT 137.	1 KNS Vs=	.00 KNS	
in a start of the			NS Vc= 228.0 BARS AT 137.			
2J		4239)	(999x 349		3	J
===================================			*************	**********		.====`
10No12 H 281.    13*12c/c137     7No16 H 71.	1111 <b>1</b> 111		) (11) (12) (13) (13) (14) (15) (15) (15) (15) (15) (15) (15) (15) (15) (15) (15)		   13*12c/c13 	   
en e	a de la companya de l	t <u>e Norre</u> te de	udale ta eservición en e	<u>n e e Mersed de l</u>	an george and the second	
1   00000000  10#12	 >00   	   000  10#12	0000000	     c    10#12	000000000	
		<b>1</b> - 1967 - 19		fi i staar		·
7#16   000000	)0   	7#16   	000000	7#16     	000000	
		1 <u></u>		F		

122. CLEAR 0.065 123. DESIGN BEAM 4 5 8 TO 17

EN - 434	0. MM FY -	414. FC -	25. MPA,	3125 - 1000	300.	
EVEL H	EIGHT BA (MM)	R INFO	FROM (MM)	ТО (MM)		CHOR EN
1	88. 6	- 20MM	0.	4340.	YES	YE
REQD S MAX/MI	TEEL= 1831. N/ACTUAL BAR	T= 132.60 MM2, ROW= .0 SPACING= PMENT LENGTH	086, ROWMX= 878./ 45.	= .0194 ROWM ./ 176. MMS	N= .0033	
2	216. 7	- 12MM	545.	4340.	NO	YE
REQD S MAX/MI	TEEL= 721. N/ACTUAL BAR	T= 48.63 MM2, ROW= .0 SPACING= PMENT LENGTH	033, ROWMX- 886./ 37	= .0194 ROWM ./ 148. MMS	N= .0033	
REQD S MAX/MI BASIC/	TEEL= 721. N/ACTUAL BAR REQD. DEVELO REINF. STEEL REINF STEE	MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : L(+VE/-VE)	033, ROWMX- 886./ 37 = 177./ 	= .0194 ROWM ./ 148. MMS 359. MMS 	N= .0033	
REQD S MAX/MI BASIC/ EQUIRED F SECTION	TEEL= 721. N/ACTUAL BAR REQD. DEVELO REINF. STEEL REINF STEE (SQ. M	MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY :	033, ROWMX- 886./ 37 = 177./ 	= .0194 ROWM ./ 148. MMS 359. MMS	N= .0033	
REQD S MAX/MI BASIC/ 	TEEL= 721. N/ACTUAL BAR REQD. DEVELO REINF. STEEL REINF STEE	MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : L(+VE/-VE) M )	033, ROWMX- 886./ 37 = 177./ 	= .0194 ROWM ./ 148. MMS 359. MMS 	N= .0033	           
REQD S MAX/MI BASIC/ EQUIRED F ECTION MM )	TEEL= 721. N/ACTUAL BAR (REQD. DEVELO EINF. STEEL REINF STEEL (SQ. M	MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : L(+VE/-VE) M )	033, ROWMX- 886./ 37 = 177./ MOMENTS (KN:	= .0194 ROWM ./ 148. MMS 359. MMS 	N= .0033  LOAD (+V)	     E/-1
REQD S MAX/MI BASIC/ EQUIRED F ECTION MM )	TEEL= 721. N/ACTUAL BAR REQD. DEVELO REINF. STEEL REINF STEEL (SQ. M 1877./	MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : L(+VE/-VE) M ) 0.	033, ROWMX= 886./ 37 = 177./ MOMENTS (KN: 133./ 98./ 67./	= .0194 ROWM ./ 148. MMS 359. MMS (+VE/-VE) S-MET ) 0.	N= .0033 LOAD(+V) 15/ 15/ 21/	 
REQD S MAX/MI BASIC/ EQUIRED F ECTION MM ) 0. 362. 723. 1085.	TEEL= 721. N/ACTUAL BAR (REQD. DEVELO REINF. STEEL (SQ. M 1877./ 1358./ 906./ 681./	MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : L(+VE/-VE) M) 0. 0. 0. 0. 170.	033, ROWMX= 886./ 37 = 177./ MOMENTS (KN: 133./ 98./ 67./ 51./	= .0194 ROWM ./ 148. MMS 359. MMS (+VE/-VE) S-MET ) 0. 0. 0. 13.	N= .0033 LOAD(+V) 15/ 15/ 21/ 21/	 
REQD S MAX/MI BASIC/ EQUIRED F ECTION MM ) 0. 362. 723. 1085. 1447.	TEEL= 721. N/ACTUAL BAR (REQD. DEVELO REINF. STEEL (SQ. M 1877./ 1358./ 906./ 681./ 480./	<pre>MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : L(+VE/-VE) M ) 0. 0. 0. 0. 170. 386.</pre>	033, ROWMX= 886./ 37 = 177./ MOMENTS (KN: 133./ 98./ 67./ 51./ 36./	= .0194 ROWM ./ 148. MMS 359. MMS (+VE/-VE) S-MET ) 0. 0. 0. 13. 29.	N= .0033 LOAD(+V) 15/ 15/ 21/ 21/ 21/	     -1   -1   -1   -1   -1   -1   -1
REQD S MAX/MI BASIC/ EQUIRED F ECTION MM ) 0. 362. 723. 1085. 1447. 1808.	TEEL= 721. N/ACTUAL BAR (REQD. DEVELO REINF. STEEL (SQ. M 1877./ 1358./ 906./ 681./ 480./ 310./	<pre>MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : L(+VE/-VE) M ) 0. 0. 0. 0. 170. 386. 545.</pre>	033, ROWMX= 886./ 37 = 177./ MOMENTS (KN: 133./ 98./ 67./ 51./ 36./ 24./	= .0194 ROWM ./ 148. MMS 359. MMS (+VE/-VE) S-MET ) 0. 0. 0. 0. 13. 29. 41.	N= .0033 LOAD(+V) 15/ 15/ 21/ 21/ 21/ 21/	     -1 -1 0 0 0 27 27 27
REQD S MAX/MI BASIC/ EQUIRED F ECTION MM ) 0. 362. 723. 1085. 1447. 1808. 2170.	TEEL= 721. N/ACTUAL BAR (REQD. DEVELO REINF. STEEL (SQ. M 1877./ 1358./ 906./ 681./ 480./ 310./ 207./	<pre>MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : L(+VE/-VE) M ) 0. 0. 0. 170. 386. 545. 636.</pre>	033, ROWMX= 886./ 37 = 177./ MOMENTS (KN: 133./ 98./ 67./ 51./ 36./ 24./ 16./	= .0194 ROWM ./ 148. MMS 359. MMS (+VE/-VE) S-MET ) 0. 0. 0. 0. 13. 29 41. 48.	N= .0033 LOAD(+V) 15/ 15/ 21/ 21/ 21/ 21/ 25/	 
REQD S MAX/MI BASIC/ EQUIRED F ECTION MM ) 0. 362. 723. 1085. 1447. 1808. 2170. 2532.	TEEL= 721. N/ACTUAL BAR (REQD. DEVELO REINF. STEEL (SQ. M 1877./ 1358./ 906./ 681./ 480./ 310./ 207./ 158./	<pre>MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : L(+VE/-VE) M ) 0. 0. 0. 170. 386. 545. 636. 647.</pre>	033, ROWMX= 886./ 37 = 177./ MOMENTS (KN: 133./ 98./ 67./ 51./ 36./ 24./ 16./ 12./	= .0194 ROWM ./ 148. MMS 359. MMS (+VE/-VE) S-MET ) 0. 0. 0. 0. 13. 29. 41. 48. 49.	N= .0033 LOAD(+V) 15/ 15/ 21/ 21/ 21/ 21/ 25/ 25/	 
REQD S MAX/MI BASIC/ EQUIRED F ECTION MM ) 0. 362. 723. 1085. 1447. 1808. 2170. 2532. 2893.	TEEL= 721. N/ACTUAL BAR (REQD. DEVELO REINF. STEEL (SQ. M 1877./ 1358./ 906./ 681./ 480./ 310./ 207./ 158./ 150./	<pre>MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : </pre>	033, ROWMX= 886./ 37 = 177./ MOMENTS (KN: 133./ 98./ 67./ 51./ 36./ 24./ 16./ 12./ 11./	= .0194 ROWM ./ 148. MMS 359. MMS (+VE/-VE) S-MET ) 0. 0. 0. 0. 13. 29 41. 48. 49. 47.	N= .0033 LOAD(+V) 15/ 15/ 21/ 21/ 21/ 21/ 25/ 25/ 25/	 
REQD S MAX/MI BASIC/ EQUIRED F ECTION MM ) 0. 362. 723. 1085. 1447. 1808. 2170. 2532. 2893. 3255.	TEEL= 721. N/ACTUAL BAR (REQD. DEVELO REINF. STEEL (SQ. M 1877./ 1358./ 906./ 681./ 480./ 310./ 207./ 158./ 150./ 188./	<pre>MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : L(+VE/-VE) M) 0. 0. 0. 170. 386. 545. 636. 647. 627. 546.</pre>	033, ROWMX- 886./ 37 = 177./ MOMENTS (KN: 133./ 98./ 67./ 51./ 36./ 24./ 16./ 12./ 11./ 14./	= .0194 ROWM ./ 148. MMS 359. MMS (+VE/-VE) S-MET ) 0. 0. 0. 0. 13. 29. 41. 48. 49. 47. 41.	N= .0033 LOAD(+V) 15/ 15/ 21/ 21/ 21/ 21/ 25/ 25/ 25/ 22/	     -   -   -   -   -   -   -   -   -
REQD S MAX/MI BASIC/ EQUIRED F SECTION (MM) 0. 362. 723. 1085. 1447. 1808. 2170. 2532. 2893.	TEEL= 721. N/ACTUAL BAR (REQD. DEVELO REINF. STEEL (SQ. M 1877./ 1358./ 906./ 681./ 480./ 310./ 207./ 158./ 150./	<pre>MM2, ROW= .0 SPACING= PPMENT LENGTH SUMMARY : </pre>	033, ROWMX= 886./ 37 = 177./ MOMENTS (KN: 133./ 98./ 67./ 51./ 36./ 24./ 16./ 12./ 11./	= .0194 ROWM ./ 148. MMS 359. MMS (+VE/-VE) S-MET ) 0. 0. 0. 0. 13. 29 41. 48. 49. 47.	N= .0033 LOAD(+V) 15/ 15/ 21/ 21/ 21/ 21/ 25/ 25/ 25/	 

BEAMNO. 4 DESIGN RESULTS-SHEAR

 AT START SUPPORT - Vu=
 93.88 KNS
 Vc=
 174.04 KNS
 Vs=
 .00 KNS

 PROVIDE 12 MM BARS AT 105. MM
 C/C FOR
 904. MM

 AT END
 SUPPORT - Vu=
 118.49 KNS
 Vc=
 174.04 KNS
 Vs=
 .00 KNS

 PROVIDE 12 MM BARS AT 105. MM
 C/C FOR
 904. MM

 PROVIDE 12 MM BARS AT 105. MM
 C/C FOR
 904. MM

1J	4339X 999X 299		5J
6No20cHc788.2 H0.TO.4340	.TO 4340	10*12c/	
6#20	0000000 7#12 000000	   000000   7#12   000000	

evel H		AIA. 2C -	25. MPA, S FROM (MM)	TO (MM)	ANCHOR STA END
1	88. 3 -	- 20MM	0.	3122.	YES NO
REQD S MAX/MI	TEEL= 931.M N/ACTUAL BAR	MM2, ROW= . SPACING=	8 KN-MET AT 0057, ROWMX= 878./ 45./ H = 493./	.0194 ROWM 439. MMS	N= .0033
2	166. 7	- 12MM	0.	4340.	YES YES
REQD S MAX/MI BASIC/	TEEL= 775.1 N/ACTUAL BAR REQD. DEVELO	MM2, ROW= SPACING= PMENT LENGT	3 KN-MET AT 0047, ROWMX= 886./ 37./ 'H = 177./	.0194 ROWM 148. MMS	N= .0033
	EINF. STEEL ( REINF STEE) (SQ. M	L(+VE/-VE)	Moments(+v (KNS-1	-	LOAD (+VE/-VE
0.	972./	259.	54./	15.	20/ 25
362.	817./	245.	46./	15.	20/ 25
723.	664./	232.	37./	13.	20/ 25
1085.	514./	218.	29./	13.	20/ 25
1447. 1808.	368./	204. 191.	21./	12.	20/ 25
2170.	224./ 83./	191.	13./ 5./	11. 10.	20/ 25 20/ 22
2532.	8./	169	0./	10.	27/ 22
2893.	0./	242.	0./	14.	0/ 21
3255.	0./	373.	0./	21.	0/ 26
3617. 3978.	0./ 0./	519. 668.	0./	30. 38.	0/ 26 0/ 26
4340.	0./	821.	0./	46.	0/ 26
AT START	SUPPORT - Vu ST SUPPORT - Vu	= 22.56 K IRRUPS ARE = 22.56 K	GNRESU NSVc= 132. NOT REQUIRED. NSVc= 132. NOT REQUIRED.	32 KNS VS	= .00 KNS
2J		4339	999x 249		10
	8. 0.TO 31	22			
000  #12	0000	         7#12	000000	       7#12	0000000

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EN - 85	0. MM FY -	414. FC -	25. MPA, S	SIZE - 1000.	X 325.	MMS
		R INFO	FROM (MM)	TO (MM)	ANC STA	HOR
	(003)		(PH4)	(141)	JIA	Latit
1	88 4	- 20MM	0.	850.	YES	
	AT DOG MOMEN	T≓ 106.94	 8N_MET AT	омм г	LOAD 13	1
REOD S	TEEL = 1254.	MM2, ROW= .00	052, ROWMX⇒	.0194 ROWMN	i≕ .0033	
MAX/MI	N/ACTUAL BAR	SPACING=	878./ 45./	293. MMS		1 1 1
BASIC/	REQD. DEVELO	PMENT LENGTH	= 493./	597. MMS	n de la construcción La construcción de la construcción La construcción de la construcción	I
						I
2	241. 8	- 12MM	0.	850.	YES	YES
CRITIC	AL NEG MOMEN	T= 74.87	KN-MET. AT	850.MM/ I	LOAD 21	
		MM2, ROW= .0				
		SPACING=				1
BASIC/	REQD. DEVELO	PMENT LENGTH	= 177./	359. MMS		
(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,		an an an an an		and an international states of the		l gi ge
1. 1. 1. 1. 1. 1. 1.	ふうち ひょうち おうしち ひんち					
EQUIRED R	EINF. STEEL	SUMMARY :				
ECTION	REINF STEE	SUMMARY : :L(+VE/-VE) IM )	MOMENTS (- (KNS-		LOAD (+VE	:/-VE)
ECTION MM )	REINF STEE (SQ. M	:L(+VE/-VE) M)	(KNS-	-MET )		
ECTION MM ) 0.	REINF STEE (SQ. M 1304./	:L(+VE/-VE) M) 8.	(KNS- 107./	-MET ) 1.	13/	26
ECTION MM ) 0. 71.	REINF STEE (SQ. M 1304./ 1177./	L(+VE/-VE) M) 8. 58.	(KNS- 107./ 97./	-MET ) 1. 5.	13/ 13/	26 26
ECTION MM ) 0.	REINF STEE (SQ. M 1304./	:L(+VE/-VE) M) 8.	(KNS- 107./	-MET ) 1.	13/ 13/ 13/ 13/	26 26 26
ECTION MM ) 0. 71. 142.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./	<pre>EL(+VE/-VE) M) 8. 58. 109. 160. 212.</pre>	(KNS- 107./ 97./ 87./ 77./ 67./	-MET ) 1. 5. 9. 14. 18.	13/ 13/ 13/ 13/ 13/ 13/	26 26 26 26 26 26
ECTION MM ) 71. 142. 212. 283. 354.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./	<pre>EL (+VE/-VE) M ) 8. 58. 109. 160. 212. 265.</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./	-MET ) 1. 5. 9. 14. 18. 23.	13/ 13/ 13/ 13/ 13/ 13/ 13/	26 26 26 26 26 26 26
ECTION MM ) 71. 142. 212. 283. 354. 425.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./	<pre>EL (+VE/-VE) M ) 8. 58. 109. 160. 212. 265. 346.</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./	-MET ) 1. 5. 9. 14. 18. 23. 30.	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/	26 26 26 26 26 26 26 21
ECTION MM ) 71. 142. 212. 283. 354. 425. 496.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./	<pre>SL(+VE/-VE) M) M) 8. 58. 109. 160. 212. 265. 346. 434.</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./	-MET ) 1. 5. 9. 14. 18. 23. 30. 37.	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/	26 26 26 26 26 26 21 21
ECTION MM ) 71. 142. 212. 283. 354. 425.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./	<pre>EL (+VE/-VE) M ) 8. 58. 109. 160. 212. 265. 346.</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./	-MET ) 1. 5. 9. 14. 18. 23. 30.	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/	26 26 26 26 26 26 26 21 21 21
ECTION MM ) 71. 142. 212. 283. 354. 425. 496. 567.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./	<pre>SL(+VE/-VE) M) M) 8. 58. 109. 160. 212. 265. 346. 434. 524.</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44.	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/	26 26 26 26 26 26 21 21 21 21 21
ECTION MM ) 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./ 343./ 298./ 254./	<pre>SL(+VE/-VE) M) M) 8. 58. 109. 160. 212. 265. 346. 434. 524. 615. 707. 801.</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67.	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/	26 26 26 26 26 21 21 21 21 21 21 21
CTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./ 343./ 298./ 254./	<pre>SL(+VE/-VE) M) M) 8. 58. 109. 160. 212. 265. 346. 434. 524. 615. 707.</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67.	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/	26 26 26 26 26 21 21 21 21 21 21 21
ECTION MM ) 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./ 343./ 298./ 254./	<pre>SL(+VE/-VE) M) M) 8. 58. 109. 160. 212. 265. 346. 434. 524. 615. 707. 801.</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67.	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/	26 26 26 26 26 21 21 21 21 21 21 21
ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 3680./ 557./ 387./ 343./ 298./ 254./ 208./	<pre>SL(+VE/-VE) M) M) 8. 58. 109. 160. 212. 265. 346. 434. 524. 615. 707. 801.</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./ 18./	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67. 75.	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/ 27/ 27/	26 26 26 26 26 21 21 21 21 21 21 21
ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850.	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 3680./ 557./ 387./ 343./ 298./ 254./ 208./	LL (+VE/-VE) M ) 8. 58. 109. 160. 212. 265. 346. 434. 524. 615. 707. 801. 897.	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./ 18./	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67. 75.	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/ 27/ 27/	26 26 26 26 26 21 21 21 21 21 21 21
ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850. B 1	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./ 343./ 298./ 208./ 208./ E A M N O.	<pre>SL (+VE/-VE) M ) 8. 58. 109. 160. 212. 265. 346. 434. 524. 615. 707. 801. 897. 8 D E S I</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./ 18./ G N R E S	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67. 75. U L T S - S	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/ 27/ 27/	26 26 26 21 21 21 21 21 21 21
ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850. B 1	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./ 343./ 298./ 254./ 208./ E A M N O. SUPPORT - VM	<pre>LL(+VE/-VE) M) 8. 58. 109. 160. 212. 265. 346. 434. 524. 615. 707. 801. 897. 8 D E S I u= 141.02 KN</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./ 18./ GNRES	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67. 75. U L T S - S U L T S - S	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/	26 26 26 21 21 21 21 21 21 21 21 21 21 21 21
ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850. B I AT START	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./ 343./ 298./ 254./ 208./ E A M N O. SUPPORT - VI PI	<pre>SL (+VE/-VE) M) 8. 58. 109. 160. 212. 265. 346. 434. 524. 615. 707. 801. 897. 8 D E S I u= 141.02 KN ROVIDE 12 MM</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./ 18./ G N R E S NS VC= 194 BARS AT 117	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67. 75. U L T S - S .80 KNS VS . MM C/C F	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27	26 26 26 21 21 21 21 21 21 21 21 21 21 21 21 21
ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850. B I AT START	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./ 343./ 298./ 254./ 208./ E A M N O. SUPPORT - VI PH	<pre>SL (+VE/-VE) M) 8. 58. 109. 160. 212. 265. 346. 434. 524. 615. 707. 801. 897. 8 D E S I u= 141.02 KN ROVIDE 12 MM u= 144.81 KN</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./ 18./ CN RES VC= 194 BARS AT 117	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67. 75. U L T S - S .80 KNS VS MM C/C F .80 KNS VS	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27	26 26 26 21 21 21 21 21 21 21 21 21 21 21 21 21
ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850. B I AT START	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./ 343./ 298./ 254./ 208./ E A M N O. SUPPORT - VM PI SUPPORT - VM	<pre>SL (+VE/-VE) M) SL (+VE/-VE) M) SL (+VE/-VE) M) SL (+VE/-VE) M) SL (+VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE) SL (+VE/-VE) SL (+VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE/-VE)</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./ 18./ G N R E S IS VC= 194 BARS AT 117	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67. 75. U L T S - S .80 KNS VS MM C/C F .80 KNS VS	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27	26 26 26 21 21 21 21 21 21 21 21 21 21 21 21 21
ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850. B I AT START	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./ 343./ 298./ 254./ 208./ E A M N O. SUPPORT - VM PI SUPPORT - VM	<pre>L (+VE/-VE) M ) 8. 58. 109. 160. 212. 265. 346. 434. 524. 615. 707. 801. 897. 8 D E S I u= 141.02 KN ROVIDE 12 MM u= 144.81 KN ROVIDE 12 MM</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./ 18./ G N R E S IS VC= 194 BARS AT 117	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67. 75. U L T S - S .80 KNS VS MM C/C F .80 KNS VS	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27	26 26 26 21 21 21 21 21 21 21 21 21 21 21 21 21
ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850. B I AT START AT END	REINF STEE (SQ. M 1304./ 1177./ 1052./ 927./ 803./ 680./ 557./ 436./ 387./ 343./ 298./ 254./ 208./ E A M N O. SUPPORT - VM PI SUPPORT - VM	<pre>SL (+VE/-VE) M) SL (+VE/-VE) M) SL (+VE/-VE) M) SL (+VE/-VE) M) SL (+VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE) SL (+VE/-VE) SL (+VE/-VE) SL (+VE/-VE/-VE) SL (+VE/-VE/-VE)</pre>	(KNS- 107./ 97./ 87./ 77./ 67./ 57./ 47./ 37./ 33./ 29./ 26./ 22./ 18./ G N R E S IS VC= 194 BARS AT 117	-MET ) 1. 5. 9. 14. 18. 23. 30. 37. 44. 52. 60. 67. 75. U L T S - S .80 KNS VS MM C/C F .80 KNS VS	13/ 13/ 13/ 13/ 13/ 13/ 13/ 13/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27/ 27	26 26 26 21 21 21 21 21 21 21 21 21 21 21 21 21

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BEAM NO. 9 DESIGN RESULTS - FLEXURE

LEN - 850. MM	FY - 414. FC -	25. MPA,	SIZE - 1000.	X 325.	MMS
LEVEL HEIGHT (MM)	BAR INFO	FROM (MM)	то (MM)	ANC STA	
1 86.	4 - 16MM	0.	850.	YES	YES
REQD STEEL=   MAX/MIN/ACTU	MOMENT= 17.90 804.MM2, ROW= 0 AL BAR SPACING= DEVELOPMENT LENGTH	033, ROWMX= 882./ 41.	.0194 ROWMN / 294. MMS	OAD 27 I= .0033	     
2 239.	6 - 16MM	0.	850.	YES	I YES

CRITICAL NEG MOMENT= 101.27 KN-MET AT 850.MM, LOAD 21 | REQD STEEL= 1184.MM2, ROW= .0049, ROWMX= .0194 ROWMN= .0033 | MAX/MIN/ACTUAL BAR SPACING= 882./ 41./ 176.MMS BASIC/REQD. DEVELOPMENT LENGTH = 316./ 478.MMS

REQUIRED REINF. STEEL SUMMARY :

1

SECTION	REINF STEEL (	+VE/-VE)	MOMENTS (+V	E/-VE)	LOAD (+VE/-VE
(MM)	(SQ. MM	)	(KNS-M	IET )	
		이 전 사람은 가슴을			
0.	208./	897.	18./	75.	27/ 21
71.	188./	921.	16./	77.	27/ 21
142.	167 /	945.	14./	79.	27/ 21
212.	145./	971.	12./	81.	27/ 21
283.	123./	997.	11./	83.	27/ 21
354.	100./	1023.	9./	85.	27/ 21
425.	77./	1051.	7./	87.	27/ 21
496.	53./	1079.	5./	89.	27/ 21
567.	29./	1108.	2./	92.	27/ 21
637.	4./	1138.	0./	94.	27/ 21
708.	0./	1168.	0./	96.	0/ 21
779.	0./	1199.	0./	99.	0/ 21
850.	0./	1231.	0./	101.	0/ 21

BEAMNO. 9 DESIGNRESULTS-SHEAR

AT START SUPPORT -	Vu= 66.60 KNS	Vc= 194.80 KNS Vs=	.00 KNS
옷을 가지 않는 것 같은 것을 가지?	STIRRUPS ARE NOT	REQUIRED.	
AT END SUPPORT -	Vu= 70.39 KNS	Vc= 194.80 KNS Vs=	.00 KNS
	STIRRUPS ARE NOT	REQUIRED.	

6J	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	849X 999X	324		7J
4No16 H 286. 0.TO	850				
000000 6#16	       1 6#1	000000		     000000	
0000		0000		0000	

#### BEAMNO. 10 DESIGN RESULTS - FLEXURE

LEN - LEVEL	850. MM HEIGHT (MM)			- 25. FROM (MM)		SIZE - TO (MM)		325. ANC STA	HOR
1	239.	6 -	16MM	0.		850	).	YES	YES
REQ   MAX	TICAL NEO D STEEL= /MIN/ACTU IC/REQD.	1184.M JAL BAR	M2, ROW= SPACING=	.0049, 882./	ROWMX= 41	= .0194 ./ 176	ROWMN= MMS		

### REQUIRED REINF. STEEL SUMMARY :

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SECTI ( MM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STEEL(+VE/-V . MM )		S(+VE/-VE) NS-MET )	LOAD ( +VE	:/~VE)
0	. 0	./ 1231.	0./	101.	0/	21
71	. 0	./ 1190.	0 /	98.	0/	21
142	. 0	./ 1150.	0./	95.	0/	21
212	. 0	./ 1110.	0./	92.	0/	21
283	. 0	./ 1072.	0./	89.	0/	21
354	. 0	./ 1034.	0./	86.	0/	21
425	. 0	./ 997.	0./	83.	61 - <b>0/</b> -	21
496		./ 961.	0./	80.	0/	21
567	. 0	./ 925.	0./	77.	0/	21
637	. 0	./ 895.	0./	75.	0/	14
708	. 0	./ 891.	0./	74.	0/	14
779		./ 888.	0./	74.	0/	14
850	. 0	./ 886.	0./	74.	0/ 1	14
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#### BEAM NO. 10 DESIGN RESULTS - SHEAR

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•		11 A. 1					REQUIRED.		y ta be and the		
	AΤ	END	SUPPORT	-	Vu= 39	.24 KNS	Vc= 194.80	) KNS	Vs=	.00	KNS
		$(x_1,\ldots,x_n)$	11. A.		STIRRUPS	ARE NOT	REQUIRED.	1. A.		egel d'are	

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BE	AM NO. 1	1 DESI	GN RESU	LTS-	FLEXURE	
EN - 85	0. MM FY -	414. FC -	25. MPA, S	IZE - 1000	. X 325.	MMS
EVEL H	EIGHT BAR	INFO	FROM	TO	ANC	CHOR
	(MM)	가 가 있는 것은 가 가 가 가 같은 것 같은 것 같이 있는 것 같은 것 같은 것 같은 것 같이 있는 것	(MM)	(MM)	STA	END
1	86. 4 -	16MM	0.	850.	YES	YES
 077770	AL POS MOMENT	 = 35 9	9 KN-MET AT	950 MM	LOAD 20	-
REOD S	TEEL= 804.M	M2, ROW= .	0033, ROWMX=	.0194 ROWM		
MAX/MI	N/ACTUAL BAR S REQD. DEVELOPS	SPACING=	882./ 41./	294. MMS		
	and the second second second	g da manana a sa s	and the second second second		and the second second	
2	241. 8 -	12MM	0.	850	YES	-   YES
فالتا والمرغر والع		12MM	0.	850.		-  YES -
CRITIC REQD S	AL NEG MOMENT TEEL= 853.M	= 74.0 M2, ROW= .	1 KN-MET AT 0035, ROWMX=	0.MM, .0194 ROWM	LOAD 14	-  YES   
CRITIC REQD S MAX/MI	AL NEG MOMENT	= 74.0 M2, ROW= . SPACING=	1 KN-MET AT 0035, ROWMX= 886./ 37./	0.MM, .0194 ROWM	LOAD 14	-   YES 
CRITIC REQD S MAX/MI	AL NEG MOMENT TEEL= 853.M N/ACTUAL BAR	= 74.0 M2, ROW= . SPACING=	1 KN-MET AT 0035, ROWMX= 886./ 37./	0.MM, .0194 ROWM 127. MMS	LOAD 14	-   YES -     
CRITIC REQD S MAX/MI BASIC/	AL NEG MOMENT TEEL= 853.M N/ACTUAL BAR	= 74.0 M2, ROW= SPACING= MENT LENGT	1 KN-MET AT 0035, ROWMX= 886./ 37./	0.MM, .0194 ROWM 127. MMS	LOAD 14	YES
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION	AL NEG MOMENT TEEL= 853.M N/ACTUAL BAR S REQD. DEVELOPN EINF. STEEL SU REINF STEEL	= 74.0 M2, ROW= SPACING= MENT LENGT UMMARY : (+VE/-VE)	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+	0.MM, .0194 ROWM 127. MMS 359. MMS 	LOAD 14 N= .0033	
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM )	AL NEG MOMENT TEEL= 853.M N/ACTUAL BAR S REQD. DEVELOPN EINF. STEEL SI REINF STEEL (SQ. MM	= 74.0 M2, ROW= . SPACING= MENT LENGT UMMARY : (+VE/-VE) )	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS-	0.MM, .0194 ROWM 127. MMS 359. MMS 	LOAD 14 N= .0033 LOAD (+VE	- - - - - - - - - - - - - - - - - - -
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71.	AL NEG MOMENT TEEL= 853.M N/ACTUAL BAR S REQD. DEVELOPN EINF. STEEL SI REINF STEEL (SQ. MM 0./ 0./	= 74.0 M2, ROW= . SPACING= MENT LENGT UMMARY : (+VE/-VE) ) 886. 817.	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./	0.MM, .0194 ROWM 127. MMS 359. MMS VE/-VE) MET ) 74. 68.	LOAD 14 N= .0033 LOAD(+VE 0/ 0/	- - - - - - - - - - - - - - - - - - -
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0.	AL NEG MOMENT TEEL= 853.M N/ACTUAL BAR S REQD. DEVELOPN EINF. STEEL SU REINF STEEL (SQ. MM 0./	= 74.0 M2, ROW= . SPACING= MENT LENGT UMMARY : (+VE/-VE) ) 886.	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./	0.MM, .0194 ROWM 127. MMS 359. MMS 	LOAD 14 N= .0033 LOAD(+VE	2/-VE) 14 14 13
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283.	AL NEG MOMENT TEEL= 853.M N/ACTUAL BAR S REQD. DEVELOPM EINF. STEEL SU REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./	= 74.0 M2, ROW= . SPACING= MENT LENGT UMMARY : (+VE/-VE) ) 886. 817. 751. 693. 636.	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./	0.MM, .0194 ROWM 127. MMS 359. MMS VE/-VE) MET ) 74. 68. 63. 58. 54.	LOAD 14 N= .0033 LOAD(+VE 0/ 0/ 0/ 0/ 0/	2/-VE) 14 13 13 13
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283. 354.	AL NEG MOMENT TEEL= 853.M N/ACTUAL BAR S REQD. DEVELOPM EINF. STEEL SU REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./	<pre>74.0 M2, ROW= . SPACING= MENT LENGT JMMARY : (+VE/-VE) ) 886. 817. 751. 693. 636. 580.</pre>	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	0.MM, .0194 ROWM 127. MMS 359. MMS VE/-VE) MET ) 74. 68. 63. 58. 54. 49.	LOAD 14 N= .0033 LOAD(+VE 0/ 0/ 0/ 0/ 0/ 0/ 0/	2/-VE) 14 13 13 13
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283.	AL NEG MOMENT TEEL= 853.M N/ACTUAL BAR S REQD. DEVELOPM EINF. STEEL SU REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./	= 74.0 M2, ROW= . SPACING= MENT LENGT UMMARY : (+VE/-VE) ) 886. 817. 751. 693. 636.	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./	0.MM, .0194 ROWM 127. MMS 359. MMS VE/-VE) MET ) 74. 68. 63. 58. 54.	LOAD 14 N= .0033 LOAD(+VE 0/ 0/ 0/ 0/ 0/	2/-VE) 14 13 13 13 13
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567.	AL NEG MOMENT TEEL= 853.M N/ACTUAL BAR REQD. DEVELOPN EINF. STEEL SU REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 1./ 29./ 95./ 161./	<pre>74.0 M2, ROW= . SPACING= MENT LENGT UMMARY : (+VE/-VE) ) 886. 817. 751. 693. 636. 580. 525. 471. 417.</pre>	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	0.MM, .0194 ROWM 127. MMS 359. MMS VE/-VE) MET ) 74. 68. 63. 58. 54. 49. 45. 40. 36.	LOAD 14 N= .0033 LOAD(+VE 0/ 0/ 0/ 0/ 0/ 0/ 0/ 20/ 20/ 20/ 20/	-  -
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637.	AL NEG MOMENT- TEEL= 853.M N/ACTUAL BAR REQD. DEVELOPN EINF. STEEL SU REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 10./ 29./ 95./ 161./ 226./	<pre>74.0 M2, ROW= . SPACING= MENT LENGT UMMARY : (+VE/-VE) ) 886. 817. 751. 693. 636. 580. 525. 471. 417. 365.</pre>	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	0.MM, .0194 ROWM 127. MMS 359. MMS VE/-VE) MET ) 74. 68. 63. 58. 54. 49. 45. 40. 36. 31.	LOAD 14 N= .0033 LOAD(+VE 0/ 0/ 0/ 0/ 0/ 0/ 0/ 20/ 20/ 20/ 20/ 20	-  -  -  -  14 14 13 13 13 13 13 13 13 13 13
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708.	AL NEG MOMENT- TEEL= 853.M N/ACTUAL BAR REQD. DEVELOPN EINF. STEEL SU REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 10./ 29./ 95./ 161./ 226./ 292./	<pre>74.0 M2, ROW= . SPACING= MENT LENGT UMMARY : (+VE/-VE) ) 886. 817. 751. 693. 636. 580. 525. 471. 417. 365. 313.</pre>	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	0.MM, .0194 ROWM 127.MMS 359.MMS VE/-VE) MET ) 74. 68. 63. 58. 54. 49. 45. 40. 36. 31. 27.	LOAD 14 N= .0033 LOAD (+VE 0/ 0/ 0/ 0/ 0/ 0/ 0/ 20/ 20/ 20/ 20/ 20	-  -
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637.	AL NEG MOMENT- TEEL= 853.M N/ACTUAL BAR REQD. DEVELOPN EINF. STEEL SU REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 10./ 29./ 95./ 161./ 226./	<pre>74.0 M2, ROW= . SPACING= MENT LENGT UMMARY : (+VE/-VE) ) 886. 817. 751. 693. 636. 580. 525. 471. 417. 365.</pre>	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	0.MM, .0194 ROWM 127. MMS 359. MMS VE/-VE) MET ) 74. 68. 63. 58. 54. 49. 45. 40. 36. 31.	LOAD 14 N= .0033 LOAD(+VE 0/ 0/ 0/ 0/ 0/ 0/ 0/ 20/ 20/ 20/ 20/ 20	-  -
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850.	AL NEG MOMENT- TEEL= 853.M N/ACTUAL BAR REQD. DEVELOPN EINF. STEEL SI REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 29./ 95./ 161./ 226./ 292./ 357./ 422./	<pre>74.0 M2, ROW= . SPACING= MENT LENGT UMMARY : (+VE/-VE) ) 886. 817. 751. 693. 636. 580. 525. 471. 417. 365. 313. 262. 212.</pre>	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	0.MM, .0194 ROWM 127. MMS 359. MMS VE/-VE) MET ) 74. 68. 63. 88. 54. 49. 45. 40. 36. 31. 27. 22. 18.	LOAD 14 N= .0033 LOAD(+VE 0/ 0/ 0/ 0/ 0/ 0/ 20/ 20/ 20/ 20/ 20/ 2	-  -
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850. B E	AL NEG MOMENT- TEEL= 853.M N/ACTUAL BAR S REQD. DEVELOPN EINF. STEEL SU REINF STEEL SU (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 29./ 95./ 161./ 226./ 292./ 357./ 422./ A M N O. 1:	<pre>74.0 M2, ROW= . SPACING= MENT LENGT </pre>	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	0.MM, .0194 ROWM 127. MMS 359. MMS 	LOAD 14 N= .0033 LOAD(+VE 0/ 0/ 0/ 0/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	-/-VE) 14 13 13 13 13 13 13 13 13 13 13 13 13 13
CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850. B E	AL NEG MOMENT- TEEL= 853.M N/ACTUAL BAR REQD. DEVELOPN EINF. STEEL SI REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 29./ 95./ 161./ 226./ 292./ 357./ 422./ A M N O. 1 SUPPORT - Vu=	<pre>74.0 M2, ROW= . SPACING= MENT LENGT </pre>	1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	0.MM, .0194 ROWM 127. MMS 359. MMS VE/-VE) MET ) 74. 68. 63. 88. 54. 49. 45. 40. 36. 31. 27. 22. 18. L T S - SI 80 KNS VS	LOAD 14 N= .0033 LOAD (+VE 0/ 0/ 0/ 0/ 0/ 20/ 20/ 20/ 20/ 20/ 20/	- - - - - - - - - - - - - - - - - - -
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CRITIC REQD S MAX/MI BASIC/ EQUIRED R ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637. 708. 779. 850. B E AT START	AL NEG MOMENT- TEEL= 853.M N/ACTUAL BAR REQD. DEVELOPN EINF. STEEL SU REINF STEEL SU 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	<pre>74.0 M2, ROW= . SPACING= MENT LENGT </pre>	<pre>1 KN-MET AT 0035, ROWMX= 886./ 37./ H = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./</pre>	0.MM, .0194 ROWM 127. MMS 359. MMS VE/-VE) MET ) 74. 68. 63. 58. 54. 49. 45. 40. 36. 31. 27. 22. 18. L T S - SI 80 KNS VS <sup>2</sup> MM C/C FC 80 KNS VS <sup>2</sup>	LOAD 14 N= .0033 LOAD (+VE 0/ 0/ 0/ 0/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	

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CRITIC	CAL POS MOMENT	= 168.	73 KN-MET AT	850.MM, I	JOAD 21	(   
CRITIC   CRITIC   REQD S   MAX/MI	CAL POS MOMENT STEEL= 2047.M N/ACTUAL BAR	= 168. M2, ROW= SPACING=	73 KN-MET AT .0085, ROWMX= .886./ 37./	850.MM, I .0194 ROWMN / 49. MMS	JOAD 21	(   
CRITIC   CRITIC   REQD S   MAX/MI	CAL POS MOMENT STEEL= 2047.M N/ACTUAL BAR	= 168. M2, ROW= SPACING=	73 KN-MET AT .0085, ROWMX=	850.MM, I .0194 ROWMN / 49. MMS	JOAD 21	(   
CRITIC   CRITIC   REQD S   MAX/MI	CAL POS MOMENT STEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP	= 168. M2, ROW= SPACING= MENT LENG	73 KN-MET AT .0085, ROWMX= .886./ 37./ TH = 177./	850.MM, I .0194 ROWMM 49.MMS 342.MMS	JOAD 21	(   
CRITIC   CRITIC   REQD S   MAX/MI	CAL POS MOMENT STEEL= 2047.M N/ACTUAL BAR	= 168. M2, ROW= SPACING= MENT LENG	73 KN-MET AT .0085, ROWMX= .886./ 37./ TH = 177./	850.MM, I .0194 ROWMN / 49. MMS	JOAD 21	
CRITIC REQD S MAX/MI BASIC/ 	CAL POS MOMENT STEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 -	= 168. M2, ROW= SPACING= MENT LENG <sup>9</sup> 16MM	73 KN-MET AT .0085, ROWMX= .886./ 37./ TH = 177./	850.MM, I .0194 ROWMM 49.MMS 342.MMS 620.	.OAD 21 l= .0033 YES	l NO
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S	CAL POS MOMENT TEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 CAL NEG MOMENT STEEL= 804.M	= 168. M2, ROW= SPACING= MENT LENG 16MM = 18. M2, ROW=	73 KN-MET AT .0085, ROWMX= .886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX=	850.MM, I .0194 ROWMM 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMM	.OAD 21 I= .0033 YES .OAD 13	       
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S MAX/MI	CAL POS MOMENT TEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 - CAL NEG MOMENT STEEL= 804.M IN/ACTUAL BAR	= 168. M2, ROW= SPACING= MENT LENG 16MM = 18. M2, ROW= SPACING=	73 KN-MET AT .0085, ROWMX= 886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX= 882./ 41./	850.MM, I .0194 ROWMM 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMM 294.MMS	.OAD 21 I= .0033 YES .OAD 13	       
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S MAX/MI	CAL POS MOMENT TEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 - CAL NEG MOMENT STEEL= 804.M IN/ACTUAL BAR	= 168. M2, ROW= SPACING= MENT LENG 16MM = 18. M2, ROW= SPACING=	73 KN-MET AT .0085, ROWMX= .886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX=	850.MM, I .0194 ROWMM 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMM 294.MMS	.OAD 21 I= .0033 YES .OAD 13	       
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S MAX/MI BASIC/	CAL POS MOMENT STEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 - CAL NEG MOMENT STEEL= 804.M (N/ACTUAL BAR (REQD. DEVELOP	= 168. M2, ROW= SPACING= MENT LENG 16MM = 18. M2, ROW= SPACING= MENT LENG	73 KN-MET AT .0085, ROWMX= 886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX= 882./ 41./	850.MM, I .0194 ROWMM 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMM 294.MMS	.OAD 21 I= .0033 YES .OAD 13	       
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S MAX/MI BASIC/ REQUIRED F	CAL POS MOMENT STEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 - 239. 4 - CAL NEG MOMENT STEEL= 804.M (N/ACTUAL BAR (REQD. DEVELOP REINF. STEEL S	= 168. M2, ROW= SPACING= MENT LENG 16MM = 18. M2, ROW= SPACING= MENT LENG	73 KN-MET AT .0085, ROWMX= 886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX= 882./ 41., TH = 316./	850.MM, I .0194 ROWMN 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMN 294.MMS 478.MMS	OAD 21 I= .0033 YES OAD 13 I= .0033	NO
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S MAX/MI BASIC/ BASIC/ BASIC/ BASIC/ BASIC/ BASIC/	CAL POS MOMENT STEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 CAL NEG MOMENT STEEL= 804.M (N/ACTUAL BAR (REQD. DEVELOP REINF. STEEL S REINF. STEEL S	<pre>= 168. M2, ROW= SPACING= MENT LENG' 16MM = 18. M2, ROW= SPACING= MENT LENG' UMMARY : .(+VE/-VE)</pre>	73 KN-MET AT .0085, ROWMX= 886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX= 882./ 41., TH = 316./ MOMENTS(	850.MM, I .0194 ROWMN 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMN 294.MMS 478.MMS	.OAD 21 I= .0033 YES .OAD 13	NO
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S MAX/MI BASIC/ REQUIRED F	CAL POS MOMENT STEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 - 239. 4 - CAL NEG MOMENT STEEL= 804.M (N/ACTUAL BAR (REQD. DEVELOP REINF. STEEL S	<pre>= 168. M2, ROW= SPACING= MENT LENG' 16MM = 18. M2, ROW= SPACING= MENT LENG' UMMARY : .(+VE/-VE)</pre>	73 KN-MET AT .0085, ROWMX= 886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX= 882./ 41., TH = 316./ MOMENTS(	850.MM, I .0194 ROWMN 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMN 294.MMS 478.MMS	OAD 21 I= .0033 YES OAD 13 I= .0033	NO
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S MAX/MI BASIC/ BASIC/ BASIC/ CRITIC REQUIRED F SECTION (MM) 0.	CAL POS MOMENT TEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 - CAL NEG MOMENT STEEL= 804.M (N/ACTUAL BAR (REQD. DEVELOP REINF. STEEL S REINF. STEEL S REINF STEEL (SQ. MM 422./	<pre>= 168. M2, ROW= SPACING= MENT LENG' 16MM = 18. M2, ROW= SPACING= MENT LENG' MENT LENG' MMMARY : .(+VE/-VE) 1) 212.</pre>	73 KN-MET AT .0085, ROWMX= 886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX= 882./ 41./ TH = 316./ MOMENTS( (KNS- 36./	850.MM, I .0194 ROWMN 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMN 294.MMS 478.MMS 478.MMS	.OAD 21 I= .0033 YES LOAD 13 I= .0033 I= .0033	( NO /-VE)
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQUIRED F SECTION (MM) 0. 71.	CAL POS MOMENT TEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 - CAL NEG MOMENT STEEL= 804.M (N/ACTUAL BAR (REQD. DEVELOP REINF. STEEL S REINF. STEEL S REINF STEEL (SQ. MM 422./ 528./	<pre>= 168. M2, ROW= SPACING= MENT LENG' 16MM = 18. M2, ROW= SPACING= MENT LENG' UMMARY : .(+VE/-VE) i) 212. 124.</pre>	73 KN-MET AT .0085, ROWMX= 886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX= 882./ 41./ TH = 316./ MOMENTS( (KNS- 36./ 45./	850.MM, I .0194 ROWMN 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMN 294.MMS 478.MMS 478.MMS +VE/-VE) -MET ) 18. 11.	.OAD 21 I= .0033 YES LOAD 13 I= .0033	/ / / / / / / / / / / / / / / / / / /
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQUIRED F SECTION (MM) 0. 71. 142.	CAL POS MOMENT TEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 - CAL NEG MOMENT STEEL= 804.M (N/ACTUAL BAR (REQD. DEVELOP REINF. STEEL S REINF. STEEL S REINF STEEL (SQ. MM 422./ 528./ 646./	= 168. M2, ROW= SPACING= MENT LENG' 16MM = 18. M2, ROW= SPACING= MENT LENG' UMMARY : .(+VE/-VE) 1) 212. 124. 38.	73 KN-MET AT .0085, ROWMX= 886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX= 882./ 41./ TH = 316./ MOMENTS( (KNS- 36./ 45./ 54./	850.MM, I .0194 ROWMN 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMN 294.MMS 478.MMS 478.MMS +VE/-VE) -MET ) 18. 11. 3.	LOAD 21 I= .0033 YES LOAD 13 I= .0033 LOAD (+VE 20/ 26/ 21/	/-VE) 13 13 13
CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQD S MAX/MI BASIC/ BASIC/ CRITIC REQUIRED F SECTION (MM) 0. 71.	CAL POS MOMENT TEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 - CAL NEG MOMENT STEEL= 804.M (N/ACTUAL BAR (REQD. DEVELOP REINF. STEEL S REINF. STEEL S REINF STEEL (SQ. MM 422./ 528./	<pre>= 168. M2, ROW= SPACING= MENT LENG' 16MM = 18. M2, ROW= SPACING= MENT LENG' UMMARY : .(+VE/-VE) i) 212. 124.</pre>	73 KN-MET AT .0085, ROWMX= 886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX= 882./ 41./ TH = 316./ MOMENTS( (KNS- 36./ 45./	850.MM, I .0194 ROWMN 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMN 294.MMS 478.MMS 478.MMS +VE/-VE) -MET ) 18. 11.	.OAD 21 I= .0033 YES LOAD 13 I= .0033	/ / / / / / / / / / / / / / / / / / /
CRITIC   REQD S   MAX/MI   BASIC/ 	CAL POS MOMENT TEEL= 2047.M N/ACTUAL BAR (REQD. DEVELOP 239. 4 - CAL NEG MOMENT STEEL= 804.M (N/ACTUAL BAR (REQD. DEVELOP REINF. STEEL S REINF. STEEL S REINF STEEL (SQ. MM 422./ 528./ 646./ 788./ 932./ 1078./	= 168. M2, ROW= SPACING= MENT LENG 16MM = 18. M2, ROW= SPACING= MENT LENG UMMARY : (+VE/-VE) 1) 212. 124. 38. 0. 0. 0.	73 KN-MET AT .0085, ROWMX= 886./ 37./ TH = 177./ 0. 23 KN-MET AT .0033, ROWMX= 882./ 41./ TH = 316./ MOMENTS( (KNS- 36./ 45./ 54./ 66./ 78./ 89./	850.MM, I .0194 ROWMN 49.MMS 342.MMS 620. 0.MM, I .0194 ROWMN 294.MMS 478.MMS +VE/-VE) -MET ) 18. 11. 3. 0. 0. 0. 0.	LOAD 21 I= .0033 YES LOAD 13 I= .0033 LOAD (+VE 20/ 26/ 21/ 21/ 21/ 21/ 21/ 21/ 21/ 21	<pre>//VE) //VE) 13 13 13 13 0 0 0</pre>
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AT END	PRO SUPPORT - Vu=	OVIDE 12 MM = 160.08 k	NS Vc= 194.8 1 BARS AT 117. NS Vc= 194.8 1 BARS AT 117.	MM C/C FO 30 KNS Vs=	DR 850. = .00	MM KNS
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EVEL	HEIGHT BAN (MM)	R INFO	FROM	(MM)	· · · ·	END
EVEL 1 CRITI REQD MAX/M	HEIGHT BAN (MM) 84. 15 CAL POS MOMENT STEEL= 1620.1 IN/ACTUAL BAR	R INFO - 12MM F= 136.0 MM2, ROW= . SPACING=	FROM (MM)	(MM) 840. 0.MM, I 0194 ROWM 63. MMS	STA YES LOAD 21 I= .0033	END YES
EVEL 1 CRITI REQD MAX/M BASIC	HEIGHT BAN (MM) 84. 15 CAL POS MOMENT STEEL= 1620.1 IN/ACTUAL BAR	R INFO - 12MM I= 136.0 MM2, ROW= SPACING= PMENT LENGT	FROM (MM) 0. 0. 01 KN-MET AT 0067, ROWMX= . 886./ 37./	(MM) 840. 0.MM, I 0194 ROWM 63. MMS	STA YES LOAD 21 I= .0033	END YES
EVEL 1 CRITI REQD MAX/M BASIC EQUIRED	HEIGHT BAN (MM) 84. 15 CAL POS MOMEN' STEEL= 1620.1 IN/ACTUAL BAR /REQD. DEVELOR REINF. STEEL S	R INFO - 12MM F= 136.0 MM2, ROW= . SPACING= PMENT LENGT SUMMARY :	FROM (MM) 0. 01 KN-MET AT 0067, ROWMX= 886./ 37./ 2H = 177./	(MM) 840. 0.MM, I 0194 ROWM 63. MMS 343. MMS	STA YES LOAD 21 I= .0033	YES
I CRITI REQD MAX/M BASIC EQUIRED ECTION	HEIGHT BAN (MM) 84. 15 CAL POS MOMEN' STEEL= 1620.1 IN/ACTUAL BAR /REQD. DEVELOR REINF. STEEL S REINF STEEL	R INFO - 12MM F= 136.0 MM2, ROW= . SPACING= PMENT LENGT SUMMARY :	FROM (MM) 0. 01 KN-MET AT 0067, ROWMX= 886./ 37./ 2H = 177./ MOMENTS(+V (KNS-M	(MM) 840. 0.MM, I 0194 ROWM 63. MMS 343. MMS 7E/-VE)	STA YES LOAD 21 I= .0033	YES
I CRITI REQD MAX/M BASIC EQUIRED ECTION MM ) 0.	HEIGHT BAN (MM) 84. 15 CAL POS MOMENT STEEL= 1620.t IN/ACTUAL BAR /REQD. DEVELON REINF. STEEL S REINF. STEEL S (SQ. MI 1687./	R INFO - 12MM F= 136.0 MM2, ROW= SPACING= PMENT LENGT SUMMARY : L(+VE/-VE) M) O.	FROM (MM) 0. 01 KN-MET AT 0067, ROWMX= 886./ 37./ 2H = 177./ MOMENTS(+V (KNS-M 136./	(MM) 840. 0.MM, I 0194 ROWM 63. MMS 343. MMS 343. MMS //E/-VE) MET ) 0.	STA YES LOAD 21 I= .0033 LOAD (+VE 21/	END YES         /-VE) 0
EVEL 1 CRITI REQD MAX/M BASIC EQUIRED ECTION MM ) 0. 70.	HEIGHT BAN (MM) 84. 15 CAL POS MOMENT STEEL= 1620.t IN/ACTUAL BAR /REQD. DEVELON REINF. STEEL S REINF. STEEL S REINF STEEL (SQ. MI 1687./ 1591./	R INFO - 12MM F= 136.0 MM2, ROW= SPACING= PMENT LENGT SUMMARY : L(+VE/-VE) M) 0. 0. 0.	FROM (MM) 0. 01 KN-MET AT 0067, ROWMX= 886./ 37./ 2H = 177./ MOMENTS(+V (KNS-M 136./ 129./	(MM) 840. 0.MM, I 0194 ROWM 63. MMS 343. MMS 343. MMS //E/-VE) MET ) 0. 0. 0.	STA YES LOAD 21 I= .0033 LOAD (+VE 21/ 21/	END YES           /-VE) 0 0
I CRITI REQD MAX/M BASIC EQUIRED ECTION MM ) 0.	HEIGHT BAN (MM) 84. 15 CAL POS MOMENT STEEL= 1620.t IN/ACTUAL BAR /REQD. DEVELON REINF. STEEL S REINF. STEEL S (SQ. MI 1687./	R INFO - 12MM F= 136.0 MM2, ROW= SPACING= PMENT LENGT SUMMARY : L(+VE/-VE) M) O.	FROM (MM) 0. 01 KN-MET AT 0067, ROWMX= 886./ 37./ 2H = 177./ MOMENTS(+V (KNS-M 136./ 129./ 122./	(MM) 840. 0.MM, I 0194 ROWM 63. MMS 343. MMS 343. MMS //E/-VE) MET ) 0. 0. 0. 0.	STA YES LOAD 21 I= .0033 LOAD (+VE 21/ 21/ 21/ 21/	END YES         /-VE) 0
EVEL 1 CRITI REQD MAX/M BASIC EQUIRED ECTION MM ) 0. 70. 140.	HEIGHT BAN (MM) 84. 15 CAL POS MOMENT STEL= 1620.t IN/ACTUAL BAR /REQD. DEVELON REINF. STEEL S REINF. STEEL S REINF STEEL (SQ. MI 1687./ 1591./ 1496./	R INFO - 12MM F= 136.0 MM2, ROW= SPACING= PMENT LENGT SUMMARY : L(+VE/-VE) M) 0. 0. 0. 0.	FROM (MM) 0. 01 KN-MET AT 0067, ROWMX= 886./ 37./ 2H = 177./ MOMENTS(+V (KNS-M 136./ 129./	(MM) 840. 0.MM, I 0194 ROWM 63. MMS 343. MMS 343. MMS //E/-VE) MET ) 0. 0. 0.	STA YES LOAD 21 I= .0033 LOAD (+VE 21/ 21/ 21/ 21/	END YES / / //VE) 0 0
EVEL 1 CRITI REQD MAX/M BASIC EQUIRED ECTION MM ) 0. 70. 140. 210. 280. 350.	HEIGHT BAN (MM) 84. 15 CAL POS MOMENT STEL= 1620.t IN/ACTUAL BAR /REQD. DEVELON REINF. STEEL S REINF. STEEL S REINF STEEL (SQ. MI 1687./ 1591./ 1496./ 1401./ 1307./ 1212./	R INFO - 12MM F= 136.0 MM2, ROW= SPACING= PMENT LENGT SUMMARY : L(+VE/-VE) M) 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	FROM (MM) 0. 01 KN-MET AT 0067, ROWMX= 886./ 37./ 2H = 177./ 2H = 177./ MOMENTS(+V (KNS-M 136./ 129./ 122./ 114./ 107./ 100./	(MM) 840. 0.MM, I 0194 ROWM 63. MMS 343. MMS 343. MMS //E/-VE) MET ) 0. 0. 0. 0. 0. 0.	STA YES LOAD 21 I= .0033 LOAD (+VE 21/ 21/ 21/ 21/ 21/	END YES ///////////////////////////////////
EVEL 1 CRITI REQD MAX/M BASIC EQUIRED ECTION MM ) 0. 70. 140. 210. 280. 350. 420.	HEIGHT BAN (MM) 84. 15 CAL POS MOMENT STEL= 1620.t IN/ACTUAL BAR /REQD. DEVELON REINF. STEEL S REINF. STEEL S (SQ. MM 1687./ 1591./ 1496./ 1401./ 1307./ 1212./ 1118./	R INFO - 12MM F= 136.0 MM2, ROW= SPACING= PMENT LENGT SUMMARY : L(+VE/-VE) M) 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	FROM (MM) 0. 01 KN-MET AT 0067, ROWMX= 886./ 37./ 2H = 177./ 2H = 177./ 2H = 177./ 2H = 177./ 217./ 100./ 92./	(MM) 840. 0.MM, I 0194 ROWMN 63. MMS 343. MMS 343. MMS //E/-VE) MET ) 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	STA YES OAD 21 I= .0033 LOAD(+VE 21/ 21/ 21/ 21/ 21/ 21/ 21/ 21/	END YES           /-VE) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EVEL 1 CRITI REQD MAX/M BASIC EQUIRED ECTION MM ) 0. 70. 140. 210. 280. 350. 420. 490.	HEIGHT BAN (MM) 84. 15 CAL POS MOMENT STEL= 1620.t IN/ACTUAL BAR /REQD. DEVELON REINF. STEEL S REINF STEEL S REINF STEEL S (SQ. MM 1687./ 1591./ 1496./ 1401./ 1307./ 1212./ 1118./ 1024./	R INFO - 12MM F= 136.0 MM2, ROW= SPACING= PMENT LENGT SUMMARY : L(+VE/-VE) M) 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	FROM (MM) 0. 01 KN-MET AT 0067, ROWMX= . 886./ 37./ 2H = 177./ MOMENTS(+V (KNS-M 136./ 129./ 122./ 114./ 107./ 100./ 92./ 85./	(MM) 840. 0.MM, I 0194 ROWMN 63. MMS 343. MMS 343. MMS //E/-VE) MET ) 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	STA YES OAD 21 I= .0033 LOAD(+VE 21/ 21/ 21/ 21/ 21/ 21/ 21/ 21/ 21/ 21/	END YES             /-VE)       /-VE)   0 0 0 0 0 0 0 0 0 0 0 0 0
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CRITICA REQD ST MAX/MIN	AL POS MOMENT FEEL= 804.M	= 47.1 M2, ROW= . SPACING=	9 KN-MET AT	0.MM, LC .0194 ROWMN= 294. MMS	DAD 21	1
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CRITICA REQD ST MAX/MIN BASIC/F 2 CRITICA REQD ST MAX/MIN BASIC/F EQUIRED RE ECTION MM ) 0. 71. 142. 212. 283. 354. 425. 496.	AL POS MOMENT TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP 239. 4 - AL NEG MOMENT TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL S REINF STEEL (SQ. MM 557./ 511./ 464./ 417./ 369./ 321./ 273./ 224./	= 47.1 M2, ROW= . SPACING= MENT LENGT 16MM = 23.0 M2, ROW= . SPACING= MENT LENGT	9 KN-MET AT 0033, ROWMX= 882./ 41./ H = 316./ 0. 25 KN-MET AT 0033, ROWMX= 882./ 41./ H = 316./ MOMENTS(++ (KNS-H 47./ 43./ 39./ 36./ 32./ 27./ 23./ 19./	0.MM, LC 0194 ROWMN- 294. MMS 478. MMS 850. 850.MM, LC 0194 ROWMN- 294. MMS 478. MMS 478. MMS VE/-VE) MET ) 0. 0. 1. 2. 4. 6. 8. 11.	DAD 21 = .0033 YES DAD 13 = .0033 = .0033 LOAD (+VE 21/ 21/ 21/ 21/ 21/ 21/ 21/ 21/	<pre>     // VES     // VE     // VE     // VE     // I     //     // I     //</pre>
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REQD S   MAX/MI   BASIC/ 	TEEL= 804.M N/ACTUAL BAR	M2, ROW= .00 SPACING= 8 MENT LENGTH	KN-MET AT 33, ROWMX= .0 82./ 41./	850.MM, LC )194 ROWMN= 294. MMS	DAD 14	
REQD S   MAX/MI   BASIC/ 	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP 	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE)	KN-MET AT 33, ROWMX= .0 82./ 41./	850.MM, LC )194 ROWMN= 294.MMS 178.MMS 	DAD 14   = .0033   	
REQD S   MAX/MI   BASIC/   REQUIRED R SECTION ( MM ) 0.	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269.	KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS(+VE (KNS-ME 0./	850.MM, LC )194 ROWMN= 294.MMS 178.MMS 278.MMS 278.MMS 278. 23.	DAD 14   = .0033     	
REQD S   MAX/MI   BASIC/   REQUIRED R SECTION ( MM ) 0. 71. 142.	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263.	KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS(+VE (KNS-ME 0./ 0./ 0./ 0./	850.MM, LC )194 ROWMN= 294.MMS 178.MMS (78.MMS) (78.MMS (78.	DAD 14   = .0033     LOAD (+VE/-VE) 0/ 13 0/ 13 0/ 13	
REQD S   MAX/MI   BASIC/   REQUIRED R SECTION ( MM ) 0. 71. 142. 212.	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263. 261	KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS(+VE (KNS-ME 0./ 0./ 0./ 0./ 0./	850.MM, LC )194 ROWMN= 294.MMS 178.MMS (78.M	DAD 14   = .0033     	
REQD S   MAX/MI   BASIC/   REQUIRED R SECTION ( MM ) 0. 71. 142. 212. 283. 354.	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263. 261. 260. 259.	<pre>KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS(+VE (KNS-ME 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./</pre>	850.MM, LC 194 ROWMN= 294.MMS 178.MMS 27. 27. 23. 23. 23. 23. 22. 22. 22. 22	DAD 14   = .0033     LOAD (+VE/-VE) 0/ 13 0/ 13 0/ 13	
REQD S   MAX/MI   BASIC/   REQUIRED R SECTION ( MM ) 0. 71. 142. 212. 283. 354. 425.	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263. 261. 260. 259. 258.	<pre>KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS(+VE (KNS-ME 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./</pre>	850.MM, LC 194 ROWM= 294.MMS 178.MMS 278.MMS 27. 23. 23. 23. 22. 22. 22. 22. 22	DAD 14   = .0033     LOAD (+VE/-VE) 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13	
REQD S   MAX/MI   BASIC/   REQUIRED R SECTION ( MM ) 0. 71. 142. 212. 283. 354. 425. 496.	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263. 261. 260. 259. 258. 259.	<pre>KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS(+VE (KNS-ME 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./</pre>	850.MM, LC )194 ROWMN= 294.MMS 178.MMS 178.MMS 2/-VE) 1 23. 23. 23. 23. 22. 22. 22. 22.	DAD 14 [ = .0033 [ 	
REQD S   MAX/MI   BASIC/   REQUIRED R SECTION ( MM ) 0. 71. 142. 212. 283. 354. 425.	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263. 261. 260. 259. 258.	<pre>KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS(+VE (KNS-ME 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./</pre>	850.MM, LC 0194 ROWMN= 294.MMS 178.MMS 178.MMS 23. 23. 23. 22. 22. 22. 22. 22.	DAD 14   = .0033     LOAD (+VE/-VE) 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13 0/ 13	
REQD S   MAX/MI   BASIC/ 	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263. 261. 260. 259. 258. 259. 260. 261. 260. 261. 265.	<pre>KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS(+VE (KNS-ME 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./</pre>	850.MM, LC 194 ROWMN= 294.MMS 178.MMS 27. 23. 23. 23. 22. 22. 22. 22. 22	DAD 14 [ = .0033 [ 	
REQD S   MAX/MI   BASIC/   REQUIRED R SECTION ( MM ) 0. 71. 142. 212. 283. 354. 425. 496. 567. 637.	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263. 261. 260. 259. 258. 259. 260. 261. 265. 274.	<pre>KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS(+VE (KNS-ME 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./</pre>	850.MM, LC 0194 ROWMN= 294.MMS 178.MMS 178.MMS 23. 23. 23. 22. 22. 22. 22. 22.	DAD 14 [ = .0033 [ 	
REQD S   MAX/MI   BASIC/ 	TEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263. 261. 263. 259. 258. 259. 259. 260. 261. 265. 274. 283.	<pre>KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS(+VE (KNS-ME 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./</pre>	850.MM, LC 0194 ROWMN= 294.MMS 178.MMS 278.MMS 23. 23. 23. 22. 22. 22. 22. 22.	DAD 14 [ = .0033 [ 	
REQD S   MAX/MI   BASIC/ 	TTEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263. 261. 260. 259. 258. 259. 260. 261. 265. 274. 283. 5 D E S I C 12.80 KNS	<pre>KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS (+VE (KNS-ME 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./</pre>	850.MM, LC )194 ROWMN= 294.MMS 178.MMS 278.MMS 27. 23. 23. 23. 22. 22. 22. 22. 22	DAD 14 [ 	
REQD S   MAX/MI   BASIC/ 	TTEEL= 804.M N/ACTUAL BAR REQD. DEVELOP EINF. STEEL S REINF STEEL (SQ. MM 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	M2, ROW= .00 SPACING= 8 MENT LENGTH UMMARY : (+VE/-VE) ) 269. 266. 263. 261. 260. 259. 258. 259. 260. 261. 265. 274. 283. 5 D E S I G 12.80 KNS RRUPS ARE NO 16.59 KNS	<pre>KN-MET AT 33, ROWMX= .0 82./ 41./ = 316./ 4 MOMENTS (+VE (KNS-ME 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./</pre>	850.MM, LC )194 ROWMN= 294.MMS 178.MMS 278.MMS 27. 23. 23. 23. 22. 22. 22. 22. 22	DAD 14 [ 	

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1 86. 4 -	16MM 0.	850. YES	YES -I
1 86. 4     CRITICAL POS MOMENT   REQD STEEL= 804.N	- 16MM 0. T= 29.72 KN-MET A M2, ROW= .0033, ROWMX	850. YES T 850.MM, LOAD 26 = .0194 ROWMN= .0033	YES -  
1 86. 4 CRITICAL POS MOMENT REQD STEEL= 804.N MAX/MIN/ACTUAL BAR	- 16MM 0. F= 29.72 KN-MET A	850. YES T 850.MM, LOAD 26 = .0194 ROWMN= .0033 ./ 294.MMS	YES -  
1 86. 4 CRITICAL POS MOMENT REQD STEEL= 804.N MAX/MIN/ACTUAL BAR	- 16MM 0. T= 29.72 KN-MET A 1M2, ROW= .0033, ROWMX SPACING= 882./ 41	850. YES T 850.MM, LOAD 26 = .0194 ROWMN= .0033 ./ 294.MMS	YES -  
1 86. 4 CRITICAL POS MOMENT REQD STEEL= 804.N MAX/MIN/ACTUAL BAR	- 16MM 0. T= 29.72 KN-MET A MM2, ROW= .0033, ROWMX SPACING= 882./ 41 PMENT LENGTH = 316./	850. YES T 850.MM, LOAD 26 = .0194 ROWMN= .0033 ./ 294.MMS 478.MMS 850. YES	YES -  
1 86. 4 CRITICAL POS MOMENT REQD STEEL= 804.N MAX/MIN/ACTUAL BAR BASIC/REQD. DEVELOD 2 239. 4 CRITICAL NEG MOMENT	- 16MM 0. T= 29.72 KN-MET A 4M2, ROW= .0033, ROWMX SPACING= 882./ 41 PMENT LENGTH = 316./ - 16MM 0. T= 24.23 KN-MET P	850. YES T 850.MM, LOAD 26 = .0194 ROWMN= .0033 ./ 294.MMS 478.MMS 850. YES T 0.MM, LOAD 14	YES
1 86. 4 CRITICAL POS MOMENT REQD STEEL= 804.N MAX/MIN/ACTUAL BAR BASIC/REQD. DEVELOD 2 239. 4 CRITICAL NEG MOMENT REQD STEEL= 804.3 MAX/MIN/ACTUAL BAR	- 16MM 0. T= 29.72 KN-MET A 4M2, ROW= .0033, ROWMX SPACING= 882./ 41 PMENT LENGTH = 316./ - 16MM 0. T= 24.23 KN-MET A MM2, ROW= .0033, ROWMX SPACING= 882./ 41	850. YES T 850.MM, LOAD 26 = .0194 ROWMN= .0033 ./ 294.MMS 478.MMS 478.MMS 850. YES T 0.MM, LOAD 14 = .0194 ROWMN= .003 ./ 294.MMS	YES
1 86. 4 CRITICAL POS MOMENT REQD STEEL= 804.N MAX/MIN/ACTUAL BAR BASIC/REQD. DEVELOD 2 239. 4 CRITICAL NEG MOMENT REQD STEEL= 804.3 MAX/MIN/ACTUAL BAR	- 16MM 0. T= 29.72 KN-MET A 4M2, ROW= .0033, ROWMX SPACING= 882./ 41 PMENT LENGTH = 316./ - 16MM 0. T= 24.23 KN-MET A MM2, ROW= .0033, ROWMX	850. YES T 850.MM, LOAD 26 = .0194 ROWMN= .0033 ./ 294.MMS 478.MMS 478.MMS 850. YES T 0.MM, LOAD 14 = .0194 ROWMN= .003 ./ 294.MMS	YES
1 86. 4 CRITICAL POS MOMENT REQD STEEL= 804.N MAX/MIN/ACTUAL BAR BASIC/REQD. DEVELOD 2 239. 4 CRITICAL NEG MOMENT REQD STEEL= 804.3 MAX/MIN/ACTUAL BAR	- 16MM 0. T= 29.72 KN-MET A 4M2, ROW= .0033, ROWMX SPACING= 882./ 41 PMENT LENGTH = 316./ - 16MM 0. T= 24.23 KN-MET A MM2, ROW= .0033, ROWMX SPACING= 882./ 41	850. YES T 850.MM, LOAD 26 = .0194 ROWMN= .0033 ./ 294.MMS 478.MMS 478.MMS 850. YES T 0.MM, LOAD 14 = .0194 ROWMN= .003 ./ 294.MMS	YES
1 86. 4 CRITICAL POS MOMENT REQD STEEL= 804.N MAX/MIN/ACTUAL BAR BASIC/REQD. DEVELOD 2 239. 4 CRITICAL NEG MOMENT 1 REQD STEEL= 804.3 MAX/MIN/ACTUAL BAR	- 16MM 0. T= 29.72 KN-MET A 4M2, ROW= .0033, ROWMX SPACING= 882./ 41 PMENT LENGTH = 316./ - 16MM 0. T= 24.23 KN-MET A MM2, ROW= .0033, ROWMX SPACING= 882./ 41 PMENT LENGTH = 316./	850. YES T 850.MM, LOAD 26 = .0194 ROWMN= .0033 ./ 294.MMS 478.MMS 478.MMS 850. YES T 0.MM, LOAD 14 = .0194 ROWMN= .003 ./ 294.MMS	YES

SECTION R	EINF STEEL(	+VE/-VE)	MOMENTS'(+V	E/-VE)	LOAD (+VE	E/-VE)
(MM)	(SQ, MM	)	(KNS-M	iet )		
0.	0./	283.	0./	24.	0/	14
71.	0./	258.	0./	22.	0/	14
142.	29./	234.	3./	20.	26/	14
212.	63./	210.	5./	18.	26/	14
283.	97./	188.	8./	16.	26/	14
354.	130./	170.	11./	15.	26/	19
425.	163./	154.	14./	13.	26/	19
496.	195./	139.	17./	12.	26/	19
567.	226./	124.	19./	11.	26/	19
637.	257./	109.	22./	9.	26/	19
708.	288./	96.	25./	8.	26/	19
779.	318./	82.	27./	7.	26/	19
850.	348./	70.	30./	6.	26/	19
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1     CRITIC	(MM) 86. 6 Al POS MOMEN	- 16MM IT= 96.21	(MM) 0. 6 KN-MET AT	(MM) 850. 850.MM, LO	STA YES AD 26	END YES   
1 	(MM) 86. 6 AL POS MOMEN TEEL= 1133.	- 16MM IT= 96.24 MM2, ROW= .(	(MM) 0. 6 KN-MET AT 0047, ROWMX=	(MM) 850. 850.MM, LO .0194 ROWMN=	STA YES AD 26	END YES   
1 CRITIC REQD S' MAX/MI	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAF	- 16MM IT= 96.24 MM2, ROW= .( SPACING=	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./	(MM) 850. 850.MM, LO .0194 ROWMN= 176. MMS	STA YES AD 26	END YES   
1     CRITIC, REQD S'   MAX/MI	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAF	- 16MM IT= 96.24 MM2, ROW= .( SPACING=	(MM) 0. 6 KN-MET AT 0047, ROWMX=	(MM) 850. 850.MM, LO .0194 ROWMN= 176. MMS	STA YES AD 26	END YES   
1 CRITIC REQD S MAX/MI BASIC/	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAP REQD. DEVELC	- 16MM IT= 96.24 MM2, ROW= .( & SPACING= DPMENT LENGTH	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./ H = 316./	(MM) 850. 850.MM, LO .0194 ROWMN= 176. MMS 449. MMS	STA YES AD 26	END YES   
1 CRITIC REQD S' MAX/MI	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAF	- 16MM IT= 96.24 MM2, ROW= .( & SPACING= DPMENT LENGTH	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./	(MM) 850. 850.MM, LO .0194 ROWMN= 176.MMS 449.MMS 549.	STA YES AD 26 .0033 YES	END YES I I I NO
1 CRITIC REQD S' MAX/MI BASIC/ 2	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAR REQD. DEVELC 239. 4	- 16MM IT= 96.20 MM2, ROW= .( SPACING= DPMENT LENGTH - 16MM	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./ H = 316./ 0.	(MM) 850. 850.MM, LO .0194 ROWMN= 176.MMS 449.MMS 549.	STA YES AD 26 .0033 YES	END YES   
1 CRITIC REQD S MAX/MI BASIC/ 2 CRITIC	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAP REQD. DEVELC 239. 4 AL NEG MOMEN	- 16MM IT= 96.20 MM2, ROW= .0 SPACING= DPMENT LENGTH - 16MM IT= 6.09	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./ H = 316./ 0. 5 KN-MET AT	(MM) 850. 850.MM, LO .0194 ROWMN= 176.MMS 449.MMS 549. 0.MM, LO	STA YES AD 26 .0033 YES AD 19	END YES I I I I I I I I I I I I I I I I I I I
1 CRITIC REQD S' MAX/MI BASIC/ 2 CRITIC REQD S' MAX/MI	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAP REQD. DEVELC 239. 4 AL NEG MOMEN TEEL= 804. N/ACTUAL BAP	- 16MM IT= 96.20 MM2, ROW= .0 SPACING= OPMENT LENGTH - 16MM IT= 6.09 MM2, ROW= .0 SPACING=	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./ H = 316./ 0. 5 KN-MET AT 0033, ROWMX= 882./ 41./	(MM) 850. 850.MM, LO .0194 ROWMN= 176.MMS 449.MMS 549. 0.MM, LO .0194 ROWMN= 294.MMS	STA YES AD 26 .0033 YES AD 19	END YES I I I I I I I I I I I I I I I I I I I
1 CRITIC REQD S' MAX/MI BASIC/ 2 CRITIC REQD S' MAX/MI	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAP REQD. DEVELC 239. 4 AL NEG MOMEN TEEL= 804. N/ACTUAL BAP	- 16MM IT= 96.20 MM2, ROW= .0 SPACING= OPMENT LENGTH - 16MM IT= 6.09 MM2, ROW= .0 SPACING=	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./ H = 316./ 0. 5 KN-MET AT 0033, ROWMX=	(MM) 850. 850.MM, LO .0194 ROWMN= 176.MMS 449.MMS 549. 0.MM, LO .0194 ROWMN= 294.MMS	STA YES AD 26 .0033 YES AD 19	END YES I I I I I I I I I I I I I I I I I I I
1 CRITIC REQD S' MAX/MI BASIC/ 2 CRITIC REQD S' MAX/MI	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAP REQD. DEVELC 239. 4 AL NEG MOMEN TEEL= 804. N/ACTUAL BAP	- 16MM IT= 96.20 MM2, ROW= .0 SPACING= OPMENT LENGTH - 16MM IT= 6.09 MM2, ROW= .0 SPACING=	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./ H = 316./ 0. 5 KN-MET AT 0033, ROWMX= 882./ 41./	(MM) 850. 850.MM, LO .0194 ROWMN= 176.MMS 449.MMS 549. 0.MM, LO .0194 ROWMN= 294.MMS	STA YES AD 26 .0033 YES AD 19	END YES   
1   CRITIC   REQD S'   MAX/MI   BASIC/   	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAP REQD. DEVELC 239. 4 AL NEG MOMEN TEEL= 804. N/ACTUAL BAP	- 16MM IT= 96.20 MM2, ROW= .0 SPACING= OPMENT LENGTH - 16MM IT= 6.09 MM2, ROW= .0 SPACING=	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./ H = 316./ 0. 5 KN-MET AT 0033, ROWMX= 882./ 41./	(MM) 850. 850.MM, LO .0194 ROWMN= 176.MMS 449.MMS 549. 0.MM, LO .0194 ROWMN= 294.MMS	STA YES AD 26 .0033 YES AD 19	END YES   
1 CRITIC REQD S' MAX/MIJ BASIC/J 2 CRITIC REQD S' MAX/MIJ BASIC/J	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAP REQD. DEVELC 239. 4 AL NEG MOMEN TEEL= 804. N/ACTUAL BAP	- 16MM IT= 96.20 MM2, ROW= .0 SPACING= OPMENT LENGTH - 16MM IT= 6.09 MM2, ROW= .0 SPACING= OPMENT LENGTH	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./ H = 316./ 0. 5 KN-MET AT 0033, ROWMX= 882./ 41./	(MM) 850. 850.MM, LO .0194 ROWMN= 176.MMS 449.MMS 549. 0.MM, LO .0194 ROWMN= 294.MMS	STA YES AD 26 .0033 YES AD 19	END YES   
1 CRITIC REQD S' MAX/MII BASIC/ 2 CRITIC REQD S' MAX/MII BASIC/ BASIC/ REQUIRED R	(MM) 86. 6 AL POS MOMEN TEEL= 1133. N/ACTUAL BAP REQD. DEVELC 239. 4 AL NEG MOMEN TEEL= 804. N/ACTUAL BAP REQD. DEVELC EINF. STEEL	- 16MM IT= 96.20 MM2, ROW= .( SPACING= DPMENT LENGTH - 16MM IT= 6.0! MM2, ROW= .( SPACING= DPMENT LENGTH SUMMARY :	(MM) 0. 6 KN-MET AT 0047, ROWMX= 882./ 41./ H = 316./ 0. 5 KN-MET AT 0033, ROWMX= 882./ 41./ H = 316./	(MM) 850. 850.MM, LC 0194 ROWMN= 176.MMS 449.MMS 549. 0.MM, LC 0194 ROWMN= 294.MMS 478.MMS	STA YES AD 26 .0033 YES AD 19 .0033	END YES   
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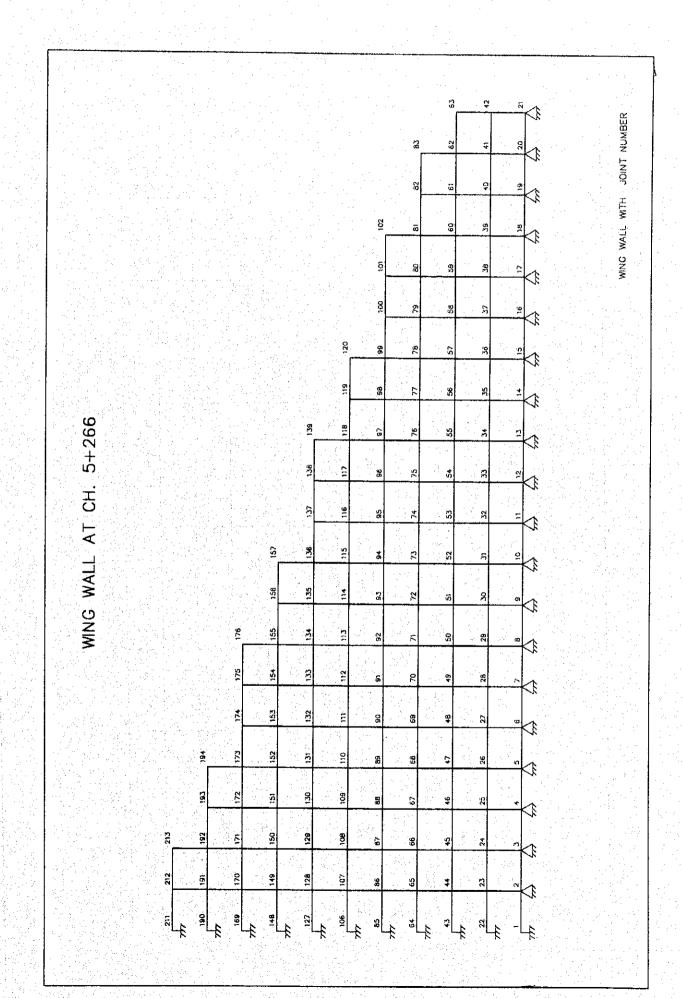
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113. 25 114. 26 115. 27 116. 28	FY FY FY FY	-17 -16. -15. -14.	04 33 62 91							
113. 25 114. 26 115. 27	FY FY FY	-17. -16. -15	04 33 62 91							
113. 25 114. 26 115. 27 116. 28	FY FY FY FY	-17. -16. -15. -14. -14.	04 33 62 91 21							
113. 25 114. 26 115. 27 116. 28 117. 29 118. 30	FY FY FY FY FY FY	-17. -16. -15. -14. -14. -13.	04 33 62 91 21 50							
113. 25 114. 26 115. 27 116. 28 117. 29 118. 30 .119. 31	FY FY FY FY FY FY FY	-17. -16. -15. -14. -14. -13. -12.	04 33 62 91 21 50 79							
113. 25 114. 26 115. 27 116. 28 117. 29 118. 30 .119. 31 120. 32	FY FY FY FY FY FY FY	-17. -16. -15. -14. -14. -13. -12. -12.	04 33 62 91 21 50 79 09							
113. 25 114. 26 115. 27 116. 28 117. 29 118. 30 .119. 31 120. 32 121. 33	FY FY FY FY FY FY FY FY	-17. -16. -15. -14. -14. -13. -12. -12. -11.	04 33 62 91 21 50 79 09 38							
113. 25 114. 26 115. 27 116. 28 117. 29 118. 30 .119. 31 120. 32 121. 33 122. 34	FY FY FY FY FY FY FY	-17. -16. -15. -14. -14. -13. -12. -12. -11. -10.	04 33 62 91 21 50 79 09 38 67							
113. 25 114. 26 115. 27 116. 28 117. 29 118. 30 .119. 31 120. 32 121. 33	FY FY FY FY FY FY FY FY	-17. -16. -15. -14. -14. -13. -12. -12. -11.	04 33 62 91 21 50 79 09 38 67							
113. 25 114. 26 115. 27 116. 28 117. 29 118. 30 .119. 31 120. 32 121. 33 122. 34	FY FY FY FY FY FY FY FY FY	-17. -16. -15. -14. -14. -13. -12. -12. -11. -10. -9.	04 33 62 91 21 50 79 09 38 67							
113. 25 114. 26 115. 27 116. 28 117. 29 118. 30 .119. 31 120. 32 121. 33 122. 34 123. 35 124. 36	FY FY FY FY FY FY FY FY FY FY	$\begin{array}{c} -17. \\ -16. \\ -15. \\ -14. \\ -14. \\ -13. \\ -12. \\ -12. \\ -11. \\ -10. \\ -9. \\ 0. \end{array}$	04 33 62 91 21 50 79 09 38 67 96 00							
113. 25 114. 26 115. 27 116. 28 117. 29 118. 30 .119. 31 120. 32 121. 33 122. 34 123. 35 124. 36 125. 37	FY FY FY FY FY FY FY FY FY FY FY	-17. -16. -15. -14. -14. -13. -12. -12. -11. -10. -9. 0. 0.	04 33 62 91 21 50 79 09 38 67 96 00 00							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	FY FY FY FY FY FY FY FY FY FY FY FY	$\begin{array}{c} -17. \\ -16. \\ -15. \\ -14. \\ -14. \\ -13. \\ -12. \\ -12. \\ -11. \\ -10. \\ -9. \\ 0. \\ 0. \\ 0. \\ 0. \end{array}$	04 33 62 91 21 50 79 09 38 67 96 00 00 00							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	FY FY FY FY FY FY FY FY FY FY FY FY	$\begin{array}{c} -17. \\ -16. \\ -15. \\ -14. \\ -14. \\ -13. \\ -12. \\ -12. \\ -11. \\ -10. \\ -9. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ $	04 33 62 91 21 50 79 09 38 67 96 00 00 00 00 00							
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	FY FY FY FY FY FY FY FY FY FY FY FY	$\begin{array}{c} -17. \\ -16. \\ -15. \\ -14. \\ -14. \\ -13. \\ -12. \\ -12. \\ -11. \\ -10. \\ -9. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ $	04 33 62 91 21 50 79 09 38 67 96 00 00 00 00 00							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	FY FY FY FY FY FY FY FY FY FY FY FY	$\begin{array}{c} -17. \\ -16. \\ -15. \\ -14. \\ -14. \\ -13. \\ -12. \\ -12. \\ -11. \\ -10. \\ -9. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ $	04 33 62 91 21 50 79 09 38 67 96 00 00 00 00 00 00							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<ul> <li>FY</li> </ul>	$\begin{array}{c} -17. \\ -16. \\ -15. \\ -14. \\ -14. \\ -13. \\ -12. \\ -12. \\ -11. \\ -10. \\ -9. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ $	04 33 62 91 21 50 79 09 38 67 96 00 00 00 00 00 00 00 00							

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			1000 - 1000 1000 - 1000 - 1000 - 1000 1000 - 1000 - 1000 - 1000 - 1000 - 1000		BC	X CULVERT	AT CH, 5+266	(WING WAL	L)
131. 44	FY	-15.36		an an an An An an Ann		I the			
132. 45 133. 46	FY FY	-14.65 -13.94						. * • * *. • *.	
134. 47 135. 48	FY FY	-13.24 -12.53			a see ta				
 136. 49 137. 50	FY FY	-11.82 -11.12			far. Ar star				
138.51 139.52	EY FY	-10.41 -9.70							
140. 53 141. 54	FY FY	-8.99 -8.29							
142.55 143.56	FY FY	-7.58							
144. 57 145. 58	FY FY	0.00							
146. 59	FY	0.00							
147.60 148.61	FY FY	0.00							n an
149. 62 150. 63	FY FY	0.00 0.00							
151. 65 152. 66	FY FY	-12.27 -11.56							
153. 67 154. 68	FY FY	-10.85 -10.15	n e a se Meta est						
155. 69 156. 70	FY FY	-9.44 -8.73							
157.71 158.72	FY FY	-8.02 -7.32							
159.73 160.74	FY FY	-6.61 -5.90							
161.75 162.76	FY FY	-5.20 -4.49							
163.77 164.78	FY FY	-3.78							
165, 79 166, 80	FY FY	0.00							
167. 81 168. 82	FY FY	0.00							
169.83 170.86	FY FY	0.00							
171. 87 172. 88	FY FY	-9.19							
173. 89 174. 90	FY	-8.49							
175.91	FY FY	-7.07 -6.37							
176.92 177.93	FY FY	-5.66 -4.95							
178.94 179.95	FY FY	-4.24 -3.54							
180.96 181.97	FY Fy	-2.83 -2.12							
182.98 183.99	FY FY	-1.41 0.00							
184. 100 185. 101	FY FY	0.00 0.00							
186. 102 187. 107	EY Fy	0.00 -8.13							
188. 108 189. 109	ey Fy	-7.43 -6.72							
190. 110 191. 111	EY Fy	-6.01 -5.30							
192. 112 193. 113	FY FY	-4.60 -3.89							
194.114 195.115	FY FY	-3.18 -2.48							
196. 116 197. 117	FY FY	-1.77							
198. 118 199. 119	FY FY	-0.35							
200. 120	FY	0.00							
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	1		1				
	201.	128		FY		-6.37	
	202.	129	į.	FY	1 - A.	-5.66	
	203.	130		FΥ	ана 1919 г. – С	-4.95	
	204.	131		FΥ		-4.24	
	205.	132	·	FY	1.1.1	-3.54	
· .	206.	133		FY	1.1	-2.83	
	207.	134	÷.	FY		-2.12	
	208.	135		FΥ		-1.41	
	209.	136	1	FY		-0.71	
· .	210.	137	1	FY	in Sainte	0.00	
	211.	138	١.	FY		0.00	
	212.	139	' -	ГY		0.00	
	213.	149		FY	inter La constante	-4.60	
	214.	150	٠.	FY		-3.89	
	215.	151	-	ΕY	12	-3.18	
->	216.	152		FY		-2.48	
5	217.	153		£Υ		-1.77	
	218.	154		FY	252	-1.06	
- 1	219.	155	÷	FY	e ja es	-0.35	
	220.	156		FY		0.00	
	221.	157	,i	FY	4	0.00	
ан 1. т.	222.	170		FΥ	11 A.	-2.83	
	223.	171		FY		-2.12	
÷.,	224.	172		FY	i Kara	-1.41	
14.	225.	173		FΥ	1997 - 1997 -	-0.71	
s	226.	174	÷	£Υ	· .	0.00	
200	227.	175	2.5	FΥ		0.00	
Ľ.	228.	176	,÷	FΥ		0.00	
÷.	229.	191		FY	$\frac{1}{2}$	-1.06	
	230.	192		FΥ		-0.35	
	231.	193	·	FY	1977 A.	0.00	
1	232.	194	3	£Υ	= 1/2	0.00	
	233.	212		FY		0.00	
	234.	213		£Υ	1.00	0.00	)

236. PER ANA

PROBLEM STATISTICS

NUMBER OF JOINTS/MEMBER+ELEMENTS/SUPPORTS = 155/ 268/ 31 ORIGINAL/FINAL BAND-WIDTH = 21/ 9 TOTAL PRIMARY LOAD CASES = 1, TOTAL DEGREES OF FREEDOM = 784 SIZE OF STIFFNESS MATRIX = 43904 DOUBLE PREC. WORDS REQRD/AVAIL. DISK SPACE = 12.59/ 246.1 MB, EXMEM = 1964.5 MB

++ Processing Element Stiffness Matrix.9:18: 7++ Processing Global Stiffness Matrix.9:18: 7++ Processing Triangular Factorization.9:18: 7++ Calculating Joint Displacements.9:18: 7++ Calculating Member Forces.9:18: 7

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237. PRINT MEM FORCES

MEMBER END FORCES STRUCTURE TYPE = SPACE

ALL UNITS ARE -- KNS METE

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MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
1	1	1 2	.00 .00	704.09 -704.09	.00 .00	.00 .00	.00 .00	2696.95 -2302.67
2	1	2 3	.00 .00	669.87 -669.87	.00 .00	.00 .00	.00 .00	2302.66 -1927.54
3	1	3 4	.00	617.47 -617.47	.00 .00	.00 .00	.00 .00	1927.53 -1581.75
4	1	4 5	.00 .00	555.54 -555.54	.00 .00	.00 .00	.00 .00	1581.75 -1270.65
5	1	5 6	.00 .00	489.65 -489.65	.00 .00	.00 .00	.00 .00	1270.65 -996.44
6	1	6 7	.00 .00	423.11 -423.11	.00 .00	.00 .00	.00 .00	996.44 -759.50
7	1	7 8	.00 .00	358.19 -358.19	.00 .00	.00 .00	.00	759.50 -558.91
8	1	8 9	.00 .00	296.31 -296.31	.00 .00	.00 .00	.00 .00	558.90 -392.97
9	1	9 10	.00 .00	238.16 -238.16	.00 .00	.00 .00	.00 .00	392.98 -259.61
10	1	10 11	.00 .00	184.09 -184.09	.00 .00	.00 .00	.00 .00	259.61 -156.52
11	1	11 12	.00 .00	134.22 -134.22	.00 .00	.00 .00	.00 .00	156.52 -81.36
12	1	12 13	.00 .00	88.54 -88.54	.00 .00	.00 .00	.00 .00	81.36 -31.77
13	1	13 14	.00 .00	47.54 -47.54	.00 .00	.00 .00	.00 .00	31.78 -5.15
14	1	14 15	.00 .00	13.33 -13.33	.00 .00	.00	.00 .00	5.16 2.31
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MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-2	TORSION	MOM-Y	MOM-Z
15	1	15 16	.00.	4.51 ~4.51	.00 .00	.00 .00	.00 .00	-2.31 4.84
16	1	16 17	.00 .00	.61 61	.00 .00	.00 .00	.00 .00	-4.84 5.18
17	1	17 18	.00 .00	-1.57 1.57	.00 .00	.00 .00	.00 .00	-5.18 4.30
18	1	18 19	.00 .00	-2.64 2.64	.00 .00	.00 .00	.00 .00	-4.30 2.82
19	1	19 20	.00 .00	-2.73 2.73	.00 .00	.00 .00	.00 .00	-2.82 1.29
20	1	20 21	.00 .00	-2.31 2.31	.00 .00	.00 .00	.00 .00	-1.29 .00
21	1	22 23	.00 .00	19.90 -19.90	.00 .00	.00 .00	.00 .00	16.53 -5.38
22	1	23 24	.00 .00	4.76 -4.76	.00 .00	.00 .00	.00 .00	5.38 -2.72
23	1	24 25	.00 .00	1.53 -1.53	.00 .00	.00 .00	.00 .00	2.72 -1.86
24	1	25 26	.00 .00	.95 95	.00 .00	.00 .00	.00 .00	1.86 -1.33
25	1	26 27	.00 .00	.70 70	.00 .00	.00 .00	.00 .00	1.33 94
26	1	27 28	.00 .00	.52 52	.00	.00 .00	.00 .00	.94 65
27	1	28 29	.00 .00	.37 37	.00	.00 .00	.00 .00	.65 44
28	1	29 30	.00 .00	.33 33	.00 .00	.00 .00	.00 .00	.44 26
29	1	30 31	.00 .00	.35 35	.00 .00	.00 .00	.00 .00	.26 07
30	1	31 32	.00 .00	.33 33	.00 .00	.00 .00	.00 .00	.07 .12
31	1	32 33	.00 .00	.31 31	.00 .00	.00 .00	.00 .00	12 .29
32	1	33 34	.00 .00	.35 35	.00 .00	.00 .00	.00 .00	29 .48
33	1	34 35	.00 .00	.14 14	.00 .00	.00 .00	.00 .00	48 .56
34	1	35 36	00 .00	-1.84 1.84	.00 .00	.00 .00	.00 .00	56 47
35	1	36 37	.00 .00	.08 80	,00 .00	.00 .00	.00 .00	.47 43
36	1	37 38	.00 .00	.17 17	.00 .00	.00 .00	.00 .00	.43 34
37	1	38 39	.00 .00	.29 29	.00 .00	.00 .00	.00 .00	.34 17

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MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-2
38	1	39 40	.00 .00	33 .33	.00 .00	.00	.00 .00	.17
		4			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
39	1	40	.00	.38	.00	.00	.00	.36
		41	.00	38	.00	.00	.00	14
40	1	41	.00	.26	00	00	00	1.4
40	1	42	.00	26	.00	.00	.00	.14
	 	72	.00	20	.00	.00	.00	.00
41	1	43	.00	23.81	.00	.00	.00	22.35
		44	.00	-23.81	.00	.00	.00	-9.01
	1 - E	11.4						
42	1	44	.00	11.28	.00	.00	.00	9.02
	e de la composition de	45	.00	-11.28	.00	.00	.00	-2.70
				a shekarar				
43	1	45	.00	4.10	.00	.00	.00	2.70
		46	.00	-4.10	.00	.00	.00	40
44	1	46	.00	1.37	.00	.00	.00	.40
		47.	.00	-1.37	.00	.00	.00	.37
					•••			
45	1	47	.00	.41	.00	.00	.00	37
		48	.00	41	· · · · · · · 00	.00	.00	.60
46	1	48	.00	.03	.00	.00	.00	60
an a		49	.00	03	.00	.00	.00	.62
47	1	49	.00	10	00	00	00	60
7/	1	50	.00	18	.00 .00	.00 .00	.00	62 .52
				• • • • • • • • • • • • • • • • • • •	.00	.00	.00	•J2
48	1	50	.00	16	.00	.00	.00	52
		51	.00	.16	.00	.00	.00	.43
49	1	51	.00	.19	.00	.00	.00	43
		52	.00	19	.00	.00	.00	.54
50	1	52	.00	40	00	00	00	
50	<u>2</u>	53	.00	.40 40	.00 .00	.00 .00	.00	54 .76
				• ••	.00	.00	.00	• 70
51	1	53	.00	.39	.00	.00	.00	76
		54	.00	39	.00	.00	.00	.99
52	1	54	.00	.20	.00	.00	.00	99
		55	.00	20	.00	.00	.00	1.10
53	1	55	.00	~.53	00	00	00	1 10
		56	.00	.53	.00 .00	.00 .00	.00	-1.10 .80
					.00		.00	.00
54	1	56	.00	-2.70	.00	.00	.00	80
		57	.00	2.70	.00	.00	.00	71
a ser a la cara								
55	1	57	.00	53	.00	.00	.00	.71
		58	.00	.53	.00	.00	.00	-1.00
56	1	58	.00	44	00	00	00	1 01
56	•	59	.00	44	.00	.00 .00	.00	1.01 -1.25
							.00	1.25
57	1	59	.00	. 68	.00	.00	.00	1.25
		60	.00	68	.00	.00	.00	87
58	1	60	.00	36	.00	.00	.00	.87
		61	.00	.36	.00	.00	.00	-1.07
en -	1	61	.00		~~	00		1 07
59	1	61 62	.00	14 .14	.00 .00	.00 .00	.00 .00	1.07 -1.15
		~~		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		.00		
60	1	62	.00	2.06	.00	.00	.00	1.15
	e ganta Angelari	63	.00	-2.06	.00	.00	.00	.00
		14194						

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MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	МОМ⊷Ү	MOM-2
61	··· <b>1</b>	64 65	.00	26.64 -26.64	.00 .00	.00	.00 .00	27.43 -12.51
62	1	65 66	.00 .00	15.59 -15.59	.00 .00	.00 .00	.00 .00	12.51 -3.78
63	1	66 67	.00	7.44 -7.44	.00 .00	.00 .00	.00 .00	3.78 .39
64	1	67 68	.00 .00	2.74 ~2.74	.00 .00	.00 .00	.00 .00	39 1.92
65	1	68 69	.00 .00	.56 56	.00 .00	.00 .00	.00 .00	-1.92 2.24
66	1	69 70	.00	24 .24	.00 .00	.00 .00	.00	-2.24 2.10
67	1	70	.00 .00	45 .45	.00	.00 .00	.00 .00	-2.11 1.85
68	1	71 71 72	.00	60	.00 .00	.00	.00	-1.85
69	1	72 72	.00	.60 08	.00	.00	.00 .00	1.52 -1.52
70	1	73 73	.00	.08	.00	.00	.00	1.48 -1.48
71	1	74 74	.00	- 65 .45	.00	.00	.00	1.84 -1.84
72	1	75 75	.00 .00	45 79	.00 .00	.00 .00	00. 00.	2.09
73	1	76 76	.00 .00	.79 -1.15	.00 .00	00. 00.	.00 .00	1.65 -1.65
74	1	רר רר	.00 .00	1.15 -2.99	.00 .00	.00 .00	.00 .00	1.01 -1.01
75	1	78 78	.00 .00	2.99 -1.17	.00 .00	.00 .00	.00 .00	67 .67
76	1	. 79 . 79	.00 .00	1.17 95	.00 .00	.00 .00	.00 .00	-1.32 1.32
77	1	80 80	.00 .00	.95 -2.49	.00 .00	.00 .00	.00 .00	-1.86 1.86
78	1	81 81	.00 .00	2.49 3.32	.00 .00	.00	.00 .00	-3.25 3.25
79	1	82 82	.00 .00	-3.32 2.48	.00 .00	.00 .00	.00 .00	-1.39 1.39
81	1	83 85	.00	-2.48 27.23	.00	.00 .00	.00 .00	.00 30.57
82	1	86 86	.00 .00	-27.23	.00 .00	.00 .00	.00	-15.33 15.33
83	- 1	87 87	.00	-17.72 9.98	.00	.00	.00 .00	-5.40 5.40
	4	88	.00	-9.98 4.42	.00	.00	.00	.18
84	1	88 89	.00	4.42	.00	.00	.00	2.66

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MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
85	1	89 90	.00 .00	1.26 -1.26	.00 .00	.00 .00	.00	-2.66 3.37
86	1	90 91	.00 .00	15 .15	.00 .00	.00 .00	.00 .00	-3.37 3.28
87	1	91 92	.00 .00	07 .07	.00 .00	.00 .00	.00 .00	-3.28 3.25
88	1	92 93	.00 .00	16 .16	.00 .00	.00 .00	.00 .00	-3.25 3.16
89	1	93 94	.00 .00	78 .78	.00 .00	.00	.00 .00	-3.16 2.72
90	1	94 95	.00 .00	1.07 -1.07	.00 .00	.00 .00	.00 .00	-2.72 3.32
91	1	95 96	.00 .00	.44 44	.00 .00	.00 .00	.00	-3.32 3.57
92	1	96 97	.00 .00	-2.27 2.27	.00 .00	.00 .00	.00	-3.57 2.30
93	1	97 98	.00 .00	-1.47 1.47	.00	.00 .00	.00 .00	-2.30 1.47
94	1	98 99	.00 .00	-3.45 3.45	.00 .00	.00 .00	.00 .00	-1.47 46
95	1	99 100	.00 .00	-2.89 2.89	.00 .00	.00 .00	.00	.46 -2.08
96	1	100 101	.00 .00	.62 62	.00 .00	.00 .00	.00 .00	2.08 -1.73
97	1	101 102	.00 .00	3.08 -3.08	.00 .00	.00 .00	.00 .00	1.73 .00
101	1	106 107	.00 .00	25.89 -25.89	.00 .00	.00 .00	.00 .00	31.66 -17.17
102	1	107 108	.00 .00	17,79 -17.79	.00 .00	.00 .00	.00 .00	17.17 -7.20
103	1	108 109	.00 .00	11.20 -11.20	.00 .00	.00 .00	.00 .00	7.21 93
104	1	109 110	.00 .00	5.79 -5.79	.00 .00	.00 .00	.00 .00	.93 2.31
105	1	110 111	.00 .00	2.31 -2.31	.00 .00	.00 .00	.00 .00	-2.31 3.61
106	1	111 112	.00 .00	.54 54	.00 .00	.00 .00	.00 .00	-3.61 3.91
107	1	112 113	.00 .00	.44 44	.00 .00	.00 .00	.00 .00	-3.91 4.16
108	1	113 114	.00 .00	2.42 -2.42	.00 .00	.00 .00	.00 .00	-4.16 5.51
109	1	114 115	.00 .00	-1.12 1.12	.00 .00	.00 .00	.00 .00	-5.51 4.89
110	1	115 116	.00 .00	.72 72	.00 .00	.00 .00	.00 .00	-4.89 5.29

11-295

				· ·		BOX C	ULVERT AT CH	I. 5+266 (WING
MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
111	1	116 117	.00 .00	-1.91 1.91	.00 .00	.00 .00	.00 .00	-5.29 4.23
112	1	117 118	.00 .00	.87 87	.00 .00	.00 .00	.00 .00	-4.23 4.71
113	1	118 119	.00 .00	-6.07 6.07	.00 .00	.00 .00	.00 .00	-4.71 1.31
114	1	119 120	.00 .00	-2.35 2.35	.00 .00	.00 .00	.00 .00	~1.31 .00
121	1	127 128	.00 .00	23.09 -23.09	.00	.00 .00	.00 .00	30.88 -17.95
122	1	128 129	.00 .00	16.14 -16.14	.00 .00	.00 .00	.00 .00	17.96 -8.92
123	1	129 130	.00	10.62 -10.62	.00 .00	.00 .00	.00 .00	8.92 -2.97
124	1	130 131	.00	6.90 -6.90	.00 .00	.00 .00	.00 .00	2.97 .90
125	1	131 132	.00 .00	2.95 -2.95	.00 .00	.00 .00	.00 .00	90 2.55
126	1	132	.00 .00	2.96 -2.96	.00 .00	.00 .00	,00, .00	-2.55 4.20
127		133 134	.00 .00	.93 93	.00 .00	.00 .00	.00 .00	-4.20 4.72 -4.72
128 129	1	134 135 135	.00 .00 .00	3.44 -3.44 8.27	.00 .00 .00	.00 .00 .00	.00 .00 .00	-4.72 6.65 -6.65
129	1	135 136 136	.00	-8.14	.00	.00	.00	11.28 -11.29
130	1	137 137	.00	8.14	.00	.00	.00	6.73 -6.73
132	1	138 138	.00	6.06 -5.96	.00 .00	.00	.00	3.33 -3.34
141	1	139 148	.00	5.96 18.31	.00	.00	.00	.00 28.30
142	1	149 149	.00	-18.31 14.16	.00 .00	.00 .00	.00 .00	-18.05 18.05
143	1	150 150	.00	-14.16	.00	.00 .00	.00 .00	-10.11 10.12
144	1	151	.00	-7.13 7.92	.00	.00	.00	-6.12 6.12
144	1	152 152	.00	-7.92 3.44	.00	.00	.00	-1.69 1.69
143	1	153	.00	-3.44 -3.44 5.89	.00	.00	.00	.24 24
		154 154	.00	-5.89	.00	.00 .00 01	.00	3.54 -3.54
147	1	154	.00 .00	7.78 -7.78	.00	01 .01	.00	7.89

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		· :				BUA	CULVERIAL	JH. 5+266 (WING W	ALL)
MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-2	TORSION	MOM-Y	MOM-Z	
148	1	155 156	.00 .00	-4.60 4.60	.00 .00	.00 .00	.00 .00	-7,90 5.32	
149	1	156 157	.00	-9.48 9.48	.00 .00	.00	.00	-5.32 .01	· ·
161	1	169	.00	9.87	.00	.00	.00	23.55	· .
162	1	170	.00	-9.87 12.16	.00 .00	.00	.00	-18.02 18.02	
		171	.00	-12.16	.00	.00	.00	-11.21	
163	1	171 172	.00 .00	4.39 -4.39	.00 .00	.00 .00	.00 .00	11.21 -8.75	
164	<b>1</b>	172 173	.00 .00	.87 87	.00 .00	.00 .00	.00 .00	8.75 -8.26	
165	1	173 174	.00 .00	13.91 -13.91	.00 .00	.00 .00	.00 .00	8.27 48	
166	1	174 175	.00 .00	3.99 -3.99	.00	.00 .00	.00	.48 1.75	
167	1	175 176	.00	-3.11 3.11	.00	01 .01	.00 .00	-1.75	
181	1	190	.00	4.78	.00	.00	.00	17.97	
182	1	191 191	.00 .00	-4.78 -4.40	.00 .00	.00 .00	.00 .00	-15.30 15.30	
183	1	192 192	.00	4.40 17.97	.00	.00	.00	-17.76 17.77	
		193	.00	-17.97	.00	.00	.00	-7.70	
184	1	193 194	.00 .00	13.75 -13.75	.00 .00	.00 .00	.00 .00	7.70	
191	1	211 212	.00 .00	12.34 -12.34	.00 .00	.00	.00 .00	15.43 -8.52	
192	1	212 213	.00 .00	15.20 -15.20	.00 .00	.01 01	.00 .00	8.52 01	
201	1	2 23	.00 .00	7.51 -7.51	.00 .00	.00 .00	.00	5.21 -1.50	
202	1	23 44	.00 .00	4.21 -4.21	.00 .00	.00 .00	.00 .00	1.50 .58	
203	1	44 65	.00	1.39 -1.39	.00 .00	.00 .00	.00 .00	58 1.26	
204	1	65 86	.00 .00	.16 16	.00 .00	.00	.00	-1.26	
205	1	86	.00	23	.00	.00	.00	-1.35	
206	1	107 107	.00	.23 26	.00 .00	.00	.00	1.23 -1.23	
207		128	.00	.26	.00	.00	.00	1.10	
201	1	128 149	.00 .00	.32 32	.00	.00 .00	.00 .00	-1.10 1.26	
208	1	149 170	.00 .00	14 .14	.00 .00	.00 .00	.00 .00	-1.26 1.19	
		1			ter en ser det. Ter en ser det				

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and the second					BOX CU		. 5+266 (WING V
MEMBER	LOAD JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
209	1 170	.00	-5.26	.00	.00	.00	-1.19
	191	.00	5.26	.00	.00	.00	-1.40
210	1 191	.00	2.86	.00	.00	.00	1.40
	212	.00	-2.86	.00	.00	.00	.00
211	1 3 24	.00 .00	26.56 -26.56	.00 .00	.00	.00 .00	17.70 -4.61
212	1 24	.00	12.05	.00	.00	.00	4.61
	45	.00	-12.05	.00	.00	.00	1.33
213	1 45	00.	4.57	.00	.00	.00	-1.33
	66	00.	-4.57	.00	.00	.00	3.58
214	1 66	.00	1.16	.00	.00	.00	-3.58
	87	00	-1.16	.00	.00	.00	4.15
215	1 87	.00	28	.00	.00	.00	-4.16
	108	.00	.28	.00	.00	.00	4.01
216	1 108	.00	-1.13	.00	.00	.00	-4.02
	129	.00	1.13	.00	.00	.00	3.46
217	1 129	.00	-1.27	.00	.00	.00	-3.46
	150	.00	1.27	.00	.00	.00	2.84
218	1 150	.00	1.87	.00	.00	.00	-2.84
	171	.00	-1.87	.00	.00	.00	3.76
219	1 171	.00	7.52	.00	.00	.00	-3.76
	192	.00	-7.52	.00	.00	.00	7.47
220	1 192	.00	-15.20	.00	01	.00	-7.47
	213	.00	15.20	.00	.01	.00	01
221	1 4	.00	36.94	.00	.00	.00	27.61
	25	.00	-36.94	.00	.00	.00	-9.39
222	1 25 46	.00 .00	20.48 -20.48	.00	.00 .00	.00 .00	9.39 .70
223	1 46	.00	9.27	.00	.00	.00	70
	67	.00	-9.27	.00	.00	.00	5.27
224	1 67	.00	3.13	.00	.00	.00	-5.27
	88	.00	-3.13	.00	.00	.00	6.80
225	1 88	.00	.19	.00	.00	.00	-6.80
	109	.00	19	.00	.00	.00	6.90
226	1 109	.00	-1.12	.00	.00	.00	-6.90
	130	.00	1.12	.00	.00	.00	6.35
227	1 130	.00	-2.35	.00	.00	.00	-6.35
	151	.00	2.35	.00	.00	.00	5.19
228	1 151	.00	-6.33	.00	.00	.00	-5.19
	172	.00	6.33	.00	.00	.00	2.08
229	1 172	.00	-4.21	.00	.00	.00	-2.08
	193	.00	4.21	.00	.00	.00	.00
231	1 5	.00	41.76	.00	.00	.00	34.28
	26	.00	-41.76	.00	.00	.00	-13.69
232	1 26	.00	25.68	.00	.00	.00	13.69
	47	.00	-25.68	.00	.00	.00	-1.03
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MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-2	TORSION	MOM-Y	MOM-Z
233	1	47 68	.00 .00	13.39 -13.39	.00	.00 .00	.00	1.04 5.55
234	1	68 89	.00 .00	5.42 -5.42	.00 .00	.00 .00	.00	-5.55 8.22
235	1	89 110	.00 .00	.80 80	.00 .00	.00 .00	.00 .00	-8.22 8.62
236	1	110 131	.00 .00	-1.73 1.73	.00 .00	.00 .00	.00 .00	-8.62 7.77
237		131 152	.00 .00	-2.01 2.01	.00 .00	.00 .00	.00 .00	-7.77 6.78
238	1	152 173	.00 .00	01 .01	.00 .00	.00 .00	.00 .00	-6.78 6.78
239	1	173 194	.00 .00	-13.75 13.75	.00 .00	.00 .00	.00 .00	-6.78 .00
241	1	6 27	.00 .00	43.25 -43.25	.00 .00	.00 .00	.00 .00	38.14 -16.82
242	1	27 48	.00 .00	27.82 -27.82	.00 .00	.00 .00	.00 .00	16.82 -3.10
243	1	48 69	.00 .00	15.67 -15.67	.00 .00	.00 .00	.00 .00	3.10 4.61
244	1	69 90	.00 .00	7.03 -7.03	.00 .00	.00 .00	.00 .00	-4.61 8.07
245	1	90 111	.00 .00	1.38 -1.38	.00 .00	.00 .00	.00 .00	-8.07 8.75
246		111 132	.00 .00	-2.15 2.15	.00 .00	.00 .00	.00 .00	-8.75 7.69
247		132 153	.00 .00	-5.70 5.70	.00 .00	.00 .00	.00 .00	-7.69 4.88
248	. 1	153 174	.00 .00	-9.92 9.92	.00 .00	.00 .00	.00 .00	-4.88 .00
251	1	7 28	.00 .00	42.50 -42.50	.00 .00	.00 .00	.00 .00	39.69 -18.74
252	1	28 49	.00 .00	27.74 -27.74	.00 .00	.00 .00	.00 .00	18.74 -5.07
253	1	49 70	.00 .00	16.13 -16.13	.00 .00	.00 .00	.00 .00	5.07 2.87
254	1	70 91	.00 .00	7.61 -7.61	.00 .00	.00 .00	.00	-2.87 6.61
255	1	91 112	.00 .00	1.16 -1.16	.00 .00	.00 .00	.00 .00	-6.61 7.18
256	1	112 133	.00 .00	-3.35 3.35	.00 .00	.00 .00	.00 .00	-7.18 5.53
257	1	133 154	.00 .00	-4.15 4.15	.00 .00	.00 .00	.00 .00	-5.53 3.49
258	1	154 175	.00 .00	-7.09 7.09	.00 .00	.00 .00	.00	-3.49 .00

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MEMBER	LOAD	) JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
261	1	8 29	.00	40.33 -40.33	.00	.00 .00	.00 .00	39.49 -19.61
262	1	29 50	.00 .00	26.16 -26.16	.00 .00	.00 .00	.00 .00	19.61 -6.71
263	1	50 71	.00 .00	15.02 -15.02	.00 .00	.00 .00	.00 .00	6.71 .68
264	1	71 92	.00 .00	7.16 -7.16	.00	.00 .00	.00 .00	68 4.20
265	1	92 113	.00 .00	1.58 -1.58	.00	.00 .00	.00 .00	-4.20 4.98
266	1	113 134	.00 .00	-4.28 4.28	.00 .00	.00 .00	.00 .00	-4.98 2.88
267	1	134 155	.00 .00	-8.91 8.91	.00 .00	.00 .00	.00 .00	-2.87 -1.52
268	1	155 176	.00 .00	3.11 -3.11	.00 .00	.01 01	.00 .00	1.52 .01
271	1	9 30	.00 .00	37.44 -37.44	.00 .00	.00 .00	.00 .00	38.08 -19.62
272	1	30 51	.00 .00	23.92 -23.92	.00 .00	.00 .00	.00 .00	19.62 -7.83
273	1	51 72	.00 .00	13.16 -13.16	.00 .00	.00 .00	.00 .00	7.83 -1.36
274	1	72 93	.00 .00	5.31 -5.31	.00	.00 .00	.00 .00	1.36 1.26
275	1	93 114	.00 .00	.99 99	.00 .00	.00 .00	.00 .00	-1.25 1.75
276	1	114 135	.00 .00	1.35 -1.35	.00 .00	.00 .00	.00 .00	-1.74 2.41
277	1	135 156	.00 .00	-4.89 4.89	.00 .00	.00 .00	.00 .00	-2.41 .00
281	1	10 31	.00 .00	34.22 -34.22	.00 .00	.00 .00	.00 .00	35.85 -18.99
282	1	31 52	.00 .00	21.45 -21.45	.00 .00	.00 .00	.00 .00	18.99 -8.41
283	1	52 73	.00 .00	11.54 -11.54	.00 .00	.00 .00	.00 .00	8.41 -2.73
284	1	73 94	.00 .00	4.20 -4.20	.00 .00	.00 .00	.00 .00	2.74 67
285	1	94 115	.00 .00	-1.90 1.90	.00 .00	.00 .00	.00 .00	.67 -1.61
286	1	115 136	.00 .00	-6.22 6.22	.00 .00	.00 .00	.00 .00	1.61 -4.67
287	1	136 157	.00 .00	9.48 -9.48	.00 .00	.01 01	.00 .00	4.67 .00
291	1	11 32	.00 .00	30.88 -30.88	.00 .00	.00 .00	.00 .00	32.98 -17.75

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MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
292	1	32 53	.00	18.81 -18.81	.00	.00 .00	.00	17.75 -8.48
293	1	53	.00	9.82	.00	.00	.00	8.48
		74	.00	-9.82	.00	.00	.00	-3.65
294	1	74 95	.00 .00	4.13 -4.13	.00 .00	.00	.00 .00	3.65 -1.62
295	1	95 116	.00 .00	1.22 -1.22	.00	.00 .00	.00 .00	1.62 -1.02
296	1	116	.00	2.08	.00	.00	.00	1.02
201		137	.00	-2.08	.00	00	.00	.00
301	. 1	12 33	.00 .00	27.54 -27.54	.00 .00	.00 .00	.00 .00	29.46 -15.89
302	. 1	33 54	.00 .00	16.12 -16.12	.00 .00	.00 .00	.00	15.89 -7.94
303	1	54	.00	8.02	.00	.00	.00	7.94
304	1	75 75	.00	-8.02 4.06	.00	.00	.00	-3.99
704		96	.00	-4.06	.00	.00	.00	-2.00
305	1	96 117	.00 .00	3.95 -3.95	.00 .00	.00 .00	.00 .00	2.00 05
306	1	117 138	.00 .00	.11 11	.00 .00	.00 .00	.00 .00	.05 .00
311	1	13 34	.00 .00	23.72 -23.72	.00 .00	.00 .00	.00 .00	25.12 -13.43
312	1	34 55	.00 .00	13.26 -13.26	.00 .00	.00 .00	.00 .00	13.43 -6.89
313	1	55 76	.00 .00	6.41 -6.41	.00 .00	.00 .00	.00 .00	6.89 -3.74
314	1	76 97	.00 .00	2.28 -2.28	.00 .00	.00 .00	.00 .00	3.74 -2.61
315	1	97 118	.00 .00	64 .64	.00 .00	.00 .00	.00 .00	2.62 -2.93
316	1	118 139	.00 .00	5.96 -5.96	.00 .00	.00 .00	.00 .00	2.93 .00
321	1	14 35	.00 .00	17.78 -17.78	.00 .00	.00 .00	.00 .00	19.49 -10.73
322	1	35 56	.00 .00	9.80 -9.80	.00 .00	.00 .00	.00 .00	10.73 -5.90
323	1	56 77	.00 .00	5.10 -5.10	.00 .00	.00 .00	.00 .00	5.90 -3.39
324	1	77 98	.00 .00	3.15 -3.15	.00 .00	.00 .00	.00 .00	3.39 -1.84
325	1	98 119	.00 .00	3.72 -3.72	.00 .00	.00 .00	.00 .00	1.84 .00
331	1	15 36	.00 .00	8.81 -8.81	.00 .00	.00 .00	.00 .00	12.66 -8.32
	10 C 10 C	6 S. S. S.		1	and the second states			and the transfer of the

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						BOX CL		. 3+200 (WING
MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	МОМ-Ү	MOM-Z
332	1	36 57	.00 .00	6,89 -6,89	.00	.00 .00	.00	8.32 -4.92
333	1	57 78	.00 .00	4.72 -4.72	.00 .00	.00 .00	.00 .00	4.92 -2.60
334	. 1	78 99	.00 .00	2.91 -2.91	.00 .00	.00 .00	.00 .00	2.60 -1.16
335	1	99 120	.00 .00	2.35 -2.35	.00	.00	.00 .00	1.16
341	1	16 37	.00 .00	3.91 -3.91	.00 .00	.00 .00	.00 .00	7.38 -5.45
342	1	37 58	.00 .00	3.82 -3.82	.00 .00	.00 .00	.00 .00	5.45 -3.57
343	1	58 79	.00 .00	3.73 -3.73	.00 .00	.00 .00	.00 .00	3.57 -1.73
344	1	79 100	.00 .00	3.51 -3.51	.00 .00	.00 .00	.00 .00	1.73 .00
351	1	17 38	.00 .00	2.17 -2.17	.00 .00	.00 .00	.00 .00	3.74 -2.67
352	1	38 59	.00 .00	2.05 -2.05	.00 .00	.00 .00	.00 .00	2.67 -1.66
353	1	59 80	.00 .00	.93 93	.00 .00	.00 .00	.00 .00	1.66 -1.21
361	1	18 39	.00 .00	1.07 -1.07	.00 .00	.00 .00	.00 .00	1.19 67
362	1	39 60	.00. .00	1.69 -1.69	.00 .00	.00 .00	.00 .00	.67 .17
363	1	60 81	.00 .00	2.73 -2.73	.00 .00	.00 .00	.00 .00	17 1.51
364	1	81 102	.00 .00	-3.08 3.08	.00 .00	.00 .00	.00 .00	-1.51 .00
371	1	19 40	.00 .00	.09 09	.00 .00	.00 .00	.00 .00	67 .72
372	1	40 61	.00 .00	62 .62	.00 .00	.00 .00	.00 .00	72 .41
381	1	20 41	.00 .00	42 .42	.00 .00	.00 .00	.00 .00	-1.57 1.36
382	1	41 62	.00 .00	29 .29	.00	.00 .00	.00 .00	-1.36 1.22
383	1	62 83	.00 .00	-2.48 2.48	.00 .00	.00 .00	.00 .00	-1.22 .00
391	1	21 42	.00 .00	-2.31 2.31	.00 .00	.00 .00	.00 .00	-2.15 1.01
392	1	42 63	.00 .00	-2.06 2.06	.00	.00 .00	.00 .00	-1.01 .00
	김 김 사람	10 A. 11 A.	and the first states of the		ta para anta Mira		이 집에서 집에 가지?	말 제 이 같은 것 같아요.

238. PLOT BEN FII	A A A A A A A A A A A A A A A A A A A				
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239. PLOT DISP FI					
240. START CON DE					den den service de la companya de la
241. FC 25000 242. CLEAR 0.065					
243. TRACK 1					te effe
244. MAXMAIN 25			at parties in a second		
245. DESIGN BEAM	141 TO 144 161	TO 164 251 T	O 254 261 TO 2	64	
BEAM	10.141 DES	IGN RES	ULTS - FL	EXURE	an a
LEN - 560. MM	FY - 414. FC	- 25. MPA,	SIZE - 493.	X 300.	MMS
LEVEL HEIGHT		FROM	то	DNC	JOB
(MM)	DAN LNCO	(MM)		ANCI STA	
	ta da serie de la composición de la co Esta de la composición			<u> </u>	
1 214.	2 - 16MM	0.	560.	YES	YES
CRITICAL NEG	MOMENT = 28 $367.MM2.ROW =$	.30 KN-MET A 0035. ROWMX	T = 0.MM, LC = 0194 ROWMN=	AD 1	} 1
MAX/MIN/ACTU					, 
BASIC/REQD. I	DEVELOPMENT LEN	GTH = 316./	478. MMS		l
					I
BEAMI	NO. 141 DES	IGN RES	ULTS-SHE	AR	
AT START SUPPOR	r - Vu= 18.31	KNS Vc= 8	5.80 KNS Vs=	.00	KNS
		E NOT REQUIRE			
AT END SUPPORT		KNS VC= 8 E NOT REOUIRE		.00	KNS
	ويراجز والمراجع والمراجع	ng dag Datawa Talawa			
	5	EOV 400V 000	and the second	and the second se	
148J		109X 492X 299			149J
148J		JOYX 492X 299			149J
					149J
		398 4928 299			149J
		398 4928 299			149J
		398 4928 299			1495
		398 4928 299			1495
					1495
		00		00	1495
2No16 H 214. 0			           2#16		1495
2No16 H 214. 0	.TO 560				
2No16 H 214. 0	.TO 560				1495
2No16 H 214. 0	.TO 560				1495
2No16 H 214. 0	.TO 560				1495
2No16 H 214. 0	.TO 560				149J
2No16 H 214. 0	.TO 560	00	         2#16         	00	1495
2No16 H 214. 0 2#16 B E A M 1	.TO 560	oo I G N R E S	         2#16                                     	oo .exure	
2No16 H 214. 0 2#16 B E A M 1	.TO 560	oo I G N R E S	         2#16                                     	oo .exure	
2No16 H 214. 0 2#16 B E A M H LEN - 560. MM	.TO 560	00 3 I G N R E S 2 - 25. MPA,	         2#16                                     	oo .exure X 300.	MMS
2No16 H 214. 0 2#16 B E A M 1	.TO 560	oo I G N R E S	         2#16                                     	oo .exure	MMS
2No16 H 214. 0 2#16 B E A M H LEN - 560. MM LEVEL HEIGHT	.TO 560	00 9 I G N R E S 2 - 25. MPA, FROM	         2#16                                     	oo .exure X 300. Anci	MMS
2No16 H 214. 0 2#16 B E A M H LEN - 560. MM LEVEL HEIGHT	.TO 560	00 9 I G N R E S 2 - 25. MPA, FROM	         2#16                                     	oo .exure X 300. Anci	MMS
2No16 H 214. 0 2#16 B E A M H LEN - 560. MM LEVEL HEIGHT	.TO 560	00 9 I G N R E S 2 - 25. MPA, FROM	         2#16                                     	oo .exure X 300. Anci	MMS HOR END
2No16 H 214. 0 00 2#16 B E A M H LEN - 560. MM LEVEL HEIGHT (MM)	.TO 560	00 3 I G N R E S 2 - 25. MPA, FROM (MM)	     2#16     2#16                                     	co .exure X 300. ANCI STA	MMS HOR END

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CRITICAL NEG MOMENT= 18.05 KN-MET AT 0.MM, LOAD 1 | REQD STEEL= 352.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 | MAX/MIN/ACTUAL BAR SPACING= 375./ 41./ 375. MMS BASIC/REQD. DEVELOPMENT LENGTH = 316./ 478. MMS BEAM NO. 142 DESIGN RESULTS - SHEAR 14.16 KNS Vc= 85.80 KNS Vs= .00 KNS AT START SUPPORT - Vu= STIRRUPS ARE NOT REQUIRED. SUPPORT - Vu= 14.16 KNS Vc= 85.80 KNS Vs= .00 KNS AT END STIRRUPS ARE NOT REQUIRED. 559X 492X 299 149J 150J 2No16 H 214. 0.TO 560 00 00 00 - 1 2#16 | | 2#16 1 2#16 1 1 BEAM NO. 143 DESIGN RESULTS - FLEXURE LEN - 560. MM FY - 414. FC - 25. MPA, SIZE - 493. X 300. MMS HEIGHT BAR INFO FROM TO ANCHOR LEVEL (MM) STA END (MM) (MM)214. 2 - 16MM 0. 560. YES YES 1 . ----1 CRITICAL NEG MOMENT= 10.12 KN-MET AT 0.MM, LOAD 1 | REQD STEEL= 352.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 | MAX/MIN/ACTUAL BAR SPACING= 375./ 41./ 375. MMS | BASIC/REOD. DEVELOPMENT LENGTH = 316./ 478. MMS BEAM NO. 143 DESIGN RESULTS - SHEAR AT START SUPPORT – Vu=7.13 KNS Vc= 85.80 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. SUPPORT - Vu= 7.13 KNS Vc= 85.80 KNS Vs= .00 KNS AT END STIRRUPS ARE NOT REQUIRED. i 151J 559X 492X 299\_\_\_ 150J 2No16 H 214. 0.TO 560

2#16	00	     2#16			2#16	00	
					2#10		
							· · ·
	BEAM NO	. 144 DE	SIGN RI	ESULTS	- FLEXU	URE	
LEN -	560. MM FY	- 414. F	C → 25. M	PA, SIZE -	493. X	300.	MMS
LEVEL	HEIGHT (MM)	BAR INFO	FROM (MM)	ТО (MM)		ANCH STA	OR END
1	214.	2 - 16MM	0.	560		YES	YES
I REQ I MAX	TICAL NEG MON D STEEL= 3 /MIN/ACTUAL 1 IC/REQD. DEVI	52.MM2, ROW BAR SPACING	= .0033, ROM = 375./	MX= .0194   41./ 375.	ROWMN= .( MMS	1   0033     	
	врам и о	144 D F	STGNB	ESULTS	- SHEAR		
	RT SUPPORT -	Vu= 7.9 STIBRIIPS A	2 KNS VC=	85.80 KNS		.00	n an Agina
	RT SUPPORT -	Vu= 7.9 STIRRUPS A Vu= 7.9	2 KNS VC=	85.80 KNS IRED. 85.80 KNS		.00	n an Agina
AT END	RT SUPPORT -	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU	85.80 KNS IRED. 85.80 KNS IRED.	Vs=	.00	KNS
AT END 151J	RT SUPPORT - SUPPORT -	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU	85.80 KNS IRED. 85.80 KNS IRED.	Vs=	.00	KNS
AT END 151J	RT SUPPORT - SUPPORT -	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU	85.80 KNS IRED. 85.80 KNS IRED.	Vs=	.00	KNS
AT END 151J	RT SUPPORT - SUPPORT -	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU	85.80 KNS IRED. 85.80 KNS IRED.	Vs=	.00	KNS
AT END 151J	RT SUPPORT - SUPPORT -	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU	85.80 KNS IRED. 85.80 KNS IRED.	Vs=	.00	KNS
AT END 151J 2No16 H	RT SUPPORT - SUPPORT -	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A 	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU 559X 492X	85.80 KNS IRED. 85.80 KNS IRED. 299	Vs=	.00	KNS
AT END 151J	RT SUPPORT - SUPPORT - 214. 0.TO	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU 559X 492X	85.80 KNS IRED. 85.80 KNS IRED. 299	Vs=	.00	KNS
AT END 151J 2No16 H	RT SUPPORT - SUPPORT - 214. 0.TO	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A 	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU 559X 492X	85.80 KNS IRED. 85.80 KNS IRED. 299	Vs=	.00	KNS
AT END 151J 2No16 H	RT SUPPORT - SUPPORT - 214. 0.TO	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A 	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU 559X 492X	85.80 KNS IRED. 85.80 KNS IRED. 299	Vs=	.00	KNS
AT END 151J 2N016 H 2#16	RT SUPPORT - SUPPORT - 214. 0.TO	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A 560 560	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU 559X 492X	85.80 KNS IRED. 299	Vs= 2#16	• 00	KNS
AT END 151J 2N016 H 2#16	RT SUPPORT - SUPPORT - 214. 0.TO	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A 560 560 1 1 1 1 1 2#16 1 1 1 1 1 1 1 1 1 2#16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU 559X 492X	85.80 KNS IRED. 95.90 KNS IRED. 299             	Vs= 2#16 - FLEX(	• 00	KNS 152J
AT END 151J 2No16 H 2#16	RT SUPPORT - SUPPORT - 214. 0.TO 00 8 E A M N O 560. MM FY	Vu= 7.9 STIRRUPS A Vu= 7.9 STIRRUPS A 560 560 1 1 1 1 1 2#16 1 1 1 1 1 1 1 1 1 2#16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 KNS VC= RE NOT REQU 2 KNS VC= RE NOT REQU 559X 492X	85.80 KNS IRED. 95.90 KNS IRED. 299             	Vs= 2#16 - FLEX(	00 00 JRE 300.	KNS 152J

CRITICAL NEG MOMENT= 23.55 KN-MET AT 0.MM, LOAE REQD STEEL= 352.MM2, ROW= .0033, ROWMX= .0194 ROWMN= . MAX/MIN/ACTUAL BAR SPACING= 375./ 41./ 375. MMS BASIC/REQD. DEVELOPMENT LENGTH = 316./ 478. MMS		
BEAM NO. 161 DESIGN RESULTS - SHEAF	• • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·
AT START SUPPORT - Vu= 9.87 KNS Vc= 85.80 KNS Vs= STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 9.87 KNS Vc= 85.80 KNS Vs= STIRRUPS ARE NOT REQUIRED.		
_ 169J559X 492X 299		L70J_
No16 H 214. 0.TO 560		
00     00	00	
#16     2#16     2#16     2#16     2#16       2#16       2#16       2#16       2#16		
BEAM NO. 162 DESIGN RESULTS - FLE		MMC
		OR
	300. ANCH STA	OR
Image:	300. ANCH STA YES   D 1	OR END
Image:	300. ANCH STA YES .0033   .0033   .0033   .0033	OR END
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	300. ANCH STA YES D 1 1 .0033 1 .0033 1 .0033 1 .0033 1 .00	OR END YES
B E A M N O. 162 D E S I G N R E S U L T S - FLE EN - 560. MM FY - 414. FC - 25. MPA, SIZE - 493. X EVEL HEIGHT BAR INFO FROM TO (MM) (MM) (MM) 1 214. 2 - 16MM 0. 560. CRITICAL NEG MOMENT= 18.02 KN-MET AT 0.MM, LOA REQD STEEL= 352.MM2, ROW= .0033, ROWMX= .0194 ROWMN= MAX/MIN/ACTUAL BAR SPACING= 375./ 41./ 375. MMS BASIC/REQD. DEVELOPMENT LENGTH = 316./ 478. MMS BASIC/REQD. DEVELOPMENT LENGTH = 316./ 478. MMS BE A M N O. 162 D E S I G N R E S U L T S - SHEA AT START SUPPORT - Vu= 12.16 KNS Vc= 85.80 KNS Vs= STIRRUPS ARE NOT REQUIRED.	300. ANCH STA YES .0033   .0033   .0033   .0033   .00 .00	OR END YES

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BEAM NO. 163 DESIGN RESULTS - FLEXURE

LEN - 560. MM	FY - 414.	FC - 25.	MPA, SIZE -	493.X 300.	MMS
LEVEL HEIGHT (MM)	BAR INF	O FROM (MM)	TO (MM)	ANC STA	HOR END
1 214.	2 - 16M	м 0.	560	. YES	YES

	1 214. 2 - 16MM 0. 560. YES	YES
	CRITICAL NEG MOMENT= 11.21 KN-MET AT 0.MM, LOAD 1	l. I
I	REQD STEEL= 352.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033	i - 1
ł	MAX/MIN/ACTUAL BAR SPACING= 375./ 41./ 375. MMS	
ł	BASIC/REQD. DEVELOPMENT LENGTH = 316./ 478. MMS	1
ļ	***************************************	1

BEAM NO. 163 DESIGN RESULTS - SHEAR

AT START SUPPORT - Vu= 4.39 KNS Vc= 85.80 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 4.39 KNS Vc= 85.80 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED.

171J_			559X 4	92X 299			172J
1 1 1							
====================================	214. 0.ТО	560			 	100040	
l I series series							

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다 이 집중 같은 것 같은 것 같은 것이다.		1. 网络美国美国美国美国美国美国

BEAM NO. 164 DESIGN RESULTS - FLEXURE

LEN	- 5	560. MM	FY -	414.	FC -	25.	MPA,	SIZE -	493. 2	x 300.	MMS
LEV	EL	HEIGHT (MM)	BA	R INFO		FROM (MM)		TO (MM)		ANC STA	HOR END
1		214.	2	- 16MM		0.		560		YES	YES

			GTH = 31	6./ 478. №	ims 	
ΒE	AM NO.	164 DES	IGNR	ESULTS	- SHEAR	
	SUPPORT -	STIRRUPS AP	E NOT REQU KNS Vc=	85.80 KNS		
172J			59X 492X	299		173J
	4. 0.то					
	0		00		00	
2#16		2#16 		· · · · · · · · · · · · · · · · · · ·	2#16	
		s i i se si i		9 N. (		
8 E	AM NO.	251 D E S	SIGNR	ESULTS	- FLEXURE	
JEN - 49 JEVEL H	3. MM FY		C - 25. M	E S U L T S IPA, SIZE - TO (MM)	560.X 30 A	
LEN - 49 LEVEL H	3. MM FY Eight (MM)	- 414. FC BAR INFO	C - 25. M FROM (MM)	IPA, SI2E - To (MM)	560. X 30 A ST	0. MMS NCHOR
JEN - 49 LEVEL H 1 CRITIC REQD S MAX/MI	3. MM FY EIGHT (MM) 216. AL NEG MOM TEEL= S1 N/ACTUAL E	- 414. FC BAR INFO 5 - 12MM HENT= 39 4.MM2, ROW AR SPACING	<ul> <li>25. M</li> <li>FROM (MM)</li> <li>0.</li> <li>0.69 KN-MET</li> <li>0042, RC</li> <li>446./</li> </ul>	IPA, SIZE - To	560. X 30 A ST YE MM, LOAD ROWMN= .003 MMS	0. MMS NCHOR A END S YES 1 1 1
JEN - 49 JEVEL H 1 CRITIC REQD S MAX/MI BASIC/	3. MM FY EIGHT (MM) 216. AL NEG MOM TEEL= S1 N/ACTUAL E REQD. DEVE	- 414. FC BAR INFO 5 - 12MM ENT= 39 4.MM2, ROW- AR SPACING- COPMENT LEN	<ul> <li>25. M</li> <li>FROM (MM)</li> <li>0.</li> <li>0.69 KN-MET</li> <li>0.0042, RC</li> <li>446./</li> <li>NGTH = 17</li> </ul>	IPA, SIZE - TO (MM) 493 C AT 0.1 DWMX= .0194 37./ 112.	560. X 30 A ST YE MM, LOAD ROWMN= .003 MMS MMS	0. MMS NCHOR A END S YES 1 1 1
JEN - 49 JEVEL H 1 CRITIC REQD S MAX/MI BASIC/ BASIC/ BASIC/	3. MM FY EIGHT (MM) 216. AL NEG MOM TEEL= S1 N/ACTUAL E REQD. DEVE A M N O. SUPPORT -	- 414. FO BAR INFO 5 - 12MM EENT= 34 4.MM2, ROW AR SPACING LOPMENT LEI 251 D E 251 D E Vu= 42.5 PROVIDE 12	<ul> <li>25. M</li> <li>FROM (MM)</li> <li>0.</li> <li>0.69 KN-MET</li> <li>.0042, RC</li> <li>446./</li> <li>NGTH = 17</li> <li>SIGN R</li> <li>SIGN R</li> <li>0 KNS VC=</li> <li>MM BARS AT</li> </ul>	IPA, SIZE - TO (MM) 493 C AT 0.1 WMX= .0194 37./ 112. 77./ 359.1 E S U L T S 97.46 KNS F 105. MM C	560. X 30 A ST YE MM, LOAD ROWNN= .003 MMS MMS - SHEAR VS= . /C FOR 493	0. MMS NCHOR A END 
JEN - 49 JEVEL H 1 CRITIC REQD S MAX/MI BASIC/ BASIC/ BASIC/	3. MM FY EIGHT (MM) 216. AL NEG MOM TEEL= S1 N/ACTUAL E REQD. DEVE A M N O. SUPPORT - SUPPORT -	- 414. FO BAR INFO 5 - 12MM EENT= 34 4.MM2, ROW AR SPACING LOPMENT LEN 251 D E 251 D E Vu= 42.5 PROVIDE 12 Vu= 42.5 PROVIDE 12	<ul> <li>25. M</li> <li>FROM (MM)</li> <li>0.</li> <li>0.69 KN-MET</li> <li>.0042, RC</li> <li>446./</li> <li>NGTH = 17</li> <li>SIGN R</li> <li>SIGN R</li> <li>0 KNS VC=</li> <li>MM BARS AT</li> <li>0 KNS VC=</li> </ul>	IPA, SIZE - TO (MM) 493 2 AT 0.0 37./ 112. 77./ 359. 1 2 S U L T S 97.46 KNS 1 105. MM C 97.46 KNS 1 105. MM C	560. X 30 A ST YE MM, LOAD ROWMN= .003 MMS MMS - SHEAR VS= . /C FOR 493 VS= .	0. MMS NCHOR A END 
JEN - 49 JEVEL H 1 CRITIC REQD S MAX/MI BASIC/ BASIC/ 	3. MM FY EIGHT (MM) 216. AL NEG MOM TEEL= S1 N/ACTUAL E REQD. DEVE A M N O. SUPPORT - SUPPORT -	- 414. FO BAR INFO 5 - 12MM EENT= 34 4.MM2, ROW AR SPACING LOPMENT LEN 251 D E 251 D E Vu= 42.5 PROVIDE 12 Vu= 42.5 PROVIDE 12	<ul> <li>25. M</li> <li>FROM (MM)</li> <li>0.</li> <li>0.69 KN-MET</li> <li>0.042, RC</li> <li>446./</li> <li>NGTH = 17</li> <li>SIGN R</li> <li>SIGN R</li> <li>0 KNS VC=</li> <li>MM BARS AT</li> <li>0 KNS VC=</li> <li>MM BARS AT</li> </ul>	IPA, SIZE - TO (MM) 493 2 AT 0.0 37./ 112. 77./ 359. 1 2 S U L T S 97.46 KNS 1 105. MM C 97.46 KNS 1 105. MM C	560. X 30 A ST YE MM, LOAD ROWMN= .003 MMS MMS - SHEAR VS= . /C FOR 493 VS= .	0. MMS NCHOR A END 

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	la strategi teknik par h	
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BEAM NO. 252 DESIGN RESULTS - FLEXURE

1945 (M		FROM (MM)	TO (MM)	ANC	CHOR
1	214. 2 - 16MM	0.	493	. YES	YES
	CRITICAL NEG MOMENT= 18.74 REQD STEEL= 400.MM2, ROW= 0 MAX/MIN/ACTUAL BAR SPACING= BASIC/REQD. DEVELOPMENT LENGTH	033, ROWMX 442./ 41	= 0194 / 442	MM, LOAD 1 ROWMN= .0033 MMS	

BEAM NO. 252 DESIGN RESULTS - SHEAR

AT START SUPPORT -	Vu= 27.74 KNS	Vc= 97.46 KNS	Vs= .00 KNS
	STIRRUPS ARE NOT	REQUIRED.	
AT END SUPPORT -	Vu= 27.74 KNS	Vc= 97.46 KNS	Vs= .00 KNS
	STIRRUPS ARE NOT	REQUIRED.	

28J	492X	559X 299	and a star fragmentation of the	49J
2No16 H 214. 0.то 493				

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2#16	2#16	2#16
	FT 金属 法法律 法法法 法主	

BEAM NO. 253 DESIGN RESULTS - FLEXURE

	LEN	<u>-</u> 1	492.	MM	FY	- 4	14.	FĊ	<u> </u>	25.	MPA,	SIZE -	560. 2	x 300.	MMS
è.	114	e de la						•					e de la composition d La composition de la c		n an
	LEVE	L .	HEI	GHT		BAR	INFO	9 J		FROM		TO		ANCI	IOR
1	19.4	10.0	(M	M) 😳						(MM)		(MM)		STA	END
						e veli	a de Ca			18 N.		<u> </u>			et di sita

1 86. 2 - 16MM 0. 492. YES YES

CRITICAL POS MOMENT= 2.87 KN-MET AT 492.MM, LOAD 1	
REQD STEEL= 400.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033   MAX/MIN/ACTUAL BAR SPACING= 442./ 41./ 442. MMS BASIC/REQD. DEVELOPMENT LENGTH = 316./ 476. MMS	
2 214. 2 - 16MM 0. 492. YES	YES
CRITICAL NEG MOMENT= 5.07 KN-MET AT 0.MM, LOAD 1   REQD STEEL= 400.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033   MAX/MIN/ACTUAL BAR SPACING= 442./ 41./ 442. MMS   BASIC/REQD. DEVELOPMENT LENGTH = 316./ 478. MMS	
BEAMNO. 253 DESIGNRESULTS - SHEAR	
AT START SUPPORT - Vu= 16.13 KNS Vc= 97.46 KNS Vs= .00 STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 16.13 KNS Vc= 97.46 KNS Vs= .00 STIRRUPS ARE NOT REQUIRED.	
49J491X_559X_299	70J
2No16 H 286. 0.TO 492	
2#16   2#16   2#16   2#16   00   1 00	
na de la compositiva de la compositiva Angle de la compositiva de la compositi	
BEAM NO. 254 DESIGN RESULTS – FLEXURE	
LEN - 492. MM FY - 414. FC - 25. MPA, SIZE - 560. X 300.	MMS
LEVEL HEIGHT BAR INFO FROM TO ANCI (MM) (MM) (MM) STA	IOR END
1 86. 2 - 16MM 0. 492. YES	YES
CRITICAL POS MOMENT= 6.61 KN-MET AT 492.MM, LOAD 1 REQD STEEL= 400.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 MAX/MIN/ACTUAL BAR SPACING= 442./ 41./ 442. MMS BASIC/REQD. DEVELOPMENT LENGTH = 316./ 476. MMS	
BEAM NO. 254 DESIGN RESULTS-SHEAR	
AT START SUPPORT - Vu= 7.61 KNS Vc= 97.46 KNS Vs= .00 STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 7.61 KNS Vc= 97.46 KNS Vs= .00	클릭 소리가.

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	86. 0.TC	) 492		*******				
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	BEAM NO	ם 261 ח	FSICA	I D P Q			VUDP	
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len -	493 MM FY	(- 414.	FC - 2	5. MPA,	SIZE -	560. >	c 300.	MMS
LEVEL	HEIGHT (MM)	BAR INFO	) F1	ROM	то		ANC	IOR
	(MM)		1 1 1	4M)	(MM)		STA	END
I REQ	216. TICAL NEG MO D STEEL=	DMENT= 511.MM2, F	39.49 Ki OW= .004	N-MET AT 2, ROWMX-	c 0. = .0194	MM, LOA ROWMN=	AD 1	
   CRI   REQ   MAX	TICAL NEG MO	DMENT= 511.MM2, F BAR SPACI	39.49 Ki OW= .004 NG= 44	N-MET AT 2, ROWMX= 6./ 37	r 0. = .0194 ./ 112.	MM, LOA ROWMN= MMS	AD 1	
   CRI   REQ   MAX	TICAL NEG MO D STEEL= S /MIN/ACTUAL	DMENT= 511.MM2, F BAR SPACI	39.49 Ki OW= .004 NG= 44	N-MET AT 2, ROWMX= 6./ 37	r 0. = .0194 ./ 112.	MM, LOA ROWMN= MMS	AD 1	
   CRI   REQ   MAX   BAS 	TICAL NEG MO D STEEL= S /MIN/ACTUAL IC/REQD. DEV	DMENT= 511.MM2, F BAR SPACI /ELOPMENT	39.49 KI .OW= .004 NG= 44 LENGTH =	N-MET A1 2, ROWMX- 5./ 37 177./	r 0. = .0194 ./ 112. 359.	MM, LOA ROWMN= MMS MMS	AD 1 .0033	
   CRI   REQ   MAX   BAS 	TICAL NEG MO D STEEL= S /MIN/ACTUAL	DMENT= 511.MM2, F BAR SPACI /ELOPMENT	39.49 KI .OW= .004 NG= 44 LENGTH =	N-MET A1 2, ROWMX- 5./ 37 177./	r 0. = .0194 ./ 112. 359.	MM, LOA ROWMN= MMS MMS	AD 1 .0033	
   CRI   REQ   MAX   BAS	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N C	DMENT= 511.MM2, F BAR SPACI /ELOPMENT D. 261 D	39.49 KN OW= .004 NG= 44 LENGTH = E S I G N	N-MET A: 2, ROWMX- 5./ 37 177./ N RES	r 0. 0194 -/ 112. 359. U L T S	MM, LOA ROWMN= MMS MMS S - SHEA	AD 1 .0033	
   CRI   REQ   MAX   BAS 	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N C ART SUPPORT -	DMENT= 511.MM2, F BAR SPACI /ELOPMENT D. 261 D - Vu= 40 STIRRUPS	39.49 Kl OW= .004 NG= 44 LENGTH = E S I G H .33 KNS ARE NOT	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S Vc= 9' REQUIRE	r 0.194 = .0194 / 112. 359. U L T S 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS 	TICAL NEG MO D STEEL= S /MIN/ACTUAL SIC/REQD. DEV B E A M N C RT SUPPORT	DMENT= 511.MM2, F BAR SPACI /ELOPMENT D. 261 D - Vu= 40 STIRRUPS - Vu= 40	39.49 KN OW= .004 NG= 44 LENGTH = E S I G N .33 KNS ARE NOT .33 KNS	N-MET A 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREN VC= 9'	C 0.194 = .0194 / 112. 359. U L T S 7.46 KNS 0. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N ( ART SUPPORT - ) SUPPORT -	DMENT= 511.MM2, P BAR SPACI /ELOPMENT D. 261 D - Vu= 40 STIRRUPS - Vu= 40 STIRRUPS	39.49 Kl OW= .004 NG= 44 LENGTH = E S I G H .33 KNS ARE NOT .33 KNS ARE NOT	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N C ART SUPPORT -	DMENT= 511.MM2, P BAR SPACI /ELOPMENT D. 261 D - Vu= 40 STIRRUPS - Vu= 40 STIRRUPS	39.49 KN OW= .004 NG= 44 LENGTH = E S I G N .33 KNS ARE NOT .33 KNS	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
CRI REQ MAX BAS AT STA	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N ( ART SUPPORT - ) SUPPORT -	DMENT= 511.MM2, P BAR SPACI /ELOPMENT D. 261 D - Vu= 40 STIRRUPS - Vu= 40 STIRRUPS	39.49 Kl OW= .004 NG= 44 LENGTH = E S I G H .33 KNS ARE NOT .33 KNS ARE NOT	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA AT END	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N ( ART SUPPORT - SUPPORT -	DMENT= 511.MM2, P BAR SPACI /ELOPMENT D. 261 D O. 261 D STIRRUPS - Vu= 40 STIRRUPS	39.49 Kl OW= .004 NG= 44 LENGTH = E S I G H .33 KNS ARE NOT .33 KNS ARE NOT	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA AT END	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N ( ART SUPPORT - ) SUPPORT -	DMENT= 511.MM2, P BAR SPACI /ELOPMENT D. 261 D O. 261 D STIRRUPS - Vu= 40 STIRRUPS	39.49 Kl OW= .004 NG= 44 LENGTH = E S I G H .33 KNS ARE NOT .33 KNS ARE NOT	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA AT END	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N ( ART SUPPORT - SUPPORT -	DMENT= 511.MM2, P BAR SPACI /ELOPMENT D. 261 D O. 261 D STIRRUPS - Vu= 40 STIRRUPS	39.49 Kl OW= .004 NG= 44 LENGTH = E S I G H .33 KNS ARE NOT .33 KNS ARE NOT	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA AT END	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N ( ART SUPPORT - SUPPORT -	DMENT= 511.MM2, P BAR SPACI /ELOPMENT D. 261 D O. 261 D STIRRUPS - Vu= 40 STIRRUPS	39.49 Kl OW= .004 NG= 44 LENGTH = E S I G H .33 KNS ARE NOT .33 KNS ARE NOT	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA AT END	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N ( ART SUPPORT - SUPPORT -	DMENT= 511.MM2, P BAR SPACI /ELOPMENT D. 261 D O. 261 D STIRRUPS - Vu= 40 STIRRUPS	39.49 Kl OW= .004 NG= 44 LENGTH = E S I G H .33 KNS ARE NOT .33 KNS ARE NOT	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA AT END	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N ( ART SUPPORT - SUPPORT -	DMENT= 511.MM2, P BAR SPACI /ELOPMENT D. 261 D O. 261 D STIRRUPS - Vu= 40 STIRRUPS	39.49 Kl OW= .004 NG= 44 LENGTH = E S I G H .33 KNS ARE NOT .33 KNS ARE NOT	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA AT END 8J 5No12 H	TICAL NEG MO D STEEL= 5 /MIN/ACTUAL SIC/REQD. DEV B E A M N ( ART SUPPORT - SUPPORT -	DMENT= 511.MM2, P BAR SPACI /ELOPMENT 0. 261 D Vu= 40 STIRRUPS Vu= 40 STIRRUPS 0 493	39.49 KI OW= .004 NG= 44 LENGTH = E S I G I .33 KNS ARE NOT .33 KNS ARE NOT 492X 5	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI 59X 299	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA AT END 8J 5No12 H	TICAL NEG MO D STEEL= 5 (MIN/ACTUAL IC/REQD. DEV B E A M N ( RT SUPPORT - ) SUPPORT - 1 216. 0.TO	DMENT= 511.MM2, P BAR SPACI /ELOPMENT 0. 261 D Vu= 40 STIRRUPS Vu= 40 STIRRUPS 0 493	39.49 Kl OW= .004 NG= 44 LENGTH = E S I G H .33 KNS ARE NOT .33 KNS ARE NOT 492X 5	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI 59X 299	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOX ROWMN= MMS MMS 3 - SHEA	AD 1 .0033 AR .00	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA AT END 8J 5No12 H	TICAL NEG MO D STEEL= 5 (MIN/ACTUAL IC/REQD. DEV B E A M N ( RT SUPPORT - ) SUPPORT - 1 216. 0.TO	DMENT= 511.MM2, P BAR SPACI /ELOPMENT 0. 261 D Vu= 40 STIRRUPS Vu= 40 STIRRUPS 0 493	39.49 KI OW= .004 NG= 44 LENGTH = E S I G I .33 KNS ARE NOT .33 KNS ARE NOT 492X 5	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI 59X 299	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOA ROWMN= MMS MMS 3 - SHEA 3 Vs= 5 Vs=	AD 1 .0033 AR .00	KNS
   CRI   REQ   MAX   BAS   AT STA AT STA AT END 8J 5No12 H	TICAL NEG MO D STEEL= 5 (MIN/ACTUAL IC/REQD. DEV B E A M N ( RT SUPPORT - ) SUPPORT - 1 216. 0.TO	DMENT= 511.MM2, P BAR SPACI /ELOPMENT 0. 261 D Vu= 40 STIRRUPS Vu= 40 STIRRUPS 0 493	39.49 KI OW= .004 NG= 44 LENGTH = E S I G I .33 KNS ARE NOT .33 KNS ARE NOT 492X 5	N-MET A: 2, ROWMX- 5./ 37 177./ N R E S VC= 9' REQUIREI VC= 9' REQUIREI 59X 299	r 0. = .0194 ./ 112. 359. U L T S 7.46 KNS D. 7.46 KNS	MM, LOA ROWMN= MMS MMS 3 - SHEA 3 Vs= 5 Vs=	AD 1 .0033 AR .00	KNS

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VEL	HEIGHT	BAR INFO	FROM	то	ANCH	OR
	(MM)		(MM)		STA	
1		2 - 16MM	1997 - 19	493.	YES	IES
REQI MAX	) STEEL= /MIN/ACTUAI	400.MM2, ROW BAR SPACING				
Ĩ	BEAM N	O. 262 D E	SIGN RES	SULTS-SHI	CAR	
		STIRRUPS A	RE NOT REQUIRE	97.46 KNS Vs= D. 97.46 KNS Vs=		14.2
line en en en genere generen			RE NOT REQUIRE			
29J			492X 559X 299	<b>)</b>	201721-11121 	503
	00		00		00	
	00	     2#16     2 	00	2#16	õõ	
#16	BEAMN	0. 263 DE	5 SIGNRE	         SULTS-F	LEXURE	
#16 EN -	B E A M N 492. MM	0. 263 D E	00 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	         S U L T S - F , SIZE - 560.	LEXURE X 300.	e en en Ligton
#16 EN -	B E A M N 492. MM	0. 263 DE	5 SIGNRE	         SULTS-F	LEXURE	HOR
di sa sa	BEAM N 492. MM HEIGHT	0. 263 D E	oo 5 S I G N R E FC - 25. MPA FROM	         S U L T S - F , SIZE - 560. TO	LEXURE X 300. ANCH	HOR END
#16 EN - EVEL 1 CRI REC MAS	B E A M N 492. MM HEIGHT (MM) 86. LTICAL POS 2D STEEL= 4/MIN/ACTUP	<pre>   0. 263 D E  FY - 414.   BAR INFO  2 - 16MM  2 - 16MM MOMENT= 400.MM2, ROM AL BAR SPACING </pre>	00 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	         S U L T S - F , SIZE - 560. TO (MM) 492. AT 492.MM, I X= .0194 ROWMN 1./ 442. MMS	LEXURE X 300. ANC: STA YES .OAD 1	HOR END YES
#16 EN - EVEL 1 CRI REC MAS	B E A M N 492. MM HEIGHT (MM) 86. LTICAL POS 2D STEEL= 4/MIN/ACTUP	C. 263 D E FY - 414. H BAR INFO 2 - 16MM MOMENT= 400.MM2, ROM L BAR SPACING DEVELOPMENT L	00 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	         S U L T S - F , SIZE - 560. TO (MM) 492. AT 492.MM, I X= .0194 ROWM 1./ 442. MMS / 476. MMS	LEXURE X 300. ANC: STA YES .OAD 1	HOR END YES

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	O, 263 DESIGN RESULTS - SHEAD	and the second
	<ul> <li>Vu= 15.02 KNS Vc= 97.46 KNS Vs= STIRRUPS ARE NOT REQUIRED.</li> <li>Vu= 15.02 KNS Vc= 97.46 KNS Vs= STIRRUPS ARE NOT REQUIRED.</li> </ul>	
50J	491X 559X 299	71J
2No16 H 286. 0.TC		================
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00 2#16	2#16   2#16	00
00	ingen III en solle en <b>oc</b> ologie de la serie III en series. Na serie III en series de la serie de l	00   
	senie († 1919) se de la construir de la constru La construir de la construir de La construir de la construir de	
	0.264 DESIGN RESULTS - FLE: Y - 414. FC - 25. MPA, SIZE - 560.X	
		ANCHOR
(MM)	(MM) (MM)	STA END
1		YES YES
CRITICAL POS MG   REQD STEEL=   MAX/MIN/ACTUAL	2 - 16MM 0. 492. OMENT= 4.20 KN-MET AT 492.MM, LOA 400.MM2, ROW= .0033, ROWMX= .0194 ROWMN= BAR SPACING= 442./ 41./ 442. MMS VELOPMENT LENGTH = 316./ 476. MMS	D 1
CRITICAL POS MG   REQD STEEL=   MAX/MIN/ACTUAL	OMENT= 4.20 KN-MET AT 492.MM, LOA 400.MM2, ROW= .0033, ROWMX= .0194 ROWMN= BAR SPACING= 442./ 41./ 442. MMS	D 1
CRITICAL POS MG   REQD STEEL=   MAX/MIN/ACTUAL   BASIC/REQD. DEV	OMENT= 4.20 KN-MET AT 492.MM, LOA 400.MM2, ROW= .0033, ROWMX= .0194 ROWMN= BAR SPACING= 442./ 41./ 442. MMS	D 1 .0033 .
CRITICAL POS MG REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DEV BEAM NG	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 DESIGN RESULTS-SHEAD         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=	D 1   .0033   
CRITICAL POS MG   REQD STEEL=   MAX/MIN/ACTUAL   BASIC/REQD. DEV 	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 D E S I G N R E S U L T S - SHEA         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.       - Vu=       7.16 KNS Vc=       97.46 KNS Vs=	D 1   .0033   .0038   
CRITICAL POS MG   REQD STEEL=   MAX/MIN/ACTUAL   BASIC/REQD. DEV 	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 D E S I G N R E S U L T S - SHEA         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.	D 1   .0033   .0038   
CRITICAL POS MG   REQD STEEL=   MAX/MIN/ACTUAL   BASIC/REQD. DEV 	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 D E S I G N R E S U L T S - SHEAI         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.	D 1 .0033 R .00 KNS .00 KNS
CRITICAL POS MG   REQD STEEL=   MAX/MIN/ACTUAL   BASIC/REQD. DEV 	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 D E S I G N R E S U L T S - SHEAI         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         491X 559X 299	D 1 .0033 R .00 KNS .00 KNS
CRITICAL POS MO   REQD STEEL=   MAX/MIN/ACTUAL   BASIC/REQD. DEV   BE A M N O AT START SUPPORT AT END SUPPORT 71J	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 D E S I G N R E S U L T S - SHEAI         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         491X 559X 299	D 1 .0033 R .00 KNS .00 KNS
CRITICAL POS MG REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DEV BEAM NG AT START SUPPORT AT END SUPPORT 71J 2No16 H 86. 0.TG	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 D E S I G N R E S U L T S - SHEAI         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         491X 559X 299	D 1 .0033 R .00 KNS .00 KNS
CRITICAL POS MG REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DEV BEAM NG AT START SUPPORT AT END SUPPORT 71J 2No16 H 86. 0.TG	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 D E S I G N R E S U L T S - SHEAI         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         491X 559X 299	D 1 .0033 R .00 KNS .00 KNS
CRITICAL POS MG REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DEV BEAM NG AT START SUPPORT AT END SUPPORT 71J 2No16 H 86. 0.TG	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 D E S I G N R E S U L T S - SHEAT         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.       - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.       - 491X 559X 299       491X 559X 299       -         0       492       -       -       -	D 1 .0033 R .00 KNS .00 KNS
CRITICAL POS MG REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DEV BEAM NG AT START SUPPORT AT END SUPPORT 71J 2No16 H 86. 0.TG	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 D E S I G N R E S U L T S - SHEAI         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.         491X 559X 299	D 1 .0033 R .00 KNS .00 KNS
CRITICAL POS MG REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DEY BEAM NG AT START SUPPORT AT END SUPPORT 71J 2No16 H 86. 0.TG	OMENT=       4.20 KN-MET AT 492.MM, LOA         400.MM2, ROW=       .0033, ROWMX=       .0194 ROWMN=         BAR SPACING=       442./       41./       442. MMS         VELOPMENT LENGTH =       316./       476. MMS         0. 264 D E S I G N R E S U L T S - SHEAT         - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.       - Vu=       7.16 KNS Vc=       97.46 KNS Vs=         STIRRUPS ARE NOT REQUIRED.       - 491X 559X 299       491X 559X 299       -         0       492       -       -       -         1       1       1       1       1         2       -       -       -       -       -         491X 559X 299       -       -       -       -         0       492       -       -       -       -         1       1       1       1       1       -         1       2       1       1       1       1       -	D 1 .0033 R .00 KNS .00 KNS .00 KNS

246. END CON DESIGN 247. FINISH

\*\*\*\* DATE= JAN 30,2000 TIME= 9:18: 7 \*\*\*\*