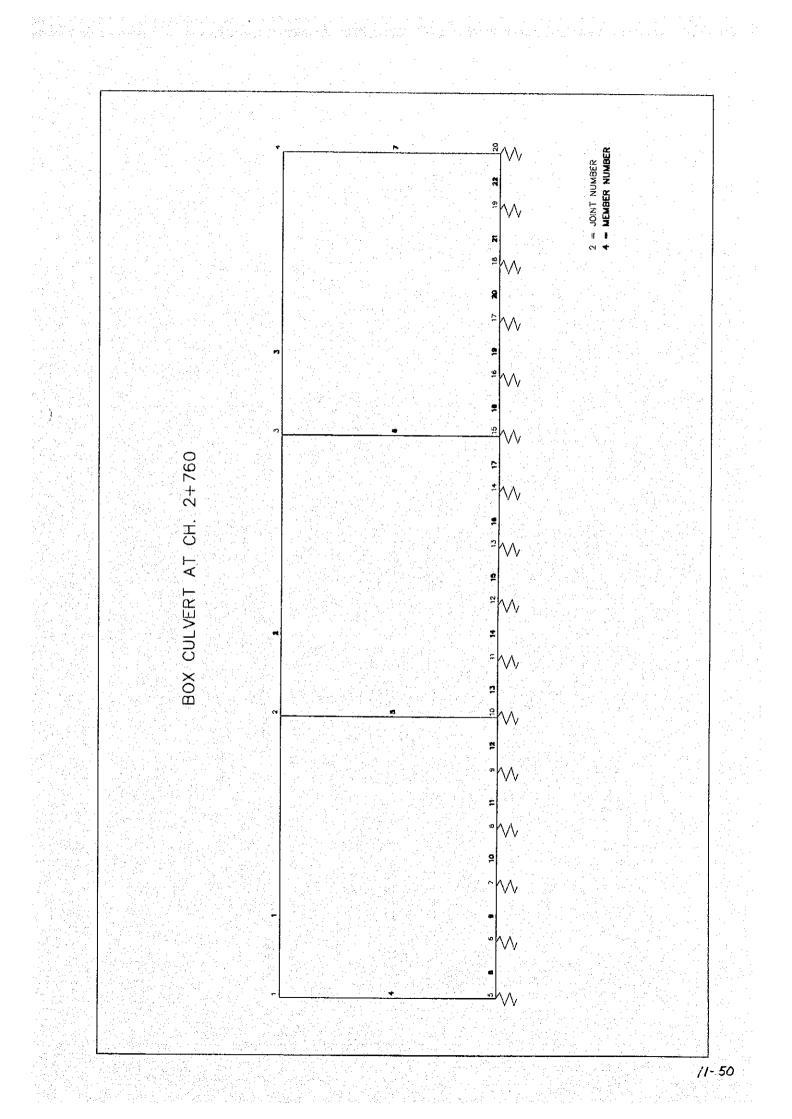
2-1-2 BOX CULVERT AT CH.3+760 (1) BOX CULVERT





BOX CULVERT AT CH. 2+760 (BOX)

STAAD-III Revision 22.3a Proprietary Program of Research Engineers, Inc. Date≕ JAN 30, 2000 10:19:34 Time= USER ID: Development Design Consultants L 1. STAAD PLANE DESIGN OF BOX CULVERT AT CH. 2+760 (3 X 2.5 X 2.0) 2. UNIT METER KNS 3. PAGE EJE 4. JOINT COORD 1 0.00 2.25 0.00 5. 2.25 0.00 6. 2 2.83 0.00 2.25 7. 3 5.65 2.25 8.48 0.00 8. 4 10 5 0.00 2.83 0.00 0.00 0.00 0.00 9. 10. 11 3.39 0.00 5.65 0.00 0.00 15 0.00 8.48 0.00 0.00 20 11. 16 6.22 0.00 0.00 12. MEMBER INCI 2 13. 1 1 3 .5 14. ... 4 1 15. 5 2 103 15 16. 6 20 17. 7 4 18. . <u>8</u> 5 6 22 19. MEMBER PROPERTY 0.250 ZD 1.0 20. 1 TO 3 PRIS YD PRIS Ϋ́D 0.250 ZD 1.0 21.47 0.250 ZD 1.0 22.56 PRIS. ΥÐ 23. 8 TO 22 PRIS YD 0.250 ZD 1.0 24. CONSTANT 25. E 23.667E6 ALL 26. DENSITY 23.56 ALL 27. SUPPORT 28. *6 TO 19 FIXED BUT MZ 1131 £Χ KEY 29. *5 20 FIXED BUT MZ 565 FΧ KFY 30. * FIXED BUT MZ FX KFY 1131 31. 8 TO 17 32. 5 6 7 18 19 20 FIXED BUT MZ FX KFY 2000 33. * 34. LOAD 1 : SELFWEIGHT 35. SELFWEIGHT Y -1 36. LOAD 2 : FILL WEIGHT 37. MEMBER LOAD 38. 1 TO 3 UNI GY -16.87 39. LOAD 3 : BACK FILL (MINIMUM) 40. MEMBER LOAD GX 4.82 15.45 41. 4 TRAP 42. 7 TRAP GX -4.82 -15.45 43. LOAD 4 : BACK FILL (MAXIMUM) 44. MEMBER LOAD 13.47 17.49 0.00 0.43 45. 4 TRAP GX 4 TRAP GX 17.49 40.48 0.43 2.25 46. 47. 7 TRAP 48. 7 TRAP GX -13.47 -17.49 0.00 0.43 49. LOAD 5 : LI T -17.49 -40.48 0.43 2.25 : LL IN ADJACENT SPANS 50. MEMBER LOAD -42.42 0.63 2.20 -42.42 2.07 2.83 GY 51. 1 UNI GY 52. 2 UNI : LL IN ALTERNATE SPAN 53. LOAD 6 54. MEMBER LOAD -42,42 0.63 2.20 55. 1 UNI GY 0.00 2.83 3 UNI GΥ -42.42 56.

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BOX CULVERT AT CH. 2+760 (BOX)

57. LOAD 7 : LL IN SPAN 1 58. MEMBER LOAD 59. 1 UNI GY -42.42 0.63 2.20 60. LOAD 8 : LL IN SPAN 2 61. MEMBER LOAD 62. 2 UNI GY -42.42 0.63 2.20 63. LOAD 9 : MILITARY LOADING IN SPAN 1 64. MEMBER LOAD 65. 1 UNI GY -29.35 0.02 1.41 66. 1 UNI GY -29.35 1.41 2.81 67. LOAD 10 : MILITARY LOADING IN SPAN 2 68. MEMBER LOAD GY -29,35 69. 2 UNI 0.02 1.41 70. 2 UNI GY -29.35 1.41 2.81 71. LOAD 11 : LL IN SPAN 1 FOR MAX. SHEAR 72. MEMBER LOAD 73. 1 UNI GY -42.42 0.00 1.57 74. LOAD 12 : MILITARY LOADING IN SPAN 1 FOR MAX. SHEAR 75. MEMBER LOAD 76. 1 UNI GY 77. 1 UNI GY -29.35 0.00 1.39 -29.35 1.39 2.79 78. * 79. LOAD COMB 13 80. 1 1.3 2 1.3 81. LOAD COMB 14 4 1.3 11 2.171 82. 1 1.3 2 1.3 4 1.3 12 2.171 83. * 84. LOAD COMB 15 85.1 1.3 2 1.3 4 1.3 5 2.171 86. LOAD COMB 16 87.1 1.3 2 1.3 4 1.3 6 2.171 88. LOAD COMB 17 89.1 1.3 2 1.3 4 1.3 7 2.171 90. LOAD COMB 18 91. 1 1.3 2 1.3 4 1.3 - 8 2.171 92. LOAD COMB 19 93. 1 1.3 2 1.3 4 94. LOAD COMB 20 . 9 1.3 2.171 95. 1 1.3 2 1.3 4 1.3 10 2.171 96. * 97. LOAD COMB 21 98.1 1.3 2 1.3 3 1.3 -5 2.171 99. LOAD COMB 22 100.1 1.3 2 1.3 3 1.3 2.171 6 101. LOAD COMB 23 102. 1 1.3 2 1.3 3 1.3 17 2.171 103. LOAD COMB 24 104.1 1.3 2 1.3 3 1.3 8 2.171 105. LOAD COMB 25 106. 1 1.3 2 1.3 3 1.3 -9 2.171 107. LOAD COMB 26 108. 1 1.3 2 1.3 3 1.3 10 2.171 109. LOAD COMB 27 110. 1 1.3 4 1.3 111. * 112. PERFORM ANALYSIS

P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS/MEMBER+ELEMENTS/SUPPORTS = 20/ 22/ 16 ORIGINAL/FINAL BAND-WIDTH = 16/ 4 TOTAL PRIMARY LOAD CASES = 12, TOTAL DEGREES OF FREEDOM = SIZE OF STIFFNESS MATRIX = 900 DOUBLE PREC. WORDS REQRD/AVAIL. DISK SPACE = 12.06/ 224.0 MB, EXMEM = 1960.5 MB

60

2

WARNING LOAD BEYOND ITS LENGTH. FULL LENGTH AS:	SUMED, MEMB	
<pre>++ Processing Element Stiffness Matrix, ++ Processing Global Stiffness Matrix. ++ Processing Triangular Factorization.</pre>	10:19:34 10:19:34 10:19:34	
<pre>***WARNING - IMPROPER LOAD WILL CAUSE INSTABILITY DIRECTION = FX PROBABLE CAUSE MODELING PROBLEM ++ Calculating Joint Displacements. ++ Calculating Member Forces.</pre>		18 0

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

MEMBER FORCE ENVELOPE

ALL UNITS ARE KNS METE

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ My	DIST DIST	LD LD	FX	DIST	LD
	MAX	143.24	.00	13	62.45	.00	15			
	PIAA	.00	.00	13	.00	.00	13	61.30 C	.00	20
	MIN	-127.57	2.83	25	-56.03	1.41	1			
an an an Taonacht		.00	2.83	27	.00	2.83	27	24.45 C	2.83	22
. 2	MAX	130.43	.00	26	49.01	00	24			
		.00	.00	13	.00	.00	13	105.42 C	.00	20
	MIN	-130.78	2.82	20	-54.79	1.41	18	01 04 0	1 00	
		.00	2.82	27	.00	2.82	27	21.04 C	2.82	22
4	MAX	42.91	2.25	27	19.05	2.25	26			4.4
	PIAA	.00	.00	13	· · · ·	.00	13	160.47 C	2.25	13
	MIN	-61.30	.00	20		.00	15			
		.00	2.25	27	00	2.25	27	16.78 C	2.06	27
5	MAX	3.40	.00	22	45.88	2.25	26			
	al est	.00	.00	13	.00	.00	13	188.08 C	2.25	25
	MIN	-44.12	2.25	20	-54.09	.00	20			
ta na d		.00	2.25	27	.00	2.25	27	15.71 C	2.06	27
<u>,</u>		17.26		27	20.26	.57	26			
8	MAX	-17.35 .00	.00	13	39.25 .00	.00	26 13	42.91 C	.00	27
. * *.	MIN	-96.83	.57	13	-32.09	.00	13	42.91 0		
	UT N	.00	.57	27	.00	.57	27	12.10 T	.57	26
								2019.XV 84		
9	MAX	7.60	.00	26	48.14	.57	21			
	اليكن الرامين. المائين المحروب	.00	.00	13	.00	.00	13	42.91 C	.00	27
	MIN	-37.10	. 57	13	1.86	.00	27			
		.00	. 57	27	.00	.57	27	12.10 T	.57	26
10	MAX	49.89	.00	26	48.14	and the second se	21	42.91 C	.00	27
	MTN	.00 3.26	.00	13 27	.00 2.80	.00 .57	13 27	42.91 C	.00	21
	MIN	.00	.57	27	2.80	.57		12.10 T	.57	26
		.00	 .	21	•••		4 1	12.10 1		
11	MAX	72.96	.00	26	29.26	.00	13		다. 11월 21일 - 11일 11일 21일 - 11일	
		.00	.00	13	.00	.00	13	42.91 C	.00	27
1	MIN	8.58	. 57	27	-30.90	.57	26			
		.00	.57	27	.00	.57	27	12.10 T	.57	26
14 - A - A - A - A - A - A - A - A - A -						to a Mary		공항이 가득 전 것이		

BOX CULVERT AT CH. 2+760 (BOX)

12 MA MIN 13 MA MI 14 MA MI 15 MA MI	N 14. X -9. N -65. X -3. N -39. X 8. N -14.	00 .01 05 .57 00 .57 00 .01 00 .01 00 .01 69 .51 00 .51 00 .51 00 .51 00 .51 00 .51 00 .51 72 .04 00 .64 43 .54	13 27 7 27 0 27 13 25 6 25 6 27 0 27 13 25 5 27 13 25 5 25 5 27 0 13 5 25 6 27 0 13 5 25 6 27 0 16	1.25 .00 -84.6 .00 -1.09 .00 -54.15 .00 11.16 .00 -18.57 .00	,00 56 .5	13 13 7 26 27 13 25 27 16 13 25	42.91 C 12.10 T 44.56 C 56.10 T 44.56 C	.57	26 13 26
13 MA MI 14 MA MI 15 MA	N 14. X -9. N -65. X -3. N -39. X 8. N -14.	05 .57 00 .57 00 .06 00 .06 69 .59 00 .59 00 .59 00 .59 00 .59 00 .59 00 .59 00 .59 72 .06 00 .64 43 .56	27 7 27 0 27 0 13 5 25 5 27 0 27 0 13 5 25 5 27 0 13 5 25 5 27 0 16	-84.6 .00 -1.09 .00 -54.15 .00 11.16 .00 -18.57	56 .57 .57 .00 .00 .56 .56 .00 .00	7 26 27 27 13 25 27 16 13	12.10 T 44.56 C 56.10 T	.57	26 13 26
13 MA MI 14 MA MI 15 MA	X -9. N -65. X -3. N -39. X 8. N -14.	00 .5 00 .00 00 .00 69 .50 00 .50 39 .00 00 .00 12 .51 00 .54 72 .00 00 .00 43 .54	7 27 0 27 13 5 25 5 27 0 27 0 13 5 25 5 27 0 13 5 25 5 27 0 13 6 25 6 27 0 13 6 25 7 0 13 6 25 6 27 0 13 7 0 13 7 0 13 13 13 13 13 13 13 13 13 13	.00 -1.09 .00 -54.15 .00 11.16 .00 -18.57	.57 .56 .00 .56 .56 .00 .00	27 27 13 25 27 16 13	44.56 C 56.10 T	.00	13 26
MI 14 MA MI 15 MA	N -65. X -3. N -39. X 8. N -14.	00 .00 69 .50 00 .50 39 .00 00 .00 12 .50 00 .50 72 .00 00 .00 43 .50	13 5 25 6 27 0 27 0 13 5 25 6 27 0 13 5 25 6 27 0 13 5 25 6 27 0 16	.00 -54.15 .00 11.16 .00 -18.57	.00 .00 .56 .56 .00 .00	13 25 27 16 13	56.10 T	.56	26
MI 14 MA MI 15 MA	N -65. X -3. N -39. X 8. N -14.	00 .00 69 .50 00 .50 39 .00 00 .00 12 .50 00 .50 72 .00 00 .00 43 .50	13 5 25 6 27 0 27 0 13 5 25 6 27 0 13 5 25 6 27 0 13 5 25 6 27 0 16	.00 -54.15 .00 11.16 .00 -18.57	.00 .00 .56 .56 .00 .00	13 25 27 16 13	56.10 T	.56	26
14 MA MI 15 MA	X -3. N -39. X 8. N -14.	00 .50 39 .00 00 .00 12 .50 00 .50 72 .00 00 .00 43 .50	5 27 0 27 0 13 5 25 5 27 0 16	.00 11.16 .00 -18.57	.56 .56 .00 .00	27 16 13			
MI 15 MA	X -3. N -39. X 8. N -14.	39 .00 00 .00 12 .50 00 .50 72 .00 00 .00 43 .50) 27) 13 5 25 5 27) 16	11.16 .00 -18.57	.56 .00 .00	16 13			
MI 15 MA	N -39. X 8. N -14.	00 .00 12 .50 00 .50 72 .00 00 .00 43 .50) 13 5 25 5 27) 16	.00 -18.57	.00	13	44.56 C	.00	
15 MA	N -39. X 8. N -14.	12 .50 00 .50 72 .00 00 .00 43 .50	5 25 5 27 0 16	-18.57	.00		44.30 C	00	. 10
	X 8. N -14.	72 .00 00 .00 43 .50) 16	.00					13
	N -14.	00 .00 43 .50		영국 가격 문제 같이 많이	승규는 승규를 주셨다.	27	56.10 T	.56	26
MI	N -14.	43 .50) 13	11.16	.00	16			
MI				.00	.00	13	44.56 C	.00	13
(a) 1. (a) 145		110		1.70	.00 .56	23 27	56.10 T	. c <i>e</i>	26
	X 44.			.00	.10	4. F	50.10 T	'.56	26
16 MA	and the second			9.87	.00	14			
MI	N 3.	00 .00		.00 -16.90	.00 .56	13 22	44.56 C	.00	13
		00 .50		.00	.56	27	56.10 T	. 56	26
17 MA	x 80.	85 .00) 22	3.92	.00	19			
	and the second	00 .00		.00	.00	13	44.56 C	.00	13
MI	and the second	96 .50 00 .50	5 27 5 27	-61.36 .00	.56 .56	22 27	56.10 T	.56	26
116. F 117. T 118. M 119. C	TART CONC C 25000.0 RACK 2 AXMAIN 20 LEAR 0.0 ESIGN BEA	5							
	BEAM	N O. 1	LDES	IGN R	ESUL	T S -	FLEXURE		
LEN -	2830. MM	FY - 4	114. FC	- 25. t	MPA. STZ	E - 100	ר א 250 א	MMS	
an de la terre									
TEAFT	HEIGHT (MM)	BAR	INFO	FROM (MM)			AN STA		
1	73.	3 -	20mm	0.		2830.	YES	YES	
I RE	QD STEEL= X/MIN/ACT	937.MM UAL BAR S	12, ROW= SPACING=	.38 KN-ME .0052, RC 878./ GTH = 49	OWMX≕ .0 45./	194 ROW 439. MM	N= .0033		
2	179.	5 -	16MM	о.		1658.	YES	- NO	
RE MA	QD STEEL= X/MIN/ACT	976.MA UAL BAR S	12, ROW= SPACING≃	.45 KN-ME .0054, RC 882./ GTH = 31	WMX= .0	194 ROWN 221. MMS	4N= .0033		

٠

	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 A A A A A A A A A A A A A A A A A A A						and the second
3	1 - 1 1 - 1 - 1	181.	8 - 12MM	1882.		2830.	N) YES
1								
	on rol		MOMENT= 5	חיים איז איז א	ນັດຍ ເ	070 MM	TOND '	221
.								
1			807.MM2, ROW					33
I I			AL BAR SPACING				5	ere Freise
	BASIC	C/REQD.	DEVELOPMENT LE	NGTH = 177	./ 3	59. MMS		1 I I I I I I I I I I I I I I I I I I I

REQUIRED REINF. STEEL SUMMARY :

. _____

SECTION	REINF STEEL (+VE)	/-VE) MOMENTS	(+VE/-VE)	LOAD(+VE/-VE)
(MM)	(SQ. MM.)	(KN	IS-MET)	
0.	0./ 1029	9. 0./	62.	0/ 15
236.	0./ 619	5. 0./	38.	0/ 20
472.	248./ 408	8. 16./	26.	13/ 20
707.	522./ 232	2. 33./	15.	13/ 20
943.	702./ 8	6. 43./	5.	22/ 20
1179.	863./	4. 53./	Ο.	22/ 27
1415.	975./	0.59./	0	22/ 0
1651.	871./	0. 53./	0.	23/ 0
1887.	710./	0. 44./	0	23/ 0
2122.	448./	0. 28./	0	21/ 0
2358.	245./ 16	0. 16./	10.	20/ 13
2594.	209./ 44	3. 13./	28	20/ 13
2830.	148./ 85	0. 9./	52.	20/ 22

BEAM NO. 1 DESIGN RESULTS - SHEAR

 AT START SUPPORT - Vu=
 122.00 KNS
 Vc=
 144.98 KNS
 Vs=
 .00 KNS

 PROVIDE
 12 MM BARS AT
 87. MM
 C/C FOR
 590. MM

 AT END
 SUPPORT - Vu=
 112.23 KNS
 Vc=
 144.98 KNS
 Vs=
 .00 KNS

 PROVIDE
 12 MM BARS AT
 87. MM
 C/C FOR
 825. MM

1j	2829X 999X 2492J
3No20cHc173. 0.TO 283	0 8No12 H 181.1882.TO82830
00000	

5#16	11	5#16	8#12
000	l',≹	000	1 000
승규는 것 같은 것은 가슴이 많이 많이 없다.	11		
			에 전문을 위한 것 같이 있는 것 같이
물건 모양 가슴 소리가 가지?	1.1	and the second secon	

 BEA	М	ΝΟ.	2 [) E S	IGN	RESU	JLTS-	FLEXURE

LEN -	2820. MM	FY -	414. FC	C - 25.	MPA, SI	IZE - 1000.	X 250. MMS
LEVEL	HEIGHT	BAB	INFO	FRC	м	ΨÓ	ANCHOR
다 A 다 1	(MM)	ÛCL	, IMPO	(MI		(MM)	STA END

8

	1	69. 8 - 12MM	15.	2687,	NO	NO	
 		CRITICAL POS MOMENT= 54. REQD STEEL= 850.MM2, ROW= MAX/MIN/ACTUAL BAR SPACING= BASIC/REQD. DEVELOPMENT LENG	.0047, ROWMX 886./ 37	= .0194 ROWMN ./ 127. MMS			
		181. 7 - 12MM DESIGN OF BOX CULVERT AT CH.	2+760 (3 X 2		YES PA		
 		CRITICAL NEG MOMENT= 49. REQD STEEL= 766.MM2, ROW= MAX/MIN/ACTUAL BAR SPACING= BASIC/REQD. DEVELOPMENT LENG	.0043, ROWMX 886./ 37	= .0194 ROWMN ./ 148. MMS			

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REQUIRED REINF. STEEL SUMMARY :

SECTION	REINF STEEL		MOMENTS (+VI	•	LOAD(+VE/-VE)		
(MM)	(SQ. MM) i transmissione († 1916) 1917 - Angeler Alexander, frankriger († 1916) 1917 - Angeler Alexander, frankriger († 1916)	(KNS-MI	et)		di se	
	Sector Report					· .	
0.	0./	796.	0./	49.	0/ 2	4	
235.	0./	461.	0./	29.	0/ 2	1	
470.	108./	284.	7./	18.	20/ 2	2	
705.	397./	191.	25./	12.	20/ 2	2	
940	665./	124.	41./	8.	18/ 2	2	
1175.	837./	84.	51./	5.	18/ 2	2	
1410.	896./	69.	55 /	4.	18/ 2	2	
1645.	839./	80.	51./	5.	18/ 2	2	
1880.	669./	116.	41./	7.	. 18/ 2	2	
2115.	400./	179.	25./	11.	20/ 2	2	
2350.	186./	268.	12./	17.	15/ 2	2	
2585.	0./	385.	0./	24.	0/ 2	2	
2820.	0./	792.	0./	49.	0/ 2	4	
and the second second	esse Henry Her	l se bi se lite					

BEAM NO. 2 DESIGN RESULTS - SHEAR

	PF SUPPORT - Vu	I= 115.09 KNS ROVIDE 12 MM BAF I= 114.96 KNS ROVIDE 12 MM BAF	RS AT 87. MM Vc= 144.98 K	C/C FOR 822 NS Vs= ,(MM DOKNS
2J		2819X 9	99X 249		3J
· · · · · · · · · · · · · · · · · · ·					
8No12cHc	169. 15.TO 26	587	1 1 1	11*12	2c/c 87
	00000	 0000		 00000	
		7#12 00000 		7#12 	900
		<mark>_ </mark>	<u>i de la secola de la seco</u> la de la secola d		

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BOX CULVERT AT CH. 2+760 (BOX)

	R 0.065 GN BEAM 4 5 8 '	CO 17				
B 1	EAM NO.	4 DESI	GN RESU	LTS-F	LEXURE	
	50. MM FY -					MMS
LEVEL	HEIGHT BAR (MM)	INFO	FROM (MM)	TO (MM)	ANC STA	HOR END
			e u l'estelle de proposition Records de la composition de la composit Records de la composition de la composit			<u>en de la comp</u> etencia. Transmission
1	84. 10 -	12MM	0.	2250.	YES	
REQD MAX/M	CAL POS MOMENT STEEL= 1091.M IN/ACTUAL BAR /REQD. DEVELOP	M2, ROW= . SPACING=	0066, ROWMX= 886./ 37./	.0194 ROWMN 98. MMS	⊫ .0033	
2	166. 5 -	12MM	110.	2250.	NO	YES
REQD MAX/M	CAL NEG MOMENT STEEL= 554.M IIN/ACTUAL BAR :/REQD. DEVELOP	M2, ROW= . SPACING=	0033, ROWMX= 886./ 37./	.0194 ROWMN 222. MMS	1= .0033	
	REINF. STEEL S REINF STEEL (SQ. MM	(+VE/-VE)	MOMENTS (+ (KNS-	VE/-VE) Met)	LOAD (+VE	:/-VE)
		이번 이상 수				
0. 187.	1142./ 944./	0. 0.	62./ 52./	0. 0.	15/ 15/	나는 그는 것이 같아?
375.	791./	õ.	44./	0.	21/	0
562.	676./	25.	38./		21/	
750. 937.	570./ 471./	89. 137.	32./ 27./	5. 8.	21/ 21/	27
1125.	384./		22./	10.	25/	27
1312.	336./	175.	19./	10.	22/	
1500.	304./		18./	12. 15.	22/	
1687. 1875.	283./ 340./		16./ 20./	16	22/ 13/	
2062.		285.	25./	16.	13/	4. A.
2250.		331.	32./	19.	13/	26
8	EAM NO.	4 DES	IGNRESU	LTS-S	HEAR	
	T SUPPORT - Vu PRO N OF BOX CULVE	OVIDE 12 M	M BARS AT 80.	MM C/C F	= .0 OR 281. P	MM
	SUPPORT - Vu	= 33:85		52 KNS Vs	= .0	0 KNS
1J			9X 999X 249		an a	5J
			JK JJJJK 24J			
 10No121Hc		 5050				#1 == = = = = = = = = = = = = = = = = =
1 <u></u>			angen standers som de fors Televisier og som			
		<u></u>		e se de la composition de la compositio Composition de la composition de la comp		

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BOX CULVERT AT CH. 2+760 (BOX)

						 -
			00000		00000	
)#12		5#12		5#	12	t i ser
000000	0000	0	000000000		00000000	00 * . *
BE	AM NO.	5 DES	IGN RESU	<u> </u>	FLEXURE	
			and the state of the	e de la compañía		
JEN - 2250	. MM FY - 4	414. FC	- 25. MPA, S	IZE - 100)0.X 250.	MMS
LEVEL HE	IGHT BAR	INFO	FROM	то	ANC	HOR
(MM)		(MM)	(MM)	STA	END
					andra an ann an Anna. Anna an Anna an A Anna an Anna an	· · · ·
1	88. 3 -	20MM	0.	1719.	YES	NO
CRITICA	L POS MOMENT=	- 54.	09 KN-MET AT	0.MM	LOAD 20	
REQD ST	EEL= 936.M	12, ROW=	.0057, ROWMX=	.0194 RO	MM≄ .0033	
and the second		A STATE OF A	878./ 45./			l in the
BASIC/R	EQU. DEVELOP	IENT LENG	TH = 493./	594. MM	3	.
	میں ہے۔ 1996ء کی ایک ایک ایک ا					
2	166. 7 -	12MM	0.	2250.	YES	YES
REQD ST		12, ROW=	.0047, ROWMX=	.0194 RO	≬MN≕ .0033	ĺ
REQD ST	EEL= 776.MN /ACTUAL BAR S	12, ROW= SPACING=	.0047, ROWMX= 886./ 37./	.0194 ROU 148. MI	VMN≕ .0033 4S	
REQD ST	EEL= 776.MN /ACTUAL BAR S	12, ROW= SPACING=	.0047, ROWMX=	.0194 ROU 148. MI	VMN≕ .0033 4S	
REQD ST	EEL= 776.MN /ACTUAL BAR S	12, ROW= SPACING=	.0047, ROWMX= 886./ 37./	.0194 ROU 148. MI	VMN≕ .0033 4S	
REQD ST MAX/MIN BASIC/R	EEL= 776.MN /ACTUAL BAR S	12, ROW= SPACING= 1ENT LENG	.0047, ROWMX= 886./ 37./	.0194 ROU 148. MI	VMN≕ .0033 4S	
REQD ST MAX/MIN BASIC/R REQUIRED RE	EEL= 776.M /ACTUAL BAR S EQD. DEVELOPN 	12, ROW= SPACING= 1ENT LENG JMMARY :	.0047, ROWMX= 886./ 37./ TH = 177./	.0194 ROT 148. MI 359. MM:	9MN= .0033 15 5	
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL	12, ROW= SPACING= 1ENT LENG JMMARY : (+VE/-VE)	.0047, ROWMX= 886./ 37./ TH = 177./ 	.0194 ROU 148. MI 359. MM 	9MN= .0033 15 5	/-VE)
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION	EEL= 776.M /ACTUAL BAR S EQD. DEVELOPN 	12, ROW= SPACING= 1ENT LENG JMMARY : (+VE/-VE)	.0047, ROWMX= 886./ 37./ TH = 177./	.0194 ROU 148. MI 359. MM 	9MN= .0033 15 5	/-ve)
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION (MM) 0.	EEL= 776.M /ACTUAL BAR S EQD. DEVELOPN INF. STEEL S(REINF STEEL (SQ. MM 978./	12, ROW= SPACING= 1ENT LENG 1ENT LENG (+VE/-VE)) 304.	.0047, ROWMX= 886./ 37./ TH = 177./ 	.0194 ROU 148. MI 359. MM 	MN= .0033 15 LOAD(+VE 20/	
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION (MM) 0. 187.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./	12, ROW= SPACING= MENT LENG MMARY : (+VE/-VE)) 304. 293.	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./	.0194 ROU 148. MI 359. MM 359. MM 	VMN= .0033 45 5 LOAD(+VE 20/	22
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./	12, ROW= SPACING= 1ENT LENG JMMARY : (+VE/-VE)) 304. 293. 282.	.0047, ROWMX= 886./ 37./ TH = 177./ 	.0194 ROU 148. MI 359. MM 	MN= .0033 15 LOAD(+VE 20/ 20/ 20/	22 22 22
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./ 514./	42, ROW= SPACING= MENT LENG MENT LENG (+VE/-VE)) 304. 293. 282. 270.	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./	.0194 ROU 148. MI 359. MM: 	VMN= .0033 15 LOAD(+VE 20/ 20/ 20/ 20/	22 22 22
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVER1	42, ROW= SPACING= MENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH.	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 X 2.5	.0194 ROU 148. MI 359. MMS 	MN= .0033 AS LOAD(+VE 20/ 20/ 20/ 20/ 20/ - PA	22 22 22 22 35 NO.
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVER1 365./	42, ROW= SPACING= MENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259.	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 X 2.5 21./	.0194 ROU 148. MI 359. MM: 	MN= .0033 AS LOAD(+VE 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	22 22 22 3E NO. 22
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVERT 365./ 223./	42, ROW= SPACING= MENT LENG MENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259. 248.	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 X 2.5 21./ 13./	.0194 ROU 148. MI 359. MM: 	VMN= .0033 AS S LOAD (+VE, 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	22 22 22 3E NO. 22 22
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937. 1125.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SC REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVER1 365./ 223./ 88./	42, ROW= SPACING= MENT LENG MENT LENG (+VE/-VE)) 304. 293. 282. 270. P AT CH. 259. 248. 237.	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 X 2.5 21./ 13./ 5./	.0194 ROU 148. MI 359. MM: 	VMN= .0033 AS S LOAD (+VE. 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	22 22 22 3E NO. 22 22 22 22
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVERT 365./ 223./ 88./ 0./ 0./	<pre>12, ROW= SPACING= 1ENT LENG 1ENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259. 248. 237. 237. 275.</pre>	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 x 2.5 21./ 13./ 5./ 0./	.0194 ROU 148. MI 359. MM: 	VMN= .0033 AS S LOAD (+VE. 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	22 22 22 3E NO. 22 22 22 22 22 21
REQD ST MAX/MIN BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937. 1125. 1312.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL S(REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVER1 365./ 223./ 88./ 0./ 0./	<pre>12, ROW= SPACING= 1ENT LENG 1ENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259. 248. 237. 237. 237. 275. 368.</pre>	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 X 2.5 21./ 13./ 5./	.0194 ROU 148. MI 359. MM: 	VMN= .0033 AS S LOAD (+VE. 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	22 22 22 22 22 22 22 22 22 22 21 21
REQD ST MAX/MIN BASIC/R BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937. 1125. 1312. 1500. 1687. 1875.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVERT 365./ 223./ 88./ 0./ 0./ 0./ 0./	<pre>42, ROW= 5PACING= 4ENT LENG 4ENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259. 248. 237. 237. 237. 237. 275. 368. 516.</pre>	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 x 2.5 21./ 13./ 5./ 0./ 0./ 0./ 0./	.0194 ROU 148. MI 359. MM3 	<pre>WMN= .0033 AS S LOAD(+VE 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/</pre>	22 22 22 22 22 22 22 22 22 21 21 21 26 26
REQD ST MAX/MIN BASIC/R BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937. 1125. 1312. 1500. 1687. 1875. 2062.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVERT 365./ 223./ 88./ 0./ 0./ 0./ 0./ 0./	<pre>42, ROW= 5PACING= 4ENT LENG= 4ENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259. 248. 237. 237. 237. 237. 237. 237. 368. 516. 667.</pre>	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 x 2.5 21./ 13./ 5./ 0./ 0./ 0./ 0./ 0./ 0./	.0194 ROU 148. MI 359. MMS 	<pre>WMN= .0033 AS S LOAD(+VE. 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/</pre>	22 22 22 22 22 22 22 22 22 21 21 26 26 26
REQD ST MAX/MIN BASIC/R BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937. 1125. 1312. 1500. 1687. 1875.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVERT 365./ 223./ 88./ 0./ 0./ 0./ 0./ 0./	<pre>42, ROW= 5PACING= 4ENT LENG 4ENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259. 248. 237. 237. 237. 237. 275. 368. 516.</pre>	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 x 2.5 21./ 13./ 5./ 0./ 0./ 0./ 0./	.0194 ROU 148. MI 359. MM3 	<pre>WMN= .0033 AS S LOAD(+VE 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/</pre>	22 22 22 22 22 22 22 22 22 21 21 26 26 26
REQD ST MAX/MIN BASIC/R BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937. 1125. 1312. 1500. 1687. 1875. 2062.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVERT 365./ 223./ 88./ 0./ 0./ 0./ 0./ 0./	<pre>42, ROW= 5PACING= 4ENT LENG= 4ENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259. 248. 237. 237. 237. 237. 237. 237. 368. 516. 667.</pre>	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 x 2.5 21./ 13./ 5./ 0./ 0./ 0./ 0./ 0./ 0./	.0194 ROU 148. MI 359. MMS 	<pre>WMN= .0033 AS S LOAD(+VE. 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/</pre>	22 22 22 22 22 22 22 22 22 21 21 26 26 26
REQD ST MAX/MIN BASIC/R BASIC/R REQUIRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937. 1125. 1312. 1500. 1687. 1875. 2062. 2250.	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SU REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVER1 365./ 223./ 88./ 0./ 0./ 0./ 0./ 0./	<pre>42, ROW= 5PACING= 4ENT LENG 4ENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259. 248. 237. 237. 237. 237. 237. 237. 237. 237</pre>	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 x 2.5 21./ 13./ 5./ 0./ 0./ 0./ 0./ 0./ 0./	.0194 ROU 148. MI 359. MMS 	<pre>WMN= .0033 AS S LOAD(+VE. 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/</pre>	22 22 22 22 22 22 22 22 22 21 21 26 26 26
REQD ST MAX/MIN BASIC/R BASIC/R CONTRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937. 1125. 1312. 1500. 1687. 1875. 2062. 2250. B E	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SC REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVER1 365./ 223./ 88./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./	<pre>42, ROW= 5PACING= 4ENT LENG 4ENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259. 248. 237. 237. 237. 237. 237. 237. 237. 237</pre>	.0047, ROWMX= 886./ 37./ TH = 177./ 	.0194 ROU 148. MI 359. MMS 	<pre>WMN= .0033 AS AS LOAD(+VE 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 18/ 18/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/</pre>	22 22 22 22 22 22 22 22 22 21 21 26 26 26 26
REQD ST MAX/MIN BASIC/R BASIC/R CONTRED RE SECTION (MM) 0. 187. 375. 562. DESIGN O 750. 937. 1125. 1312. 1500. 1687. 1875. 2062. 2250. B E	EEL= 776.MM /ACTUAL BAR S EQD. DEVELOPM INF. STEEL SC REINF STEEL (SQ. MM 978./ 820./ 665./ 514./ F BOX CULVERT 365./ 223./ 88./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0	<pre>42, ROW= 5PACING= 4ENT LENG 4ENT LENG (+VE/-VE)) 304. 293. 282. 270. F AT CH. 259. 248. 237. 237. 237. 237. 237. 237. 237. 237</pre>	.0047, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 54./ 46./ 38./ 29./ 2+760 (3 X 2.5 21./ 13./ 5./ 0./ 0./ 0./ 0./ 0./ 0./ 0./ 0	.0194 ROU 148. MI 359. MMS 	<pre>WMN= .0033 AS AS LOAD(+VE 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 18/ 18/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/</pre>	22 22 22 22 22 22 22 22 22 21 21 26 26 26 26

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					DWIDD	
2	SEAM NO). 8 DESI	. GN KESU) L T S - EI	LAURE	
EN -	566. MM FY	- 414. FC -	25. MPA, S	SIZE - 1000.	X 250.	MMS
EVEL	HEIGHT	BAR INFO	FROM	то	ANC	HOR
	(MM)		(MM)	(MM)	STA	END
in the second						
1	84.	5 - 12MM	0.	566.	YES	YES
MAX	MIN/ACTUAL	554.MM2, ROW= BAR SPACING= /ELOPMENT LENG	886./ 37./	/ 222. MMS		
2	166.	6 - 12MM	0.	566.	YES	YES
						ે કે કે જે છે. તા અને અને અને
		OMENT= 39.3 659.MM2, ROW=				
MAX	/MIN/ACTUAL	BAR SPACING=	886 / 37	/ 177 MMS		
BAS	IC/REQD. DE	VELOPMENT LENG	TH = 177./	359. MMS		
	D REINF. ST	EEL SUMMARY :				
			MOMENIES		LOAD (+VE	/_375)
SECTION		STEEL(+VE/-VE) MM)		-MET)		.,
					101	20
0.	565 486		32./ 28./	19. 21.	13/ 13/	
47. 94.	480	and the second	23./	21.	13/	a second second second
141.	328		19./	24.	13/	
189.	250		15./	26.	13/	26
236.	173		10./	27.	13/	26
283. 330.		./ 506. ./ 537.	6./ 3./	29. 31.	13/ 27/	26 26
377.		./ 568	2./	32.	27/	26
424.	19	./ 600.	1./	34.	27/	26
472.	and the second	./ 632.	0./	36		26
519. 566.	the second se	./ 664. ./ 697.	0./	37. 39.	0/	26 26
	U					

2249X 999X 249

BOX CULVERT AT CH. 2+760 (BOX)

10J

8 DESIGN RESULTS ~ SHEAR BEAM NO. AT START SUPPORT - Vu= 93.72 KNS Vc= 132.52 KNS Vs= .00 KNS PROVIDE 12 MM BARS AT 80. MM C/C FOR 566. MM AT END SUPPORT ~ Vu= 95.60 KNS Vc= 132.52 KNS Vs= PROVIDE 12 MM BARS AT 80. MM C/C FOR 566. MM SJ565X 999X 249 -----5No12cHc184. 0.TO 566 2 I. • f 9*12c/c 80 1 ***** ----000000 000000 1 000000 6#12 1 6#12 6#12 1 L 00000 00000 1 00000 BEAM NO. 9 DESIGN RESULTS - FLEXURE 566. MM FY - 414. LEN -FC -25. MPA, SIZE - 1000. X 250. MMS LEVEL HEIGHT BAR INFO FROM TO ANCHOR (MM) (MM) (MM) STA END 1 166. 8 - 12MM 0. 566. YES YES CRITICAL NEG MOMENT= 48.14 KN-MET AT 566.MM, LOAD 21 | REQD STEEL= 816.MM2, ROW= .0049, ROWMX= .0194 ROWMN= .0033 MAX/MIN/ACTUAL BAR SPACING= 886./ 37./ 127. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS REQUIRED REINF. STEEL SUMMARY : ____ SECTION REINF STEEL (+VE/-VE) MOMENTS (+VE/-VE) LOAD (+VE/-VE) (SQ. MM) (MM)) (KNS-MET) 0. 0./ 697. 0./ 39, 0/ 26 703. 47. 0.7 0.7 40. 21 07 94. 0./ 716. 0./ 40: 0/ 21 141. 0.:/ 729. 0./ 21 41. 0/ 189. 0./ 742. 0./ 42. 0/ 21 236. 0.1 756. 0./: 42. 0/ 21 283. 0./ 771. 0./ 43. 0/ 21 330. 0./ 786. 0./ 44 0/ 21 377. 0./ 801. 0./ 45. 0/ . 21 424. 0./ 816. 0:/ 46. 0/ 21 472. 0:/ 832. 0./ 46. 07 21 0:/ 519. 848. 0./ 47. 0/ . 21 566. 0.7 864. 0./ 48. 07 21 BEAMNO. 9 DESIGNRESULTS - SHEAR AT START SUPPORT - Vu= 33.99 KNS Vc= 132.52 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. SUPPORT - Vu= 35.88 KNS Vc= 132.52 KNS Vs= AT END .00 KNS STIRRUPS ARE NOT REQUIRED.

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8No12 H 166. 0.TO 566				
00000000 8#12 	00000000 8#12		0000 8#12 	0000

BEAM NO. 10 DESIGN RESULTS - FLEXURE

LEN - 566. MM	FY - 414.	FC - 25.	MPA, SIZE	- 1000. X	250. MMS
LEVEL HEIGHT	BAR INFO			0	ANCHOR
(MM)		(MM)	(M	M)	STA END

	1 166. 8 - 12MM 0. 566.	YES	YES
 	CRITICAL NEG MOMENT= 48.14 KN-MET AT 0.MM, LO		1
ļ	REQD STEEL= 816.MM2, ROW= .0049, ROWMX= .0194 ROWMN=	.0033	1 de la
	MAX/MIN/ACTUAL BAR SPACING= 886./ 37./ 127. MMS	ا با را معاد میں۔ ۲ میر خرو	1 3.
ļ	BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS		

REQUIRED REINF. STEEL SUMMARY :

SECTION R	EINF STEEL	(+VE/-VE)	MOMENTS (+VI	E/-VE)	LOAD (+VE/-VE)
(MM)	(SQ. MM		(KNS-M	ET)	
0.	0./	864.	0./	48.	0/ 21
47.	0./	827.	0./	46.	0/ 21
94.	0./:	791.	0./	44.	0/ 25
141.	0./	757.	0./	42.	0/ 25
189.	0./	724	0./	41	0/ 25
236.	0./	691.	0./	39.	0/ 25
283.	0./	658.	0,/	37.	0/ 25
330.	0./ 1	626.	0./	35.	0/ 25
377.	0./	595.	0./	34	0/ 25
424.	0./	564.	0./	32.	0/ 13
472.	0./	547.	0./	31.	0/ 13
519.	0./	530,	0./ 3.	30.	0/ 13
566.	0./	514.	0./	29.	0/ 13

BEAM NO. 10 DESIGN RESULTS - SHEAR

		그의 문제 문제 비행이다.					아파 소재 운영		-
Al	START	SUPPORT -	Vu= 48	.67 KNS	Vc= 132.52	KNS	Vs=	00 KNS	
		이 있었는 분석으로	STIRRUPS	ARE NOT	REQUIRED.				
AI	END	SUPPORT -	• Vu= 46	.78 KNS	Vc= 132.52	KNS	Vs=	00 KNS	÷
	1997 - 1997 1997 - 1997	an da polo	STIRRUPS	ARE NOT	REOUIRED.	2 2 A 2			, i

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					$X \in \{x_i\}$	
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<u>- 1910 (1910)</u> 	<u> </u>	1		1_1		
8 5	АМ NO 1	1 D 🗟 ୧	IGN RESU	1 m g _	erevine	
					in the second	
EN - 566	. MM FY -	414. FC	- 25. MPA, S	IZE - 1000	. X 250.	MMS
EVEL HE	IGHT BAR	INFO	FROM	TO	ANC	
(MM)		(MM)	(MM)	STA	END
1	84. 5-	1.2 мм	Ο.	r.c.r		VDA
- -	04. J -	LCIMA	V.	566.	YES	ILS
a second and a second						
						ali en la Esta la fac
CRITICA REQD ST	L POS MOMENT EEL= 554.M	= 30. M2, ROW=	90 KN-MET AT .0033, ROWMX=	566.MM,	LOAD 26 N= .0033	11: 11: 1. 11: 11: 1. 11: 11: 11:
REQD ST MAX/MIN	EEL= 554.M /ACTUAL BAR	M2, ROW= SPACING=	.0033, ROWMX= 886./ 37./	.0194 ROWM 222. MMS	N= .0033	1
REQD ST MAX/MIN	EEL= 554.M /ACTUAL BAR	M2, ROW= SPACING=	.0033, ROWMX=	.0194 ROWM 222. MMS	N= .0033	
REQD ST MAX/MIN BASIC/R	EEL= 554.M /ACTUAL BAR EQD. DEVELOP	M2, ROW= SPACING= MENT LENG	.0033, ROWMX= 886./ 37./ TH = 177./	.0194 ROWM 222. MMS 352. MMS	v= .0033	
REQD ST MAX/MIN BASIC/R	EEL= 554.M /ACTUAL BAR	M2, ROW= SPACING= MENT LENG	.0033, ROWMX= 886./ 37./	.0194 ROWM 222. MMS 352. MMS	v= .0033	
REQD ST MAX/MIN BASIC/R 2 CRITICA	EEL 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - L NEG MOMENT	M2, ROW= SPACING= MENT LENG 12MM = 29.	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT	.0194 ROWM 222. MMS 352. MMS 566. 0.MM,	N= .0033 YES LOAD 13	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - L NEG MOMENT EEL= 554.M	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW=	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX=	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM	N= .0033 YES LOAD 13 N= .0033	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - L NEG MOMENT EEL= 554.M /ACTUAL BAR	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING=	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS	N= .0033 YES LOAD 13 N= .0033	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - L NEG MOMENT EEL= 554.M /ACTUAL BAR	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING=	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS	N= .0033 YES LOAD 13 N= .0033	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - L NEG MOMENT EEL= 554.M /ACTUAL BAR EQD. DEVELOP	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS	N= .0033 YES LOAD 13 N= .0033	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - L NEG MOMENT EEL= 554.M /ACTUAL BAR	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS	N= .0033 YES LOAD 13 N= .0033	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R 2 QUIRED RE 2 CTION	EEL= 554.M //ACTUAL BAR EQD. DEVELOP 166. 5 - L NEG MOMENT EEL= 554.M //ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG UMMARY : (+VE/-VE)	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS 359. MMS	N= .0033 YES LOAD 13 N= .0033	 YES
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R 2 QUIRED RE 2 CTION	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - L NEG MOMENT EEL= 554.M /ACTUAL BAR EQD. DEVELOP	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG UMMARY : (+VE/-VE)	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./ TH = 177./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, 0194 ROWM 222. MMS 359. MMS	N= .0033 YES LOAD 13 N= .0033	 YES
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R 2 QUIRED RE 2 CTION	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - .L NEG MOMENT EEL= 554.M /ACTUAL BAR EQD. DEVELOP SINF. STEEL S REINF STEEL S 	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG UMMARY : (+VE/-VE)	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, 0194 ROWM 222. MMS 359. MMS	N= .0033 YES LOAD 13 N= .0033	 YES
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R EQUIRED RE ECTION MM) 0. 47.	EEL= 554.M //ACTUAL BAR EQD. DEVELOP 166. 5 - .L NEG MOMENT EEL= 554.M //ACTUAL BAR EQD. DEVELOP 	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG WENT LENG (+VE/-VE)) 514. 470.	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 0./ 0./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS 359. MMS VE/-VE) MET) 29. 27.	N= .0033 YES LOAD 13 N= .0033 LOAD (+VE 0/ 0/	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R EQUIRED RE ECTION MM) 0.	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - .L NEG MOMENT EEL= 554.M /ACTUAL BAR EQD. DEVELOP SINF. STEEL S REINF STEEL S 	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG WENT LENG (+VE/-VE)) 514. 470. 426.	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS 359. MMS 359. MMS VE/-VE) MET) 29. 27. 24.	N= .0033 YES LOAD 13 N= .0033 LOAD (+VE 0/ 0/ 0/	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R CQUIRED RE CQUIRED RE CCTION MM) 0. 47. 94. 141. 189.	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - IL NEG MOMENT EEL= 554.M /ACTUAL BAR EQD. DEVELOP .INF. STEEL S REINF STEEL S REINF STEEL S 0./ 0./ 0./ 0./ 33./ 89./	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG WENT LENG (+VE/-VE)) 514. 470. 426. 383. 341.	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 2./ 5./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS 359. MMS VE/-VE) MET) 29. 27.	N= .0033 YES LOAD 13 N= .0033 LOAD (+VE 0/ 0/	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R CQUIRED RE CQUIRED RE CTION MM) 0. 47. 94. 141. 189. 236.	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - IL NEG MOMENT EEL= 554.M /ACTUAL BAR EQD. DEVELOP .INF. STEEL S REINF STEEL S REINF STEEL S 0./ 0./ 0./ 0./ 33./ 89./ 146./	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG (+VE/-VE)) 514. 470. 426. 383. 341. 299.	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 8./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS 359. MMS 	N= .0033 YES LOAD 13 N= .0033 LOAD (+VE 0/ 0/ 0/ 20/ 20/ 20/ 20/	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R CQUIRED RE CQUIRED RE CCTION MM) 0. 47. 94. 141. 189.	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - IL NEG MOMENT EEL= 554.M /ACTUAL BAR EQD. DEVELOP .INF. STEEL S REINF STEEL S REINF STEEL S 0./ 0./ 0./ 0./ 33./ 89./	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG WENT LENG (+VE/-VE)) 514. 470. 426. 383. 341.	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 2./ 5./ 8./ 12./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, 0194 ROWM 222. MMS 359. MMS 359. MMS VE/-VE) MET) 29. 27. 24. 22. 20.	N= .0033 YES LOAD 13 N= .0033 LOAD {+VE LOAD {+VE 0/ 0/ 0/ 20/ 20/ 20/ 20/ 20/	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R CQUIRED RE CQUIRED RE CTION MM) 0. 47. 94. 141. 189. 236. 283. 330. 377.	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - I NEG MOMENT EEL= 554.M /ACTUAL BAR EQD. DEVELOP 	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG MENT LENG (+VE/-VE)) 514. 470. 426. 383. 341. 299. 258. 217. 177.	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 2./ 5./ 8./ 12./ 15./ 18./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS 359. MMS 	N= .0033 YES LOAD 13 N= .0033 LOAD {+VE LOAD {+VE 0/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R CUIRED RE CUIRED RE CTION MM) 0. 47. 94. 141. 189. 236. 283. 330. 377. 424.	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - I NEG MOMENT EEL= 554.M /ACTUAL BAR EQD. DEVELOP 	M2, ROW= SPACING= MENT LENG 29. M2, ROW= SPACING= MENT LENG (+VE/-VE)) 514. 470. 426. 383. 341. 299. 258. 217. 177. 137.	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 0./ 12./ 15./ 18./ 21./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS 359. MMS 	N= .0033 YES LOAD 13 N= .0033 LOAD {+VE LOAD {+VE 0/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	
REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN BASIC/R CQUIRED RE CQUIRED RE CTION MM) 0. 47. 94. 141. 189. 236. 283. 330. 377.	EEL= 554.M /ACTUAL BAR EQD. DEVELOP 166. 5 - I NEG MOMENT EEL= 554.M /ACTUAL BAR EQD. DEVELOP 	M2, ROW= SPACING= MENT LENG 12MM = 29. M2, ROW= SPACING= MENT LENG MENT LENG (+VE/-VE)) 514. 470. 426. 383. 341. 299. 258. 217. 177.	.0033, ROWMX= 886./ 37./ TH = 177./ 0. 26 KN-MET AT .0033, ROWMX= 886./ 37./ TH = 177./ MOMENTS(+ (KNS- 0./ 0./ 0./ 0./ 2./ 5./ 8./ 12./ 15./ 18./	.0194 ROWM 222. MMS 352. MMS 566. 0.MM, .0194 ROWM 222. MMS 359. MMS 	N= .0033 YES LOAD 13 N= .0033 LOAD {+VE LOAD {+VE 0/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	

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B E <i>i</i>	AM NO. 12	DESI	GN RESU	ьто – еы	LXURE	
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1	88 5 -	20MM	0	566	YES	YES
	88. 5 -			566.	YES	
 CRITICA	L POS MOMENT=	84.6	0. 6 KN-MET AT 0093, ROWMX=	566.MM, LO	AD 26	
CRITICA CRITICA REQD ST MAX/MIN	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S	84.6 2, ROW= PACING=	6 KN-MET AT 0093, ROWMX= 878./ 45./	566.MM, LO .0194 ROWMN= 220.MMS	AD 26	
CRITICA CRITICA REQD ST MAX/MIN	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S	84.6 2, ROW= PACING=	6 KN-MET AT 0093, ROWMX=	566.MM, LO .0194 ROWMN= 220.MMS	AD 26	
CRITICA CRITICA REQD ST MAX/MIN BASIC/R 	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM	84.6 2, ROW= PACING= ENT LENGT	6 KN-MET AT 0093, ROWMX= 878./ 45./ 'H = 493./	566.MM, LO .0194 ROWMN= 220.MMS 579.MMS	AD 26	
CRITICA REQD ST MAX/MIN BASIC/R 	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 -	84.6 2, ROW= PACING= ENT LENGT 12MM	6 KN-MET AT 0093, ROWMX= 878./ 45./ 'H = 493./ 0.	566.MM, LO 0194 ROWMN= 220.MMS 579.MMS 359.	AD 26 .0033 YES	NO
CRITICA REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM	84.6 2, ROW= . PACING= ENT LENGT 12MM 1.2 2, ROW= .	6 KN-MET AT 0093, ROWMX= 878./ 45./ 'H = 493./ 0. 25 KN-MET AT 0033, ROWMX=	566.MM, LO .0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO .0194 ROWMN=	AD 26 .0033 YES AD 13	NO
 CRITICA REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S	84.6 2, ROW= PACING= ENT LENGT 12MM 1.2 2, ROW= PACING=	6 KN-MET AT 0093, ROWMX= 878./ 45./ 'H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./	566.MM, LO .0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO .0194 ROWMN= 222.MMS	AD 26 .0033 YES AD 13	NO
 CRITICA REQD ST MAX/MIN BASIC/R 2 CRITICA REQD ST MAX/MIN	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S	84.6 2, ROW= PACING= ENT LENGT 12MM 1.2 2, ROW= PACING=	6 KN-MET AT 0093, ROWMX= 878./ 45./ 'H = 493./ 0. 25 KN-MET AT 0033, ROWMX=	566.MM, LO .0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO .0194 ROWMN= 222.MMS	AD 26 .0033 YES AD 13	NO
 CRITICA REQD ST MAX/MIN BASIC/R CRITICA REQD ST MAX/MIN BASIC/R 	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM	84.6 2, ROW= PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT	6 KN-MET AT 0093, ROWMX= 878./ 45./ 'H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./	566.MM, LO .0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO .0194 ROWMN= 222.MMS	AD 26 .0033 YES AD 13	NO
CRITICA REQD ST MAX/MIN BASIC/R 	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM :INF. STEEL SU	84.6 2, ROW= . PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY :	6 KN-MET AT 0093, ROWMX= 878./ 45./ 'H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ 'H = 177./	566.MM, LO .0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO .0194 ROWMN= 222.MMS 359.MMS	AD 26 .0033 YES AD 13 .0033	NO
CRITICA REQD ST MAX/MIN BASIC/R 	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM	84.6 2, ROW= PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY : +VE/-VE)	6 KN-MET AT 0093, ROWMX= 878./ 45./ 'H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ 'H = 177./	566.MM, LO .0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO .0194 ROWMN= 222.MMS 359.MMS	AD 26 .0033 YES AD 13 .0033	NO
CRITICA CRITICA MAX/MIN BASIC/R CRITICA CRITICA REQD ST MAX/MIN BASIC/R 	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM SINF. STEEL SU REINF STEEL ((SQ. MM	84.6 2, ROW= PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY : +VE/-VE))	6 KN-MET AT 0093, ROWMX= 878./ 45./ 14 = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ 24 = 177./ MOMENTS(+ (KNS-)	566.MM, LO .0194 ROWMN= 220. MMS 579. MMS 359. 0.MM, LO .0194 ROWMN= 222. MMS 359. MMS 259. MMS	AD 26 .0033 YES AD 13 .0033	NO /-VE)
CRITICA REQD ST MAX/MIN BASIC/R CRITICA CRITICA REQU ST MAX/MIN BASIC/R BASIC/R CRITICA REQUIRED RE SECTION (MM) 0. 47.	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM SINF. STEEL SU REINF STEEL ((SQ. MM 543./ 627./	84.6 2, ROW= PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY : +VE/-VE)	6 KN-MET AT 0093, ROWMX= 878./ 45./ 'H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ 'H = 177./ MOMENTS(+'	566.MM, LO .0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO .0194 ROWMN= 222.MMS 359.MMS	AD 26 .0033 YES AD 13 .0033 OAD(+VE 26/ 26/	NO /-VE)
CRITICA REQD ST MAX/MIN BASIC/R CRITICA REQD ST MAX/MIN BASIC/R BASIC/R REQUIRED RE SECTION (MM) 0. 47. 94.	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM SINF. STEEL SU REINF STEEL SU REINF STEEL ((SQ. MM 543./ 627./ 712./	84.6 2, ROW= . PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY : +VE/-VE)) 21. 0. 0.	6 KN-MET AT 0093, ROWMX= 878./ 45./ 1H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ 2H = 177./ MOMENTS(+ (KNS-i 31./ 35./ 40./	566.MM, LO 0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO 0194 ROWMN= 222.MMS 359.MMS VE/-VE) L MET) 1. 0. 0.	AD 26 .0033 YES AD 13 .0033 .0033 .004D(+VE 26/ 26/	NO /-VE) 13 0
	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM :INF. STEEL SU REINF STEEL SU REINF STEEL ((SQ. MM 543./ 627./ 712./ 797./ 882./	84.6 2, ROW= . PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY : +VE/-VE)) 21. 0. 0. 0. 0. 0.	6 KN-MET AT 0093, ROWMX= 878./ 45./ H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ 2H = 177./ MOMENTS(+' (KNS-i 31./ 35./ 40./ 45./ 49./	566.MM, LO 0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO 0194 ROWMN= 222.MMS 359.MMS VE/-VE) L MET) 1. 0. 0. 0. 0. 0.	AD 26 .0033 YES AD 13 .0033 	NO /-VE) 13 0 0 0
	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM SINF. STEEL SU REINF STEEL SU REINF STEEL ((SQ. MM 543./ 627./ 712./ 797./ 882./ 969./	84.6 2, ROW= . PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY : +VE/-VE)) 21. 0. 0. 0. 0. 0. 0.	6 KN-MET AT 0093, ROWMX= 878./ 45./ H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ 2H = 177./ MOMENTS(+' (KNS-) 31./ 35./ 40./ 45./ 49./ 54./	566.MM, LO 0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO 0.0194 ROWMN= 222.MMS 359.MMS VE/-VE) L MET) 1. 0. 0. 0. 0. 0. 0. 0.	AD 26 .0033 YES AD 13 .0033 	NO NO 1 1 1 1 1 0 0 0 0 0 0 0 0
	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM :INF. STEEL SU REINF STEEL SU REINF STEEL ((SQ. MM 543./ 627./ 712./ 797./ 882./	84.6 2, ROW= PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY : +VE/-VE)) 21. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	6 KN-MET AT 0093, ROWMX= 878./ 45./ H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ 2H = 177./ MOMENTS(+ (KNS-i 31./ 35./ 40./ 45./ 49./	566.MM, LO 0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO 0194 ROWMN= 222.MMS 359.MMS VE/-VE) L MET) 1. 0. 0. 0. 0. 0.	AD 26 .0033 YES AD 13 .0033 	NO NO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM SINF. STEEL SU REINF STEEL SU REINF STEEL ((SQ. MM 543./ 627./ 712./ 797./ 882./ 969./ 1056./ 1144./ 1233./	84.6 2, ROW= PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY : +VE/-VE)) 21. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	6 KN-MET AT 0093, ROWMX= 878./ 45./ H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ H = 177./ MOMENTS(+' (KNS-) 31./ 35./ 40./ 45./ 49./ 54./ 58./ 63./ 67./	566.MM, LO 0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO 0.0194 ROWMN= 222.MMS 359.MMS VE/-VE) L MET) 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	AD 26 .0033 YES AD 13 .0033 	NO NO NO NO NO NO NO NO NO NO NO NO NO N
	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM SINF. STEEL SU REINF STEEL SU REINF STEEL SU REINF STEEL ((SQ. MM 543./ 627./ 712./ 797./ 882./ 969./ 1056./ 1144./	84.6 2, ROW= PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY : +VE/-VE)) 21. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	6 KN-MET AT 0093, ROWMX= 878./ 45./ H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ H = 177./ MOMENTS(+' (KNS-) 31./ 35./ 40./ 45./ 49./ 54./ 58./ 63./	566.MM, LO 0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO 0.0194 ROWMN= 222.MMS 359.MMS VE/-VE) L MET) 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	AD 26 .0033 YES AD 13 .0033 	NO NO NO NO NO NO NO NO NO NO NO NO NO N
	L POS MOMENT= EEL= 1521.MM /ACTUAL BAR S EQD. DEVELOPM 166. 5 - L NEG MOMENT= EEL= 554.MM /ACTUAL BAR S EQD. DEVELOPM SINF. STEEL SU REINF STEEL ((SQ. MM 543./ 627./ 712./ 797./ 882./ 969./ 1056./ 1144./ 1233./ 1322./	84.6 2, ROW= . PACING= ENT LENGT 12MM 1.2 2, ROW= PACING= ENT LENGT MMARY : +VE/-VE)) 21. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	6 KN-MET AT 0093, ROWMX= 878./ 45./ H = 493./ 0. 25 KN-MET AT 0033, ROWMX= 886./ 37./ H = 177./ MOMENTS(+' (KNS-) 31./ 35./ 40./ 45./ 49./ 54./ 58./ 63./ 67./ 71./	566.MM, LO 0194 ROWMN= 220.MMS 579.MMS 359. 0.MM, LO 0.0194 ROWMN= 222.MMS 359.MMS VE/-VE) L MET) 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	AD 26 .0033 YES AD 13 .0033 	NO NO NO NO NO NO NO NO NO NO NO NO NO N

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BEAM NO. 12 DESIGN RESULTS - SHEAR AT START SUPPORT - Vu= 99.33 KNS Vc= 132.52 KNS Vs= .00 KN PROVIDE 12 MM BARS AT 80. MM C/C FOR 566. MM .00 KNS AT END SUPPORT - Vu= 97.44 KNS Vc= 132.52 KNS Vs= .00 KNS PROVIDE 12 MM BARS AT 80. MM C/C FOR 566. MM 9J 565X 999X 249 10J 5No20cHc188. 0.TO 566 1 ł 9*12c/c 80 ______ ----00000 Т 00000 5#12 5#12 L 5#20 Т

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BEAMNO. 13 DESIGNRESULTS - FLEXURE

LEN	-	560. MA	4 FY -	414. FC	- 25.	MPA, S.	IZE - 1000.	X 250). MMS
				A STATE OF A					
LEVE	L	HEIGHT	C BA	R INFO	FROM		TO	AN	ICHOR
		(MM)			(MM)		(MM)	STA	A END
	e e de	en großer			an sa Ne	1.11	la de la esta est		al Maria

 1
 88.
 3 - 20MM
 0.
 560.
 YES
 YES

 CRITICAL POS MOMENT=
 54.15 KN-MET
 AT
 0.MM, LOAD
 25 |

 REQD STEEL=
 937.MM2, ROW=
 .0057, ROWMX=
 .0194 ROWMN=
 .0033 |

 MAX/MIN/ACTUAL BAR SPACING=
 878./
 45./
 439. MMS
 |

 BASIC/REQD.
 DEVELOPMENT
 LENGTH =
 493./
 595. MMS
 |

REQUIRED REINF. STEEL SUMMARY :

SECTION	REINF STEEL(+VE/-VE)	MOMENTS (+VE/-VE)	LOAD(+VE/-VE)
(MM)	(SQ. MM)	(KNS-MET)	
	일하는 말 것을 가지 않는 것을 했다.		
0,	980./ 0.	54./ 0.	25/ 0 4
47.	924./ 0.	51./ 0.	25/ 0
93.	869./	48./ 0.	25/ 0
140.	814./ 0.	45./ 0.	25/ 0
187.	759./ 0.	43./ 0.	25/ 0
233.	704./ 0.	40./ 0.	25/ 0
280.	649./ 0.	37./ 0.	25/ 0
327.	594./ 0.	34./ 0.	25/ 0
373.	540./ 0.	31./ 0.	25/ 0
420.	485./ 0.	28./ 0.	25/ 0
467.	431./ 0.	25./ 0.	25/ 0
513.	376./ 0.	22./ 0.	25/ 0
560.	322./ 0.	19./ 0.	25/ 0

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AT END SUE	PROV PPORT - Vu=	IDE 12 MM 64.46 K	NS VC= 132. BARS AT 80. NS VC= 132. BARS AT 80.	52 KNS Vs=	560, M .00	M KNS
10J		559	x 999x 249		· · · · · · · · · · · · · · · · · · ·	11J
3No20cHc 88.	0.ТО 560				9*12c/	'c 80
3#20 		 3#20 	000	3#20	000	
BEA	M NO. 14	IDESI	GNRES	JLTS-FI	LEXURE	
LEN - 565.	MM FY - 4	114. FC -	25. MPA,	SIZE - 1000.	X 250.	MMS
LEVEL HEI (M	GHT BAR M)	INFO	FROM (MM)	TO (MM)	ANC STA	HOR END
CRITICAL CRITICAL REQD STE MAX/MIN/	POS MOMENT EL= 554.M ACTUAL BAR	= 18.5 M2, ROW= SPACING=	0. 57 KN-MET AT .0033, ROWMX= 886./ 37.	0.MM, L .0194 ROWMN	OAD 25 = .0033	l I
BASIC/RE	SQD. DEVELOP					ŀ
BASIC/RE						YES
BASIC/RE 	L66. 5 - L NEG MOMENT SEL= 554.M /ACTUAL BAR	12MM = 11. M2, ROW= SPACING=	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./	565. 565.MM, L .0194 ROWMN / 222. MMS	YES OAD 16 = .0033	
BASIC/RE 	L66. 5 - L NEG MOMENT SEL= 554.M /ACTUAL BAR	12MM = 11. M2, ROW= SPACING= MENT LENG	0. 16 KN-MET AT .0033, ROWMX= 886./ 37.	565. 565.MM, L .0194 ROWMN / 222. MMS	YES OAD 16 = .0033	
BASIC/RE 2 1 CRITICAL REQD STE MAX/MIN/ BASIC/RE REQUIRED REI 	L66. 5 - L NEG MOMENT CEL= 554.M (ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL S	12MM = 11. M2, ROW= SPACING= MENT LENG 	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS (565. 565.MM, L .0194 ROWMN / 222. MMS 359. MMS 359. MMS	YES OAD 16 = .0033	
BASIC/RE 2 1 CRITICAL REQD STE MAX/MIN/ BASIC/RE REQUIRED REI	L66. 5 - L NEG MOMENT GEL= 554.M (ACTUAL BAR GQD. DEVELOP LNF. STEEL S	12MM = 11. M2, ROW= SPACING= MENT LENG 	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS (565. 565.MM, L .0194 ROWMN / 222. MMS 359. MMS	YES CAD 16 = .0033	
BASIC/RE 2 1 CRITICAL REQD STE MAX/MIN/ BASIC/RE REQUIRED REI 	L66. 5 - L NEG MOMENT CEL= 554.M (ACTUAL BAR 2QD. DEVELOP INF. STEEL S REINF STEEL S REINF STEEL (SQ. MM 322./	12MM = 11. M2, ROW= SPACING= MENT LENG 	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS ((KNS 19./	565. 565.MM, L .0194 ROWMN / 222.MMS 359.MMS 359.MMS +VE/-VE) 5-MET) 0.	YES OAD 16 = .0033 LOAD(+VE 25/	())) (-VE)
BASIC/RE 2 1 CRITICAL REQD STE MAX/MIN/ BASIC/RE REQUIRED REI 	L66. 5 - L NEG MOMENT CEL= 554.M /ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL S (SQ. MM 322./ 293./	12MM = 11. M2, ROW= SPACING= MENT LENG UMMARY : .(+VE/-VE) .) 0. 0.	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS ((KNS 19./ 17./	565. 565.MM, L .0194 ROWMN / 222.MMS 359.MMS 359.MMS +VE/-VE) 5-MET) 0. 0.	YES OAD 16 = .0033 LOAD (+VE 25/ 25/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BASIC/RE 2 1 CRITICAL REQD STE MAX/MIN/ BASIC/RE REQUIRED REI 	L66. 5 - L NEG MOMENT CEL= 554.M (ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL S (SQ. MM 322./ 293./ 264./	12MM = 11. M2, ROW= SPACING= MENT LENG UMMARY : .(+VE/-VE))) 0. 0. 0. 0.	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS((KNS 19./ 17./ 15./	565. 565.MM, L .0194 ROWMN / 222.MMS 359.MMS 359.MMS +VE/-VE) 5-MET) 0. 0. 0. 0.	YES OAD 16 = .0033 LOAD (+VE 25/ 25/ 25/ 25/	
BASIC/RE 2 1 CRITICAL REQD STE MAX/MIN/ BASIC/RE REQUIRED REI 	L66. 5 - L NEG MOMENT CEL= 554.M /ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL S (SQ. MM 322./ 293./ 264./ 234./	12MM = 11. M2, ROW= SPACING= MENT LENG UMMARY : .(+VE/-VE))) 0. 0. 0. 0. 0. 0.	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS ((KNS 19./ 17./ 15./ 14./	565. 565.MM, L .0194 ROWMN / 222.MMS 359.MMS 359.MMS (+VE/-VE) S-MET) 0. 0. 0. 0. 0. 0.	YES OAD 16 = .0033 LOAD (+VE 25/ 25/ 25/ 25/ 25/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BASIC/RE 	L66. 5 - L NEG MOMENT CEL= 554.M /ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL S (SQ. MM 322./ 293./ 264./ 234./ 204./	12MM = 11. M2, ROW= SPACING= MENT LENG UMMARY : (+VE/-VE)) 0. 0. 0. 0. 0. 8.	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS((KNS 19./ 17./ 15./ 14./ 12./	565. 565.MM, L .0194 ROWMN / 222.MMS 359.MMS 359.MMS +VE/-VE) 5-MET) 0. 0. 0. 0.	YES OAD 16 = .0033 LOAD (+VE 25/ 25/ 25/ 25/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BASIC/RE 	L66. 5 - L NEG MOMENT SEL= 554.M /ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL (SQ. MM 322./ 293./ 264./ 234./ 204./ 175./	12MM = 11. M2, ROW= SPACING= MENT LENG UMMARY : .(+VE/-VE)) 0. 0. 0. 0. 0. 0. 0. 30.	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS ((KNS 19./ 17./ 15./ 14./	565. 565.MM, L .0194 ROWMN / 222.MMS 359.MMS 359.MMS +VE/-VE) S-MET) 0. 0. 0. 0. 0. 0. 0. 0. 0.	YES OAD 16 = .0033 LOAD(+VE 25/ 25/ 25/ 25/ 25/ 25/ 25/	
BASIC/RE 	L66. 5 - L NEG MOMENT CEL= 554.M /ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL S (SQ. MM 322./ 293./ 264./ 234./ 204./	12MM = 11. M2, ROW= SPACING= MENT LENG 	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS((KNS 19./ 17./ 15./ 14./ 12./ 10./	565. 565.MM, L .0194 ROWMN / 222.MMS 359.MMS 359.MMS +VE/-VE) S-MET) 0. 0. 0. 0. 0. 0. 0. 2.	YES OAD 16 = .0033 LOAD(+VE 25/ 25/ 25/ 25/ 25/ 25/ 25/ 25/	
BASIC/RE 	L66. 5 - L NEG MOMENT SEL= 554.M /ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL S REINF STEEL (SQ. MM 322./ 293./ 264./ 234./ 204./ 175./ 145./	12MM = 11. M2, ROW= SPACING= MENT LENG 	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS((KNS 19./ 17./ 15./ 14./ 12./ 10./ 8./	565. 565.MM, L .0194 ROWMN / 222.MMS 359.MMS 359.MMS -MET) 0. 0. 0. 0. 0. 0. 0. 0. 0. 3.	YES OAD 16 = .0033 LOAD (+VE 25/ 25/ 25/ 25/ 25/ 25/ 25/ 25/ 25/ 25/	
BASIC/RE 	L66. 5 - L NEG MOMENT SEL= 554.M /ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL S REINF STEEL (SQ. MM 322./ 293./ 264./ 234./ 204./ 175./ 145./ 114./ 86./ 57./	12MM = 11. M2, ROW= SPACING= MENT LENG UMMARY : (+VE/-VE)) 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS((KNS) 19./ 17./ 15./ 14./ 12./ 10./ 8./ 7./ 5./ 3./	565. 565.MM, L .0194 ROWMN / 222.MMS 359.MMS 359.MMS (+VE/-VE) 5-MET) 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	YES OAD 16 = .0033 LOAD (+VE 25/ 25/ 25/ 25/ 25/ 25/ 25/ 25/	
BASIC/RE 	L66. 5 - L NEG MOMENT SEL= 554.M (ACTUAL BAR EQD. DEVELOP INF. STEEL S REINF STEEL S REINF STEEL (SQ. MM 322./ 293./ 264./ 234./ 204./ 175./ 145./ 114./ 86./	12MM = 11. M2, ROW= SPACING= MENT LENG 	0. 16 KN-MET AT .0033, ROWMX= 886./ 37. TH = 177./ MOMENTS((KNS) 19./ 17./ 15./ 14./ 12./ 10./ 8./ 7./ 5./	565. 565.MM, L .0194 ROWMN / 222.MMS 359.MMS 	YES OAD 16 = .0033 LOAD (+VE 25/ 25/ 25/ 25/ 25/ 25/ 25/ 25/ 25/ 25/	

BEAM NO. 13 DESIGN RESULTS - SHEAR

BOX CULVERT AT CH. 2+760 (BOX)

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BEAM NO. 14 DESIGN RESULTS - SHEAR 36.02 KNS Vc= 132.52 KNS Vs= AT START SUPPORT - Vu= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 37.90 KNS Vc= 132.52 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. 11J 564X 999X 249 12J 5No12 H 184. 0.TO 565 ł 00000 00000 00000 ł 1 5#12 5#12 1 | 5#12 Į. 00000 i 00000 00000 ÷ ţ 1 - 1 BEAM NO. 15 DESIGN RESULTS - FLEXURE 565. MM FY - 414. FC - 25. MPA, SIZE - 1000. X 250. MMS LEN -LEVEL HEIGHT BAR INFO FROM то ANCHOR (MM) (MM) (MM) STA END 166. 1 5 - 12MM 0. 565. YES YES _____ ____ ____ 11.16 KN-MET AT CRITICAL NEG MOMENT= 0.MM, LOAD 16 | REQD STEEL= 554.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 MAX/MIN/ACTUAL BAR SPACING= 886./ 37./ 222.MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359.MMS t l

REQUIRED REINF. STEEL SUMMARY :

عرجا جذبت كالمرجو كأك			后于 出现 计分子 化浓油	1. The second	
SECTION	REINF STEEL(+VE/-VE)	MOMENT'S (+V	E/-VE)	LOAD(+VE/-VE)
(MM)	(SQ. MM) - <u>A</u> richaela	(KNS-M	ET)	
0.	0./	192.	0./	11.	0/ 16
47.	0./	185.	0./	11.	0/ 16
94.	0./	178.	0./	10.	0/ 16
141.	0./	172.	0./	10.	0/ 16
188.	0./	166.	0./	10.	0/ 16
235.	0./	160.	0.7	9.	0/ 16
282.		154.	0./	9	0/ 16
330.	0./	149	0./	9.	0/ 16
377.	0./	144	0./	8.	0/ 16
424.	0./	145.	0./	8.	0/ 13
471.	0./	149.	0./	9.	0/ 13
518.	0./	158.	0./	9.	0/ 14
565.	0./	170.	.0./	10.	0/ 14
가지 가지 않는 것이 가지 않는 것이다.	(a) A set of the se	and the second second	(a) A set of a set	· · · · ·	and the second

BOX	CULVERT	AT CH.	2+760	(BOX)
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BEAM NO. 15 DESIGN RESULTS - SHEAR AT START SUPPORT - Vu= 11.32 KNS Vc= 132.52 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. SUPPORT - Vu= 13.21 KNS Vc= 132.52 KNS Vs= .00 KNS AT END STIRRUPS ARE NOT REQUIRED. 13J 564X 999X 249 12J ----5No12 H 166. 0.TO 565 1 00000 00000 00000 1 1 1 5#12 | 5**#12** 1 1 5#12 3 1 BEAM NO. 16 DESIGN RESULTS - FLEXURE LEN - 565. MM FY - 414. FC - 25. MPA, SIZE - 1000. X 250. MMS LEVEL HEIGHT BAR INFO FROM TO . ANCHOR STA END (MM) (MM) (MM).**1**. %. 5 - 12MM 0. 565. YES YES 84. ______ ------------____ CRITICAL POS MOMENT= 16.90 KN-MET AT 565.MM, LOAD 22 | REQD STEEL= 554.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 | MAX/MIN/ACTUAL BAR SPACING= 886./ 37./ 222. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 352. MMS 2 166. 5 - 12MM 0. 565. YES 1 YES YES CRITICAL NEG MOMENT= 9.87 KN-MET AT 0.MM, LOAD 14 1 ł REQD STEEL= 554.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 | MAX/MIN/ACTUAL BAR SPACING= 886./ 37./ 222. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS T ______ REQUIRED REINF. STEEL SUMMARY : MOMENTS (+VE/-VE) LOAD (+VE/-VE) SECTION REINF STEEL (+VE/-VE) (SQ. MM) (KNS-MET) (MM) 0/ 14 170. 0./ 10. 0. 0./ 159. 0/ 19 9. 47. 0.7 0./ 0/ 19 9. 0./ 0./ 94. 149 8. 26/ S. 7.7 0./ 19 140. 141. 130. 2.1 8 26/ 19 188 28./ 22/ 19 57.1 3./ 7. 235. 121. 91./ 7. 221 19 5./ 282. 113. 7./ 6 22/ 19 330. 125./ 104. _2/ 19 22/ 1 20 9./ 6. 377. 159./ 96. 5. 193.7 89. 11./ 424. 22/ 19 5. 471. 226./ 81. 13./ 259./ 22/ 19 518. 74. 15./ 4. 22/ 19 293./ 67. 17./ 4. 565.

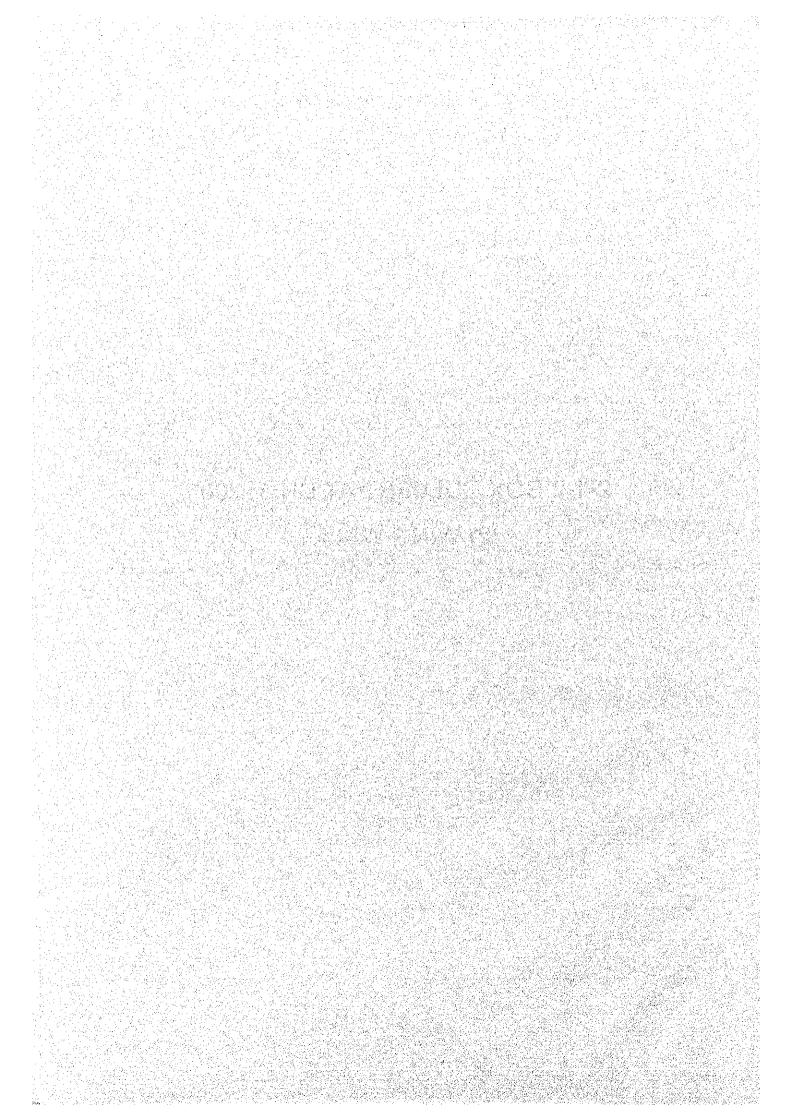
BOX CULVERT AT CH. 2+760 (BOX)

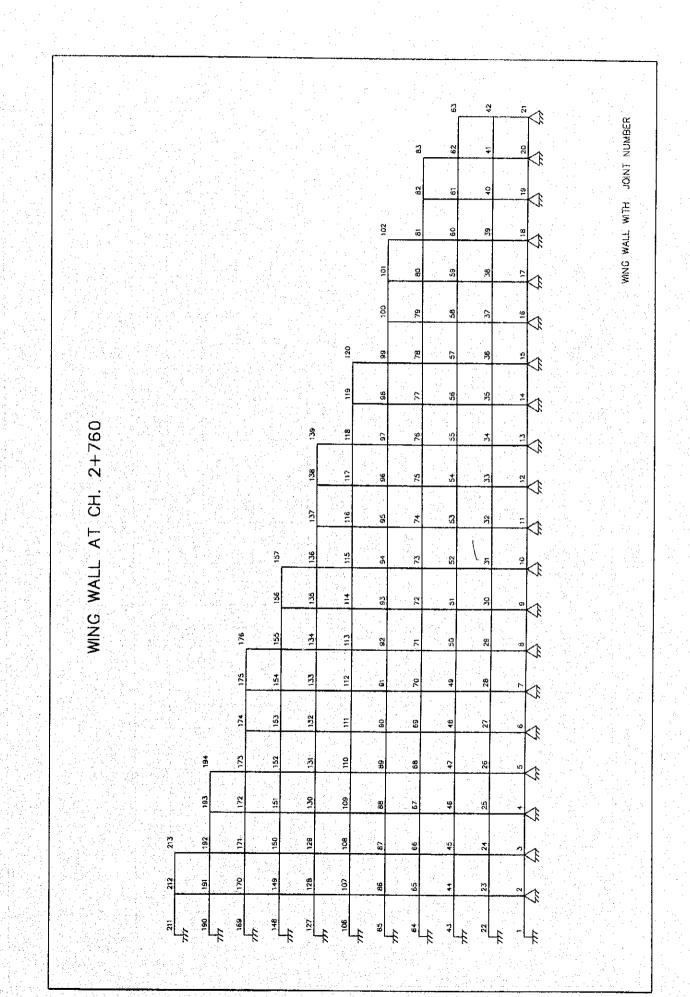
	SUPPORT - VII=	42.93 K	NS $Vc = 132.52$	KNS Ve-	. · [·] · ∩∩	KNS
III OIIIII			NOT REQUIRED.	1010 43-	00	((N))
AT END			NS Vc= 132.52	KNS Vs≠	.00	KNS
	STI	RRUPS ARE	NOT REQUIRED.	a to see	The second second	
				s i tra cato	العامين. المحمد الرحمات	
13J		564	X 999X 249	. · · · ·		14J
		93900 - 7				
SNo12 H 18	34. 0.ТО 56	5				

						e di be
<u> </u>	<u>e e e a trafa da esta e</u> Trafa en esta esta esta esta esta esta esta esta	<u>ang sa </u>	and the second		- 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	· · · · · ·
	The second second 1					
00	0000		00000		00000	
5#12	i i shekari	5#12		5#12		
00	0000		00000		00000	
	$(1, 1) \in \mathbb{R}^{n}$				e de la composition de la composition de l	
	I			l <u>l</u>	n de gaterie. Terrete a la contra	
				en de la composition Composition de la composition		
В	EAM NO. 1	7 DESI	GN RESUL	TS-E	LEXURE	
LEN - 50	55. MM FY -	414. FC -	25. MPA, SIZH	E - 1000.	X 250.	MMS
LEVEL I	HEIGHT BAR	INFO		ТО	ANC	
	(MM)		(MM)	(MM)	STA	END
and the second	en e	n an		n an traini Table - train	<u> </u>	
1	84. 10 -	12MM	0.	565.	YES	YES
1	84. 10 -	12MM	0.	565.	YES	YES
	CAL POS MOMENT	= 61.3	6 KN-MET AT		.OAD 22	
I REOD	CAL POS MOMENT STEEL= 1056.M	= 61.3 M2, ROW=	6 KN-MET AT 3 0064, ROWMX= .03	565.MM, L 194 ROWMN	OAD 22 I= .0033	
I REQD	CAL POS MOMENT STEEL= 1056.M IN/ACTUAL BAR	= 61.3 M2, ROW= . SPACING=	6 KN-MET AT 9 0064, ROWMX= .0 886./ 37./	565.MM, L 194 ROWMN 98. MMS	OAD 22 I= .0033	
I REQD	CAL POS MOMENT STEEL= 1056.M IN/ACTUAL BAR	= 61.3 M2, ROW= . SPACING=	6 KN-MET AT 3 0064, ROWMX= .03	565.MM, L 194 ROWMN 98. MMS	OAD 22 I= .0033	
I REQD	CAL POS MOMENT STEEL= 1056.M IN/ACTUAL BAR	= 61.3 M2, ROW= . SPACING=	6 KN-MET AT 9 0064, ROWMX= .0 886./ 37./	565.MM, L 194 ROWMN 98. MMS	OAD 22 I= .0033	
I REQD	CAL POS MOMENT STEEL= 1056.M IN/ACTUAL BAR	= 61.3 M2, ROW= . SPACING= MENT LENGT	6 KN-MET AT 9 0064, ROWMX= .01 886./ 37./ H = 177./ 33	565.MM, L 194 ROWMN 98. MMS	OAD 22 I= .0033	
REQD S MAX/MI BASIC, 	CAL POS MOMENT STEEL= 1056.M IN/ACTUAL BAR /REQD. DEVELOP 166. 5 -	= 61.3 M2, ROW= SPACING= MENT LENGT 12MM	6 KN-MET AT 9 0064, ROWMX= .0 886./ 37./ H = 177./ 33 0.	565.MM, L 194 ROWMN 98.MMS 35.MMS 453.	OAD 22 I= .0033 YES	
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BEAM NO. 17 DESIGN RESULTS - SHEAR AT START SUPPORT - Vu= 79.62 KNS Vc= 132.52 KNS Vs= .00 KN PROVIDE 12 MM BARS AT 80. MM C/C FOR 565. MM .00 KNS SUPPORT - Vu= 77.74 KNS Vc= 132.52 KNS Vs= .00 KNS AT END PROVIDE 12 MM BARS AT 80. MM C/C FOR 565. MM 14J 564X 999X 249 : 15J ******** 10No12cHc184. 0.TO 565 9*12c/c 80 1 00000 ł 00000 - 1 110#12 5#12 1 5#12 ł 0000000000 0000000000 1 0000000000 123. END CONC DESIGN 124. FINISH **** DATE= JAN 30,2000 TIME= 10:19:35 **** For questions on STAAD-III, contact: Research Engineers, Inc at West Coast: Ph- (714) 974-2500 Fax- (714) 921-2543 East Coast: Ph- (508) 688-3626 Fax- (508) 685-7230

2-1-2 BOX CULVERT AT CH.3+760 (2) WING WALL





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STAAD-III Revision 22.3a Proprietary Program of Research Engineers, Inc. Date= JAN 29, 2000 Time= 15: 9:31 USER ID: Development Design Consultants L ***** 1. STAAD SPACE 2. UNIT KNS METER 3. PAGE EJE 4. JOI COO 5. 1 0.000 0.000 0.000 21 6.70 0.000 0.000 2 0.000 0.000 0.295 6. R 7.64 0.000 0.000 0.885 83 6.365 0.000 0.885 8. 85 0.000 0.000 1.180 102 5,695 0.000 1.180 9.106 0.000 0.000 1.475 4.690 0.000 1.475 120 10. 127 0.000 0.000 1.770 139 4.020 0.000 1.770 11. 148 0.000 0.000 2.065 157 3.015 0.000 2.065 12. 169 0.000 0.000 2.360 176 2.345 0.000 2.360 13. 190 0.000 0.000 2.655 194 1.340 0.000 2.655 14. 211 0.000 0.000 2.950 213 0.670 0.000 2.950 16. MEM INC 17. *HORIZONTAL MEMBER 18.1 2 20 1. 1 1 21 19. R 2 20 20. 61 79 64 65 1 1 21. 81 85 97 86 1 1 22. 101 23. 121 106 107 114 1 1 127 128 132 1 1 24. 141 148 149 149 1 1 25. 161 170 169 167 1 1 190 26. 181 191 184 1 1 27. 191 211 212 192 1 1 28. *VERTICAL MEMBER (START WITH 301) ູ 2 29. 201 23 210 1 21 30. R 101 1 : 31. 221 32. R 4 25 229 1 21 10 1 1 33. 241 6 27 248 1 21 34. R 35. 271 36. R 2 10 1 277 9 30 21 1 1 10 1 37. 291 32 296 11 1 21 38. R 39. 321 40. R 2 10 1 14 35 325 1 21 1 101 41. 341 344 16 37 1 21 42. R 2 10 1 🖉 43. 371 44. R 19 40 373 1 21 1 10 1. 45. 391 21 42 392 1 21 47. MEM PRO 1.500 ZD 0.25 IX 48.1 TO 20 PRI YD 1E - 0649.21 TO 40 PRI YD 0.250 ΖĎ 0.295 IX 1E-06 50. 41 то 60 PRI YD 0.250 0.295 IX :2D 1E - 0651. 61 ΤÒ 79 PRI YD 0.250 ΖD 0.295 IX 1E - 060.295 IX 52. 81 97 ТÓ PRI YD 0.250 ZD 1E - 0653. 101 TO 114 PRI ΥD 0.250 0.295 IX ΖD 1E-06 54. 121 0.250 ZD ΤÖ 132 PRI YD 0.295 IX 1E - 0655. 141 0.250 TO 149 PRI YD ZD 0.295 IX 1E - 0656. 161 57. 181 58. 191 TO PRI YD 0.250 167 ZD 0.295 IX 1E-06 0.295 IX TO 184 PRI YD 0.250 ΖD 1E-06 TO 192 PRI Ϋ́D 0.250 ΖD 0.295 IX 1E-06 59. *VERTICAL

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184.100 $\Box FY$ 0.00 185.101 FY 0.00 186.102 FY 0.00 187.107 FY -1.96 188.108 FY -1.81 189.109 FY -1.66 190.110 FY -1.66 190.110 FY -1.36 192.112 FY -1.05 194.114 FY -0.90 195.115 FY -0.75 196.116 FY 0.00 197.117 FY 0.00 199.119 FY 0.00 200.120 FY 0.00 201.128 FY -1.37			FY	<u>^</u>	00
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194. 114 FY -0.90 195. 115 FY -0.75 196. 116 FY 0.00 197. 117 FY 0.00 198. 118 FY 0.00 199. 119 FY 0.00 200. 120 FY 0.00 201. 128 FY -1.37					0.5
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197. 117 FY 0.00 198. 118 FY 0.00 199. 119 FY 0.00 200. 120 FY 0.00 201. 128 FY -1.37					
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200.120 FY 0.00 201.128 FY -1.37		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
201. 128 FY -1.37					
201. 128 FY -1.37	200	120	FY	0.	100 .
202. 129 FY -1.21				and the second second	
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	State 7, 14	n de la com	1.7.97		ente Guine de la composition

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BOX CULVERT AT CH. 2+760 (WING WALL)

			(1,1)	1	1997
	203.	130	ĘΥ		-1.06
1	204.	131	FY		-0.91
	205.	132	FY		-0.76
Ċ	206.	133	FΥ		-0.61
	207.	134	FY		-0.46
	208.	135	FY		-0.30
·	209.	136	EY		-0.15
	210.	137	ΕY		0.00
5	211.	138	ΕY		0.00
	212.	139	FY	1.1	0.00
ς.	213.	149	ΈY	2	-0.99
1	214.	150	EY		-0.83
1	215.	151	FY	÷	-0,68
÷.	216.	152	ΕY		-0.53
1	217.	153	FΥ		-0.38
1	218.	154	εY	1.2	-0.23
	219.	155	FY		-0.08
	220.	156	ΕY	1.1	0.00
	221.	157	FY	ана на При на	0.00
÷	222.	170	FY		-0.61
	223.	171	ΕY	1.2	-0.46
	224.	172	FY		-0.30
14	225.	173	FY	÷.,	-0.15
÷.	226.	174	FY		0.00
· ``.	227,	175	ΕY		0.00
, i i	228.	176	ΕY	1	0.00
	229.	191	FY	· ·	-0.23
1	230.	192	EY.	4.4.5	-0.08
	231.	193	FY		0.00
	232	194	FY	•	0.00
	233.	212	FY FY		0.00
	234.	213	ĽΥ		0.00

236. PER ANA

P	R	0	B	Ľ	E	м	s	T	A	T	ĩ	s	т	Ī	Ċ	s	•
	·	•		• — -	•		 									-	

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/ 243.8 MB, EXMEM = 1965.6 MB ++ Processing Element Stiffness Matrix. 15: 9:31 ++ Processing Global Stiffness Matrix. 15: 9:31 ++ Processing Triangular Factorization. 15: 9:31 ++ Calculating Joint Displacements. 15: 9:31 ++ Calculating Member Forces. 15: 9:31

237. PRINT MEM FORCES

М	EMBER	END	FORCES		STRU	CTURE	TYPE	=	SPACE	
	1997 B.	- 14 - L	and provide the	1.2		(4) (1) (1)	. 프 11 M M AL			
_					ear a fillian	· · ·		· · ·		
	N 4 1	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	and the second second			이 가지 않는 것		÷11. j	en an trainigh	

ALL UNITS	ARE	KNS	METE	
		N 1872	and the second second	

MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
1	1	1	.00	139.58	.00	.00	.00	253.27
		2	.00	-139.58	.00	.00	.00	-206.51
2	1	2	.00	131.29	.00	.00	.00	206.51
-		. 3	.00	-131.29	.00	.00	.00	-162.52
3	1	3	.00 .00	118.08 -118.08	.00 .00	.00 .00	.00 .00	162.52 -122.97
				110.00	.00		.00	-122.31
4	1	4	.00	102.01	.00	.00	.00	122.96
		5	.00	-102.01	.00	.00	.00	-88.79
5	1	5	.00	84.69	.00	.00	.00	88.79
		6	.00	-84,69	.00	.00	.00	-60.42
6	1	6	.00	67.09	.00	.00	.00	60.42
		7	.00	-67.09	.00	.00	.00	-37.94
7	1	7	.00	49.88	00	00	00	27 04
	-	8	.00	-49.88	.00	.00	.00	37.94 -21.23
8	1	8 9	.00 .00	33.63 -33.63	.00 .00	.00	.00	21.23
			.00	-00.00	.00	.00	.00	-9.97
9	1	9	.00	18.89	.00	.00	.00	9.97
		10	.00	-18.89	.00	.00	.00	-3.64
10	1	10	.00	6.58	.00	.00	.00	3.64
		11	.00	-6.58	.00	.00	.00	-1.43
11	1	11	.00	3.19	.00	.00	.00	1.44
		12	.00	-3.19	.00	.00	.00	37
12	1	12 13	.00 .00	1.66 -1.66	.00 .00	.00 .00	.00 .00	.37 .19
			•••				.00	• • • •
13	· 1	13	.00	.90	.00	.00	.00	19
		14	.00	90	.00	.00	.00	.49
14	1	14	.00	. 38	.00	.00	.00	49
		15	.00	38	.00	.00	.00	. 62
		an 171 mara	and the second	والمراجع والمعادية	and the product of	and the second second second	이 같은 것이 같은 것이 같아. 영화	A star with when you

			:	: · · · · · ·					1. 2+760 (WING WALL)
MEMBER	LOAD	JT		AXIAL	SHEAR-Y	SHEAR-Z	TORSION	МОМ-Ү	MOM-2
15	1	15 16		.00	01 .01	.00 .00	.00 .00	.00 .00	62 .62
16	1	16 17		.00 .00	29 .29	.00 .00	.00 .00	.00 .00	62 .52
17	1	17 18		.00	44 .44	.00	.00 .00	.00 .00	52 .37
18	1	18 19		.00 .00	48 .48	.00 .00	.00 .00	.00 .00	37 .21
19	1	19 20		.00 .00	38 .38	.00 .00	.00 .00	.00. .00	21 .08
20	1	20 21		.00 .00	25 .25	.00	.00 .00	.00 .00	08 .00
21	1	22 23		.00 .00	6.83 -6.83	.00 .00	.00 .00	.00 .00	3.68 -1.39
22	1	23 24		.00.	2.12 -2.12	.00	.00 .00	.00 .00	1.39 68
23	1	24 25		.00 .00	.82 82	.00 .00	• .00 .00	.00 .00	.68 41
24	1	25 26		.00 .00	.53 53	.00 .00	.00 .00	.00 .00	.41 23
25	1	26 27		.00 .00	.41 41	.00 .00	.00 .00	.00 .00	.23 10
26	1	27 28		.00 .00	.31 31	.00 .00	.00 .00	.00 .00	.10 .01
27	1	28 29		.00 .00	.24 24	.00 .00	.00 .00	.00 .00	01 .09
28	1	29 30		.00 .00	.18 18	.00 .00	.00 .00	.00 .00	- 09 .15
29	1	30 31		.00 .00	.04 04	.00 .00	.00 .00	.00 .00	15 .16
30	1	31 32		.00 .00	75 .75	.00 .00	.00 .00	.00 .00	16 09
31	1	32 33		.00 .00	.02 02	.00 .00	.00 .00	.00 .00	.09 08
32	1	33 34		.00 .00	.11 11	.00 .00	.00 .00	.00 .00	.08 05
33	1	34 35		.00 .00	.08 08	.00 .00	.00 .00	.00 .00	.05 02
34	1	35 36		.00 .00	.04 04		.00 .00	.00 .00	.02 01
35	1	36 37		.00 .00	02 . 02		.00 .00	.00 .00	.01 02
36	1	37 38		.00 .00	03 .03		.00 .00	.00 .00	.02 03
37	1	38 39		.00 .00	.03 03		.00 .00	.00 .00	.03 02

· "我们还是我们的你的,我们就是我们的你的。""我们就是我们的你。" "我们们的你们,我们们就是我们的你,你不是你就能帮你的我们就能能能。""我们就是我们

H. 2+760 (WIN	CULVERT AT CI	BOX	······································					
MOM-Z	MOM-Y	TORSION	SHEAR-Z	SHEAR-Y	AXIAL	JT	LOAD	MEMBER
.02	.00 .00	.00 .00	.00 .00	04 .04	.00 .00	39 40	1	38
.03 01	.00 .00	.00	.00 .00	.05 05	.00	40 41	1	39
.01	.00 .00	.00 .00	.00 .00	.04 04	.00 .00	41 42	1	40
4.35 -1.97	.00	.00 .00	.00 .00	7.12 -7.12	.00	43 44	1	41
1.97 72	.00 .00	.00 .00	.00 .00	3.72 -3.72	.00 .00	44 45	1	42
.72 19	.00	.00	.00	1.59 -1.59	.00 .00	45 46	1	43
.19 .05	.00 .00	.00 .00	.00 .00	.70 70	.00 .00	46 47	1	44
05 .17	.00 .00	.00 .00	.00 .00	.38 38	.00 .00	47 48	1	45
17 .25	.00	.00 .00	.00 .00	.24 24	.00	48 49	1	46
25 .31	.00 .00	.00 .00	.00 .00	.16 16	.00	49 50	1	47
31 .33	.00 .00	.00 .00	.00 .00	.07 07	.00 .00	50 51	ì	48
→.33 .26	.00 .00	.00 .00	.00 .00	22 .22	.00 .00	51 52	1	49
26 11	.00 .00	.00 .00	.00 .00	-1.11 1.11	.00 .00	52 53	1	50
.11 16	.00 .00	.00 .00	.00 .00	14 .14	.00 .00	53 54	1	51
.16 13	.00 .00	.00 .00	.00 .00	.10 10	.00 .00	54 55	1	52
.13 09	.00 .00	.00 .00	.00 .00	.12 12	.00 .00	55 56	1	53
.09 05	.00 .00	.00 .00	.00 .00	.11 11	.00 .00	56 57	1	54
.05 08	.00 .00	.00 .00	.00 .00	08 .08	.00 .00	57 58	1	55
.08 11	.00 .00	.00 .00	.00 .00	10 .10	.00 .00	58 59	1	56
.11 08	.00 .00	.00 .00	.00 .00	.09 09	.00 .00	59 60	1	57
.08 08	.00 .00	.00 .00	.00 .00	01 .01	.00 .00	60 61	1	58
.08 07	.00 .00	.00 .00	.00 .00	.04 04	.00 .00	61 62	1	59
.07 .00	.00 .00	.00 .00	.00 .00	.21 21	.00 .00	62 63	1	60

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MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-2	TORSION	MOM-Y	MOMZ
61	1	64 65	.00 .00	7.50 -7.50	.00 .00	.00 .00	.00 .00	4.96 -2.45
62	1	65 66	.00 .00	4.62 -4.62	.00 .00	.00 .00	.00 .00	2.45 90
63	1	66 67	.00 .00	2.43 -2.43	.00 .00	.00 .00	.00 .00	.90 09
64	1	67 68	.00 .00	1.11 -1.11	.00 .00	.00 .00	.00 .00	.09 .28
65	1	68 69	.00 .00	.48 ~.48	.00 .00	.00 .00	.00 .00	28 .44
66	1	69 70	.00 .00	.22 22	.00 .00	.00 .00	.00 .00	44 .52
67	1	70 71	.00 .00	.10 10	.00 .00	.00 .00	.00. .00	52 .55
68	1	71 72	.00.	12 .12	.00 .00	.00 .00	.00 .00	55 .51
69	1	72 73	.00 .00	47 .47	.00 .00	.00 .00	.00 .00	51 .35
70	1	73 74	.00 .00	-1.09 1.09	.00 .00	.00 .00	.00 .00	35 01
71	1	74 75	.00 .00	29 .29	.00 .00	.00 .00	.00 .00	.01 11
72	1 1	75 76	.00 .00	11	.00 .00	.00 .00	.00 .00	.11 14
73	1	76 77	.00	03 .03	.00 .00	.00 .00	.00 .00	.15 15
74	1	77 78	.00 .00	.02 02	.00 .00	.00 .00	.00 .00	.15 15
75	1	78 79	.00 .00	11 .11	.00 .00	.00 .00	.00 .00	.15 18
76	1	79 80	.00 .00	03 .03	.00 .00	.00 .00	.00 .00	.18 19
77	1	80 81	.00 .00	24 .24	.00 .00	.00 .00	.00 .00	.19 28
78	1	81 82	.00 .00	.53 53	.00 .00	.00 .00	.00 .00	.28 10
79	1	82 83	.00 .00	.29 29	.00 .00	.00 .00	.00 .00	.10 .00
81	1	85 86	.00 .00	7.39 -7.39	.00 .00	.00 .00	.00 .00	5.27 -2.79
82	1	86 87	.00 .00	4.96 -4.96	.00 .00	.00 .00	.00 .00	2.79 -1.13
83	1	87 88	.00 .00	2.99 -2.99	.00 .00	.00 .00	.00 .00	1.13 13
84	1	88 89	.00 .00	1.54 -1.54	.00 .00	.00 .00	.00 .00	.13 .39

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11-.79

MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	Mom-y	MOMZ
85	1	89 90	.00	.68 68	.00	.00	.00	39 .62
86	1	90 91	.00	.26 26	.00 .00	.00	.00	62 .70
87	1	91	.00	.13	.00	.00	.00	70
88	1	92 92	.00 .00	13 10	.00	.00	.00	.75
	•	93	.00	.10	.00 .00	.00 .00	.00 .00	75 .71
89	1	93 94	.00 .00	67 .67	.00 .00	.00 .00	.00 .00	71 .49
90	1	94 95	.00 .00	80 .80	.00	.00 .00	.00 .00	49
91	1	95 96	.00 .00	41 .41	.00	.00 .00	.00	22 .08
92	1	96 97	.00	42 .42	.00 .00	.00 .00	.00	08 06
93	1	97 98	.00	27 .27	.00 .00	.00	.00	.06 15
94	1	98 99	.00 .00	78 .78	.00 .00	.00 .00	.00	.15 41
95	1	99 100	.00 .00	.22 22	.00 .00	.00 .00	.00 .00	.41 34
96	1	100 101	.00 .00	.44 44	.00 .00	.00 .00	.00 .00	.34 19
97	1	101 102	.00 .00	.56 56	.00 .00	.00 .00	.00	.19 .00
101	1	106 107	.00 .00	6.76 -6.76	.00 .00	.00 .00	.00 .00	5.24 -2.98
102	1	107 108	.00 .00	4.80 -4.80	.00 .00	.00 .00	.00 .00	2.98 -1.37
103	1	108 109	.00 .00	3.19 -3.19	.00 .00	.00 .00	.00 .00	1.37 ~.30
104	1	109 110	.00.	1.86 -1.86	.00 .00	.00 .00	.00 .00	.30 .32
105	1	110 111	.00 .00	.90 .90	.00 .00	.00 .00	.00 .00	32 .63
106	1	111 112	.00 .00	.41 41	.00 .00	.00 .00	.00 .00	63 .76
107	1	112 113	.00 .00	.22 22	.00 .00	.00 .00	.00 .00	76 .84
108	1	113 114	.00 .00	.38 38	.00 .00	.00 .00	.00 .00	84 .97
109	1	114 115	.00 .00	60 .60	.00 .00	.00 .00	.00 .00	97 .77
110	1	115 116	.00 .00	60 .60	.00 .00	.00 .00	.00 .00	77 .56

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			and a second		······································			
MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM~Z
111	1	116 117	.00 .00	84 .84	.00 .00	.00 .00	.00 .00	56 .28
112	1	117 118	.00	28 .28	.00 .00	.00	.00 .00	28 .19
		1.1.1.1		(Nell Saes				
113	1	118 119	.00 .00	80 .80	.00 .00	.00 .00	.00 .00	19 08
114	1	119 120	.00 .00	.23 23	.00 .00	.00 .00	.00	.08 .00
121	1	127	.00	5.78	.00	.00	.00	4.94
an a	an Adam Alama	128	.00	-5.78	.00	.00	.00	-3.00
122	1	128 129	.00 .00	4.26 -4.26	.00 .00	.00 .00	.00	3.00 -1.57
123	1	129	.00	2.92	.00	.00	.00	1.58
120	-	130	.00	-2.92	.00	.00	.00	60
124	1	130 131	.00 .00	2.07 -2.07	.00 .00	.00 .00	.00 .00	.60 .10
125	1	131	.00	1.00	.00	.00	.00	10
123		132	.00	-1.00	.00	.00	.00	.43
126	. 1	132 133	.00 .00	.88 88	.00 .00	.00 .00	.00 .00	43 .73
127	1	133 134	.00 .00	.36 36	.00 .00	.00 .00	.00 .00	73 .85
128	1	134 135	.00 .00	.72 72	.00 .00	.00 .00	.00 .00	85 1.09
129	1	135 136	.00 .00	1.54 -1.54	.00 .00	.00 .00	.00 .00	-1.09 1.61
130	1	136 137	.00 .00	-2.23 2.23	.00 .00	.00 .00	.00 .00	-1.61 .86
131	1	137 138	.00 .00	-1.52 1.52	.00 .00	.00 .00	.00 .00	86 .35
132	1	138 139	.00 .00	-1.06 1.06	.00 .00	.00 .00	.00 .00	35 .00
141	1	148 149	.00 .00	4.46 -4.46	.00 .00	.00 .00	.00 .00	4.40 -2.91
142	1	149 150	.00 .00	3.60 -3.60	.00 .00	.00 .00	.00 .00	2.91 -1.70
143	1	150 151	.00 .00	2.01 -2.01	.00 .00	.00 .00	.00 .00	1.70 -1.03
144	1	151 152	.00 .00	2.11 -2.11	.00 .00	.00 .00	.00 .00	1.03 32
145	1	152 153	.00 .00	1.14 -1.14	.00 .00	.00 .00	.00 .00	.32 .06
146	1	153 154	.00 .00	1.55 -1.55		.00 .00	.00 .00	06 .58
147	1	154 155	.00 .00	1.69 ~1.69		.00 .00	.00 .00	58 1.14

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		· ·				BOX	ULVERT AT CI	1, 2+760 (WING	WA
MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-2	
148	1	155 156	.00 .00	-1.14 1.14	.00 .00	.00 .00	.00 .00	-1.14 .76	
149	1	156 157	.00 .00	-2.26 2.26	.00	.00 .00	.00 .00	76 .00	t is Kis
161	1	169 170	.00 .00	2.55 -2.55	.00 .00	.00 .00	.00	3.62 -2.76	
162	1	170 171	.00 .00	2.85 -2.85	.00 .00	.00	.00 .00	2.76 -1.81	
163	1	171 172	.00 .00	1.23 -1.23	.00 .00	.00 .00	.00 .00	1.81 -1.39	
164	1	172 173	.00 .00	.30 30	.00	.00	.00 .00	1.39 -1.29	
165	1	173 174	.00 .00	3.43 -3.43	.00.	.00 .00	.00 .00	1.30 15	
166	1	174 175	.00 .00	1.06 -1.06	.00 .00	.00 .00	.00 .00	.15 .21	
167	1	175 176	.00 .00	60 .60	.00	.00 .00	.00 .00	20 .00	
181	1	190 191	.00 .00	1.10 -1.10	.00	.00 .00	.00 .00	2.69 -2.32	
182	1	191 192	.00 .00	70 .70	.00 .00	.00 .00	.00 .00	2.32 -2.56	
183	1	192 193	.00 .00	4.27 -4.27	.00 .00	.00 .00	.00 .00	2.56 -1.13	· · · · · ·
184	1	193 194	.00 .00	3.38 -3.38	.00 .00	.00 .00	.00 .00	1.13	
191	1	211 212	.00 .00	2.88 -2.88	.00 .00	.00 .00	.00 .00	2.12 -1.16	
192	1	212 213	.00 .00	3.44 -3.44	.00 .00	.00 .00	.00 .00	1.16 .00	
201	1	2 23	.00 .00	.93 93	.00 .00	.00 .00	.00 .00	.52 24	
202	1	23 44	.00 .00	1.02 -1.02	.00 .00	.00 .00	.00 .00	.24 .06	
203	1	44 65	.00 .00	.48 48	.00 .00	.00 .00	.00 .00	06 .21	-
204	1	65 86	.00 .00	.07 07	.00 .00	.00 .00	.00 .00	21 .23	· . • . • . •
205	1	86 107	.00 .00	12 .12	.00 .00	.00 .00	.00 .00	23 .19	
206	1	107 128	.00 .00	13 .13	.00 .00	.00 .00	.00 .00	19 .15	
207	1	128 149	.00 .00	.03 03	.00 .00	.00 .00	.00 .00	15 .16	
208	1	149 170	.00 .00	10 .10	.00 .00	.00 .00	.00 .00	16	

MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-2
209	1	170 191	.00 .00	-1.01 1.01	.00 .00	.00 .00	.00 .00	13 16
210	1	191 212	.00 .00	.57 57	.00 .00	.00 .00	.00 .00	.17 .00
211	1	3 24	.00 .00	6.06 -6.06	.00 .00	.00 .00	.00 .00	2.40 61
212	1	24 45	.00 .00	2.90 -2.90	.00 .00	.00 .00	.00 .00	.61 .25
213	1	45 66	.00 .00	1.23 -1.23	.00 .00	.00 .00	.00 .00	25 .61
214	1	66 87	.00 .00	.27 27	.00 .00	.00 .00	.00 .00	61 .69
215	1	87 108	.00 .00	24 .24	.00 .00	.00 .00	.00 .00	69 .62
216	1	108 129	.00 .00	43 .43	.00 .00	.00 .00	.00 .00	62 .49
217	1	129 150	.00. .00	31 .31	.00 .00	.00 .00	.00 .00	49 .40
218	1	150 171	.00 .00	.45 45	.00 .00	.00 .00	.00 .00	40 .54
219	1	171 192	.00 .00	1.61 -1.61	.00 .00	.00 .00	.00 .00	54 1.01
220	1	192 213	.00 .00	-3.44 3.44	.00 .00	.00 .00	.00 .00	-1.01 .00
221	1	4 25	.00 .00	9.12 -9.12	.00 .00	.00 .00	.00 .00	3.93 -1.24
222	1	25 46	.00 .00	5.10 -5.10	.00 .00	.00 .00	.00 .00	1.24 .26
223	1	46 67	.00 .00	2.34 -2.34	.00 .00	.00 .00	.00 .00	26 .95
224	1	67 88	.00 .00	.67 67	.00 .00	.00 .00	.00 .00	95 1.15
225	1	88 109	.00 .00	20 .20	.00 .00	.00 .00	.00 .00	-1.15 1.09
226	1	109 130	.00 .00	53 .53	.00 .00	.00 .00	.00 .00	-1.09 .93
227	1	130 151	.00 .00	74 .74	.00 .00	.00 .00	.00 .00	93 .72
228	1	151 172	.00 .00	-1.53 1.53	.00 .00	.00 .00	.00 .00	72 .26
229	1	172 193	.00 .00	~.89 .89		.00 .00	.00 .00	26 .00
231	1	5 26	.00 .00	10.58 -10.58		.00 .00	.00 .00	4.95 -1.83
232	1	26 47	.00 .00	6.54 -6.54		.00 .00	.00 .00	1.83 .10

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2 - 4 				· · · · · · · · · · · · · · · · · · ·		вох	CULVERT AT CI	1. 2+760 (WING WALL)
MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-2	TORSION	MOM – Y	MOM-2
233	1	47 68	.00 .00	3.36 -3.36	.00 .00	.00 .00	.00 .00	10 1.09
234	1	68 89	.00 .00	1.16 -1.16	.00 .00	.00	.00 .00	-1.09 1.43
235	1	89 110	.00	- 15 .15	.00	.00	.00 .00	-1.43 1.39
236	1	110 131	.00 .00	70 .70	.00 .00	.00	.00 .00	-1.39 1.18
237	1	131 152	.00 .00	54 .54	.00 .00	.00	.00 .00	-1.18 1.02
238	1	152 173	.00 .00	10 .10	.00	.00	.00 .00	-1.02 .99
239	1	173 194	.00 .00	-3.38 3.38	.00 .00	.00 .00	.00 .00	-1.00
241	1	6 27	.00 .00	11.06 -11.06	.00 .00	.00	- 00 - 00	5.50 -2.24
242	1	27 48	.00	7.14 -7.14	.00	.00	.00	2.24 ~.13
243	1	48 69	.00	3.93 -3.93	.00 .00	.00	.00 .00	.13 1.03
244	1	69 90	.00	1.51 -1.51	.00 .00	.00 .00	.00 .00	-1.03 1.47
245	1	90 111	.00 .00	09 .09	.00 .00	.00 .00	.00 .00	-1.47 1.45
246	1	111 132	.00	- 95 .95	.00 .00	.00 .00	.00 .00	-1.45 1.17
247	1	132 153	.00 .00	-1.58 1.58	.00 .00	.00 .00	.00 .00	-1.17 .70
248	1	153 174	.00 .00	-2.38 2.38	.00 .00	.00 .00	.00 .00	70 .00
251	1	7 28	.00 .00	10.87 -10.87	.00 .00	.00 .00	.00 .00	5.65 -2.45
252	1	28 49	.00 .00	7.08 -7.08	.00 .00	.00 .00	.00 .00	2.45 36
253	1	49 70	.00 .00	3.97 -3.97	.00 .00	.00 .00	.00 .00	.36 .81
254	1	70 91	.00 .00	1.56 -1.56	.00 .00	.00 .00	.00 .00	81 1.27
255	1	91 112	.00	- 18 18	.00 .00	.00 .00	.00 .00	-1.27 1.22
256	1	112 133	.00 .00	$\begin{array}{c} -1.19\\ 1.19\end{array}$.00 .00	.00 .00	.00 .00	-1.22 .87
257	1	133 154	.00 .00	-1.29 1.29	.00	.00 .00	.00 .00	87 .49

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MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-2	TORSION	MOMY	MOM-Z
261	1	8 29	.00 .00	10.12 -10.12	.00 .00	.00 .00	.00 .00	5.45 ~2.47
262	1	29 50	.00 .00	6.47 -6,47	.00 .00	.00 .00	.00 .00	2.47 56
263	1	50 71	.00 .00	3.53 -3.53	.00 .00	.00 .00	.00 .00	.56 .48
264	1	71 92	.00 .00	1.37 -1.37	.00 .00	.00 .00	.00 .00	48 .89
265	1	92 113	.00 .00	12 .12	.00 .00	.00 .00	.00 .00	89 .85
266	1	113 134	.00 .00	-1.33 1.33	.00 .00	.00 .00	.00 .00	85 .46
267	1	134 155	.00 .00	-2.14 2.14	.00 .00	.00 .00	.00 .00	46 17
268	1	155 176	.00 .00	.60 60	.00 .00	.00 .00	.00 .00	.18 .00
271	1	9 30	.00 .00	8.81 -8.81	.00 .00	.00 .00	.00 .00	4.92 -2.32
272	1	30 51	.00 .00	5.39 -5.39	.00 .00	.00 .00	.00 .00	2.32 73
273	1	51 72	.00 .00	2.79 -2.79	.00 .00	.00 .00	.00 .00	.73 .09
274	1	72 93	.00 .00	.91 91	.00 .00	.00 .00	.00 .00	09 .36
275	1	93 114	.00 .00	08 .08	.00 00	.00 .00	.00 .00	36 .33
276	1	114 135	.00 .00	01 .01	.00 .00	.00 .00	.00 .00	33 .33
277	1	135 156	.00 .00	-1.13 1.13	.00 .00	.00 .00	.00 .00	33 .00
281	1	10 31	.00 .00	6.59 ~6.59	.00 .00	.00 .00	.00 .00	4.03 -2.09
282	1	31 52	.00 .00	3.98 -3.98	.00 .00	.00 .00	.00 .00	2.09 91
283	1	52 73	.00 .00	2.13 -2.13	.00 .00	.00 .00	.00 .00	.91 28
284	1	73 94	.00 .00	,67 67	.00 .00	.00 .00	.00 .00	.28 09
285	1	94 115	.00 .00	61 .61	.00 .00	.00 .00	.00 .00	.09 27
286	1	115 136	.00 .00	-1.35 1.35	.00 .00	.00 .00	.00 .00	.27 66
287	1	136 157	.00 .00	2.26 -2.26	.00 .00	.00 .00	.00 .00	.67 .00
291	1	11 32	.00 .00	3.39 -3.39		.00 .00	.00 .00	2.86 -1.86
· . ·	1997 - 1997 1997 - 1997 - 1997 1997 - 1997 - 1997			<u> </u>		<u> </u>		<u>ing na shinga babili</u> Tana a shina a sa sa sa

					· · · · · · · · · · · · · · · · · · ·			1. 2.7700 (441140
MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-2	TORSION	мом-ч	MOM-Z
292	1	32 53	.00 .00	2.62 -2.62	.00 .00	.00 .00	.00 .00	1,86 -1,09
293	1	53	.00	1.65	.00	.00	.00	1.09
		74	.00	-1.65	.00	.00	.00	- 60
294	1	74	.00	.86	.00	.00	.00	. 60
		95	.00	86	.00	.00	.00	35
295	1	95	.00	.47	.00	.00	.00	. 35
		116	.00	47	.00	.00	.00	→.21
296		116 137 -	.00 .00	.70 70	.00 .00	.00	.00	.21
301	1	12 33	.00 .00	1.53 -1.53	.00	.00	.00	1.96 -1.51
302	1	33	00	1.44	.00	.00	n de la deservación d En esta de la deservación de la deserva	
502	-	54	.00	-1.44	.00	.00	.00 .00	1.51 -1.09
303	1	54	.00	1.19	.00	.00	.00	1.09
		75	.00	-1.19	.00	.00	.00	74
304	1	75	.00	1.01	.00	.00	.00	74
		96	.00	-1.01	.00	.00	.00	- 44
305	1	96	.00 .00	1.02	.00	.00	.00	.44
		117		-1.02	.00	.00	.00	14
306		117 138	.00	.46 46	.00 .00	.00	.00	.14 .00
711		13	.00					
311	1	34	.00	.77 77	.00	.00	.00 .00	1.36 -1.14
312	1	34	.00	.79	.00	.00	.00	1.14
		55	.00	- 79	.00	00	.00	90
313	1	55	.00	.77	.00	.00	.00	. 90
		76	.00	77	.00	.00	.00	67
314	1	76 97	.00 .00	.69	.00	.00	.00	. 67
		1111		69	.00	.00	.00	47
315	1	97 118	.00 .00	.54 54	.00 .00	.00	.00	.47 31
21 6								
316		118 139	.00 .00	1.06 -1.06	.00 .00	.00	.00 .00	.31 .00
321	1	14	.00	.51	.00	.00	.00	.94
		35	.00	51	.00	.00	.00	79
322	1	35	.00	.55	.00	.00	.00	.79
		56	.00	55	.00	.00	.00	63
323	1	56	.00	.56	.00	.00	.00	. 62
		77	.00	56	.00	.00	.00	- 46
324	1	77 98	.00 .00	.52 52	.00 .00	.00 .00	.00 .00	.46 30
331	1	15 36	.00 .00	.39 39	.00 .00	.00 .00	.00 .00	.60 ~.49
332	1	36	.00	.46	.00	.00	.00	.49
		57	.00	46	.00	.00	.00	35
	all a state of	1 V 1		ويكتبكون فكالتكر	an shi ta ta si	e diservations and se		ية أحراثه من يك يك مريا <u>ني</u>

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MEMB ER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-2	TORSION	МОМ- Ү	MOMZ
333	1	57 78	.00 .00	.65 65	.00	.00 .00	.00 .00	.35 16
334	1	78 99	.00 .00	.77 77	.00 .00	.00 .00	.00 .00	.16 .07
						.00		07
335	1	99 120	.00 .00	23 .23	00. 00.	.00	.00 .00	.00
341	1	16 37	.00	.27 27	.00 .00	.00 .00	.00 .00	.31 23
342	1	37	.00 .00	.28 28	.00 .00	.00 .00	.00 .00	.23 15
242		58		.30		.00		.15
343	1	58 79	.00 .00	.30 30	.00 .00	.00	.00 .00	06
351	1	17 38	.00 .00	.16 16	.00 .00	.00 .00	.00 .00	.09 04
352	1	38 59	.00 .00	.10 10	.00 .00	.00 .00	.00 .00	.04 01
353	1	59	.00	09	.00	.00	.00	.01
		80	.00	.09	.00	.00	.00	04
354	1	80 101	.00 .00	.12 12	.00 .00	.00 .00	.00 .00	.04 .00
361	1	18 39	.00 .00	.04 04	.00	.00 .00	.00 .00	06 .07
362	1	39 60	.00 .00	.11 11	.00	.00 .00	.00 .00	07 .10
363	1	60 81	.00 .00	.21 21	.00 .00	.00 .00	.00 .00	10 .17
364	1	81 102	.00 .00	56 .56	.00	.00	.00 .00	17 .00
371	1	102	.00	10	.00	.00	.00	15
		40	.00	.10	.00	.00	.00	.12
372	1	40 61	.00 .00	18 .18	.00 .00	.00 .00	.00 .00	12 .07
373	1	61 82	.00 .00	23 .23		.00 .00	.00 .00	07 .00
381	1	20 41	.00 .00	13 .13		.00 .00	.00 .00	16 .12
382	1	41 62	.00 .00	12 .12	.00 .00	.00 .00	.00 .00	12 .09
383	1	62 83	.00 .00	29 .29	.00	.00 .00	.00 .00	09 .00
391	1	21 42	.00 .00	25 .25	.00	.00 .00	.00 .00	14 .06
392	1	42 63	.00 .00	21 .21	.00	.00 .00	.00 .00	06 .00
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240. START CON DESIGN 241. FC 25000 242. CLEAR 0.065 243. TRACK 1 244. MAXMAIN 25 245. DESIGN BEAM 141 TO 144 161 TO 164 251 TO 254 261 TO 264 BEAM NO. 141 DESIGN RESULTS - FLEXURE LEN - 335. MM FY - 414. FC - 25. MPA, SIZE - 295. X 250. MMS LEVEL HEIGHT BAR INFO FROM ΤO ANCHOR (MM) (MM) (MM) STA END 166. 2 - 12MM 0. 335. 1 YES YES 1--------1 CRITICAL NEG MOMENT= 4.40 KN-MET AT 0.MM, LOAD 1 REQD STEEL= 164.MM2, ROW= 0033, ROWMX= .0194 ROWMN= .0033 | MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS | Т BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS 1----BEAM NO. 141 DESIGN RESULTS - SHEAR 4.46 KNS Vc= 39.09 KNS Vs= .00 KNS PS ARE NOT REQUIRED. AT START SUPPORT - Vu= STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 4.46 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. 149J 148J 334X 294X 249 | 2No12 H 166. 0.TO 335 1.1 00 00 00 2#12 | 2#12 2#12 BEAM NO. 142 DESIGN RESULTS - FLEXURE 335. MM FY - 414. FC - 25. MPA, SIZE - 295. X 250. MMS LEN -FROM LEVEL HEIGHT BAR INFO TO ANCHOR (MM) (MM) (MM) STA END 166. 2 - 12MM 0. 335. YES YES 1

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CRITICAL NEG MOM REQD STEEL= 16 MAX/MIN/ACTUAL BASIC/REQD, DEVE	4.MM2, ROW= AR SPACING=	.0033, ROWM 181./ 3	X≃ .0194 F 7./ 181.	NOWMN= .0 MMS	1 033 	
BEAM NO.	142 DES	IGN RE	SULTS	- SHEAR		
AT END SUPPORT -	STIRRUPS ARE Vu= 3.60	KNS VC= S NOT REQUIR KNS VC= S NOT REQUIR	ED. 39.09 KNS		00. 00.	•
149J	3:	34X 294X 24	9			150J
No12 H 166. 0.TO	335					
			<u> </u>			
		00			00	
00	2#		1	2#1	1 A	
2#12			e de la seconda de la secon			
2#12		IGNRE	 SULTS	- FLEXU	JRE	
B E A M N O. LEN - 335. MM FY	143 D E S - 414. FC BAR INFO	- 25. MPA	A, SIZE -	295. X		IOR
BEAMNO. LEN - 335. MM FY LEVEL HEIGHT (MM)	143 D E S - 414. FC BAR INFO	- 25. MP7 FROM (MM)	x, SIZE - TO (MM)	295. X	250. ANCH STA	IOR END
B E A M N O. LEN - 335. MM FY LEVEL HEIGHT (MM) 1 166.	143 D E S - 414. FC BAR INFO 2 - 12MM 1ENT= 1 54.MM2, ROW= 3AR SPACING=	- 25. MP7 FROM (MM) 0. .70 KN-MET .0033, ROW	A, SIZE - TO (MM) 335 AT 0. 4X= .0194 37./ 181.	295. X MM, LOAD ROWMN= I MMS	250. ANCH STA YES 1	IOR END
B E A M N O. B E A M N O. LEN - 335. MM FY LEVEL HEIGHT (MM) 1 166. CRITICAL NEG MON REQD STEEL= 16 MAX/MIN/ACTUAL E	143 D E S - 414. FC BAR INFO 2 - 12MM MENT= 1 54.MM2, ROW= 3AR SPACING= SLOPMENT LEN	- 25. MPP FROM (MM) 0. .70 KN-MET .0033, ROW 181./ IGTH = 177	A, SIZE - TO (MM) 3355 AT 0. 4X= .0194 37./ 181. ./ 359.	295. X MM, LOAD ROWMN= MMS MMS	250. ANCH STA YES 	IOR END
B E A M N O. LEN - 335. MM FY LEVEL HEIGHT (MM) 1 166. CRITICAL NEG MON REQD STEEL= 16 MAX/MIN/ACTUAL E BASIC/REQD. DEVE BE A M N O AT START SUPPORT -	143 D E S - 414. FC BAR INFO 2 - 12MM MENT= 1 54.MM2, ROW= BAR SPACING= SLOPMENT LEN . 143 D E S Vu= 2.03	- 25. MPF FROM (MM) 0. .70 KN-MET .0033, ROWN 181./ IGTH = 177 SIGN RE IGTH SVC=	A, SIZE - TO (MM) 3355 AT 0. 4X= .0194 37. / 181. ./ 359. S U L T S 39.09 KNS	295. X MM, LOAD ROWMN= MMS MMS S - SHEAR	250. ANCH STA YES 	ior End YES
B E A M N O. LEN - 335. MM FY LEVEL HEIGHT (MM) 1 166. CRITICAL NEG MON REQD STEEL= 16 MAX/MIN/ACTUAL E BASIC/REQD. DEVE BE A M N O AT START SUPPORT -	143 D E S - 414. FC BAR INFO 2 - 12MM MENT= 1 54.MM2, ROW= BAR SPACING= SLOPMENT LEN . 143 D E S Vu= 2.01 STIRRUPS AF Vu= 2.01	- 25. MPP FROM (MM) 0. .70 KN-MET .0033, ROW 181./ IGTH = 177 S I G N R E L KNS VC= RE NOT REOUT	A, SIZE - TO (MM) 3355 AT 0. 4X= .0194 37. / 181. ./ 359. S U L T S 39.09 KNS RED. 39.09 KNS	295. X MM, LOAD ROWMN= 1 MMS MMS S - SHEAR S - SHEAR	250. ANCH STA YES 1 0033 	IOR END YES KNS
B E A M N O. LEN - 335. MM FY LEVEL HEIGHT (MM) 1 166. CRITICAL NEG MON REQD STEEL= 16 MAX/MIN/ACTUAL E BASIC/REQD. DEVE BASIC/REQD. DEVE BASIC/REQD. DEVE	143 D E S - 414. FC BAR INFO 2 - 12MM 1ENT= 1 3AR SPACING= 2AR SPACING= 2LOPMENT LEN . 143 D E S Vu= 2.01 STIRRUPS AF Vu= 2.01 STIRRUPS AF	- 25. MPF FROM (MM) 0. .70 KN-MET .0033, ROWN 181./ IGTH = 177 S I G N R E I G N R E KNS VC= RE NOT REQUI KNS VC=	A, SIZE - TO (MM) 335 AT 0. 335 AT 0. 4X= .0194 37./ 181. 37./ 181. 359. S U L T S 39.09 KNS RED. 39.09 KNS RED.	295. X MM, LOAD ROWMN= 1 MMS MMS S - SHEAR S - SHEAR	250. ANCH STA YES 1 0033 	IOR END YES KNS KNS

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#12		2#1 2. 161 D E S Y - 414. FC BAR INFO	IGNRES		oo 2#12 LEXURE X 250. MMS ANCHOR STA END
#12	BEAM N	D. 161 D E S	2 IGNRES		2#12 'LEXURE
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	0 0 	2#1			
	and the second	an an th' Ann a th			
an _a n an a	in an an an an Arrange References and an an Arrange An Arrange an an Arrange				
No12 H	166. 0.T				
_ 151J		33	4X 294X 249_		152J_
) SUPPORT	- Vu= 2.11 STIRRUPS ARE - Vu= 2.11 STIRRUPS ARE	NOT REQUIRED KNS Vc= 39	.09 KNS Vs=	
	BEAM NO). 144 ĐĖS	IGN RES	ULTS-SE	IEAR
REQ MAX	D STEEL= /MIN/ACTUAL	DMENT= 1. 164.MM2, ROW= BAR SPACING= VELOPMENT LENG	.0033, ROWMX= 181./ 37.	.0194 ROWMN / 181. MMS	I= .0033
1 		2 - 12MM			n nga manangan manangan kan sa
EVEL	HEIGHT (MM)	BAR INFO	FROM (MM)	то (MM)	ANCHOR STA END
EN -	335. MM F	Y - 414. FC	- 25. MPA,	SIZE - 295.	X 250. MMS
	BEAM NO	D. 144 DES	IGN RES	ULTS-H	TLEXURE
19 19 19 19 19 19 19 19 19 19 19 19 19 1	 			↓ ↓	
	1	2#1	2		2#12
#12	o 		00		00

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B & A M N O. 161 D E S I G N R E S U L T S - SHEAR AT START SUPPORT - Vu= 2.55 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.55 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED.	REQD STEEL= MAX/MIN/ACTU	MOMENT= 3. 164.MM2, ROW= AL BAR SPACING= DEVELOPMENT LENG	.0033, ROWMX= . 181./ 37./	0194 ROWMN= . 181. MMS	
STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.55 KNS Vc= 39.09 KNS Vs= .00 KNS 169J 334X 294X 249 170J 169J 334X 294X 249 170J No12 H 166. 0.TO 335 00 #12 2#12 2#12 B E A M N O. 162 D E S I G N R E S U L T S - FLEXURE .EN - 335. MM FY - 414. FC - 25. MPA, SIZE - 295. X 250. MMS .EVEL HEIGHT MMM MM MMM MM MMM XMM STITICAL NEG MOMENT= 2.76 KN-MET AT CRITICAL NEG MOMENT= 2.76 KN-MET AT 0.MM, LOAD 1 REQUESTEL= 164.MM2, ROW=.0033, ROMMX=.0194 ROMIN=.0033 MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS MAT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS AT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS	BEAM	N O. 161 D E S	IGN RESU	LTS-SHEA	
169J 334X 294X 249 170J No12 H 166 0.TO 335 00 00 2#12 2#12 112 2#12 2#12 012 H 166 0.TO 335 00 112 2#12 2#12 01412 2#12 2#12 01412 2#12 2#12 01412 2#14 00 01412 2#12 2#12 01412 2#12 2#12 01412 2#12 2#12 01412 2#12 2#12 01412 2#12 2#12 01412 2#12 2#12 01412 2#12 2#12 11 166 2 - 12MM 11 166 2 - 12MM 0 12 164.M2, ROW= .0033, ROWX= .0194 ROWNN= .0033 MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS BASIC/REQD. DEVELOPMENT LENGTH = .177./ 355. MM3 BASIC/REQD. DEVELOPMENT LENGTH =		STIRRUPS ARE	NOT REQUIRED.		
00 00 00 00 2#12 00 2#12 2#12 2#12 01 2#12 2#12 2#12 02 2#12 2#12 2#12 03 2#12 2#12 2#12 04 2#12 2#12 2#12 05 2#12 2#12 2#12 05 2#12 2#12 2#12 05 2#12 2#12 2#12 06 2#12 2#12 2#12 07 2#12 2#12 2#12 08 2#12 2#12 2#12 08 2#12 2#12 2#12 1 166 2 1 3 1 166 2 1 6 1 166 2 12MM 0 335 1 166 2 12MM 0 335 YES 1 166 2 12MM 0 335 YES YES 1 166 2 12MM 0 <					
No12 H 166. 0.TO 335 00 00 2#12 1 01 02 03 04 05 05 06 07 08 08 09 10 11 166. 161. 17.7	169J	33	34x 294x 249 <u> </u>		170J
#12 2#12 2#12 2#12 B E A M N O. 162 D E S I G N R E S U L T S - FLEXURE LEN - 335. MM FY - 414. FC - 25. MPA, SIZE - 295. X 250. MMS LEVEL HEIGHT BAR INFO FROM TO ANCHOR (MM) 1 166. 2 - 12MM 0. 335. YES YES CRITICAL NEG MOMENT= 2.76 KN-MET AT 0.MM, LOAD 1 REQD STEEL= 164.MM2, ROW=.0033, ROWMX=.0194 ROWMN=.0033 MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS B E A M N O. 162 D E S I G N R E S U L T S - SHEAR AT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. .00 KNS AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS	and the second), TO 335			
2#12 2#12 2#12 2#12 B E A M N O. 162 D E S I G N R E S U L T S - FLEXURE LEN - 335. MM FY - 414. FC - 25. MPA, SIZE - 295. X 250. MMS LEVEL HEIGHT BAR INFO FROM TO ANCHOR (MM) 1 166. 2 - 12MM 0. 335. YES YES - CRITICAL NEG MOMENT= 2.76 KN-MET AT 0.MM, LOAD 1 1 REQD STEEL= 164.MM2, ROW=.0033, ROWMX=.0194 ROWMN=.0033 MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS B E A M N O. 162 D E S I G N R E S U L T S - SHEAR AT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS			under einer eine Einer einer eine		
BEAMNO.162 DESIGNRESULTS-FLEXURE LEN - 335. MM FY - 414. FC - 25. MPA, SIZE - 295. X 250. MMS LEVEL HEIGHT BAR INFO FROM TO ANCHOR (MM) (MM) (MM) STA END 1 166. 2 - 12MM 0. 335. YES YES 1 166. 2 - 12MM 0. 335. YES YES 1 166. 2 - 12MM 0. 335. YES YES 1 166. 2 - 12MM 0. 335. YES YES 1 166. 2 - 12MM 0. 335. YES YES 1 166. 2 - 12MM 0. 335. YES YES 1 166. 2 - 12MM 0. 335. YES YES 1 166. 2 - 12MM 0. 335. YES YES 1 REQD STEEL= 164.M2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS AT START SUPPORT - VU= 2.85 KNS VC= 39.09 KNS VS= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - VU= 2.85 KNS VC= 39.09 KNS VS= .00 KNS STIRRUPS ARE NOT REQUIRED.	00		00		00
LEN - 335. MM FY - 414. FC - 25. MPA, SIZE - 295. X 250. MMS LEVEL HEIGHT BAR INFO FROM TO ANCHOR (MM) (MM) (MM) STA END 1 166. 2 - 12MM 0. 335. YES YES CRITICAL NEG MOMENT= 2.76 KN-MET AT 0.MM, LOAD 1 REQD STEEL= 164.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS BASIC/REQD. DEVELOFMENT LENGTH = 177./ 359. MMS BASIC/REQD. DEVELOFMENT LENGTH = 177./ 359. MMS BE A M N O. 162 DE SIGN RESULTS - SHEAR AT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED.	#12	2#	12	2	#12
LEN - 335. MM FY - 414. FC - 25. MPA, SIZE - 295. X 250. MMS LEVEL HEIGHT BAR INFO FROM TO ANCHOR (MM) (MM) (MM) STA END 1 166. 2 - 12MM 0. 335. YES YES CRITICAL NEG MOMENT= 2.76 KN-MET AT 0.MM, LOAD 1 REQD STEEL= 164.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS BASIC/REQD. DEVELOFMENT LENGTH = 177./ 359. MMS BASIC/REQD. DEVELOFMENT LENGTH = 177./ 359. MMS BE A M N O. 162 DE SIGN RESULTS - SHEAR AT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED.					
(MM) (MM) (MM) STA END 1 166. 2 - 12MM 0. 335. YES 1 CRITICAL NEG MOMENT= 2.76 KN-MET AT 0.MM, LOAD 1 1 REQD STEEL= 164.MM2, ROW=.0033, ROWMX=.0194 ROWMN=.0033 1 1 REQD STEEL= 164.MM2, ROW=.0033, ROWMX=.0194 ROWMN=.0033 1 1 REQD STEEL= 164.MM2, ROW=.181./ 37./ 181. MMS 1 BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS 1	9 F A M	N O 162 D F S		τ. Τ C - FT.	AIIDE
CRITICAL NEG MOMENT= 2.76 KN-MET AT 0.MM, LOAD 1 REQD STEEL= 164.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS BEAM NO. 162 DESIGN RESULTS-SHEAR AT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED.					
CRITICAL NEG MOMENT= 2.76 KN-MET AT 0.MM, LOAD 1 REQD STEEL= 164.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS BEAM NO. 162 DESIGN RESULTS-SHEAR AT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED.	EN - 335. MM Evel Height	FY - 414. FC	- 25. MPA, S FROM	IZE - 295. X TO	250. MMS ANCHOR
REQD STEEL= 164.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS BE A M N O. 162 D E S I G N R E S U L T S - SHEAR AT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS	EN - 335. MM Evel Height	FY - 414. FC	- 25. MPA, S FROM	IZE - 295. X TO	250. MMS ANCHOR
AT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED.	EN - 335. MM EVEL HEIGHT (MM)	FY - 414. FC BAR INFO	- 25. MPA, S FROM (MM)	IZE - 295. X TO (MM)	250. MMS ANCHOR STA END
AT START SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED.	EN - 335. MM EVEL HEIGHT (MM) 1 166. CRITICAL NE REQD STEEL= MAX/MIN/ACT	FY - 414. FC BAR INFO 2 - 12MM G MOMENT= 2 164.MM2, ROW= UAL BAR SPACING=	- 25. MPA, S FROM (MM) 0. 	IZE - 295. X TO (MM) 335. 0.MM, LOA .0194 ROWMN= 181. MMS	250. MMS ANCHOR STA END YES YES D 1 [
STIRRUPS ARE NOT REQUIRED. AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED.	EN - 335. MM EVEL HEIGHT (MM) 1 166. CRITICAL NE REQD STEEL= MAX/MIN/ACT	FY - 414. FC BAR INFO 2 - 12MM G MOMENT= 2 164.MM2, ROW= UAL BAR SPACING=	- 25. MPA, S FROM (MM) 0. 	IZE - 295. X TO (MM) 335. 0.MM, LOA .0194 ROWMN= 181. MMS	250. MMS ANCHOR STA END YES YES D 1 [
AT END SUPPORT - Vu= 2.85 KNS Vc= 39.09 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED.	EN - 335. MM EVEL HEIGHT (MM) 1 166. CRITICAL NE REQD STEEL= MAX/MIN/ACT BASIC/REQD.	FY - 414. FC BAR INFO 2 - 12MM G MOMENT= 2 164.MM2, ROW= UAL BAR SPACING= DEVELOPMENT LEN	- 25. MPA, S FROM (MM) 0. 	IZE - 295. X TO (MM) 335. 0.MM, LOA .0194 ROWMN= 181. MMS 359. MMS	250. MMS ANCHOR STA END YES YES D 1 (.0033)
170J334X 294X 249171J	EN - 335. MM EVEL HEIGHT (MM) 1 166. CRITICAL NE REQD STEEL= MAX/MIN/ACT BASIC/REQD. B E A M	FY - 414. FC BAR INFO 2 - 12MM G MOMENT= 2 164.MM2, ROW= UAL BAR SPACING= DEVELOPMENT LEN N O. 162 D E S N O. 162 D E S	- 25. MPA, S FROM (MM) 0. .76 KN-MET AT .0033, ROWMX= 181./ 37./ IGTH = 177./ S I G N R E S U S KNS VC= 39.	IZE - 295. X TO (MM) 335. 0.MM, LOA .0194 ROWMN= 181. MMS 359. MMS 1 L T S - SHEP 09 KNS Vs=	250. MMS ANCHOR STA END YES YES D 1 [.0033] R
	EN - 335. MM EVEL HEIGHT (MM) 1 166. CRITICAL NE REQD STEEL= MAX/MIN/ACT BASIC/REQD. B E A M AT START SUPPO	FY - 414. FC BAR INFO 2 - 12MM 2 - 12MM G MOMENT= 2 164.MM2, ROW= UAL BAR SPACING= DEVELOPMENT LEN NO. 162 D E S NO. 162 D E S STIRRUPS AF STIRRUPS AF NT - Vu= 2.85	- 25. MPA, S FROM (MM) 0. .76 KN-MET AT .0033, ROWMX= 181./ 37./ IGTH = 177./ S I G N R E S U S KNS VC= 39. RE NOT REQUIRED. S KNS VC= 39.	IZE - 295. X TO (MM) 335. 0.MM, LOA .0194 ROWMN= 181. MMS 359. MMS 359. MMS (LTS - SHEP 09 KNS VS= 09 KNS VS=	250. MMS ANCHOR STA END YES YES D 1 [.0033]

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	00 2#12		00 2#12
BEAM NO. 163 DE	SIGN RES	ULTS-F	LEXURE
LEN - 335. MM FY - 414.	FC - 25. MPA,	SIZE - 295.	X 250. MMS
LEVEL HEIGHT BAR INFO (MM)	FROM (MM)	ТО (MM)	ANCHOR STA END
1 166. 2 - 12MM	0.	335.	YES YES
CRITICAL NEG MOMENT= REQD STEEL= 164.MM2, RO MAX/MIN/ACTUAL BAR SPACIN	1.81 KN-MET AT W= .0033, ROWMX= IG= 181./ 37	F 0.MM, L = .0194 ROWMN ./ 181. MMS	OAD 1 = .0033
BASIC/REQD. DEVELOPMENT L	,ENGTH = 1//./	359. MMS	
AT END SUPPORT - Vu= 1.	23 KNS VC= 39 ARE NOT REQUIRED 23 KNS VC= 39).09 KNS Vs=).).09 KNS Vs=	.00 KNS
STIRRUPS	ARE NOT REQUIRED).	
2No12 H 166. 0.TO 335			
	<u>na teren an en esta esta esta esta esta esta esta esta</u>	na an a	in an Anna 1911 an Anna 19 20 Anna 1917 an Anna 1917 Anna 2017 an Anna 1917 an Anna 1917
00	00		00
2#12	2#12	1	2#12
BEAM NO. 164 DE	SIGN RES	U L T S - F	LEXURE
LEN - 335. MM FY - 414.	FC - 25. MPA,	SIZE - 295.	X 250. MMS
LEVEL HEIGHT BAR INFO (MM)	FROM (MM)	TO (MM)	ANCHOR STA END
1 166. 2 - 12MM	0.		

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BOX CULVERT AT CH. 2+760 (WING WALL) CRITICAL NEG MOMENT= 1.39 KN-MET AT 0 MM, LOAD 1 REQD STEEL= 164.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 | MAX/MIN/ACTUAL BAR SPACING= 181./ 37./ 181. MMS BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS BEAM NO. 164 DESIGN RESULTS - SHEAR 39.09 KNS Vs= AT START SUPPORT - Vu= .30 KNS Vc= .00 KNS STIRRUPS ARE NOT REQUIRED. SUPPORT - Vu= .30 KNS Vc= .39.09 KNS Vs= .00 KNS AT END STIRRUPS ARE NOT REQUIRED. 173J 334X 294X 249 172J -----2No12 H 166. 0.TO 335 00 00 00 2#12 | 2#12 1 2#12 BEAM NO. 251 DESIGN RESULTS - FLEXURE LEN - 295. MM FY - 414. FC - 25. MPA, SIZE - 335. X 250. MMS LEVEL HEIGHT BAR INFO FROM TO ANCHOR (MM) (MM) (MM) STA FND 295. YES YES 166. 2 - 1.2MM 0. 1 · ____ **- 1** -CRITICAL NEG MOMENT= 5.65 KN-MET AT 0.MM, LOAD 1 1 REQD STEEL= 186.MM2, ROW= .0033, ROWMX= .0194 ROWMN= .0033 | MAX/MIN/ACTUAL BAR SPACING= 221./ 37./ 221. MMS | BASIC/REQD. DEVELOPMENT LENGTH = 177./ 359. MMS BEAM NO. 251 DESIGN RESULTS - SHEAR AT START SUPPORT - Vu= 10.87 KNS Vc= 44.40 KNS Vs= .00 KNS STIRRUPS ARE NOT REQUIRED. SUPPORT - Vu= 10.87 KNS Vc= 44.40 KNS Vs= .00 KNS AT END STIRRUPS ARE NOT REQUIRED. 28J 294X 334X 249 7J2No12 H 166. 0.TO 295

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BEAM NO, 252 DESI	GNRESU	т. т. S. –	LEXTIRE
LEN - 295. MM FY - 414. FC -			X 250. MMS
LEVEL HEIGHT BAR INFO (MM)	FROM (MM)	то (MM)	ANCHOR STA END
1 166. 2 - 12MM	0.	295.	YES YES
CRITICAL NEG MOMENT= 2.45 REQD STEEL= 186.MM2, ROW= MAX/MIN/ACTUAL BAR SPACING= BASIC/REQD. DEVELOPMENT LENGTH	033, ROWMX= 221./ 37./	.0194 ROWMN 221. MMS	 OAD 1 = .0033
BEAM NO. 252 DESI	GN RESU	LTS-SH	EAR
AT START SUPPORT - Vu= 7.08 KN	IS Vc= 44	40 KNS Vs=	.00 KNS
STIRRUPS ARE N AT END SUPPORT - Vu= 7.08 KN STIRRUPS ARE N	NOT REQUIRED. NS Vc= 44.		동네가 동생은
	334X 249		49J
2No12 H 166. 0.TO 295			
2No12 H 166. 0.TO 295			
00	00		00
οο	00	 	
00	00		00
00 2#12 2#12 2#12 1 2#12 1 1 1 1 1 1 1 1 1 1	IGNRES	ULTS	oo ‡12 FLEXURE
2#12 2#12 2#12 	IGNRES	ULTS	oo ‡12 FLEXURE

No. 2000

				1	
CRITICAL POS MOME REQD STEEL= 186 MAX/MIN/ACTUAL BA BASIC/REQD. DEVEL	.MM2, ROW= .00 R SPACING= 2)33, ROWMX= . 221./ 37./	0194 ROWMN= .0 221. MMS	1 033 	
2 166. 2	- 12MM	0.	295.	YES	YES
CRITICAL NEG MOME REQD STEEL= 186 MAX/MIN/ACTUAL BA BASIC/REQD. DEVEL	.MM2, ROW≖ .00 R SPACING= 2)33, ROWMX= . 221./ 37./	0194 ROWMN= .0 221. MMS		
BEAM NO.	253 DESIC	GNRESU	L T S ~ SHEAR		
AT END SUPPORT - V	TIRRUPS ARE NO	DT REQUIRED. S Vc= 44.4			KNS KNS
49J	294X	334X 249			70J
			n ta shing ka san an shini 1999 - Yang ya san an shini 1999 - Yang ya san an san s		-920 - 1282 - 1 2789 - 1912 - 1
2No12 H 184. 0.TO	(2) 2 the state of the state				
00 2#12	2#12 	00	2#12	00	
			LTS-FLEX		
LEN - 295. MM FY -					
LEVEL HEIGHT H (MM)	BAR INFO	FROM (MM)	TO (MM)	ANCI STA	
1 84.	2 - 12MM	0.	295.	YES	YES
CRITICAL POS MOMI REQD STEEL⇒ 18 MAX/MIN/ACTUAL B BASIC/REQD. DEVE	6.MM2, ROW= .C AR SPACING=	033, ROWMX= 221./ 37./	.0194 ROWMN= . 221. MMS	1 0033	
 BEAM NO.	254 DESI	GNRESU	LTS-SHEAR		
AT START SUPPORT -				.00	KNS
AT END SUPPORT -	STIRRUPS ARE N Vu= 1.56 KN STIPPUPS APE N		40 KNS Vs=	.00	KNS

STIRRUPS ARE NOT REQUIRED.

16

11

11

70J		294X 334X	249				91J
			•	- - -			
No12 H 84. 0.T	0 295						
کر ہے جب کے طریقہ بین ور کر کر کے بند کے سے میں ہیں						:	
			n I. Status I.		Eren i Intras	an An An	
#12	2#	12			 2#12		
00		00	1 1		1	00	an an Chairean Taonachta Faointeachta
			i i				
					1		
			n fa Fighe Na fighe an Airt				
an is an it was been	0.261 DE			a at p			e Ar de tradition
EN - 295. MM F	Y - 414. F	C - 25.	MPA, SIZ	E - 3	35. X	250.	MMS
EVEL HEIGHT (MM)	BAR INFO	FROM (MM)		TO (MM)		ANCH STA	
				(1)			5.10
	2 - 12MM		ጥ ልጥ			YES	
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL	OMENT= 186.MM2, ROW BAR SPACING	5.45 KN-ME = .0033, R = 221./	T AT OWMX= .0 37./	0.MM 194 RC 221. M	, LOAD WMN= .(MS	 1	l Alfra Line più
CRITICAL NEG M REQD STEEL=	OMENT= 186.MM2, ROW BAR SPACING	5.45 KN-ME = .0033, R = 221./	T AT OWMX= .0 37./	0.MM 194 RC 221. M	, LOAD WMN= .(MS	 1	l Alfra Line più
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE	5.45 KN-ME = .0033, R = 221.7 NGTH = 1	T AT OWMX= .0 37./ 77./ 3	0.MM 194 RC 221. M 59. MM	, LOAD WMN= .(MS S	 1 0033 	l Alfra Line più
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE	OMENT= 186.MM2, ROW BAR SPACING	5.45 KN-ME = .0033, R = 221.7 NGTH = 1	T AT OWMX= .0 37./ 77./ 3	0.MM 194 RC 221. M 59. MM	, LOAD WMN= .(MS S	 1 0033 	l Alfra Line più
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N B E A M N AT START SUPPORT	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= .(MS S S SHEAR	1)033 	
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N B E A M N AT START SUPPORT AT END SUPPORT	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1 STIRRUPS A - Vu= 10.1	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= (MS S SHEAR Vs=	1 0033 	ĸns
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N B E A M N AT START SUPPORT AT END SUPPORT	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1 STIRRUPS A	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= (MS S SHEAR Vs=	1 0033 	ĸns
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N AT START SUPPORT AT END SUPPORT	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1 STIRRUPS A - Vu= 10.1	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40 UIRED.	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= (MS S SHEAR Vs=	1 0033 	ĸns
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N AT START SUPPORT AT END SUPPORT	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE O. 261 D E - Vu= 10.1 STIRRUPS A - Vu= 10.1 STIRRUPS A	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40 UIRED.	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= (MS S SHEAR Vs=	1 0033 	KNS KNS
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N AT START SUPPORT AT END SUPPORT 8J	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1 STIRRUPS A - Vu= 10.1 STIRRUPS A	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40 UIRED.	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= (MS S SHEAR Vs=	1 0033 	KNS KNS
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N AT START SUPPORT AT END SUPPORT 8J	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1 STIRRUPS A - Vu= 10.1 STIRRUPS A	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40 UIRED.	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= (MS S SHEAR Vs=	1 0033 	KNS KNS
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N AT START SUPPORT AT END SUPPORT 8J	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1 STIRRUPS A - Vu= 10.1 STIRRUPS A	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40 UIRED.	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= (MS S SHEAR Vs=	1 0033 	KNS KNS
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N AT START SUPPORT AT END SUPPORT 8J	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1 STIRRUPS A - Vu= 10.1 STIRRUPS A	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40 UIRED.	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= (MS S SHEAR Vs=	1 0033 	KNS KNS
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N AT START SUPPORT AT END SUPPORT 8J	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1 STIRRUPS A - Vu= 10.1 STIRRUPS A	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40 UIRED.	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= (MS S SHEAR Vs=	1 0033 	KNS KNS
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N AT START SUPPORT AT END SUPPORT 8J	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1 STIRRUPS A - Vu= 10.1 STIRRUPS A - Vu= 10.1 - Vu=	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC=	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40 UIRED.	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= .(MS S SHEAR Vs= Vs=	1 0033 	KNS KNS
CRITICAL NEG M REQD STEEL= MAX/MIN/ACTUAL BASIC/REQD. DE B E A M N AT START SUPPORT AT END SUPPORT 8J No12 H 166. 0.T	OMENT= 186.MM2, ROW BAR SPACING VELOPMENT LE 0. 261 D E - Vu= 10.1 STIRRUPS A - Vu= 10.1 STIRRUPS A - Vu= 10.1 - Vu=	5.45 KN-ME = .0033, R = 221./ NGTH = 1 S I G N R 2 KNS VC= RE NOT REQ 2 KNS VC= RE NOT REQ 294X 334X	T AT OWMX= .0 37./ 77./ 3 E S U L 44.40 UIRED. 44.40 UIRED.	0.MM 194 RC 221. M 59. MM T S -	, LOAD WMN= (MS S SHEAR Vs=	.00	KNS KNS

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N -	295. MM FY	- 414, 20	C - 25. №	1PA, SIZE -	335. X	250, 1	MMS
VEL	HEIGHT (MM)	BAR INFO	FROM (MM)	ТО (MM)		ANCH STA	
1	166.	2 - 12MM	о.	295	•	YES	YES
REQI) STEEL= 1 /MIN/ACTUAL	86.MM2, ROW BAR SPACING	= .0033, RC = 221./	r AT 0.t DWMX= .0194 I 37./ 221. 77./ 359.t	ROWMN= .(MMS		
i i i i	BEAM NO). 262 D E	SIGN R	ESULTS	- SHEAR		
AT STAI	rt support -	1		44.40 KNS	Vs=	.00	KNS
AT END	SUPPORT -	- Vu= б.4		UIRED. 44.40 KNS UIRED.	Vs⇒	.00	KNS
29J			294X 334X	249	rra, en 123 Statistica Altaria		50J
	00	2	00 112		 2#12 	00	
2#12			12				
2#12	BEAM N	0. 263 DE	12 SIGN R	E S U L T S MPA, SIZE -	I FLEX	URE	I I I I I I
2#12 LEN -	B E A M N 295. MM F	0. 263 DE	12 SIGN R FC - 25.	MPA, SIZE - To	i 1 - FLEX 335. X	URE	for
2#12 LEN -	B E A M N 295. MM F HEIGHT (MM)	0. 263 DE Y - 414. I BAR INFO	112 SIGN R FC - 25. FROM (MM)	MPA, SIZE - To	i 1 335. X	URE 250. ANCI STA YES	HOR END YES
2#12 LEN - LEVEL 1 CRI RE(MA)	B E A M N 295. MM F HEIGHT (MM) 84. ITICAL POS M 2D STEEL= (/MIN/ACTUAL	0. 263 D E Y - 414. I BAR INFO 2 - 12MM OMENT= 186 MM2, RO BAR SPACING	SIGN R FC - 25. FROM (MM) 0. .48 KN-ME W= .0033, F G= 221./ ENGTH = 1	MPA, SIZE - TO (MM)	FLEX 335. X 335. X MM, LOAI ROWMN= MMS	URE 250. ANCI STA YES	for END YES
2#12 LEN - LEVEL 1 CRI REQ BAS 	B E A M N 295. MM F HEIGHT (MM) 84. ITICAL POS M 20 STEEL= (/MIN/ACTUAL SIC/REQD. DE	0. 263 D E Y - 414. I BAR INFO 2 - 12MM OMENT= 186.MM2, ROI BAR SPACING VELOPMENT L	112 SIGN R FC - 25. FROM (MM) 0. 0. .48 KN-ME W= .0033, E G= 221./ ENGTH = 1	MPA, SIZE - TO (MM) 295 295 295 20WMX= .0194 37./ 221 177./ 295. 299	FLEX 335. X 335. X MM, LOAD ROWN= MMS MMS	URE 250. STA YES 0 1 0033 YES	IOR END YES

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AT START SUPPORT - AT END SUPPORT -	263 D E S I G N R E S U L T S ~ SHEAF Vu= 3.53 KNS Vc= 44.40 KNS Vs= STIRRUPS ARE NOT REQUIRED. Vu= 3.53 KNS Vc= 44.40 KNS Vs= STIRRUPS ARE NOT REQUIRED. 294X 334X 249	.00 KNS .00 KNS
	221A JJ4A 245	71J
======================================		;=========================
2No12 H 184. 0.TO	295	
00 2#12	00	00
00		00
	264 DESIGNRESULTS-FLEX	
LEN - 295. MM FY	- 414. FC - 25. MPA, SIZE - 335. X	250. MMS
LEVEL HEIGHT (MM)	BAR INFO FROM TO (MM) (MM)	ANCHOR STA END
1 84.	2 - 12MM 0. 295.	YES YES
REQD STEEL= 18 MAX/MIN/ACTUAL E	NENT= .89 KN-MET AT 295.MM, LOAD 6.MM2, ROW= .0033, ROWMX= .0194 ROWMN= AR SPACING= 221./ 37./ 221. MMS LOPMENT LENGTH = 177./ 295. MMS	1 0033 1
BEAM NO.	264 DESIGN RESULTS - SHEAR	
AT END SUPPORT -	Vu= 1.37 KNS Vc= 44.40 KNS Vs= STIRRUPS ARE NOT REQUIRED. Vu= 1.37 KNS Vc= 44.40 KNS Vs= STIRRUPS ARE NOT REQUIRED.	
71J	294X 334X 249	007
	2947 JJ47 249	92J
2No12 H 84. 0.TO	295	
2#12 co	2#12 2#12 00 1 1	00 00
	가 있는 데 같은 것은 가를 가지 않는 데 있다. 이 가슴을 같은 것은 데 <u> 같은 것은 것은 것이 같은 데</u> 데이지는 데 가슴을	

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249. END CON DESIGN 250. FINISH

***** DATE= JAN 29,2000 TIME= 15: 9:32 ****

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 * Research Engineers, Inc at
 * West Coast: Ph- (714) 974-2500 Fax- (714) 921-2543
 * East Coast: Ph- (508) 688-3626 Fax- (508) 685-7230