

## **ANEXO D-6**

**UNIDAD DE NEFROLOGIA.  
SOLICITACIONES EN LOS ELEMENTOS:  
CASO 2 (0,30 Sx + 1,00 Sy)**

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 FLANE		1-3 FLANE		AXIAL TORQ
				SHEAR	MOMENT	SHEAR	MOMENT	
1	DYN	5295.14						66.23
			.2	4236.75	9177.71	1812.52	3909.43	
			3.8	4236.75	6120.72	1812.52	2616.56	
3	DYN	2732.45						86.15
			.2	3100.22	5196.24	1793.99	3159.19	
			3.8	3100.22	5970.63	1793.99	3300.94	
5	DYN	820.73						55.53
			.2	1798.15	2661.65	1099.53	1682.31	
			3.8	1798.15	3819.95	1099.53	2279.05	
2	DYN	8573.64						66.23
			.2	3947.89	8494.55	1811.00	3907.62	
			3.8	3947.89	5719.88	1811.00	2612.91	
4	DYN	4538.12						86.15
			.2	2796.81	4667.05	1812.51	3179.13	
			3.8	2796.81	5407.28	1812.51	3347.65	
6	DYN	1346.47						55.53
			.2	1562.85	2712.47	1129.67	1742.05	
			3.8	1562.85	3322.17	1129.67	2327.45	
7	DYN	2347.29						66.23
			.2	5532.50	10979.38	1826.93	3598.57	
			3.8	5532.50	8937.67	1826.93	2978.40	
8	DYN	2616.18						66.23
			.2	5285.50	10374.83	1738.65	3494.04	
			3.8	5285.50	8653.37	1738.65	2765.31	
11	DYN	1996.76						86.15
			.2	4834.01	8535.32	1618.02	3077.46	
			3.8	4834.01	8868.16	1618.02	2748.45	
14	DYN	651.49						55.53
			.2	2887.33	4784.71	772.21	1112.97	
			3.8	2887.33	5611.04	772.21	1672.11	
9	DYN	1421.25						66.23
			.2	4836.20	9545.85	1778.28	3540.91	
			3.8	4836.20	7864.90	1778.28	2861.16	
12	DYN	323.08						86.15
			.2	4282.92	7515.80	2062.36	3651.61	
			3.8	4282.92	7905.91	2062.36	3775.20	
15	DYN	212.35						55.53
			.2	2655.90	4331.76	1368.20	2307.77	
			3.8	2655.90	5230.69	1368.20	2618.13	

MODELO MATEMATICO EDIF. DE NEFROLOGIA , DUCT.=6 , 0.30SX+1.00SY

FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST END1	1-2 FLANE SHEAR	1-2 FLANE MOMENT	1-3 FLANE SHEAR	1-3 FLANE MOMENT	AXIAL TORQ
10	DYN	6706.30						66.23
			.2	3700.81	7923.12	1420.69	3117.74	
			3.8	3700.81	5401.56	1420.69	1997.65	
13	DYN	2507.60						86.15
			.2	2558.04	4254.81	1362.37	2383.34	
			3.8	2558.04	4959.69	1362.37	2522.98	
16	DYN	1052.72						55.53
			.2	1460.51	2147.04	841.05	1266.54	
			3.8	1460.51	3117.95	841.05	1764.23	
17	DYN	8272.57						66.23
			.0	4631.77	10521.53	1011.46	2403.59	
			3.9	4631.77	7544.26	1011.46	1541.76	
23	DYN	4184.89						86.15
			.2	4128.01	7191.30	1068.34	1867.73	
			3.8	4128.01	7573.69	1068.34	1979.70	
29	DYN	1333.59						55.53
			.2	2326.88	3488.07	656.81	995.34	
			3.8	2326.88	4897.13	656.81	1371.76	
18	DYN	2413.85						66.23
			.2	5586.90	11043.32	1542.27	2973.72	
			3.8	5586.90	9079.17	1542.27	2578.53	
24	DYN	2571.74						86.15
			.2	4311.39	8089.56	1791.94	3224.60	
			3.8	4311.39	7433.89	1791.94	3226.51	
30	DYN	1015.95						55.53
			.2	1912.82	2700.40	1216.11	2044.08	
			3.8	1912.82	4200.10	1216.11	2334.09	
19	DYN	2625.86						129.35
			.2	8375.61	25437.56	5201.93	10272.89	
			3.8	8375.61	4933.52	5201.93	8454.57	
25	DYN	1846.91						168.26
			.2	3941.04	5100.73	4707.54	8277.52	
			3.8	3941.04	9340.51	4707.54	8670.88	
31	DYN	866.20						108.46
			.2	1372.39	2294.25	2876.44	4730.53	
			3.9	1372.39	5204.15	2876.44	5626.71	
20	DYN	19017.15						66.23
			.2	5366.35	10172.98	1446.68	2860.21	
			3.8	5366.35	9146.08	1446.68	2348.56	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.00SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE		1-3 PLANE		AXIAL TORQ
				SHEAR	MOMENT	SHEAR	MOMENT	
26	DYN	10576.87						86.15
			.2	5023.29	9042.39	1656.85	2944.08	
			3.8	5023.29	9041.78	1656.85	3021.70	
32	DYN	5553.72						55.53
			.2	2440.90	4333.35	993.51	1738.64	
			3.8	2440.90	4457.34	993.51	1840.15	
21	DYN	899.51						66.23
			.2	4574.49	8957.03	1424.04	2833.84	
			3.8	4574.49	7511.53	1424.04	2292.87	
27	DYN	359.44						86.15
			.2	3973.33	7000.29	1592.58	2844.03	
			3.8	3973.33	7304.59	1592.58	2889.64	
33	DYN	72.50						55.53
			.2	2285.40	7783.20	1081.77	1784.24	
			3.8	2285.40	4445.58	1081.77	2110.45	
22	DYN	7718.69						66.23
			.2	3679.25	7640.98	1156.61	2516.96	
			3.8	3679.25	5606.24	1156.61	1648.31	
28	DYN	3926.77						86.15
			.2	2676.67	4540.28	1114.64	1946.26	
			3.8	2676.67	5099.90	1114.64	2067.64	
34	DYN	1144.27						55.53
			.2	1495.70	2300.58	692.94	1071.20	
			3.8	1495.70	3089.34	692.94	1425.50	
35	DYN	1635.34						46.08
			.2	3264.77	5724.83	746.16	1535.10	
			2.4	3264.77	1458.48	746.16	241.81	
36	DYN	1283.58						7.06
			.2	558.10	1093.67	146.56	288.53	
			3.8	558.10	915.68	146.56	239.55	
39	DYN	817.51						9.19
			.2	504.17	890.95	164.43	293.98	
			3.8	504.17	924.19	164.43	298.02	
42	DYN	476.97						5.92
			.2	310.25	508.25	114.06	189.19	
			3.8	310.25	608.77	114.06	221.61	
37	DYN	1051.87						7.06
			.2	529.25	1049.43	162.15	307.40	
			3.8	529.25	855.93	162.15	276.42	

MODELO MATEMATICO EDIF.DE NEFROLOGIA . DUCT.=6 .0.20SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE		1-3 PLANE		AXIAL TORQ
				SHEAR	MOMENT	SHEAR	MOMENT	
40	DYN	789.80						9.19
			.2	465.77	816.21	194.36	349.06	
			3.8	465.77	860.70	194.36	350.64	
47	DYN	664.25						5.92
			.2	213.42	378.53	118.66	211.62	
			3.8	213.42	391.29	118.66	215.63	
38	DYN	11173.10						66.23
			.2	5353.61	10157.91	771.92	1980.49	
			3.8	5353.61	9115.30	771.92	831.77	
41	DYN	5977.77						86.15
			.2	5118.53	9139.22	525.56	829.16	
			3.8	5118.53	9287.78	525.56	1067.71	
44	DYN	2972.08						55.53
			.2	2644.10	4705.83	217.57	262.73	
			3.8	2644.10	4814.71	217.57	549.19	
45	DYN	495.54						4.91
			.2	769.22	851.61	119.67	199.70	
			2.4	769.22	841.77	119.67	70.82	
46	DYN	1078.15						46.08
			.2	3874.09	6365.70	244.22	582.58	
			2.4	3874.09	2168.04	244.22	45.61	
47	DYN	8527.38						22.95
			.2	523.72	1468.27	1503.76	2674.45	
			3.8	523.72	423.68	1503.76	2739.09	
50	DYN	5140.50						29.86
			.2	271.21	373.46	1672.57	3028.84	
			3.8	271.21	612.31	1672.57	2992.42	
53	DYN	3499.66						19.24
			.2	61.54	93.86	975.09	1777.89	
			3.8	61.54	223.45	975.09	1732.45	
56	DYN	1300.00						15.97
			.2	344.31	447.55	1608.85	2204.84	
			2.4	344.31	328.10	1608.85	1334.72	
48	DYN	1981.28						22.95
			.2	579.83	1534.67	990.63	2037.57	
			3.8	579.83	556.22	990.63	1528.97	
51	DYN	1585.21						29.86
			.2	374.71	562.80	811.96	1395.47	
			3.8	374.71	791.52	811.96	1528.05	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 .0.30SX+1.00SY

FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE		1-3 PLANE		AXIAL TORQ
				SHEAR	MOMENT	SHEAR	MOMENT	
54	DYN	1420.94						19.24
			.2	108.44	133.88	328.71	579.46	
			3.8	108.44	293.69	328.71	611.75	
57	DYN	1106.09						15.97
			.2	533.88	564.22	1085.39	1247.64	
			2.4	533.88	620.62	1085.39	1141.53	
49	DYN	685.65						7.06
			.2	559.04	1085.01	152.27	288.33	
			3.8	559.04	927.58	152.27	259.86	
52	DYN	607.90						9.19
			.2	515.55	911.66	179.09	322.61	
			3.8	515.55	944.37	179.09	322.14	
55	DYN	533.84						5.92
			.2	243.21	438.35	103.90	187.33	
			3.8	243.21	438.41	103.90	186.81	
58	DYN	428.19						4.91
			.2	843.00	923.24	243.55	275.03	
			2.4	843.00	931.61	243.55	260.65	
59	DYN	9193.56						66.23
			.2	5047.12	10728.18	905.86	2010.23	
			3.8	5047.12	7443.50	905.86	1252.08	
66	DYN	4911.30						86.15
			.2	4055.87	6921.40	809.97	1396.11	
			3.8	4055.87	7684.80	809.97	1521.19	
73	DYN	1480.48						55.53
			.2	2414.86	3684.38	513.91	784.36	
			3.8	2414.86	5015.68	513.91	1068.07	
60	DYN	818.28						66.23
			.2	5625.07	11088.53	1254.12	2422.61	
			3.8	5625.07	9162.28	1254.12	2092.28	
67	DYN	533.10						86.15
			.2	5341.97	9357.30	1406.36	2531.42	
			3.8	5341.97	9874.83	1406.36	2531.64	
74	DYN	272.29						55.53
			.2	3289.54	5523.81	984.76	1641.33	
			3.8	3289.54	6319.61	984.76	1903.90	
61	DYN	13187.07						129.35
			.2	7860.85	21884.85	5316.73	10409.47	
			3.8	7860.85	6502.30	5316.73	8731.46	

MODELO MATEMATICO EDIF. DE NEFROLOGIA . DUCT.=6 . 0.00SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST END1	1-2 PLANE		1-3 PLANE		AXIAL TORQ
				SHEAR	MOMENT	SHEAR	MOMENT	
68	DYN	7571.08						168.26
			.2	4368.18	6432.78	4884.07	8625.04	
			3.8	4368.18	9408.58	4884.07	8958.58	
75	DYN	4300.24						108.46
			.2	848.20	1357.58	2471.70	4318.57	
			3.8	848.20	3199.79	2471.70	4585.63	
80	DYN	1756.42						90.00
			.2	2105.39	4588.01	2053.47	5416.07	
			2.4	2105.39	122.31	2053.47	1203.97	
62	DYN	9257.41						66.22
			.2	3124.61	7703.04	1427.65	2627.82	
			3.8	3124.61	3555.49	1427.65	2511.78	
69	DYN	5323.41						86.15
			.2	1488.25	2022.26	1713.97	3109.29	
			3.8	1488.25	3367.40	1713.97	3061.01	
76	DYN	2874.00						55.53
			.2	403.19	404.98	1042.46	1874.48	
			3.8	403.19	1194.00	1042.46	1878.39	
81	DYN	1257.15						46.08
			.2	1795.14	2682.05	1077.12	1810.01	
			2.4	1795.14	1298.55	1077.12	566.68	
63	DYN	7205.29						66.22
			.2	5069.25	9821.52	1244.16	2410.51	
			3.8	5069.25	8428.11	1244.16	2068.97	
70	DYN	4351.06						86.15
			.2	4625.00	8207.79	1381.34	2490.85	
			3.8	4625.00	8443.03	1381.34	2483.10	
77	DYN	2636.13						55.53
			.2	2360.79	4115.34	817.74	1427.44	
			3.8	2360.79	4390.32	817.74	1517.59	
82	DYN	580.27						46.08
			.2	2803.38	5399.70	743.99	1415.87	
			2.4	2803.38	769.17	743.99	247.53	
64	DYN	83.72						
			.2	4586.38	9072.84	1165.55	2242.84	
			3.8	4586.38	7428.60	1165.55	1952.50	
71	DYN	92.72						
			.2	3892.98	6810.46	1246.74	2210.31	
			3.3	3892.98	7209.16	1246.74	2278.37	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 .0.306X+1.00SY

FRAME ELEMENT FORCES

ELT	LOAD	AXIAL DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE ENDI	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
78	DYN	107.68					
			.2	2255.16	3707.82	877.79	1441.80
			3.8	2255.16	4412.45	877.79	1718.60
65	DYN	7901.59					
			.2	4764.90	9028.35	1254.25	2448.90
			3.8	4764.90	8125.91	1254.25	2068.50
72	DYN	3726.59					
			.2	4332.81	7709.61	1380.15	2482.01
			3.8	4332.81	7888.82	1380.15	2487.07
79	DYN	802.01					
			.2	2451.08	4203.77	858.59	1468.66
			3.8	2451.08	4620.75	858.59	1623.74
83	DYN	6700.06					66.23
			.2	4588.81	9862.24	879.22	1905.21
			3.8	4588.81	6659.66	879.22	1260.68
88	DYN	3472.49					86.15
			.2	3454.70	5852.65	765.81	1328.72
			3.8	3454.70	6590.75	765.81	1429.55
93	DYN	1053.19					55.53
			.2	2020.15	2984.58	518.76	794.06
			3.8	2020.15	4296.64	518.76	1074.92
84	DYN	665.16					66.23
			.2	5200.06	10273.74	1077.61	2140.04
			3.8	5200.06	8446.93	1077.61	1739.55
89	DYN	216.69					86.15
			.2	4701.61	8273.72	1118.39	1989.67
			3.8	4701.61	8653.39	1118.39	2036.82
94	DYN	277.91					55.53
			.2	2903.69	4745.57	752.83	1259.54
			3.8	2903.69	5708.92	752.83	1451.02
85	DYN	213.51					
			.2	4899.77	9730.02	1095.88	2186.17
			3.8	4899.77	7909.66	1095.88	1759.20
96	DYN	237.02					
			.2	4253.12	7441.88	1123.91	1996.28
			3.8	4253.12	7870.86	1123.91	2050.14
95	DYN	209.67					
			.2	2609.31	4238.59	757.05	1262.76
			3.8	2609.31	5156.28	757.05	1462.99



MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,U.30SX+1.00SY

FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST END1	1-2 PLANE		1-3 PLANE		AXIAL TORQ
				SHEAR	MOMENT	SHEAR	MOMENT	
86	DYN	1344.14						
			.2	4658.10	9158.87	1178.76	2225.21	
			3.8	4658.10	7610.69	1128.76	1838.99	
91	DYN	714.50						
			.2	4003.69	7028.16	1179.91	2105.59	
			3.8	4003.69	7386.24	1179.91	2142.51	
96	DYN	271.95						
			.2	2354.78	3872.39	806.19	1347.57	
			3.8	2354.78	4606.21	806.19	1555.05	
87	DYN	4195.47						
			.2	4747.79	9007.98	951.75	1975.35	
			3.8	4747.79	8084.48	951.75	1516.67	
92	DYN	1950.35						
			.2	4311.66	7664.59	931.43	1677.00	
			3.8	4311.66	7857.73	931.43	1683.91	
97	DYN	446.26						
			.2	2458.83	4207.12	598.01	1006.20	
			3.8	2458.83	4645.16	598.01	1162.74	
98	DYN	3462.67						66.23
			.0	4069.10	9187.87	990.07	2191.91	
			3.9	4069.10	6683.11	990.07	1673.71	
102	DYN	1567.00						86.15
			.2	3577.15	6164.26	1103.29	1947.81	
			3.8	3577.15	6717.02	1103.29	2025.18	
106	DYN	363.14						55.53
			.2	2058.03	3147.71	838.68	1339.19	
			3.8	2058.03	4267.31	838.68	1681.59	
99	DYN	10772.81						
			.2	5055.38	9916.56	1487.35	2744.38	
			3.8	5055.38	8283.34	1487.35	2617.63	
103	DYN	6170.69						
			.2	4530.41	7961.82	1706.68	3107.93	
			3.8	4530.41	8348.74	1706.68	3037.20	
107	DYN	2274.78						
			.2	2733.37	4533.00	1052.78	1871.40	
			3.8	2733.37	5108.68	1052.78	1921.11	
100	DYN	5476.40						
			.2	4229.97	8644.68	1228.71	2429.04	
			3.8	4229.97	6585.07	1228.71	2011.71	

MODELO MATEMATICO EDIF. DE NEFROLOGIA , DUCT.=6 LO. 20SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORO
104	DYN	2403.00						
			.2	3284.13	5652.17	1236.33	2197.11	
			3.8	3284.13	6173.32	1236.33	2254.83	
108	DYN	574.26						
			.2	1838.71	3909.18	814.85	1377.31	
			3.8	1838.71	3713.90	814.85	1560.75	
101	DYN	10747.06						
			.2	3056.05	7100.67	1064.07	2212.99	
			3.8	3056.05	3914.72	1064.07	1671.02	
105	DYN	5318.14						
			.2	1523.56	2250.14	970.21	1711.76	
			3.8	1523.56	3258.07	970.21	1786.32	
109	DYN	1528.95						
			.2	784.87	969.02	612.91	1029.14	
			3.8	784.87	1900.14	612.91	1187.44	
110	DYN	8859.44						86.23
			.2	2840.95	5764.17	3075.38	6005.09	
			3.8	2840.95	4467.36	3075.38	5067.04	
111	DYN	4355.25						86.15
			.2	2237.67	3871.02	2606.57	4609.04	
			3.8	2237.67	4186.31	2606.57	4775.22	
112	DYN	1020.85						55.53
			.2	1298.22	2041.13	1372.27	2301.84	
			3.8	1298.22	2634.82	1372.27	2639.10	
113	DYN	4119.88						66.23
			.2	2805.23	5787.24	2435.96	5058.32	
			3.8	2805.23	4312.67	2435.96	3711.89	
114	DYN	2227.86						86.15
			.2	2166.98	3711.57	1715.64	2882.92	
			3.8	2166.98	4092.59	1715.64	3296.27	
115	DYN	668.35						55.53
			.2	1255.14	1959.56	975.53	1496.76	
			3.8	1255.14	2561.73	975.53	2018.43	
116	DYN	7693.17						
			.2	4320.69	8495.20	762.29	1608.42	
			3.8	4320.69	7060.74	762.29	1507.93	
117	DYN	3954.05						
			.2	3583.64	6278.97	880.99	1759.76	
			3.8	3583.64	6623.23	880.99	1478.36	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	ENDI	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
118	DYN	1091.91						
			.2	1954.91	3245.25	522.73	1025.96	
			3.8	1954.91	3793.98	522.73	895.58	
119	DYN	12633.07						66.23
			.2	2591.97	5242.81	3466.17	7253.86	
			3.8	2591.97	4088.97	3466.17	5225.58	
120	DYN	6247.26						86.15
			.2	1970.61	3324.99	2750.55	4736.43	
			3.8	1970.61	3626.66	2750.55	5168.35	
121	DYN	1686.83						55.53
			.2	1042.25	1650.02	1532.43	2381.14	
			3.8	1042.25	2104.05	1532.43	3139.63	
122	DYN	37078.62						66.23
			.2	3149.51	5948.35	4588.32	8785.77	
			3.8	3149.51	5390.15	4588.32	7732.56	
123	DYN	14070.75						86.15
			.2	2816.05	5058.72	4325.48	7823.64	
			3.8	2816.05	5079.22	4325.48	7748.34	
124	DYN	1387.75						55.53
			.2	1429.06	2490.06	2118.05	3693.95	
			3.8	1429.06	2654.73	2118.05	3931.38	
125	DYN	16173.03						66.23
			.2	2975.14	5828.74	4211.45	8342.49	
			3.8	2975.14	4882.33	4211.45	6819.68	
126	DYN	7105.60						86.15
			.2	2358.40	4224.46	3553.26	6459.20	
			3.8	2358.40	4266.30	3553.26	6333.19	
127	DYN	1474.49						55.53
			.2	973.13	1649.79	1315.42	2254.64	
			3.8	973.13	1854.44	1315.42	2482.15	
128	DYN	14312.91						66.23
			.2	4129.89	8184.20	2866.25	5643.42	
			3.8	4129.89	6684.27	2866.25	4675.69	
129	DYN	6980.67						86.15
			.2	3520.69	6762.45	3130.88	3852.27	
			3.8	3520.69	6312.72	3130.88	3819.42	
130	DYN	1426.80						55.53
			.2	1420.30	2421.11	687.48	1169.05	
			3.8	1420.30	3693.26	687.48	1307.23	

MODELO MATEMATICO FDIF.DE NEFROLOGIA . DUCT.=6 .0.50SX+1.00SY

## FRAME ELEMENT FORCES

ELT	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	ENDI	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
131	DYN	49976.37						66.23
			.2	4171.84	8295.60	2835.18	5606.64	
			3.8	4171.84	6724.04	2835.18	4600.70	
132	DYN	20761.13						86.15
			.2	3479.72	6327.21	2073.44	3745.90	
			3.8	3479.72	6204.49	2073.44	3719.03	
133	DYN	3722.15						55.53
			.2	1244.76	2131.36	634.39	1076.99	
			3.8	1244.76	2351.21	634.39	1208.41	
200	DYN	.00						95.71
			.2	.00	.00	1695.86	5849.23	
			7.1	.00	.00	1695.86	5852.22	
300	DYN	.00						79.35
			.2	.00	.00	1475.94	5111.27	
			7.1	.00	.00	1475.94	5072.69	
400	DYN	.00						24.48
			.2	.00	.00	670.31	2322.40	
			7.1	.00	.00	670.31	2302.71	
201	DYN	.00						115.09
			.2	.00	.00	906.16	3040.75	
			7.1	.00	.00	906.16	3212.23	
202	DYN	.00						39.06
			.2	.00	.00	931.49	3251.39	
			7.1	.00	.00	931.49	3175.93	
302	DYN	.00						41.84
			.2	.00	.00	1064.24	4060.40	
			7.1	.00	.00	1064.24	3282.86	
402	DYN	.00						57.00
			.2	.00	.00	470.75	1809.93	
			7.1	.00	.00	470.75	1438.37	
203	DYN	.00						279.15
			.2	.00	.00	1178.13	3721.65	
			7.0	.00	.00	1178.13	4407.46	
303	DYN	.00						174.78
			.2	.00	.00	996.06	3107.26	
			7.0	.00	.00	996.06	3765.56	
403	DYN	.00						143.04
			.2	.00	.00	447.27	1363.47	
			7.0	.00	.00	447.27	1720.84	

MODELO MATEMATICO EDIF. DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORQ
204	DYN	.00						368.55
			.2	.00	.00	863.61	3369.55	
			7.1	.00	.00	863.61	2589.39	
304	DYN	.00						39.67
			.2	.00	.00	788.48	3025.07	
			7.1	.00	.00	788.48	2415.46	
404	DYN	.00						32.84
			.2	.00	.00	338.28	1799.81	
			7.1	.00	.00	338.28	934.42	
205	DYN	.00						53.54
			.2	.00	.00	1232.54	3428.91	
			7.1	.00	.00	1232.54	5075.68	
305	DYN	.00						389.91
			.2	.00	.00	1033.94	2978.13	
			7.1	.00	.00	1033.94	4156.13	
405	DYN	.00						185.26
			.2	.00	.00	556.81	1436.14	
			7.1	.00	.00	556.81	2405.99	
206	DYN	.00						782.86
			.2	.00	.00	1362.78	5233.60	
			2.6	.00	.00	1362.78	2158.48	
306	DYN	.00						541.25
			.2	.00	.00	1114.42	4159.79	
			2.6	.00	.00	1114.42	1687.70	
406	DYN	.00						84.73
			.2	.00	.00	733.37	2685.22	
			2.6	.00	.00	733.37	1004.22	
207	DYN	.00						244.06
			.2	.00	.00	1290.32	1836.47	
			2.1	.00	.00	1290.32	827.76	
307	DYN	.00						122.18
			.2	.00	.00	1030.20	1440.29	
			2.1	.00	.00	1030.20	793.98	
407	DYN	.00						98.59
			.2	.00	.00	677.51	827.77	
			2.1	.00	.00	677.51	666.33	
208	DYN	.00						333.55
			.2	.00	.00	1534.92	1140.97	
			2.1	.00	.00	1534.92	3975.43	

MODELO MATEMATICO EDIF.DE NEFROLOGIA . DUCT.=6 .0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT	LOAD	AXIAL	DIST	1-2 FLANE		1-3 FLANE		AXIAL
ID	COND	FORCE	ENDI	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
308	DYN	.00	.2	.00	.00	1178.35	1015.88	327.56
			2.1	.00	.00	1178.35	3124.63	
408	DYN	.00	.2	.00	.00	769.16	804.85	427.66
			2.1	.00	.00	769.16	2129.51	
209	DYN	.00	.2	.00	.00	735.14	2524.78	140.76
			7.0	.00	.00	735.14	2549.21	
309	DYN	.00	.2	.00	.00	668.20	2258.44	47.00
			7.0	.00	.00	668.20	2352.79	
409	DYN	.00	.2	.00	.00	396.55	1505.13	156.94
			7.0	.00	.00	396.55	1336.46	
210	DYN	.00	.2	.00	.00	929.91	2951.81	197.34
			7.0	.00	.00	929.91	7465.49	
310	DYN	.00	.2	.00	.00	814.54	2611.12	109.69
			7.0	.00	.00	814.54	3009.76	
410	DYN	.00	.2	.00	.00	355.08	1059.23	60.97
			7.0	.00	.00	355.08	1395.94	
211	DYN	.00	.2	.00	.00	276.96	382.17	103.72
			2.6	.00	.00	276.96	283.34	
311	DYN	.00	.2	.00	.00	218.91	296.83	87.69
			2.6	.00	.00	218.91	228.88	
411	DYN	.00	.2	.00	.00	122.31	186.27	34.62
			2.6	.00	.00	122.31	107.40	
212	DYN	.00	.2	.00	.00	234.43	249.24	13.61
			2.1	.00	.00	234.43	209.79	
312	DYN	.00	.2	.00	.00	224.87	235.44	8.81
			2.1	.00	.00	224.87	204.76	

MODELO MATEMATICO EDIF.DE NEFROLOGIA . DUCT.=6 .0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORQ
412	DYN	.00						58.18
			.2	.00	.00	131.05	114.33	
			2.1	.00	.00	131.05	142.41	
213	DYN	.00						44.80
			.2	.00	.00	425.10	329.23	
			2.1	.00	.00	425.10	499.75	
313	DYN	.00						29.10
			.2	.00	.00	362.31	289.86	
			2.1	.00	.00	362.31	416.80	
413	DYN	.00						32.47
			.2	.00	.00	283.98	236.61	
			2.1	.00	.00	283.98	317.60	
214	DYN	.00						979.04
			.2	.00	.00	3300.61	898.45	
			2.4	.00	.00	3300.61	8080.33	
314	DYN	.00						732.79
			.2	.00	.00	2463.13	662.94	
			2.4	.00	.00	2463.13	6001.97	
414	DYN	.00						298.72
			.2	.00	.00	1064.60	191.36	
			2.4	.00	.00	1064.60	2532.41	
215	DYN	.00						478.34
			.2	.00	.00	6826.70	8511.16	
			2.4	.00	.00	6826.70	6821.03	
315	DYN	.00						345.67
			.2	.00	.00	4919.51	6169.50	
			2.4	.00	.00	4919.51	4880.73	
415	DYN	.00						159.25
			.2	.00	.00	1690.69	2297.77	
			2.4	.00	.00	1690.69	1509.16	
216	DYN	.00						129.73
			.2	.00	.00	456.50	554.36	
			2.6	.00	.00	456.50	541.24	
316	DYN	.00						91.29
			.2	.00	.00	347.57	422.53	
			2.6	.00	.00	347.57	411.64	
416	DYN	.00						81.28
			.2	.00	.00	278.98	335.07	
			2.6	.00	.00	278.98	334.49	

MODELO MATEMATICO EDIF.DE NEFROLOGIA . DUCT.=6 .0.30SX+1.00SY

## FRAMF ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORQ
217	DYN	.00	.2	.00	.00	399.09	473.60	52.74
			2.1	.00	.00	399.09	304.64	
317	DYN	.00	.2	.00	.00	320.13	370.05	34.32
			2.1	.00	.00	320.13	254.22	
417	DYN	.00	.2	.00	.00	281.05	317.28	30.44
			2.1	.00	.00	281.05	230.80	
218	DYN	.00	.2	.00	.00	248.21	209.23	121.88
			2.1	.00	.00	248.21	274.81	
318	DYN	.00	.2	.00	.00	220.45	191.18	99.28
			2.1	.00	.00	220.45	238.83	
418	DYN	.00	.2	.00	.00	192.41	179.27	99.06
			2.1	.00	.00	192.41	196.05	
219	DYN	.00	.2	.00	.00	717.84	2810.77	444.79
			7.1	.00	.00	717.84	2142.73	
319	DYN	.00	.2	.00	.00	631.27	2414.72	363.35
			7.1	.00	.00	631.27	1941.58	
419	DYN	.00	.2	.00	.00	262.06	1117.36	182.63
			7.1	.00	.00	262.06	694.89	
220	DYN	.00	.2	.00	.00	958.41	2719.65	79.32
			7.1	.00	.00	958.41	3893.42	
320	DYN	.00	.2	.00	.00	825.02	2426.55	30.77
			7.1	.00	.00	825.02	3266.21	
420	DYN	.00	.2	.00	.00	522.60	1329.65	180.74
			7.1	.00	.00	522.60	2278.37	
221	DYN	.00	.2	.00	.00	4819.53	7865.72	2144.23
			2.6	.00	.00	4819.53	3702.35	



MODELO MATEMATICO EDIF. DE NEFROLOGIA , DUCT.=6 , 0.70SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORQ
321	DYN	.00						1228.11
			.2	.00	.00	3551.07	5777.85	
			2.6	.00	.00	3551.07	2747.26	
421	DYN	.00						1011.28
			.2	.00	.00	2425.01	4023.36	
			2.6	.00	.00	2425.01	1797.90	
322	DYN	.00						1994.14
			.2	.00	.00	957.26	1591.80	
			2.1	.00	.00	957.26	424.82	
322	DYN	.00						1228.15
			.2	.00	.00	1099.04	1947.77	
			2.1	.00	.00	1099.04	397.32	
422	DYN	.00						1050.61
			.2	.00	.00	931.50	1727.58	
			2.1	.00	.00	931.50	325.24	
323	DYN	.00						898.26
			.2	.00	.00	1026.00	553.45	
			2.1	.00	.00	1026.00	2250.26	
323	DYN	.00						453.96
			.2	.00	.00	1046.51	559.42	
			2.1	.00	.00	1046.51	2378.55	
423	DYN	.00						381.65
			.2	.00	.00	901.63	419.73	
			2.1	.00	.00	901.63	1951.59	
224	DYN	.00						82.12
			.2	.00	.00	563.47	1837.36	
			7.0	.00	.00	563.47	2953.15	
324	DYN	.00						45.26
			.2	.00	.00	525.96	1757.90	
			7.0	.00	.00	525.96	1871.66	
424	DYN	.00						142.65
			.2	.00	.00	286.35	1075.10	
			7.0	.00	.00	286.35	902.15	
225	DYN	.00						244.67
			.2	.00	.00	602.10	2154.19	
			7.0	.00	.00	602.10	2005.99	
325	DYN	.00						171.56
			.2	.00	.00	559.28	1966.56	
			7.0	.00	.00	559.28	1893.54	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY

FRAMC ELEMENT FORCES

ELT	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	ENDI	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
425	DYN	.00						71.56
			.2	.00	.00	276.26	895.05	
			7.0	.00	.00	276.26	1011.41	
226	DYN	.00						495.09
			.2	.00	.00	382.89	1742.87	
			4.9	.00	.00	382.89	97.67	
227	DYN	.00						152.95
			.2	.00	.00	382.89	439.67	
			4.9	.00	.00	382.89	1417.46	
228	DYN	.00						360.85
			.2	.00	.00	3069.51	6604.66	
			4.9	.00	.00	3069.51	8103.89	
328	DYN	.00						204.49
			.2	.00	.00	2326.39	5073.80	
			4.9	.00	.00	2326.39	6073.17	
428	DYN	.00						68.66
			.2	.00	.00	968.93	2067.04	
			4.9	.00	.00	968.93	2575.54	
229	DYN	.00						149.20
			.2	.00	.00	2207.12	6483.32	
			4.9	.00	.00	2207.12	4118.87	
329	DYN	.00						93.52
			.2	.00	.00	1648.53	4696.69	
			4.9	.00	.00	1648.53	3216.02	
429	DYN	.00						35.25
			.2	.00	.00	681.36	1998.26	
			4.9	.00	.00	681.36	1272.54	
230	DYN	.00						451.48
			.2	.00	.00	698.17	2599.16	
			7.1	.00	.00	698.17	2218.25	
330	DYN	.00						333.31
			.2	.00	.00	600.36	2219.81	
			7.1	.00	.00	600.36	1922.72	
430	DYN	.00						212.76
			.2	.00	.00	280.85	1045.51	
			7.1	.00	.00	280.85	892.40	
231	DYN	.00						36.92
			.2	.00	.00	548.67	1875.31	
			7.1	.00	.00	548.67	1910.58	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 .0.205x+1.0057

FRAME ELEMENT FORCES

ELT	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	ENDI	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
331	DYN	.00	.2	.00	.00	481.83	1649.60	38.04
			7.1	.00	.00	481.83	1675.07	
431	DYN	.00	.2	.00	.00	219.85	753.71	10.03
			7.1	.00	.00	219.85	763.96	
232	DYN	.00	.2	.00	.00	542.71	1900.56	98.36
			7.0	.00	.00	542.71	1845.29	
332	DYN	.00	.2	.00	.00	482.53	1683.49	74.03
			7.0	.00	.00	482.53	1646.27	
432	DYN	.00	.2	.00	.00	210.80	752.06	19.90
			7.0	.00	.00	210.80	703.19	
233	DYN	.00	.2	.00	.00	763.61	2305.85	208.44
			7.0	.00	.00	763.61	2991.81	
333	DYN	.00	.2	.00	.00	637.26	1984.69	155.39
			7.0	.00	.00	637.26	2426.16	
433	DYN	.00	.2	.00	.00	307.63	915.71	57.29
			7.0	.00	.00	307.63	1214.69	
234	DYN	.00	.2	.00	.00	1318.70	3502.98	2144.06
			2.1	.00	.00	1318.70	977.72	
334	DYN	.00	.2	.00	.00	1357.19	3380.23	1832.99
			2.1	.00	.00	1357.19	791.75	
434	DYN	.00	.2	.00	.00	845.45	1699.67	983.51
			2.1	.00	.00	845.45	317.59	
235	DYN	.00	.2	.00	.00	909.92	2191.48	535.49
			4.8	.00	.00	909.92	2131.65	
335	DYN	.00	.2	.00	.00	737.52	1994.86	471.13
			4.8	.00	.00	737.52	1595.63	

MODELO MATEMATICO EDIF.DE NEFROLOGIA . DUCT.=6 .0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORO
435	DYN	.00						247.17
			.2	.00	.00	465.05	1450.03	
			4.8	.00	.00	465.05	786.98	
236	DYN	.00						157.97
			.2	.00	.00	423.86	1282.14	
			7.0	.00	.00	423.86	1767.75	
336	DYN	.00						113.66
			.2	.00	.00	394.86	1209.82	
			7.0	.00	.00	394.86	1570.60	
436	DYN	.00						88.02
			.2	.00	.00	196.23	611.89	
			7.0	.00	.00	196.23	757.64	
237	DYN	.00						751.95
			.2	.00	.00	3314.83	5049.01	
			3.4	.00	.00	3314.83	5890.33	
337	DYN	.00						412.45
			.2	.00	.00	2368.50	3617.29	
			3.4	.00	.00	2368.50	4199.11	
437	DYN	.00						274.76
			.2	.00	.00	968.22	1332.27	
			3.4	.00	.00	968.22	1864.09	
238	DYN	.00						92.65
			.2	.00	.00	1902.88	3351.35	
			4.8	.00	.00	1902.88	5546.85	
338	DYN	.00						85.57
			.2	.00	.00	1845.35	2895.89	
			4.8	.00	.00	1845.35	5731.16	
438	DYN	.00						93.97
			.2	.00	.00	1229.95	1565.61	
			4.8	.00	.00	1229.95	4183.91	
239	DYN	.00						2147.65
			.2	.00	.00	5927.82	9802.10	
			1.3	.00	.00	5927.82	2737.51	
339	DYN	.00						1819.91
			.2	.00	.00	4831.24	7624.40	
			1.3	.00	.00	4831.24	1886.59	
439	DYN	.00						950.45
			.2	.00	.00	2381.48	3109.09	
			1.3	.00	.00	2381.48	388.10	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORQ
240	DYN	.00						975.94
			.2	.00	.00	2271.21	2635.17	
			3.5	.00	.00	2271.21	4874.71	
340	DYN	.00						906.48
			.2	.00	.00	2148.27	2227.03	
			3.5	.00	.00	2148.27	4876.59	
440	DYN	.00						600.97
			.2	.00	.00	1398.37	1197.95	
			3.5	.00	.00	1398.37	3428.18	
241	DYN	.00						831.99
			.2	.00	.00	3778.38	2270.68	
			3.4	.00	.00	3778.38	10181.12	
341	DYN	.00						731.12
			.2	.00	.00	2808.75	1670.22	
			3.4	.00	.00	2808.75	7598.16	
441	DYN	.00						457.41
			.2	.00	.00	1075.14	482.06	
			3.4	.00	.00	1075.14	3137.05	
242	DYN	.00						109.46
			.2	.00	.00	2798.79	6800.20	
			4.9	.00	.00	2798.79	6621.12	
342	DYN	.00						100.30
			.2	.00	.00	1901.78	4652.22	
			4.9	.00	.00	1901.78	4467.84	
442	DYN	.00						74.68
			.2	.00	.00	688.76	1706.55	
			4.9	.00	.00	688.76	1598.95	
243	DYN	.00						762.87
			.2	.00	.00	11324.54	5314.82	
			1.3	.00	.00	11324.54	8264.55	
343	DYN	.00						844.22
			.2	.00	.00	6885.37	2744.83	
			1.3	.00	.00	6885.37	5511.68	
443	DYN	.00						834.69
			.2	.00	.00	1492.47	469.97	
			1.3	.00	.00	1492.47	2081.85	
244	DYN	.00						606.15
			.2	.00	.00	16520.45	8026.28	
			1.3	.00	.00	16520.45	11783.30	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY

FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 FLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORQ
344	DYN	.00						690.29
			.2	.00	.00	10425.19	4475.42	
			1.3	.00	.00	10425.19	8025.67	
444	DYN	.00						721.81
			.2	.00	.00	2220.42	509.19	
			1.3	.00	.00	2220.42	2872.58	
245	DYN	.00						106.80
			.2	.00	.00	18458.39	10867.53	
			1.3	.00	.00	18458.39	11265.31	
345	DYN	.00						215.77
			.2	.00	.00	11372.88	6648.52	
			1.3	.00	.00	11372.88	6988.32	
445	DYN	.00						319.27
			.2	.00	.00	2754.65	1465.15	
			1.3	.00	.00	2754.65	1839.39	
246	DYN	.00						125.17
			.2	.00	.00	11732.97	6878.34	
			1.3	.00	.00	11732.97	7190.28	
346	DYN	.00						233.35
			.2	.00	.00	6355.19	3678.40	
			1.3	.00	.00	6355.19	3941.94	
446	DYN	.00						309.90
			.2	.00	.00	1211.58	600.94	
			1.3	.00	.00	1211.58	859.49	
247	DYN	.00						188.96
			.2	.00	.00	3126.03	11791.16	
			7.1	.00	.00	3126.03	9778.49	
347	DYN	.00						53.21
			.2	.00	.00	2371.67	8842.06	
			7.1	.00	.00	2371.67	7522.51	
447	DYN	.00						28.76
			.2	.00	.00	1022.93	3917.41	
			7.1	.00	.00	1022.93	3140.84	
248	DYN	.00						203.55
			.2	.00	.00	2929.76	10960.23	
			7.1	.00	.00	2929.76	9255.14	
348	DYN	.00						187.50
			.2	.00	.00	2157.70	8019.63	
			7.1	.00	.00	2157.70	6868.52	

MODELO MATEMATICO EDIF.DE NEFROLOGIA . DUCT.=6 .0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST END1	1-2 PLANE		1-3 PLANE		AXIAL TORQ
				SHEAR	MOMENT	SHLAR	MOMENT	
448	DYN	.00	.2	.00	.00	860.68	3444.60	93.82
			7.1	.00	.00	860.68	2495.22	
249	DYN	.00	.2	.00	.00	2670.68	9263.04	80.00
			7.1	.00	.00	2670.68	9166.30	
250	DYN	.00	.2	.00	.00	2382.09	8127.03	244.18
			7.1	.00	.00	2382.09	8309.48	
350	DYN	.00	.2	.00	.00	1904.50	6570.27	70.75
			7.1	.00	.00	1904.50	6610.80	
450	DYN	.00	.2	.00	.00	742.45	2583.73	84.15
			7.1	.00	.00	742.45	2539.45	
251	DYN	.00	.2	.00	.00	1881.24	6997.77	60.27
			7.1	.00	.00	1881.24	5982.97	
351	DYN	.00	.2	.00	.00	1666.18	5951.59	66.43
			7.1	.00	.00	1666.18	5545.10	
451	DYN	.00	.2	.00	.00	1009.55	3057.72	58.68
			7.1	.00	.00	1009.55	3913.31	
252	DYN	.00	.2	.00	.00	2613.54	9854.89	198.03
			7.1	.00	.00	2613.54	8178.53	
352	DYN	.00	.2	.00	.00	1924.04	7160.75	166.37
			7.1	.00	.00	1924.04	6115.13	
452	DYN	.00	.2	.00	.00	812.00	3072.78	105.61
			7.1	.00	.00	812.00	2530.06	
253	DYN	.00	.2	.00	.00	4182.67	14284.47	84.08
			7.1	.00	.00	4182.67	14575.67	
353	DYN	.00	.2	.00	.00	3316.36	11516.41	75.25
			7.1	.00	.00	3316.36	11366.50	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORQ
453	DYN	.00						26.80
			.2	.00	.00	1446.17	5000.18	
			7.1	.00	.00	1446.17	4978.38	
254	DYN	.00						41.80
			.2	.00	.00	2584.33	8952.95	
			7.1	.00	.00	2584.33	8878.92	
354	DYN	.00						37.82
			.2	.00	.00	2663.08	10138.99	
			7.1	.00	.00	2663.08	8236.29	
454	DYN	.00						13.02
			.2	.00	.00	1097.75	4165.04	
			7.1	.00	.00	1097.75	3409.57	
255	DYN	.00						311.40
			.2	.00	.00	2621.84	8364.60	
			2.3	.00	.00	2621.84	2873.22	
355	DYN	.00						261.75
			.2	.00	.00	2339.21	7059.22	
			2.3	.00	.00	2339.21	2156.68	
455	DYN	.00						140.26
			.2	.00	.00	1268.31	3338.93	
			2.3	.00	.00	1268.31	685.28	
256	DYN	.00						220.86
			.2	.00	.00	2577.71	2200.94	
			2.2	.00	.00	2577.71	3024.66	
356	DYN	.00						157.44
			.2	.00	.00	2326.13	1548.04	
			2.2	.00	.00	2326.13	3169.60	
456	DYN	.00						159.71
			.2	.00	.00	1293.91	346.05	
			2.2	.00	.00	1293.91	2292.96	
257	DYN	.00						196.03
			.2	.00	.00	6201.84	2032.11	
			2.3	.00	.00	6201.84	11462.87	
357	DYN	.00						126.65
			.2	.00	.00	4253.54	1129.01	
			2.3	.00	.00	4253.54	8139.60	
457	DYN	.00						84.37
			.2	.00	.00	3484.67	1354.17	
			2.2	.00	.00	3484.67	6240.81	



MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY PROGRAM:SAP90/FILE:NEFRO.F3F

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE		1-3 PLANE		AXIAL TORQ
				SHEAR	MOMENT	SHEAR	MOMENT	
258	DYN	.00						39.72
			.2	.00	.00	532.37	496.61	
			2.3	.00	.00	532.37	622.00	
358	DYN	.00						34.35
			.2	.00	.00	421.38	395.78	
			2.3	.00	.00	421.38	489.47	
458	DYN	.00						15.26
			.2	.00	.00	133.00	142.73	
			2.3	.00	.00	133.00	137.48	
259	DYN	.00						40.28
			.2	.00	.00	1072.36	1021.06	
			2.2	.00	.00	1072.36	1150.89	
359	DYN	.00						26.47
			.2	.00	.00	822.46	796.50	
			2.2	.00	.00	822.46	869.26	
459	DYN	.00						35.51
			.2	.00	.00	570.13	451.19	
			2.2	.00	.00	570.13	705.00	
260	DYN	.00						54.72
			.2	.00	.00	1485.91	1462.76	
			2.3	.00	.00	1485.91	1769.10	
360	DYN	.00						37.80
			.2	.00	.00	997.66	997.68	
			2.3	.00	.00	997.66	1172.24	
460	DYN	.00						30.77
			.2	.00	.00	869.01	900.27	
			2.3	.00	.00	869.01	989.83	
261	DYN	.00						39.76
			.2	.00	.00	534.87	464.12	
			2.3	.00	.00	534.87	659.14	
361	DYN	.00						33.41
			.2	.00	.00	394.58	354.34	
			2.3	.00	.00	394.58	474.33	
461	DYN	.00						24.93
			.2	.00	.00	344.54	287.15	
			2.3	.00	.00	344.54	436.46	
262	DYN	.00						3.16
			.2	.00	.00	853.09	894.99	
			2.2	.00	.00	853.09	832.52	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORQ
362	DYN	.00						1.58
			.2	.00	.00	644.93	674.01	
			2.2	.00	.00	644.93	631.99	
462	DYN	.00						1.99
			.2	.00	.00	639.26	657.64	
			2.2	.00	.00	639.26	636.89	
263	DYN	.00						21.97
			.2	.00	.00	833.52	839.74	
			2.3	.00	.00	833.52	973.18	
363	DYN	.00						24.20
			.2	.00	.00	592.76	607.98	
			2.3	.00	.00	592.76	681.31	
463	DYN	.00						24.22
			.2	.00	.00	538.79	582.96	
			2.3	.00	.00	538.79	588.94	
264	DYN	.00						665.31
			.2	.00	.00	9284.51	9710.62	
			2.3	.00	.00	9284.51	9787.05	
364	DYN	.00						488.22
			.2	.00	.00	6695.71	7354.86	
			2.3	.00	.00	6695.71	6706.35	
464	DYN	.00						327.00
			.2	.00	.00	4731.45	5277.43	
			2.3	.00	.00	4731.45	4658.88	
265	DYN	.00						580.82
			.2	.00	.00	3807.82	8068.75	
			2.2	.00	.00	3807.82	373.67	
365	DYN	.00						429.65
			.2	.00	.00	3257.19	6931.97	
			2.2	.00	.00	3257.19	374.60	
465	DYN	.00						325.61
			.2	.00	.00	2755.30	5984.08	
			2.2	.00	.00	2755.30	430.70	
266	DYN	.00						277.78
			.2	.00	.00	3782.78	662.86	
			2.3	.00	.00	3782.78	8880.88	
366	DYN	.00						159.40
			.2	.00	.00	3202.23	553.57	
			2.3	.00	.00	3202.23	7491.93	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORQ
466	DYN	.00						107.22
			.2	.00	.00	2706.27	343.39	
			2.3	.00	.00	2706.27	6196.96	
267	DYN	.00						440.80
			.2	.00	.00	629.65	2503.34	
			4.9	.00	.00	629.65	514.65	
268	DYN	.00						608.94
			.2	.00	.00	629.65	346.94	
			4.9	.00	.00	629.65	2672.92	
269	DYN	.00						119.63
			.2	.00	.00	3387.11	10691.61	
			7.0	.00	.00	3387.11	12679.48	
369	DYN	.00						88.79
			.2	.00	.00	2537.40	7934.52	
			7.0	.00	.00	2537.40	9573.58	
469	DYN	.00						65.41
			.2	.00	.00	1106.97	3416.64	
			7.0	.00	.00	1106.97	4221.55	
270	DYN	.00						238.69
			.2	.00	.00	2367.79	8070.76	
			7.0	.00	.00	2367.79	8267.53	
370	DYN	.00						183.03
			.2	.00	.00	1903.20	6500.06	
			7.0	.00	.00	1903.20	6632.02	
470	DYN	.00						170.40
			.2	.00	.00	1098.71	4307.00	
			7.0	.00	.00	1098.71	3281.68	
271	DYN	.00						49.44
			.2	.00	.00	2155.73	7116.69	
			7.0	.00	.00	2155.73	7758.13	
371	DYN	.00						62.24
			.2	.00	.00	1729.25	5791.28	
			7.0	.00	.00	1729.25	6140.81	
471	DYN	.00						45.54
			.2	.00	.00	957.31	3665.46	
			7.0	.00	.00	957.31	2948.65	
272	DYN	.00						62.53
			.2	.00	.00	2106.63	7334.40	
			7.0	.00	.00	2106.63	7201.39	

MODELO MATEMATICO EDIF.DE NEFROLOGIA . DUCT.=6 .0.20SX+1.00SY

## FRAME ELEMENT FORCES

ELT	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	END1	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
372	DYN	.00	.2	.00	.00	1608.36	5583.98	52.73
			7.0	.00	.00	1608.36	5513.72	
472	DYN	.00	.2	.00	.00	647.52	2291.19	14.08
			7.0	.00	.00	647.52	2176.76	
273	DYN	.00	.2	.00	.00	1247.79	4291.27	176.66
			7.0	.00	.00	1247.79	4318.75	
373	DYN	.00	.2	.00	.00	1016.52	3501.81	129.78
			7.0	.00	.00	1016.52	3512.26	
473	DYN	.00	.2	.00	.00	445.44	1547.98	85.38
			7.0	.00	.00	445.44	1526.43	
274	DYN	.00	.2	.00	.00	2935.92	9521.83	72.47
			7.0	.00	.00	2935.92	10736.07	
374	DYN	.00	.2	.00	.00	2309.30	7495.06	54.97
			7.0	.00	.00	2309.30	8439.14	
474	DYN	.00	.2	.00	.00	904.08	2779.70	35.07
			7.0	.00	.00	904.08	3459.98	
275	DYN	.00	.2	.00	.00	2320.82	8150.26	98.06
			7.0	.00	.00	2320.82	7863.74	
375	DYN	.00	.2	.00	.00	1804.28	6336.96	58.56
			7.0	.00	.00	1804.28	6112.87	
475	DYN	.00	.2	.00	.00	683.70	2363.38	21.27
			7.0	.00	.00	683.70	2355.12	
276	DYN	.00	.2	.00	.00	2401.78	7985.62	156.14
			7.0	.00	.00	2401.78	8687.48	
376	DYN	.00	.2	.00	.00	1825.09	6023.21	121.09
			7.0	.00	.00	1825.09	6570.46	

MODELO MATEMATICO EDIF.DE NEFROLOGIA . DUCT.=6 .0.30SX+1.00SY

## FRAME ELEMENT FORCES

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE		1-3 PLANE		AXIAL TORO
				SHEAR	MOMENT	SHEAR	MOMENT	
476	DYN	.00	.2	.00	.00	791.94	2520.96	65.40
			7.0	.00	.00	791.94	2943.86	
277	DYN	.00	.2	.00	.00	2523.54	4504.65	428.66
			4.9	.00	.00	2523.54	7709.11	
377	DYN	.00	.2	.00	.00	1771.35	3297.66	291.14
			4.9	.00	.00	1771.35	5163.50	
477	DYN	.00	.2	.00	.00	711.32	1257.49	158.57
			4.9	.00	.00	711.32	2226.52	
278	DYN	.00	.2	.00	.00	6032.35	9137.96	441.97
			3.4	.00	.00	6032.35	10768.97	
378	DYN	.00	.2	.00	.00	4419.57	6717.94	261.63
			3.4	.00	.00	4419.57	7866.77	
478	DYN	.00	.2	.00	.00	1682.41	2386.25	196.23
			3.4	.00	.00	1682.41	3166.01	
279	DYN	.00	.2	.00	.00	2044.42	6916.11	44.84
			7.1	.00	.00	2044.42	7190.40	
379	DYN	.00	.2	.00	.00	1578.55	5380.34	47.68
			7.1	.00	.00	1578.55	5511.66	
479	DYN	.00	.2	.00	.00	660.08	2240.86	12.59
			7.1	.00	.00	660.08	2313.75	
280	DYN	.00	.2	.00	.00	3689.70	10280.38	354.10
			3.5	.00	.00	3689.70	2017.47	
380	DYN	.00	.2	.00	.00	2706.47	7435.50	272.63
			1.5	.00	.00	2706.47	1581.41	
480	DYN	.00	.2	.00	.00	1117.94	3086.80	108.02
			3.5	.00	.00	1117.94	641.05	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 ,0.30SX+1.00SY

## F R A M E E L E M E N T F O R C E S

ELT ID	LOAD COND	AXIAL FORCE	DIST ENDI	1-2 PLANE		1-3 PLANE		AXIAL TORQ
				SHEAR	MOMENT	SHEAR	MOMENT	
281	DYN	.00						325.50
			.2	.00	.00	822.17	1977.06	
			1.5	.00	.00	822.17	3392.69	
781	DYN	.00						246.75
			.2	.00	.00	618.22	1559.48	
			1.5	.00	.00	618.22	2510.02	
481	DYN	.00						132.15
			.2	.00	.00	219.95	664.51	
			1.5	.00	.00	219.95	900.93	
500	DYN	.00						150.16
			.2	.00	.00	164.36	37.50	
			2.1	.00	.00	164.36	283.32	
501	DYN	.00						62.05
			.2	.00	.00	164.36	126.15	
			2.3	.00	.00	164.36	225.15	
502	DYN	.00						11.94
			.2	.00	.00	1491.11	1581.20	
			2.3	.00	.00	1491.11	1550.13	
503	DYN	.00						40.36
			.2	.00	.00	628.48	658.92	
			2.2	.00	.00	628.48	614.64	
504	DYN	.00						5.07
			.2	.00	.00	413.76	914.07	
			2.2	.00	.00	413.76	76.21	
505	DYN	.00						29.00
			.2	.00	.00	275.42	339.50	
			2.6	.00	.00	275.42	321.51	
506	DYN	.00						50.44
			.2	.00	.00	284.73	307.45	
			2.1	.00	.00	284.73	247.80	
507	DYN	.00						5.07
			.2	.00	.00	1324.74	1349.08	
			2.2	.00	.00	1324.74	1532.27	
508	DYN	.00						13.96
			.2	.00	.00	1106.84	1116.07	
			2.3	.00	.00	1106.84	1291.34	
509	DYN	.00						47.84
			.2	.00	.00	289.29	356.28	
			2.3	.00	.00	289.29	272.95	

MODELO MATEMATICO EDIF.DE NEFROLOGIA , DUCT.=6 .0.30SX+1.00SY

FRAME ELEMENT FORCES

ELT	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	END1	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
510	DYN	.00						5.07
			.2	.00	.00	413.76	47.93	
			2.3	.00	.00	413.76	947.85	
511	DYN	.00						31.23
			.2	.00	.00	283.14	333.10	
			2.6	.00	.00	283.14	346.46	
512	DYN	.00						137.21
			.2	.00	.00	207.98	318.31	
			2.1	.00	.00	207.98	143.22	
513	DYN	.00						179.33
			.2	.00	.00	207.54	145.28	
			2.1	.00	.00	207.54	322.66	