


Souřadnicový systém: JTSK  
Výškový systém: Balt p.v.

Číslo zakázky:	17 710 00	HIP:		 Praha 4, Bezová 1658, 147 14 tel: +420 244062215 fax: +420 244461038 stř. Č. Budějovice, Žižkova 12, 370 01
Schválil:	Ing. Václav HVÍZDAL	Zodp. projektant:	Ing. František KOŠÁN	
			38 7718 506, 602 496 210 kosan@pontex.cz	
Tech. kontrola:	Ing. Jan KOMANEC	Vypracoval:	Ing. František KOŠÁN	

Objednatel:	ŘSD ČR, správa Praha	Obec:	KOIřn	Kraj:	Středočeský
Akce:	I/38 KOLÍN, MOSTY EV. Č. 38H-037, 38H-037A, 38H-039, 38H-040			Datum	Stupeň
				4/2019	VD-ZDS
Objekt:	SO 203 - MOST EV. Č. 38H-039			Souprava	Č. přílohy
Příloha:	STATICKÝ VÝPOČET				B.203-21

## I/38H Kolín, mosty ev. č. 38H-037, 037a, 039, 040 SO 203 : Most ev. č. 38H-039- Statický výpočet

### Statický výpočet.

Most je ve správě ŘSD ČR, někdy v budoucnosti bude předaný Městu Kolín. Most má 1 prosté pole. Převádí sil. I/38H přes potok Polepka, jež je ve správě Povodí Labe s. p. středisko Čáslav. Most je šikmý, šikmost je 55,013°.

Při rekonstrukci mostu budou stávající nosná konstrukce a horní část opěr odstraněny. Na nových monolitických železobetonových úložných prazích bude osazena nová nosná konstrukce: deskové prefabrikáty z dodatečně předpjatého betonu, vzájemně spojené monolitickým dobetonováním a petlicovým stykem výztuže, osazené na elastomerová ložiska.

Při rekonstrukci mostu rozpětí mostního pole bude 12,0 m, nyní je 11,40 m. Byla počítána svislá síla na piloty v přední řadě od stálého a nahodilého zatížení po rekonstrukci bude nižší než svislá síla od stálého a nahodilého zatížení, na jaké byl most dimenzován. Rekonstrukce mostu bude provedena po polovinách. V každé etapě výstavby bude na mostě 1 jízdní pruh šířky 3,50 m.

Nosná konstrukce je navržena z 8 dodatečně předpjatých deskových prefabrikátů. Beton deskových prefabrikátů je C 35/45. Monolitické dobetonování a koncové příčníky jsou z betonu C 30/37, výztuž je 10 S505-R. Roznos zatížení na jednotlivé deskové prefabrikáty je počítán programy ROSPRE a DEFOR. Jsou posouzeny všechny prefabrikáty, neb každý prefabrikát má jiný moment setrvačnosti a tím i jinou tuhost ve svislém směru.

Nosná konstrukce bude předepnuta v době, kdy beton dosáhne krychelné pevnosti 48,0 MPa. Bude použitý certifikovaný předpínací systém, např. „DYWIDAG“. Je navržen typ kabelu „6812“, každý kabel je z 12 lan, rep. 13 lan u prefabrikátu o průměru  $L_p$  15,7 mm ( $F = 150 \text{ mm}^2$ ) s velmi nízkou relaxací. Kabelové kanálky mají průměr 80 mm, součinitel tření : v oblouku 0,20, přímé -0,001 dle DIN. Předpínací napětí je 1368,0 MPa, bude podrženo 3 minuty, předpínací síla je 2,471 MN, resp. 2,677 MN u prefabrikátu „A“. Každá deska je předepnuta 3 kabely, které budou napínané jednostranně. Dva kabely mají na jednom konci napínanou kotvu, na druhém mrtvou kotvu. Jeden kabel má na obou koncích napínané kotvy.

Předpínací výztuž je posouzena programy TM 18.

Svislé síly na ložiska jsou počítány na deskovém modelu programem IDA NEXIS, je uvažováno pružné podepření v místech ložisek.

Příčná výztuž bude uložena kolmo na podélnou výztuž, tzn. též na předpínací výztuž. Příčná výztuž bude stykována petlicovým stykem. Byla počítána programy ROSPRE a DEFOR, a na deskovém modelu programem IDA NEXIS. V pruzích nad podporami, šikmé šířky 2,00 m bude zhuštěna.

Zatížitelnost mostu dle ČSN 73 6222 :

Normální :  $V_n = 32 \text{ t}$

Výhradní :  $V_r = 90 \text{ t}$

Vyjímečná :  $V_e = 180 \text{ t}$

### **Podklady a použitá literatura :**

- 1) ČSN EN 1991-2 – Zatížení konstrukcí – Část 2 : Zatížení mostů dopravou, změna Z3/2012
- 2) ČSN EN 1992-1-1 : Betonové konstrukce, Obecná pravidla
- 3) ČSN EN 1992-2 : Betonové konstrukce, Mosty
- 4) ČSN 73 6203 – Zatížení mostů.....1969 + zm. 1976
- 5) ČSN 73 6222 : Zatížitelnost mostů pozemních komunikací.....2013

### **Použité programy :**

BETON 2.1 – Posouzení žlb. průřezu..... (V. Kvasnička)  
EXCELL : tabulkový procesor  
DEFOR – Výpočet prutových konstrukcí.....(FEM consulting. Brno)  
ROSPRE – Předprocesor programu DEFOR.....(V. Kvasnička)  
PC-4 – Vyhodnocení příčinkových čar.....(V. Kvasnička)  
TM 18– Výpočty mostů z předpjatého betonu..... (Pragoprojekt, I. Sitař)  
IDA NEXIS : Výpočty konstrukcí metodou konečných prvků.....(SCIA a. s.)

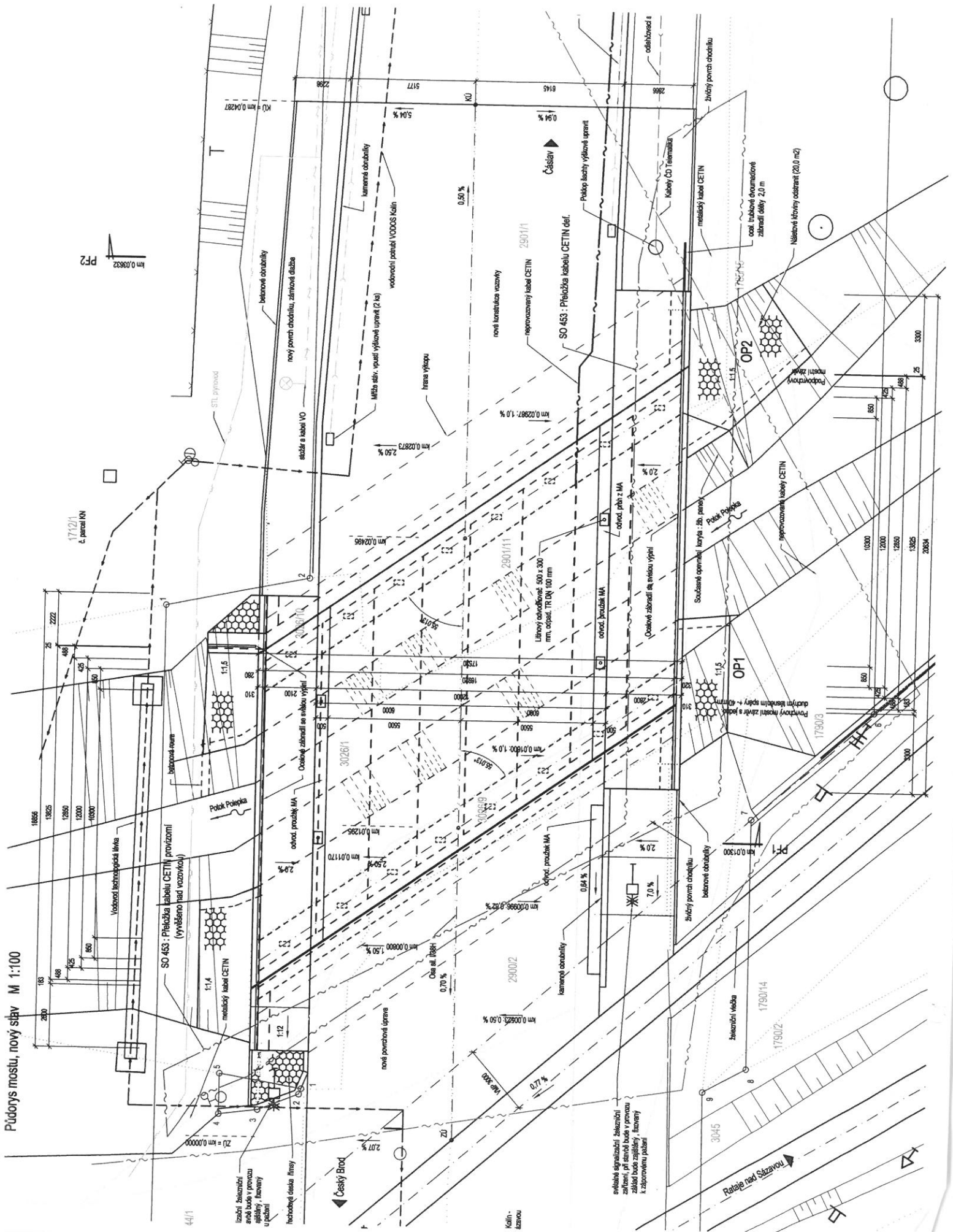
## Obsah :

Schema mostu.....	str. 3
Zatěžovací schema.....	str. 8
Posouzení založení mostu porovnávacím statickým výpočtem.....	str. 10
Ložiska .....	str. 15
Nosníky .....	str. 19
Předpětí.....	str. 29
Předpínací výztuž, schema.....	str. 63

# SCHEMA MOSTU

-3-

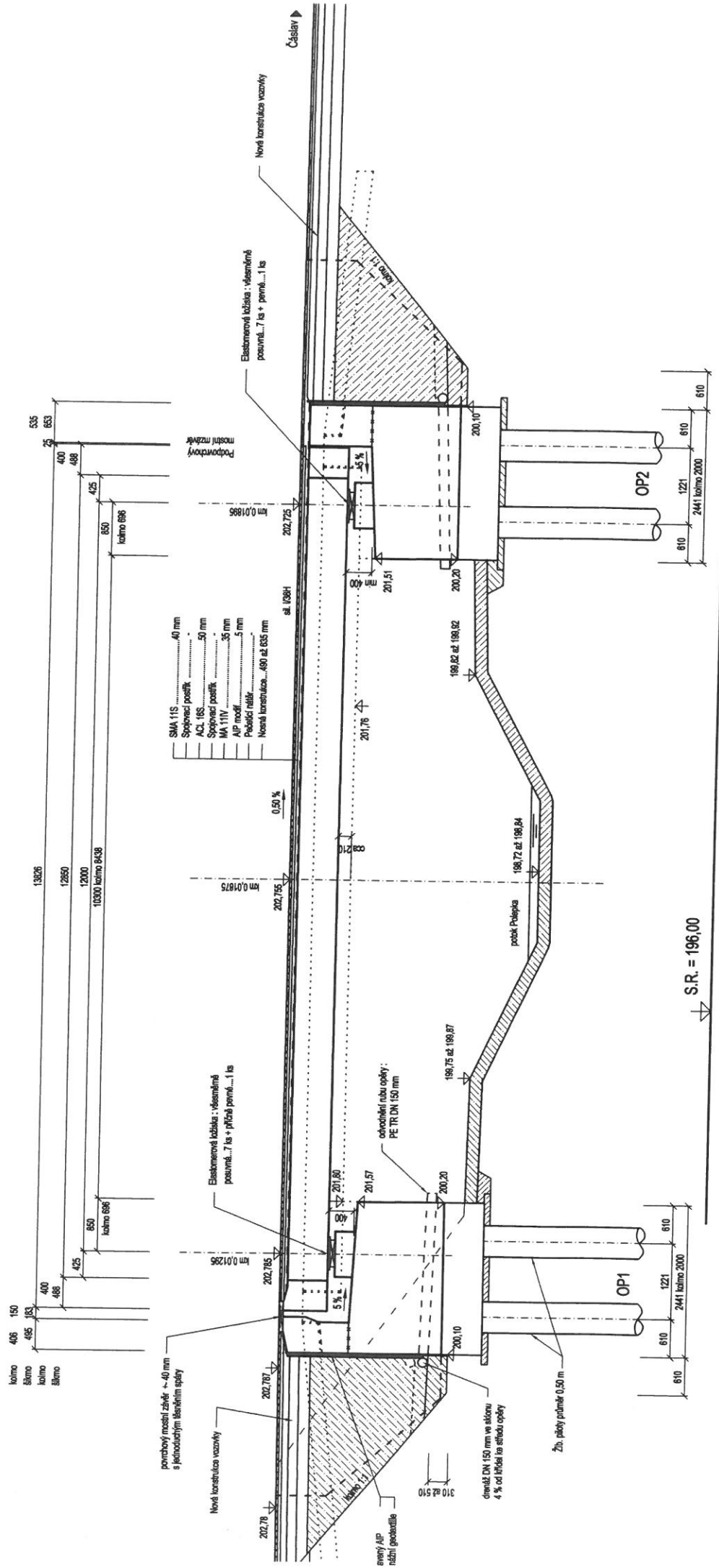
Půdorys mostu, nový stav M 1:100





# Podélný řez, nový stav M 1:50

Šířka mostu je 55,013 m

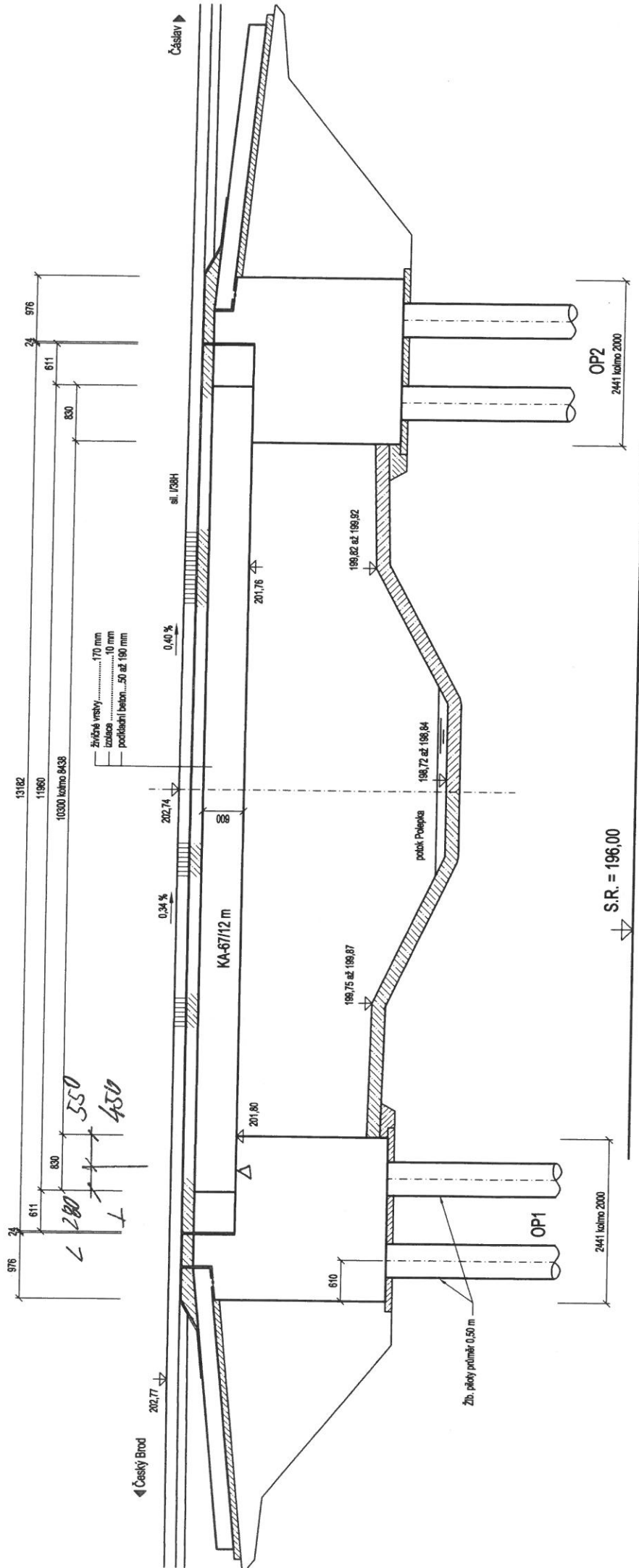


S.R. = 196,00



# Podélný řez, stávající stav M 1:50

Skvrnitost mostu je 55,013 stupňů



Technical drawing of a bridge structure, showing cross-sections and longitudinal profile.

**Cross-sections (Left):**

- Top Section:**
  - živý povrch..... 50 mm
  - výpůjčkový beton..... 235 až 250 mm
  - izolace..... 10 mm
  - podkladní beton..... 50 až 82 mm
- Bottom Section:**
  - živý povrch..... 50 mm
  - výpůjčkový beton..... 230 až 250 mm
  - izolace..... 10 mm
  - podkladní beton..... 190 mm

**Longitudinal Profile (Right):**

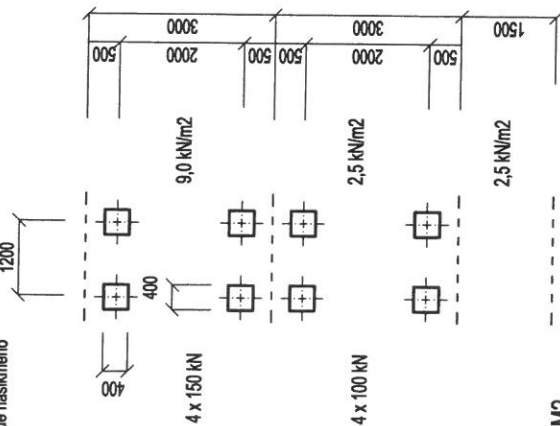
- Structure:** nosníky KA-57/12 m
- Elevations:** 202.80, 202.77, 202.74, 202.73, 202.85, 202.87, 201.78
- Slopes:** 2.40 %, 0.0 %
- Labels:** Český Brod, elektrický kabel, ocel. trubka DN 220 mm
- Dimensions:** 580, 440, 240, 280

**Calculation:**

$$17 \times 980 + 10 \times 30 + 6 \times 20 = 17080$$

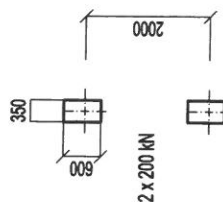
LM1

Dynamický součinitel je již zahrnutý  
Nebude našikmno



LM2

Dynamický součinitel je již zahrnutý  
Nebude našikmno

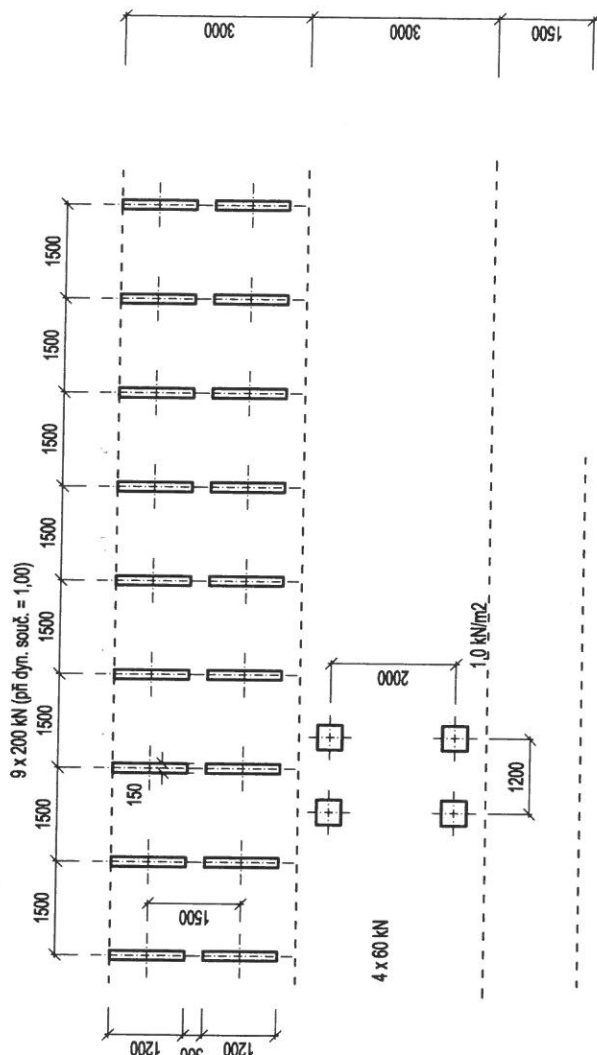


LM4

Dynamický součinitel je již zahrnutý  
Též na chodníku a na lávkách  
5 kN/m<sup>2</sup>

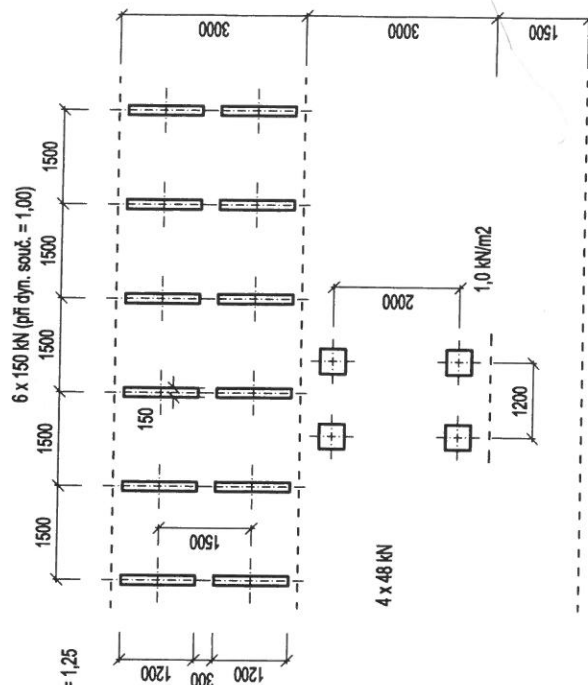
LM3 1800 kN

Jede v ideální ose s odchylkou  $\pm 0,50$  m  
Dynamický součinitel = 1,25  
Nebude našikmno



LM3 900 kN

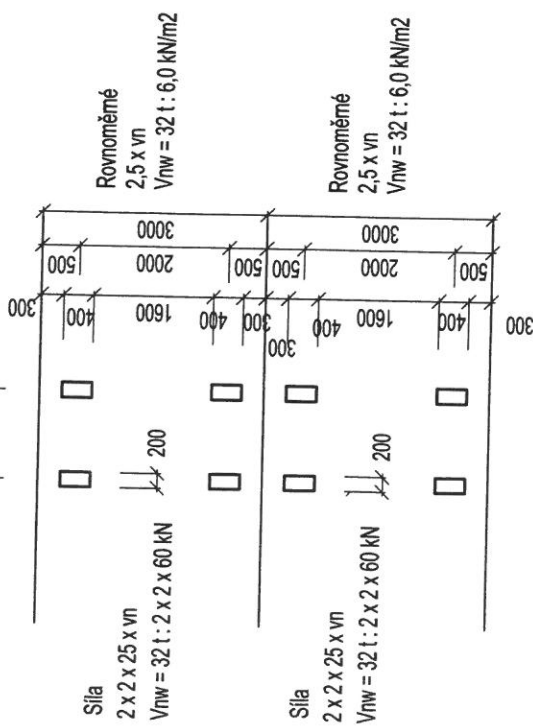
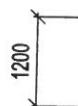
Jede v jízdním pruhu  
Dynamický součinitel = 1,25  
Nebude našikmno



# Zatížení dle ČSN 73 6222/2013 - Zatížitelnost mostů pozemních komunikací

## Normální zatížitelnost

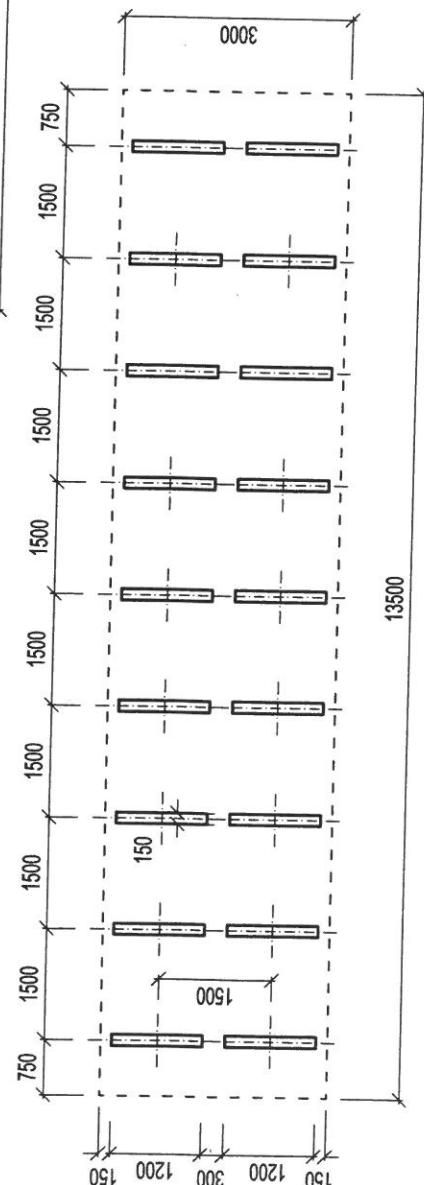
dynamický součinitel : 1 pruh ..... 1,25, 2 pruhy ..... 1,20, 3 a více pruhů ..... 1,15



1,0 x vn  
 $V_{nw} = 32 \text{ t} : 2,4 \text{ kN/m}^2$

## Výjimečná zatížitelnost

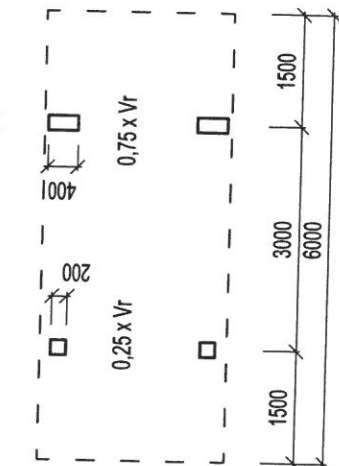
dynamický součinitel : 1,05



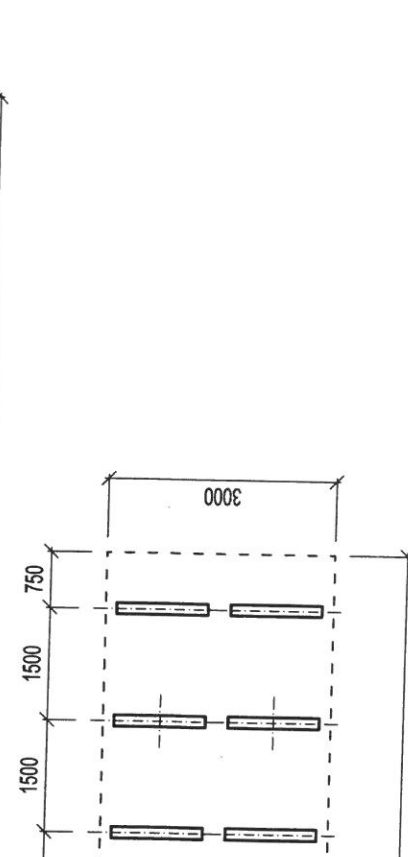
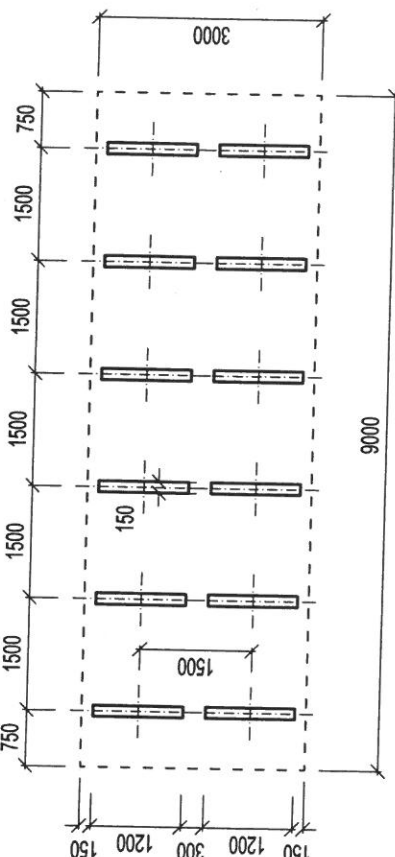
## Výhradní zatížitelnost

dynamický součinitel : 1,25

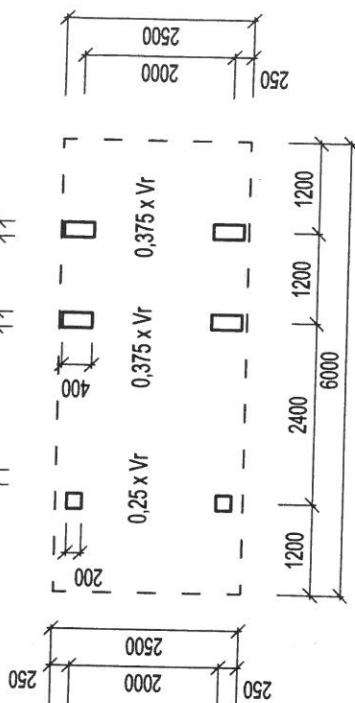
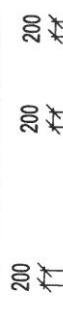
Dvounáprava : Vr menší nebo rovné 16 t



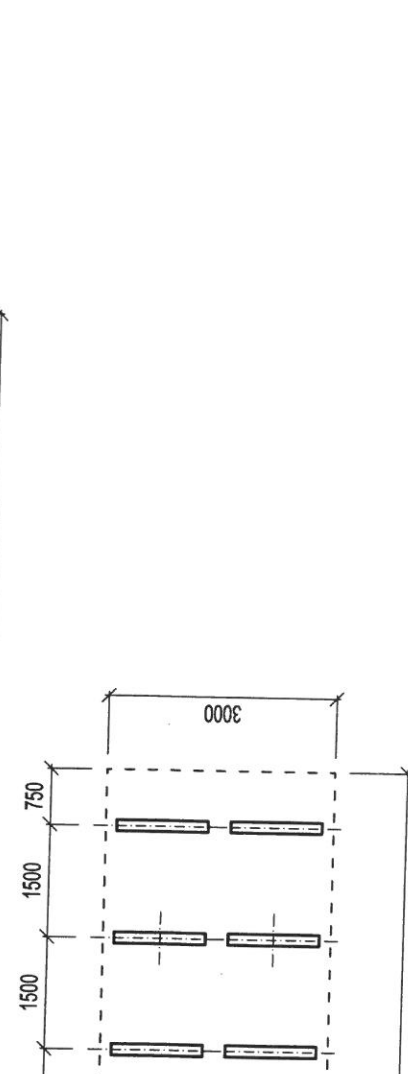
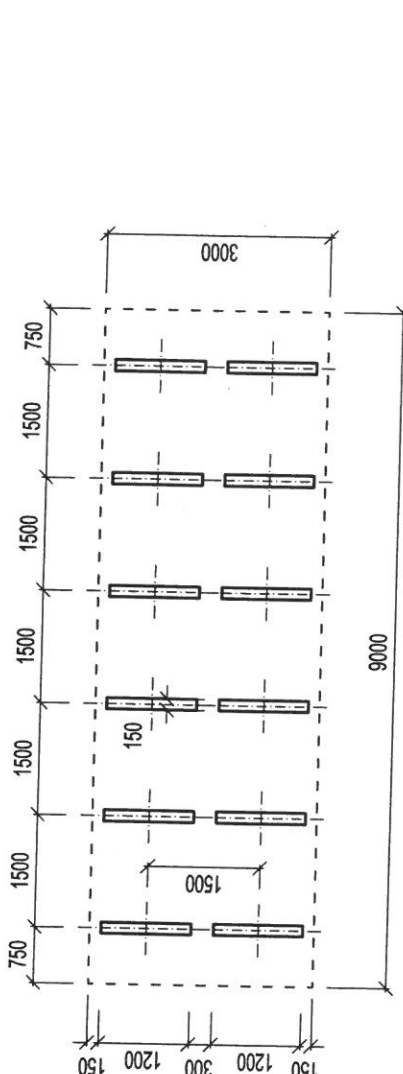
Čtyřnáprava : Vr větší 50 t



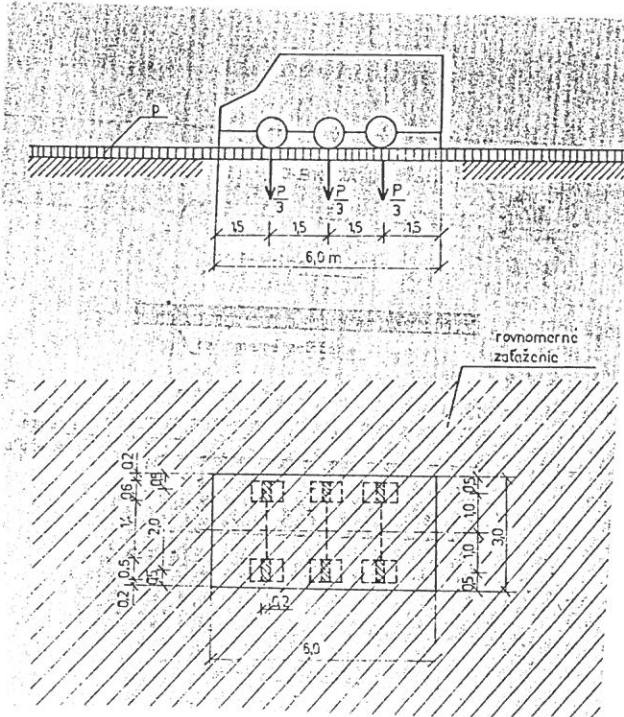
Třináprava : Vr menší nebo rovné 50 t



Čtyřnáprava : Vr větší 50 t



ZATĚŽOVACÍ SCHEMA DLE ČSN 73 6203/1968 +  
+ zm. 1976



$\sigma_r =$

Zat. tr. A:  $P = 600 \text{ kN}$

Zat. tr. B:  $P = 300 \text{ kN}$

Nahodité zatížení na  
chodníku:  $p = 400 \text{ kPa}$

Kombinace :

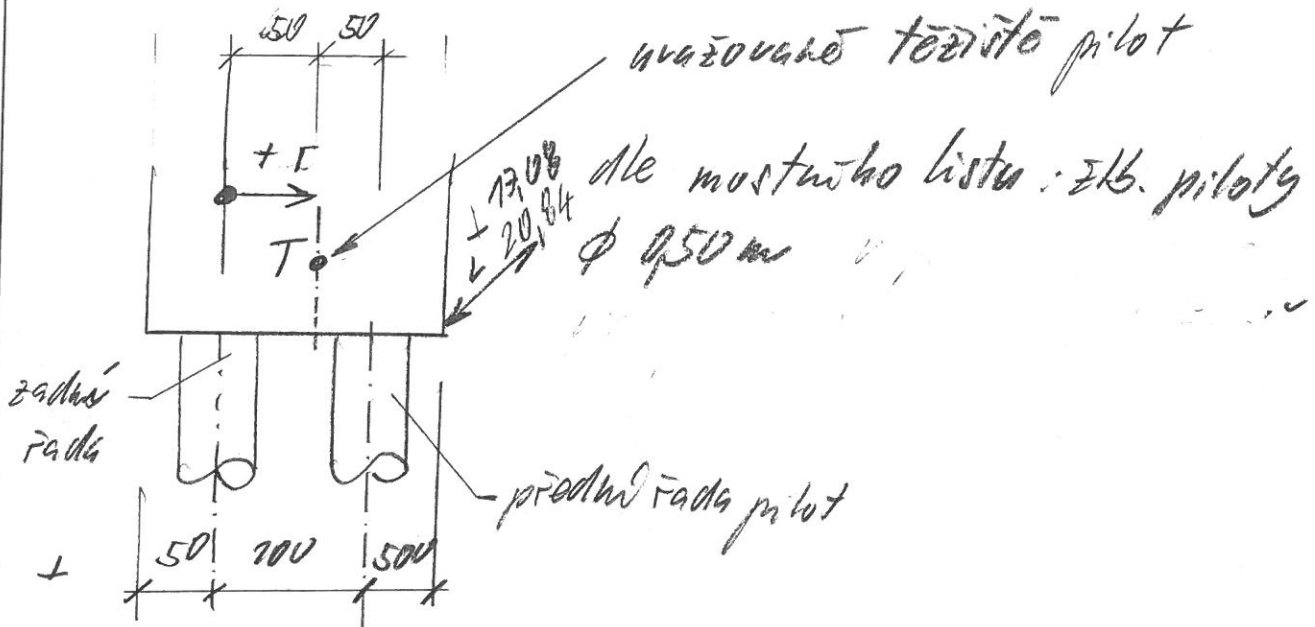
- 1) základní rovnoměrné + 3 náprava ✓
- 2) základní rovnoměrné + zat. pás šířky 3,0m

Základní rovnoměrné:  $p = 3,00 \text{ kN/m}^2$

Zatěžovací pás š. 3,0m:  $p =$



# PROVĚZENÍ ZALOŽENÍ MOSTU POROVNÁVACÍM STATICKÝM VÝPOČTEM



porovnání skutečné zátěže na piloty od stálého zátěže stávajícího, původního nahoditého zátěže se stálým zátěže po rekonstrukci, a současných nahodilých zátěžů.

Nahodité zátěže: uvažuji součinitel  $\gamma_{Fk} \geq 1,00$   
10702 kN 7.7 na výšku 30 m

Původní stálé

Nosná konstrukce: reakce

[kN]

$$\text{nosníky} : 77 \cdot \frac{1}{2} \cdot 94,7$$

805,0

$$\text{dob. spár} : 25,0 \cdot 16 \cdot \frac{11,96}{2} \cdot 0,052 =$$

124,4

$$\text{další nosníky} : 25,0 \cdot 10 \cdot 16 \cdot 0,2416 =$$

96,6

$$\text{dob. cel. nosníků} : 25 \cdot 0,6 \cdot 0,611 \cdot 17,08 =$$

156,5

$$\text{zábradlí} : 13,18 \cdot 0,6 =$$

7,9

$$\text{mostní svršek} : 240 \cdot 0,52 \cdot \frac{13,18}{2} =$$

1037,2

$\leq R$

2227,6 kN

$$r = 1,05 \text{ m}$$

$$\text{přechod. deska: } 25 \cdot 0,25 \cdot 11,6 \cdot 1,76 =$$

$$127,6 \text{ kN}$$

$$r =$$

$$-0,305 \text{ m}$$

$$\text{závětná žilka: } 25 \cdot 17,08 \cdot 0,976 \cdot 0,768 =$$

$$320,7 \text{ kN}$$

$$r =$$

$$-0,10 \text{ m}$$

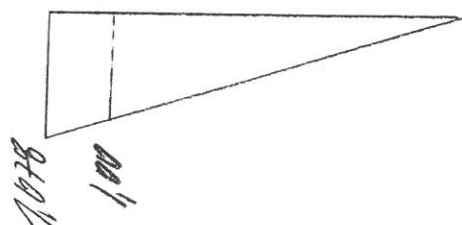
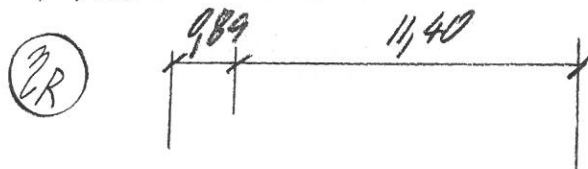
$$\text{úložný pruh: } 25 \cdot 17,08 \cdot 225 \cdot 2,44 =$$

$$2344,2 \text{ kN}$$

$$r =$$

$$0,00 \text{ m}$$

Náhodité zatížení



rovnomořné na vozovce a na chodníku:  $k = 700$

$$p = 120 \cdot 5,0 + 40 \cdot [2,94 + 2,66] = 78,4 \text{ kN/m}$$

$$R_1 = 519,3 \text{ kN}$$

$$\text{třída prahu: } B = 2,5 + 2,2 + 3,0 = 7,70 \text{ m}$$

$$k = \frac{1708}{7,70} = 2218$$

$$R_2 = 0,946 \cdot 600 \cdot 2218 = 1259,0 \text{ kN}$$

$$R = 1778,3 \text{ kN} \quad r = 1,05 \text{ m}$$

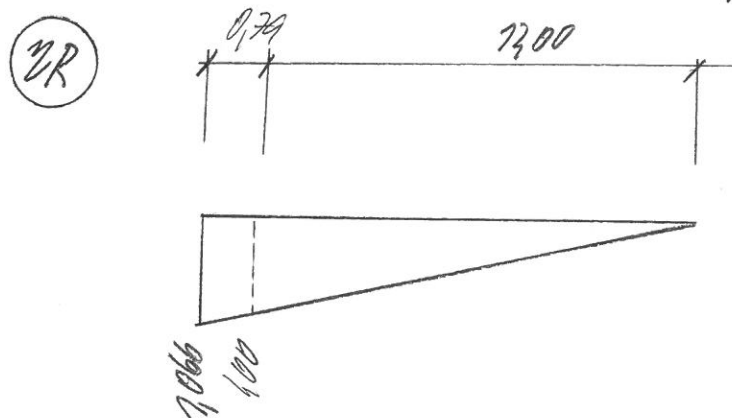
Stálé zatížení po rekonstrukci  
nosné konstrukce :  $25,5 \cdot 9,80 \cdot \frac{13,83}{2} = 1728,70 \text{ kN}$   
 zábradlí :  $13,83 \cdot 0,6 = 8,3 \text{ kN}$   
 vozovka :  $13,83 \cdot 240 \cdot \frac{13,0}{2} \cdot 0,13 = 259,0 \text{ kN}$   
 římsy :  $25,0 \cdot \frac{13,83}{2} \cdot [0,726 + 0,928] = 286,0 \text{ kN}$   
 $\Sigma R = 2287,4 \text{ kN}$

$r = 1,50 - 0,696 = 0,804 \text{ m}$

Záporná zátka :  $25,0 \cdot 1,04 \cdot 17,08 \cdot 0,495 = 219,8 \text{ kN}$   
 $r = -0,297 \text{ m}$   
 vložený prvek :  $25,0 \cdot 17,08 \cdot 5,024 = 2145,2 \text{ kN}$   
 $r = 0,00 \text{ m}$

Nahodité zatížení současně

nahodité na chodníku  $k = 100$



$R = 100 \cdot [277 + 286] \cdot 5,0 \cdot 13,79 \cdot \frac{1,066}{2} = 167,0 \text{ kN}$   
 $r = 0,804 \text{ m}$

LM1:

$$\text{rovh. 1: } k=1,00 \quad p=12,25=390 \text{ kN/m'}$$

$$R_1 = 2045 \text{ kN}$$

$$\text{rovh. 2: } B=22+30+30=82 \text{ m} \quad k=2,08 \text{ m}$$

$$R_2 = 2,08 \cdot 12,25 \cdot \frac{4,066}{2} \cdot 30 \cdot 6,5 = 276,5 \text{ kN}$$

$$\text{vozidlo: } B=22+57+30=109 \text{ m} \quad k=1,57$$

$$R_3 = 1,57 \cdot 1000 \cdot 1,00 = 1570,0 \text{ kN}$$

$$\Sigma R = 2057,0 \text{ kN}$$

$$\text{LM3 } 1800 \text{ kN: } B=27+30+30=87 \text{ m}$$

$$k=1,963$$

$$R = 1,963 \cdot 1800 \cdot 0,55 = 1943,4 \text{ kN}$$

$$\text{LM3 } 900 \text{ kN: } R = 1,963 \cdot 900 \cdot 0,7375 = 1303,0 \text{ kN}$$

$$\text{Bločky pod ložisky: } \tau = 0,80 \text{ m}$$

$$G = 25 \cdot 0,5^2 \cdot 0,2 \cdot 8 = 10,0 \text{ kN} \quad \tau = 0,804 \text{ m}$$

### Zatížení stálé stávající (kN, m)

Zatížení	Síla	r	R přední piloty	R zadní piloty
NK	2221,6	1,050	2332,7	-111,1
přechodová deska	127,6	-0,305	-38,9	166,5
závěrná zídka	328,3	-0,100	-32,8	361,1
úložný práh	2344,1	0,000	1172,1	1172,1
stálé			3433,0	

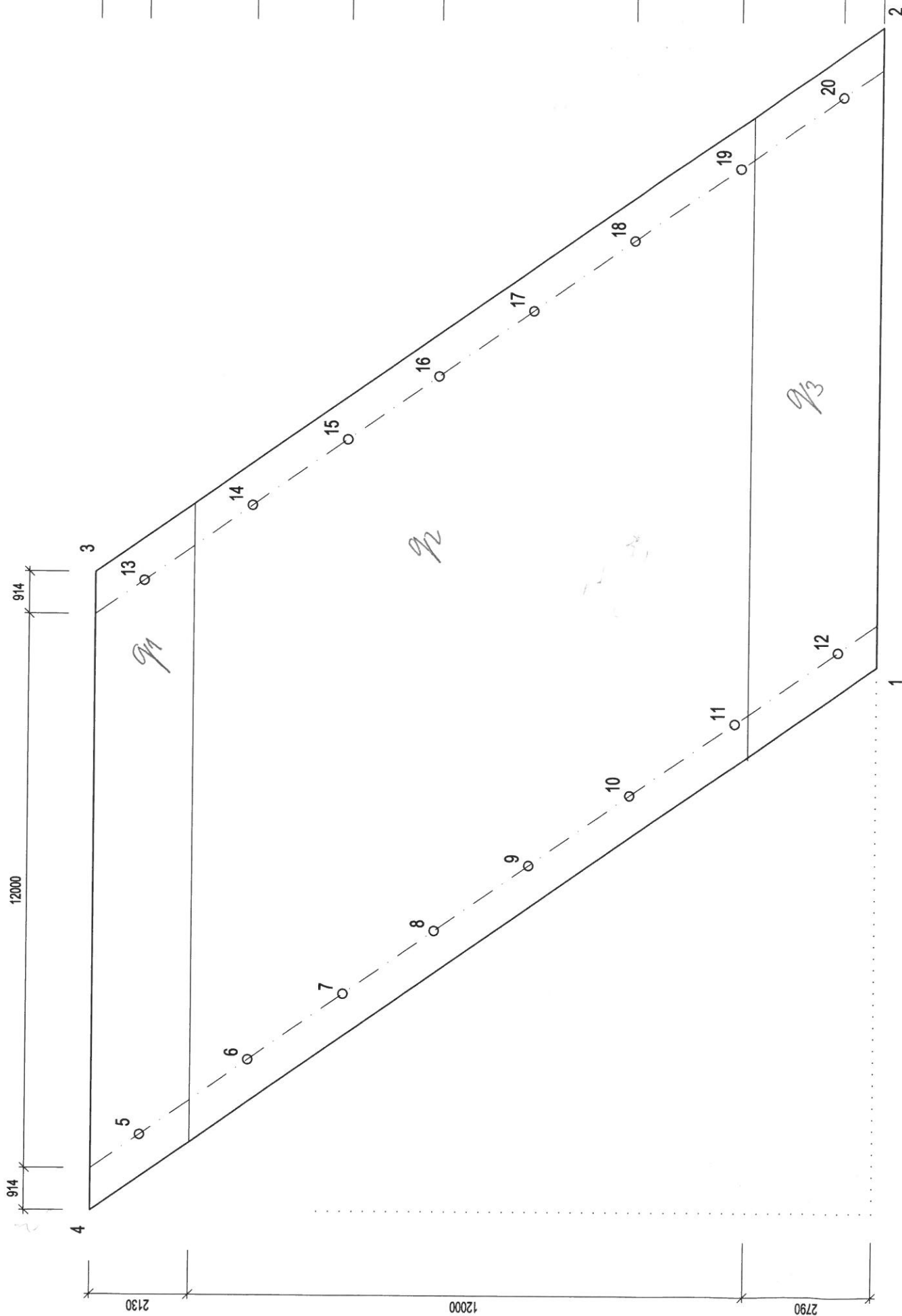
### Zatížení nahodilé původní (kN, m)

nahodilé na vozovce a na chodníku	1778,3	1,050	1867,2	-88,9
<b>stálé + nahodilé</b>			<b>5300,2</b>	

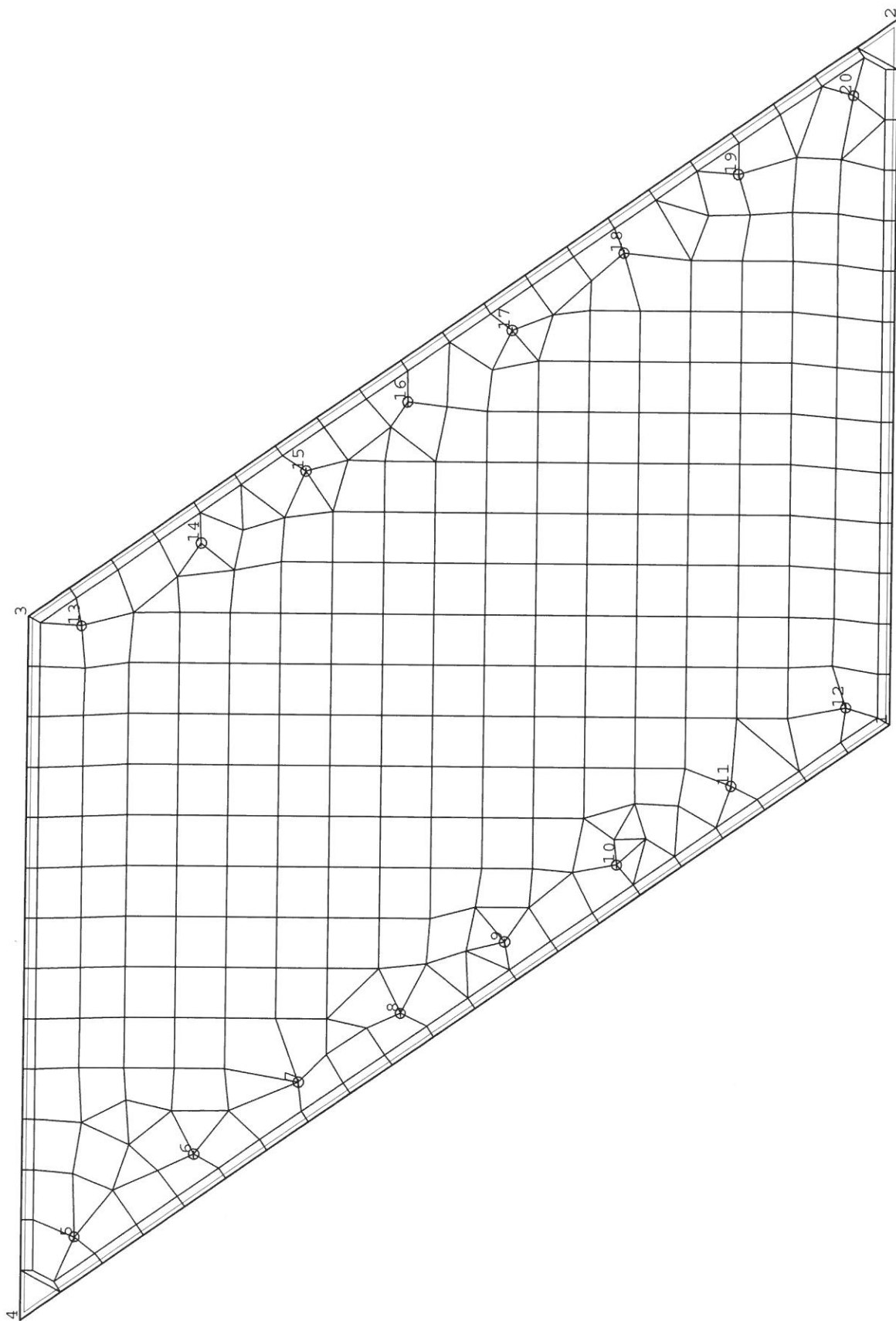
### Zatížení stálé po rekonstrukci (kN, m)

Zatížení	Síla	r	R přední piloty	R zadní piloty	Porov. stáv. stálé, resp. pův. nahodilé (%)
NK	2281,4	0,804	1834,2	447,2	
závěrná zídka	219,8	-0,300	-65,9	285,7	
úložný práh	2145,2	0,000	1072,6	1072,6	
bločky pod ložisky	10,0	0,804	8,0	2,0	
stálé			2848,9		83,0
<b>Zatížení nahodilé současné (kN, m)</b>					
LM1 na vozovce LM4 na chodníku	2218,0	0,804	1783,3	434,7	95,5
<b>stálé + nahodilé</b>			<b>4632,2</b>		<b>87,4</b>

# Deskový model NEXIS pro výpočet reakcí na ložiska



857	2222	2234	2180	2031	1959	2048	2336	1053
-----	------	------	------	------	------	------	------	------



schema



Ostatná stěla:

$$q_1 = 273 \cdot [0,80 + 21 \cdot 0,27 \cdot 25 + 25 \cdot 0,6 \cdot 0,28] = 900 \text{ kN/m}^2$$

$$q_2 = 0,005 \cdot 12 + 0,125 \cdot 24 = 306 \text{ kN/m}^2$$

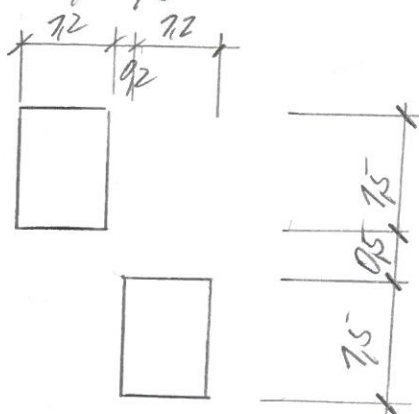
$$q_3 = 279 \cdot [0,80 + 25 \cdot 0,27 \cdot 28 + 25 \cdot 0,187] = 874 \text{ kN/m}^2$$

nahradit na chodníku

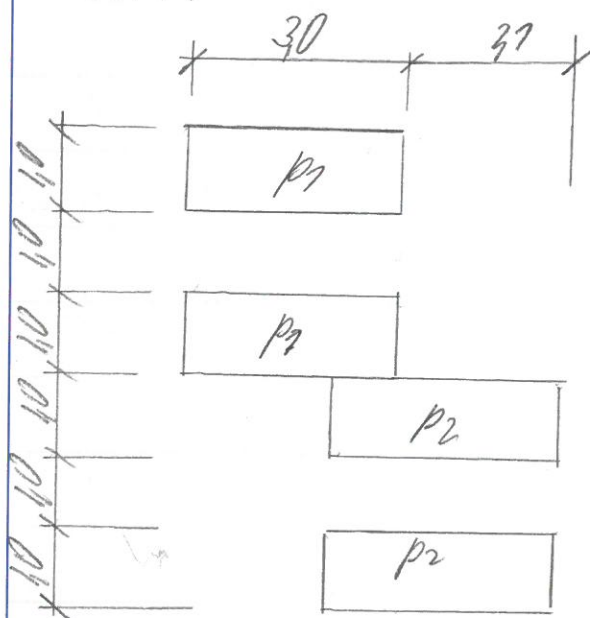
$$p = 500 \text{ kN/m}^2$$

LM2: rozchod 1:1 na výšce 0,40 ÷ 0,45 m

$$p = \frac{200}{22,75} = 11,11 \text{ kN/m}^2 \text{ jen pro zápornou reakci}$$



LM1:



$$p_1 = 100,0 \text{ kN/m}^2$$

$$p_2 = 66,67 \text{ kN/m}^2$$

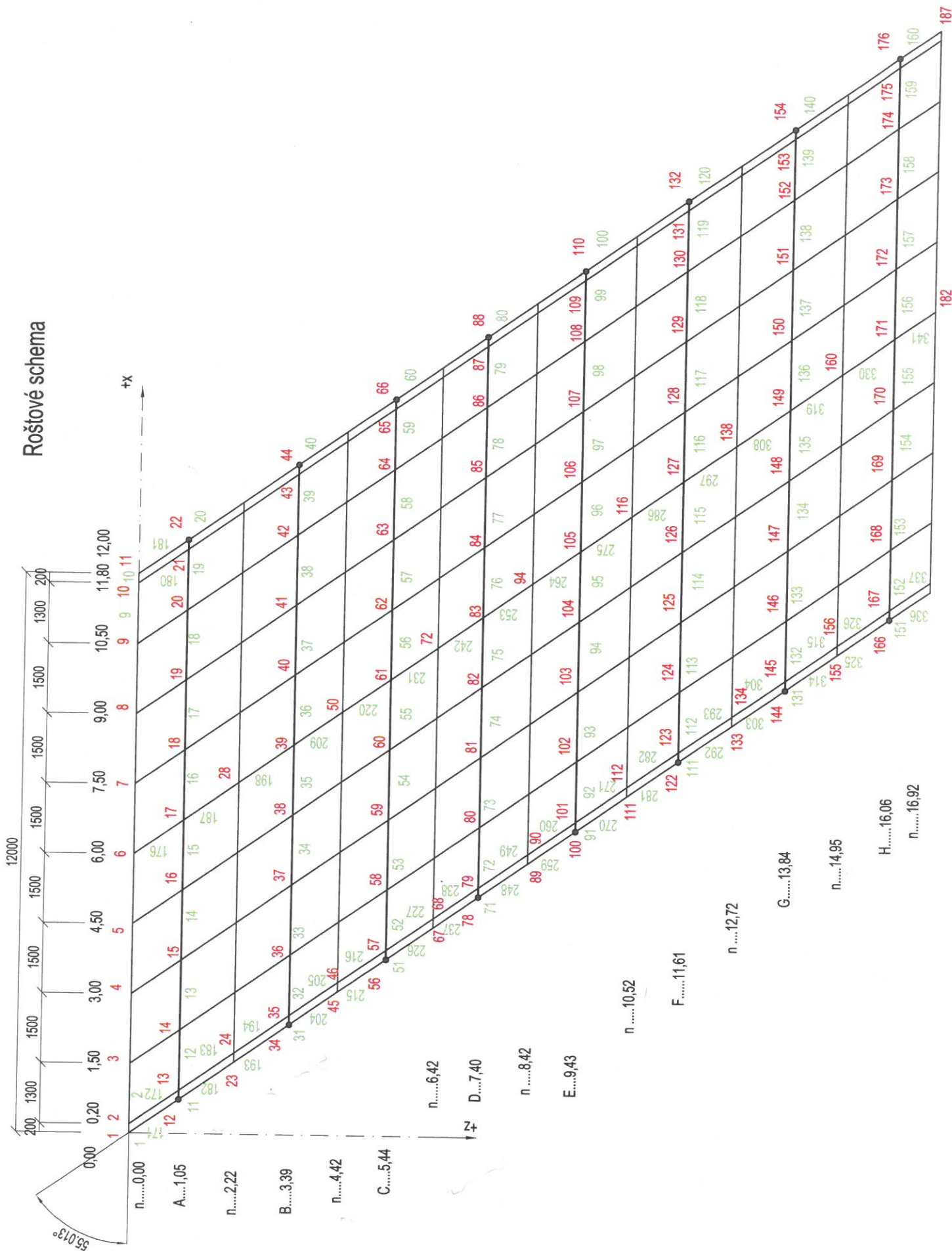
# Reakce na ložiska (kN) maximální

Ložisko	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
vl. tíha	215,9	193,6	202,4	211,6	237,7	235,3	236,3	216,3	215,9	193,6	202,4	211,6	237,7	235,3	236,3	216,3
ost. stálé	82,3	67,6	49,2	40,4	37,9	33,4	41,3	203,1	197,8	29,6	28,7	37,0	46,0	61,4	81,4	73,2
stálé	298,2	261,2	251,6	252,0	275,6	268,7	277,6	419,4	413,7	223,2	231,1	248,6	283,7	296,7	317,7	289,5
chodník	44,6	24,1	8,4	0,9	0,0	0,0	4,3	100,7	86,2	3,0	0,0	0,0	3,6	16,0	37,1	43,1
LM2	108,1	191,9	164,0	161,0	168,0	173,7	151,2	107,0	107,0	151,2	173,7	168,0	161,0	164,0	191,9	108,1
LM1rovň	13,6	67,0	71,5	74,1	80,6	85,0	73,6	78,3	114,7	61,7	76,8	64,6	78,5	78,2	48,6	13,0
LM1voz	80,5	287,4	279,1	272,7	285,8	297,4	284,0	76,6	160,9	299,7	284,3	275,9	295,0	313,2	222,8	78,0
LM1	94,1	354,4	350,6	346,8	366,4	382,4	357,6	154,9	275,6	361,4	361,1	340,5	373,5	391,4	271,4	91,0
LM3 900 kN	92,0	296,9	264,0	258,6	271,9	297,8	290,3	263,0	404,7	260,3	262,8	262,3	273,2	305,5	229,4	93,0
LM3 1800	11,7	287,3	404,0	287,9	273,4	417,9	351,9	310,4	468,3	376,1	283,0	257,8	409,5	408,5	178,6	13,4
nahodilé	152,7	378,5	412,4	347,7	366,4	417,9	361,9	411,1	554,5	379,1	361,1	340,5	413,1	424,5	308,5	136,1
charakteristické	450,9	639,7	664,0	599,7	642,0	686,6	639,5	830,5	968,2	602,3	592,2	589,1	696,8	721,2	626,2	425,6
Návrhové 6.10a	557,2	735,9	757,2	692,2	743,0	785,9	741,2	982,4	1119,9	685,2	677,6	680,4	801,2	830,3	741,3	528,6
Návrhové 6.10b	548,3	810,7	845,4	758,6	810,9	872,6	807,1	1036,2	1223,3	767,9	752,7	744,9	883,2	913,5	781,0	515,9

# Reakce na ložiska (kN) minimální

Ložisko	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
vl. tíha	215,9	193,6	202,4	211,6	237,7	235,3	236,3	216,3	215,9	193,6	202,4	211,6	237,7	235,3	236,3	216,3
ost. stálé	82,3	67,6	49,2	40,4	37,9	33,4	41,3	203,1	197,8	29,6	28,7	37,0	46,0	61,4	81,4	73,2
stálé	298,2	261,2	251,6	252,0	275,6	268,7	277,6	419,4	413,7	223,2	231,1	248,6	283,7	296,7	317,7	289,5
chodník	-0,3	-0,1	-0,1	-0,3	-1,8	-5,7	-0,6	-0,6	-0,8	-6,2	-5,9	-1,7	-0,2	0,0	-0,1	-0,2
LM2	-7,7	-5,3	-4,6	-2,2	-5,0	-4,3	-4,2	-6,2	-6,2	-4,2	-4,3	-5,0	-2,2	-4,6	-5,3	-7,7
LM1rovň	-1,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	-5,0
LM1voz	-10,3	-5,0	-0,4	-0,3	-0,6	-0,3	-5,2	-9,1	-10,0	-5,0	-5,4	-1,4	-0,1	-2,8	-4,2	-13,0
LM1	-11,9	-5,0	-0,4	-0,3	-0,6	-0,3	-5,2	-9,1	-10,0	-5,0	-5,4	-1,4	-0,1	-2,8	-4,2	-18,0
LM3 900 kN	-16,0	-5,0	-3,5	-1,6	0,0	0,0	-2,5	-9,2	-4,9	-1,0	-9,5	-2,8	-4,2	-3,3	-5,2	-15,7
LM3 1800	-11,9	-7,2	-5,5	0,0	0,0	0,0	0,0	-10,4	-7,5	0,0	0,0	0,0	0,0	-4,8	-4,1	-30,6
nahodilé	-16,3	-7,3	-5,6	-2,5	-6,8	-10,0	-5,8	-11,0	-10,8	-11,2	-15,4	-6,7	-4,4	-4,6	-5,3	-30,8
charakteristické	282,2	256,2	248,1	250,4	275,6	268,7	275,1	410,2	408,8	483,5	221,6	245,8	279,5	293,4	312,5	273,8
Návrhové	246,4	225,2	218,9	223,4	238,9	228,3	242,0	362,7	357,8	185,8	187,2	214,7	249,4	260,8	278,8	219,0

Roštové schéma

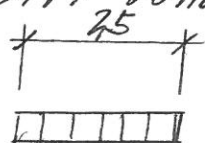


Roznos zatížení: 1:1 na výšku 0,45m

Prátovka:

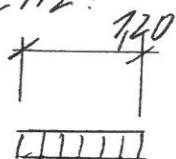
LM1 rovn:  $p = 90 \cdot 30 + 25 \cdot 90 = 495 \text{ kN/m'}$

LM1 vozidlo:



$p = \frac{1800}{25} = 40,00 \text{ kN/m'}$

LM2:



$p = 333,33 \text{ kN/m'}$

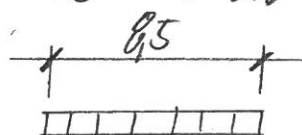
chodník vlevo

$p = 273 \cdot 50 = 10,70 \text{ kN/m'}$

chodník vpravo

$p = 279 \cdot 30 = 14,04 \text{ kN/m'}$

LM3 900 kN



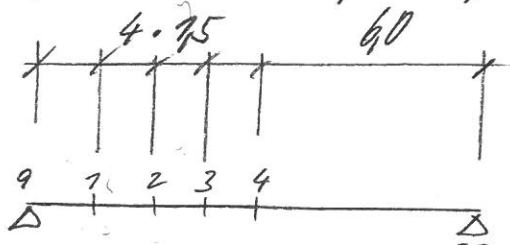
$p = \frac{900 \cdot 125}{8,5} = 132,35 \text{ kN/m'}$

LM3 1800 kN

$p = \frac{1800 \cdot 125}{130} = 173,08 \text{ kN/m'}$

Ostatné stále zatížení

$q = 900 \cdot 273 + 90 \cdot 3,06 + 279 \cdot 874 = 7770 \text{ kN/m'}$



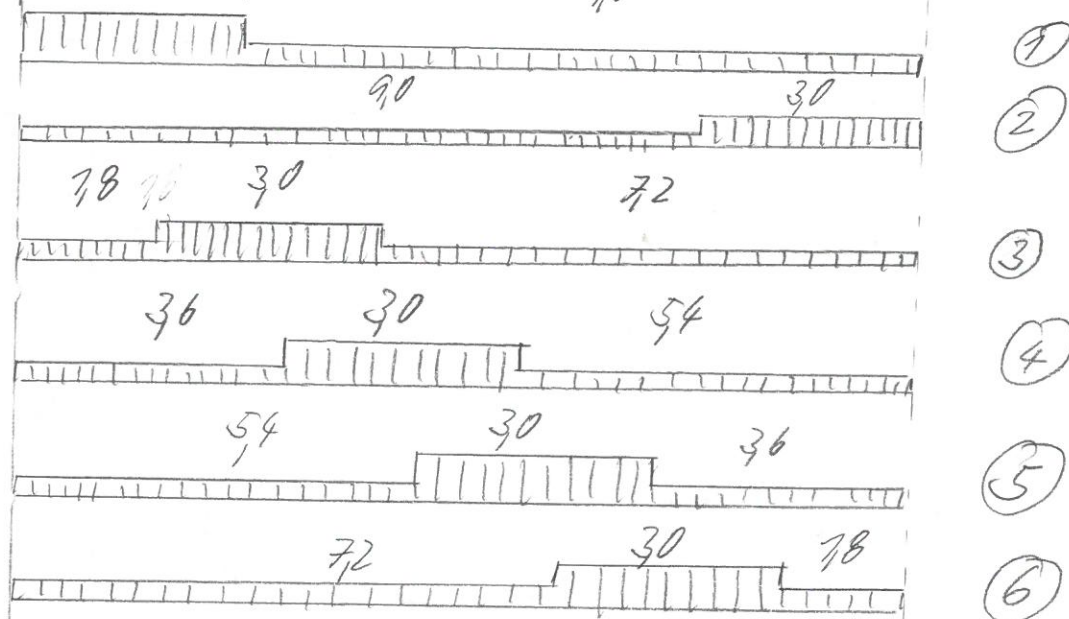
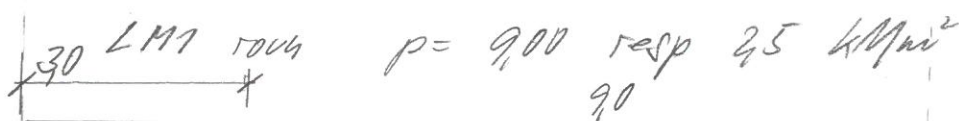
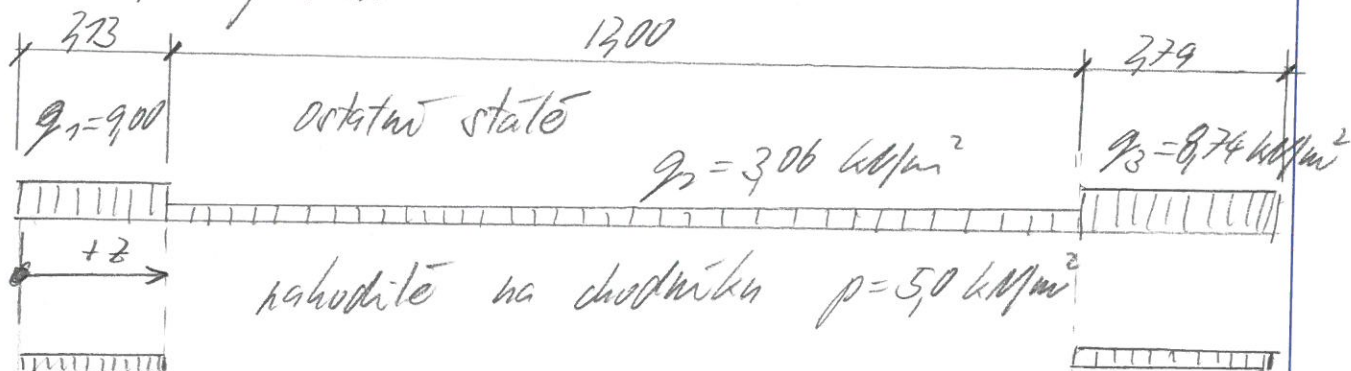
Prostý nosník (kN, kNm)

zatížení	Qa	M1	M2	M3	M4
10,00	60,00	78,75	135,00	168,75	180,00
ost stálé	426,60	559,91	959,85	1199,81	1279,80
chodník vlevo	64,20	84,26	144,45	180,56	192,60
chodník vpravo	84,00	110,25	189,00	236,25	252,00
LM1 rovn	297,00	389,81	668,25	835,31	891,00
LM1 vozidlo	895,83	1175,74	2015,61	2519,51	2735,45
LM1	1192,83	1565,55	2683,86	3354,82	3626,45
LM2	380,00	498,75	855,00	1068,73	1162,48
LM3 900	726,55	953,60	1634,70	2043,41	2195,51
LM3 1800	1038,48	1363,01	2336,58	2920,73	3115,44

nerozhoduje

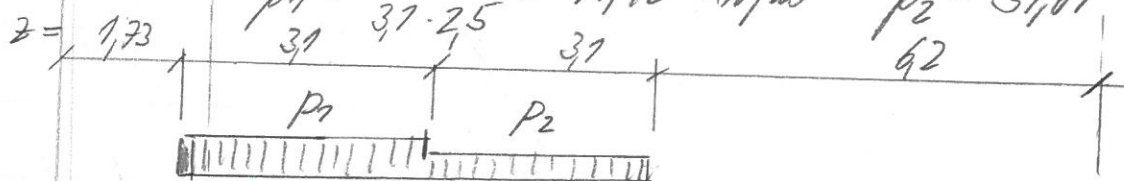


Průchý směr

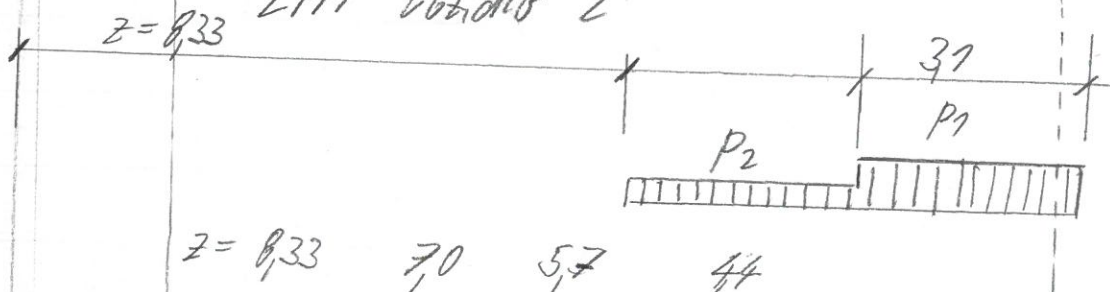


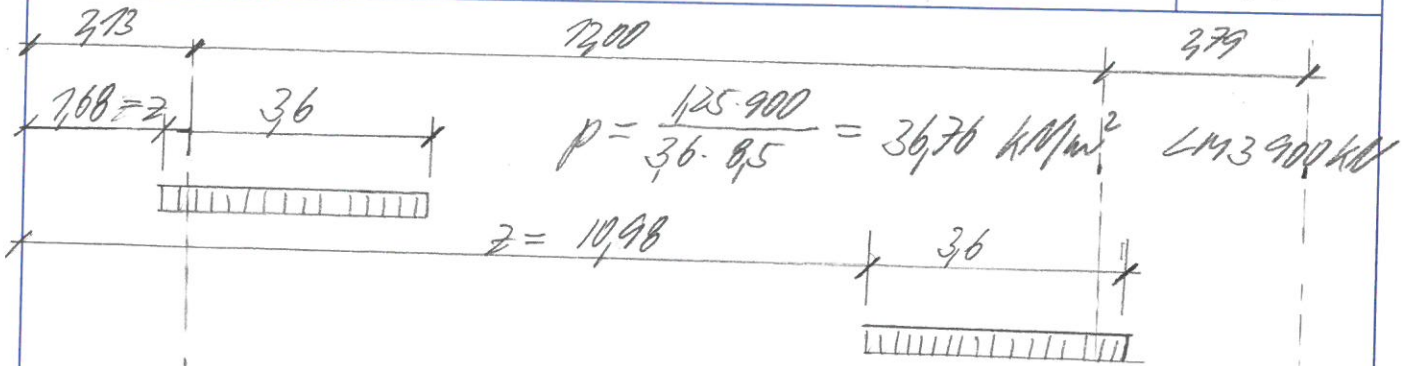
LM7 vozilo 7

$$p_1 = \frac{600,0}{31 \cdot 25} = 77,42 \text{ kN/m}^2 \quad p_2 = 57,67 \text{ kN/m}^2$$

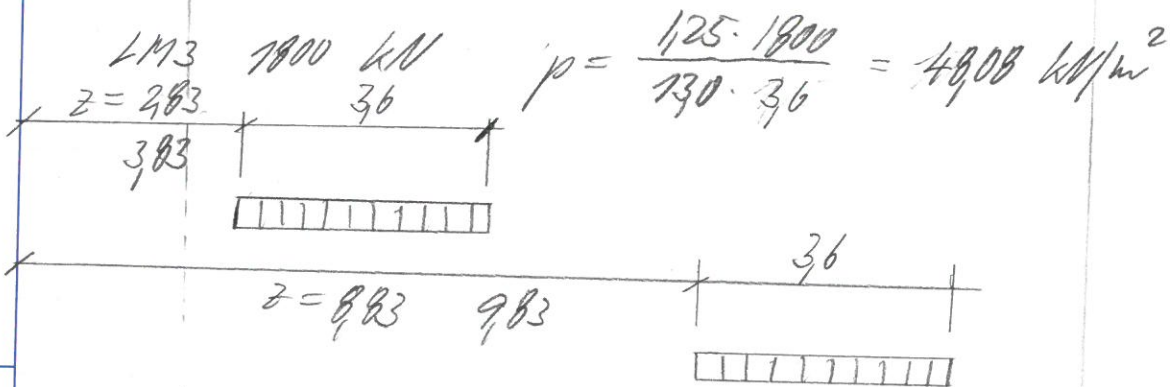

$$z = 1.73 \quad 3.2 \quad 4.8 \quad 6.5$$

LM7 vuoto 2





$z = 1,68$  3,23 4,78 6,33 7,88 9,43 10,98



LM3 900

$$p = \frac{125 \cdot 900}{85 \cdot 36}$$

$$p = 36,77 \text{ kN/m}^2$$

LM3 1800

$$p = \frac{125 \cdot 1800}{130 \cdot 36} = 48,08 \text{ kN/m}^2$$

jede : osy 30m od okraje

Průžek podpěrů:  $k = \frac{70}{0,007} = 10000 \text{ MN/m}$

**Zatížení prostý nosník (kN, m)**

	plocha	g	reakce
pref. A	1,106	31,23	215,90
spára 1	0,198		
pref. B	0,874	28,01	193,64
spára 2	0,225		
pref. C	0,896	29,27	202,35
spára 3	0,253		
pref. D	0,915	30,60	211,56
spára 4	0,292		
pref. E	1,040	34,38	237,65
spára 5	0,295		
pref. F	1,032	34,03	235,26
spára 6	0,281		
pref. G	1,041	34,18	236,28
spára 7	0,288		
pref. H	1,065	31,29	216,31

prefabrikát	b	h	poměr	A	As	k	I <sub>x</sub>	I <sub>y</sub>	I <sub>z</sub>
A	2,330	0,519	4,49	1,209	1,008	0,285	0,03094	0,54708	0,02714
B	2,100	0,516	4,07	1,084	0,903	0,280	0,02693	0,39822	0,02404
C	2,000	0,568	3,52	1,136	0,947	0,270	0,03299	0,37867	0,03054
D	1,920	0,614	3,13	1,179	0,982	0,260	0,03852	0,36215	0,03704
E	2,160	0,622	3,47	1,344	1,120	0,270	0,04678	0,52236	0,04332
F	2,200	0,600	3,67	1,320	1,100	0,275	0,04356	0,53240	0,03960
G	2,260	0,586	3,86	1,324	1,104	0,280	0,04245	0,56369	0,03790
H	1,950	0,627	3,11	1,223	1,019	0,260	0,04166	0,38743	0,04005
nominální				0,0001		0,0001	0,00001	0,00001	0,00001



194

prefak	A	B	C	D	E	F	G	H	celkem
ostatní stálé M4									
ROSPRE	166,52	121,22	122,74	133,06	151,38	147,60	164,83	196,34	
roznos (%)	13,8	10,1	10,2	11,1	12,6	12,3	13,7	16,3	100,0
ost stálé na 1									
nosník (kN/m)	9,84	7,16	7,25	7,86	8,94	8,72	9,74	11,60	71,1
chodník vlevo M4									
ROSPRE	58,03	31,42	20,30	14,44	11,42	7,86	6,15	5,67	
roznos (%)	37,4	20,2	13,1	9,3	7,4	5,1	4,0	3,7	100,0
nahodilé na 1									
nosník (kN/m)	4,00	2,16	1,40	0,99	0,79	0,54	0,42	0,39	10,7
chodník vpravo									
M4 ROSPRE	5,61	6,15	9,49	13,86	21,52	31,59	52,51	76,15	
roznos (%)	2,6	2,8	4,4	6,4	9,9	14,6	24,2	35,1	100,0
nahodilé na 1									
nosník (kN/m)	0,36	0,40	0,61	0,89	1,39	2,04	3,39	4,92	14,0
LM1 rovn 1	106,27	98,17	104,22	107,60	107,60	84,30	65,89	57,04	
roznos (%)	14,5	13,4	14,3	14,7	14,7	11,5	9,0	7,8	100,0
LM1 rovn 3	79,02	88,54	110,37	116,49	117,60	90,50	69,76	49,58	
roznos (%)	10,9	12,3	15,3	16,1	16,3	12,5	9,7	6,9	100,0
LM1 rovn 4	63,86	72,60	105,96	124,51	128,37	99,26	75,32	63,75	
roznos (%)	8,7	9,9	14,4	17,0	17,5	13,5	10,3	8,7	100,0
LM1 rovn 5	56,97	62,24	91,57	123,06	139,13	109,50	83,42	69,14	
roznos (%)	7,8	8,5	12,5	16,7	18,9	14,9	11,3	9,4	100,0
LM1 rovn 6	53,82	54,78	74,76	97,57	128,63	128,27	108,22	95,00	
roznos (%)	7,3	7,4	10,1	13,2	17,4	17,3	14,6	12,8	100,0
LM1 rovn 2	52,18	57,22	80,61	109,72	141,35	121,32	94,87	78,30	
roznos (%)	7,1	7,8	11,0	14,9	19,2	16,5	12,9	10,6	100,0
LM1 voz1 1,73	409,21	434,44	421,63	349,23	250,52	156,93	112,91	97,97	
roznos (%)	18,3	19,5	18,9	15,6	11,2	7,0	5,1	4,4	100,0
LM1 voz1 3,2	237,70	342,33	439,56	425,00	338,07	199,60	138,60	115,60	
roznos (%)	10,6	15,3	19,7	19,0	15,1	8,9	6,2	5,2	100,0
LM1 voz1 4,8	143,28	204,80	391,10	425,00	338,07	199,60	138,60	115,60	
roznos (%)	7,3	10,5	20,0	21,7	17,3	10,2	7,1	5,9	100,0
LM1 voz1 6,5	95,74	125,15	255,76	440,80	514,70	392,14	246,20	185,47	
roznos (%)	4,2	5,5	11,3	19,5	22,8	17,4	10,9	8,2	100,0
LM1 voz2 4,4	138,00	197,07	355,00	465,24	480,20	281,90	184,20	145,10	
roznos (%)	6,1	8,8	15,8	20,7	21,4	12,5	8,2	6,5	100,0
LM1 voz2 5,7	101,00	133,82	272,24	422,10	529,50	385,50	233,00	177,50	
roznos (%)	4,5	5,9	12,1	18,7	23,5	17,1	10,3	7,9	100,0
LM1 voz2 7	80,04	99,90	192,14	355,40	511,70	482,60	313,90	228,20	
roznos (%)	3,5	4,4	8,5	15,7	22,6	21,3	13,9	10,1	100,0
LM1 voz2 8,33	67,50	80,10	143,70	265,30	456,10	512,30	437,60	315,60	
roznos (%)	3,0	3,5	6,3	11,6	20,0	22,5	19,2	13,9	100,0

pro M4 LM3 nerozhoduje

M2

-25-

prefak	A	B	C	D	E	F	G	H	celkem
chodník vlevo M2	34,55	26,28	21,50	16,10	13,00	9,26	7,32	6,07	
ROSPRE									
roznos (%)	25,8	19,6	16,0	12,0	9,7	6,9	5,5	4,5	100,0
nahodilé na 1									
nosník (kN/m)	2,76	2,10	1,72	1,28	1,04	0,74	0,58	0,48	10,7
chodník vpravo									
M2 ROSPRE	4,82	5,11	8,27	12,00	15,92	16,37	22,57	53,07	
roznos (%)	3,5	3,7	6,0	8,7	11,5	11,9	16,3	38,4	100,0
nahodilé na 1									
nosník (kN/m)	0,49	0,52	0,84	1,22	1,61	1,66	2,29	5,38	14,0
LM1 rovn 1	64,65	63,26	72,57	81,14	86,69	72,11	61,39	54,02	
roznos (%)	11,6	11,4	13,1	14,6	15,6	13,0	11,0	9,7	100,0
LM1 rovn 2	36,55	37,16	52,28	67,53	85,54	87,68	82,51	82,57	
roznos (%)	6,9	7,0	9,8	12,7	16,1	16,5	15,5	15,5	100,0
LM1 rovn 3	50,28	53,04	71,57	82,11	92,00	77,28	65,33	56,79	
roznos (%)	9,2	9,7	13,1	15,0	16,8	14,1	11,9	10,4	100,0
LM1 rovn 4	43,49	43,88	65,77	83,17	94,37	82,33	70,26	60,26	
roznos (%)	8,0	8,1	12,1	15,3	17,4	15,1	12,9	11,1	100,0
LM1 rovn 5	40,00	40,16	57,81	79,39	96,44	85,05	75,60	65,02	
roznos (%)	7,4	7,4	10,7	14,7	17,9	15,8	14,0	12,1	100,0
LM1 rovn 6	37,92	38,43	54,14	71,67	94,09	87,71	79,56	72,18	
roznos (%)	7,1	7,2	10,1	13,4	17,6	16,4	14,9	13,5	100,0
LM1 voz1 1,73	265,10	305,20	316,40	276,50	216,60	147,90	112,20	88,20	
roznos (%)	15,3	17,7	18,3	16,0	12,5	8,6	6,5	5,1	100,0
LM1 voz1 3,2	152,40	224,40	307,70	316,60	275,60	180,90	135,05	103,60	
roznos (%)	9,0	13,2	18,1	18,7	16,2	10,7	8,0	6,1	100,0
LM1 voz1 4,8	98,50	125,10	257,50	326,90	340,70	232,12	167,63	125,00	
roznos (%)	5,9	7,5	15,4	19,5	20,4	13,9	10,0	7,5	100,0
LM1 voz1 6,5	72,90	79,40	160,90	294,10	367,80	305,00	316,24	158,00	
roznos (%)	4,2	4,5	9,2	16,8	21,0	17,4	18,0	9,0	100,0
LM1 voz2 4,4	95,90	122,80	231,60	321,50	361,50	237,92	172,30	127,80	
roznos (%)	5,7	7,3	13,9	19,2	21,6	14,2	10,3	7,6	100,0
LM1 voz2 5,7	75,60	85,00	174,20	281,00	377,74	302,60	207,90	152,20	
roznos (%)	4,6	5,1	10,5	17,0	22,8	18,3	12,6	9,2	100,0
LM1 voz2 7	63,30	68,40	125,10	232,40	348,26	354,90	261,00	188,70	
roznos (%)	3,9	4,2	7,6	14,2	21,2	21,6	15,9	11,5	100,0
LM1 voz2 8,33	54,80	59,40	100,50	175,00	300,40	354,90	332,40	251,40	
roznos (%)	3,4	3,6	6,2	10,7	18,4	21,8	20,4	15,4	100,0
LM3 1800 9,83	81,22	85,64	137,20	203,20	314,90	344,50	327,60	326,40	
roznos (%)	4,5	4,7	7,5	11,2	17,3	18,9	18,0	17,9	100,0

pro M2 LM3 nerozhoduje

# Nahodilé zatížení, podélný směr, roznos na nosníky, M (kN, m)

K.....součinitel příčného roznosu

-26-

Nosník A															
nahod na chod L				nahod na chod P			LM1 rovn			LM1 vozidlo			celkem		
	prut	K	deska	prut	K	deska	prut	K	deska	prut	K	deska	char.	častá	
M1	84,3	0,410	34,5	110,3	0,026	2,9	389,8	0,116	45,2	1175,7	0,153	179,9	262,5	168,0	
M2	144,5	0,258	37,3	189,0	0,035	6,6	668,3	0,116	77,5	2015,6	0,153	308,4	429,8	279,9	
M3	180,6	0,316	57,1	236,3	0,031	7,3	835,3	0,131	109,0	2519,5	0,168	423,3	596,7	386,8	
M4	192,6	0,374	72,0	252,0	0,026	6,6	891,0	0,145	129,2	2735,5	0,183	500,6	708,4	458,6	
Nosník B															
nahod na chod L				nahod na chod P			LM1 rovn			LM1 vozidlo			celkem		
	prut	K	deska	prut	K	deska	prut	K	deska	prut	K	deska	char.	častá	
M1	84,3	0,196	16,5	110,3	0,037	4,1	389,8	0,114	44,4	1175,7	0,177	208,1	273,1	182,1	
M2	144,5	0,196	28,3	189,0	0,037	7,0	668,3	0,114	76,2	2015,6	0,177	356,8	468,2	312,2	
M3	180,6	0,200	36,1	236,3	0,032	7,6	835,3	0,124	103,6	2519,5	0,186	468,6	615,9	410,4	
M4	192,6	0,202	38,9	252,0	0,028	7,1	891,0	0,134	119,4	2735,5	0,195	533,4	698,8	466,2	
Nosník C															
nahod na chod L				nahod na chod P			LM1 rovn			LM1 vozidlo			celkem		
	prut	K	deska	prut	K	deska	prut	K	deska	prut	K	deska	char.	častá	
M1	84,3	0,160	13,5	110,3	0,060	6,6	389,8	0,131	51,1	1175,7	0,183	215,2	286,3	189,8	
M2	144,5	0,160	23,1	189,0	0,060	11,3	668,3	0,131	87,5	2015,6	0,183	368,9	490,8	325,4	
M3	180,6	0,146	26,3	236,3	0,052	12,3	835,3	0,142	118,6	2519,5	0,190	478,7	635,9	421,9	
M4	192,6	0,131	25,2	252,0	0,044	11,1	891,0	0,153	136,3	2735,5	0,197	538,9	711,5	473,2	
Nosník D															
nahod na chod L				nahod na chod P			LM1 rovn			LM1 vozidlo			celkem		
	prut	K	deska	prut	K	deska	prut	K	deska	prut	K	deska	char.	častá	
M1	84,3	0,120	10,1	110,3	0,087	9,6	389,8	0,153	59,6	1175,7	0,195	229,3	308,6	203,7	
M2	144,5	0,120	17,3	189,0	0,087	16,4	668,3	0,153	102,2	2015,6	0,195	393,0	529,1	349,2	
M3	180,6	0,107	19,2	236,3	0,076	17,8	835,3	0,162	134,9	2519,5	0,206	519,0	691,0	458,1	
M4	192,6	0,093	17,9	252,0	0,064	16,1	891,0	0,170	151,5	2735,5	0,217	593,6	779,1	519,4	
Nosník E															
nahod na chod L				nahod na chod P			LM1 rovn			LM1 vozidlo			celkem		
	prut	K	deska	prut	K	deska	prut	K	deska	prut	K	deska	char.	častá	
M1	84,3	0,097	8,2	110,3	0,115	12,7	389,8	0,179	69,8	1175,7	0,216	254,0	344,6	226,7	
M2	144,5	0,097	14,0	189,0	0,115	21,7	668,3	0,179	119,6	2015,6	0,216	435,4	590,7	388,7	
M3	180,6	0,086	15,4	236,3	0,107	25,3	835,3	0,184	153,7	2519,5	0,226	568,1	762,6	503,9	
M4	192,6	0,074	14,3	252,0	0,099	24,9	891,0	0,189	168,4	2735,5	0,235	642,8	850,4	565,2	
Nosník F															
nahod na chod L				nahod na chod P			LM1 rovn			LM1 vozidlo			celkem		
	prut	K	deska	prut	K	deska	prut	K	deska	prut	K	deska	char.	častá	
M1	84,3	0,069	5,8	110,3	0,119	13,1	389,8	0,164	63,9	1175,7	0,218	256,3	339,2	225,4	
M2	144,5	0,069	10,0	189,0	0,119	22,5	668,3	0,164	109,6	2015,6	0,218	439,4	581,5	386,4	
M3	180,6	0,060	10,8	236,3	0,133	31,3	835,3	0,169	140,7	2519,5	0,222	558,1	741,0	491,7	
M4	192,6	0,051	9,8	252,0	0,146	36,8	891,0	0,173	154,1	2735,5	0,225	615,5	816,2	541,9	
Nosník G															
nahod na chod L				nahod na chod P			LM1 rovn			LM1 vozidlo			celkem		
	prut	K	deska	prut	K	deska	prut	K	deska	prut	K	deska	char.	častá	
M1	84,3	0,060	5,1	110,3	0,163	18,0	389,8	0,160	62,4	1175,7	0,210	246,9	332,3	219,3	
M2	144,5	0,055	7,9	189,0	0,163	30,8	668,3	0,155	103,6	2015,6	0,204	411,2	553,5	365,3	
M3	180,6	0,048	8,6	236,3	0,203	47,8	835,3	0,151	125,7	2519,5	0,198	498,9	681,0	447,0	
M4	192,6	0,040	7,7	252,0	0,242	61,0	891,0	0,146	130,1	2735,5	0,192	525,2	724,0	473,4	
Nosník H															
nahod na chod L				nahod na chod P			LM1 rovn			LM1 vozidlo			celkem		
	prut	K	deska	prut	K	deska	prut	K	deska	prut	K	deska	char.	častá	
M1	84,3	0,049	4,1	110,3	0,410	45,2	389,8	0,160	62,4	1175,7	0,161	189,3	301,0	186,7	
M2	144,5	0,045	6,5	189,0	0,384	72,6	668,3	0,155	103,6	2015,6	0,154	310,4	493,1	305,9	
M3	180,6	0,041	7,4	236,3	0,368	86,8	835,3	0,142	118,2	2519,5	0,147	369,1	581,5	361,8	
M4	192,6	0,037	7,1	252,0	0,351	88,5	891,0	0,128	114,0	2735,5	0,139	380,2	589,9	369,0	

ULS M4	vl. tíha	spáry	ost stálé	stálé	nahodilé	Med 6.10a	Med 6.10b
deska A	517,61	44,55	177,12	739,28	708,40	1715,28	1804,66
deska B	409,03	95,18	128,88	633,09	698,80	1562,20	1669,85
deska C	419,33	107,55	130,50	657,38	711,50	1607,85	1714,87
deska D	428,22	122,63	141,48	692,33	779,10	1723,48	1846,23
deska E	486,72	132,08	160,92	779,72	850,40	1913,65	2042,76
deska F	482,98	129,60	156,96	769,54	816,20	1865,28	1984,91
deska G	487,19	128,03	175,32	790,53	724,00	1800,27	1884,54
deska H	498,42	64,80	208,80	772,02	589,90	1639,50	1682,26

### prefabrikáty

Prefabrikát	plocha	kubatura	hmotnosť (t)	výška	lzt
A	1,106	14,40	37,44	0,519	0,02573
B	0,874	11,40	29,64	0,516	0,02076 1.
C	0,895	11,50	29,90	0,568	0,02589
D	0,915	11,76	30,57	0,614	0,03139
E	1,040	13,36	34,75	0,622	0,03620 2
F	1,032	13,26	34,48	0,600	0,03339
G	1,039	13,35	34,71	0,586	0,03170
H	1,064	13,67	35,55	0,627	0,03630

### Příčná výztuž

Bude uložena kolmo na podélnou výztuž

#### Mpřič

	uzel 28	uzel 50	uzel 83	nad podporou
tl. dobet.spár	0,370	0,420	0,460	0,37
vl. tíha				33,5
ost. stálé	3,0	-5,7	-8,2	12,7
nah chod	1,0	-5,5	-5,0	6,9
LM1 rovn	9,5	12,4	-8,0	15,6
LM1 voz	64,5	69,4	-30,0	25,5
LM3 900	64,0	58,0	-63,0	59,2
LM31800	27,0	79,5	-80,0	90,9
nahodilé	75,0	79,5	-85,0	97,8
charakter.	78,0	73,8	-93,2	144,0
Návrh 6.10b	104,7	103,0	-124,2	185,0

### Q (kN)

Prefabrikát	A	B	C	D	E	F	G	H
g	31,23	28,01	29,27	30,60	34,38	34,03	34,18	31,29
vl. tíha	187,38	168,06	175,62	183,60	206,28	204,18	205,08	187,74
ostatní stálé	128,30	25,70	35,40	34,20	37,00	35,70	44,00	127,50
stálé	315,68	193,76	211,02	217,80	243,28	239,88	249,08	315,24
nahod chod L	63,70	5,00	1,60	0,90	0,00	0,00	0,00	0,00
nahod chod P	0,00	0,00	0,00	0,00	0,00	0,50	8,00	73,00
LM1 rov	53,90	74,20	78,20	79,60	86,90	85,90	78,30	25,20
LM1 voz	144,00	238,90	310,50	299,70	331,80	349,50	318,80	36,60
LM1	197,90	313,10	388,70	379,30	418,70	435,40	397,10	61,80
LM11800	186,10	387,50	410,90	205,00	273,20	448,30	360,60	84,70
LM1900	270,30	270,00	279,40	300,90	306,70	315,70	317,50	153,00
nahodilé	334,00	392,50	412,50	380,20	418,70	448,80	405,10	226,00
Qd 6.10.a	764,34	658,98	702,53	678,98	752,36	778,25	746,42	654,40
Qd 6.10.b	813,14	752,21	799,02	763,20	844,41	881,14	832,70	666,84
Qd 6.10.b jen prefak	215,02	192,85	201,52	210,68	236,71	234,30	235,33	215,43
Qd 6.10.b celá deska	598,12	559,37	597,50	552,51	607,70	646,85	597,38	451,41

\*\*\*\*\*  
 Pontex s.r.o.  
 BETON ver.2.1 : Napeti zelezobetonoveho prurezu Str.: 28  
 \*\*\*\*\*  
 Prurez : pricna vyztuz  
 File : B2-PRIC .INP  
 \*\*\*\*\*

B E T O N - zakladni cast KBT = 0.00 [MPa]  
 ZB BB  
 [m] [m]  
 0.3700 1.0000  
 0.0000 1.0000

V Y Z T U Z - vrstvy NVP = 15.000  
 ZV NV DV1  
 [m] [ks] [mm]  
 0.3090 5.600 20.0  
 0.0610 5.600 20.0

S I L O V E Z A T I Z E N I  
 Zat.stav 1  
 Oh.moment 0.1440  
 Norm.sila 0.0000  
 Poloha N 0.0000  
 Pos.sila 0.0000

*pruh železobetonu 20m  
 nad ložisky: ØR20/180  
 železobeton ØR20/200*

\*\*\* \*\* V Y S L E D K Y \*\*\* \*\*

B E T O N  
 Z N A P E T I  
 1  
 0.3700 -9.1248  
 0.0000 0.0000

V Y Z T U Z  
 Z N A P E T I  
 1  
 0.3090 -50.4407  
 0.0610 300.9528

P R U R E Z O V E K O N S T A N T Y  
 1  
 Fid 0.149378  
 Jid 0.00152445  
 ZT id.pr. 0.2734  
 Neutr.o. 0.2734

----- Plny prurez -----  
 Fid = 0.422779 Jid = 0.00503261 ZTid.pr. = 0.1850  
 \*\*\*\*\*

#### Ohyb 1. MS příčná výztuž nad ložisky

tažená výztuž	1744,0	x	55,7
d	309,0	ksí	0,18
šířka	1000,0	rameno	281,1
Rad	434,7	Md (kNm)	185,0
Rbd	17,0		
vyztužení (%)	0,56	Mrd (kNm)	213,1
			využití (%) 86,8

Kolin, rozpětí 12.0 m, nosník A

[illegible]

-30-

## ZATEZOVACI STAV:

## POCATECNI CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast	Sprazena cast		
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1886	-.0900	-4.9523	-.1733	.001094	-3.6110	-5.4255		
2	.420 L	1.1133	-.1659	-4.9523	-.1849		-2.8419	-6.1883		
3	.420 P	1.1133	-.1659	-4.9523	-.0076	.000000	-2.8419	-6.1883		
1002	1.700 L	1.0892	-.1919	-4.9521	-.0156		-2.5769	-6.4565		
1003	1.700 P	1.6398	-.2901	-7.4550	-.1338		-3.9000	-9.7658		
1004	1.920 O	1.6112	-.3190	-7.4530	-.1225		-3.6050	-10.0583		
1006	3.420 O	1.4824	-.4481	-7.4393	-.0460		-2.2753	-11.3758		
1008	4.920 O	1.4685	-.4599	-7.4255	.0291		-2.1375	-11.4954		
4	6.420 L	1.4964	-.4304	-7.4193	.0000		-2.4314	-11.1899		
5	6.420 P	1.4964	-.4304	-7.4193	.0000	-.008768	-2.4314	-11.1899		
1014	11.140 L	1.6315	-.2847	-7.4023	.1321		-3.9064	-9.6629		
1015	11.140 P	1.0809	-.1866	-4.8996	.0140		-2.5835	-6.3542		
6	12.420 L	1.0993	-.1633	-4.8881	.0042		-2.8096	-6.1035		
7	12.420 P	1.0993	-.1633	-4.8881	.1816	.000000	-2.8096	-6.1035		
8	12.840 L	1.1726	-.0888	-4.8860	.1699		-3.5626	-5.3528		

Etapa 1: NOSNIK T= 14.00 Zat. stav ZTR 3-SK - SMRSTENI A DOTVAROVANI byl zapocten do vysledku

VÝPOČTOVÁ ETAPA ČÍSLO	1: NOSNÍK	Začátek etapy T=	14.00
		Konec etapy T=	17.51

## ZATEZOVACI STAV:

## KONECNY CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1673	-.0865	-4.8637	-.1702	.001154	-3.5477	-5.3303		
2	.420 L	1.0933	-.1596	-4.8633	-.1818		-2.7915	-6.0800		
3	.420 P	1.0933	-.1596	-4.8633	-.0045	.000000	-2.7915	-6.0800		
1002	1.700 L	1.0728	-.1774	-4.8624	-.0129		-2.5649	-6.3093		
1003	1.700 P	1.6115	-.2665	-7.3100	-.1286		-3.8618	-9.5479		
1004	1.920 0	1.5839	-.2925	-7.3077	-.1177		-3.5777	-9.8292		
1006	3.420 0	1.4604	-.4072	-7.2921	-.0434		-2.3032	-11.0902		
1008	4.920 0	1.4487	-.4138	-7.2788	.0293		-2.1859	-11.1910		
4	6.420 L	1.4768	-.3843	-7.2737	.0000		-2.4799	-10.8873		
5	6.420 P	1.4768	-.3843	-7.2737	.0000	-.009231	-2.4799	-10.8873		
1014	11.140 L	1.6042	-.2617	-7.2627	.1271		-3.8687	-9.4540		
1015	11.140 P	1.0655	-.1725	-4.8152	.0115		-2.5720	-6.2160		
6	12.420 L	1.0807	-.1573	-4.8056	.0013		-2.7628	-6.0032		
7	12.420 P	1.0807	-.1573	-4.8056	.1787	.000000	-2.7628	-6.0032		
8	12.840 L	1.1530	-.0855	-4.8040	.1670		-3.5041	-5.2649		

VÝPOČTOVÁ ETAPA ČÍSLO	9:	Zacátek etapy T=	61.00
		Konec etapy T=	61.54

ZATEZOVACI STAV:

## KONECNY CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast	Sprazena cast		
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1352	-1.1016	-4.7300	-1.1656	.001562	-3.4740	-5.1919	.1450	.1505
2	.420 L	1.0625	-1.1729	-4.7279	-1.1781		-2.7344	-5.9219	.1468	.1492
3	.420 P	1.0625	-1.1729	-4.7279	.0150	.000000	-2.7344	-5.9219	.1468	.1492
1002	1.700 L	1.0640	-1.1680	-4.7228	.0028		-2.7363	-5.9196	.1466	.1494
1003	1.700 P	1.5780	-.2602	-7.0530	-1.1079		-3.9845	-9.0004	.1432	.1421
1004	1.920 0	1.5543	-.2817	-7.0478	-.0980		-3.7445	-9.2339	.1437	.1418
1006	3.420 0	1.4518	-.3713	-7.0149	-.0313		-2.7101	-10.2324	.1459	.1404
1008	4.920 0	1.4517	-.3652	-6.9973	.0335		-2.7158	-10.2072	.1458	.1405
4	6.420 L	1.4831	-.3333	-6.9953	.0000		-3.0374	-9.8820	.1449	.1411
5	6.420 P	1.4831	-.3333	-6.9953	.0000	-.012355	-3.0374	-9.8820	.1449	.1411
1014	11.140 L	1.5714	-.2556	-7.0099	.1066		-3.9917	-8.9136	.1432	.1423
1015	11.140 P	1.0574	-.1633	-4.6794	-.0041		-2.7435	-5.8329	.1466	.1496
6	12.420 L	1.0510	-.1706	-4.6746	-.0179		-2.7081	-5.8507	.1469	.1494
7	12.420 P	1.0510	-.1706	-4.6746	.1752	.000000	-2.7081	-5.8507	.1469	.1494
8	12.840 L	1.1220	-.1004	-4.6750	.1625		-3.4337	-5.1313	.1451	.1506



20: OST.ST	Zacatek etapy T=	90.00
	Konec etapy T=	97.32

## ZATEZOVACI STAV: POCATECNI CELKOVY SOUCET

Staniceni						Zakladni cast		Sprazena cast		
	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni	
1	.000 P	1.1269	-1.1008	-4.6954	-1.643	.001359	-3.5145	-5.1647	.6137	.5092
2	.420 L	1.0537	-.1725	-4.6926	-.1810		-2.7766	-5.8951	.6810	.4625
3	.420 P	1.0537	-.1725	-4.6926	.0750	.000000	-2.7766	-5.8951	.6810	.4625
1002	1.700 L	1.1238	-.0987	-4.6866	.0501		-3.4378	-5.2250	.2391	.7736
1003	1.700 P	1.6310	-.1893	-6.9845	-.0592		-4.6521	-8.2535	.1225	.5252
1004	1.920 0	1.6176	-.2003	-6.9785	-.0516		-4.5138	-8.3847	.0767	.5578
1006	3.420 0	1.5722	-.2316	-6.9407	-.0006		-4.0386	-8.8220	-.2015	.7545
1008	4.920 0	1.6061	-.1914	-6.9222	.0483		-4.3687	-8.4728	-.4192	.9063
4	6.420 L	1.6486	-.1485	-6.9211	.0000		-4.7932	-8.0453	-.5179	.9747
5	6.420 P	1.6486	-.1485	-6.9211	.0000	-.010383	-4.7932	-8.0453	-.5179	.9747
1014	11.140 L	1.6246	-.1847	-6.9420	.0579		-4.6595	-8.1682	.1222	.5315
1015	11.140 P	1.1172	-.0941	-4.6438	-.0514		-3.4451	-5.1395	.2388	.7800
6	12.420 L	1.0423	-.1702	-4.6400	-.0779		-2.7511	-5.8248	.6834	.4683
7	12.420 P	1.0423	-.1702	-4.6400	.1781	.000000	-2.7511	-5.8248	.6834	.4683
8	12.840 L	1.1138	-.0997	-4.6410	.1614		-3.4753	-5.1050	.6173	.5144

VÝPOČTOVÁ ETAPA ČÍSLO	20:	OB100D	Zacátek etapy T=	90.00
			Konec etapy T=	97.32

ZATEZOVACI STAV: char      KRA TKODOBE MEZISOU CET

						Zakladni cast		Sprazena cast	
Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2244	.2244	.0000	.0000	-2.1527	2.1752	-1.4476	1.0161
1003	1.700 P	.2244	.2244	.0000	.0000	-2.1537	2.1725	-1.4485	1.0143
1004	1.920 0	.2630	.2630	.0000	.0000	-2.5233	2.5429	-1.6971	1.1869
1006	3.420 0	.4300	.4300	.0000	.0000	-4.1153	4.1277	-2.7687	1.9238
1008	4.920 0	.5970	.5970	.0000	.0000	-5.7051	5.7122	-3.8388	2.6608
4	6.420 L	.7080	.7080	.0000	.0000	-6.7656	6.7737	-4.5524	3.1553
5	6.420 P	.7080	.7080	.0000	.0000	-6.7656	6.7737	-4.5524	3.1553
1014	11.140 L	.1510	.1510	.0000	.0000	-1.4495	1.4621	-.9748	.6827
1015	11.140 P	.1510	.1510	.0000	.0000	-1.4488	1.4640	-.9743	.6832

VÝPOČTOVÁ ETAPA ČÍSLO	20:	OB100D	Zacátek etapy T=	90.00
			Konec etapy T=	97.32

## ZATEZOVACI STAV: char      KRATKODOBE + CELK.SOU CET

Staniceni						Zakladni cast		Sprazena cast		
		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1269	-1.1008	-4.6954	-.1643	.000000	-3.5145	-5.1647	.6137	.5092
2	.420 L	1.0537	-.1725	-4.6926	-.1810		-2.7766	-5.8951	.6810	.4625
3	.420 P	1.0537	-.1725	-4.6926	.0750	.000000	-2.7766	-5.8951	.6810	.4625
1002	1.700 L	1.3482	.1257	-4.6866	.0501		-5.5905	-3.0498	-1.2085	1.7898
1003	1.700 P	1.8554	.0351	-6.9845	-.0592		-6.8058	-6.0811	-1.3259	1.5395
1004	1.920 0	1.8806	.0627	-6.9785	-.0516		-7.0371	-5.8419	-1.6204	1.7448
1006	3.420 0	2.0022	.1984	-6.9407	-.0006		-8.1538	-4.6944	-2.9703	2.6783
1008	4.920 0	2.2031	.4056	-6.9222	.0483		-10.0739	-2.7607	-4.2580	3.5672
4	6.420 L	2.3566	.5595	-6.9211	.0000		-11.5588	-1.2716	-5.0703	4.1300
5	6.420 P	2.3566	.5595	-6.9211	.0000	.000000	-11.5588	-1.2716	-5.0703	4.1300
1014	11.140 L	1.7756	-.0337	-6.9420	.0579		-6.1089	-6.7060	-.8527	1.2142
1015	11.140 P	1.2683	.0569	-4.6438	-.0514		-4.8939	-3.6756	-.7355	1.4639
6	12.420 L	1.0423	-.1702	-4.6400	-.0779		-2.7511	-5.8248	.6834	.4683
7	12.420 P	1.0423	-.1702	-4.6400	.1781	.000000	-2.7511	-5.8248	.6834	.4683
8	12.840 L	1.1138	-.0997	-4.6410	.1614		-3.4753	-5.1050	.6173	.5144

VIPOCTOVA ETAPA CISLO	20:	OB100D	Zacatek etapy T=	90.00
			Konec etapy T=	97.32

ZATEZOVACI STAV: cast      KRA TKODOBE MEZISOU CET

						Zakladni cast		Sprazena cast	
Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1434	.1434	.0000	.0000	-1.3751	1.3895	-.9247	.6491
1003	1.700 P	.1434	.1434	.0000	.0000	-1.3758	1.3877	-.9253	.6479
1004	1.920 0	.1680	.1680	.0000	.0000	-1.6118	1.6243	-1.0841	.7582
1006	3.420 0	.2800	.2800	.0000	.0000	-2.6797	2.6878	-1.8029	1.2527
1008	4.920 0	.3840	.3840	.0000	.0000	-3.6696	3.6742	-2.4692	1.7115
4	6.420 L	.4590	.4590	.0000	.0000	-4.3862	4.3914	-2.9513	2.0456
5	6.420 P	.4590	.4590	.0000	.0000	-4.3862	4.3914	-2.9513	2.0456
1014	11.140 L	.0979	.0979	.0000	.0000	-.9397	.9479	-.6320	.4426
1015	11.140 P	.0979	.0979	.0000	.0000	-.9393	.9491	-.6316	.4432

## ZATEZOVACI STAV: cast      KRATKODOBE + CELK.SOU CET

Staniceneni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1269	-.1008	-4.6954	-.1643	.000000	-3.5145	-5.1647	.6137	.5092
2	.420 L	1.0537	-.1725	-4.6926	-.1810		-2.7766	-5.8951	.6810	.4625
3	.420 P	1.0537	-.1725	-4.6926	.0750	.000000	-2.7766	-5.8951	.6810	.4625
1002	1.700 L	1.2671	.0446	-4.6866	.0501		-4.8129	-3.8355	-.6856	1.4227
1003	1.700 P	1.7744	-.0460	-6.9845	-.0592		-6.0278	-6.8658	-.8027	1.1731
1004	1.920 0	1.7856	-.0323	-6.9785	-.0516		-6.1256	-6.7604	-1.0074	1.3160
1006	3.420 0	1.8522	.0484	-6.9407	-.0006		-6.7183	-6.1343	-2.0044	2.0072
1008	4.920 0	1.9901	.1926	-6.9222	.0483		-8.0384	-4.7987	-2.8883	2.6178
4	6.420 L	2.1076	.3105	-6.9211	.0000		-9.1794	-3.6539	-3.4692	3.0203
5	6.420 P	2.1076	.3105	-6.9211	.0000	.000000	-9.1794	-3.6539	-3.4692	3.0203
1014	11.140 L	1.7225	-.0868	-6.9420	.0579		-5.5991	-7.2202	-.5098	.9741
1015	11.140 P	1.2152	.0038	-4.6438	-.0514		-4.3844	-4.1905	-.3929	1.2233
6	12.420 L	1.0423	-.1702	-4.6400	-.0779		-2.7511	-5.8248	.6834	.4683
7	12.420 P	1.0423	-.1702	-4.6400	.1781	.000000	-2.7511	-5.8248	.6834	.4683
8	12.840 L	1.1138	-.0997	-4.6410	.1614		-3.4753	-5.1050	.6173	.5148

KONECNY CELKOVY SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.0130	-.0907	-4.2207	-.1477	.001912	-2.8870	-4.5719	-1.1853	-1.8970
2	.420 L	.9457	-.1553	-4.2130	-.1642		-2.2379	-5.2169	-.8732	-2.1115
3	.420 P	.9457	-.1553	-4.2130	.0918	.000000	-2.2379	-5.2169	-.8732	-2.1115
1002	1.700 L	1.0361	-.0609	-4.2055	.0643		-3.1012	-4.3437	-1.3865	-1.7507
1003	1.700 P	1.4674	-.1343	-6.1456	-.0294		-4.0776	-6.8617	-1.9425	-2.9240
1004	1.920 0	1.4597	-.1388	-6.1363	-.0237		-4.0079	-6.9235	-1.9252	-2.9320
1006	3.420 0	1.4440	-.1370	-6.0833	.0143		-3.8764	-7.0145	-1.9517	-2.8938
1008	4.920 0	1.4912	-.0858	-6.0732	.0497		-4.3198	-6.5696	-2.2156	-2.7129
4	6.420 L	1.5356	-.0442	-6.0843	.0000		-4.7325	-6.1694	-2.4292	-2.5733
5	6.420 P	1.5356	-.0442	-6.0843	.0000	-.013945	-4.7325	-6.1694	-2.4292	-2.5733
1014	11.140 L	1.4645	-.1314	-6.1232	.0288		-4.0865	-6.8108	-1.9462	-2.9068
1015	11.140 P	1.0330	-.0579	-4.1819	-.0650		-3.1100	-4.2917	-1.3900	-1.7329
6	12.420 L	.9394	-.1538	-4.1834	-.0938		-2.2257	-5.1757	-.8680	-2.0961
7	12.420 P	.9394	-.1538	-4.1834	.1622	.000000	-2.2257	-5.1757	-.8680	-2.0961
8	12.840 L	1.0056	-.0900	-4.1901	.1457		-2.8657	-4.5380	-1.1762	-1.8833

VÝPOČTOVÁ ETAPA ČÍSLO 41: OB1001   Zacátek etapy T= 36500.00  
Konec etapy     T= 36500.00

KRAKODOBE MEZISOU CET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2244	.2244	.0000	.0000		-2.1527	2.1752	-1.4476	1.0161
1003	1.700 P	.2244	.2244	.0000	.0000		-2.1537	2.1725	-1.4485	1.0143
1004	1.920 0	.2630	.2630	.0000	.0000		-2.5233	2.5429	-1.6971	1.1869
1006	3.420 0	.4300	.4300	.0000	.0000		-4.1153	4.1277	-2.7687	1.9238
1008	4.920 0	.5970	.5970	.0000	.0000		-5.7051	5.7122	-3.8388	2.6608
4	6.420 L	.7080	.7080	.0000	.0000		-6.7656	6.7737	-4.5524	3.1553
5	6.420 P	.7080	.7080	.0000	.0000	.000000	-6.7656	6.7737	-4.5524	3.1553
1014	11.140 L	.1510	.1510	.0000	.0000		-1.4495	1.4621	- .9748	.6827
1015	11.140 P	.1510	.1510	.0000	.0000		-1.4488	1.4640	- .9743	.6833

KRATKODOBE + CELK. SOUCET

Staniceni						Zakladni cast		Sprazena cast		
		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.0130	-.0907	-4.2207	-.1477	.000000	-2.8870	-4.5719	-1.1853	-1.8970
2	.420 L	.9457	-.1553	-4.2130	-.1642		-2.2379	-5.2169	-.8732	-2.1115
3	.420 P	.9457	-.1553	-4.2130	.0918	.000000	-2.2379	-5.2169	-.8732	-2.1115
1002	1.700 L	1.2605	.1636	-4.2055	.0643		-5.2539	-2.1685	-2.8341	-.7346
1003	1.700 P	1.6918	.0901	-6.1456	-.0294		-6.2313	-4.6893	-3.3909	-1.9097
1004	1.920 O	1.7227	.1242	-6.1363	-.0237		-6.5312	-4.3806	-3.6224	-1.7450
1006	3.420 O	1.8740	.2930	-6.0833	.0143		-7.9917	-2.8868	-4.7204	-.9700
1008	4.920 O	2.0882	.5112	-6.0732	.0497		-10.0249	-.8574	-6.0544	-.0521
4	6.420 L	2.2436	.6638	-6.0843	.0000		-11.4982	.6043	-6.9816	.5820
5	6.420 P	2.2436	.6638	-6.0843	.0000	.000000	-11.4982	.6043	-6.9816	.5820
1014	11.140 L	1.6155	.0196	-6.1232	.0288		-5.5359	-5.3486	-2.9210	-2.2241
1015	11.140 P	1.1840	.0932	-4.1819	-.0650		-4.5588	-2.8278	-2.3643	-1.0490
6	12.420 L	.9394	-.1538	-4.1834	-.0938		-2.2257	-5.1757	-.8680	-2.0961
7	12.420 P	.9394	-.1538	-4.1834	.1622	.000000	-2.2257	-5.1757	-.8680	-2.0961
8	12.840 L	1.0056	-.0900	-4.1901	.1457		-2.8657	-4.5380	-1.1762	-1.8833

VÝPOČTOVÁ ETAPA ČÍSLO 41: OB1001   Zacátek etapy T= 36500.00  
Konec etapy    T= 36500.00

KRAKODOBE MEZISOU CET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast Nap.horni	Sprazena cast Nap.horni
1002	1.700 L	.1434	.1434	.0000		-1.3751	1.3895
1003	1.700 P	.1434	.1434	.0000		-1.3758	1.3877
1004	1.920 0	.1680	.1680	.0000		-1.6118	1.6243
1006	3.420 0	.2800	.2800	.0000		-2.6797	2.6878
1008	4.920 0	.3840	.3840	.0000		-3.6696	3.6742
4	6.420 L	.4590	.4590	.0000		-4.3862	4.3914
5	6.420 P	.4590	.4590	.0000		-4.3862	4.3914
1014	11.140 L	.0979	.0979	.0000	.000000	-.9397	.9479
1015	11.140 P	.0979	.0979	.0000		-.9393	.9491

KRATKODOBE + CELK.SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.0130	-.0907	-4.2207	-.1477	.000000	-2.8870	-4.5719	-1.1853	-1.8970
2	.420 L	.9457	-.1553	-4.2130	-.1642		-2.2379	-5.2169	-.8732	-2.1115
3	.420 P	.9457	-.1553	-4.2130	.0918	.000000	-2.2379	-5.2169	-.8732	-2.1115
1002	1.700 L	1.1795	.0825	-4.2055	.0643		-4.4763	-2.9542	-2.3112	-1.1016
1003	1.700 P	1.6107	.0090	-6.1456	-.0294		-5.4534	-5.4740	-2.8677	-2.2761
1004	1.920 0	1.6277	.0292	-6.1363	-.0237		-5.6197	-5.2992	-3.0093	-2.1738
1006	3.420 0	1.7240	.1430	-6.0833	.0143		-6.5561	-4.3267	-3.7546	-1.6411
1008	4.920 0	1.8752	.2982	-6.0732	.0497		-7.9894	-2.8955	-4.6847	-1.0015
4	6.420 L	1.9946	.4148	-6.0843	.0000		-9.1187	-1.7780	-5.3806	-.5277
5	6.420 P	1.9946	.4148	-6.0843	.0000	.000000	-9.1187	-1.7780	-5.3806	-.5277
1014	11.140 L	1.5624	-.0335	-6.1232	.0288		-5.0262	-5.8629	-2.5782	-2.4642
1015	11.140 P	1.1309	.0400	-4.1819	-.0650		-4.0492	-3.3426	-2.0217	-1.2896
6	12.420 L	.9394	-.1538	-4.1834	-.0938		-2.2257	-5.1757	-.8680	-2.0961
7	12.420 P	.9394	-.1538	-4.1834	.1622	.000000	-2.2257	-5.1757	-.8680	-2.0961
8	12.840 L	1.0056	-.0900	-4.1901	.1457		-2.8657	-4.5380	-1.1762	-1.8833

[illegible]

VYPOCTOVA ETAPA CISLO 1: NOSNIK      Zacatek etapy T= 14.00  
Konec etapy T= 17.51

ZATEZOVACI STAV:      POCATECNI CELKOVY SOUCET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1421	.0092	-4.5682	-.1751	.001112	-5.4116	-5.1819	
2	.420 L	1.0666	-.0671	-4.5682	-.1843		-4.4268	-6.0941	
3	.420 P	1.0666	-.0671	-4.5682	-.0441	.000000	-4.4268	-6.0941	
1002	1.700 L	1.0005	-.1357	-4.5680	-.0444		-3.5425	-6.9201	
1003	1.700 P	1.5321	-.1797	-6.8793	-.1664		-5.7000	-10.1736	
1004	1.920 0	1.4964	-.2158	-6.8773	-.1535		-5.2316	-10.6082	
1006	3.420 0	1.3293	-.3845	-6.8635	-.0660		-3.0316	-12.6549	
1008	4.920 0	1.2936	-.4187	-6.8498	.0200		-2.5670	-13.0704	
4	6.420 L	1.3149	-.3959	-6.8438	.0000		-2.8546	-12.7868	
5	6.420 P	1.3149	-.3959	-6.8438	.0000	-.009498	-2.8546	-12.7868	
1014	11.140 L	1.5239	-.1751	-6.8281	.1647		-5.6991	-10.0591	
1015	11.140 P	.9923	-.1311	-4.5170	.0427		-3.5420	-6.8063	
6	12.420 L	1.0525	-.0657	-4.5059	.0406		-4.3724	-6.0055	
7	12.420 P	1.0525	-.0657	-4.5059	.1808	.000000	-4.3724	-6.0055	
8	12.840 L	1.1260	.0091	-4.5040	.1715		-5.3355	-5.1091	

VYPOCTOVA ETAPA CISLO 1: NOSNIK      Zacatek etapy T= 14.00  
Konec etapy T= 17.51

ZATEZOVACI STAV:      KONECNY CELKOVY SOUCET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1213	.0089	-4.4853	-.1719	.001172	-5.3157	-5.0901	
2	.420 L	1.0472	-.0644	-4.4852	-.1811		-4.3478	-5.9864	
3	.420 P	1.0472	-.0644	-4.4852	-.0409	.000000	-4.3478	-5.9864	
1002	1.700 L	.9849	-.1238	-4.4843	-.0417		-3.5134	-6.7652	
1003	1.700 P	1.5046	-.1617	-6.7431	-.1610		-5.6269	-9.9471	
1004	1.920 0	1.4700	-.1946	-6.7408	-.1485		-5.1729	-10.3679	
1006	3.420 0	1.3084	-.3471	-6.7248	-.0633		-3.0458	-12.3439	
1008	4.920 0	1.2748	-.3752	-6.7111	.0203		-2.6086	-12.7349	
4	6.420 L	1.2964	-.3524	-6.7061	.0000		-2.8965	-12.4531	
5	6.420 P	1.2964	-.3524	-6.7061	.0000	-.010008	-2.8965	-12.4531	
1014	11.140 L	1.4974	-.1576	-6.6972	.1595		-5.6276	-9.8425	
1015	11.140 P	.9776	-.1197	-4.4385	.0402		-3.5143	-6.6613	
6	12.420 L	1.0345	-.0631	-4.4292	.0377		-4.2993	-5.9061	
7	12.420 P	1.0345	-.0631	-4.4292	.1778	.000000	-4.2993	-5.9061	
8	12.840 L	1.1069	.0087	-4.4276	.1686		-5.2471	-5.0244	

VYPOCTOVA ETAPA CISLO 9:      Zacatek etapy T= 61.00  
Konec etapy T= 61.54

ZATEZOVACI STAV:      KONECNY CELKOVY SOUCET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.0884	-.0291	-4.3536	-.1669	.001436	-5.2133	-4.9590	.1197
2	.420 L	1.0158	-.1008	-4.3530	-.1782		-4.2665	-5.8350	.1220
3	.420 P	1.0158	-.1008	-4.3530	-.0045	.000000	-4.2665	-5.8350	.1220
1002	1.700 L	.9949	-.1183	-4.3483	-.0126		-3.9740	-6.1070	.1224
1003	1.700 P	1.4892	-.1715	-6.4906	-.1264		-5.9991	-9.1191	.1182
1004	1.920 0	1.4616	-.1970	-6.4857	-.1156		-5.6394	-9.4484	.1190
1006	3.420 0	1.3371	-.3081	-6.4502	-.0424		-4.0285	-10.9158	.1225
1008	4.920 0	1.3246	-.3138	-6.4297	.0287		-3.8733	-11.0380	.1226
4	6.420 L	1.3524	-.2853	-6.4272	.0000		-4.2372	-10.6926	.1217
5	6.420 P	1.3524	-.2853	-6.4272	.0000	-.012129	-4.2372	-10.6926	.1217
1014	11.140 L	1.4827	-.1673	-6.4488	.1250		-6.0008	-9.0225	.1182
1015	11.140 P	.9883	-.1141	-4.3062	.0112		-3.9758	-6.0105	.1224
6	12.420 L	1.0042	-.0992	-4.3014	.0014		-4.2220	-5.7606	.1221
7	12.420 P	1.0042	-.0992	-4.3014	.1752	.000000	-4.2220	-5.7606	.1221
8	12.840 L	1.0751	-.0288	-4.3004	.1638		-5.1501	-4.8983	.1199

POCATECNI CELKOVY SOUCET

VIPOCTOVA ETAPA CISLO	20:	OB100D	Zacatek etapy T=	90.00
			Konec etapy T=	97.32

KRAKODOBE MEZISOU CET

KRATKODOBE + CELK.SOUCETKRA TKODOBE MEZISOUCETKRATKODOBE + CELK.SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.0795	-.0289	-4.3179	-.1655	.000000	-5.2975	-4.9545	.4264	.4819
2	.420 L	1.0068	-.1006	-4.3172	-.1799		-4.3676	-5.8221	.5139	.4301
3	.420 P	1.0068	-.1006	-4.3172	.0401	.000000	-4.3676	-5.8221	.5139	.4301
1002	1.700 L	1.1922	.0883	-4.3119	.0225		-6.3782	-3.8278	-1.1979	1.4578
1003	1.700 P	1.6796	.0363	-6.4225	-.0898		-8.3129	-6.7687	-1.3496	1.2158
1004	1.920 O	1.6864	.0454	-6.4169	-.0807		-8.3444	-6.7180	-1.6074	1.3696
1006	3.420 O	1.7345	.1081	-6.3768	-.0193		-8.6853	-6.2970	-2.9127	2.1432
1008	4.920 O	1.8453	.2260	-6.3550	.0396		-9.8964	-5.0945	-3.9298	2.7434
4	6.420 L	1.9374	.3185	-6.3535	.0000		-10.9644	-4.0612	-4.5014	3.0819
5	6.420 P	1.9374	.3185	-6.3535	.0000	.000000	-10.9644	-4.0612	-4.5014	3.0819
1014	11.140 L	1.6173	-.0155	-6.3813	.0884		-7.6928	-7.2865	-.8786	.9400
1015	11.140 P	1.1298	.0366	-4.2704	-.0239		-5.7584	-4.3461	-.7270	1.1818
6	12.420 L	.9953	-.0990	-4.2662	-.0431		-4.3253	-5.7492	.5171	.4361
7	12.420 P	.9953	-.0990	-4.2662	.1768	.000000	-4.3253	-5.7492	.5171	.4361
8	12.840 L	1.0663	-.0285	-4.2654	.1624		-5.2369	-4.8951	.4313	.4873

VYPOCTOVA ETAPA CISLO 40:      Zacatek etapy T= 3469.92  
    Konec etapy T= 36500.00

-36-

ZATEZOVACI STAV:      KONECNY CELKOVY SOUCET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	.9685	-.0259	-3.8739	-.1485	-3.9423	-4.2236	-1.6179	-1.8168
2	.420 L	.9023	-.0905	-3.8705	-.1628	-3.1711	-4.9681	-1.2094	-2.0594
3	.420 P	.9023	-.0905	-3.8705	.0572	-3.1711	-4.9681	-1.2094	-2.0594
1002	1.700 L	.9530	-.0359	-3.8628	.0370	-3.7241	-4.4222	-1.6155	-1.8164
1003	1.700 P	1.3664	-.0764	-5.6386	-.0590	-5.1347	-6.7792	-2.3234	-2.9447
1004	1.920 0	1.3524	-.0873	-5.6297	-.0518	-4.9739	-6.9256	-2.2576	-2.9800
1006	3.420 0	1.3007	-.1200	-5.5699	-.0039	-4.3918	-7.4322	-2.0564	-3.0757
1008	4.920 0	1.3266	-.0880	-5.5517	.0411	-4.6779	-7.1445	-2.2678	-2.9490
4	6.420 L	1.3645	-.0525	-5.5611	.0000	-5.0950	-6.7540	-2.5058	-2.8165
5	6.420 P	1.3645	-.0525	-5.5611	.0000	-5.0950	-6.7540	-2.5058	-2.8165
1014	11.140 L	1.3635	-.0737	-5.6169	.0583	-5.1424	-6.7237	-2.3287	-2.9261
1015	11.140 P	.9499	-.0331	-3.8399	-.0378	-3.7316	-4.3658	-1.6206	-1.7972
6	12.420 L	.8960	-.0895	-3.8420	-.0593	-3.1517	-4.9261	-1.2025	-2.0434
7	12.420 P	.8960	-.0895	-3.8420	.1607	-3.1517	-4.9261	-1.2025	-2.0434
8	12.840 L	.9611	-.0257	-3.8444	.1464	-3.9114	-4.1907	-1.6057	-1.8033

ZATEZOVACI STAV: char      KRATKODOBE MEZISOU CET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2330	.2330	.0000	.0000	-2.5936	2.5538	-1.9648	1.1790
1003	1.700 P	.2330	.2330	.0000	.0000	-2.5946	2.5520	-1.9656	1.1777
1004	1.920 0	.2730	.2730	.0000	.0000	-3.0401	2.9871	-2.3031	1.3781
1006	3.420 0	.4680	.4680	.0000	.0000	-5.2000	5.0829	-3.9394	2.3410
1008	4.920 0	.6160	.6160	.0000	.0000	-6.8341	6.6672	-5.1774	3.0687
4	6.420 L	.6990	.6990	.0000	.0000	-7.7546	7.5649	-5.8747	3.4818
5	6.420 P	.6990	.6990	.0000	.0000	-7.7546	7.5649	-5.8747	3.4818
1014	11.140 L	.1491	.1491	.0000	.0000	-1.6608	1.6336	-1.2582	.7539
1015	11.140 P	.1491	.1491	.0000	.0000	-1.6602	1.6348	-1.2577	.7547

VYPOCTOVA ETAPA CISLO 41:      OB1001 Zacatek etapy T= 36500.00  
    Konec etapy T= 36500.00

ZATEZOVACI STAV: char      KRATKODOBE + CELK.SOU CET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	.9685	-.0259	-3.8739	-.1485	-3.9423	-4.2236	-1.6179	-1.8168
2	.420 L	.9023	-.0905	-3.8705	-.1628	-3.1711	-4.9681	-1.2094	-2.0594
3	.420 P	.9023	-.0905	-3.8705	.0572	-3.1711	-4.9681	-1.2094	-2.0594
1002	1.700 L	1.1860	.1971	-3.8628	.0370	-6.3177	-1.8684	-3.5804	-.6374
1003	1.700 P	1.5993	.1566	-5.6386	-.0590	-7.7293	-4.2272	-4.2890	-1.7669
1004	1.920 0	1.6254	.1857	-5.6297	-.0518	-8.0140	-3.9385	-4.5607	-1.6019
1006	3.420 0	1.7687	.3480	-5.5699	-.0039	-9.5918	-2.3493	-5.9958	-.7347
1008	4.920 0	1.9426	.5280	-5.5517	.0411	-11.5120	-.4773	-7.4452	.1197
4	6.420 L	2.0635	.6465	-5.5611	.0000	-12.8497	.8110	-8.3805	.6654
5	6.420 P	2.0635	.6465	-5.5611	.0000	-12.8497	.8110	-8.3805	.6654
1014	11.140 L	1.5126	.0754	-5.6169	.0583	-6.8032	-5.0901	-3.5869	-2.1722
1015	11.140 P	1.0990	.1160	-3.8399	-.0378	-5.3918	-2.7310	-2.8783	-1.0425
6	12.420 L	.8960	-.0895	-3.8420	-.0593	-3.1517	-4.9261	-1.2025	-2.0434
7	12.420 P	.8960	-.0895	-3.8420	.1607	-3.1517	-4.9261	-1.2025	-2.0434
8	12.840 L	.9611	-.0257	-3.8444	.1464	-3.9114	-4.1907	-1.6057	-1.8033

Zatez. stav cast      byl interpolovan metodami: M1, N1, Q1

VYPOCTOVA ETAPA CISLO 41:      OB1001 Zacatek etapy T= 36500.00  
    Konec etapy T= 36500.00

ZATEZOVACI STAV: cast      KRATKODOBE MEZISOU CET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1553	.1553	.0000	.0000	-1.7291	1.7025	-1.3099	.7860
1003	1.700 P	.1553	.1553	.0000	.0000	-1.7297	1.7013	-1.3104	.7852
1004	1.920 0	.1820	.1820	.0000	.0000	-2.0267	1.9914	-1.5354	.9187
1006	3.420 0	.3120	.3120	.0000	.0000	-3.4667	3.3886	-2.6263	1.5606
1008	4.920 0	.4100	.4100	.0000	.0000	-4.5487	4.4376	-3.4460	2.0425
4	6.420 L	.4660	.4660	.0000	.0000	-5.1698	5.0433	-3.9165	2.3212
5	6.420 P	.4660	.4660	.0000	.0000	-5.1698	5.0433	-3.9165	2.3212
1014	11.140 L	.0994	.0994	.0000	.0000	-1.1072	1.0891	-.8388	.5026
1015	11.140 P	.0994	.0994	.0000	.0000	-1.1068	1.0898	-.8385	.5031

ZATEZOVACI STAV: cast      KRATKODOBE + CELK.SOU CET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	.9685	-.0259	-3.8739	-.1485	-3.9423	-4.2236	-1.6179	-1.8168
2	.420 L	.9023	-.0905	-3.8705	-.1628	-3.1711	-4.9681	-1.2094	-2.0594
3	.420 P	.9023	-.0905	-3.8705	.0572	-3.1711	-4.9681	-1.2094	-2.0594
1002	1.700 L	1.1083	.1195	-3.8628	.0370	-5.4532	-2.7196	-2.9254	-1.0304
1003	1.700 P	1.5217	.0789	-5.6386	-.0590	-6.8644	-5.0779	-3.6338	-2.1595
1004	1.920 0	1.5344	.0947	-5.6297	-.0518	-7.0006	-4.9342	-3.7930	-2.0613
1006	3.420 0	1.6127	.1920	-5.5699	-.0039	-7.8585	-4.0436	-4.6827	-1.5150
1008	4.920 0	1.7366	.3220	-5.5517	.0411	-9.2266	-2.7069	-5.7138	-.9065
4	6.420 L	1.8305	.4135	-5.5611	.0000	-10.2648	-1.7107	-6.4223	-.4953
5	6.420 P	1.8305	.4135	-5.5611	.0000	-10.2648	-1.7107	-6.4223	-.4953
1014	11.140 L	1.4629	.0257	-5.6169	.0583	-6.2496	-5.6347	-3.1675	-2.4235
1015	11.140 P	1.0493	.0663	-3.8399	-.0378	-4.8384	-3.2759	-2.4591	-1.2941
6	12.420 L	.8960	-.0895	-3.8420	-.0593	-3.1517	-4.9261	-1.2025	-2.0434
7	12.420 P	.8960	-.0895	-3.8420	.1607	-3.1517	-4.9261	-1.2025	-2.0434
8	12.840 L	.9611	-.0257	-3.8444	.1464	-3.9114	-4.1907	-1.6057	-1.8033





Konec etapy T= 17.51

38-

ZATEZOVACI STAV:

POCATECNI CELKOVY SOUCET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2321	-.0092	-4.5635	-.1977	.001165	-5.0466	-5.2491	
2	.420 L	1.1471	-.0952	-4.5634	-.2072		-4.0641	-6.1534	
3	.420 P	1.1471	-.0952	-4.5634	-.0634	.000000	-4.0641	-6.1534	
1002	1.700 L	1.0570	-.1881	-4.5633	-.0608		-3.0030	-7.1382	
1003	1.700 P	1.6351	-.2418	-6.8759	-.2021		-5.0456	-10.3622	
1004	1.920 O	1.5918	-.2856	-6.8737	-.1869		-4.5420	-10.8266	
1006	3.420 O	1.3864	-.4924	-6.8583	-.0831		-2.1501	-13.0388	
1008	4.920 O	1.3367	-.5400	-6.8429	.0189		-1.5792	-13.5494	
4	6.420 L	1.3583	-.5167	-6.8365	.0000		-1.8378	-13.2942	
5	6.420 P	1.3583	-.5167	-6.8365	.0000	-.009899	-1.8378	-13.2942	
1014	11.140 L	1.6257	-.2361	-6.8209	.2001		-5.0478	-10.2399	
1015	11.140 P	1.0476	-.1824	-4.5084	.0587		-3.0055	-7.0166	
6	12.420 L	1.1308	-.0933	-4.4967	.0592		-4.0107	-6.0579	
7	12.420 P	1.1308	-.0933	-4.4967	.2030	.000000	-4.0107	-6.0579	
8	12.840 L	1.2136	-.0091	-4.4948	.1935		-4.9706	-5.1701	

Etapa 1: NOSNIK T= 14.00 Zat. stav ZTR 3-SK - SMRSTENI A DOTVAROVANI byl zapocten do vysledku

VYPOCTOVA ETAPA CISLO 1: NOSNIK  
Zacatek etapy T= 14.00  
Konec etapy T= 17.51

ZATEZOVACI STAV:

KONECNY CELKOVY SOUCET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2099	-.0089	-4.4812	-.1942	.001233	-4.9578	-5.1567	
2	.420 L	1.1264	-.0914	-4.4811	-.2036		-3.9921	-6.0453	
3	.420 P	1.1264	-.0914	-4.4811	-.0598	.000000	-3.9921	-6.0453	
1002	1.700 L	1.0404	-.1740	-4.4800	-.0578		-2.9805	-6.9832	
1003	1.700 P	1.6058	-.2206	-6.7403	-.1960		-4.9817	-10.1362	
1004	1.920 O	1.5637	-.2608	-6.7377	-.1811		-4.4927	-10.5867	
1006	3.420 O	1.3644	-.4493	-6.7196	-.0800		-2.1746	-12.7270	
1008	4.920 O	1.3173	-.4900	-6.7041	.0192		-1.6316	-13.2125	
4	6.420 L	1.3390	-.4668	-6.6987	.0000		-1.8904	-12.9592	
5	6.420 P	1.3390	-.4668	-6.6987	.0000	-.010469	-1.8904	-12.9592	
1014	11.140 L	1.5975	-.2155	-6.6909	.1942		-4.9851	-10.0246	
1015	11.140 P	1.0322	-.1690	-4.4307	.0559		-2.9842	-6.8723	
6	12.420 L	1.1118	-.0896	-4.4211	.0559		-3.9444	-5.9588	
7	12.420 P	1.1118	-.0896	-4.4211	.1997	.000000	-3.9444	-5.9588	
8	12.840 L	1.1933	-.0087	-4.4195	.1902		-4.8893	-5.0855	

VYPOCTOVA ETAPA CISLO 9:  
Zacatek etapy T= 61.00  
Konec etapy T= 61.54

ZATEZOVACI STAV:

KONECNY CELKOVY SOUCET

Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
						Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1749	-.0503	-4.3513	-.1886	.001553	-4.8703	-5.0285	.1186
2	.420 L	1.0929	-.1312	-4.3503	-.2004		-3.9252	-5.8968	.1209
3	.420 P	1.0929	-.1312	-4.3503	-.0186	.000000	-3.9252	-5.8968	.1209
1002	1.700 L	1.0537	-.1663	-4.3442	-.0248		-3.4566	-6.3282	.1216
1003	1.700 P	1.5918	-.2296	-6.4894	-.1568		-5.3762	-9.3143	.1177
1004	1.920 O	1.5574	-.2614	-6.4835	-.1438		-4.9820	-9.6725	.1186
1006	3.420 O	1.4000	-.4025	-6.4423	-.0562		-3.1846	-11.2973	.1226
1008	4.920 O	1.3767	-.4173	-6.4182	.0287		-2.9266	-11.5101	.1230
4	6.420 L	1.4055	-.3876	-6.4153	.0000		-3.2616	-11.1931	.1221
5	6.420 P	1.4055	-.3876	-6.4153	.0000	-.013064	-3.2616	-11.1931	.1221
1014	11.140 L	1.5843	-.2245	-6.4444	.1551		-5.3805	-9.2112	.1177
1015	11.140 P	1.0462	-.1611	-4.2990	.0231		-3.4609	-6.2253	.1216
6	12.420 L	1.0795	-.1290	-4.2950	.0149		-3.8814	-5.8166	.1210
7	12.420 P	1.0795	-.1290	-4.2950	.1968	.000000	-3.8814	-5.8166	.1210
8	12.840 L	1.1595	-.0497	-4.2944	.1849		-4.8072	-4.9628	.1187



VIPOCTOVA ETAPA CISLO 20: OST.ST Zacatek etapy T= 90.00  
Konec etapy T= 97.32

-39-

ZATEZOVACI STAV:

POCATECNI CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1653	-.0499	-4.3160	-.1870	.001437	-4.9740	-5.0308	.4505	.4789
2	.420 L	1.0833	-.1308	-4.3147	-.2019		-4.0476	-5.8887	.5365	.4255
3	.420 P	1.0833	-.1308	-4.3147	.0268	.000000	-4.0476	-5.8887	.5365	.4255
1002	1.700 L	1.0959	-.1139	-4.3077	.0110		-4.0952	-5.8179	.1971	.6402
1003	1.700 P	1.6266	-.1758	-6.4215	-.1193		-5.9245	-8.7275	.0562	.4030
1004	1.920 O	1.6001	-.1994	-6.4149	-.1081		-5.6165	-9.0042	.0331	.4184
1006	3.420 O	1.4862	-.2956	-6.3681	-.0326		-4.2870	-10.1838	-.1280	.5244
1008	4.920 O	1.4885	-.2842	-6.3423	.0398		-4.2858	-10.1494	-.2937	.6297
4	6.420 L	1.5257	-.2464	-6.3403	.0000		-4.6938	-9.7606	-.3842	.6859
5	6.420 P	1.5257	-.2464	-6.3403	.0000	-.011968	-4.6938	-9.7606	-.3842	.6859
1014	11.140 L	1.6193	-.1707	-6.3772	.1176		-5.9294	-8.6269	.0553	.4103
1015	11.140 P	1.0885	-.1088	-4.2631	-.0126		-4.1001	-5.7174	.1963	.6476
6	12.420 L	1.0701	-.1287	-4.2601	-.0304		-4.0061	-5.8103	.5397	.4319
7	12.420 P	1.0701	-.1287	-4.2601	.1983	.000000	-4.0061	-5.8103	.5397	.4319
8	12.840 L	1.1501	-.0493	-4.2597	.1834		-4.9136	-4.9664	.4553	.4846

VIPOCTOVA ETAPA CISLO 20: OB100D Zacatek etapy T= 90.00  
Konec etapy T= 97.32

ZATEZOVACI STAV: char

KRATKODOBE MEZISOU CET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2441	.2441	.0000	.0000		-2.3799	2.3274	-1.8030	1.1353
1003	1.700 P	.2441	.2441	.0000	.0000		-2.3808	2.3256	-1.8036	1.1341
1004	1.920 O	.2860	.2860	.0000	.0000		-2.7895	2.7220	-2.1132	1.3271
1006	3.420 O	.4910	.4910	.0000	.0000		-4.7768	4.6372	-3.6188	2.2574
1008	4.920 O	.6360	.6360	.0000	.0000		-6.1772	5.9851	-4.6797	2.9120
4	6.420 L	.7120	.7120	.0000	.0000		-6.9151	6.6997	-5.2387	3.2597
5	6.420 P	.7120	.7120	.0000	.0000	.000000	-6.9151	6.6997	-5.2387	3.2597
1014	11.140 L	.1519	.1519	.0000	.0000		-1.4818	1.4475	-1.1225	.7059
1015	11.140 P	.1519	.1519	.0000	.0000		-1.4812	1.4485	-1.1221	.7066

ZATEZOVACI STAV: char

KRATKODOBE + CELK.SOU CET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1653	-.0499	-4.3160	-.1870	.000000	-4.9740	-5.0308	.4505	.4789
2	.420 L	1.0833	-.1308	-4.3147	-.2019		-4.0476	-5.8887	.5365	.4255
3	.420 P	1.0833	-.1308	-4.3147	.0268	.000000	-4.0476	-5.8887	.5365	.4255
1002	1.700 L	1.3399	.1302	-4.3077	.0110		-6.4751	-3.4906	-1.6058	1.7756
1003	1.700 P	1.8706	.0683	-6.4215	-.1193		-8.3053	-6.4019	-1.7475	1.5372
1004	1.920 O	1.8861	.0866	-6.4149	-.1081		-8.4060	-6.2822	-2.0801	1.7455
1006	3.420 O	1.9772	.1954	-6.3681	-.0326		-9.0638	-5.5466	-3.7468	2.7818
1008	4.920 O	2.1245	.3518	-6.3423	.0398		-10.4630	-4.1643	-4.9734	3.5417
4	6.420 L	2.2377	.4656	-6.3403	.0000		-11.6089	-3.0609	-5.6229	3.9455
5	6.420 P	2.2377	.4656	-6.3403	.0000	.000000	-11.6089	-3.0609	-5.6229	3.9455
1014	11.140 L	1.7712	-.0188	-6.3772	.1176		-7.4112	-7.1794	-1.0672	1.1162
1015	11.140 P	1.2404	.0431	-4.2631	-.0126		-5.5813	-4.2688	-.9258	1.3542
6	12.420 L	1.0701	-.1287	-4.2601	-.0304		-4.0061	-5.8103	.5397	.4319
7	12.420 P	1.0701	-.1287	-4.2601	.1983	.000000	-4.0061	-5.8103	.5397	.4319
8	12.840 L	1.1501	-.0493	-4.2597	.1834		-4.9136	-4.9664	.4553	.4846

ZATEZOVACI STAV: cast

KRATKODOBE MEZISOU CET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1621	.1621	.0000	.0000		-1.5810	1.5462	-1.1978	.7542
1003	1.700 P	.1621	.1621	.0000	.0000		-1.5816	1.5450	-1.1982	.7534
1004	1.920 O	.1900	.1900	.0000	.0000		-1.8531	1.8084	-1.4039	.8816
1006	3.420 O	.3250	.3250	.0000	.0000		-3.1618	3.0694	-2.3953	1.4942
1008	4.920 O	.4220	.4220	.0000	.0000		-4.0987	3.9712	-3.1051	1.9322
4	6.420 L	.4730	.4730	.0000	.0000		-4.5939	4.4508	-3.4802	2.1655
5	6.420 P	.4730	.4730	.0000	.0000	.000000	-4.5939	4.4508	-3.4802	2.1655
1014	11.140 L	.1009	.1009	.0000	.0000		-.9844	.9616	-.7457	.4689
1015	11.140 P	.1009	.1009	.0000	.0000		-.9840	.9623	-.7455	.4694

ZATEZOVACI STAV: cast

KRATKODOBE + CELK.SOU CET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1653	-.0499	-4.3160	-.1870	.000000	-4.9740	-5.0308	.4505	.4789
2	.420 L	1.0833	-.1308	-4.3147	-.2019		-4.0476	-5.8887	.5365	.4255
3	.420 P	1.0833	-.1308	-4.3147	.0268	.000000	-4.0476	-5.8887	.5365	.4255
1002	1.700 L	1.2580	.0483	-4.3077	.0110		-5.6762	-4.2718	-1.0006	1.3945
1003	1.700 P	1.7887	-.0136	-6.4215	-.1193		-7.5062	-7.1825	-1.1421	1.1565
1004	1.920 O	1.7901	-.0094	-6.4149	-.1081		-7.4696	-7.1959	-1.3708	1.3000
1006	3.420 O	1.8112	.0294	-6.3681	-.0326		-7.4488	-7.1144	-2.5233	2.0186
1008	4.920 O	1.9105	.1378	-6.3423	.0398		-8.3845	-6.1781	-3.3987	2.5619
4	6.420 L	1.9987	.2266	-6.3403	.0000		-9.2877	-5.3099	-3.8644	2.8513
5	6.420 P	1.9987	.2266	-6.3403	.0000	.000000	-9.2877	-5.3099	-3.8644	2.8513
1014	11.140 L	1.7202	-.0698	-6.3772	.1176		-6.9138	-7.6653	-.6904	.8793
1015	11.140 P	1.1894	-.0079	-4.2631	-.0126		-5.0841	-4.7551	-.5491	1.1170
6	12.420 L	1.0701	-.1287	-4.2601	-.0304		-4.0061	-5.8103	.5397	.4319
7	12.420 P	1.0701	-.1287	-4.2601	.1983	.000000	-4.0061	-5.8103	.5397	.4319
8	12.840 L	1.1501	-.0493	-4.2597	.1834		-4.9136	-4.9664	.4553	.4846

ZATEZOVACI STAV: KONECNY CELKOVY SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.0471	-.0449	-3.8781	-.1681	.002105	-3.6447	-4.2462	-1.4559	-1.7968
2	.420 L	.9722	-.1177	-3.8735	-.1828		-2.8804	-4.9774	-1.0519	-2.0479
3	.420 P	.9722	-.1177	-3.8735	.0459	.000000	-2.8804	-4.9774	-1.0519	-2.0479
1002	1.700 L	1.0073	-.0771	-3.8614	.0272		-3.2116	-4.6440	-1.3296	-1.8702
1003	1.700 P	1.4588	-.1256	-5.6447	-.0844		-4.5329	-6.9611	-1.9898	-2.9796
1004	1.920 0	1.4388	-.1416	-5.6336	-.0753		-4.3343	-7.1403	-1.9027	-3.0287
1006	3.420 0	1.3581	-.1974	-5.5595	-.0149		-3.5498	-7.8209	-1.5876	-3.1915
1008	4.920 0	1.3750	-.1717	-5.5336	.0415		-3.7181	-7.6382	-1.7319	-3.0947
4	6.420 L	1.4140	-.1351	-5.5421	.0000		-4.0961	-7.2863	-1.9470	-2.9686
5	6.420 P	1.4140	-.1351	-5.5421	.0000	-.017066	-4.0961	-7.2863	-1.9470	-2.9686
1014	11.140 L	1.4554	-.1223	-5.6213	.0835		-4.5419	-6.9026	-1.9956	-2.9596
1015	11.140 P	1.0037	-.0738	-3.8368	-.0282		-3.2205	-4.5846	-1.3352	-1.8497
6	12.420 L	.9649	-.1164	-3.8428	-.0483		-2.8617	-4.9326	-1.0453	-2.0308
7	12.420 P	.9649	-.1164	-3.8428	.1804	.000000	-2.8617	-4.9326	-1.0453	-2.0308
8	12.840 L	1.0385	-.0445	-3.8464	.1656		-3.6142	-4.2107	-1.4439	-1.7822

ZATEZOVACI STAV: char      KRATKODOBE MEZISOU CET

						Zakladni cast		Sprazena cast		
Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2441	.2441	.0000	.0000		-2.3799	2.3274	-1.8030	1.1353
1003	1.700 P	.2441	.2441	.0000	.0000		-2.3808	2.3256	-1.8036	1.1341
1004	1.920 O	.2860	.2860	.0000	.0000		-2.7895	2.7220	-2.1132	1.3271
1006	3.420 O	.4910	.4910	.0000	.0000		-4.7768	4.6372	-3.6188	2.2574
1008	4.920 O	.6360	.6360	.0000	.0000		-6.1772	5.9851	-4.6797	2.9120
4	6.420 L	.7120	.7120	.0000	.0000		-6.9151	6.6997	-5.2387	3.2597
5	6.420 P	.7120	.7120	.0000	.0000	.000000	-6.9151	6.6997	-5.2387	3.2597
1014	11.140 L	.1519	.1519	.0000	.0000		-1.4818	1.4475	-1.1225	.7059
1015	11.140 P	.1519	.1519	.0000	.0000		-1.4812	1.4485	-1.1221	.7069

ZATEZOVACI STAV: char      KRATKODOBE + CELK. SOUCET

Staniceneni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.0471	-.0449	-3.8781	-.1681	.000000	-3.6447	-4.2462	-1.4559	-1.7968
2	.420 L	.9722	-.1177	-3.8735	-.1828		-2.8804	-4.9774	-1.0519	-2.0479
3	.420 P	.9722	-.1177	-3.8735	.0459	.000000	-2.8804	-4.9774	-1.0519	-2.0479
1002	1.700 L	1.2514	.1670	-3.8614	.0272		-5.5915	-2.3167	-3.1325	-.7349
1003	1.700 P	1.7028	.1185	-5.6447	-.0844		-6.9136	-4.6355	-3.7934	-1.8455
1004	1.920 O	1.7248	.1444	-5.6336	-.0753		-7.1238	-4.4182	-4.0159	-1.7016
1006	3.420 O	1.8491	.2936	-5.5595	-.0149		-8.3266	-3.1837	-5.2063	-.9340
1008	4.920 O	2.0110	.4643	-5.5336	.0415		-9.8953	-1.6531	-6.4116	-.1827
4	6.420 L	2.1260	.5769	-5.5421	.0000		-11.0112	-.5866	-7.1857	.2911
5	6.420 P	2.1260	.5769	-5.5421	.0000	.000000	-11.0112	-.5866	-7.1857	.2911
1014	11.140 L	1.6073	.0296	-5.6213	.0835		-6.0237	-5.4551	-3.1181	-2.2537
1015	11.140 P	1.1556	.0781	-3.8368	-.0282		-4.7017	-3.1361	-2.4573	-1.1430
6	12.420 L	.9649	-.1164	-3.8428	-.0483		-2.8617	-4.9326	-1.0453	-2.0308
7	12.420 P	.9649	-.1164	-3.8428	.1804	.000000	-2.8617	-4.9326	-1.0453	-2.0308
8	12.840 L	1.0385	-.0445	-3.8464	.1656		-3.6142	-4.2107	-1.4439	-1.7822

VYPOCTOVA ETAPA CISLO 41: OB1001 Zacatek etapy T= 36500.00  
 Konec etapy T= 36500.00

ZATEZOVACI STAV: cast      KRA TKODOBE MEZISOU CET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1621	.1621	.0000	.0000		-1.5810	1.5462	-1.1978	.7542
1003	1.700 P	.1621	.1621	.0000	.0000		-1.5816	1.5450	-1.1982	.7534
1004	1.920 0	.1900	.1900	.0000	.0000		-1.8531	1.8084	-1.4039	.8816
1006	3.420 0	.3250	.3250	.0000	.0000		-3.1618	3.0694	-2.3953	1.4942
1008	4.920 0	.4220	.4220	.0000	.0000		-4.0987	3.9712	-3.1051	1.9322
4	6.420 L	.4730	.4730	.0000	.0000		-4.5939	4.4508	-3.4802	2.1655
5	6.420 P	.4730	.4730	.0000	.0000	.000000	-4.5939	4.4508	-3.4802	2.1655
1014	11.140 L	.1009	.1009	.0000	.0000		-.9844	.9616	-.7457	.4689
1015	11.140 P	.1009	.1009	.0000	.0000		-.9840	.9623	-.7455	.4690

ZATEZOVACI STAV: cast      KRATKODOBE + CELK.SOU CET

	Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
								Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000	P	1.0471	-.0449	-3.8781	-.1681	.000000	-3.6447	-4.2462	-1.4559	-1.7968
2	.420	L	.9722	-.1177	-3.8735	-.1828		-2.8804	-4.9774	-1.0519	-2.0479
3	.420	P	.9722	-.1177	-3.8735	.0459	.000000	-2.8804	-4.9774	-1.0519	-2.0479
1002	1.700	L	1.1694	.0851	-3.8614	.0272		-4.7927	-3.0979	-2.5273	-1.1160
1003	1.700	P	1.6209	.0366	-5.6447	-.0844		-6.1145	-5.4161	-3.1880	-2.2261
1004	1.920	O	1.6288	.0484	-5.6336	-.0753		-6.1875	-5.3319	-3.3066	-2.1471
1006	3.420	O	1.6831	.1276	-5.5595	-.0149		-6.7116	-4.7515	-3.9829	-1.6972
1008	4.920	O	1.7970	.2503	-5.5336	.0415		-7.8168	-3.6670	-4.8370	-1.1625
4	6.420	L	1.8870	.3379	-5.5421	.0000		-8.6900	-2.8355	-5.4272	-.8031
5	6.420	P	1.8870	.3379	-5.5421	.0000	.000000	-8.6900	-2.8355	-5.4272	-.8031
1014	11.140	L	1.5564	-.0214	-5.6213	.0835		-5.5263	-5.9410	-2.7413	-2.4907
1015	11.140	P	1.1047	.0272	-3.8368	-.0282		-4.2045	-3.6223	-2.0807	-1.3802
6	12.420	L	.9649	-.1164	-3.8428	-.0483		-2.8617	-4.9326	-1.0453	-2.0308
7	12.420	P	.9649	-.1164	-3.8428	.1804	.000000	-2.8617	-4.9326	-1.0453	-2.0308
8	12.840	L	1.0385	-.0445	-3.8464	.1656		-3.6142	-4.2107	-1.4439	-1.7822

-47-

[illegible]



## POCATECNI CELKOVY SOUCET

VÝPOČTOVÁ ETAPA ČÍSLO	20:	OB100D	Zacátek etapy T=	90.00
			Konec etapy T=	97.32

## KRA TKODOBE MEZISOUCET

ZATEZOVACI STAV: char

## KRATKODOBE + CELK. SOUCET

20:	OB100D	Zacatek etapy T=	90.00
		Konec etapy T=	97.32

KRATKODOBE MEZISOUČET

ZATEZOVACI STAV: cast

## KRATKODOBE + CELK. SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast	Sprazena cast		
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2939	-.0279	-4.3130	-.2156	.000000	-5.1474	-4.6759	.4298	.4997
2	.420 L	1.1998	-.1209	-4.3123	-.2314		-4.1998	-5.5597	.5168	.4426
3	.420 P	1.1998	-.1209	-4.3123	.0105	.000000	-4.1998	-5.5597	.5168	.4426
1002	1.700 L	1.3651	.0492	-4.3051	-.0034		-5.5130	-4.2308	-.9202	1.3961
1003	1.700 P	1.9388	-.0228	-6.4213	-.1455		-7.2545	-7.1111	-1.0519	1.1626
1004	1.920 0	1.9365	-.0220	-6.4143	-.1323		-7.1786	-7.1617	-1.2653	1.3036
1006	3.420 0	1.9399	.0017	-6.3644	-.0435		-6.9537	-7.2706	-2.3411	2.0104
1008	4.920 0	2.0440	.1162	-6.3362	.0417		-7.8059	-6.4041	-3.1956	2.5692
4	6.420 L	2.1442	.2172	-6.3337	.0000		-8.7103	-5.5272	-3.6764	2.8839
5	6.420 P	2.1442	.2172	-6.3337	.0000	.000000	-8.7103	-5.5272	-3.6764	2.8839
1014	11.140 L	1.8666	-.0803	-6.3729	.1434		-6.7134	-7.5410	-.6401	.8973
1015	11.140 P	1.2928	-.0082	-4.2562	.0012		-4.9722	-4.6611	-.5085	1.1306
6	12.420 L	1.1838	-.1187	-4.2527	-.0149		-4.1524	-5.4794	.5203	.4492
7	12.420 P	1.1838	-.1187	-4.2527	.2271	.000000	-4.1524	-5.4794	.5203	.4492
8	12.840 L	1.2755	-.0275	-4.2518	.2112		-5.0796	-4.6114	.4351	.5059

KONECNY CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1647	-.0251	-3.8824	-.1941	.002022	-3.7438	-3.8891	-1.5009	-1.6425
2	.420 L	1.0790	-.1091	-3.8792	-.2098		-2.9671	-4.6395	-1.0914	-1.9117
3	.420 P	1.0790	-.1091	-3.8792	.0322	.000000	-2.9671	-4.6395	-1.0914	-1.9117
1002	1.700 L	1.0956	-.0861	-3.8659	.0151		-3.0918	-4.5032	-1.2545	-1.7999
1003	1.700 P	1.5850	-.1434	-5.6578	-.1069		-4.3292	-6.7803	-1.8684	-2.8891
1004	1.920 O	1.5599	-.1640	-5.6461	-.0960		-4.1089	-6.9814	-1.7692	-2.9488
1006	3.420 O	1.4547	-.2404	-5.5661	-.0239		-3.2061	-7.7768	-1.3882	-3.1619
1008	4.920 O	1.4656	-.2187	-5.5362	.0436		-3.3057	-7.6549	-1.4938	-3.0833
4	6.420 L	1.5067	-.1800	-5.5440	.0000		-3.6584	-7.3235	-1.6942	-2.9591
5	6.420 P	1.5067	-.1800	-5.5440	.0000	-.016788	-3.6584	-7.3235	-1.6942	-2.9591
1014	11.140 L	1.5809	-.1396	-5.6320	.1058		-4.3378	-6.7190	-1.8741	-2.8678
1015	11.140 P	1.0912	-.0822	-3.8389	-.0163		-3.1002	-4.4409	-1.2601	-1.7779
6	12.420 L	1.0701	-.1077	-3.8455	-.0351		-2.9455	-4.5937	-1.0837	-1.8940
7	12.420 P	1.0701	-.1077	-3.8455	.2068	.000000	-2.9455	-4.5937	-1.0837	-1.8940
8	12.840 L	1.1543	-.0249	-3.8477	.1911		-3.7096	-3.8537	-1.4875	-1.6280

[illegible]

KRATKODOBE MEZISOUČET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2637	.2637	.0000	.0000		-2.2658	2.2316	-1.7165	1.1375
1003	1.700 P	.2637	.2637	.0000	.0000		-2.2666	2.2299	-1.7171	1.1363
1004	1.920 0	.3090	.3090	.0000	.0000		-2.6557	2.6100	-2.0119	1.3297
1006	3.420 0	.5290	.5290	.0000	.0000		-4.5346	4.4337	-3.4353	2.2559
1008	4.920 0	.6910	.6910	.0000	.0000		-5.9132	5.7706	-4.4797	2.9347
4	6.420 L	.7790	.7790	.0000	.0000		-6.6660	6.5049	-5.0500	3.3082
5	6.420 P	.7790	.7790	.0000	.0000	.000000	-6.6660	6.5049	-5.0500	3.3082
1014	11.140 L	.1662	.1662	.0000	.0000		-1.4286	1.4055	-1.0823	.7162
1015	11.140 P	.1662	.1662	.0000	.0000		-1.4281	1.4065	-1.0819	.7177

KRATKODOBE + CELK. SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1647	-.0251	-3.8824	-.1941	.000000	-3.7438	-3.8891	-1.5009	-1.6425
2	.420 L	1.0790	-.1091	-3.8792	-.2098		-2.9671	-4.6395	-1.0914	-1.9117
3	.420 P	1.0790	-.1091	-3.8792	.0322	.000000	-2.9671	-4.6395	-1.0914	-1.9117
1002	1.700 L	1.3593	.1776	-3.8659	.0151		-5.3576	-2.2716	-2.9711	-.6624
1003	1.700 P	1.8486	.1203	-5.6578	-.1069		-6.5958	-4.5504	-3.5855	-1.7528
1004	1.920 0	1.8689	.1450	-5.6461	-.0960		-6.7646	-4.3714	-3.7811	-1.6191
1006	3.420 0	1.9837	.2886	-5.5661	-.0239		-7.7407	-3.3431	-4.8235	-.9060
1008	4.920 0	2.1566	.4723	-5.5362	.0436		-9.2190	-1.8843	-5.9735	-.1485
4	6.420 L	2.2857	.5990	-5.5440	.0000		-10.3245	-.8186	-6.7442	.3491
5	6.420 P	2.2857	.5990	-5.5440	.0000	.000000	-10.3245	-.8186	-6.7442	.3491
1014	11.140 L	1.7471	.0266	-5.6320	.1058		-5.7664	-5.3135	-2.9564	-2.1516
1015	11.140 P	1.2574	.0840	-3.8389	-.0163		-4.5283	-3.0344	-2.3420	-1.0609
6	12.420 L	1.0701	-.1077	-3.8455	-.0351		-2.9455	-4.5937	-1.0837	-1.8940
7	12.420 P	1.0701	-.1077	-3.8455	.2068	.000000	-2.9455	-4.5937	-1.0837	-1.8940
8	12.840 L	1.1543	-.0249	-3.8477	.1911		-3.7096	-3.8537	-1.4875	-1.6288

VIPOCTOVA ETAPA CISLO	41:	OB1001	Zacatek etapy T=	36500.00
			Konec etapy T=	36500.00

KRATKODOBE MEZISOU CET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1741	.1741	.0000	.0000		-1.4959	1.4733	-1.1332	.7510
1003	1.700 P	.1741	.1741	.0000	.0000		-1.4964	1.4722	-1.1336	.7502
1004	1.920 0	.2040	.2040	.0000	.0000		-1.7533	1.7231	-1.3282	.8778
1006	3.420 0	.3490	.3490	.0000	.0000		-2.9916	2.9251	-2.2664	1.4883
1008	4.920 0	.4580	.4580	.0000	.0000		-3.9193	3.8248	-2.9692	1.9452
4	6.420 L	.5190	.5190	.0000	.0000		-4.4412	4.3338	-3.3645	2.2040
5	6.420 P	.5190	.5190	.0000	.0000	.000000	-4.4412	4.3338	-3.3645	2.2040
1014	11.140 L	.1107	.1107	.0000	.0000		-.9518	.9364	-.7210	.4772
1015	11.140 P	.1107	.1107	.0000	.0000		-.9514	.9371	-.7208	.4777

KRATKODOBE + CELK.SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1647	-.0251	-3.8824	-.1941	.000000	-3.7438	-3.8891	-1.5009	-1.6425
2	.420 L	1.0790	-.1091	-3.8792	-.2098		-2.9671	-4.6395	-1.0914	-1.9117
3	.420 P	1.0790	-.1091	-3.8792	.0322	.000000	-2.9671	-4.6395	-1.0914	-1.9117
1002	1.700 L	1.2697	.0880	-3.8659	.0151		-4.5877	-3.0299	-2.3878	-1.0489
1003	1.700 P	1.7590	.0307	-5.6578	-.1069		-5.8256	-5.3081	-3.0020	-2.1389
1004	1.920 0	1.7639	.0400	-5.6461	-.0960		-5.8622	-5.2583	-3.0975	-2.0709
1006	3.420 0	1.8037	.1086	-5.5661	-.0239		-6.1977	-4.8517	-3.6546	-1.6736
1008	4.920 0	1.9236	.2393	-5.5362	.0436		-7.2251	-3.8301	-4.4630	-1.1381
4	6.420 L	2.0257	.3390	-5.5440	.0000		-8.0996	-2.9897	-5.0588	-.7550
5	6.420 P	2.0257	.3390	-5.5440	.0000	.000000	-8.0996	-2.9897	-5.0588	-.7550
1014	11.140 L	1.6916	-.0289	-5.6320	.1058		-5.2896	-5.7826	-2.5951	-2.3906
1015	11.140 P	1.2019	.0285	-3.8389	-.0163		-4.0517	-3.5038	-1.9809	-1.3002
6	12.420 L	1.0701	-.1077	-3.8455	-.0351		-2.9455	-4.5937	-1.0837	-1.8940
7	12.420 P	1.0701	-.1077	-3.8455	.2068	.000000	-2.9455	-4.5937	-1.0837	-1.8940
8	12.840 L	1.1543	-.0249	-3.8477	.1911		-3.7096	-3.8537	-1.4875	-1.6280

-45-

90



VÝPOČTOVÁ ETAPA ČÍSLO	1: NOSNÍK	Začátek etapy T=	14.00
		Konec etapy T=	17.51

## ZATEZOVACI STAV: POCATECNI CELKOVY SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.3674	.0092	-4.5580	-.2279	.000901	-4.4945	-4.3364		
2	.420 L	1.2694	-.0897	-4.5579	-.2388		-3.6093	-5.1514		
3	.420 P	1.2694	-.0897	-4.5579	-.0714	.000000	-3.6093	-5.1514		
1002	1.700 L	1.1673	-.1945	-4.5578	-.0688		-2.6725	-6.0199		
1003	1.700 P	1.7918	-.2620	-6.8706	-.2230		-4.3404	-8.8510		
1004	1.920 0	1.7440	-.3102	-6.8681	-.2060		-3.9071	-9.2501		
1006	3.420 0	1.5183	-.5364	-6.8517	-.0904		-1.8589	-11.1389		
1008	4.920 0	1.4661	-.5856	-6.8352	.0231		-1.3943	-11.5498		
4	6.420 L	1.4914	-.5584	-6.8286	.0000		-1.6321	-11.3157		
5	6.420 P	1.4914	-.5584	-6.8286	.0000	-.007696	-1.6321	-11.3157		
1014	11.140 L	1.7805	-.2553	-6.8105	.2204		-4.3418	-8.7373		
1015	11.140 P	1.1561	-.1878	-4.4979	.0662		-2.6741	-5.9069		
6	12.420 L	1.2497	-.0877	-4.4853	.0663		-3.5570	-5.0644		
7	12.420 P	1.2497	-.0877	-4.4853	.2337	.000000	-3.5570	-5.0644		
8	12.840 L	1.3450	.0091	-4.4834	.2227		-4.4210	-4.2654		

VÝPOČTOVÁ ETAPA ČÍSLO	1: NOSNÍK	Začátek etapy T=	14.00
		Konec etapy T=	17.51

## ZATEZOVACI STAV: KONECNY CELKOVY SOUCET

						Zakladni cast		Sprazena cast	
Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.3433	.0089	-4.4777	-.2239	.000954	-4.4170	-4.2615	
2	.420 L	1.2469	-.0865	-4.4776	-.2348		-3.5466	-5.0628	
3	.420 P	1.2469	-.0865	-4.4776	-.0674	.000000	-3.5466	-5.0628	
1002	1.700 L	1.1497	-.1805	-4.4767	-.0654		-2.6535	-5.8900	
1003	1.700 P	1.7607	-.2407	-6.7389	-.2163		-4.2884	-8.6608	
1004	1.920 0	1.7143	-.2852	-6.7362	-.1997		-3.8675	-9.0481	
1006	3.420 0	1.4954	-.4929	-6.7177	-.0871		-1.8826	-10.8762	
1008	4.920 0	1.4460	-.5354	-6.7015	.0234		-1.4414	-11.2665	
4	6.420 L	1.4715	-.5082	-6.6958	.0000		-1.6794	-11.0340	
5	6.420 P	1.4715	-.5082	-6.6958	.0000	-.008141	-1.6794	-11.0340	
1014	11.140 L	1.7507	-.2347	-6.6850	.2140		-4.2910	-8.5570	
1015	11.140 P	1.1397	-.1745	-4.4228	.0631		-2.6563	-5.7869	
6	12.420 L	1.2293	-.0846	-4.4122	.0627		-3.4999	-4.9839	
7	12.420 P	1.2293	-.0846	-4.4122	.2301	.000000	-3.4999	-4.9839	
8	12.840 L	1.3232	.0087	-4.4106	.2191		-4.3507	-4.1976	

VÝPOČTOVÁ ETAPA ČÍSLO	9:	Zacátek etapy T=	61.00
		Konec etapy T=	61.54

## ZATEZOVACI STAV: KONECNY CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast	Sprazena cast		
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.3070	-.0363	-4.3565	-.2178	.001181	-4.3548	-4.1690	.1185	.1398
2	.420 L	1.2123	-.1299	-4.3559	-.2318		-3.5011	-4.9541	.1206	.1385
3	.420 P	1.2123	-.1299	-4.3559	-.0171	.000000	-3.5011	-4.9541	.1206	.1385
1002	1.700 L	1.1723	-.1661	-4.3508	-.0253		-3.1263	-5.2997	.1212	.1380
1003	1.700 P	1.7565	-.2445	-6.5086	-.1699		-4.6994	-7.9379	.1180	.1321
1004	1.920 0	1.7194	-.2791	-6.5031	-.1556		-4.3666	-8.2404	.1188	.1316
1006	3.420 0	1.5511	-.4310	-6.4646	-.0587		-2.8655	-9.5967	.1221	.1295
1008	4.920 0	1.5305	-.4426	-6.4413	.0351		-2.6918	-9.7341	.1223	.1294
4	6.420 L	1.5648	-.4073	-6.4380	.0000		-3.0037	-9.4389	.1215	.1300
5	6.420 P	1.5648	-.4073	-6.4380	.0000	-.009986	-3.0037	-9.4389	.1215	.1300
1014	11.140 L	1.7475	-.2384	-6.4593	.1678		-4.7027	-7.8418	.1180	.1323
1015	11.140 P	1.1632	-.1599	-4.3012	.0232		-3.1297	-5.2038	.1212	.1382
6	12.420 L	1.1961	-.1276	-4.2955	.0127		-3.4583	-4.8809	.1207	.1386
7	12.420 P	1.1961	-.1276	-4.2955	.2274	.000000	-3.4583	-4.8809	.1207	.1386
8	12.840 L	1.2884	-.0358	-4.2945	.2133		-4.2935	-4.1098	.1187	.1400



POCATECNI CELKOVY SOUCET

						Zakladni cast		Sprazena cast		
Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2970	-.0360	-4.3234	-.2162		-4.4891	-4.1967	.4850	.5462
2	.420 L	1.2023	-.1297	-4.3226	-.2340	.001059	-3.6524	-4.9726	.5627	.4954
3	.420 P	1.2023	-.1297	-4.3226	.0386	.000000	-3.6524	-4.9726	.5627	.4954
1002	1.700 L	1.2258	-.1021	-4.3169	.0186		-3.7688	-4.8399	.2320	.7145
1003	1.700 P	1.8028	-.1791	-6.4464	-.1243		-5.2660	-7.4111	.1176	.5046
1004	1.920 O	1.7753	-.2038	-6.4402	-.1121		-5.0143	-7.6367	.0919	.5222
1006	3.420 O	1.6603	-.3011	-6.3971	-.0301		-3.9532	-8.5741	-.0799	.6390
1008	4.920 O	1.6713	-.2808	-6.3725	.0487		-4.0221	-8.4776	-.2441	.7480
4	6.420 L	1.7158	-.2355	-6.3700	.0000		-4.4039	-8.1135	-.3299	.8040
5	6.420 P	1.7158	-.2355	-6.3700	.0000	-.008873	-4.4039	-8.1135	-.3299	.8040
1014	11.140 L	1.7939	-.1730	-6.3977	.1222		-5.2700	-7.3173	.1168	.5115
1015	11.140 P	1.2169	-.0960	-4.2679	-.0207		-3.7728	-4.7462	.2313	.7214
6	12.420 L	1.1862	-.1274	-4.2629	-.0430		-3.6117	-4.9010	.5658	.5013
7	12.420 P	1.1862	-.1274	-4.2629	.2296	.000000	-3.6117	-4.9010	.5658	.5013
8	12.840 L	1.2786	-.0355	-4.2620	.2117		-4.4305	-4.1389	.4896	.5513

VÝPOČTOVÁ ETAPA ČÍSLO	20:	OB100D	Zacátek etapy T=	90.00
			Konec etapy T=	97.32

KRATKODOBE MEZISOU CET

						Zakladni cast		Sprazena cast	
Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2944	.2944	.0000	.0000	-2.2316	2.1834	-1.6906	1.1164
1003	1.700 P	.2944	.2944	.0000	.0000	-2.2324	2.1818	-1.6912	1.1153
1004	1.920 0	.3450	.3450	.0000	.0000	-2.6156	2.5541	-1.9815	1.3053
1006	3.420 0	.5910	.5910	.0000	.0000	-4.4701	4.3452	-3.3864	2.2182
1008	4.920 0	.7630	.7630	.0000	.0000	-5.7623	5.5920	-4.3654	2.8534
4	6.420 L	.8500	.8500	.0000	.0000	-6.4191	6.2291	-4.8630	3.1785
5	6.420 P	.8500	.8500	.0000	.0000	-6.4191	6.2291	-4.8630	3.1785
1014	11.140 L	.1813	.1813	.0000	.0000	-1.3750	1.3439	-1.0417	.6870
1015	11.140 P	.1813	.1813	.0000	.0000	-1.3746	1.3449	-1.0413	.6870

KRATKODOBE + CELK.SOUCET

Staniceni							Zakladni cast		Sprazena cast		
			Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000	P	1.2970	-.0360	-4.3234	-.2162	.000000	-4.4891	-4.1967	.4850	.5462
2	.420	L	1.2023	-.1297	-4.3226	-.2340		-3.6524	-4.9726	.5627	.4954
3	.420	P	1.2023	-.1297	-4.3226	.0386	.000000	-3.6524	-4.9726	.5627	.4954
1002	1.700	L	1.5202	.1923	-4.3169	.0186		-6.0004	-2.6565	-1.4586	1.8309
1003	1.700	P	2.0972	.1153	-6.4464	-.1243		-7.4984	-5.2292	-1.5736	1.6199
1004	1.920	O	2.1203	.1412	-6.4402	-.1121		-7.6299	-5.0827	-1.8896	1.8275
1006	3.420	O	2.2513	.2899	-6.3971	-.0301		-8.4232	-4.2288	-3.4664	2.8572
1008	4.920	O	2.4343	.4822	-6.3725	.0487		-9.7845	-2.8856	-4.6095	3.6015
4	6.420	L	2.5658	.6145	-6.3700	.0000		-10.8230	-1.8844	-5.1929	3.9825
5	6.420	P	2.5658	.6145	-6.3700	.0000	.000000	-10.8230	-1.8844	-5.1929	3.9825
1014	11.140	L	1.9753	.0083	-6.3977	.1222		-6.6450	-5.9734	-.9248	1.1985
1015	11.140	P	1.3982	.0854	-4.2679	-.0207		-5.1473	-3.4013	-.8100	1.4091
6	12.420	L	1.1862	-.1274	-4.2629	-.0430		-3.6117	-4.9010	.5658	.5013
7	12.420	P	1.1862	-.1274	-4.2629	.2296	.000000	-3.6117	-4.9010	.5658	.5013
8	12.840	L	1.2786	-.0355	-4.2620	.2117		-4.4305	-4.1389	.4896	.5511

VÝPOČTOVÁ ETAPA ČÍSLO	20:	OB100D	Zacátek etapy T=	90.00
			Konec etapy T=	97.32

KRATKODOBE MEZISOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1937	.1937	.0000	.0000		-1.4683	1.4366	-1.1124	.7345
1003	1.700 P	.1937	.1937	.0000	.0000		-1.4688	1.4356	-1.1127	.7338
1004	1.920 0	.2270	.2270	.0000	.0000		-1.7210	1.6805	-1.3038	.8588
1006	3.420 0	.3890	.3890	.0000	.0000		-2.9422	2.8601	-2.2290	1.4600
1008	4.920 0	.5040	.5040	.0000	.0000		-3.8063	3.6938	-2.8836	1.8848
4	6.420 L	.5650	.5650	.0000	.0000		-4.2668	4.1405	-3.2325	2.1128
5	6.420 P	.5650	.5650	.0000	.0000	.000000	-4.2668	4.1405	-3.2325	2.1128
1014	11.140 L	.1205	.1205	.0000	.0000		-.9140	.8933	-.6924	.4566
1015	11.140 P	.1205	.1205	.0000	.0000		-.9137	.8940	-.6922	.4571

KRATKODOBE + CELK.SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2970	-.0360	-4.3234	-.2162	.000000	-4.4891	-4.1967	.4850	.5462
2	.420 L	1.2023	-.1297	-4.3226	-.2340		-3.6524	-4.9726	.5627	.4954
3	.420 P	1.2023	-.1297	-4.3226	.0386	.000000	-3.6524	-4.9726	.5627	.4954
1002	1.700 L	1.4195	.0916	-4.3169	.0186		-5.2371	-3.4032	-.8804	1.4490
1003	1.700 P	1.9965	.0146	-6.4464	-.1243		-6.7349	-5.9755	-.9952	1.2384
1004	1.920 0	2.0023	.0232	-6.4402	-.1121		-6.7352	-5.9562	-1.2119	1.3810
1006	3.420 0	2.0493	.0879	-6.3971	-.0301		-6.8954	-5.7140	-2.3089	2.0990
1008	4.920 0	2.1753	.2232	-6.3725	.0487		-7.8284	-4.7838	-3.1276	2.6329
4	6.420 L	2.2808	.3295	-6.3700	.0000		-8.6707	-3.9730	-3.5623	2.9168
5	6.420 P	2.2808	.3295	-6.3700	.0000	.000000	-8.6707	-3.9730	-3.5623	2.9168
1014	11.140 L	1.9145	-.0525	-6.3977	.1222		-6.1840	-6.4240	-.5756	.9681
1015	11.140 P	1.3374	.0246	-4.2679	-.0207		-4.6865	-3.8522	-.4609	1.1785
6	12.420 L	1.1862	-.1274	-4.2629	-.0430		-3.6117	-4.9010	.5658	.5013
7	12.420 P	1.1862	-.1274	-4.2629	.2296	.000000	-3.6117	-4.9010	.5658	.5013
8	12.840 L	1.2786	-.0355	-4.2620	.2117		-4.4305	-4.1389	.4896	.5511

VYPOCTOVA ETAPA CISLO 40:      Zacatek etapy T= 3469.92  
    Konec etapy T= 36500.00

48

ZATEZOVACI STAV: KONECNY CELKOVY SOUCET

	Staniceneni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1719	-.0325	-3.9063	-.1953	.001512	-3.2813	-3.5177	-1.2719	-1.4450
2	.420 L	1.0852	-.1175	-3.9031	-.2130		-2.5909	-4.1802	-.9069	-1.6839
3	.420 P	1.0852	-.1175	-3.9031	.0595	.000000	-2.5909	-4.1802	-.9069	-1.6839
1002	1.700 L	1.1339	-.0639	-3.8940	.0364		-2.9503	-3.8240	-1.1917	-1.4953
1003	1.700 P	1.6309	-.1265	-5.7161	-.0874		-4.0281	-5.8882	-1.7295	-2.4859
1004	1.920 O	1.6105	-.1431	-5.7066	-.0775		-3.8689	-6.0326	-1.6616	-2.5267
1006	3.420 O	1.5316	-.1985	-5.6430	-.0115		-3.2646	-6.5599	-1.4316	-2.6534
1008	4.920 O	1.5583	-.1637	-5.6214	.0505		-3.4688	-6.3488	-1.5895	-2.5463
4	6.420 L	1.6047	-.1197	-5.6292	.0000		-3.8215	-6.0186	-1.7901	-2.4216
5	6.420 P	1.6047	-.1197	-5.6292	.0000	-.012296	-3.8215	-6.0186	-1.7901	-2.4216
1014	11.140 L	1.6267	-.1226	-5.6898	.0863		-4.0360	-5.8335	-1.7347	-2.4667
1015	11.140 P	1.1295	-.0599	-3.8666	-.0376		-2.9581	-3.7685	-1.1968	-1.4756
6	12.420 L	1.0763	-.1160	-3.8690	-.0625		-2.5722	-4.1391	-.9002	-1.6680
7	12.420 P	1.0763	-.1160	-3.8690	.2100	.000000	-2.5722	-4.1391	-.9002	-1.6680
8	12.840 L	1.1614	-.0323	-3.8713	.1923		-3.2515	-3.4857	-1.2601	-1.4319

VYPOCTOVA ETAPA CISLO 41:      OB1001 Zacatek etapy T= 36500.00  
    Konec etapy T= 36500.00

ZATEZOVACI STAV: char KRATKODOBE MEZISOUSET

	Staniceneni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2944	.2944	.0000	.0000		-2.2316	2.1834	-1.6906	1.1164
1003	1.700 P	.2944	.2944	.0000	.0000		-2.2324	2.1818	-1.6912	1.1153
1004	1.920 O	.3450	.3450	.0000	.0000		-2.6156	2.5541	-1.9815	1.3053
1006	3.420 O	.5910	.5910	.0000	.0000		-4.4701	4.3452	-3.3864	2.2182
1008	4.920 O	.7630	.7630	.0000	.0000		-5.7623	5.5920	-4.3654	2.8534
4	6.420 L	.8500	.8500	.0000	.0000		-6.4191	6.2291	-4.8630	3.1785
5	6.420 P	.8500	.8500	.0000	.0000	.000000	-6.4191	6.2291	-4.8630	3.1785
1014	11.140 L	.1813	.1813	.0000	.0000		-1.3750	1.3439	-1.0417	.6870
1015	11.140 P	.1813	.1813	.0000	.0000		-1.3746	1.3449	-1.0413	.6876

ZATEZOVACI STAV: char KRATKODOBE + CELK.SOUSET

	Staniceneni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1719	-.0325	-3.9063	-.1953	.000000	-3.2813	-3.5177	-1.2719	-1.4450
2	.420 L	1.0852	-.1175	-3.9031	-.2130		-2.5909	-4.1802	-.9069	-1.6839
3	.420 P	1.0852	-.1175	-3.9031	.0595	.000000	-2.5909	-4.1802	-.9069	-1.6839
1002	1.700 L	1.4283	.2305	-3.8940	.0364		-5.1819	-1.6406	-2.8823	-.3789
1003	1.700 P	1.9253	.1679	-5.7161	-.0874		-6.2604	-3.7064	-3.4207	-1.3707
1004	1.920 O	1.9555	.2019	-5.7066	-.0775		-6.4845	-3.4785	-3.6430	-1.2215
1006	3.420 O	2.1226	.3925	-5.6430	-.0115		-7.7347	-2.2147	-4.8180	-.4352
1008	4.920 O	2.3213	.5993	-5.6214	.0505		-9.2311	-.7569	-5.9549	.3071
4	6.420 L	2.4547	.7303	-5.6292	.0000		-10.2406	.2105	-6.6531	.7569
5	6.420 P	2.4547	.7303	-5.6292	.0000	.000000	-10.2406	.2105	-6.6531	.7569
1014	11.140 L	1.8080	.0587	-5.6898	.0863		-5.4111	-4.4895	-2.7764	-1.7797
1015	11.140 P	1.3108	.1214	-3.8666	-.0376		-4.3326	-2.4236	-2.2381	-.7879
6	12.420 L	1.0763	-.1160	-3.8690	-.0625		-2.5722	-4.1391	-.9002	-1.6680
7	12.420 P	1.0763	-.1160	-3.8690	.2100	.000000	-2.5722	-4.1391	-.9002	-1.6680
8	12.840 L	1.1614	-.0323	-3.8713	.1923		-3.2515	-3.4857	-1.2601	-1.4319

VYPOCTOVA ETAPA CISLO 41:      OB1001 Zacatek etapy T= 36500.00  
    Konec etapy T= 36500.00

ZATEZOVACI STAV: cast KRATKODOBE MEZISOUSET

	Staniceneni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1937	.1937	.0000	.0000		-1.4683	1.4366	-1.1124	.7345
1003	1.700 P	.1937	.1937	.0000	.0000		-1.4688	1.4356	-1.1127	.7338
1004	1.920 O	.2270	.2270	.0000	.0000		-1.7210	1.6805	-1.3038	.8588
1006	3.420 O	.3890	.3890	.0000	.0000		-2.9422	2.8601	-2.2290	1.4600
1008	4.920 O	.5040	.5040	.0000	.0000		-3.8063	3.6938	-2.8836	1.8848
4	6.420 L	.5650	.5650	.0000	.0000		-4.2668	4.1405	-3.2325	2.1128
5	6.420 P	.5650	.5650	.0000	.0000	.000000	-4.2668	4.1405	-3.2325	2.1128

ZATEZOVACI STAV: cast KRATKODOBE + CELK.SOUSET

	Staniceneni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1719	-.0325	-3.9063	-.1953	.000000	-3.2813	-3.5177	-1.2719	-1.4450
2	.420 L	1.0852	-.1175	-3.9031	-.2130		-2.5909	-4.1802	-.9069	-1.6839
3	.420 P	1.0852	-.1175	-3.9031	.0595	.000000	-2.5909	-4.1802	-.9069	-1.6839
1002	1.700 L	1.3276	.1298	-3.8940	.0364		-4.4186	-2.3874	-2.3041	-.7608
1003	1.700 P	1.8246	.0672	-5.7161	-.0874		-5.4969	-4.4526	-2.8423	-1.7521
1004	1.920 O	1.8375	.0839	-5.7066	-.0775		-5.5899	-4.3521	-2.9653	-1.6679
1006	3.420 O	1.9206	.1905	-5.6430	-.0115		-6.2068	-3.6999	-3.6605	-1.1934
1008	4.920 O	2.0623	.3403	-5.6214	.0505		-7.2751	-2.6551	-4.4731	-.6615
4	6.420 L	2.1697	.4453	-5.6292	.0000		-8.0883	-1.8780	-5.0226	-.3089
5	6.420 P	2.1697	.4453	-5.6292	.0000	.000000	-8.0883	-1.8780	-5.0226	-.3089
1014	11.140 L	1.7472	-.0021	-5.6898	.0863		-4.9500	-4.9401	-2.4271	-2.0101
1015	11.140 P	1.2500	.0606	-3.8666	-.0376		-3.8718	-2.8745	-1.8889	-1.0185
6	12.420 L	1.0763	-.1160	-3.8690	-.0625		-2.5722	-4.1391	-.9002	-1.6680
7	12.420 P	1.0763	-.1160	-3.8690	.2100	.000000	-2.5722	-4.1391	-.9002	-1.6680
8	12.840 L	1.1614	-.0323	-3.8713	.1923		-3.2515	-3.4857	-1.2601	-1.4319

Kolin, rozpeti 12.0 m, nosník F											
10			0	0	1	1	0	0	1	0	1
20	2		0.025								
21	A	2	33000.		4.		0.0		0.3		PB600
21	B	2	25000.		4.		0.0		0.3		PB330
21	C	1	210000.		0.0		0.0		0.0		OCEL
22	1	1	1570.	195000.		0.000150					VSLSN
22	1	2	0.62	0.013		0.676		0.028	0.733	0.050	
22	1	2	0.789	0.07		0.846		0.1	0.902	0.140	
22	1	3	2.	0.033		3.		0.038	5.	0.043	
22	1	3	10.	0.052		20.		0.060	60.	0.071	
22	1	3	120.	0.086		360.		0.116	720.	0.140	
22	1	3	1440.	0.165		3000.		0.200	6000.	0.230	
22	1	3	12000.	0.260		30000.		0.300	60000.	0.326	
22	1	3	600000.	0.480		6000000.		0.700	60000000.	1.000	
00											
35		2	5	4	1.		0.	12.840		0.	
36		1			0.						
36		2			0.420						
36		3			6.420						
36		4			12.420						
36		5			12.840						
37	AB	1	1	2	1	1	1.	60.	61.		
37	AB	2	2	3	1	1	1.	60.	61.		
37	AB	3	3	4	1	1	1.	60.	61.		
37	AB	4	4	5	1	1	1.	60.	61.		
38	1	0		0.	0.033393	1.034000	0.2880	0.594	0.000		
38	1	0		12.84	0.033393	1.034000	0.2880	0.594	0.000		
38	1	1		0.	0.005627	0.28490	0.3470	0.594	0.100		
38	1	2		12.84	0.005627	0.28490	0.3470	0.594	0.100		
39	1			0.420	1.920	3.420	4.920	6.420	12.42		
00											
45		0		14.	5	4	2	3			SYS1
46		1	1	1							
46		2	2	3							
46		3	4	4							
48	U		2		5						
48	U		4		4						
00											
50	Z			14.							NOSNIK
63	1 D	7		0.000	12.840	0.025		0.0			
70	0										NOSNIK
00											
50	Z			60.							DESKA
63	1 D	7		0.000	12.840	0.025		1.0			
70	0										DESKA
00											
50	Z			90.							OST.ST
63	1 D	2		0.000	12.840	0.008800		0.0			
70	0										OST.ST
00											
50	Z			90.@obal.oba							OB100D
00											
50	Z			36500.@obal.oba							OB1001
00											
50	DP			14.							1.ETAPA
51			1	1570	8000	1	3	1368	1368	500	2000
61	1		1	1	12			0.	0.		-10
62	N	1		3.000	0.145			0.000	0.290		
62	N	2		9.340	0.145			3.800	0.0		
62	N	2		11.140	0.260			3.600	0.0		
61	1		2	1	12			0.	0.		
62	N	1		3.500	0.145			1.700	0.260		
62	N	2		9.820	0.145			3.600	0.0		
62	N	2		12.840	0.290			3.800	0.0		
61	1		2	1	12			0.	0.		
62	N	1		3.000	0.145			0.000	0.290		
62	N	2		9.820	0.145			3.800	0.0		
62	N	2		12.840	0.290			3.800	0.0		
00											
90											

zleva

zprava

kabel

-59-

## ZATEZOVACI STAV: POCATECNI CELKOVY SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.3223	.0092	-4.5595	-.2204	.000927	-4.5373	-4.3735		
2	.420 L	1.2274	-.0865	-4.5595	-.2312		-3.6603	-5.1998		
3	.420 P	1.2274	-.0865	-4.5595	-.0653	.000000	-3.6603	-5.1998		
1002	1.700 L	1.1331	-.1835	-4.5593	-.0636		-2.7724	-6.0423		
1003	1.700 P	1.7343	-.2510	-6.8717	-.2113		-4.4466	-8.9197		
1004	1.920 0	1.6890	-.2966	-6.8693	-.1951		-4.0261	-9.3161		
1006	3.420 0	1.4759	-.5104	-6.8534	-.0848		-2.0444	-11.1871		
1008	4.920 0	1.4283	-.5553	-6.8375	.0234		-1.6093	-11.5805		
4	6.420 L	1.4535	-.5283	-6.8310	.0000		-1.8513	-11.3371		
5	6.420 P	1.4535	-.5283	-6.8310	.0000	-.007912	-1.8513	-11.3371		
1014	11.140 L	1.7237	-.2446	-6.8129	.2088		-4.4471	-8.8068		
1015	11.140 P	1.1225	-.1771	-4.5007	.0611		-2.7732	-5.9301		
6	12.420 L	1.2088	-.0846	-4.4883	.0604		-3.6084	-5.1136		
7	12.420 P	1.2088	-.0846	-4.4883	.2264	.000000	-3.6084	-5.1136		
8	12.840 L	1.3011	.0091	-4.4864	.2154		-4.4646	-4.3034		

Etapa 1: NOSNIK T= 14.00 Zat. stav ZTR 3-SK - SMRSTENI A DOTVAROVANI byl zapocten do vysledku

VIPOCTOVA ETAPA CISLO	1: NOSNIK	Zacatek etapy T=	14.00
		Konec etapy T=	17.51

## ZATEZOVACI STAV: KONECNY CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2989	.0089	-4.4790	-.2165	.000981	-4.4588	-4.2978		
2	.420 L	1.2057	-.0834	-4.4789	-.2273		-3.5965	-5.1101		
3	.420 P	1.2057	-.0834	-4.4789	-.0614	.000000	-3.5965	-5.1101		
1002	1.700 L	1.1160	-.1699	-4.4780	-.0603		-2.7521	-5.9108		
1003	1.700 P	1.7043	-.2302	-6.7397	-.2049		-4.3930	-8.7268		
1004	1.920 0	1.6603	-.2723	-6.7371	-.1890		-3.9848	-9.1112		
1006	3.420 0	1.4538	-.4681	-6.7191	-.0816		-2.0655	-10.9209		
1008	4.920 0	1.4088	-.5065	-6.7034	.0237		-1.6536	-11.2936		
4	6.420 L	1.4342	-.4794	-6.6979	.0000		-1.8958	-11.0518		
5	6.420 P	1.4342	-.4794	-6.6979	.0000	-.008363	-1.8958	-11.0518		
1014	11.140 L	1.6949	-.2244	-6.6869	.2026		-4.3947	-8.6238		
1015	11.140 P	1.1066	-.1642	-4.4253	.0580		-2.7541	-5.8084		
6	12.420 L	1.1890	-.0816	-4.4149	.0569		-3.5502	-5.0320		
7	12.420 P	1.1890	-.0816	-4.4149	.2228	.000000	-3.5502	-5.0320		
8	12.840 L	1.2799	.0087	-4.4133	.2119		-4.3932	-4.2346		

VIPOCTOVA ETAPA CISLO	9:	Zacatek etapy T=	61.00
		Konec etapy T=	61.54

## ZATEZOVACI STAV: KONECNY CELKOVY SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2636	-.0354	-4.3574	-.2106	.001209	-4.3941	-4.2029	.1191	.1403
2	.420 L	1.1721	-.1259	-4.3567	-.2244		-3.5484	-4.9986	.1212	.1389
3	.420 P	1.1721	-.1259	-4.3567	-.0127	.000000	-3.5484	-4.9986	.1212	.1389
1002	1.700 L	1.1377	-.1565	-4.3517	-.0215		-3.2170	-5.3115	.1217	.1386
1003	1.700 P	1.7000	-.2346	-6.5083	-.1600		-4.7953	-7.9923	.1185	.1325
1004	1.920 0	1.6650	-.2670	-6.5029	-.1463		-4.4742	-8.2908	.1192	.1320
1006	3.420 0	1.5074	-.4089	-6.4650	-.0542		-3.0334	-9.6232	.1223	.1301
1008	4.920 0	1.4904	-.4176	-6.4424	.0350		-2.8860	-9.7402	.1225	.1300
4	6.420 L	1.5243	-.3827	-6.4393	.0000		-3.2014	-9.4352	.1216	.1306
5	6.420 P	1.5243	-.3827	-6.4393	.0000	-.010208	-3.2014	-9.4352	.1216	.1306
1014	11.140 L	1.6915	-.2287	-6.4601	.1580		-4.7978	-7.8969	.1184	.1327
1015	11.140 P	1.1291	-.1507	-4.3032	.0194		-3.2197	-5.2163	.1216	.1388
6	12.420 L	1.1567	-.1237	-4.2976	.0085		-3.5059	-4.9262	.1213	.1391
7	12.420 P	1.1567	-.1237	-4.2976	.2202	.000000	-3.5059	-4.9262	.1213	.1391
8	12.840 L	1.2460	-.0349	-4.2966	.2063		-4.3334	-4.1444	.1193	.1400

ZATEZOVACI STAV: POCATECNI CELKOVY SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2540	-.0351	-4.3241	-.2090	.001077	-4.5235	-4.2266	.4836	.5443
2	.420 L	1.1623	-.1258	-4.3233	-.2265		-3.6951	-5.0128	.5604	.4938
3	.420 P	1.1623	-.1258	-4.3233	.0417	.000000	-3.6951	-5.0128	.5604	.4938
1002	1.700 L	1.1902	-.0940	-4.3178	.0214		-3.8526	-4.8375	.7164	.2268
1003	1.700 P	1.7454	-.1706	-6.4458	-.1154		-5.3560	-7.4511	.1113	.5036
1004	1.920 0	1.7199	-.1934	-6.4398	-.1039		-5.1156	-7.6714	.0846	.5220
1006	3.420 0	1.6143	-.2820	-6.3974	-.0262		-4.1127	-8.5764	-.0919	.6427
1008	4.920 0	1.6281	-.2595	-6.3735	.0483		-4.2066	-8.4549	-.2578	.7536
4	6.420 L	1.6721	-.2148	-6.3713	.0000		-4.5914	-8.0797	-.3437	.8100
5	6.420 P	1.6721	-.2148	-6.3713	.0000	-.008999	-4.5914	-8.0797	-.3437	.8100
1014	11.140 L	1.7370	-.1648	-6.3983	.1134		-5.3591	-7.3581	.1107	.5104
1015	11.140 P	1.1817	-.0882	-4.2698	-.0234		-3.8559	-4.7445	.2262	.7233
6	12.420 L	1.1471	-.1235	-4.2648	-.0459		-3.6546	-4.9419	.5635	.4996
7	12.420 P	1.1471	-.1235	-4.2648	.2223	.000000	-3.6546	-4.9419	.5635	.4996
8	12.840 L	1.2366	-.0346	-4.2640	.2047		-4.4655	-4.1694	.4882	.5496

VIPOCTOVA ETAPA CISLO	20:	OB100D	Zacatek etapy T=	90.00
			Konec etapy T=	97.32

ZATEZOVACI STAV: char                      KRATKODOBE MEZISOU CET

						Zakladni cast		Sprazena cast	
Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2893	.2893	.0000	.0000	-2.2365	2.2426	-1.6943	1.1277
1003	1.700 P	.2893	.2893	.0000	.0000	-2.2373	2.2409	-1.6949	1.1265
1004	1.920 0	.3390	.3390	.0000	.0000	-2.6213	2.6231	-1.9859	1.3184
1006	3.420 0	.5820	.5820	.0000	.0000	-4.4899	4.4723	-3.4014	2.2451
1008	4.920 0	.7410	.7410	.0000	.0000	-5.7080	5.6758	-4.3243	2.8480
4	6.420 L	.8160	.8160	.0000	.0000	-6.2855	6.2498	-4.7618	3.1360
5	6.420 P	.8160	.8160	.0000	.0000	-6.2855	6.2498	-4.7618	3.1360
1014	11.140 L	.1741	.1741	.0000	.0000	-1.3463	1.3485	-1.0199	.6779
1015	11.140 P	.1741	.1741	.0000	.0000	-1.3458	1.3496	-1.0196	.6788

ZATEZOVACI STAV: char      KRATKODOBE + CELK.SOU CET

	Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
								Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000	P	1.2540	-.0351	-4.3241	-.2090	.000000	-4.5235	-4.2266	.4836	.5443
2	.420	L	1.1623	-.1258	-4.3233	-.2265		-3.6951	-5.0128	.5604	.4938
3	.420	P	1.1623	-.1258	-4.3233	.0417	.000000	-3.6951	-5.0128	.5604	.4938
1002	1.700	L	1.4794	.1953	-4.3178	.0214		-6.0891	-2.5949	-1.4675	1.8441
1003	1.700	P	2.0347	.1187	-6.4458	-.1154		-7.5932	-5.2103	-1.5836	1.6301
1004	1.920	O	2.0589	.1456	-6.4398	-.1039		-7.7369	-5.0483	-1.9012	1.8404
1006	3.420	O	2.1963	.3000	-6.3974	-.0262		-8.6026	-4.1041	-3.4933	2.8877
1008	4.920	O	2.3691	.4815	-6.3735	.0483		-9.9146	-2.7792	-4.5821	3.6015
4	6.420	L	2.4881	.6012	-6.3713	.0000		-10.8769	-1.8299	-5.1054	3.9459
5	6.420	P	2.4881	.6012	-6.3713	.0000	.000000	-10.8769	-1.8299	-5.1054	3.9459
1014	11.140	L	1.9111	.0093	-6.3983	.1134		-6.7055	-6.0096	-.9093	1.1884
1015	11.140	P	1.3558	.0859	-4.2698	-.0234		-5.2017	-3.3949	-.7934	1.4019
6	12.420	L	1.1471	-.1235	-4.2648	-.0459		-3.6546	-4.9419	.5635	.4996
7	12.420	P	1.1471	-.1235	-4.2648	.2223	.000000	-3.6546	-4.9419	.5635	.4996
8	12.840	L	1.2366	-.0346	-4.2640	.2047		-4.4655	-4.1694	.4882	.5499

VÝPOČTOVÁ ETAPA ČÍSLO	20:	OB100D	Zacátek etapy T=	90.00
			Konec etapy T=	97.32

ZATEZOVACI STAV: cast      KRATKODOBE MEZISOU CET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1920	.1920	.0000	.0000		-1.4844	1.4884	-1.1245	.7485
1003	1.700 P	.1920	.1920	.0000	.0000		-1.4849	1.4873	-1.1249	.7477
1004	1.920 0	.2250	.2250	.0000	.0000		-1.7398	1.7410	-1.3180	.8750
1006	3.420 0	.3800	.3800	.0000	.0000		-2.9315	2.9200	-2.2209	1.4658
1008	4.920 0	.4920	.4920	.0000	.0000		-3.7899	3.7685	-2.8712	1.8910
4	6.420 L	.5420	.5420	.0000	.0000		-4.1749	4.1512	-3.1628	2.0830
5	6.420 P	.5420	.5420	.0000	.0000	.000000	-4.1749	4.1512	-3.1628	2.0830
1014	11.140 L	.1156	.1156	.0000	.0000		-.8942	.8957	-.6775	.4503
1015	11.140 P	.1156	.1156	.0000	.0000		-.8939	.8964	-.6772	.4503

ZATEZOVACI STAV: cast      KRATKODOBE + CELK.SOUCET

Staniceni							Zakladni cast		Sprazena cast		
			Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000	P	1.2540	-.0351	-4.3241	-.2090	.000000	-4.5235	-4.5226	.4836	.5443
2	.420	L	1.1623	-.1258	-4.3233	-.2265		-3.6951	-5.0128	.5604	.4938
3	.420	P	1.1623	-.1258	-4.3233	.0417	.000000	-3.6951	-5.0128	.5604	.4938
1002	1.700	L	1.3822	.0980	-4.3178	.0214		-5.3370	-3.3490	-.8977	1.4649
1003	1.700	P	1.9374	.0214	-6.4458	-.1154		-6.8409	-5.9638	-1.0136	1.2513
1004	1.920	O	1.9449	.0316	-6.4398	-.1039		-6.8554	-5.9304	-1.2334	1.3970
1006	3.420	O	1.9943	.0980	-6.3974	-.0262		-7.0443	-5.6563	-2.3128	2.1085
1008	4.920	O	2.1201	.2325	-6.3735	.0483		-7.9965	-4.6864	-3.1290	2.6445
4	6.420	L	2.2141	.3272	-6.3713	.0000		-8.7663	-3.9285	-3.5065	2.8929
5	6.420	P	2.2141	.3272	-6.3713	.0000	.000000	-8.7663	-3.9285	-3.5065	2.8929
1014	11.140	L	1.8527	-.0492	-6.3983	.1134		-6.2534	-6.4624	-.5668	.9607
1015	11.140	P	1.2973	.0275	-4.2698	-.0234		-4.7498	-3.8481	-.4510	1.1740
6	12.420	L	1.1471	-.1235	-4.2648	-.0459		-3.6546	-4.9419	.5635	.4996
7	12.420	P	1.1471	-.1235	-4.2648	.2223	.000000	-3.6546	-4.9419	.5635	.4996
8	12.840	L	1.2366	-.0346	-4.2640	.2047		-4.4655	-4.1694	.4882	.5494

## KONECNY CELKOVY SOUCET

VÝPOČTOVÁ ETAPA ČÍSLO	41:	OB1001	Zacátek etapy T=	36500.00
			Konec etapy T=	36500.00

## KRATKODOBE MEZISOU CET

KRATKODOBE + CELK.SOUCET

Zatez. stav cast byl interpolovan metodami: M1, N1, O1

KRA TKODOBE MEZISOUCET

KRATKODOBE + CELK.SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.1325	-.0317	-3.9052	-.1887	.000000	-3.3193	-3.5563	-1.2935	-1.4660
2	.420 L	1.0487	-.1139	-3.9019	-.2061		-2.6373	-4.2266	-.9333	-1.7036
3	.420 P	1.0487	-.1139	-3.9019	.0620	.000000	-2.6373	-4.2266	-.9333	-1.7036
1002	1.700 L	1.2930	.1351	-3.8932	.0387		-4.5171	-2.3382	-2.3619	-.7526
1003	1.700 P	1.7707	.0728	-5.7123	-.0797		-5.6038	-4.4408	-2.9052	-1.7575
1004	1.920 0	1.7851	.0907	-5.7029	-.0704		-5.7097	-4.3253	-3.0358	-1.6677
1006	3.420 0	1.8696	.1976	-5.6406	-.0083		-6.3477	-3.6387	-3.7357	-1.1876
1008	4.920 0	2.0106	.3461	-5.6203	.0500		-7.4312	-2.5552	-4.5550	-.6483
4	6.420 L	2.1064	.4394	-5.6286	.0000		-8.1710	-1.8326	-5.0483	-.3303
5	6.420 P	2.1064	.4394	-5.6286	.0000	.000000	-8.1710	-1.8326	-5.0483	-.3303
1014	11.140 L	1.6904	.0001	-5.6866	.0787		-5.0206	-4.9780	-2.4626	-2.0359
1015	11.140 P	1.2124	.0625	-3.8665	-.0399		-3.9339	-2.8750	-1.9194	-1.0308
6	12.420 L	1.0402	-.1124	-3.8686	-.0649		-2.6187	-4.1858	-.9266	-1.6878
7	12.420 P	1.0402	-.1124	-3.8686	.2033	.000000	-2.6187	-4.1858	-.9266	-1.6878
8	12.840 L	1.1226	-.0314	-3.8709	.1859		-3.2897	-3.5246	-1.2818	-1.4533





VYPOCTOVA ETAPA CISLO 1: NOSNIK      Zacatek etapy T= 14.00  
Konec etapy T= 17.51

ZATEZOVACI STAV:      POCATECNI CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2764	-.0368	-4.5587	-.2203	.001117	-4.0760	-4.7544		
2	.420 L	1.1816	-.1326	-4.5587	-.2313		-3.1827	-5.6255		
3	.420 P	1.1816	-.1326	-4.5587	-.0641	.000000	-3.1827	-5.6255		
1002	1.700 L	1.0886	-.2282	-4.5585	-.0626		-2.2901	-6.5036		
1003	1.700 P	1.6903	-.2959	-6.8726	-.2233		-3.9348	-9.4003		
1004	1.920 O	1.6424	-.3441	-6.8701	-.2063		-3.4817	-9.8428		
1006	3.420 O	1.4161	-.5709	-6.8531	-.0909		-1.3354	-11.9433		
1008	4.920 O	1.3631	-.6210	-6.8361	.0224		-.8402	-12.4104		
4	6.420 L	1.3883	-.5939	-6.8293	.0000		-1.0876	-12.1531		
5	6.420 P	1.3883	-.5939	-6.8293	.0000	-.009384	-1.0876	-12.1531		
1014	11.140 L	1.6802	-.2889	-6.8138	.2209		-3.9424	-9.2794		
1015	11.140 P	1.0786	-.2212	-4.4999	.0602		-2.2979	-6.3835		
6	12.420 L	1.1637	-.1299	-4.4875	.0592		-3.1384	-5.5325		
7	12.420 P	1.1637	-.1299	-4.4875	.2264	.000000	-3.1384	-5.5325		
8	12.840 L	1.2560	-.0362	-4.4856	.2154		-4.0106	-4.6782		

VYPOCTOVA ETAPA CISLO 1: NOSNIK      Zacatek etapy T= 14.00  
Konec etapy T= 17.51

ZATEZOVACI STAV:      KONECNY CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2539	-.0354	-4.4783	-.2165	.001183	-4.0055	-4.6723		
2	.420 L	1.1607	-.1277	-4.4781	-.2274		-3.1272	-5.5285		
3	.420 P	1.1607	-.1277	-4.4781	-.0602	.000000	-3.1272	-5.5285		
1002	1.700 L	1.0723	-.2129	-4.4769	-.0593		-2.2788	-6.3621		
1003	1.700 P	1.6610	-.2729	-6.7401	-.2166		-3.8911	-9.1965		
1004	1.920 O	1.6144	-.3175	-6.7372	-.2000		-3.4512	-9.6257		
1006	3.420 O	1.3950	-.5255	-6.7175	-.0876		-1.3717	-11.6574		
1008	4.920 O	1.3448	-.5687	-6.7004	.0227		-.9014	-12.1009		
4	6.420 L	1.3702	-.5416	-6.6947	.0000		-1.1489	-11.8455		
5	6.420 P	1.3702	-.5416	-6.6947	.0000	-.009931	-1.1489	-11.8455		
1014	11.140 L	1.6521	-.2667	-6.6874	.2144		-3.8993	-9.0863		
1015	11.140 P	1.0634	-.2066	-4.4243	.0571		-2.2872	-6.2525		
6	12.420 L	1.1446	-.1253	-4.4141	.0557		-3.0877	-5.4441		
7	12.420 P	1.1446	-.1253	-4.4141	.2229	.000000	-3.0877	-5.4441		
8	12.840 L	1.2355	-.0349	-4.4126	.2119		-3.9466	-4.6035		

VYPOCTOVA ETAPA CISLO 9:      Zacatek etapy T= 61.00  
Konec etapy T= 61.54

ZATEZOVACI STAV:      KONECNY CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2200	-.0853	-4.3570	-.2106	.001493	-3.9558	-4.5631	.1184	.1419
2	.420 L	1.1282	-.1758	-4.3555	-.2244		-3.0940	-5.4012	.1205	.1405
3	.420 P	1.1282	-.1758	-4.3555	-.0120	.000000	-3.0940	-5.4012	.1205	.1405
1002	1.700 L	1.0944	-.2053	-4.3487	-.0208		-2.7641	-5.7231	.1210	.1401
1003	1.700 P	1.6572	-.2862	-6.5066	-.1716		-4.3170	-8.4188	.1179	.1340
1004	1.920 O	1.6196	-.3210	-6.5002	-.1571		-3.9663	-8.7561	.1186	.1335
1006	3.420 O	1.4488	-.4740	-6.4557	-.0599		-2.3791	-10.2741	.1221	.1312
1008	4.920 O	1.4264	-.4869	-6.4298	.0339		-2.1805	-10.4438	.1223	.1311
4	6.420 L	1.4603	-.4521	-6.4268	.0000		-2.5013	-10.1232	.1215	.1316
5	6.420 P	1.4603	-.4521	-6.4268	.0000	-.012389	-2.5013	-10.1232	.1215	.1316
1014	11.140 L	1.6492	-.2798	-6.4584	.1695		-4.3255	-8.3168	.1178	.1342
1015	11.140 P	1.0863	-.1989	-4.3003	.0188		-2.7727	-5.6212	.1209	.1403
6	12.420 L	1.1134	-.1729	-4.2964	.0078		-3.0578	-5.3229	.1206	.1407
7	12.420 P	1.1134	-.1729	-4.2964	.2202	.000000	-3.0578	-5.3229	.1206	.1407
8	12.840 L	1.2030	-.0841	-4.2963	.2063		-3.9013	-4.4995	.1186	.1421



POCATECNI CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast	Sprazena cast		
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2107	-.0846	-4.3239	-.2090	.001347	-4.1064	-4.5661	.5163	.5289
2	.420 L	1.1187	-.1753	-4.3221	-.2269		-3.2626	-5.3945	.5944	.4750
3	.420 P	1.1187	-.1753	-4.3221	.0484	.000000	-3.2626	-5.3945	.5944	.4750
1002	1.700 L	1.1539	-.1355	-4.3144	.0268		-3.4788	-5.1462	.2174	.7389
1003	1.700 P	1.7097	-.2149	-6.4436	-.1221		-4.9560	-7.7793	.1049	.5234
1004	1.920 O	1.6826	-.2390	-6.4363	-.1100		-4.6957	-8.0252	.0741	.5457
1006	3.420 O	1.5694	-.3327	-6.3861	-.0288		-3.5996	-9.0440	-.1267	.6897
1008	4.920 O	1.5813	-.3108	-6.3586	.0488		-3.6717	-8.9343	-.3093	.8177
4	6.420 L	1.6263	-.2652	-6.3565	.0000		-4.0705	-8.5311	-.4023	.8815
5	6.420 P	1.6263	-.2652	-6.3565	.0000	-.011031	-4.0705	-8.5311	-.4023	.8815
1014	11.140 L	1.7019	-.2086	-6.3961	.1201		-4.9649	-7.6796	.1038	.5307
1015	11.140 P	1.1459	-.1292	-4.2666	-.0288		-3.4878	-5.0465	.2163	.7462
6	12.420 L	1.1041	-.1724	-4.2636	-.0526		-3.2282	-5.3178	.5969	.4812
7	12.420 P	1.1041	-.1724	-4.2636	.2227	.000000	-3.2282	-5.3178	.5969	.4812
8	12.840 L	1.1939	-.0834	-4.2638	.2047		-4.0544	-4.5037	.5203	.5340

VIPOCTOVA ETAPA CISLO	20:	OB100D	Zacatek etapy T=	90.00
			Konec etapy T=	97.32

KRAKODOBE MEZISOU CET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2833	.2833	.0000	.0000		-2.2051	2.3112	-1.6705	1.1650
1003	1.700 P	.2833	.2833	.0000	.0000		-2.2059	2.3093	-1.6711	1.1638
1004	1.920 0	.3320	.3320	.0000	.0000		-2.5843	2.7029	-1.9578	1.3618
1006	3.420 0	.5540	.5540	.0000	.0000		-4.2997	4.4752	-3.2574	2.2520
1008	4.920 0	.6810	.6810	.0000	.0000		-5.2758	5.4810	-3.9968	2.7569
4	6.420 L	.7240	.7240	.0000	.0000		-5.6086	5.8266	-4.2490	2.9307
5	6.420 P	.7240	.7240	.0000	.0000	.000000	-5.6086	5.8266	-4.2490	2.9307
1014	11.140 L	.1545	.1545	.0000	.0000		-1.2026	1.2590	-.9111	.6345
1015	11.140 P	.1545	.1545	.0000	.0000		-1.2022	1.2601	-.9107	.6352

KRATKODOBE + CELK. SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2107	-.0846	-4.3239	-.2090	.000000	-4.1064	-4.5661	.5163	.5285
2	.420 L	1.1187	-.1753	-4.3221	-.2269		-3.2626	-5.3945	.5944	.4750
3	.420 P	1.1187	-.1753	-4.3221	.0484	.000000	-3.2626	-5.3945	.5944	.4750
1002	1.700 L	1.4372	.1478	-4.3144	.0268		-5.6839	-2.8350	-1.4531	1.9039
1003	1.700 P	1.9930	.0684	-6.4436	-.1221		-7.1619	-5.4700	-1.5662	1.6872
1004	1.920 O	2.0146	.0930	-6.4363	-.1100		-7.2800	-5.3223	-1.8837	1.9075
1006	3.420 O	2.1234	.2213	-6.3861	-.0288		-7.8993	-4.5688	-3.3840	2.9417
1008	4.920 O	2.2623	.3702	-6.3586	.0488		-8.9475	-3.4533	-4.3061	3.5746
4	6.420 L	2.3503	.4588	-6.3565	.0000		-9.6791	-2.7045	-4.6512	3.8122
5	6.420 P	2.3503	.4588	-6.3565	.0000	.000000	-9.6791	-2.7045	-4.6512	3.8122
1014	11.140 L	1.8563	-.0542	-6.3961	.1201		-6.1676	-6.4206	-.8073	1.1651
1015	11.140 P	1.3004	.0252	-4.2666	-.0288		-4.6899	-3.7865	-.6945	1.3814
6	12.420 L	1.1041	-.1724	-4.2636	-.0526		-3.2282	-5.3178	.5969	.4812
7	12.420 P	1.1041	-.1724	-4.2636	.2227	.000000	-3.2282	-5.3178	.5969	.4812
8	12.840 L	1.1939	-.0834	-4.2638	.2047		-4.0544	-4.5037	.5203	.5340

VÝPOČTOVÁ ETAPA ČÍSLO	20:	OB100D	Zacátek etapy T=	90.00
			Konec etapy T=	97.32

KRA TKODOBE MEZISOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1869	.1869	.0000	.0000		-1.5454	1.5245	-1.1019	.7685
1003	1.700 P	.1869	.1869	.0000	.0000		-1.4551	1.5233	-1.1023	.7677
1004	1.920 0	.2190	.2190	.0000	.0000		-1.7047	1.7830	-1.2915	.8983
1006	3.420 0	.3650	.3650	.0000	.0000		-2.8329	2.9484	-2.1461	1.4837
1008	4.920 0	.4470	.4470	.0000	.0000		-3.4629	3.5977	-2.6234	1.8096
4	6.420 L	.4730	.4730	.0000	.0000		-3.6642	3.8066	-2.7759	1.9146
5	6.420 P	.4730	.4730	.0000	.0000	.000000	-3.6642	3.8066	-2.7759	1.9146
1014	11.140 L	.1009	.1009	.0000	.0000		-.7857	.8226	-.5952	.4145
1015	11.140 P	.1009	.1009	.0000	.0000		-.7854	.8232	-.5950	.4151

KRATKODOBE + CELK.SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2107	-.0846	-4.3239	-.2090	.000000	-4.1064	-4.5661	.5163	.5285
2	.420 L	1.1187	-.1753	-4.3221	-.2269		-3.2626	-5.3945	.5944	.4750
3	.420 P	1.1187	-.1753	-4.3221	.0484	.000000	-3.2626	-5.3945	.5944	.4750
1002	1.700 L	1.3408	.0513	-4.3144	.0268		-4.9333	-3.6216	-.8846	1.5074
1003	1.700 P	1.8966	-.0280	-6.4436	-.1221		-6.4111	-6.2560	-.9974	1.2911
1004	1.920 0	1.9016	-.0200	-6.4363	-.1100		-6.4004	-6.2423	-1.2174	1.4440
1006	3.420 0	1.9344	.0323	-6.3861	-.0288		-6.4325	-6.0955	-2.2728	2.1734
1008	4.920 0	2.0283	.1362	-6.3586	.0488		-7.1347	-5.3367	-2.9328	2.6273
4	6.420 L	2.0993	.2078	-6.3565	.0000		-7.7347	-4.7245	-3.1782	2.7962
5	6.420 P	2.0993	.2078	-6.3565	.0000	.000000	-7.7347	-4.7245	-3.1782	2.7962
1014	11.140 L	1.8028	-.1077	-6.3961	.1201		-5.7506	-6.8571	-.4914	.9452
1015	11.140 P	1.2468	-.0283	-4.2666	-.0288		-4.2732	-4.2233	-.3787	1.1612
6	12.420 L	1.1041	-.1724	-4.2636	-.0526		-3.2282	-5.3178	.5969	.4812
7	12.420 P	1.1041	-.1724	-4.2636	.2227	.000000	-3.2282	-5.3178	.5969	.4812
8	12.840 L	1.1939	-.0834	-4.2638	.2047		-4.0544	-4.5037	.5203	.5343

-56-

ZATEZOVACI STAV: KONECNY CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.0933	-.0764	-3.9047	-.1887	.001954	-2.9483	-3.9066	-1.0933	-1.5945
2	.420 L	1.0087	-.1585	-3.8986	-.2064		-2.2576	-4.6109	-.7292	-1.8441
3	.420 P	1.0087	-.1585	-3.8986	.0689	.000000	-2.2576	-4.6109	-.7292	-1.8441
1002	1.700 L	1.0682	-.0933	-3.8862	.0443		-2.7179	-4.1226	-1.0757	-1.6014
1003	1.700 P	1.5465	-.1572	-5.7041	-.0847		-3.7788	-6.2550	-1.6045	-2.6174
1004	1.920 O	1.5264	-.1730	-5.6923	-.0749		-3.6184	-6.4083	-1.5377	-2.6586
1006	3.420 O	1.4494	-.2232	-5.6157	-.0098		-3.0172	-6.9576	-1.3195	-2.7796
1008	4.920 O	1.4773	-.1863	-5.5905	.0507		-3.2355	-6.7161	-1.4894	-2.6581
4	6.420 L	1.5242	-.1422	-5.6002	.0000		-3.6007	-6.3528	-1.6972	-2.5231
5	6.420 P	1.5242	-.1422	-5.6002	.0000	-.015492	-3.6007	-6.3528	-1.6972	-2.5231
1014	11.140 L	1.5429	-.1532	-5.6787	.0837		-3.7892	-6.1967	-1.6106	-2.5973
1015	11.140 P	1.0643	-.0892	-3.8596	-.0454		-2.7282	-4.0635	-1.0817	-1.5808
6	12.420 L	1.0006	-.1567	-3.8654	-.0717		-2.2424	-4.5666	-.7240	-1.8273
7	12.420 P	1.0006	-.1567	-3.8654	.2036	.000000	-2.2424	-4.5666	-.7240	-1.8273
8	12.840 L	1.0837	-.0757	-3.8705	.1858		-2.9221	-3.8717	-1.0831	-1.5800

VÝPOČTOVÁ ETAPA ČÍSLO 41: OB1001    Zčatek etapy T= 36500.00  
Konec etapy     T= 36500.00

ZATEZOVACI STAV: char      KRATKODOBE MEZISOU CET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2833	.2833	.0000	.0000		-2.2051	2.3112	-1.6705	1.1650
1003	1.700 P	.2833	.2833	.0000	.0000		-2.2059	2.3093	-1.6711	1.1638
1004	1.920 O	.3320	.3320	.0000	.0000		-2.5843	2.7029	-1.9578	1.3618
1006	3.420 O	.5540	.5540	.0000	.0000		-4.2997	4.4752	-3.2574	2.2520
1008	4.920 O	.6810	.6810	.0000	.0000		-5.2758	5.4810	-3.9968	2.7569
4	6.420 L	.7240	.7240	.0000	.0000		-5.6086	5.8266	-4.2490	2.9307
5	6.420 P	.7240	.7240	.0000	.0000	.000000	-5.6086	5.8266	-4.2490	2.9307
1014	11.140 L	.1545	.1545	.0000	.0000		-1.2026	1.2590	-.9111	.6345
1015	11.140 P	.1545	.1545	.0000	.0000		-1.2022	1.2601	-.9107	.6352

ZATEZOVACI STAV: char      KRATKODOBE + CELK.SOUCET

	Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
								Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000	P	1.0933	-.0764	-3.9047	-.1887	.000000	-2.9483	-3.9066	-1.0933	-1.5945
2	.420	L	1.0087	-.1585	-3.8986	-.2064		-2.2576	-4.6109	-.7292	-1.8441
3	.420	P	1.0087	-.1585	-3.8986	.0689	.000000	-2.2576	-4.6109	-.7292	-1.8441
1002	1.700	L	1.3515	.1900	-3.8862	.0443		-4.9230	-1.8114	-2.7462	-.4363
1003	1.700	P	1.8298	.1261	-5.7041	-.0847		-5.9847	-3.9457	-3.2756	-1.4536
1004	1.920	O	1.8584	.1590	-5.6923	-.0749		-6.2027	-3.7054	-3.4955	-1.2968
1006	3.420	O	2.0034	.3308	-5.6157	-.0098		-7.3169	-2.4824	-4.5769	-.5276
1008	4.920	O	2.1583	.4947	-5.5905	.0507		-8.5112	-1.2351	-5.4862	.0988
4	6.420	L	2.2482	.5818	-5.6002	.0000		-9.2093	-.5262	-5.9461	.4076
5	6.420	P	2.2482	.5818	-5.6002	.0000	.000000	-9.2093	-.5262	-5.9461	.4076
1014	11.140	L	1.6974	.0012	-5.6787	.0837		-4.9918	-4.9377	-2.5217	-1.9628
1015	11.140	P	1.2188	.0653	-3.8596	-.0454		-3.9304	-2.8035	-1.9924	-.9456
6	12.420	L	1.0006	-.1567	-3.8654	-.0717		-2.2424	-4.5666	-.7240	-1.8273
7	12.420	P	1.0006	-.1567	-3.8654	.2036	.000000	-2.2424	-4.5666	-.7240	-1.8273
8	12.840	L	1.0837	-.0757	-3.8705	.1858		-2.9221	-3.8717	-1.0831	-1.5800

VYPOCTOVA ETAPA CISLO	41:	OB1001	Zacatek etapy T=	36500.00
			Konec etapy T=	36500.00

ZATEZOVACI STAV: cast      KRATKODOBE MEZISOU CET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1869	.1869	.0000	.0000		-1.4545	1.5245	-1.1019	.7685
1003	1.700 P	.1869	.1869	.0000	.0000		-1.4551	1.5233	-1.1023	.7677
1004	1.920 0	.2190	.2190	.0000	.0000		-1.7047	1.7830	-1.2915	.8983
1006	3.420 0	.3650	.3650	.0000	.0000		-2.8329	2.9484	-2.1461	1.4837
1008	4.920 0	.4470	.4470	.0000	.0000		-3.4629	3.5977	-2.6234	1.8096
4	6.420 L	.4730	.4730	.0000	.0000		-3.6642	3.8066	-2.7759	1.9146
5	6.420 P	.4730	.4730	.0000	.0000	.000000	-3.6642	3.8066	-2.7759	1.9146
1014	11.140 L	.1009	.1009	.0000	.0000		-.7857	.8226	-.5952	.4145
1015	11.140 P	.1009	.1009	.0000	.0000		-.7854	.8232	-.5950	.4151

ZATEZOVACI STAV: cast      KRATKODOBE + CELK.SOU CET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.0933	-.0764	-3.9047	-.1887	.000000	-2.9483	-3.9066	-1.0933	-1.5945
2	.420 L	1.0087	-.1585	-3.8986	-.2064		-2.2576	-4.6109	-.7292	-1.8441
3	.420 P	1.0087	-.1585	-3.8986	.0689	.000000	-2.2576	-4.6109	-.7292	-1.8441
1002	1.700 L	1.2551	.0936	-3.8862	.0443		-4.1725	-2.5980	-2.1776	-.8329
1003	1.700 P	1.7334	.0296	-5.7041	-.0847		-5.2339	-4.7317	-2.7068	-1.8497
1004	1.920 0	1.7454	.0460	-5.6923	-.0749		-5.3231	-4.6254	-2.8292	-1.7604
1006	3.420 0	1.8144	.1418	-5.6157	-.0098		-5.8500	-4.0092	-3.4656	-1.2959
1008	4.920 0	1.9243	.2607	-5.5905	.0507		-6.6984	-3.1184	-4.1129	-.8485
4	6.420 L	1.9972	.3308	-5.6002	.0000		-7.2649	-2.5462	-4.4731	-.6084
5	6.420 P	1.9972	.3308	-5.6002	.0000	.000000	-7.2649	-2.5462	-4.4731	-.6084
1014	11.140 L	1.6439	-.0523	-5.6787	.0837		-4.5749	-5.3742	-2.2058	-2.1828
1015	11.140 P	1.1652	.0117	-3.8596	-.0454		-3.5136	-3.2403	-1.6767	-1.1658
6	12.420 L	1.0006	-.1567	-3.8654	-.0717		-2.2424	-4.5666	-.7240	-1.8273
7	12.420 P	1.0006	-.1567	-3.8654	.2036	.000000	-2.2424	-4.5666	-.7240	-1.8273
8	12.840 L	1.0837	-.0757	-3.8705	.1858		-2.9221	-3.8717	-1.0831	-1.5800



VÝPOČTOVÁ ETAPA ČÍSLO	1: NOSNÍK	Začátek etapy T=	14.00
		Konec etapy T=	17.51

## ZATEZOVACI STAV: POCATECNI CELKOVY SOUCET

Staniceni							Zakladni cast		Sprazena cast		
			Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000	P	1.3234	-.1014	-4.5635	-.1977	.000998	-3.4347	-5.1939		
2	.420	L	1.2380	-.1875	-4.5634	-.2089		-2.6803	-5.9367		
3	.420	P	1.2380	-.1875	-4.5634	-.0379	.000000	-2.6803	-5.9367		
1002	1.700	L	1.1770	-.2508	-4.5633	-.0407		-2.1258	-6.4888		
1003	1.700	P	1.8014	-.3514	-6.8759	-.1821		-3.4674	-9.5824		
1004	1.920	O	1.7624	-.3907	-6.8737	-.1677		-3.1207	-9.9237		
1006	3.420	O	1.5806	-.5724	-6.8583	-.0703		-1.5046	-11.5142		
1008	4.920	O	1.5450	-.6049	-6.8429	.0253		-1.1977	-11.7985		
4	6.420	L	1.5712	-.5768	-6.8365	.0000		-1.4386	-11.5469		
5	6.420	P	1.5712	-.5768	-6.8365	.0000	-.008131	-1.4386	-11.5469		
1014	11.140	L	1.7910	-.3446	-6.8209	.1800		-3.4743	-9.4715		
1015	11.140	P	1.1666	-.2440	-5.5084	.0387		-2.1328	-6.3786		
6	12.420	L	1.2204	-.1843	-4.4967	.0337		-2.6456	-5.8455		
7	12.420	P	1.2204	-.1843	-4.4967	.2048	.000000	-2.6456	-5.8455		
8	12.840	L	1.3035	-.0998	-4.4948	.1935		-3.3830	-5.1158		

1: NOSNIK	Zacatek etapy T=	14.00
	Konec etapy T=	17.51

## ZATEZOVACI STAV: KONECNY CELKOVY SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.3000	-.0976	-4.4827	-.1943	.001058	-3.3751	-5.1039		
2	.420 L	1.2160	-.1807	-4.4824	-.2054		-2.6334	-5.8339		
3	.420 P	1.2160	-.1807	-4.4824	-.0344	.000000	-2.6334	-5.8339		
1002	1.700 L	1.1592	-.2347	-4.4814	-.0378		-2.1162	-6.3481		
1003	1.700 P	1.7701	-.3258	-6.7433	-.1761		-3.4315	-9.3757		
1004	1.920 O	1.7322	-.3619	-6.7408	-.1621		-3.0957	-9.7058		
1006	3.420 O	1.5565	-.5272	-6.7235	-.0674		-1.5352	-11.2396		
1008	4.920 O	1.5234	-.5538	-6.7084	.0256		-1.2488	-11.5049		
4	6.420 L	1.5498	-.5257	-6.7030	.0000		-1.4898	-11.2550		
5	6.420 P	1.5498	-.5257	-6.7030	.0000	-.008603	-1.4898	-11.2550		
1014	11.140 L	1.7608	-.3198	-6.6940	.1742		-3.4388	-9.2746		
1015	11.140 P	1.1499	-.2286	-4.4321	.0359		-2.1237	-6.2476		
6	12.420 L	1.2002	-.1778	-4.4224	.0305		-2.6025	-5.7512		
7	12.420 P	1.2002	-.1778	-4.4224	.2016	.000000	-2.6025	-5.7512		
8	12.840 L	1.2821	-.0962	-4.4210	.1903		-3.3285	-5.0334		

VÝPOČTOVÁ ETAPA ČÍSLO	9:	Začatek etapy T=	61.00
		Konec etapy T=	61.54

## ZATEZOVACI STAV: KONECNY CELKOVY SOUCET

Staniceni		Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2650	-.1090	-4.3620	-.1890	.001434	-3.3117	-4.9827	.1425	.1457
2	.420 L	1.1824	-.1902	-4.3600	-.2016		-2.5854	-5.6945	.1443	.1443
3	.420 P	1.1824	-.1902	-4.3600	-.0076	.0000000	-2.5854	-5.6945	.1443	.1443
1002	1.700 L	1.1555	-.2130	-4.3541	-.0162		-2.3391	-5.9358	.1446	.1441
1003	1.700 P	1.7394	-.3056	-6.5107	-.1488		-3.6067	-8.8184	.1414	.1373
1004	1.920 0	1.7067	-.3357	-6.5052	-.1362		-3.3213	-9.0944	.1420	.1369
1006	3.420 0	1.5590	-.4676	-6.4689	-.0511		-2.0373	-10.3279	.1448	.1349
1008	4.920 0	1.5416	-.4769	-6.4481	.0315		-1.8967	-10.4429	.1450	.1349
4	6.420 L	1.5725	-.4450	-6.4451	.0000		-2.1727	-10.1638	.1443	.1354
5	6.420 P	1.5725	-.4450	-6.4451	.0000	-.011546	-2.1727	-10.1638	.1443	.1354
1014	11.140 L	1.7311	-.2998	-6.4657	.1471		-3.6142	-8.7250	.1413	.1375
1015	11.140 P	1.1471	-.2072	-4.3088	.0145		-2.3467	-5.8425	.1446	.1443
6	12.420 L	1.1678	-.1873	-4.3046	.0040		-2.5571	-5.6179	.1443	.1445
7	12.420 P	1.1678	-.1873	-4.3046	.1980	.0000000	-2.5571	-5.6179	.1443	.1445
8	12.840 L	1.2484	-.1076	-4.3050	.1853		-3.2686	-4.9175	.1426	.1455

## ZATEZOVACI STAV:

## POCATECNI CELKOVY SOUCET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2558	-.1082	-4.3303	-.1876	.001280	-3.3693	-4.9811	.6223	.5127
2	.420 L	1.1726	-.1899	-4.3278	-.2051		-2.6454	-5.6916	.6892	.4629
3	.420 P	1.1726	-.1899	-4.3278	.0634	.000000	-2.6454	-5.6916	.6892	.4629
1002	1.700 L	1.2268	-.1312	-4.3207	.0397		-3.0662	-5.2674	.2566	.7886
1003	1.700 P	1.8033	-.2222	-6.4486	-.0913		-4.2969	-8.0896	.1425	.5553
1004	1.920 O	1.7828	-.2398	-6.4422	-.0813		-4.1148	-8.2629	.0989	.5886
1006	3.420 O	1.7024	-.3029	-6.4007	-.0148		-3.3989	-8.9326	-.1671	.7906
1008	4.920 O	1.7252	-.2715	-6.3784	.0490		-3.5874	-8.7229	-.3784	.9492
4	6.420 L	1.7693	-.2267	-6.3763	.0000		-3.9671	-8.3420	-.4755	1.0214
5	6.420 P	1.7693	-.2267	-6.3763	.0000	-.010049	-3.9671	-8.3420	-.4755	1.0214
1014	11.140 L	1.7951	-.2165	-6.4042	.0896		-4.3046	-7.9980	.1420	.5623
1015	11.140 P	1.2185	-.1255	-4.2760	-.0414		-3.0740	-5.1758	.2561	.7956
6	12.420 L	1.1582	-.1870	-4.2730	-.0670		-2.6180	-5.6164	.6917	.4691
7	12.420 P	1.1582	-.1870	-4.2730	.2015	.000000	-2.6180	-5.6164	.6917	.4691
8	12.840 L	1.2394	-.1068	-4.2739	.1840		-3.3274	-4.9171	.6261	.5182

VYPOCTOVA ETAPA CISLO 20: OB100D Zacatek etapy T= 90.00  
Konec etapy T= 97.32

## ZATEZOVACI STAV: char

## KRATKODOBE MEZISOU CET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.2569	.2569	.0000	.0000		-2.1012	2.0920	-1.4405	1.0806
1003	1.700 P	.2569	.2569	.0000	.0000		-2.1020	2.0900	-1.4412	1.0793
1004	1.920 O	.3010	.3010	.0000	.0000		-2.4627	2.4466	-1.6886	1.2632
1006	3.420 O	.4930	.4930	.0000	.0000		-4.0243	3.9809	-2.7599	2.0532
1008	4.920 O	.5820	.5820	.0000	.0000		-4.7441	4.6855	-3.2539	2.4157
4	6.420 L	.5900	.5900	.0000	.0000		-4.8092	4.7495	-3.2985	2.4487
5	6.420 P	.5900	.5900	.0000	.0000	.000000	-4.8092	4.7495	-3.2985	2.4487
1014	11.140 L	.1259	.1259	.0000	.0000		-1.0300	1.0242	-.7062	.5289
1015	11.140 P	.1259	.1259	.0000	.0000		-1.0297	1.0252	-.7059	.5296

## ZATEZOVACI STAV: char

## KRATKODOBE + CELK.SOU CET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2558	-.1082	-4.3303	-.1876	.000000	-3.3693	-4.9811	.6223	.5127
2	.420 L	1.1726	-.1899	-4.3278	-.2051		-2.6454	-5.6916	.6892	.4629
3	.420 P	1.1726	-.1899	-4.3278	.0634	.000000	-2.6454	-5.6916	.6892	.4629
1002	1.700 L	1.4837	.1256	-4.3207	.0397		-5.1674	-3.1754	-1.1840	1.8692
1003	1.700 P	2.0602	.0347	-6.4486	-.0913		-6.3989	-5.9996	-1.2987	1.6346
1004	1.920 O	2.0838	.0612	-6.4422	-.0813		-6.5775	-5.8163	-1.5897	1.8517
1006	3.420 O	2.1954	.1901	-6.4007	-.0148		-7.4232	-4.9517	-2.9271	2.8438
1008	4.920 O	2.3072	.3105	-6.3784	.0490		-8.3315	-4.0374	-3.6323	3.3649
4	6.420 L	2.3593	.3633	-6.3763	.0000		-8.7763	-3.5925	-3.7740	3.4701
5	6.420 P	2.3593	.3633	-6.3763	.0000	.000000	-8.7763	-3.5925	-3.7740	3.4701
1014	11.140 L	1.9210	-.0906	-6.4042	.0896		-5.3347	-6.9738	-.5642	1.0911
1015	11.140 P	1.3444	.0004	-4.2760	-.0414		-4.1036	-4.1507	-.4498	1.3251
6	12.420 L	1.1582	-.1870	-4.2730	-.0670		-2.6180	-5.6164	.6917	.4691
7	12.420 P	1.1582	-.1870	-4.2730	.2015	.000000	-2.6180	-5.6164	.6917	.4691
8	12.840 L	1.2394	-.1068	-4.2739	.1840		-3.3274	-4.9171	.6261	.5182

VYPOCTOVA ETAPA CISLO 20: OB100D Zacatek etapy T= 90.00  
Konec etapy T= 97.32

## ZATEZOVACI STAV: cast

## KRATKODOBE MEZISOU CET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1002	1.700 L	.1596	.1596	.0000	.0000		-1.3054	1.2997	-.8950	.6714
1003	1.700 P	.1596	.1596	.0000	.0000		-1.3059	1.2985	-.8954	.6705
1004	1.920 O	.1870	.1870	.0000	.0000		-1.5300	1.5200	-1.0491	.7848
1006	3.420 O	.3060	.3060	.0000	.0000		-2.4978	2.4709	-1.7131	1.2744
1008	4.920 O	.3620	.3620	.0000	.0000		-2.9508	2.9143	-2.0239	1.5025
4	6.420 L	.3690	.3690	.0000	.0000		-3.0078	2.9705	-2.0630	1.5315
5	6.420 P	.3690	.3690	.0000	.0000	.000000	-3.0078	2.9705	-2.0630	1.5315
1014	11.140 L	.0787	.0787	.0000	.0000		-.6442	.6406	-.4417	.3308
1015	11.140 P	.0787	.0787	.0000	.0000		-.6440	.6412	-.4415	.3312

## ZATEZOVACI STAV: cast

## KRATKODOBE + CELK.SOU CET

	Staniceni	Moment Mo	Moment Mt	Nor.sila	Pos.sila	Pruhyb	Zakladni cast		Sprazena cast	
							Nap.horni	Nap.dolni	Nap.horni	Nap.dolni
1	.000 P	1.2558	-.1082	-4.3303	-.1876	.000000	-3.3693	-4.9811	.6223	.5127
2	.420 L	1.1726	-.1899	-4.3278	-.2051		-2.6454	-5.6916	.6892	.4629
3	.420 P	1.1726	-.1899	-4.3278	.0634	.000000	-2.6454	-5.6916	.6892	.4629
1002	1.700 L	1.3864	.0283	-4.3207	.0397		-4.3716	-3.9677	-.6384	1.4599
1003	1.700 P	1.9629	-.0626	-6.4486	-.0913		-5.6028	-6.7911	-.7529	1.2258
1004	1.920 O	1.9698	-.0528	-6.4422	-.0813		-5.6448	-6.7429	-.9501	1.3733
1006	3.420 O	2.0084	.0031	-6.4007	-.0148		-5.8967	-6.4617	-1.8802	2.0650
1008	4.920 O	2.0872	.0905	-6.3784	.0490		-6.5382	-5.8086	-2.4023	2.4517
4	6.420 L	2.1383	.1423	-6.3763	.0000		-6.9749	-5.3715	-2.5384	2.5529
5	6.420 P	2.1383	.1423	-6.3763	.0000	.000000	-6.9749	-5.3715	-2.5384	2.5529
1014	11.140 L	1.8738	-.1377	-6.4042	.0896		-4.9489	-7.3574	-.2997	.8930
1015	11.140 P	1.2972	-.0468	-4.2760	-.0414		-3.7179	-4.5347	-.1854	1.1268
6	12.420 L	1.1582	-.1870	-4.2730	-.0670		-2.6180	-5.6164	.6917	.4691
7	12.420 P	1.1582	-.1870	-4.2730	.2015	.000000	-2.6180	-5.6164	.6917	.4691
8	12.840 L	1.2394	-.1068	-4.2739	.1840		-3.3274	-4.9171	.6261	.5182





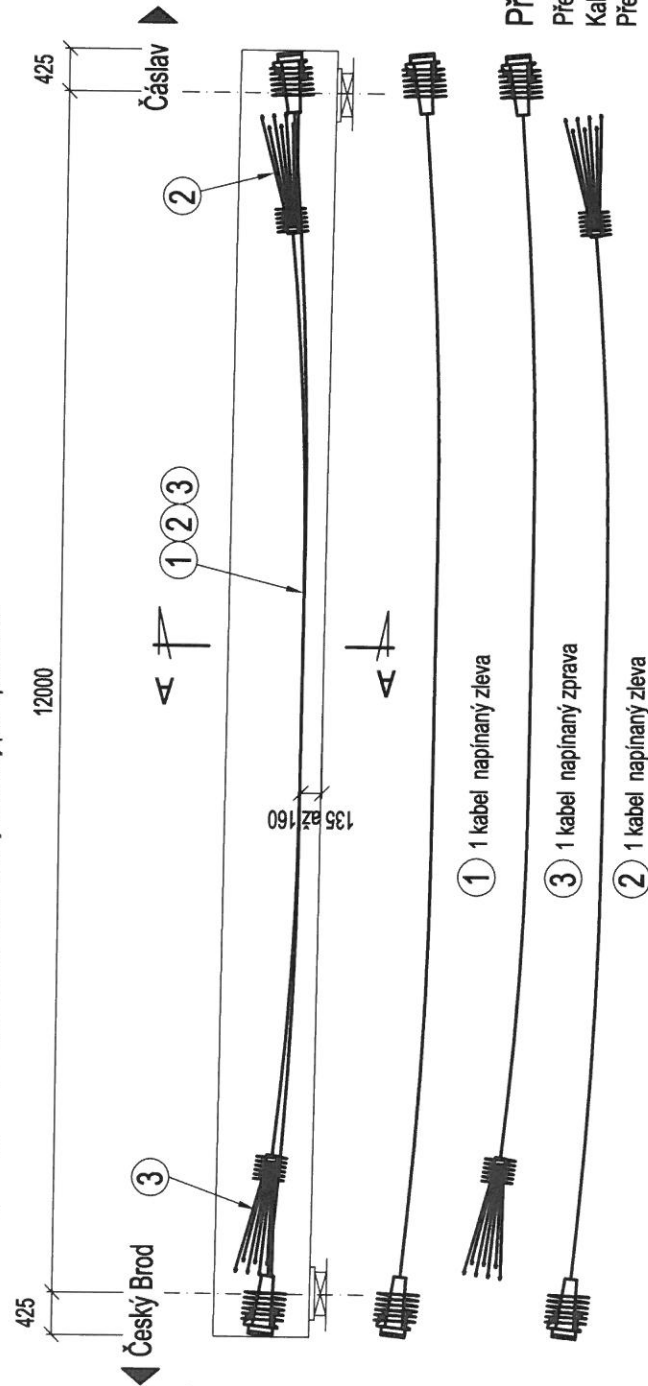
			deska "A"	Deska "B"	Deska "C"	Deska "D"	Deska "E"	Deska "F"	Deska "G"	Deska "H"
<b>1. materiál</b>										
char. pevnost betonu	$f_{ck}$	MPa	45	45	45	45	45	45	45	45
char. pevnost předp. výztuže	$f_{pk}$	MPa	1 770	1 770	1 770	1 770	1 770	1 770	1 770	1 770
char. pevnost betonář. výztuže	$f_{yk}$	MPa	500	500	500	500	500	500	500	500
souč. dlouhodob. účinků	$\alpha_{cc}$		0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85
díličí součinitel betonu	$\gamma_c$		1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
díličí součinitel oceli	$\gamma_s$		1,15	1,15	1,15	1,15	1,15	1,15	1,15	1,15
návrhová pevnost betonu	$f_{cd}$	MPa	25,5	25,5	25,5	25,5	25,5	25,5	25,5	25,5
návrhová pevnost předp. výztuže	$f_{pd}$	MPa	1 539	1 539	1 539	1 539	1 539	1 539	1 539	1 539
návrhová pevnost betonář. výztuže	$f_{yd}$	MPa	435	435	435	435	435	435	435	435
modul pružnosti betonu	$E_c$	GPa	37	37	37	37	37	37	37	37
modul pružnosti bet. výztuže	$E_s$	GPa	200	200	200	200	200	200	200	200
modul pružnosti předp. výztuže	$E_p$	GPa	195	195	195	195	195	195	195	195
<b>2. průřez</b>										
výška průřezu	$h$	mm	519	516	568	616	622	594	574	630
efektivní šířka průřezu	$b_{eff}$	mm	0	0	0	0	0	0	0	0
počet kabelů	kabelů		3	3	3	3	3	3	3	3
počet lan v jednom kabelu	lan		13	12	12	12	12	12	12	12
plocha jednoho lana	$A_{p1}$	mm <sup>2</sup>	150	150	150	150	150	150	150	150
stat. úč. výška T předp. výztuže	$d_{p,av}$	mm	384	381	428	466	472	449	449	470
kotevní napětí	$\sigma_{nap}$	MPa	1 241	1 241	1 241	1 241	1 241	1 241	1 241	1 241
plocha předp. výztuže	$A_p$	mm <sup>2</sup>	5 850	5 400	5 400	5 400	5 400	5 400	5 400	5 400
plocha bet. výztuže	$A_s$	mm <sup>2</sup>	2 000	1 692	1 539	1 539	1 692	1 692	1 692	1 539
stat. úč. výška T bet. výztuže	$d_{s,av}$	mm	436	433	485	533	539	511	491	547
<b>3. deformace</b>										
poměr. přetv. betonu	$\varepsilon_{c,u}$	‰	-3,50	-3,50	-3,50	-3,50	-3,50	-3,50	-3,50	-3,50
změna přetv. předp. výztuže	$\Delta \varepsilon_p$	‰	1,72	2,81	5,18	4,37	4,42	4,03	4,03	4,44
poměr. přetv. předp. výztuže	$\varepsilon_p$	‰	8,09	9,18	11,54	10,74	10,78	10,39	10,39	10,81
napětí v předp. výztuži	$\sigma_p$	MPa	1 539	1 539	1 539	1 539	1 539	1 539	1 539	1 539
poměr. přetv. bet. výztuže	$\varepsilon_s$	‰	2,43	3,68	6,33	5,51	5,54	5,07	4,73	5,74
napětí v bet. výztuži	$\sigma_s$	MPa	435	435	435	435	435	435	435	435
síla v předp. výztuži	$F_{pd}$	kN	9 003	8 311	8 311	8 311	8 311	8 311	8 311	8 311
síla v bet. výztuži	$F_{sd}$	kN	870	736	669	669	736	736	736	669
souč. účinné výšky tlač. oblastí	$\lambda$		0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8
souč. účinné pevnosti	$\eta$		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
plocha betonu	$A_c$	mm <sup>2</sup>	387 182	354 769	352 159	352 159	354 769	354 769	354 769	352 159
výška tlač. betonu	$x$	mm	257	211	173	207	209	209	209	207
<b>4. posouzení</b>										
působící moment	$M_{ed}$	kNm	1 805	1 670	1 715	1 846	2 043	1 985	1 885	1 683
druhot. úč. od předp.	$M_{p,sec}$	kNm	0	0	0	0	0	0	0	0
moment únosnosti	$M_{rd}$	kNm	2 821	2 721	3 262	3 485	3 564	3 352	3 338	3 528
využití			64%	61%	53%	53%	57%	59%	56%	48%





# Předpínací výztuž Podélný řez M 1:75/50

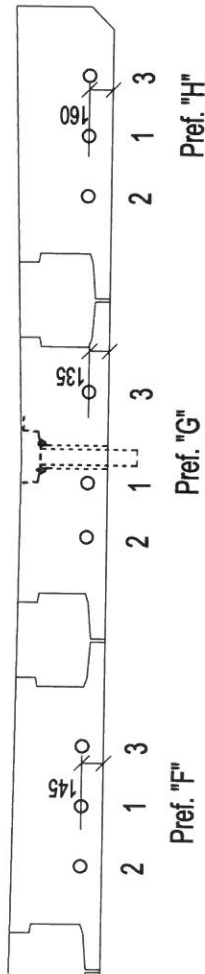
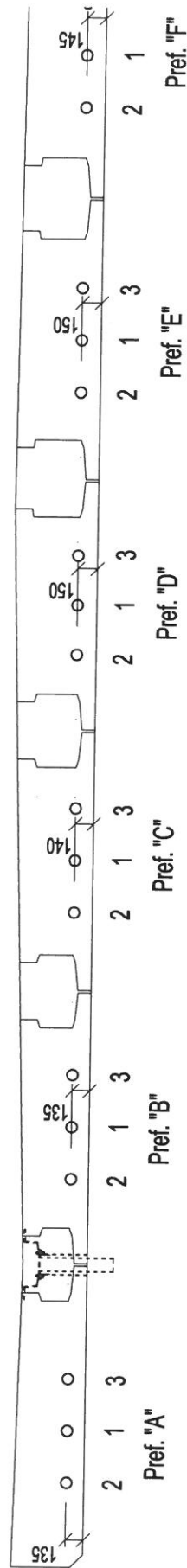
Všechny kabely jsou v půdoryse přímé, počet kabelů je uveden pro 1 prefabrikát



## Předpětí pref. "A" :

Předpínací kabely : 13 lan průměr 15,7 mm 1570/1770 MPa s velmi nízkou relaxací  
Kabelové kanálky průměr 80/85 mm  
Předpínací síla 2,677 MN, předpínací napětí 1368 MPa

## Příčný řez A-A M 1:50



## Předpětí pref. "B", "C", "D", "E", "F", "G", "H" :

Předpínací kabely : 12 lan průměr 15,7 mm 1570/1770 MPa s velmi nízkou relaxací  
Kabelové kanálky průměr 80/85 mm  
Předpínací síla 2,471 MN, předpínací napětí 1368 MPa

-63-

Konec, výtah - Vypracoval Ing. František Konec  
25.6.2019