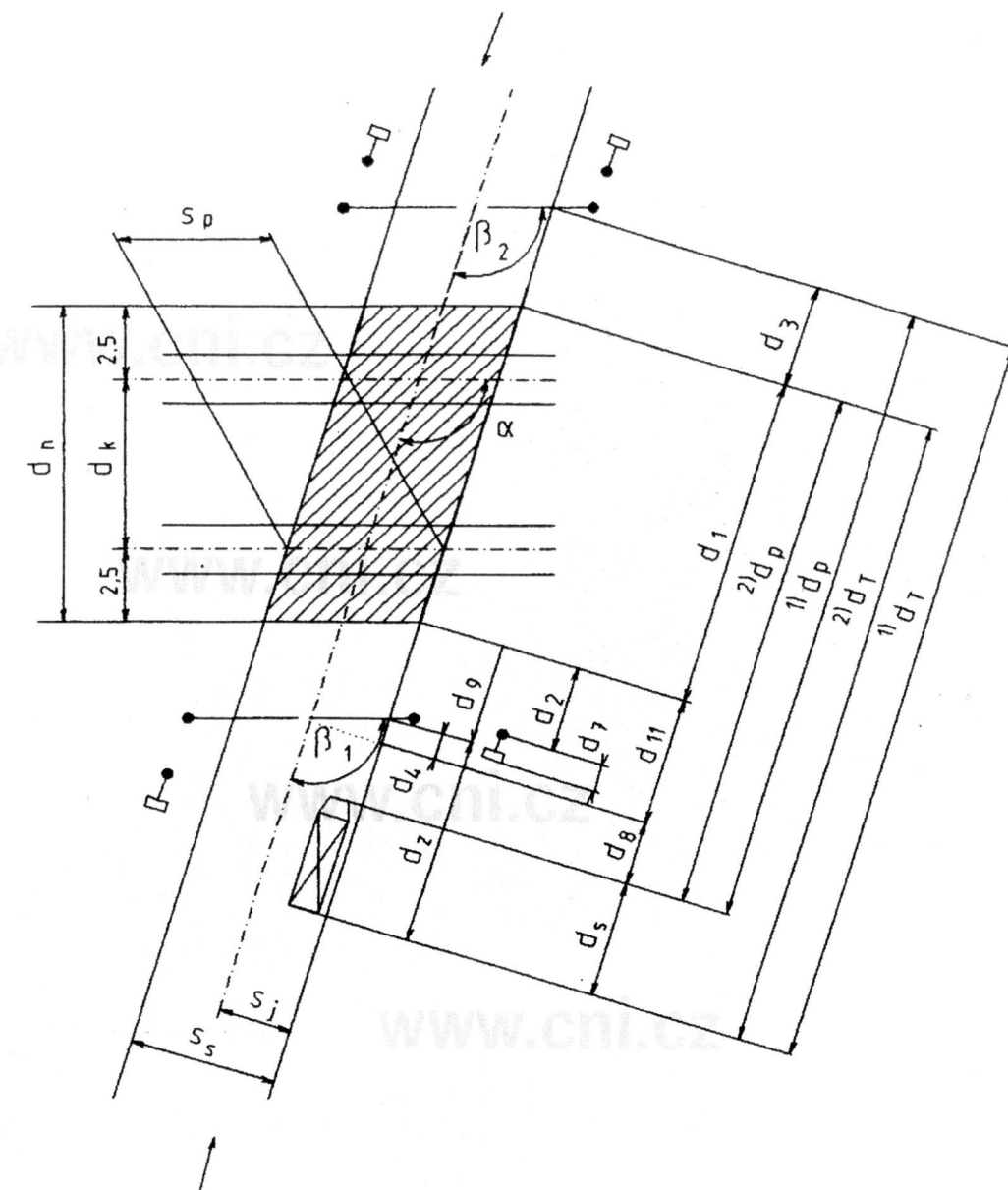
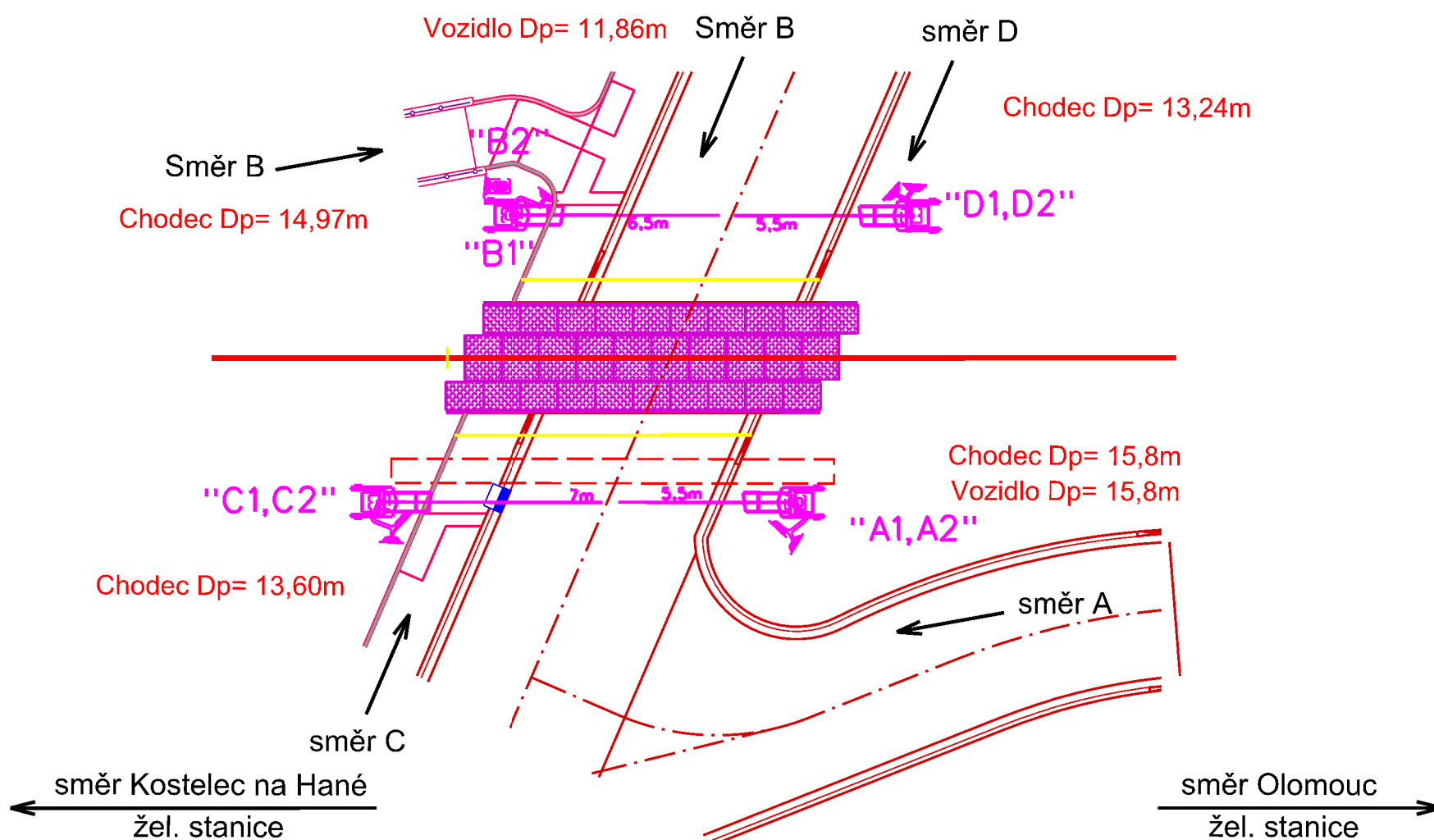


PZS 3ZBI "A" v ev. km 11,627 a sk. km 11,629

P7624 silnice III/4466



Vozidlo	
$d_1 = 5,45 \text{ m}$	$D_1, D_2 = 37,8 \text{ m}$
$d_2 = 6,1$	$D_p = 15,8 \text{ m}$
$d_3 = 2,25 \text{ m}$	$D_s = 22 \text{ m}$
$d_4 = 1,3 \text{ m}$	
$d_5 = 0 \text{ m}$	
$d_6 = 0 \text{ m}$	
$d_7 = 1 \text{ m}$	
$d_8 = 1 \text{ m}$	
$d_9 = 2,34 \text{ m}$	
$d_{10} = 0 \text{ m}$	
$d_{11} = 7,1 \text{ m}$	

Chodec	
$d_1 = 5,45 \text{ m}$	$D_1, D_2 = 18,8 \text{ m}$
$d_2 = 6,1$	$D_p = 15,8 \text{ m}$
$d_3 = 2,25 \text{ m}$	$D_s = 3 \text{ m}$
$d_4 = 1,3 \text{ m}$	
$d_5 = 0 \text{ m}$	
$d_6 = 0 \text{ m}$	
$d_7 = 1 \text{ m}$	
$d_8 = 1 \text{ m}$	
$d_9 = 2,34 \text{ m}$	
$d_{10} = 0 \text{ m}$	
$d_{11} = 7,1 \text{ m}$	

$V_v = 20 \text{ km/h}$
 $V_t = 60 \text{ km/h}$
 $V_s = 5 \text{ km/h}$
 $S_p = 13 \text{ m}$
 $S_j = 3 \text{ m}$
 $S_s = 6 \text{ m}$
 $d_v = 500 \text{ m (470 m)}$
 $\alpha = 113,5^\circ$

$$\begin{aligned}
 t_{zz} &= 27,22 + (27,22 - 19,99) \\
 t_{zz} &= 27,22 + 7,23 \\
 t_{zz} &= 34,45 \text{ s} \\
 t_{zz} &= t_l \\
 t_{zz} &\geq t_l
 \end{aligned}$$

$$\begin{aligned}
 t_z(v_o) &= 19,99 \text{ s} \\
 t_{zz}(v_o) &= 27,22 \text{ s}
 \end{aligned}$$

$$\begin{aligned}
 t_{zz} &= 22,56 + (27,22 - 19,99) \\
 t_{zz} &= 22,56 + 7,23 \\
 t_{zz} &= 29,79 \text{ s}
 \end{aligned}$$

$$\begin{aligned}
 t_l &= 1 + 29,79 + 3 + 6 + 10 + 0 = 49,79 \text{ s} \\
 L_p &= v_t \cdot t_l : 3,6 = 829,833 \text{ m} = 830 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 &\text{Vozidlo } D_p = 15,8 \\
 dz &= d_s + d_8 - d_9 + d_{10} + d_{11} \\
 dz &= 22 + 1 - 2,34 + 0 + 7,1 = 27,76 \text{ m} \\
 t_z(v_o) &= 3,6 \cdot dz \cdot V_s - 1 = \\
 t_z(v_o) &= 3,6 \cdot 27,76 : 5 = 19,9872 = 19,99 \text{ s}
 \end{aligned}$$

$$\begin{aligned}
 &\text{Chodec } D_p = 15,8 \\
 t_v(ch) &= 3,6 \cdot 18,8 : 3 = 22,56 \text{ s} \\
 dz &= d_s + d_8 - d_9 + d_{10} + d_{11} \\
 dz &= 3 + 1 - 2,34 + 0 + 7,1 = 8,76 \text{ m} \\
 t_z(ch) &= 3,6 \cdot dz \cdot V_s - 1 = \\
 t_z(ch) &= 3,6 \cdot 8,76 : 3 = 10,512 \text{ s} \\
 t_z(ch) &= 10,51 \text{ s} \\
 t_{zz}(ch) &= 22,56 \text{ s}
 \end{aligned}$$

M 1:200

9/2020

"Rekonstrukce PZS (P7624) v km 11,627 trati Kostelec na Hané - Olomouc"

PS02 Přejezdové zabezpečovací zařízení v km 11,627

Podklad pro výpočet přejezdu

0104