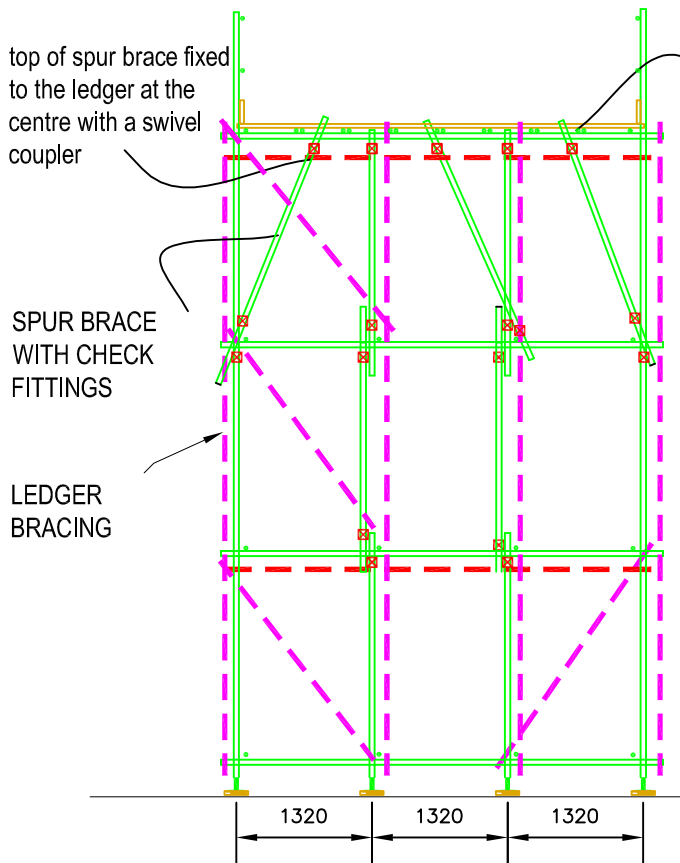


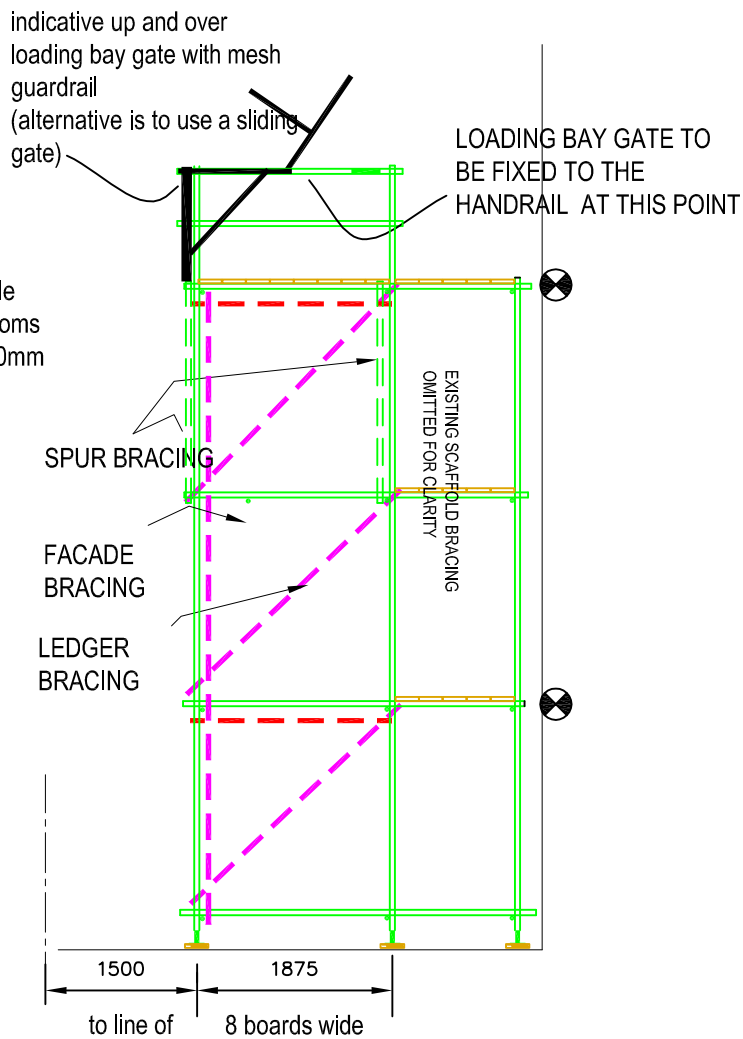
customer	VARIOUS	
Drawn by	DPC	8 BOARDS WIDE PLATFORM type 2
Date	25/04/07	
Scale	1:75	
10kN/m ² LOADING BAY, MAX 5 LIFTS		

THIS PLATFORM IS DESIGNED IN ACCORDANCE WITH TG20:2005

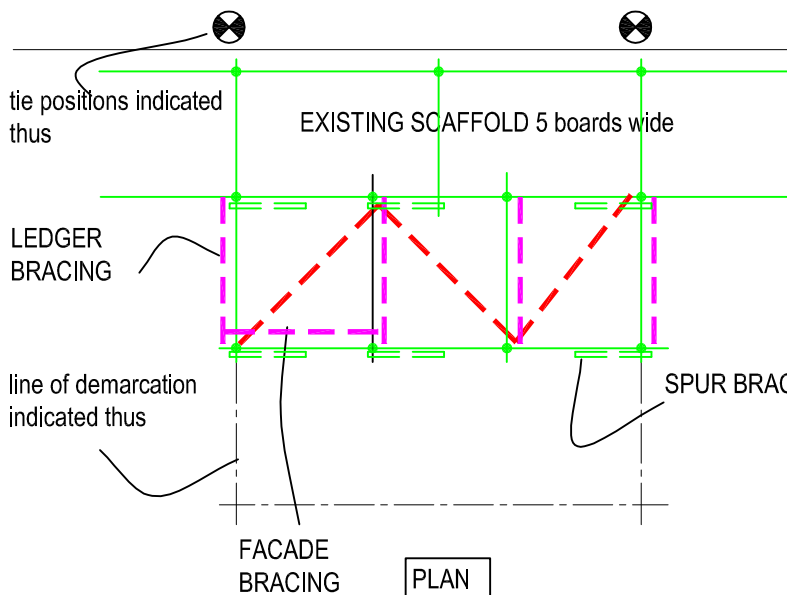
☒ INDICATES CHECK COUPLERS



FRONT ELEVATION



SIDE ELEVATION



PLAN

design for a 10kN/m² loading platform inc 20% impact load
total platform load = 10kN/m² + 0.25kN/m² boards = 10.25kN/m²
check the transoms for a span of 1.85m and the min c/c of 0.45m as stated in tg20
bm in transom = $\frac{10.25 \times 0.45 \times 1.85 \times 1.85}{8} = 1.97\text{kNm}$

permissible = 0.99kNm, therefore use double transoms @450c/c (bm = 0.99 x 2 = 1.98kNm)
check the ledgers for a udl of 10.25 x 0.925m = 9.48kN/m
load from platform say 0.6m x 2.25kN/m² = 1.35
bm = $\frac{10.83\text{kN/m} \times 1.32 \times 1.32}{8} = 2.35\text{kNm} > \text{permiss } 0.99\text{kNm}$

therefore check with a spur brace at centre to reduce the span

bm = $\frac{10.83 \times 0.66 \times 0.66}{8} = 0.58\text{kNm} < 0.99$ therefore Ok

load in spur = $10.83 \times 0.66 / \cos 18 = 7.51\text{kN}$, as brace will probably be fixed with a swivel, with a swl of 5kN, check fitting is required