

43, Old Road  
Whaley Bridge  
High Peak  
Derbyshire  
SK23 7HS  
Tel No 01663 734655  
E-Mail mousehoused@aol.com

customer	VARIOUS	
Drawn by	DPC	8 BOARDS WIDE PLATFORM type 1
Date	25/04/07	
Scale	1:75	
10kn/m2 LOADING BAY, MAX 5 LIFTS		

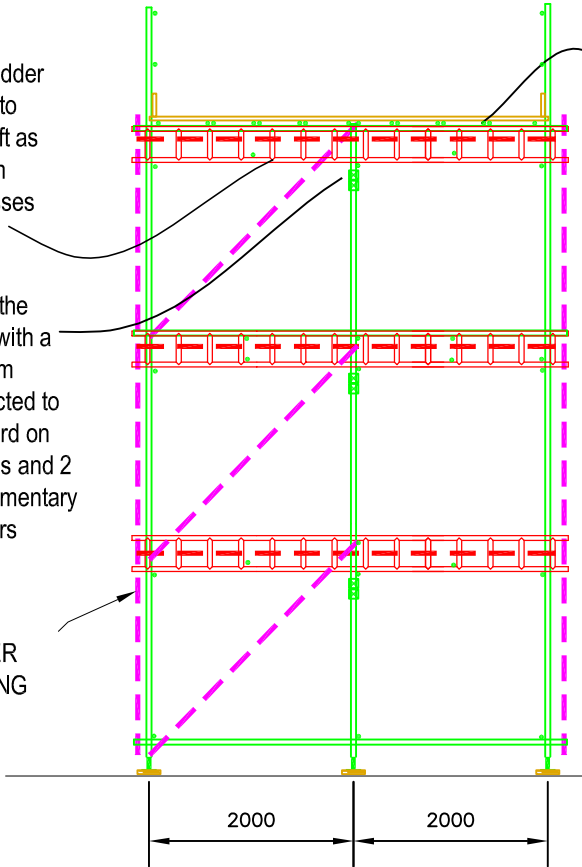
**THIS PLATFORM IS DESIGNED IN ACCORDANCE WITH TG20:2005**

INDICATES CHECK COUPLERS

4.2m ladder beams to every lift as platform progresses

check the beam with a transom connected to standard on doubles and 2 supplementary couplers under

LEDGER BRACING



FRONT ELEVATION

indicative up and over loading bay gate with mesh guardrail (alternative is to use a sliding gate)

LOADING BAY GATE TO BE FIXED TO THE HANDRAIL AT THIS POINT

double transoms @450mm c/c

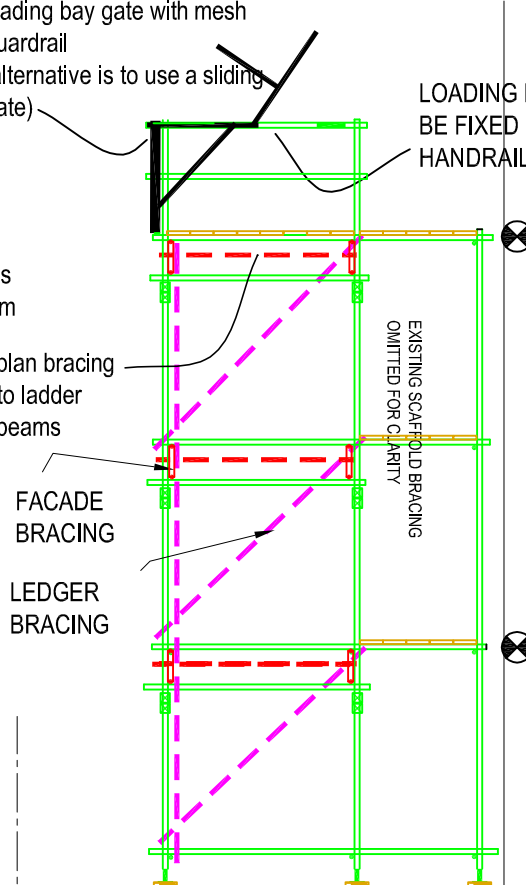
plan bracing to ladder beams

FACADE BRACING

LEDGER BRACING

EXISTING SCAFFOLD BRACING OMITTED FOR CLARITY

1500 1875  
to line of demarcation 8 boards wide



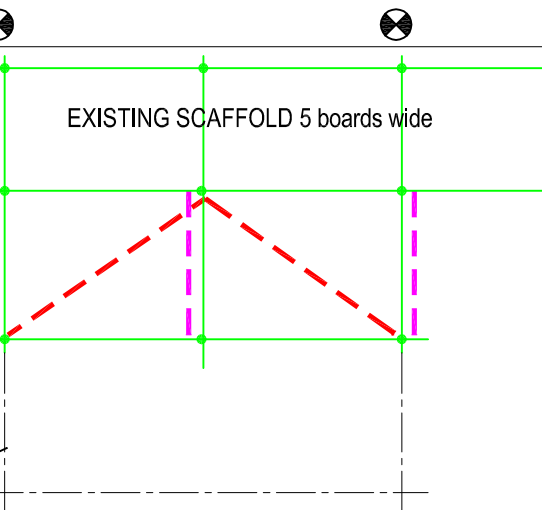
SIDE ELEVATION

tie positions indicated thus

EXISTING SCAFFOLD 5 boards wide

LEDGER BRACING

line of demarcation indicated thus



FACADE BRACING 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 =  $10.25 \times 0.45 \times 1.85 \times 1.85 = 1.97\text{knm}$

permissible = 0.99knm, therefore use double transoms @450c/c (bm = 0.99 x 2 = 1.98knm)

check the beams  
for a udl off the loading platform  $10.25 \times 0.925\text{m} = 9.48\text{kn/m}$   
load from scaffold platform say 0.6m x 2.25kn/m2 = 1.35kn/m  
udl = 10.83kn/m

max load on central leg =  $10.83 \times 2 \times 1.25(\text{cont}) = 27.075\text{kn}$   
no of fittings required at the support =  $27.075 / 6.1 = 5$   
therefore 2 On the beam chords, check with a transom and 2 check fittings  
swl = 30.5

max bm = 5.41knm  
permissible = 13.5knm  
max shear = 13.5kn  
permissible = 18kn