

LU/13/09

PHILIP GOACHER ASSOCIATES

CONSULTING CIVIL AND STRUCTURAL ENGINEERS

PARK HOUSE 122a NEWLAND ROAD WORTHING

WEST SUSSEX BN11 1LB

TEL: (01903) 217723 FAX: (01903) 821987

JOB TITLE

S FITZALAN ROAD

LITTLEHAMPTON

Designed by

JAB

Checked by

Psk

Date

05/08

Job no

06117

Sheet no

SK1

CALCULATIONS

FLAT 3

FIX STRUCKERS
TO WALLS AND
FOOTINGS BELOW
SEE SK2

ENDS OF STRUCKERS
TO ALSO HAVE TWO
COATS OF BITUMEN
PAINT WHERE BUILT
INTO WALLS

LANDING BEAMS

LB1 - 150 x 100 x 5 RHS □
TO SUPPORT STRUCKERS STR
BETWEEN POSTS P1 AND
THE SIDE WALL OF THE
BUILDING.

POSTS

P1 - 178 x 102 UB 19 COLUMNS
TO SUPPORT STRUCKERS AND
LANDING BEAMS LB1
ONTO 1200 LONG x 500
WIDE FOOTINGS - SEE SK2

PADSTONES

ENGINEERED BRICK PADSTONES

THE WORKS
WILL FALL UNDER
THE PARTY WALL
ETC ACT 1996

3 FITZALAN ROAD

'THE COTTAGE'

POSTS P1
SEE SK2
AND SK4

PAD FOUNDATIONS
SEE SK2

REFER TO THE
DESIGNERS
RISK ASSESSMENT

150 x 90 x 24 PFC E TIES
TO RESTRAIN LANDING
BEAMS B1 AND SUPPORT
THE HALF LANDING

ALL STEEL SECTIONS AND FIXINGS
TO BE GALVANISED.

45mm THICK DURAL PLATE TO THE
LANDINGS.

STAIRS TO BE REPLACED

STAIR PLAN
PROPOSED NEW STAIRS
SCALE 1:50

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SK2

CALCULATIONS

10 THICK BASEPLATES BELOW STRINGERS STR WITH 2N° M12 RESIN ANCHERS INTO 300 LONG X 100 WIDE X 150 DEEP CONCRETE PADSTONES BELOW EACH SUPPORT

150 X 100 RHS BETWEEN STRINGERS

LANDING BEAMS - LBI

BALUSTRADING TO ALL STAIRS.
FOR A TYPICAL DETAIL OF
THE BALUSTRADING LEGGER
TO SKETCH SK3

STRINGERS - STR
ARE TO HAVE A
FULL WELD AT THEIR
CRANK.

FIX STRINGERS - STR
TO THE WALL BELOW
WITH BASEPLATES AND
2N° M12 RESIN ANCHERS
AT EACH SUPPORT.

POSTS P1 TO SUPPORT
THE LANDING BEAMS
INTO THE FOUNDATIONS
BELOW

10 THICK BASE PLATES
BELOW STRINGERS STR
WITH 2N° M12 RESIN
ANCHERS AT EACH
SUPPORT

150 X 90 X 24 PFC TIES
TO TRIM BELOW BOTH SIDES
OF THE LANDING

500 WIDE FOOTINGS
WITH THEIR BASE A
MINIMUM OF 1000
BELOW EXTERNAL
GROUND LEVEL.

FORMATION DEPTHS OF NEW FOOTINGS
TBC BY THE BCC ON SITE

500 X 500 PAD
FOOTINGS WITH THEIR
BASE A MINIMUM OF
1000 BELOW EXTERNAL
GROUND LEVEL BELOW
EACH STRINGER

UNLESS SHOWN OTHERWISE ALL CONNECTIONS ARE TO BE
DETAILED BY THE FABRICATOR FOR APPROVAL BY THE
STRUCTURAL ENGINEER AND BCC. MINIMUM 2N° M12 BOLTS
AT EACH CONNECTION

STAIR SIDE ELEVATION
PROPOSED NEW STAIRS
SCALE 1:50

ALL STEEL SECTIONS TO BE GRADE
S275 AND GALVANISED INCLUDING
THE BOLT FIXINGS

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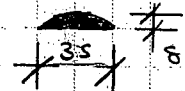
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5K3

CALCULATIONS

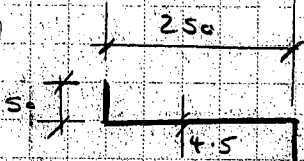
THE NEW STAIRS ARE TO COMPLY WITH BUILDING REGULATIONS
I.E. HEIGHT OF HANDRAILS, LISE AND GOING OF TREADS ETC.
TO BE CONFIRMED AND DETAILED BY THE FABRICATOR FOR APPROVAL
BY THE LOCAL AUTHORITY AND CONTRACT ADMINISTRATOR BEFORE
COMMENCING ANY WORKS.

BS x 8 CONVEX HANDRAIL - HR



MAX 900mm

14 x 14 SOLID □ INT'L
BARS - IN - AT MAX
100 CENTRES



MINIMUM TREAD DIMENSIONS
250 x 4.5 THICK TREADS
GRADE STPS TO BE FIXED
TO THE STRINGERS WITH
6mm GILL WOODS ALL
AROUND OVERLAP PLATES

200 x 10 THICK STRINGER - STR

ALL STEELWORK TO BE GRADE STPS
AND GALVANISED

30 x 30 SOLID
□ STANDARDS -
STD
FIXING OF STDS
TO THE STRINGERS
STR TO BE
DETAILED BY THE
FABRICATOR FOR
APPROVAL BY THE
STRUCT. ENG.

25 x 10 FLAT PLATE FOOTRAIL - FR

PROPOSED BALUSTRADE DETAIL
SCALE 1:20

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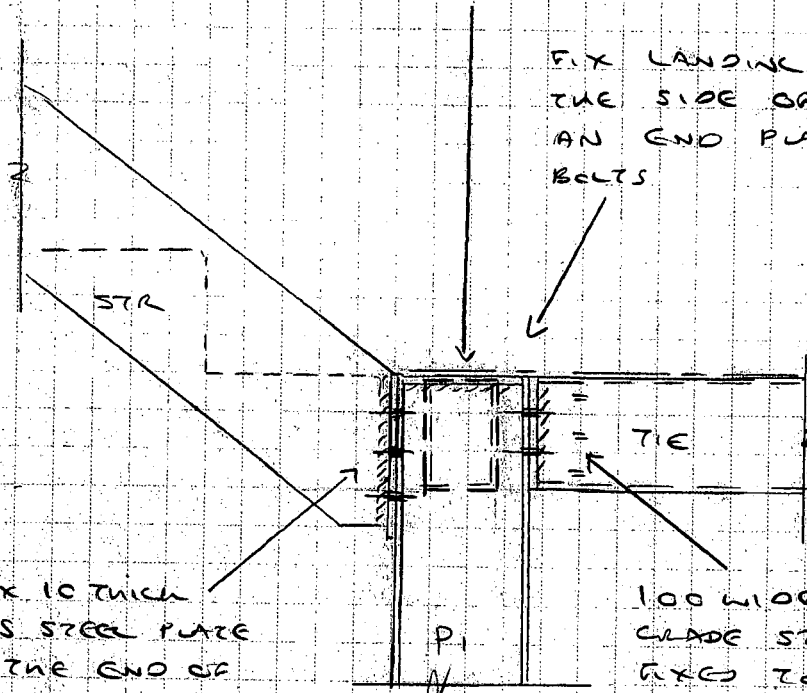
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SK4

CALCULATIONS

100 WIDE x 10 THICK GRADE S275 STEEL
CAP PLATE FIXED TO THE TOP OF POST
P1 WITH 6mm F.W. ALL AROUND

FIX LANDING BEAM LBS1 TO
THE SIDE OF POST P1 WITH
AN END PLATE AND 4mm M12
BELTS



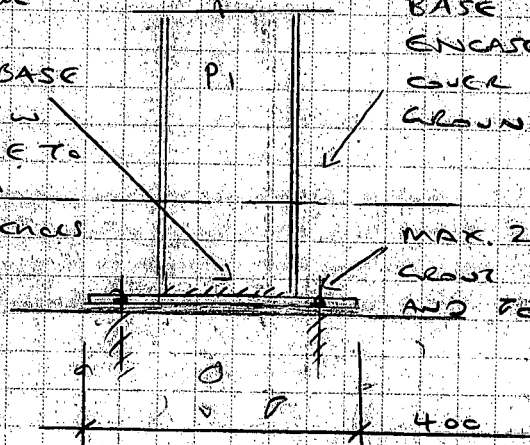
100 WIDE x 10 THICK
GRADE S275 STEEL PLATE
FIXED TO THE END OF
STRUCERS STR WITH
6mm F.W. ALL AROUND
FIX THE PLATE TO POST
P1 WITH 6mm M12 BELTS

100 WIDE x 10 THICK
GRADE S275 STEEL PLATE
FIXED TO THE END OF THE
TIE WITH 6mm F.W. ALL
AROUND. FIX THE PLATE TO
POST P1 WITH 4mm M12
BELTS

BEAMS TO POST CONNECTION

400 x 300 x 10 THICK
GRADE S275 STEEL
BASE PLATE FIXED TO BASE
OF POST WITH 6mm F.W.
ALL AROUND. FIX PLATE TO
FOOTING BELOW WITH
4mm M16 RESIN ANCHORS

BASE OF POST TO BE
ENCASED IN 100 CONCRETE
COVER ALL AROUND BELOW
GROUND



MAX. 20mm NON SHRINK
GROUT BETWEEN BASE PLATE
AND FOOTING BELOW

POST BASE PLATE

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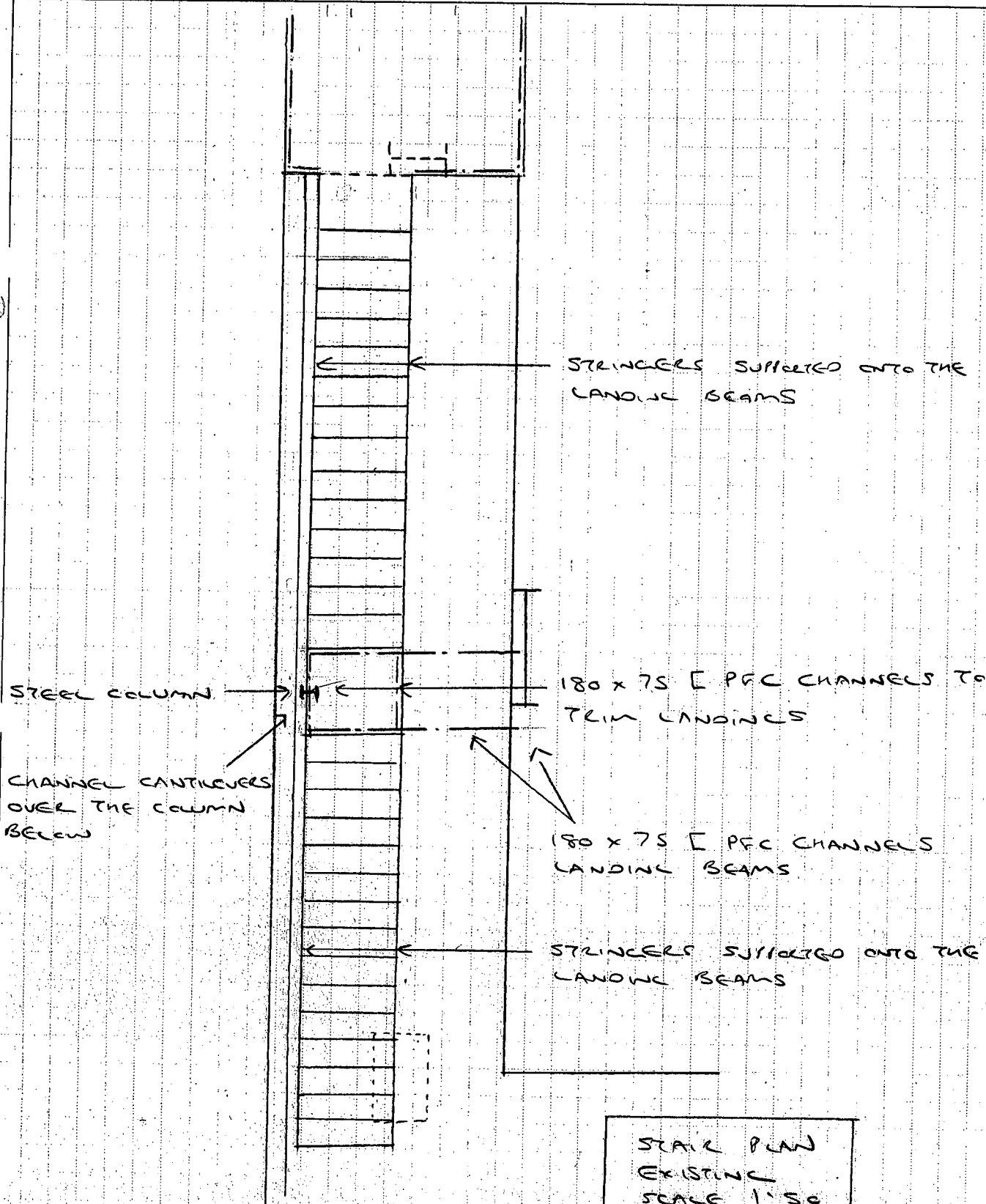
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SKS

CALCULATIONS



FOR INFORMATION PURPOSES ONLY