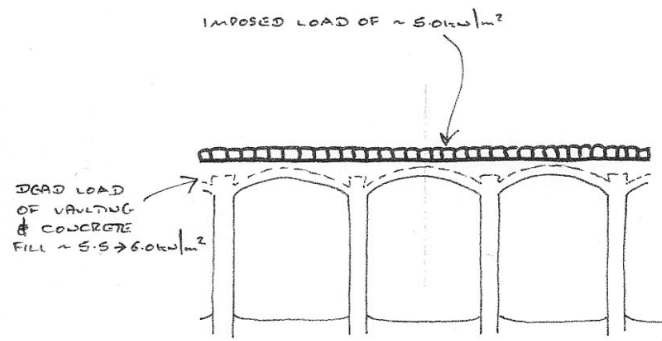
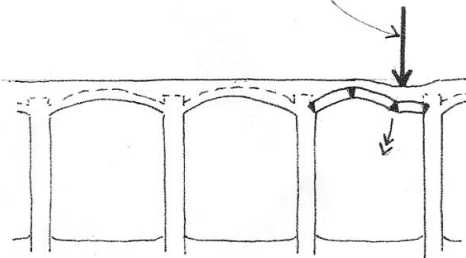




UNIFORM LOAD

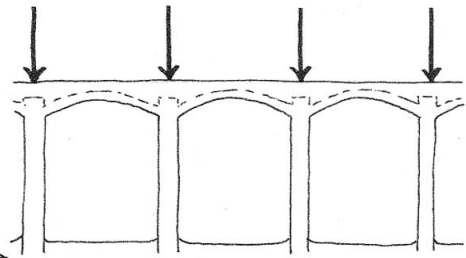
POINT LOADS ABOVE ABOUT 3kN COULD MAKE VAULTED STRUCTURE SUSCEPTIBLE TO COLLAPSE IF PLACED INDISCRIMINATELY ON FLOOR



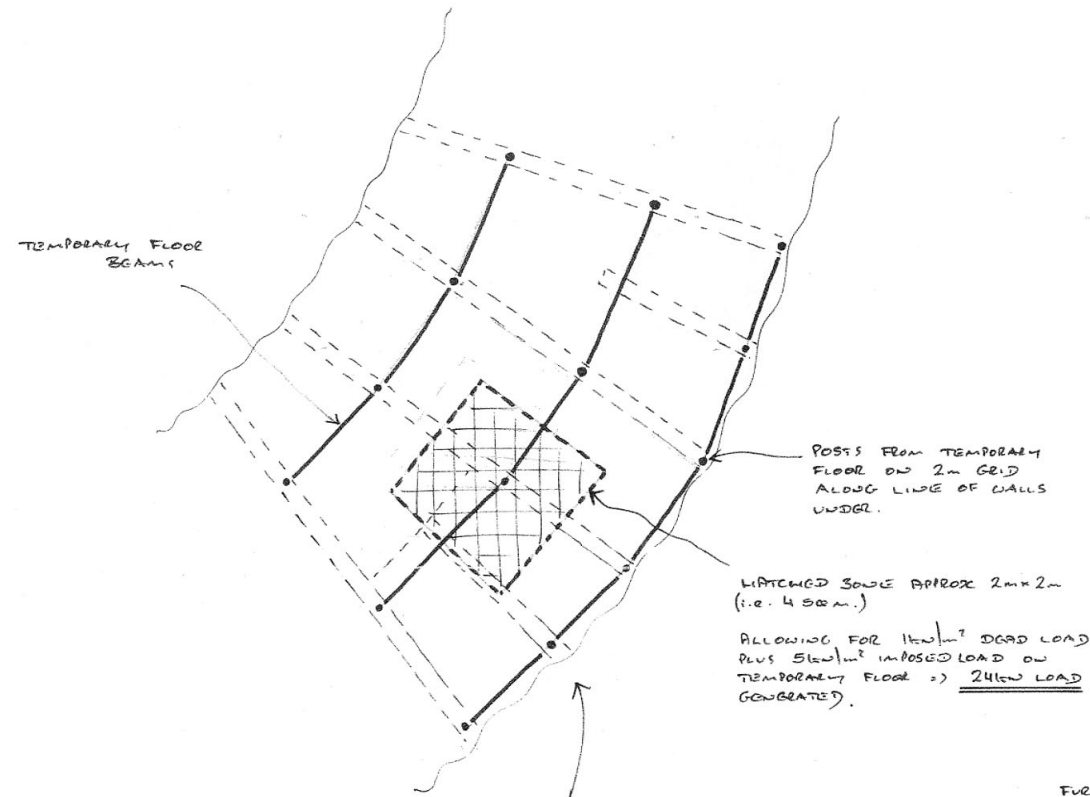
POINT LOAD ANYWHERE

POINT LOADS OF UP TO 16kN SPREAD ON TO FLOOR VIA STEEL SPREADERS PROVEN ON FLOOR. LOADS OF UP TO 30kN UNLIKELY TO OVERSTRESS CONCRETE FILL AND BRICKWORK PROVIDED POINT LOAD HAS ADEQUATE BASE PLATE AND SPREADER. ASSUMES LOAD BEARING WALL UNDER IS 215mm WIDE.

OVERALL LOADING NOT TO EXCEED EQUIVALENT UNIFORM DISTRIBUTED LOAD OF 6kN/m² SO FOUNDATIONS ARE NOT OVERLOADED.

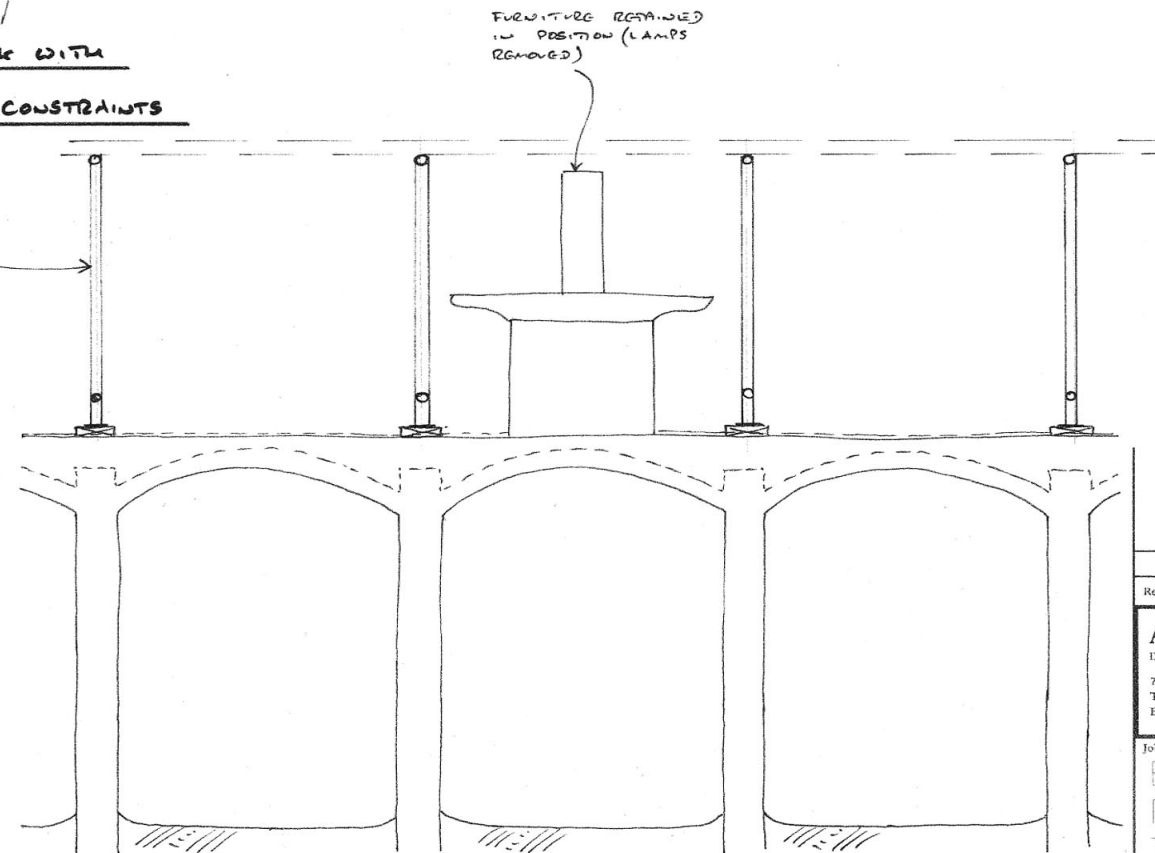


POINT LOAD ON WALL LINES UNDER

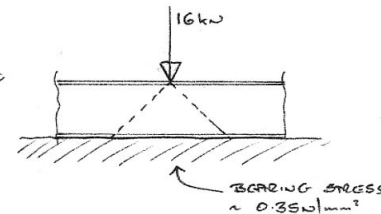


LAYOUT THAT COULD WORK WITH STRUCTURAL CONSTRAINTS

TEMPORARY EXHIBITION STRUCTURE



A-A
(1:20)



ASSUMED 100 SQ BASE PLATE
NOT CLEAR HOW DEEP BRICKWORK IS BELOW FLOOR LEVEL.

TIMBER SPREADER SAY 225 x 37mm DEEP.

LIMIT BEARING STRESS IN CONCRETE TO 2.0kN/mm² TO ALLOW FOR LOCAL AREAS OF POOR COMPACTION.

LIMIT BEARING STRESS IN BRICKWORK TO 0.7kN/mm² ← LIMITING FACTOR.

Revised ISSUED FOR INFORMATION
Rev: Date: Amendment: Chkd:
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Job:
BRITISH MUSEUM
ROUND READING ROOM
TEMPORARY EXHIBITION

Drw. Title:
ACCEPTABLE FLOOR
LOADING ON EXISTING
FLOOR

Scale: (original - A1) Date: Drawn: T
AS SHOWN **APR '06** Checked:

Drw. No. 699/301/13 Rev.