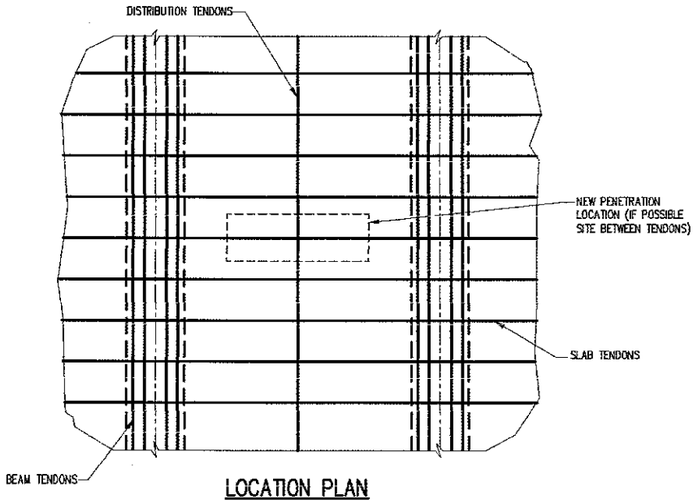
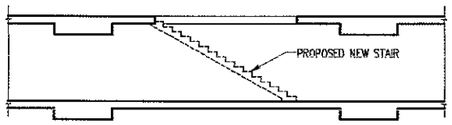


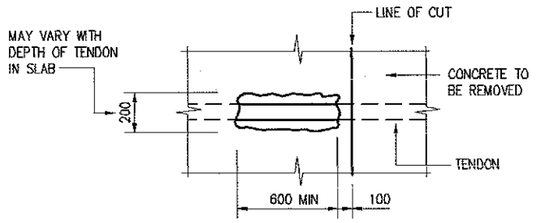
LOCATION PLAN



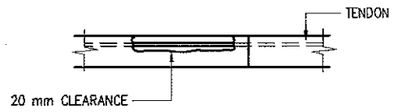
SECTION

DIAGRAM FOR STEP 2

1. INSTALL ANY BACKPROPPING AS REQUIRED BY THE STRUCTURAL ENGINEER.
2. MARK OUT THE CABLE POSITIONS ON THE TOP SURFACE OF THE SLAB.
3. BREAK OUT CONCRETE TO FORM A POCKET AS SHOWN BELOW:-



PLAN



ELEVATION

4. REMOVE THE DUCT ALONG THE 600 mm LENGTH.
5. CHIP AWAY ALL GROUT AROUND THE INDIVIDUAL STRANDS WHILST ENSURING THAT THE STRANDS ARE NOT DAMAGED.
6. INFILL THE POCKET WITH AN EPOXY MORTAR AND ALLOWED TO CURE.
7. CUT THE TENDON AT THE 'LINE OF CUT' AND REMOVE THE CONCRETE.

TENDON TERMINATION DETAIL

STEP 1.

THE STRUCTURAL ENGINEER CHECKS THE PROPOSED PENETRATION LOCATION AND ADVISES ANY ADDITIONAL WORK REQUIRED, SUCH AS TRIMMER BEAMS, AS IS THE CASE FOR REINFORCED CONCRETE.

WHERE POSSIBLE THE PENETRATION SHOULD BE LOCATED TO MINIMISE THE EFFECT ON THE SURROUNDING STRUCTURE.

WITH GOOD PLANNING IT MAY WELL BE POSSIBLE TO LOCATE THE PENETRATION TO MISS ANY POST-TENSIONING TENDONS.

STEP 2.

IN THIS INSTANCE WE WILL LOCATE A PROPOSED STAIR OPENING OF APPROXIMATELY 4.5m LONG BY 1.5m WIDE IN THE MIDDLE THIRD OF THE SLAB SPAN.

STEP 3.

THE PROPOSED PENETRATION LOCATION IS MARKED ON THE TOP SURFACE OF THE SLAB.

THE TENDONS IN THE VICINITY OF THE PENETRATION ARE LOCATED. THIS IS DONE BY LOOKING AT THE SOFFIT OF THE SLAB FOR THE STAPLES USED TO SECURE THE DUCTS TO THE FORMWORK.

AT TIMES, THE SOFFITS CAN BE MARKED WITH TENDON LOCATIONS IMMEDIATELY AFTER FORMWORK STRIPPING TO SIMPLIFY THIS TASK.

STEP 4.

TENDONS CROSSING THE PROPOSED PENETRATION NEED TO BE TERMINATED IN ORDER TO PROVIDE FULL CORROSION PROTECTION, AS DO ANY REINFORCING BARS CROSSING THE PENETRATION.

A TYPICAL TERMINATION DETAIL USED SUCCESSFULLY MANY TIMES IS SHOWN ADJACENT.

STEP 5.

THE CONCRETE WITHIN THE ZONE BORDERED BY THE PROPOSED PENETRATION CAN NOW BE REMOVED IN THE NORMAL MANNER.

THIS PROCEDURE IS OFTEN EASIER THAN FOR REINFORCED CONCRETE DUE TO THE LACK OF CONVENTIONAL REINFORCEMENT THAT IS REQUIRED TO BE CUT.

STEP 6.

INSTALL PREFABRICATED STEEL STAIRS. IF INSITU CONCRETE STAIRS ARE REQUIRED IT WILL BE NECESSARY TO EPOXY STARTER REINFORCEMENT INTO THE EXISTING SLAB, AS IS THE CASE FOR REINFORCED CONCRETE.

INSTALL HANDRAILS AROUND STAIR OPENING.

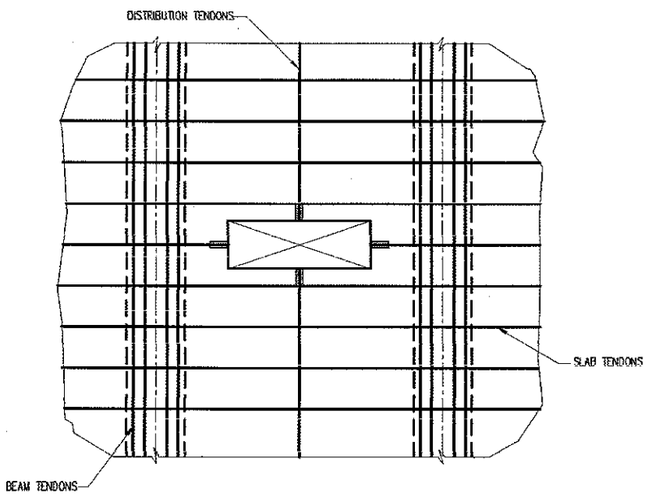


DIAGRAM FOR STEP 5

TERMINATED TENDON.
(REFER TO DETAILED PROCEDURE)

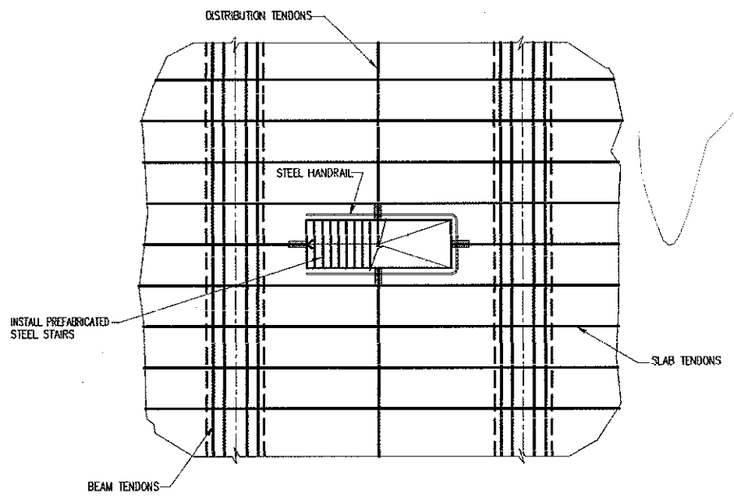


DIAGRAM FOR STEP 6

Rev	Date	Drawn	Checked	Description
0	19-2-98	A.M.B.		ISSUED FOR TENDER PURPOSES ONLY

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Project:
POST-TENSIONING
STANDARD DETAILS
FOR CONSTRUCTION

Title:
ADDITION OF A STAIR LINKING TWO POST-TENSIONED FLOORS

1st Issue Date:	19-2-98	Scale:	1:100
Designed:	E.J.C.	Authorised:	
Drawn:	A.M.B.	Date:	

Drawing No. CS-002 Rev 0

AUSTRESS FREYSSINET PLOT DATE : 30-04-1998 17:18