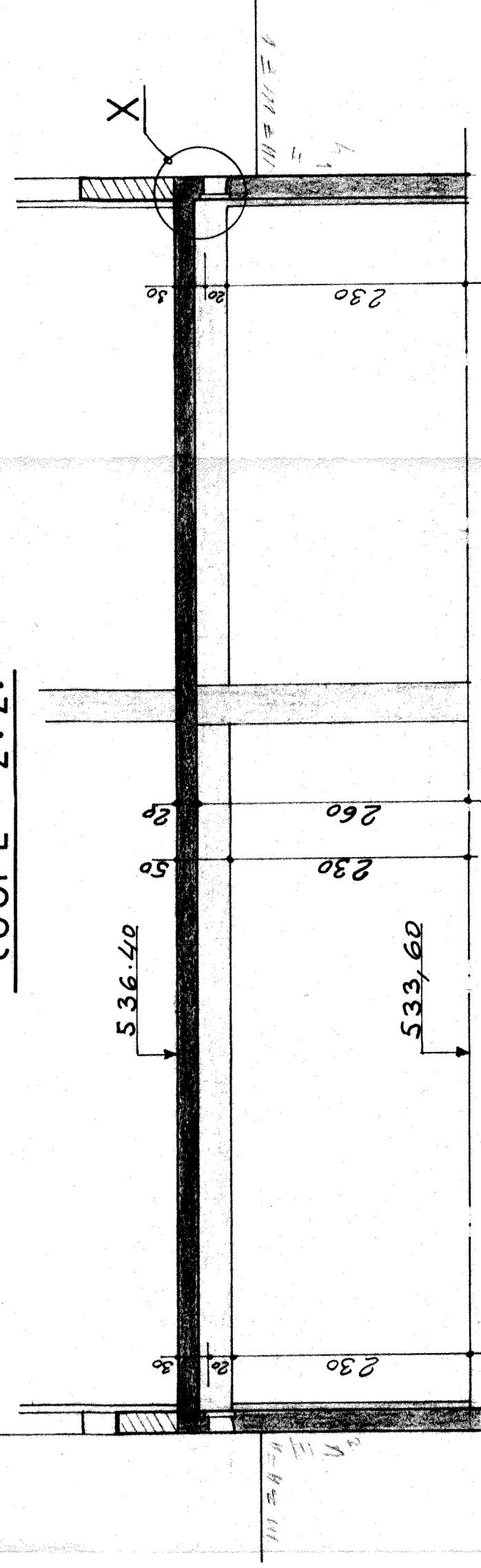
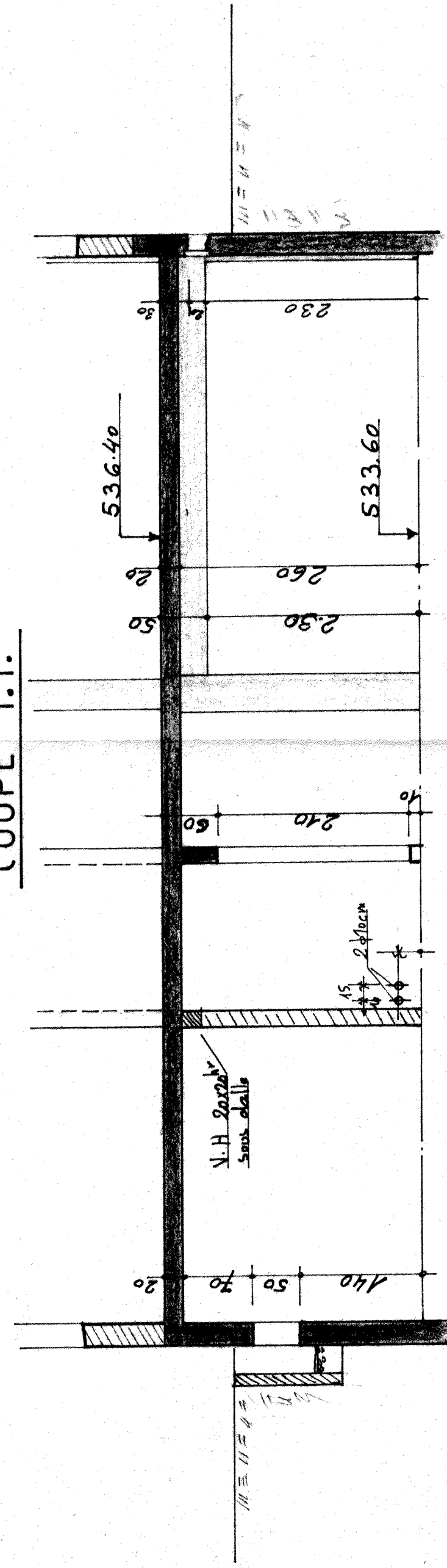


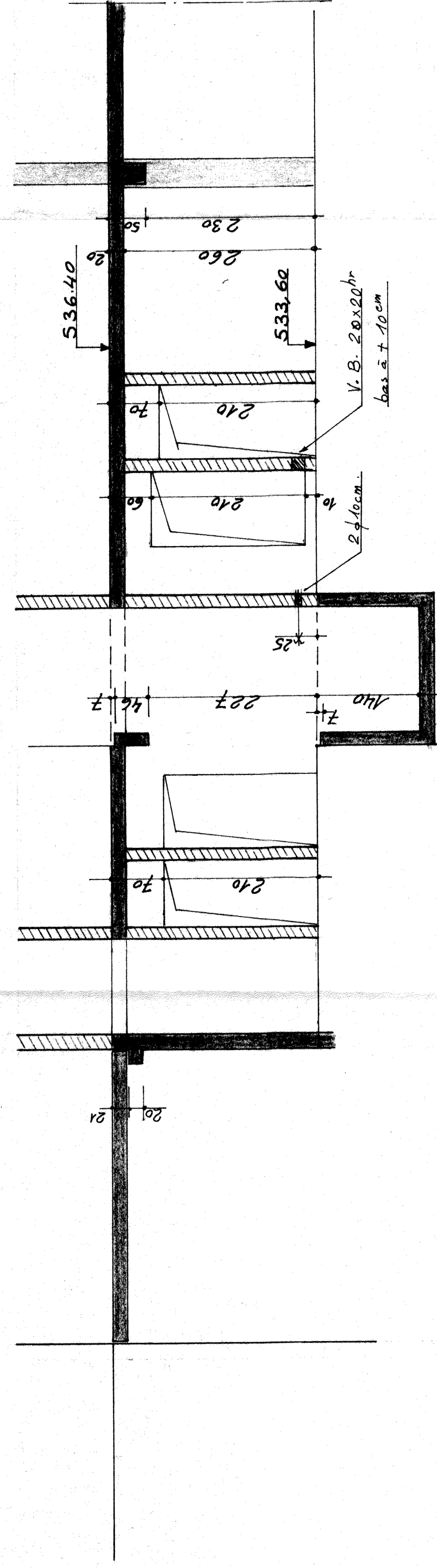
détail X



COUPE 1.1.



COUPE 3.3.



**ARCHITECTE :**

**STRUCTURE**  
J. & P. DEVILLE  
19 rue des Acieries  
42000 ST ETIENNE  
TEL 77-79-72-20  
FAX 77-93-73-80

ENTREP. : B RUNEL

UNIVERSITÉ J. MONNET  
ADMINISTRATION LETTRES

## PLANCHER HAUT DU SOUS SOL

COFFRAGE

SURCHARGES:  $250 \text{ kg/m}^2$   
DOSAGE BETON ARME  $350 \text{ kg/m}^3$   $f_{c,28} = 25 \text{ MPa}$

ARIATURES: NA FeE 400 Mpa  
TS Fe 500 Mpa  
DOUX FeE 240 f

ECHELLES: 0.02 - 0.05

SAINT-ETIENNE LE: 13-01-92

PLAN N° 2733 - 152