



ÜÇ HÜCRELİ TRANSFORMATÖR BİNASI PROJESİ

İÇİNDEKİLER

	PLÂN No.
ELEKTRİK KISMI	1/5
İNŞAAT KISMI	1/6
TAFSİLÂTLAR	1/9

ENERJİ VE TABİİ KAYNAKLAR BAKANLIĞI:

İLLER BANKASI:

45 KURUŞLUK
PUL

İLLER BANKASI

..... Bölge Müdürlüğü.

MÜTEAHHİT:

75 KURUŞLUK
PUL

ADI VE SOYADI:

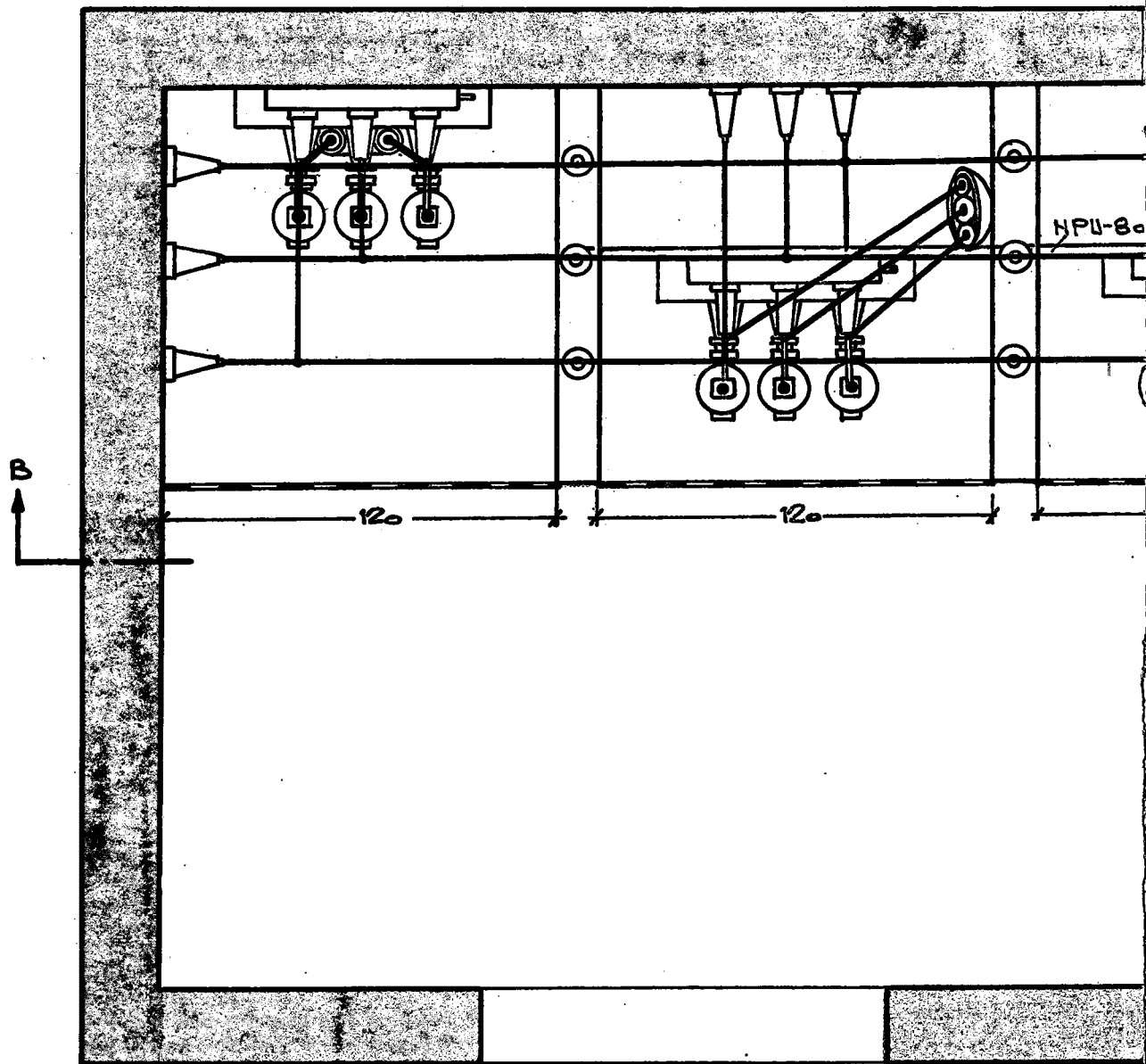
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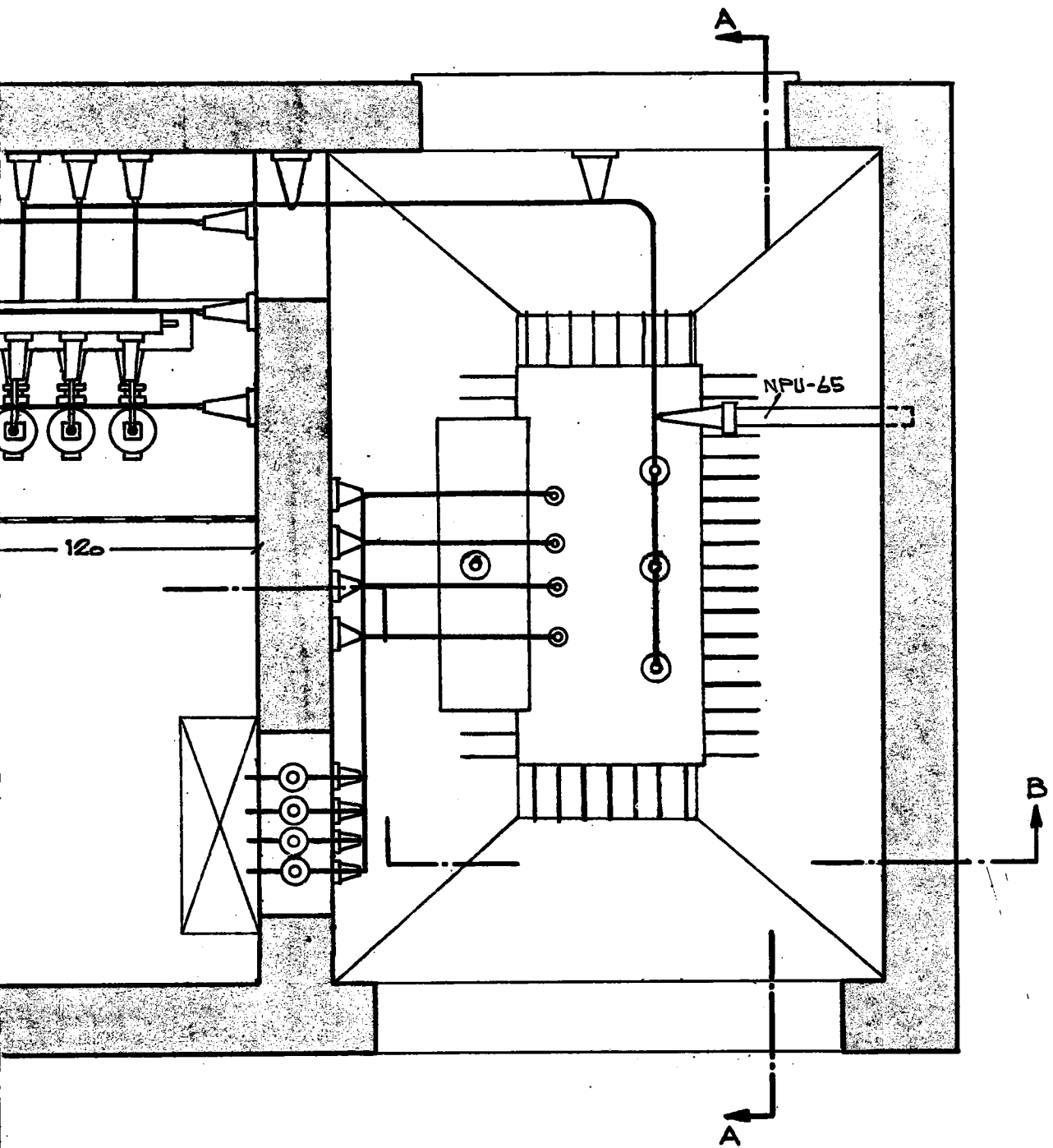
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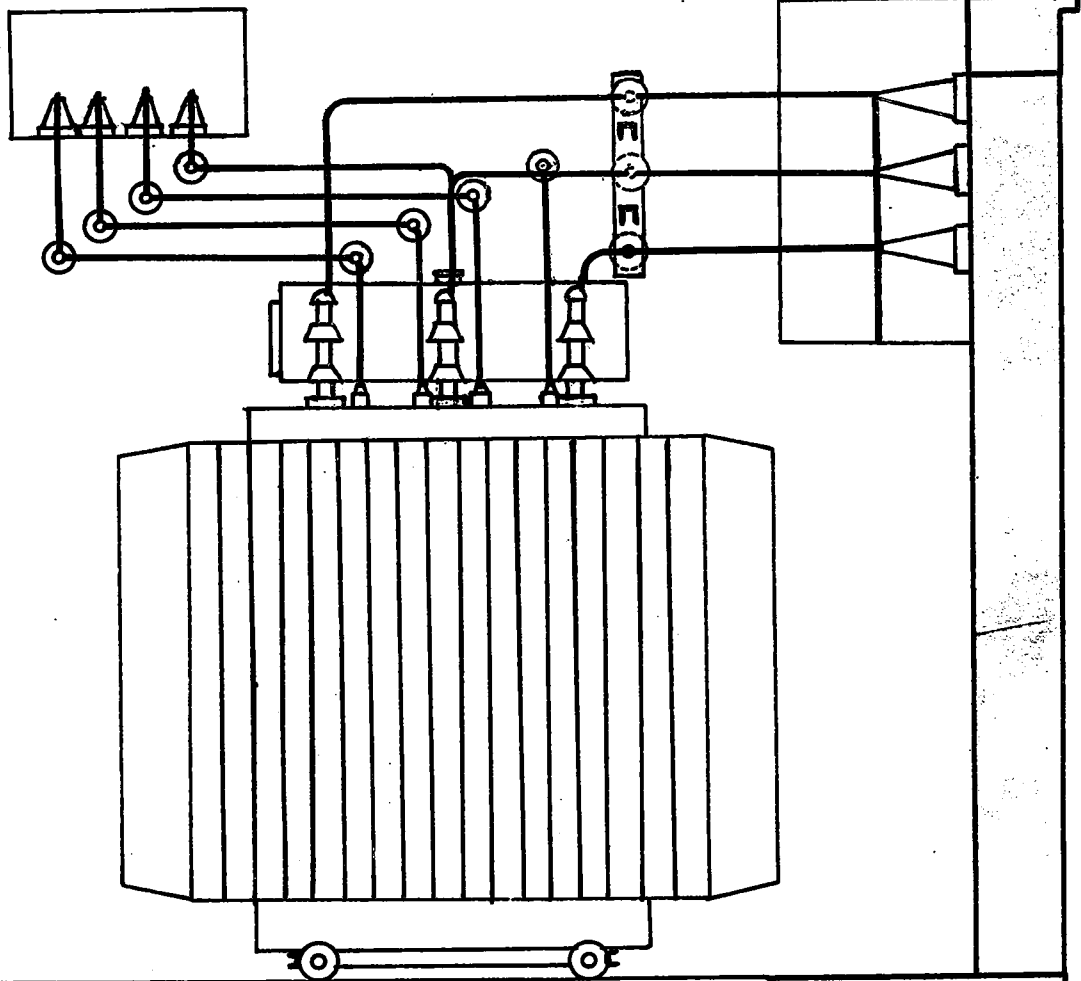
ENERJİ VE TABİİ KAYNAKLAR BAKANLIĞININ
16-3-964 TARİH VE 2903 SAYILI KARARLA
TASTIKLI PROJENİN ASLINA UYGUNLUĞU



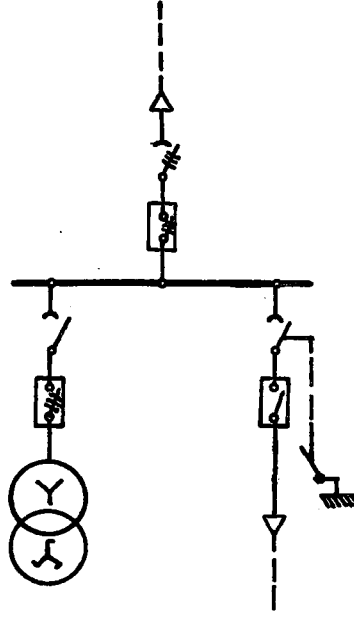
DEĞİŞİKLİK			TARİH	İMZA
A)				
B)				
15_6/0.4 KV. TEVZİ TRAFO POSTALARI (600 KVA YA KADAR) ÜÇ HÜCRELİ TRAFO BİNASI TİPİ (ELEKTRİK KISMI)			ÖLÇEK: 1/20	
			T.P.1/5 NO.LU PLÂN İPTÂL EDİLDİ	
			NO.LU PLÂN İPTÂL EDİLDİ	
PROJEYİ YAPANIN DİPLO. NO, ÜNVANI, ADI SOYADI	İMZA	TARİH	İLLER BANKASI ETÜD VE PROJE MÜDÜRLÜĞÜ	
Y.MÜH. AYDIN TACAL		24.10.13	PLÂN NO: T.P. 1/5	
ÇİZEN: GÖRZ ÖZVEKEN			ARŞİV KAYIT NO:	





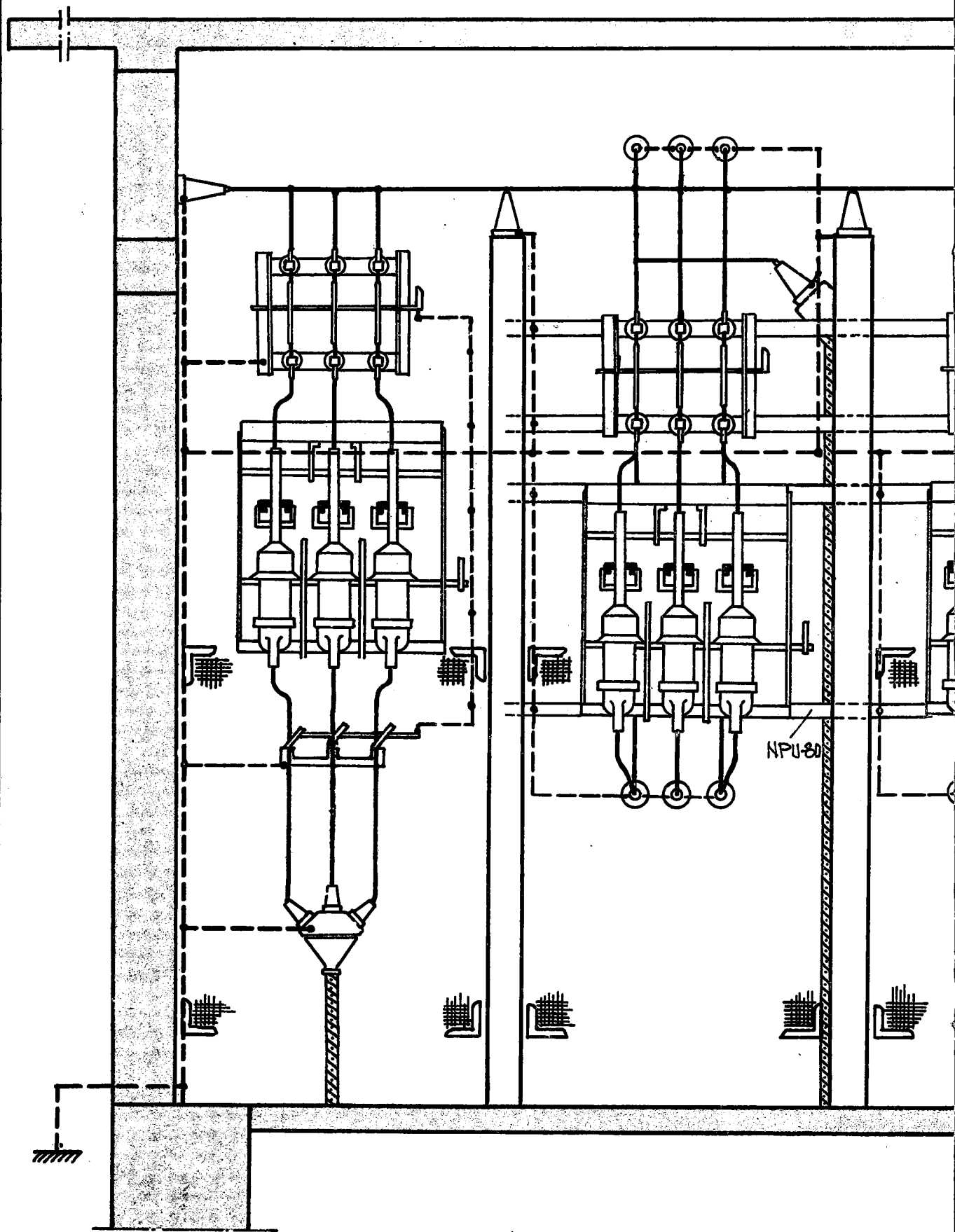


A-A KESİTİ

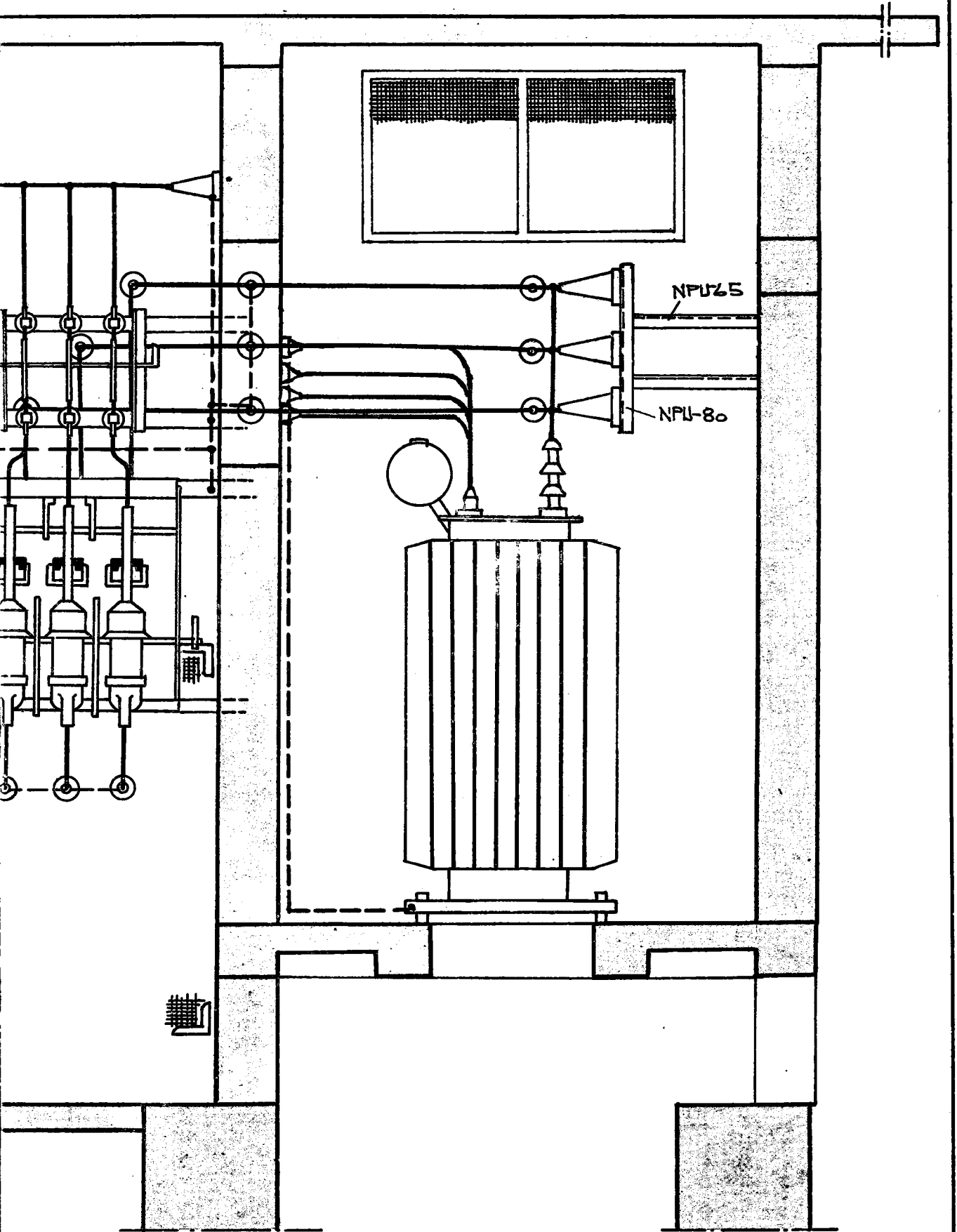


NOT: YUKARIDAKİ ŞALT ŞEMASI TESİSİN ÖZEL DURUMLARI-
NA VE CİHAZLARINA GÖRE DEĞİŞTİRİLECEKTİR.
BU ŞEMA YERLEŞTİRMEYE ESAS OLUP NÜMUNE OLARAK
ÇİZİLMİŞTİR.

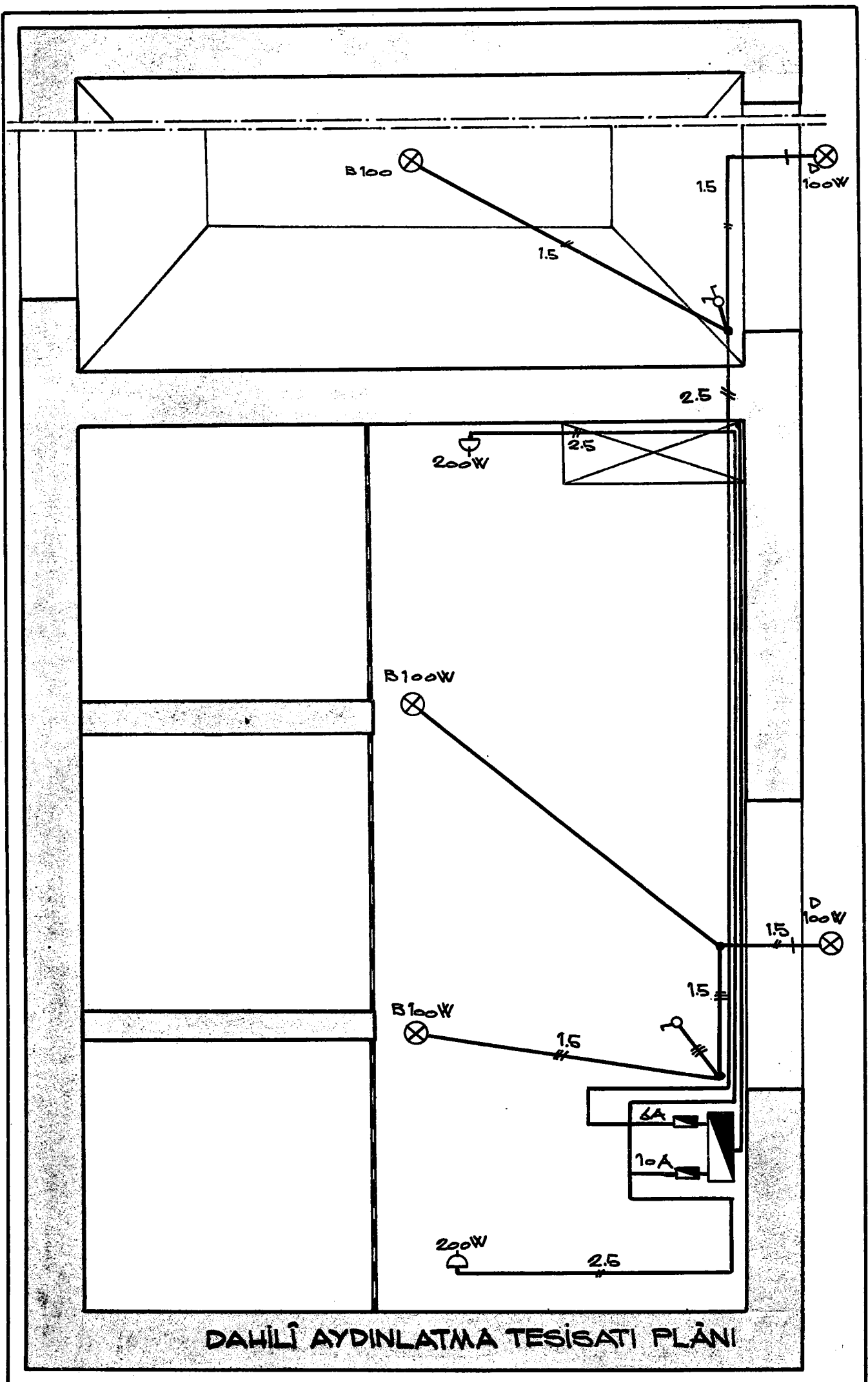
ŞALT ŞEMASI



B-B KESIT



NOT: TRAFÖ TEKERLEK AÇIKLIĞINA GÖRE İCABINDA
LÂMBALAR ÜZERİNE ENLEME VE BOYUNA PROFİL
DEMİRİ KONARAK TRAFÖ YERLEŞTİRİLECEKTİR.



SIRA NO:	CİNSİ	MİKTARI	BİRİMİ
1)	TRANSFORMATÖR	1	ADET
2)	DISJONKTÖR	3	"
3)	TRİFAZE SEKSİYONER	3	"
4)	TOPRAKLAMALI SEKSİYONER	1	"
5)	Y.G. MESNET İZOLATÖRÜ	30	"
6)	A.G. " "	8	"
7)	Y.G. BARI	34	m
8)	A.G. "	12	"
9)	Y.G. KABLO BAŞLIĞI	2	ADET
10)	TEL KAFES KAPİ	7.25	m ²
11)	TOPRAKLAMA TERTİBATI	2	ADET
12)	TEVZİ TABLOSU	1	"
13)	PROFİL DEMİRİ NPU 8	80	kg.
14)	" " NPU 2.5	14	"
15)	SIVA ÜSTÜ MERMER TABLO (2 SİGORTALI)	1	ADET
16)	NORMÂL KOMİTATÖR SORTİSİ	2	"
17)	PARALEL " "	1	"
18)	PRİZ SORTİSİ	2	"

METRAJ

THE [illegible] OF [illegible]

BY [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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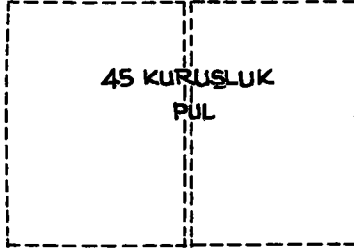
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THE [illegible] OF [illegible]

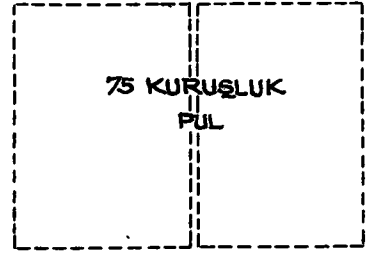
ENERJİ VE TABİİ KAYNAKLAR
BAKANLIĞI :

İLLER BANKASI:



İLLER BANKASI
.....Bölge Müdürlüğü:

MÜTEAHHİT :

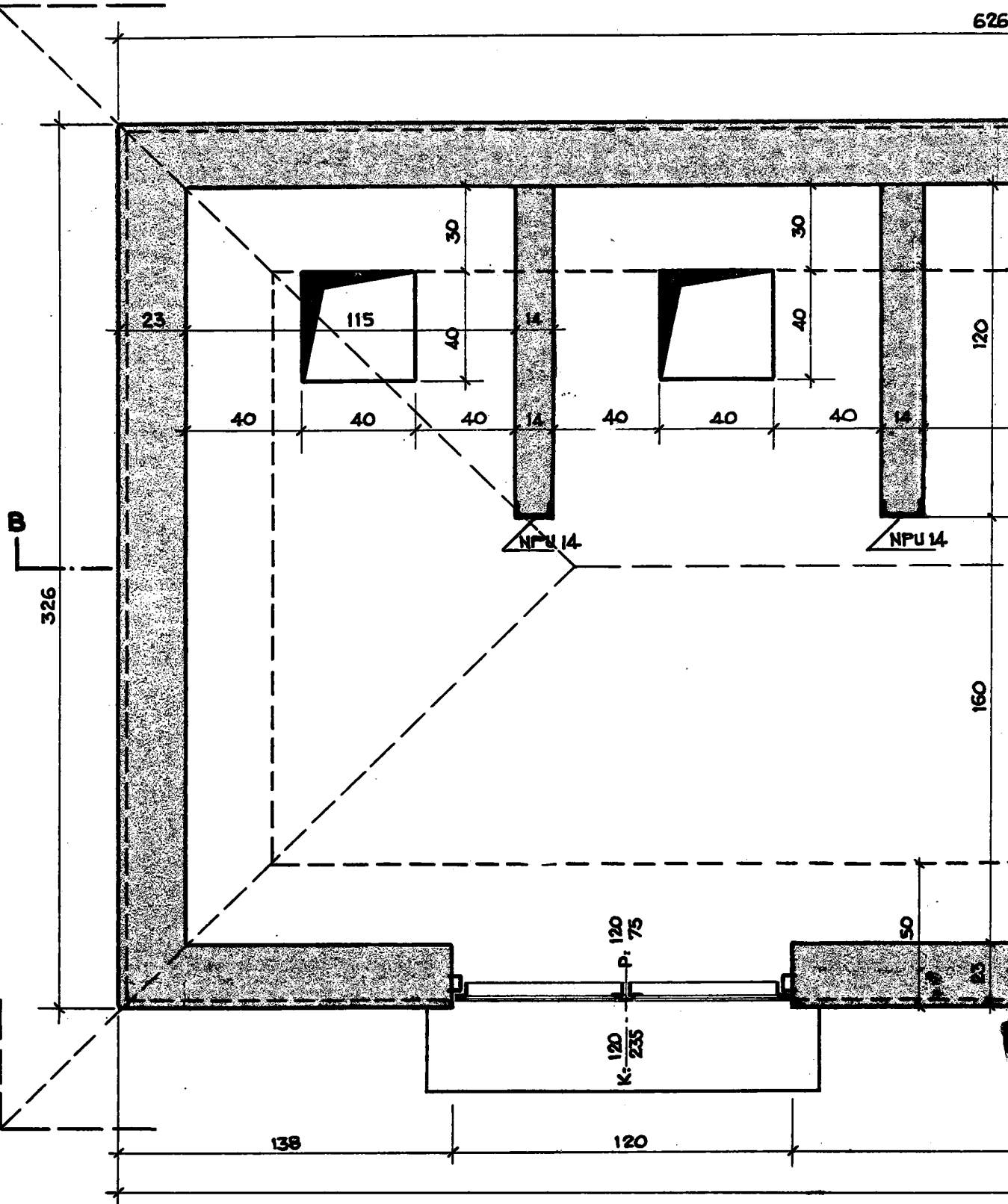


ADI VE SOYADI:.....
DİPLOMA NO. :.....
ODA NO. :.....

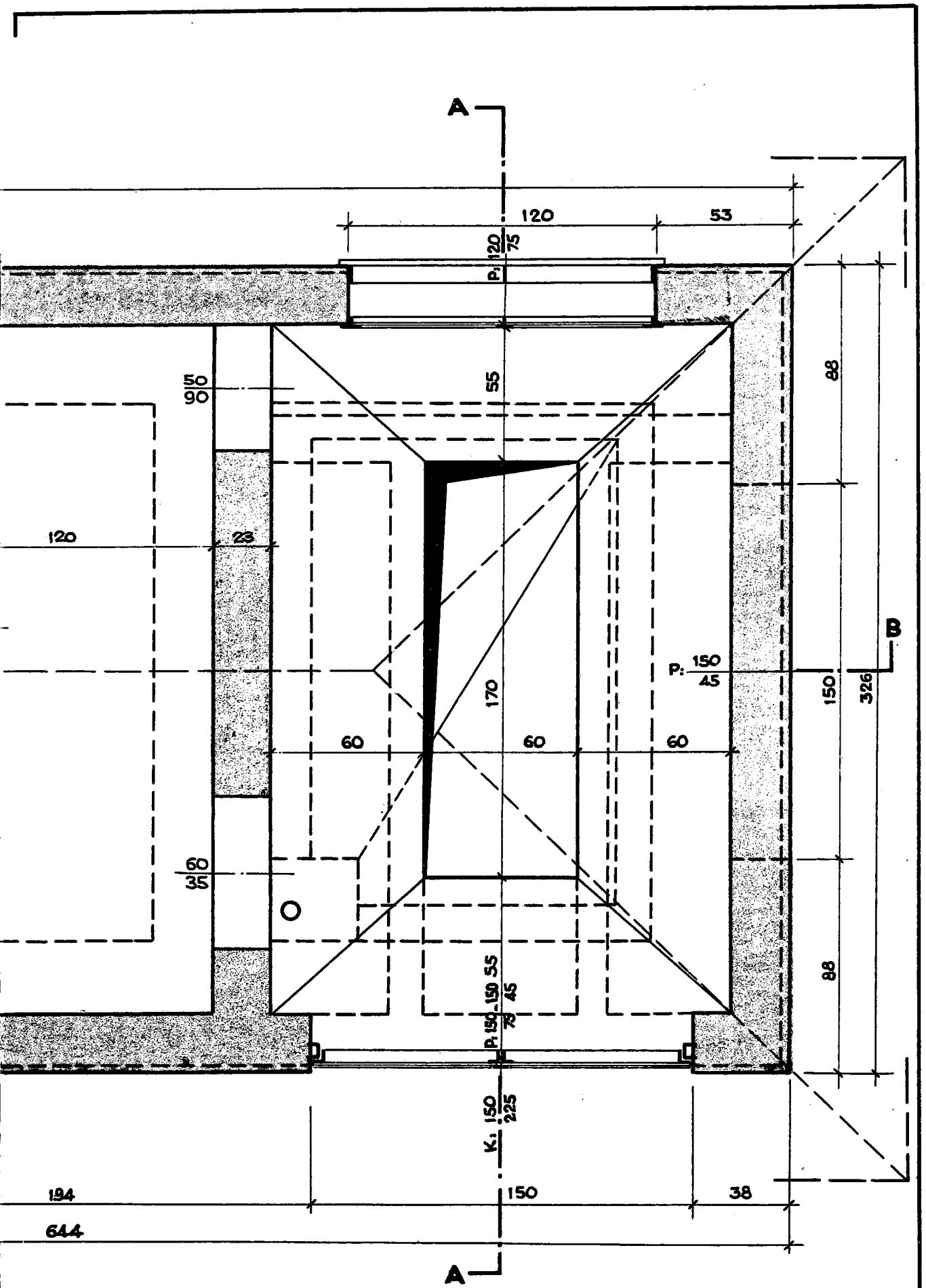
Sanayi Bakanlığının 2.7.1958
tarih, 4989 sayılı yazıları ile
tasdikli projenin aslına uygundur
2.7.1960



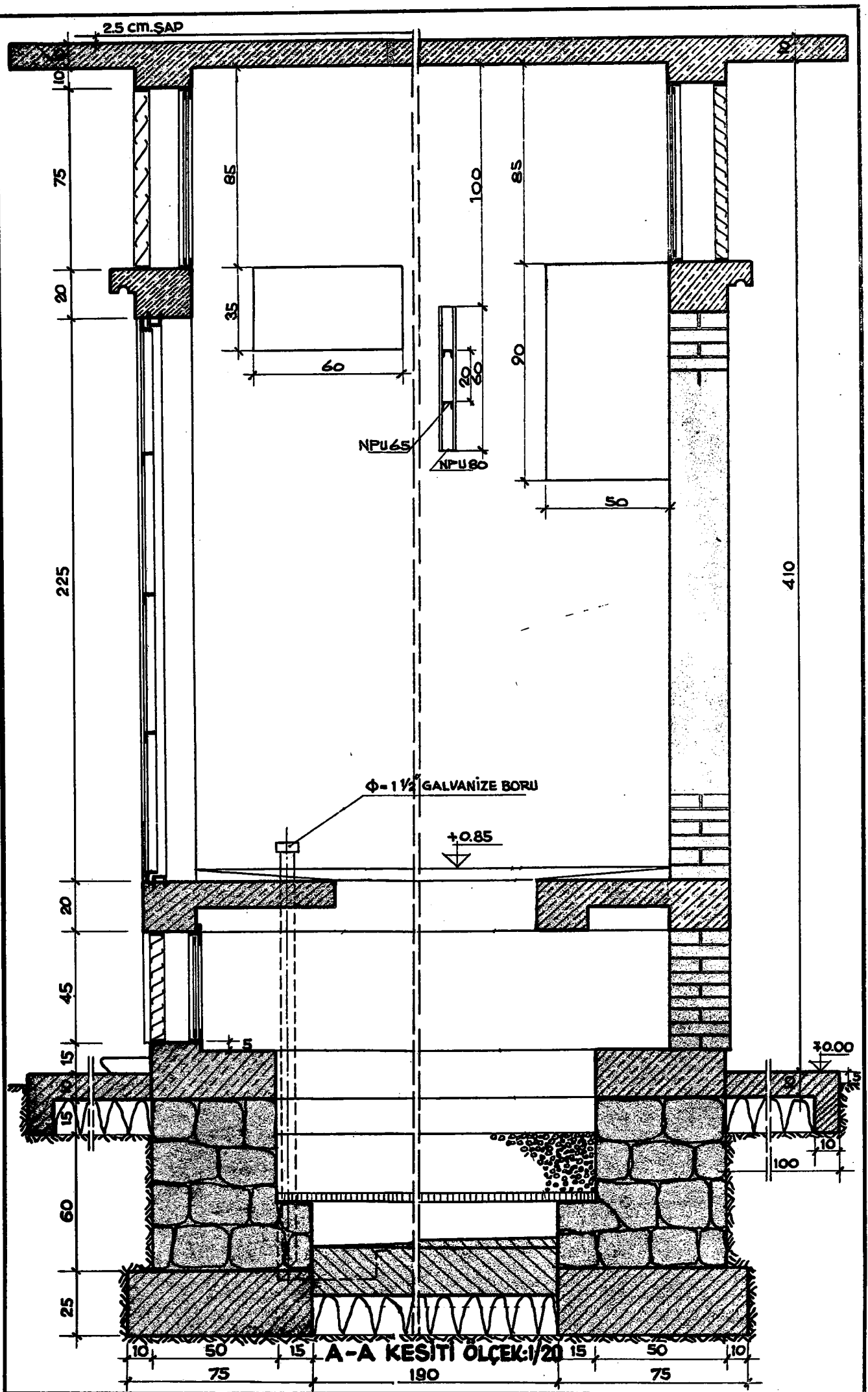
DEĞİŞİKLİK			TARİH	İMZA	
a) 16.3.1964 TARİH VE 2903 SAYILI TASDİKLI PROJEYE GÖRE DEĞİŞTİRİLDİ			23.2.1964		
b)					
ÜÇ HÜCRELİ TRAFİO BİNASI TİPİ İNŞAAT KISMI			ÖLÇEK: 1/20 1/50		
			NO.LU PLÂN İPTÂL EDİLDİ.		
			NO.LU PLÂN İPTÂL EDİLDİ.		
PROJEVİ YAPANIN DİPL. NO. ÜNVANI, ADI SOYADI	İMZA	TARİH	İLLER BANKASI ETÜD VE PROJE MÜDÜRLÜĞÜ		PLÂN NO T.P. 1/6
					DOSYA NO
ÇİZEN İSMAİL KARAS					

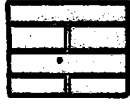


NOT: DISJONKTÖR YAĞ ÇUKURU ÇIKIŞI VE KABLO KANALLARI
GİRİŞLERİ TEÇHİZAT DURUMUNA GÖRE YUKARIKI PLÂNA
İŞLENMİŞ OLACAKTIR.



ÂN ÖLÇEK: 1/20



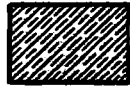


1/2 TUĞLA DUVAR 300 DZ. ÇİMENTO HARÇLI

1 » » 250 KG. » TAKV. KİREÇ HARÇLI



TAŞ DUVAR 250 DZ. ÇİMENTO HARÇLI



B.A. BETONU 300 DZ. (HATILLAR 250 DZ.)



BETON 200 DZ.

ŞAP 400 DZ. ÇİMENTO HARÇLI

İÇ SIVA KİREÇ HARÇLI

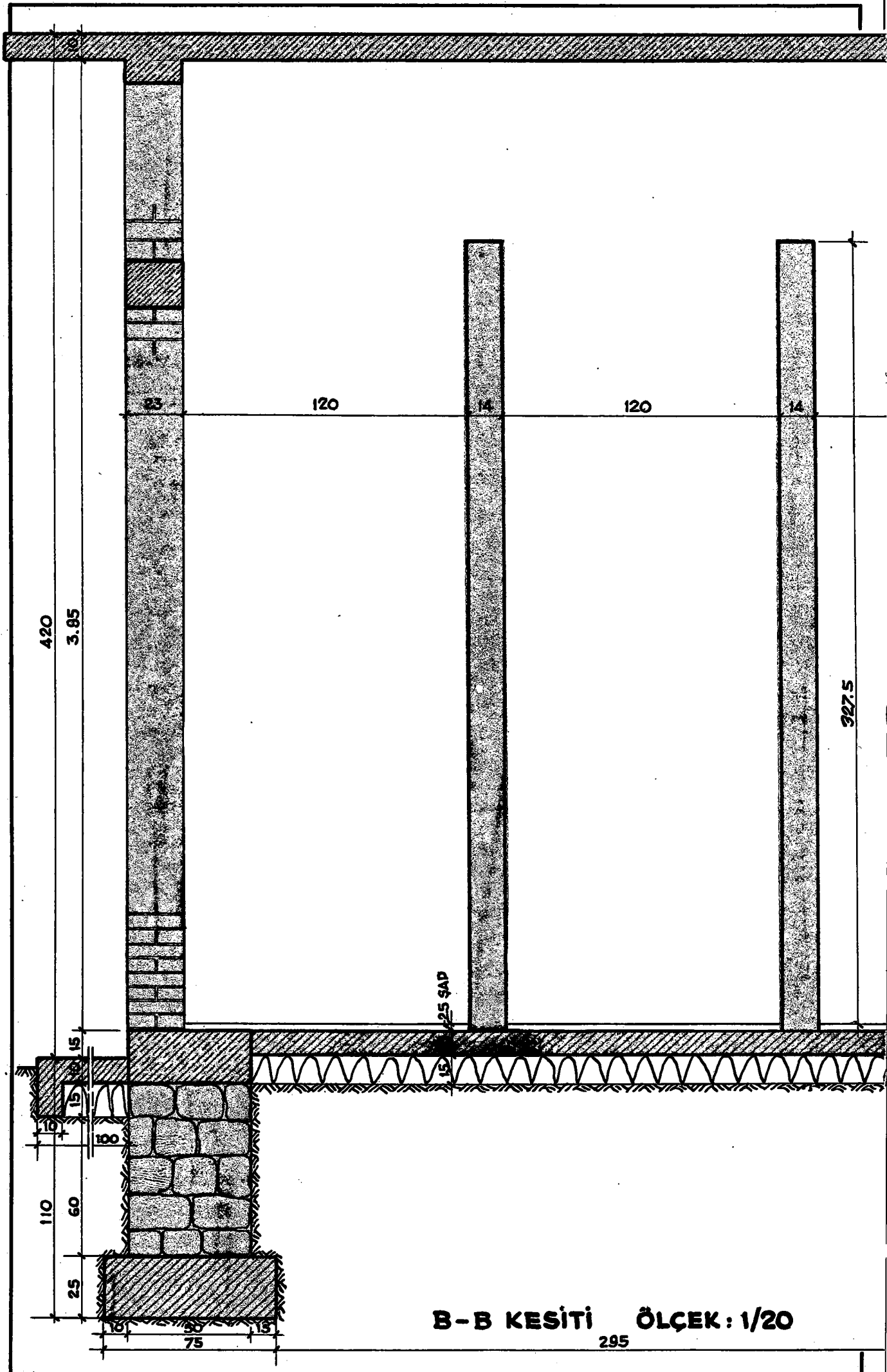
DIŞ SIVA 350 DZ. ÇİMENTO HARÇLI

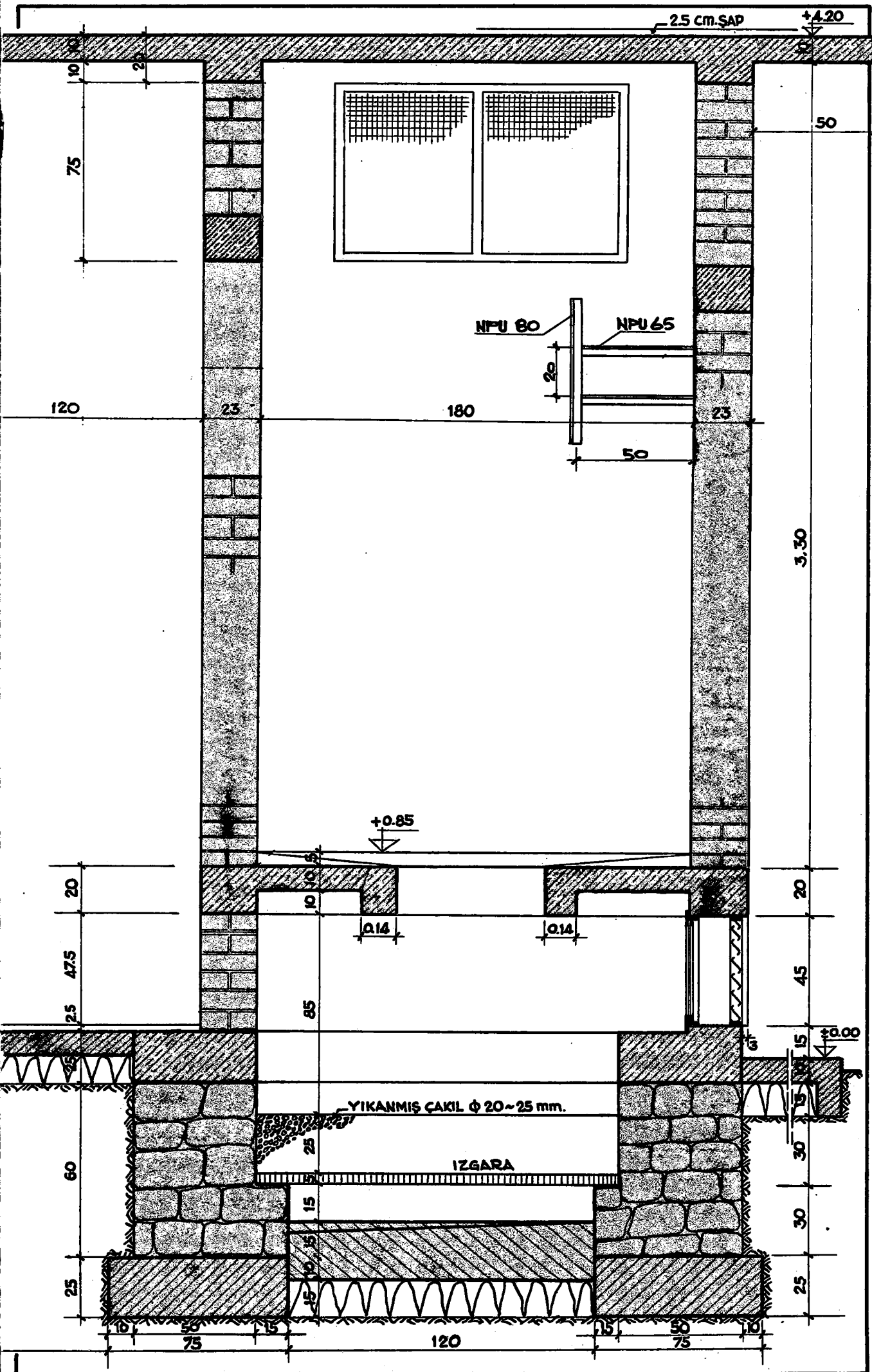
TAVAN SIVASI 175 KG. ÇİMENTO TAKV. HARÇLI

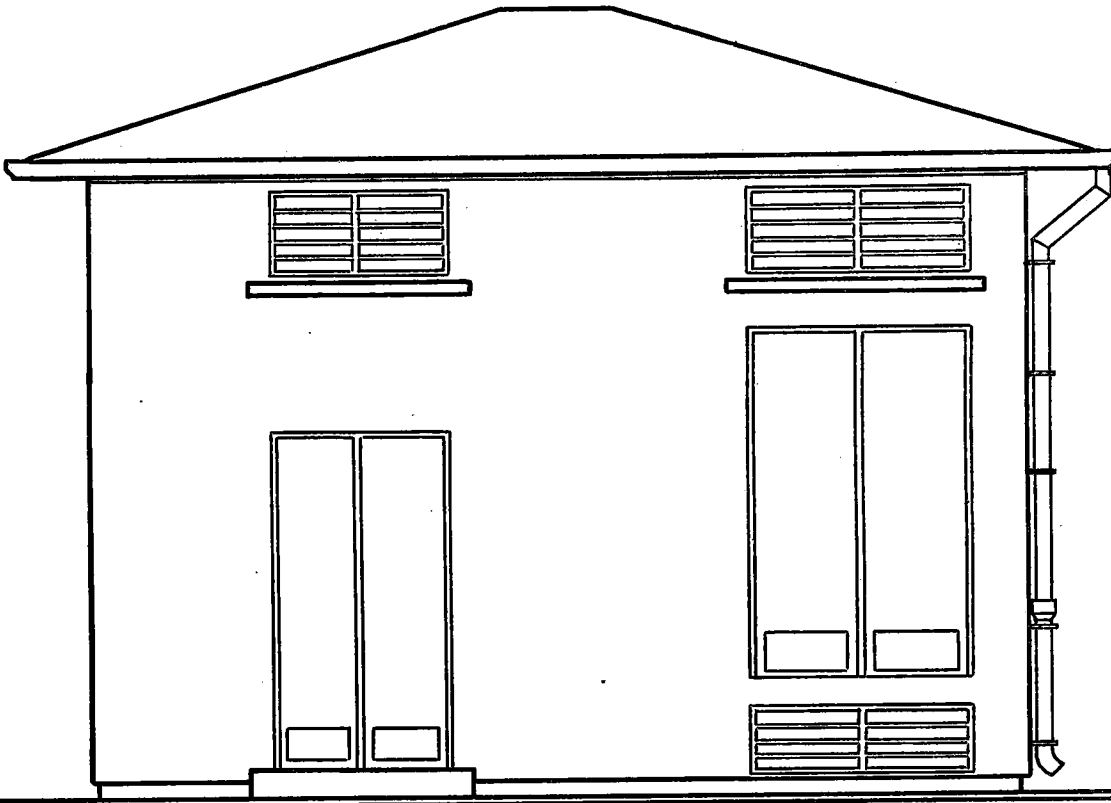
İÇ BADANA AÇIK KREM RENK

DIŞ BADANA AÇIK GRİ RENK

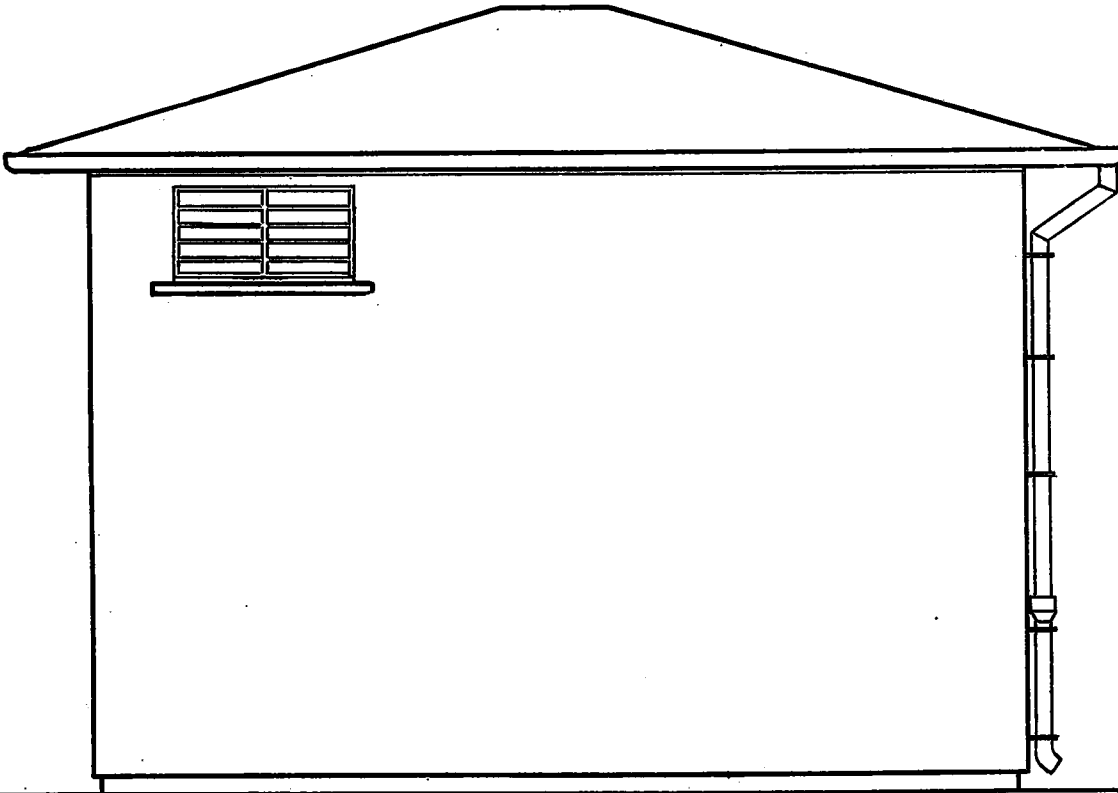
İŞARETLER





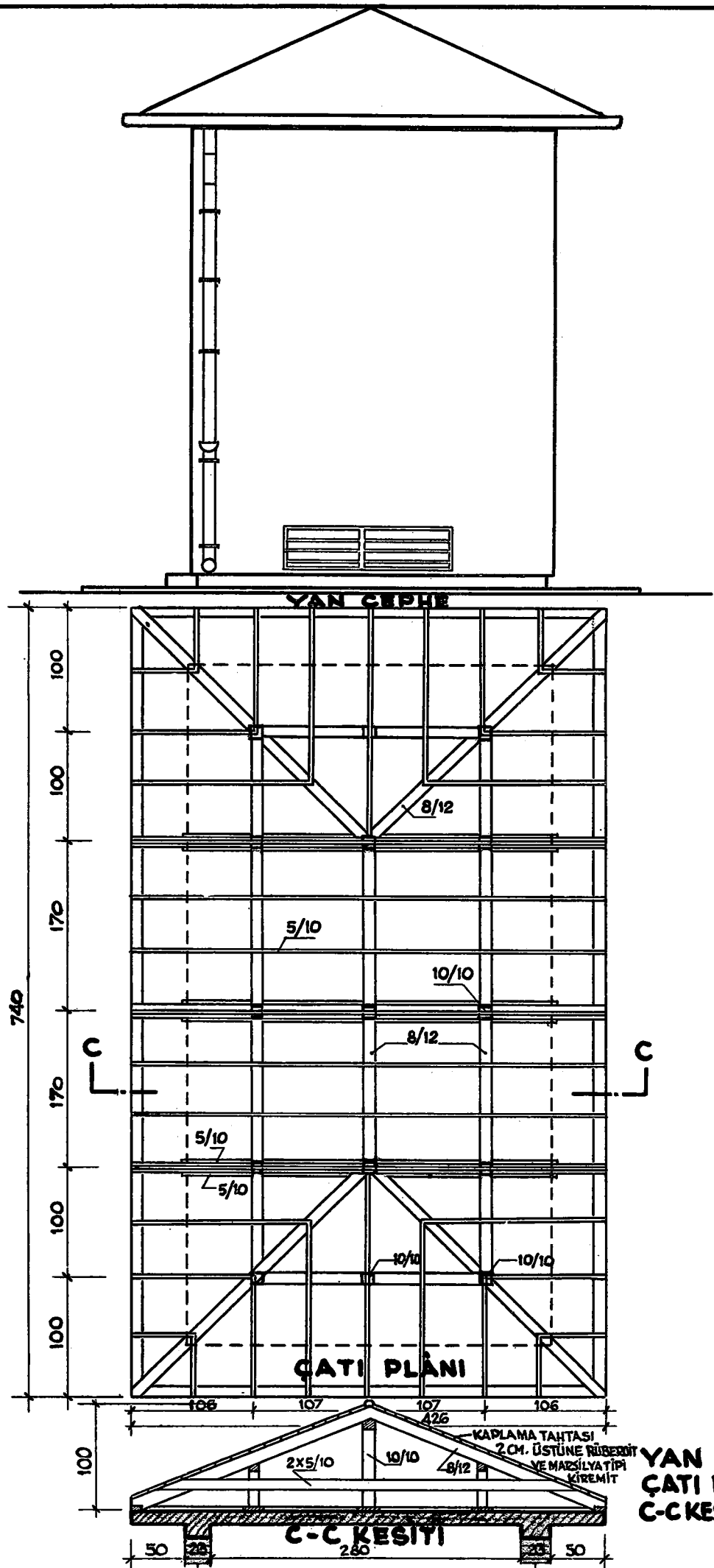


ÖN CEPHE

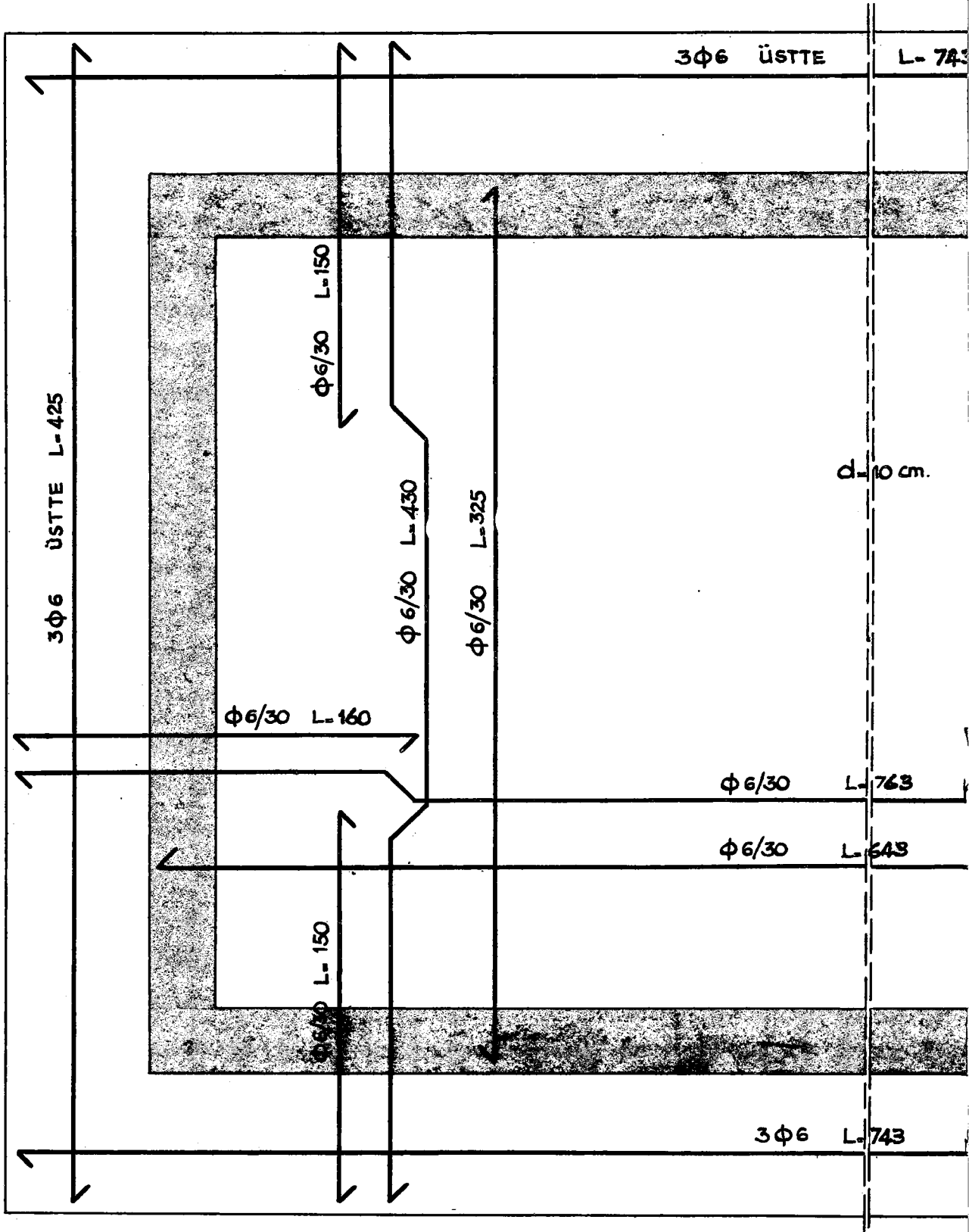


ARKA CEPHE

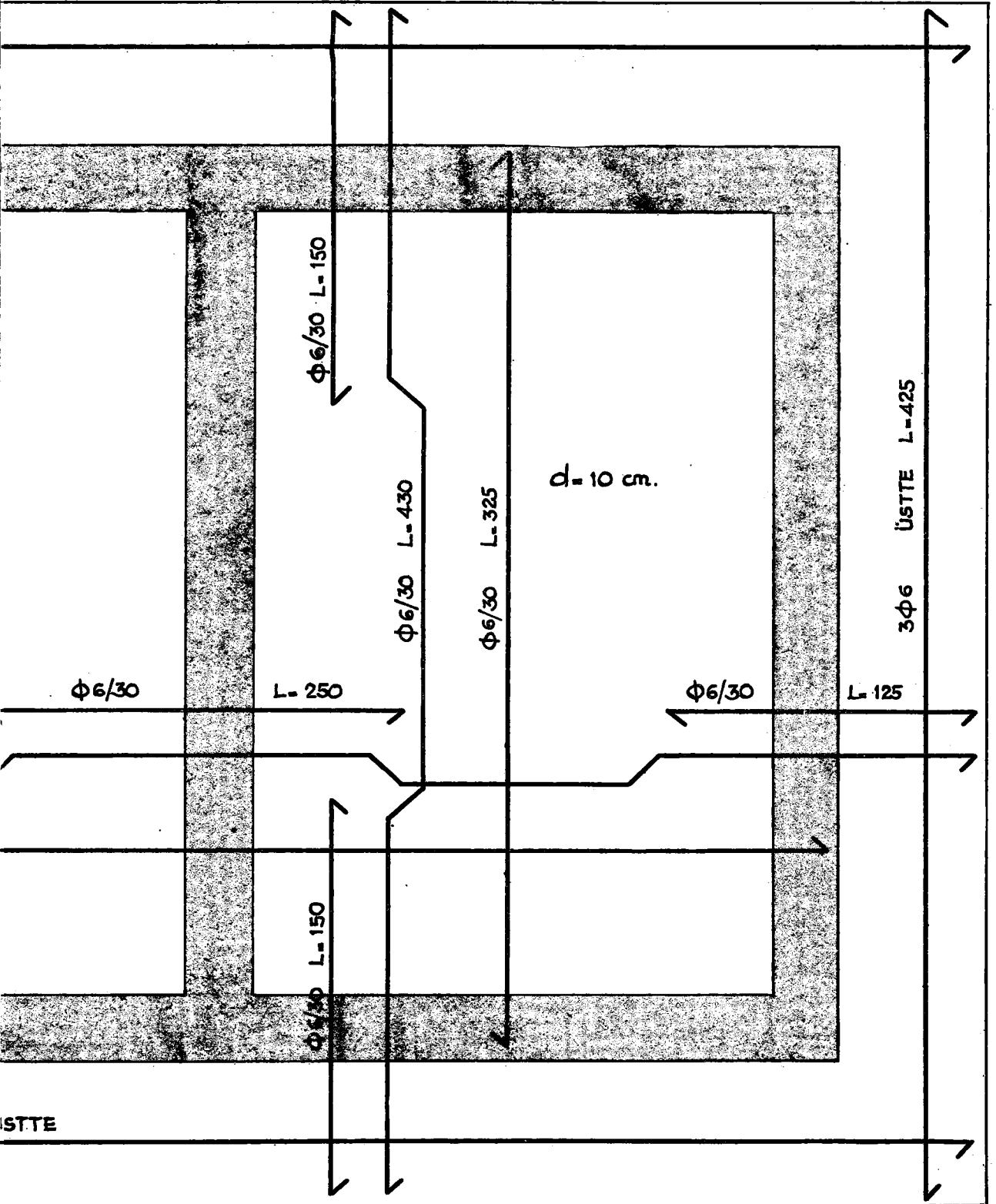
ÖN VE ARKA CEPHE GÖRÜNÜŞLERİ ÖLÇEK: 1/50

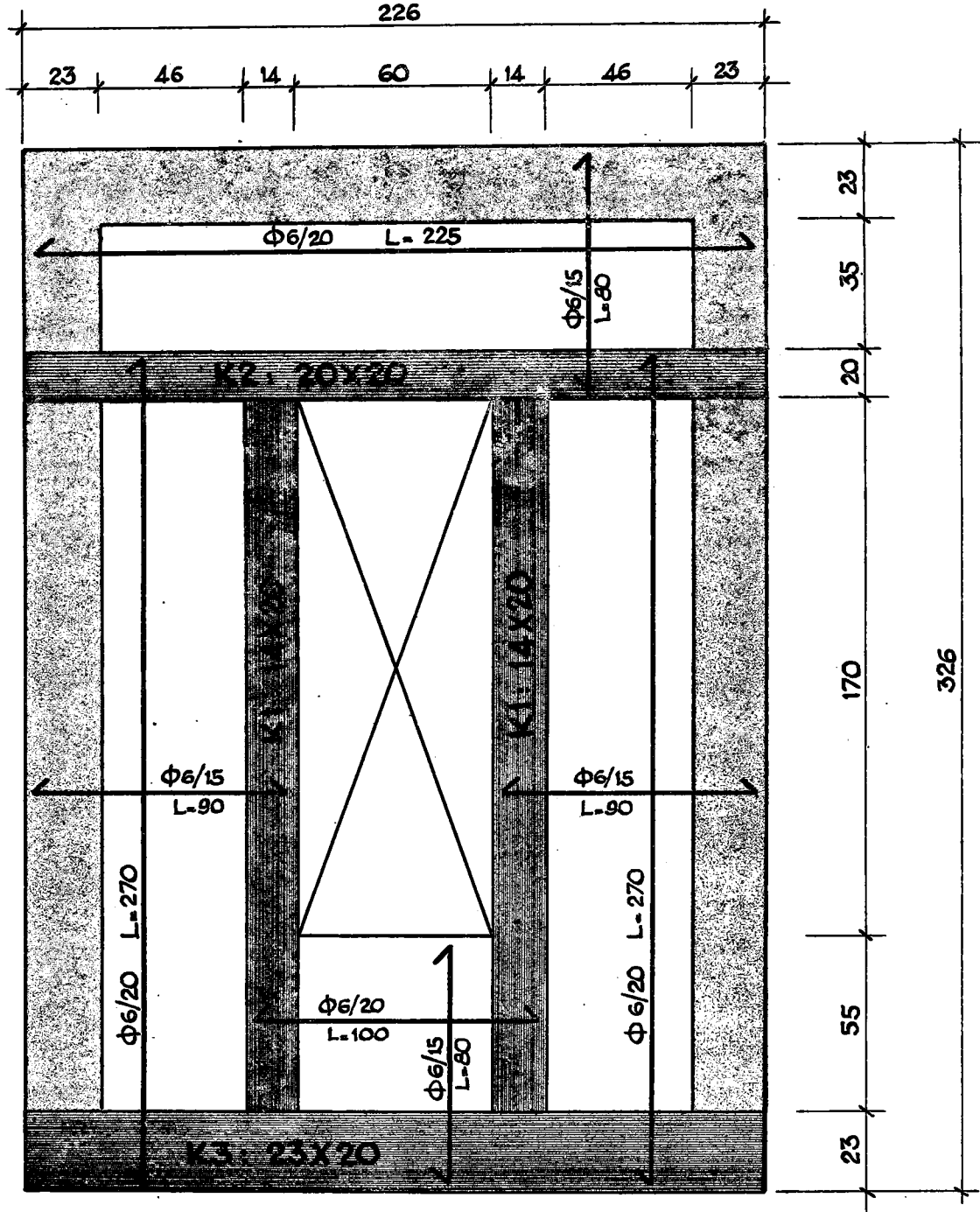


**YAN CEPHE,
ÇATI PLANI VE
C-C KESİTİ ÖLÇEK: 1/50**



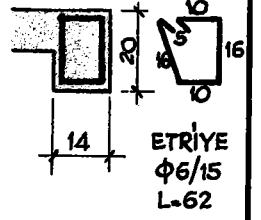
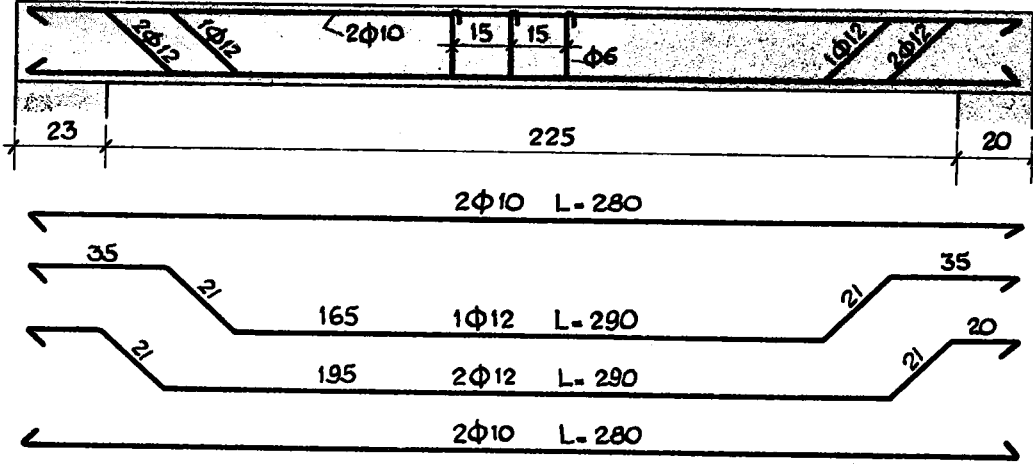
TAVAN BETON



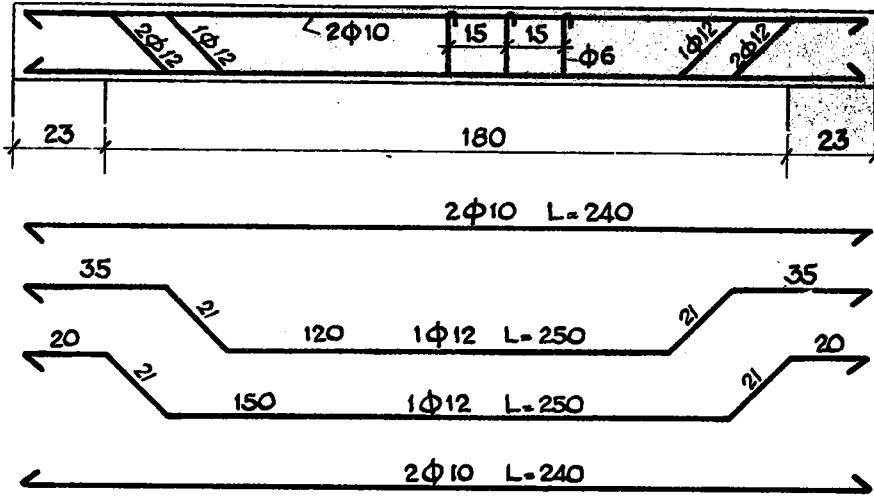


BETONARME TAFSILATI ÖLÇEK: 1/20

K1: 14x20

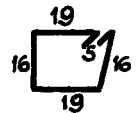
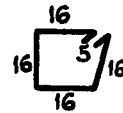
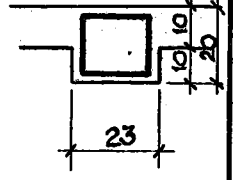
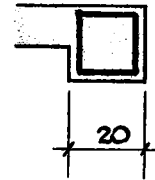


K2 - K3



K2

K3



ETRİYE
Φ6/15
L=75

ETRİYE
Φ6/15
L=80

KIRIŞ TAFSİLATI ÖLÇEK: 1/20

PLÂKLAR :

$$g = 0.350 + 0.500 \\ = 0.850 \text{ t/m}^2$$

KISA İSTİKAMETTE $\Phi 6/15$

UZUN $\Phi 6/20$

K1 Kirişi :

$$\text{PLÂKTAN} \quad 0.30 \times 0.85 = 0.255$$

$$\text{ZATİ KISIM} \quad 0.15 \times 0.20 \times 2.4 = \frac{0.072}{0.327 \text{ t/m}}$$

$$\text{TRAFODAN} \quad q = \frac{1}{4} \times 2.6 = 0.65 \text{ TON}$$

$$A = 0.327 \times 1.25 + \frac{0.65 \times 1.73}{2.50} + \frac{0.65 \times 1.09}{2.50} =$$

$$0.41 + 0.45 + 0.78 = 1.14 \text{ TON}$$

$$B = 0.41 + \frac{0.65 \times 1.41}{2.50} + \frac{0.65 \times 0.77}{2.50} = 0.41 + 0.37 + 0.20 = 0.98 \text{ TON}$$

$$n_{\max} = 0.98 \times 1.25 - \frac{0.327 \times 1.09}{2} = 1.22 - 0.19 = 1.03 \text{ tm.}$$

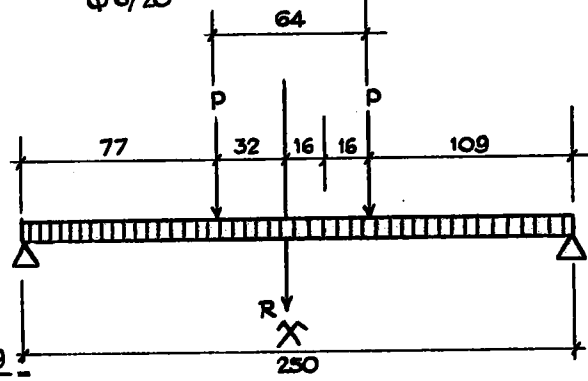
$$d = 2\alpha \quad b = 14 + \frac{46}{2} = 37$$

$$\sigma = 56/1400$$

$$F_e = 4.84$$

$$2\Phi 10 + 3\Phi 12 = 4.96 \text{ cm}^2$$

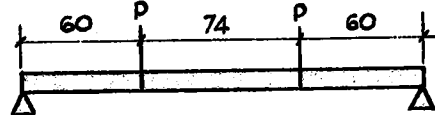
ETRİYE $\Phi 6/15$



K2 Kirişi :

$$\text{PLÂKTAN} \quad 0.25 \times 0.60 \times 0.850 = 0.127$$

$$\text{ZATİ} \quad 0.23 \times 0.20 \times 2.4 = \frac{0.110}{q = 0.237}$$



$$q = 1.14 \text{ TON} \quad A = B = 0.237 \times 0.97 + 1.14 = 1.37 \text{ TON}$$

$$n_{\max} = 1.37 \times 0.97 - \frac{0.237 \times 0.97^2}{2} = 1.14 \times 0.37 =$$

$$= 1.37 - 0.11 = 0.42 = 0.80 \text{ tm.}$$

$$d = 20$$

$$h = 37$$

$$\sigma = 47/1400$$

$$Z = 3.70$$

$$2\Phi 10 + 2\Phi 12$$

ETRİYE $\Phi 6/15$

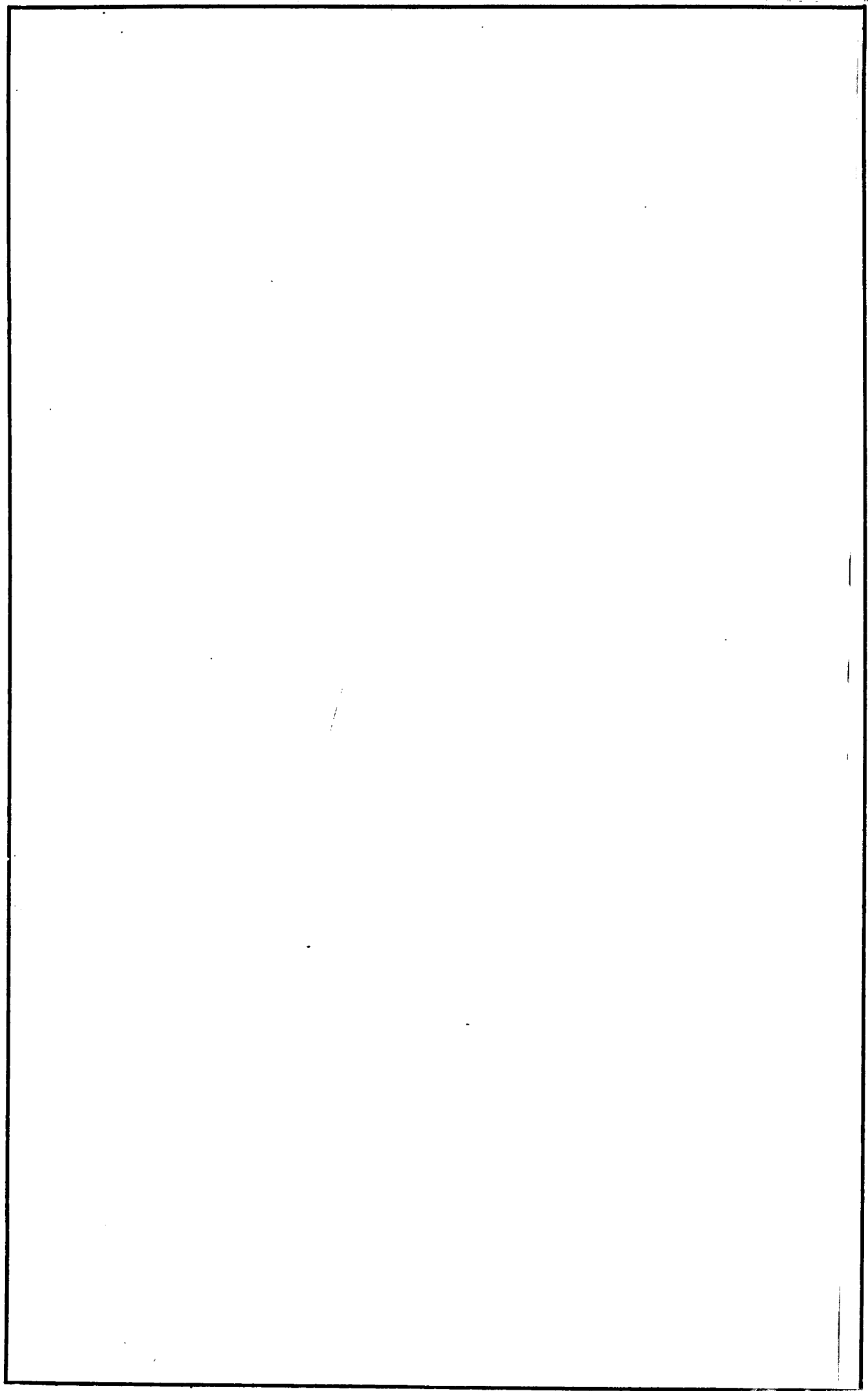
NOT: DEMİRLER EN GAYRİ MÜSAİT TRAFO YÜKÜNDE DAHI GAYET CÜZİ OLMASI DOLAYISİLE HAFİF TRAFO YÜKLERİNDE DE AYNI DEMİRLER KULLANILACAKTIR.

DÖŞEME VE KİRİŞ HESABI

BİRİM FİYAT N°	İŞİN CİNSİ	MİKTARI	ÖLÇÜ CİNSİ
1601	ELLE SERBEST TOPRAK KAZISI	60.000	M ³
1605	» » KÜSKÜ »	40.000	»
1610	TEMEL ÜSTÜ TOPRAK KAZISI	50.000	»
1611	» » KÜSKÜ »	60.000	»
1613	» TOPRAK KAZISI	10.000	»
1622	» KÜSKÜ »	10.000	»
1629	» KAYA »	10.000	»
1861	200 KG. ÇİMENTO DOZLU BETON	7.000	»
1872	250 » » » B.ARME BETONU	3.000	»
1873	300 » » » » »	5.000	»
1896	250 » » » HARÇLI MOLOZ KARGIR	8.000	»
1986	BETON - BETONARME KALIBI	75.00	M ²
1878	BETONARME DEMİRİ	0.600	TON
1901	0.23 TUĞLA DUVAR	20.000	M ³
1902	YARIM TUĞLA DUVAR	6.00	M ²
1930	DIŞ SIVA (350 DOZ)	86.00	»
1925	İÇ SIVA	80.00	»
1926	TAVAN SIVASI	16.00	»
1974	BADANA	180.00	»
1918	400 DZ. ŞAP (2.5 cm.)	46.00	»
2116	BLOKAJ	5.000	M ³
2015	AHŞAP ÇATI	32.00	M ²
2042	MARSİLYA KİREMIT KAPLAMA	32.00	»
2046	İKİ KAT RUBEROİT KAPLAMA	32.00	»
2051	12 N° ÇİNKO YAĞMUR OLUĞU	23.00	Mt.
2050	12 N° » » BORUSU	9.00	»
2058	PIK DOFEN (Φ120 m/m.)	2.00	ADET
1940	MOZAYIK BASAMAK	1.50	Mt.
2027	DEMİR KAPI	300.000	Kg.
2032	NPU 14 İLE BASİT İMALÂT	85.000	»
2028	DEMİR PANCUR	230.000	»
2034	DEMİR İZGARA	95.000	»
1980	DEMİR ÜZERİNE YAĞLI BOYA	30.000	M ²
2157	Φ 20 cm. BETON BÜZ	10.00	Mt.
2367	Φ 1 ½ GALVANEZLİ BORU	3.00	»
1992	İŞ İSKELESİ ZAMMI	86.00	M ²

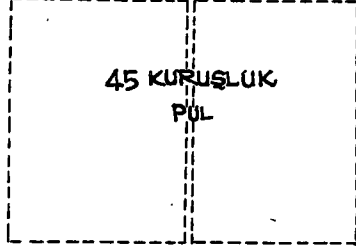
NOT: KAPI, PENÇERE V.S.DETAYLAR İÇİN TAFSİLÂT PLÂNINA MÜRACAAT EDİNİZ...

İNŞAAT METRAJİ



ENERJİ VE TABİİ KAYNAKLAR
BAKANLIĞI :

İLLER BANKASI :



İLLER BANKASI
.....Bölge Müdürlüğü :

MÜTEAHHİT :



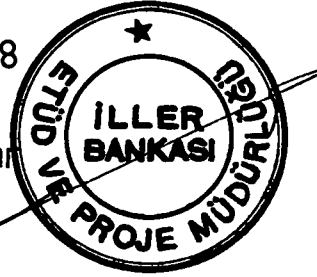
ADI VE SOYADI :

DİPLOMA NO. :

ODA NO. :

Sanayi Bakanlığının 2.7.1958
tarih, 4989 sayılı yazıları ile
tasdikli projenin aslına uygundur

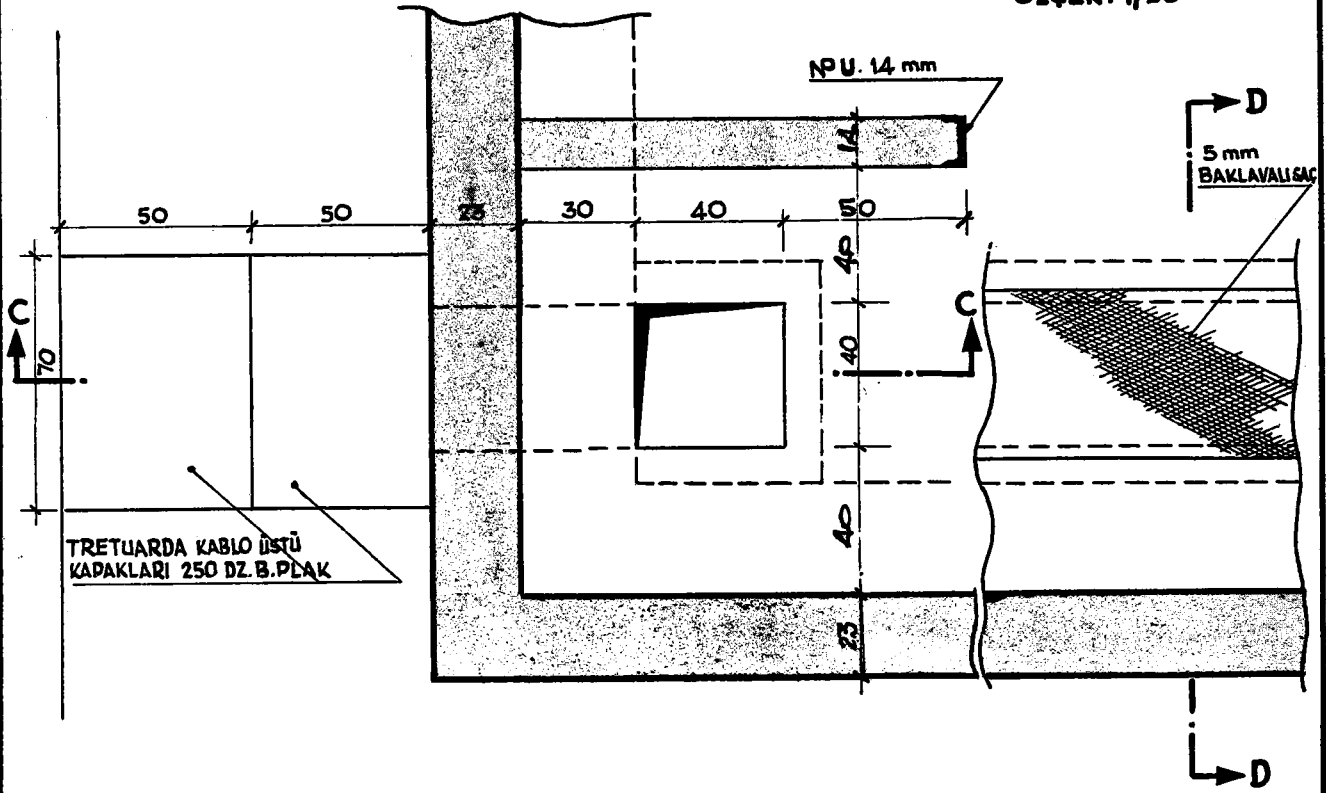
2.6.1960



DEĞİŞİKLİK			TARİH	İMZA
a) 16.3.1964 TARİH VE 29-3 SAYILI TASDİKLI PROJEYE GÖRE DEĞİŞTİRİLDİ			23.3.1964	
b)				
TRAFO BİNASI KAPI VE PENCERE V.S. DETAY VE TAFSİLATLÂRI			ÖLÇEK: 1/20 1/10 1/5 1/2	
			NO.LU PLAN İPTAL EDİLDİ.	
			NO.LU PLAN İPTAL EDİLDİ.	
			PLAN NO: 1/9	
PROJEYİ YAPANIN DİPLO NO. ÜNVANI ADI, SOYADI	İMZA	İMZA TARİHİ	İLLER BANKASI ETÜD VE PROJE MÜDÜRLÜĞÜ	
ÇİZEN: İSMAIL KARAS			ARŞİV KAYIT NO:	

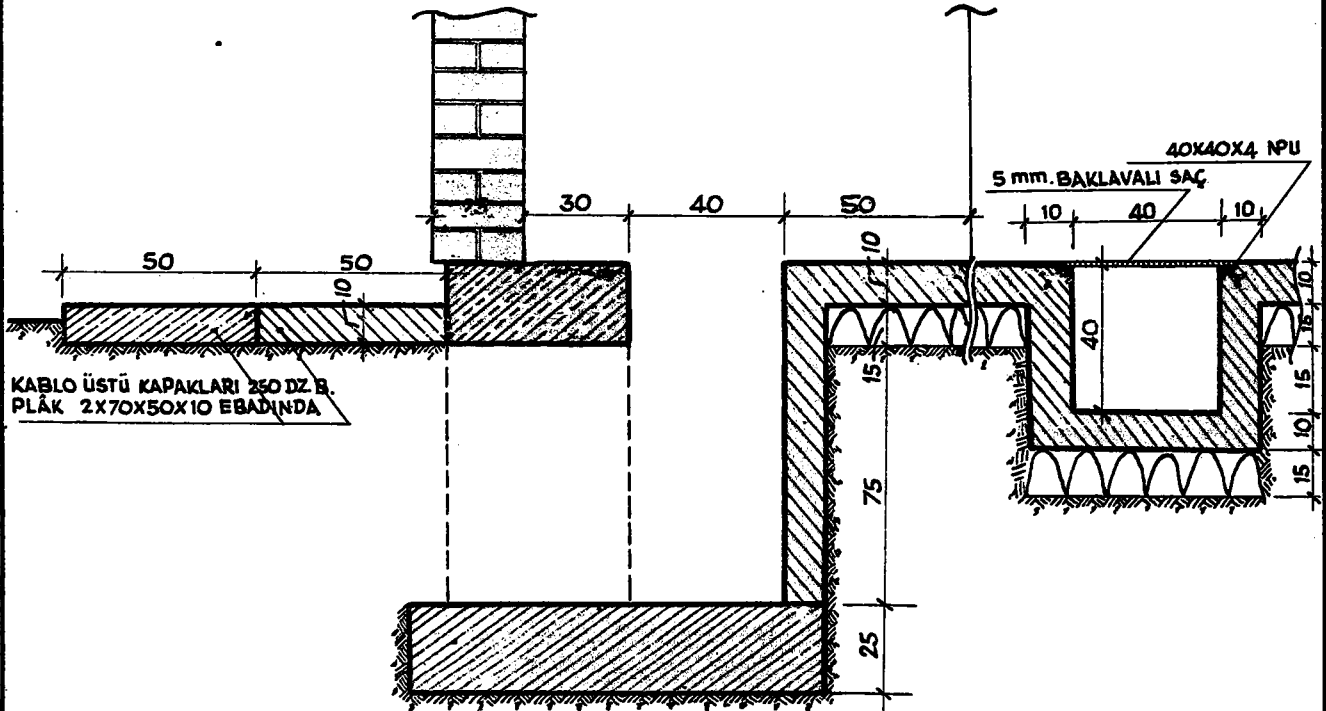
KABLO GİRİŞ ÇIKIŞ KANALI ÖLÇEK: 1/20

BİNA DAHİLİNDE YAPILACAK
KABLO KANALI
ÖLÇEK: 1/20



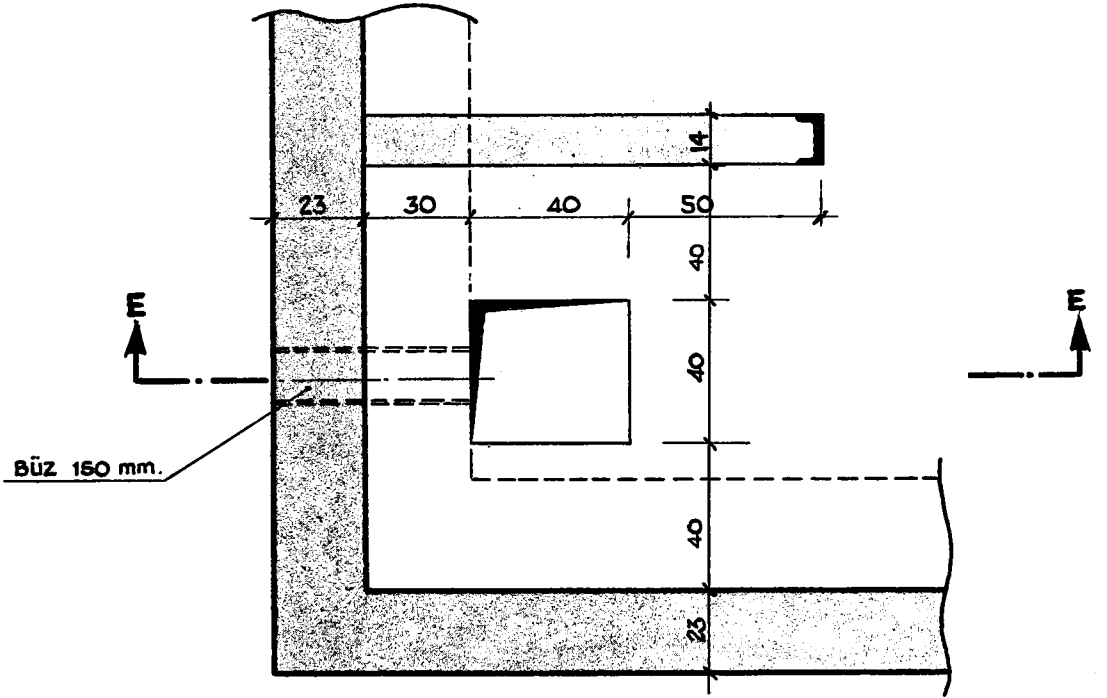
C-C KESİTİ ÖLÇEK: 1/20

D-D KESİTİ ÖLÇEK: 1/20

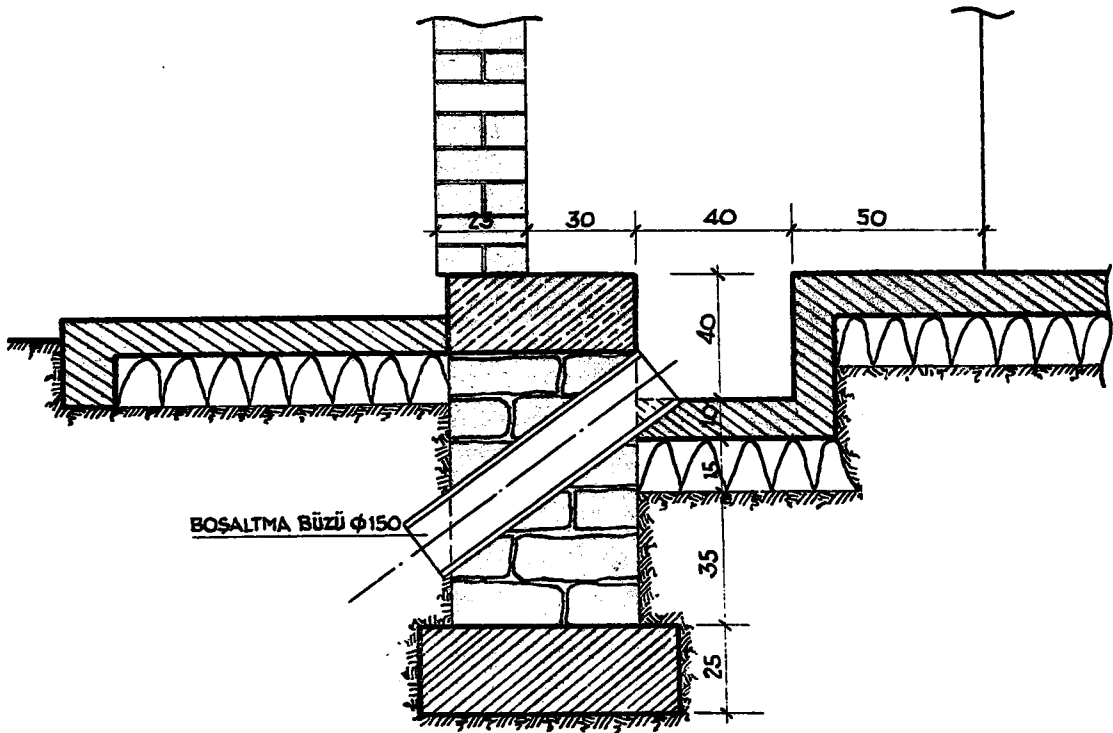


KABLO KANALI PLANI, C-C VE D-D KESİTİ ÖLÇEK: 1/20

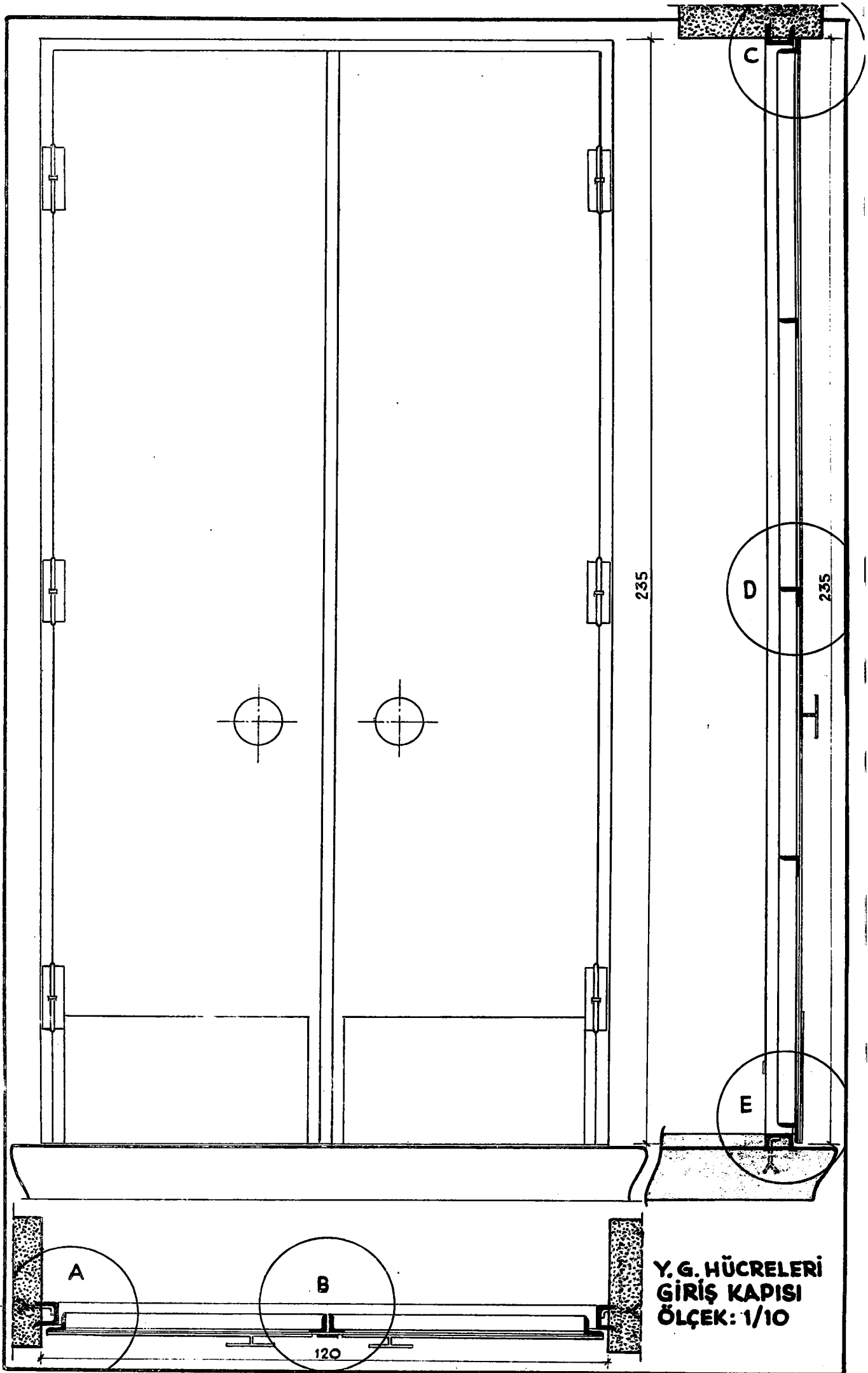
DİZJONKTÖR YAĞ ÇUKURU ÖLÇEK: 1/20

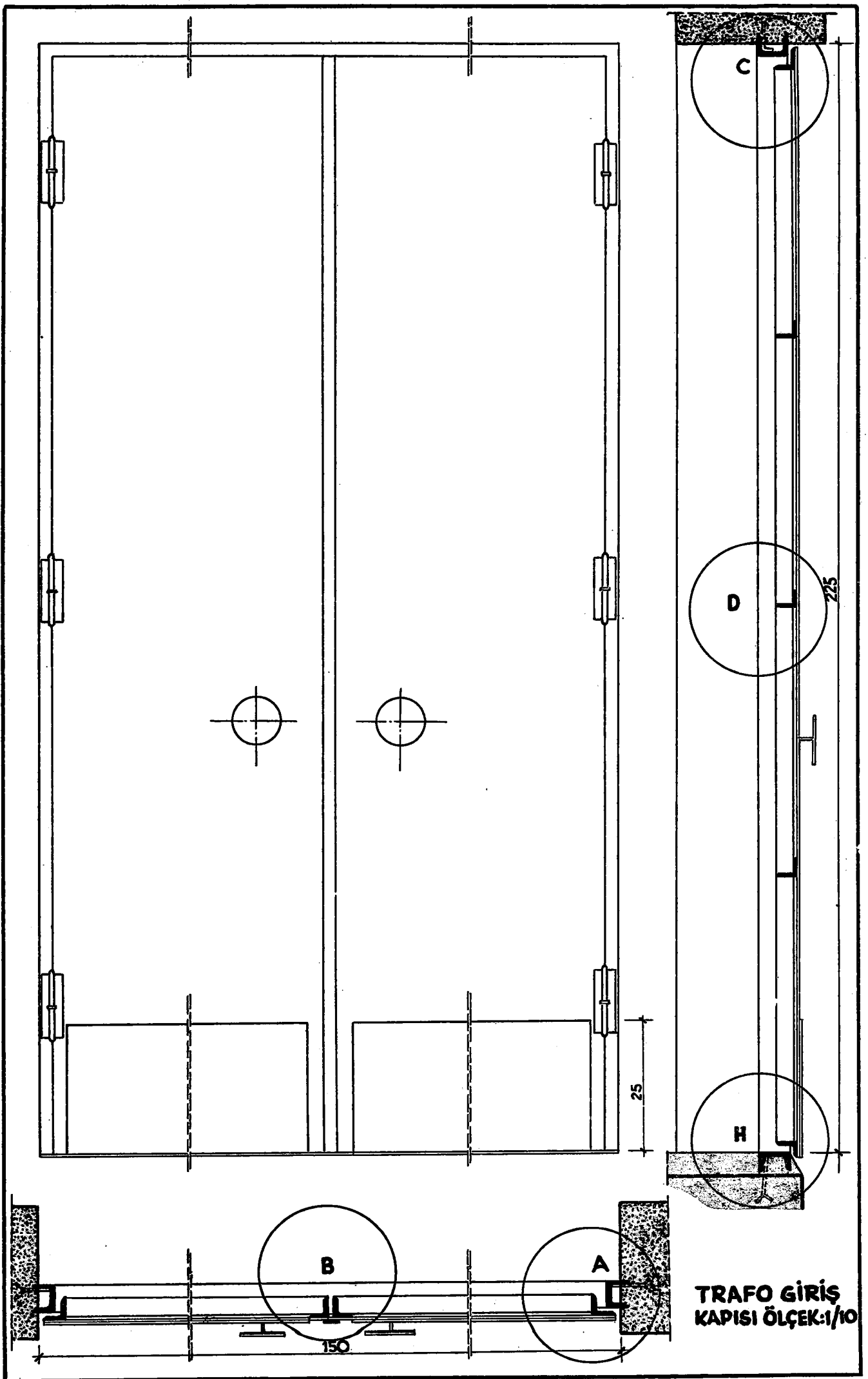


E-E KESİTİ ÖLÇEK: 1/20

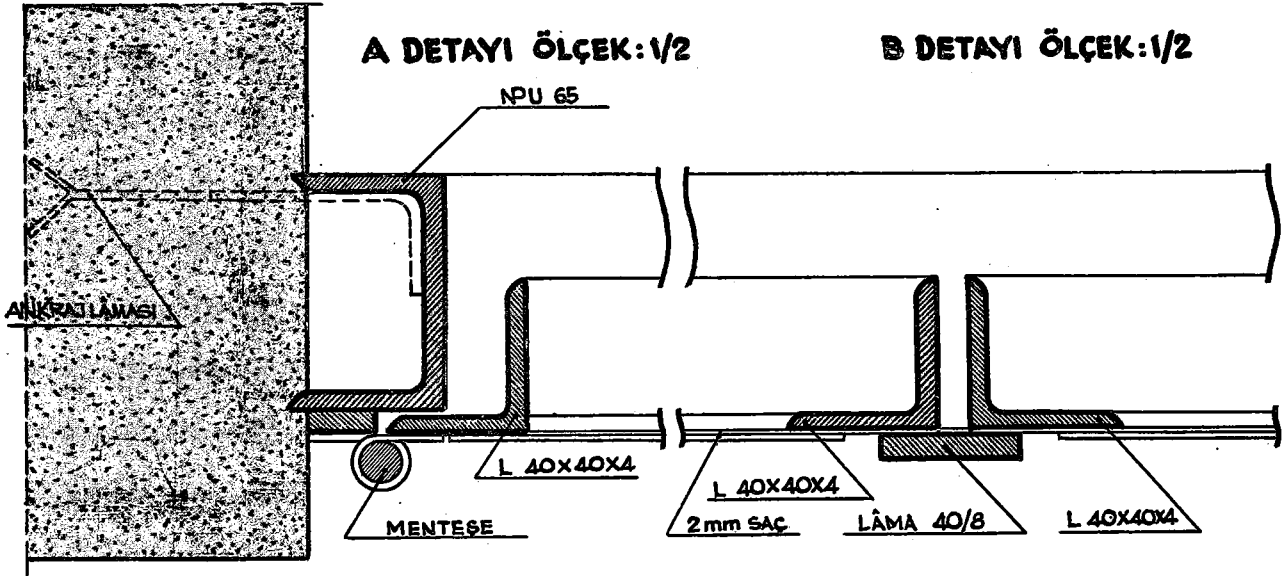


DİZJONKTÖR YAĞ ÇUKURU VE E-E KESİTİ ÖLÇEK: 1/20



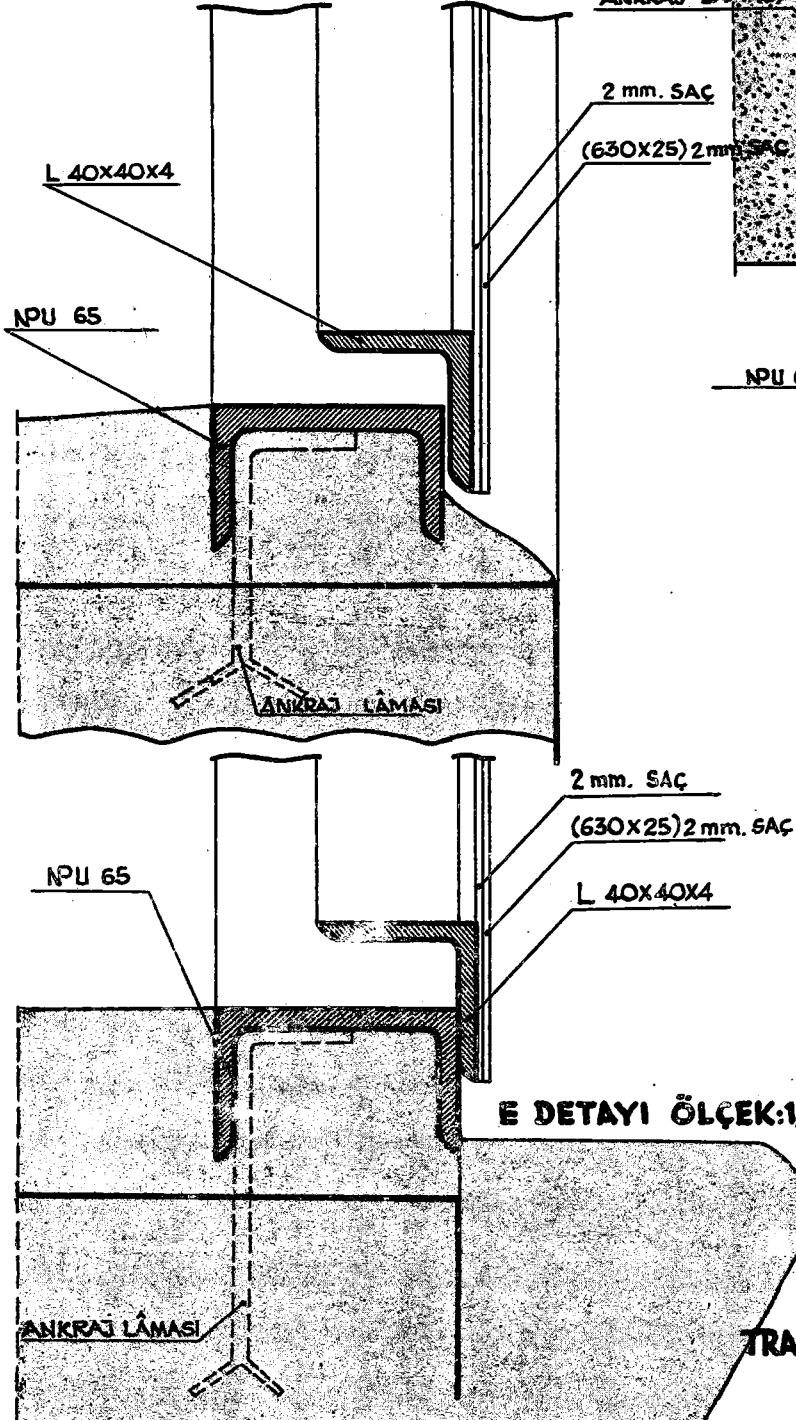


A DETAYI ÖLÇEK: 1/2

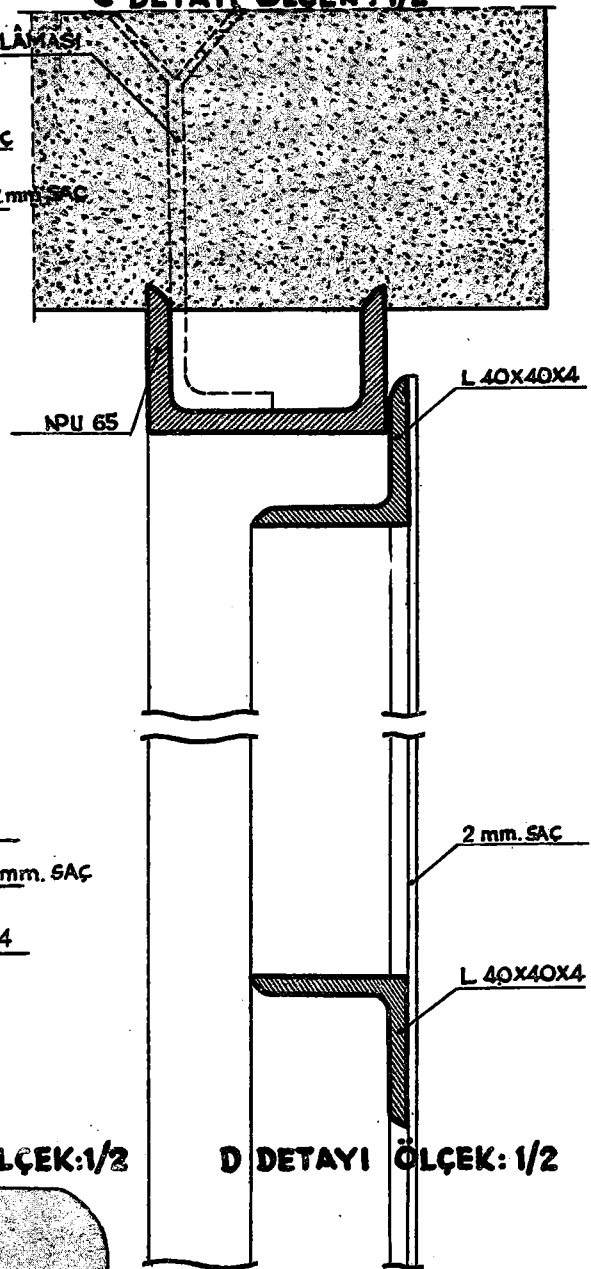


B DETAYI ÖLÇEK: 1/2

H DETAYI ÖLÇEK: 1/2



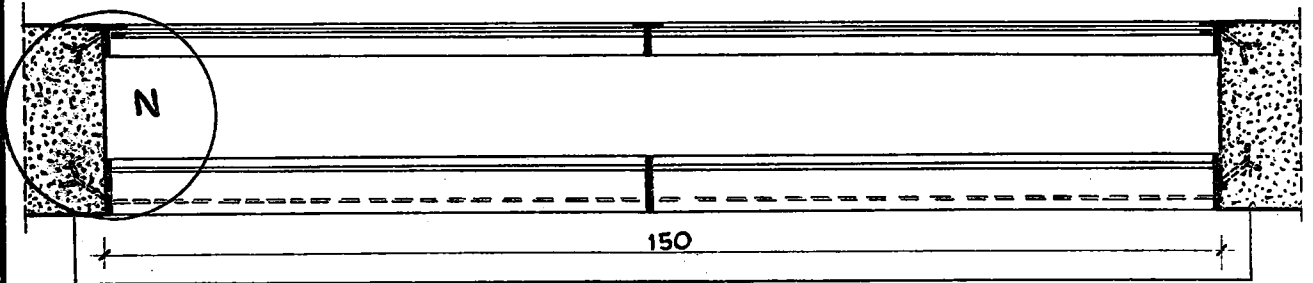
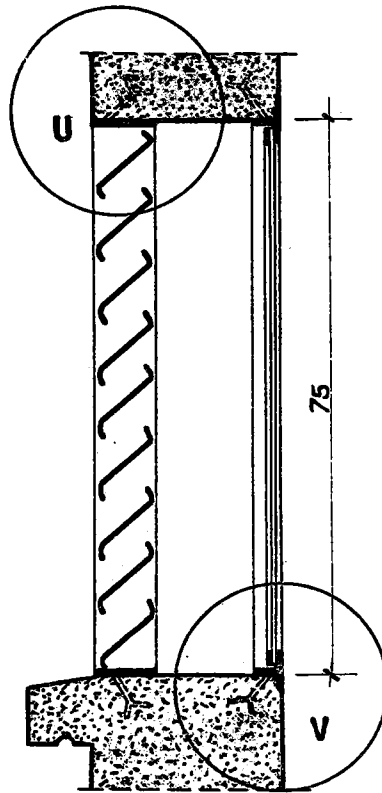
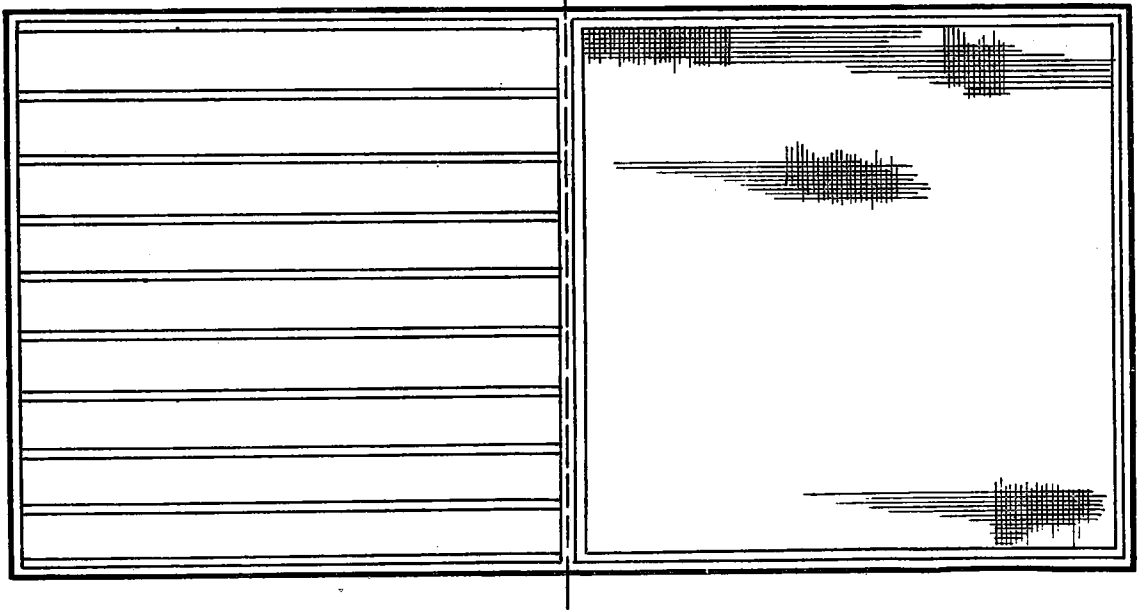
C DETAYI ÖLÇEK: 1/2



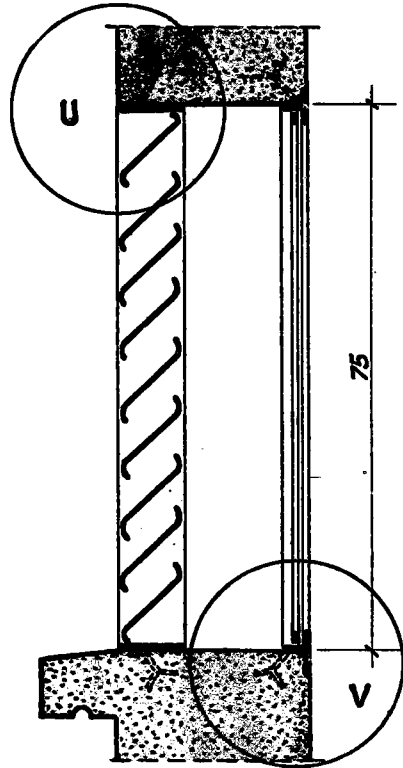
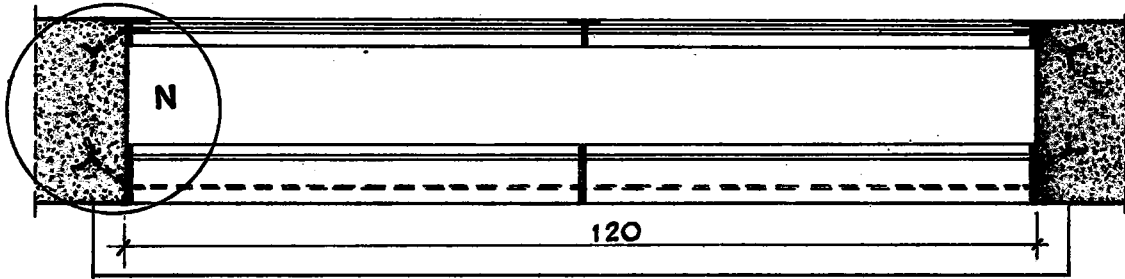
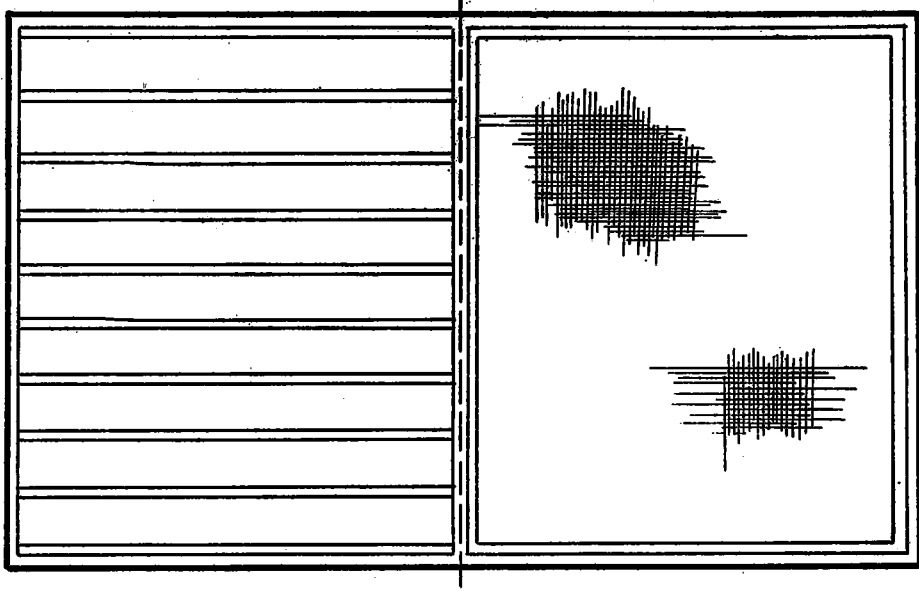
E DETAYI ÖLÇEK: 1/2

D DETAYI ÖLÇEK: 1/2

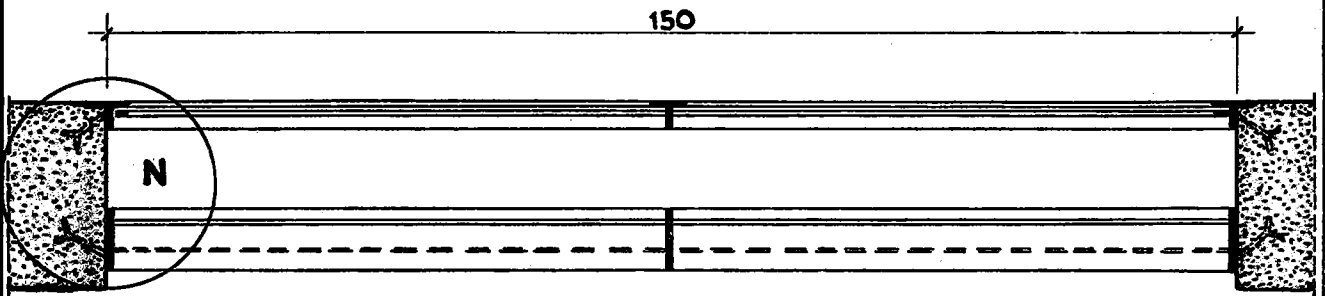
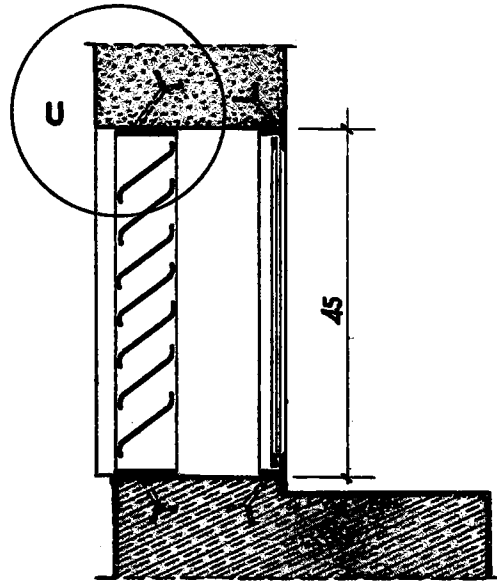
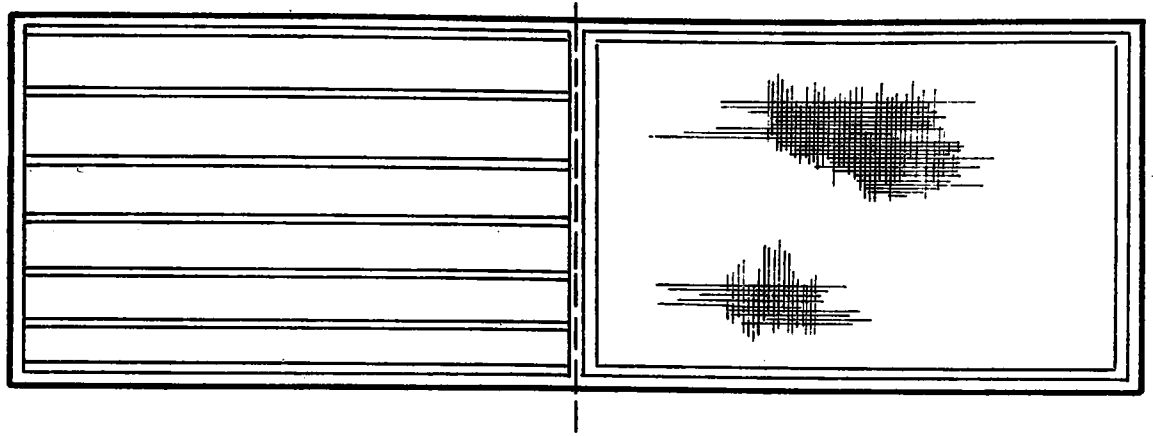
TRAFO KAPI DETAYLARI ÖLÇEK: 1/2



150 X 75 TRAFO PENCERE TİPİ ÖLÇEK: 1/10

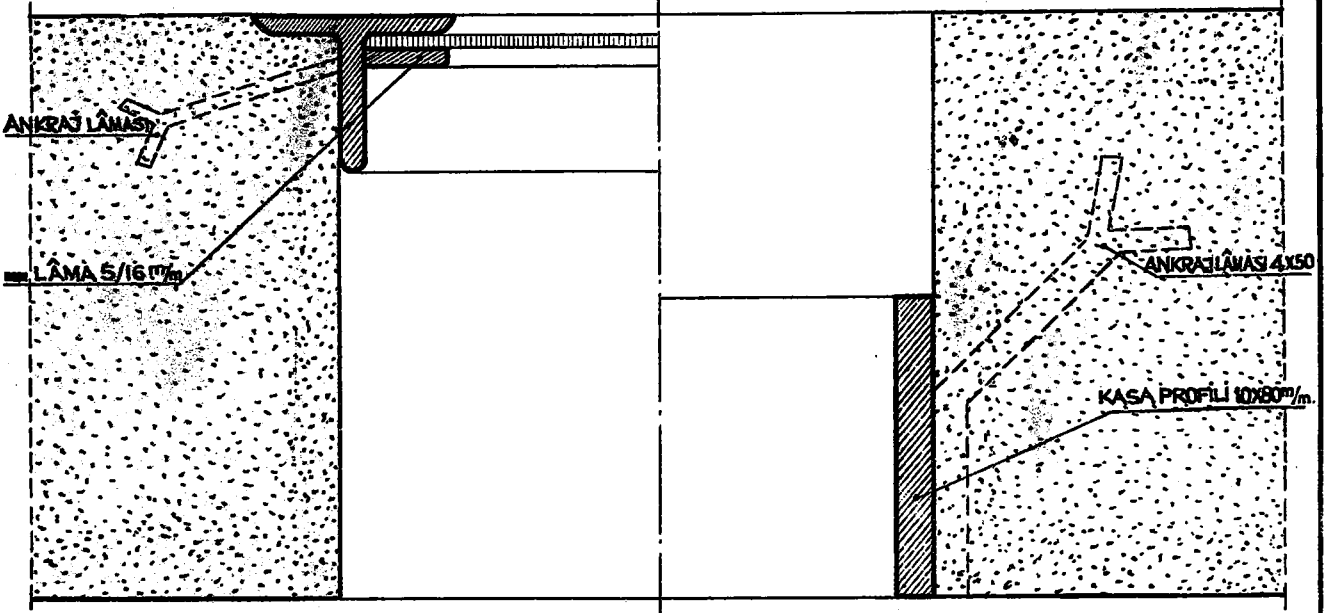


120x75 TRAFO PENCERE TİPİ ÖLÇEK: 1/10

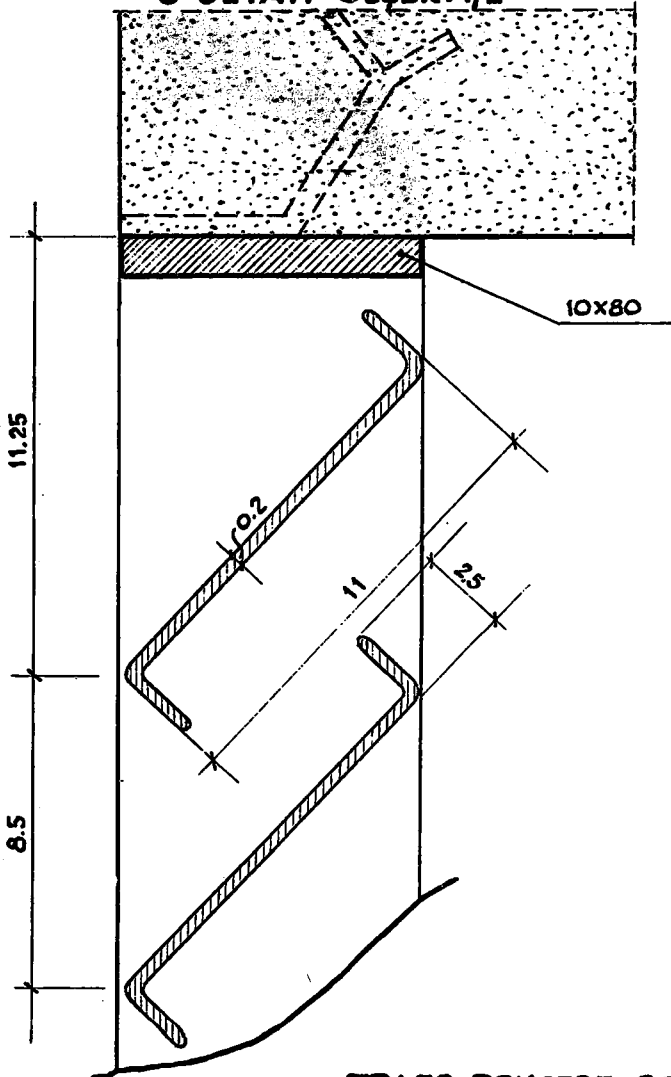


150 X 45 TRAFO PENCERE TİPİ ÖLÇEK: 1/10

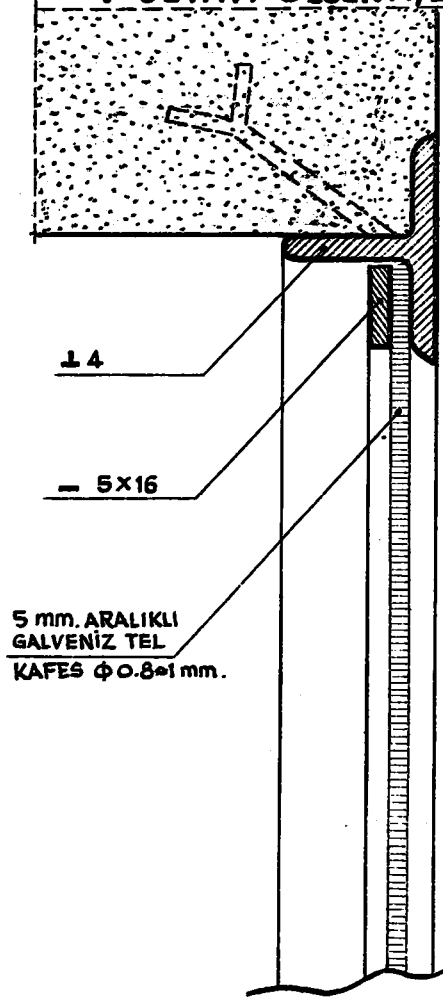
N DETAYI ÖLÇEK: 1/2



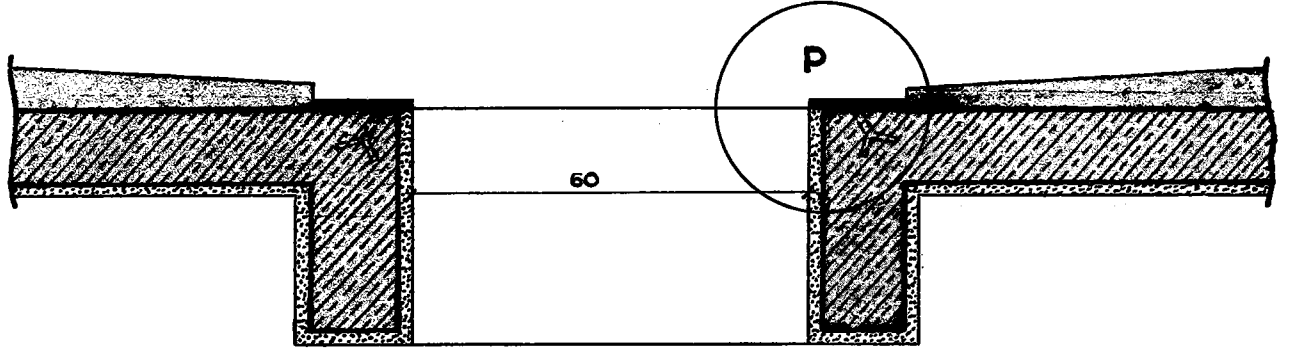
U DETAYI ÖLÇEK: 1/2



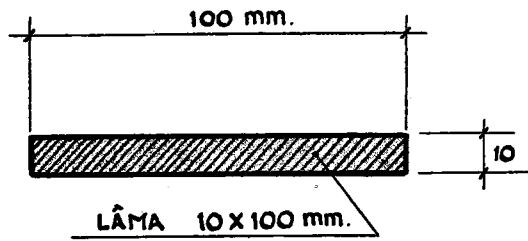
V DETAYI ÖLÇEK: 1/2



TRAFO PENCERE DETAYLARI ÖLÇEK: 1/2



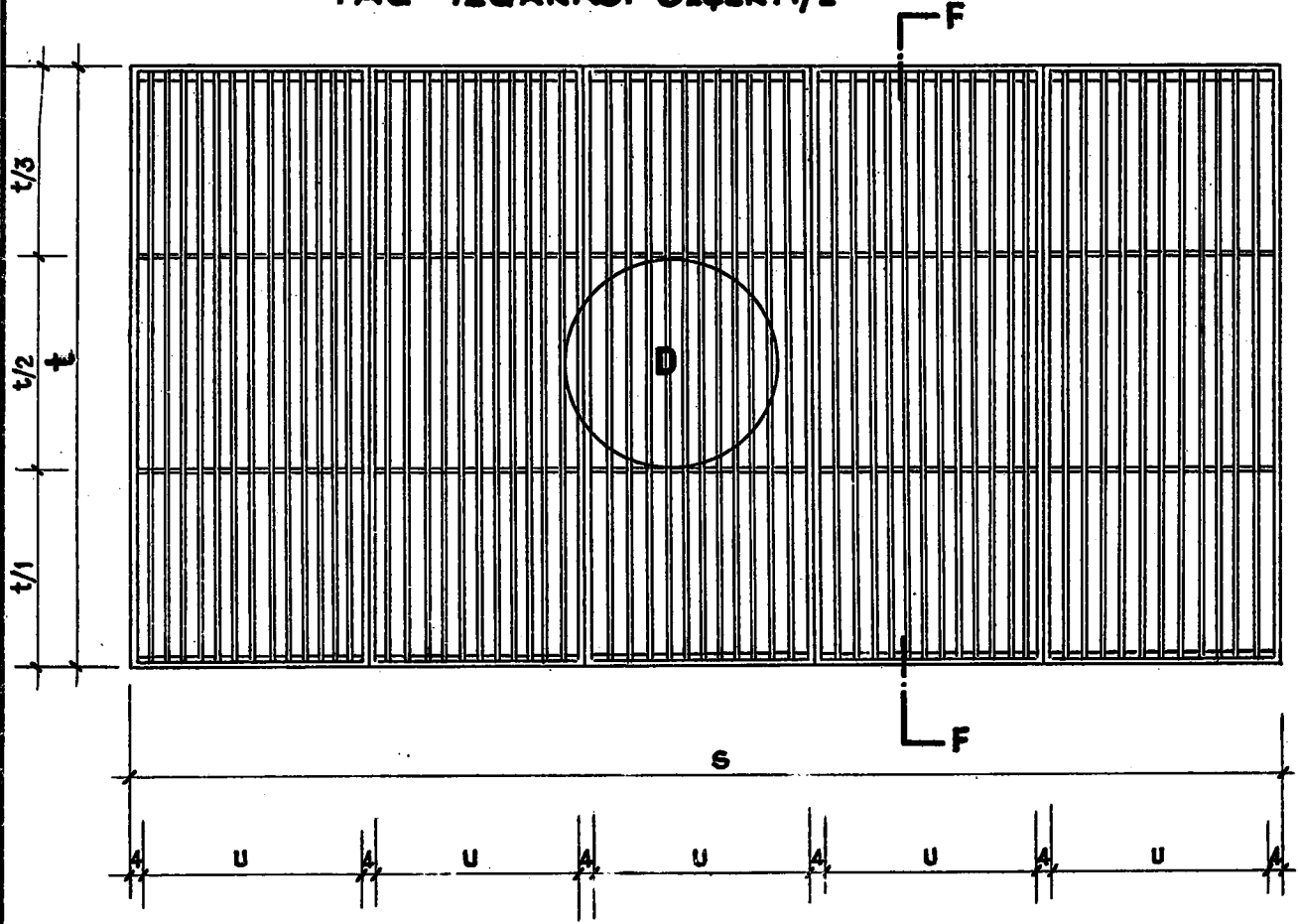
P DETAYI ÖLÇEK: 1/2



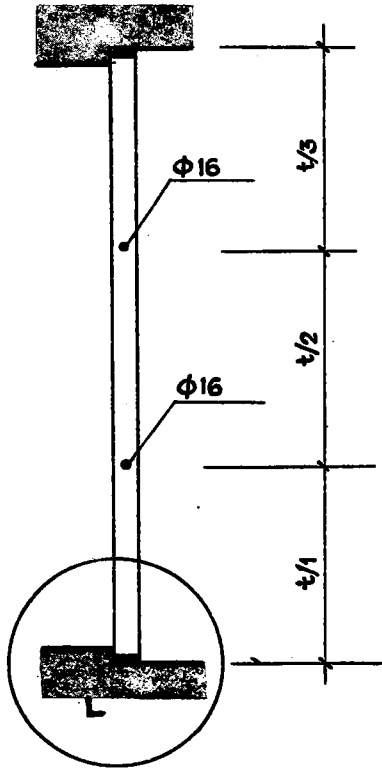
NOT: TRAFO TEKERLEK AÇIKLIĞINA GÖRE İCABINDA LÂMA ÜZERİNE
ENLEME VE BOYUNA PROFİL DEMİRİ KONARAK TRAFO YERLEŞTİ-
RİLECEKTİR.

RAY TAFSİLÂTI ÖLÇEK: 1/10

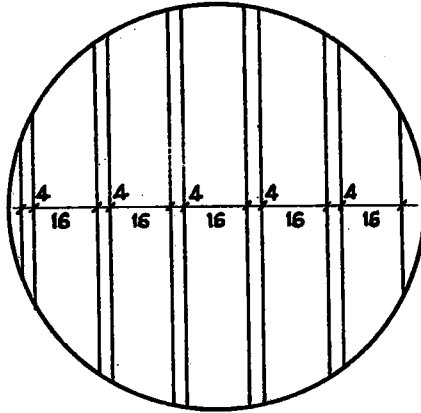
YAĞ IZGARASI ÖLÇEK:1/2



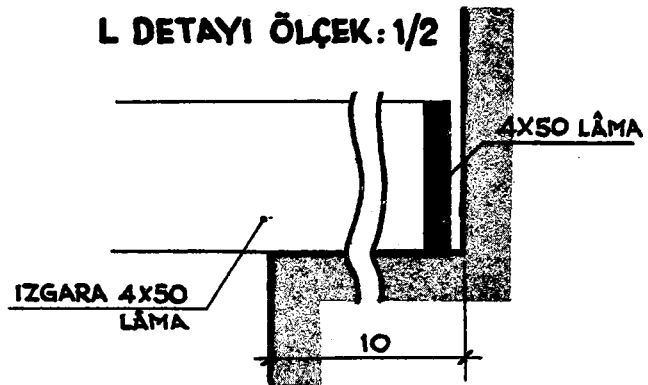
F-F KESİTİ ÖLÇEK:1/2



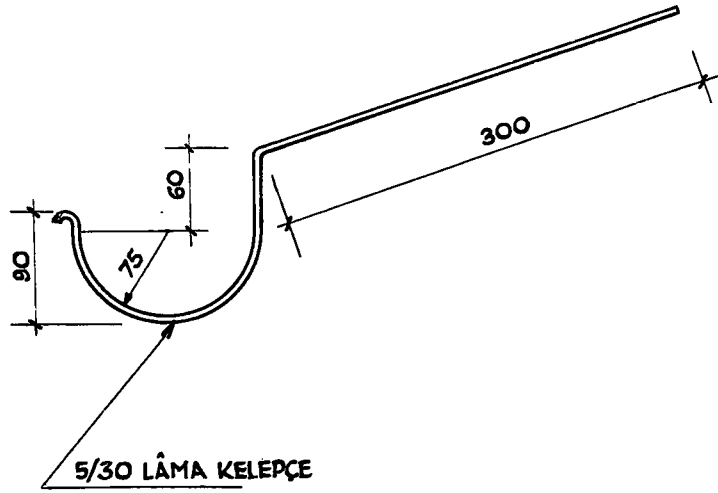
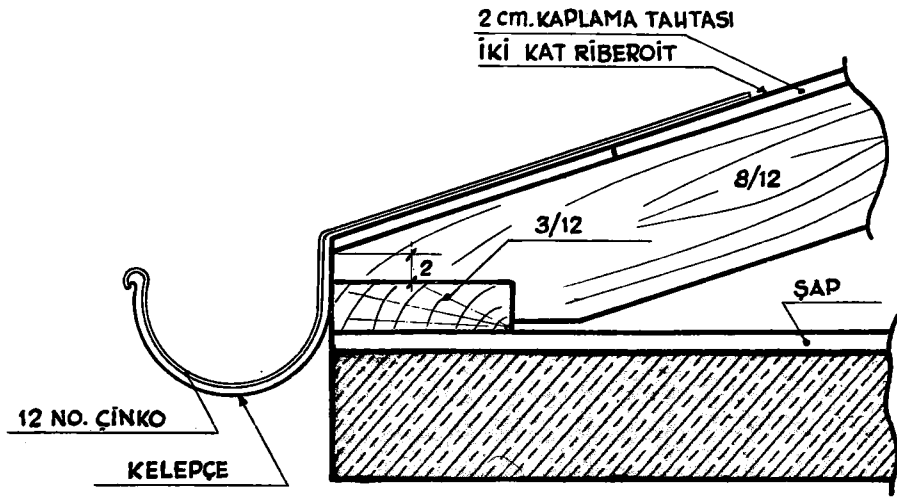
D DETAYI ÖLÇEK:1/2



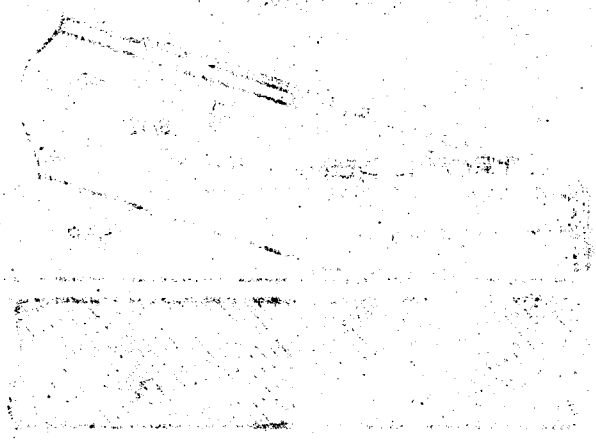
L DETAYI ÖLÇEK:1/2



TRAFO YAĞ ÇUKURU IZGARA DETAYI ÖLÇEK:1/2



ASMA OLUK DETAYI ÖLÇEK: 1/5



AREA 2000 0000 1/2