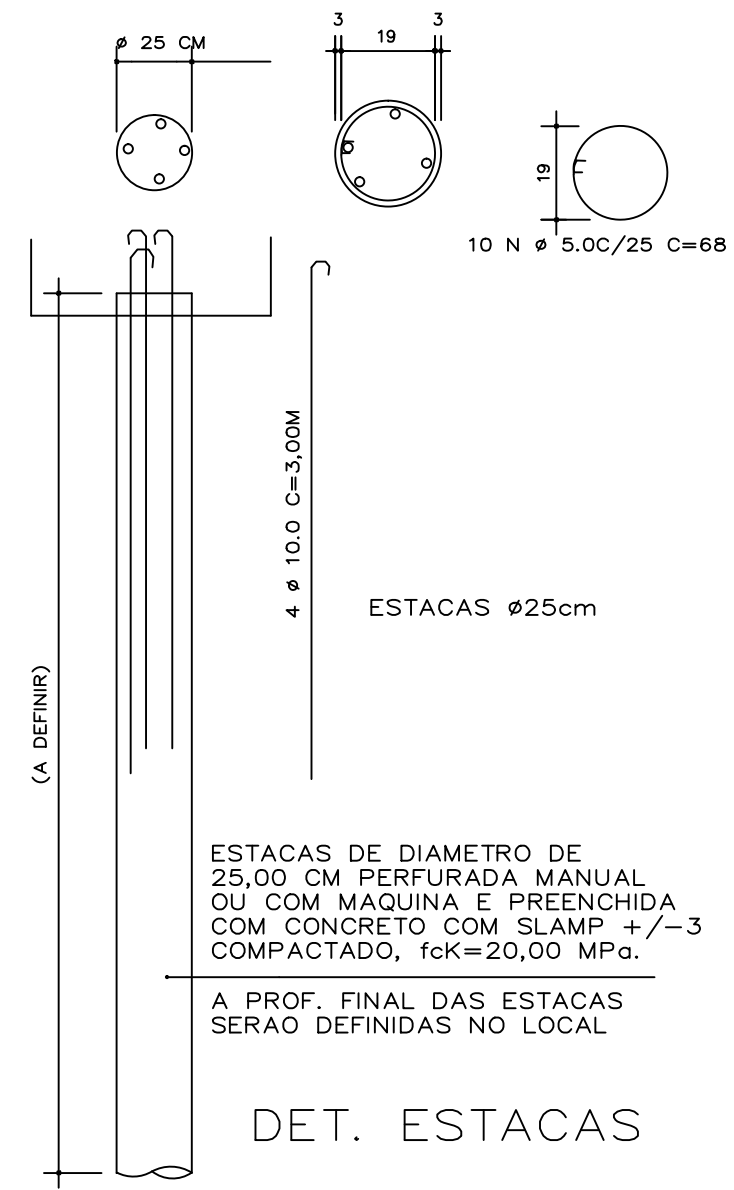
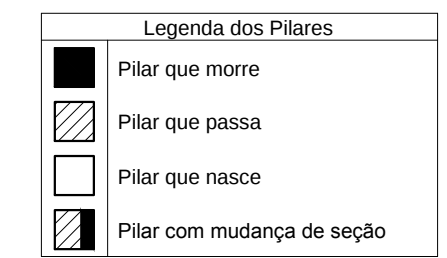
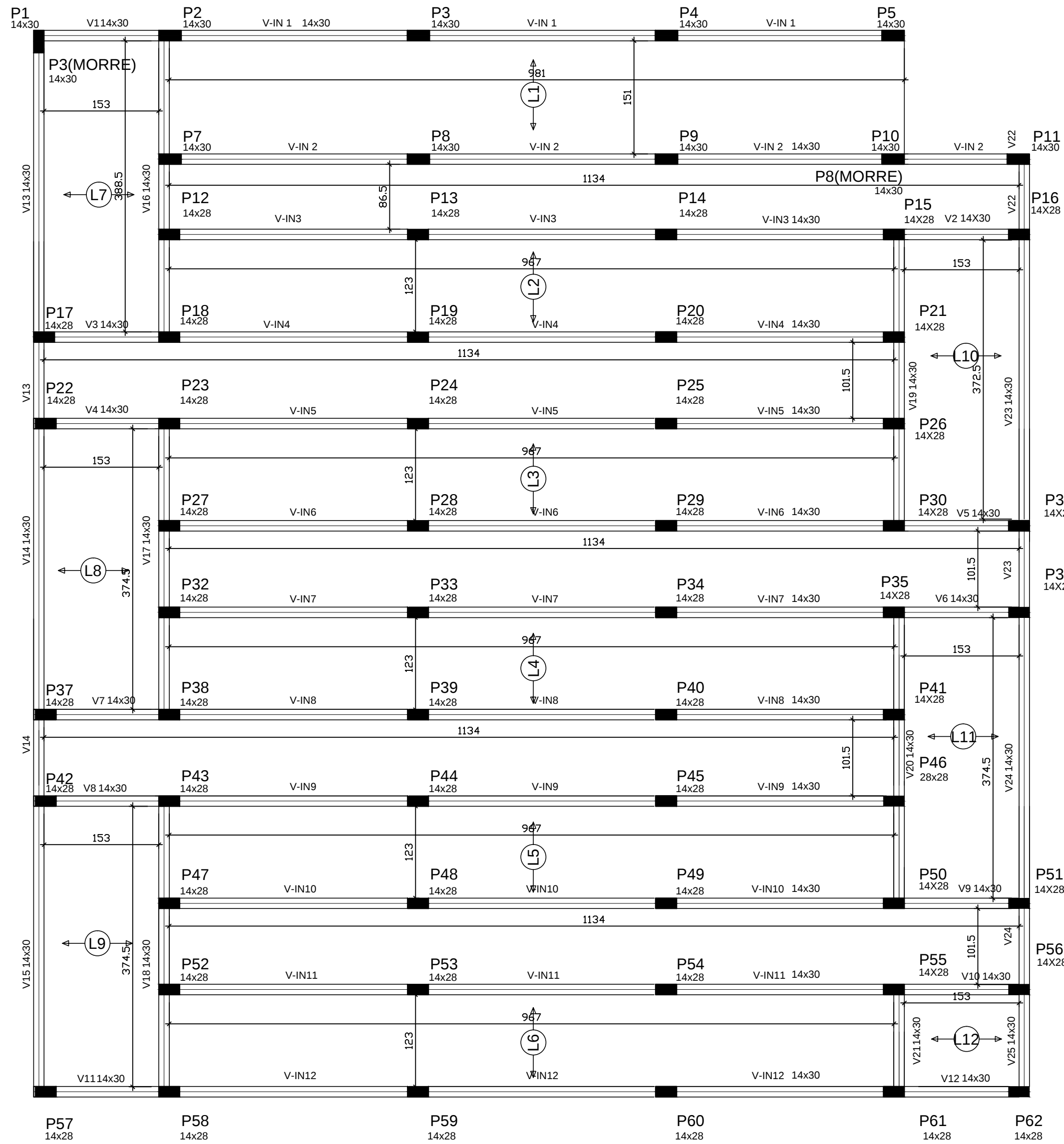
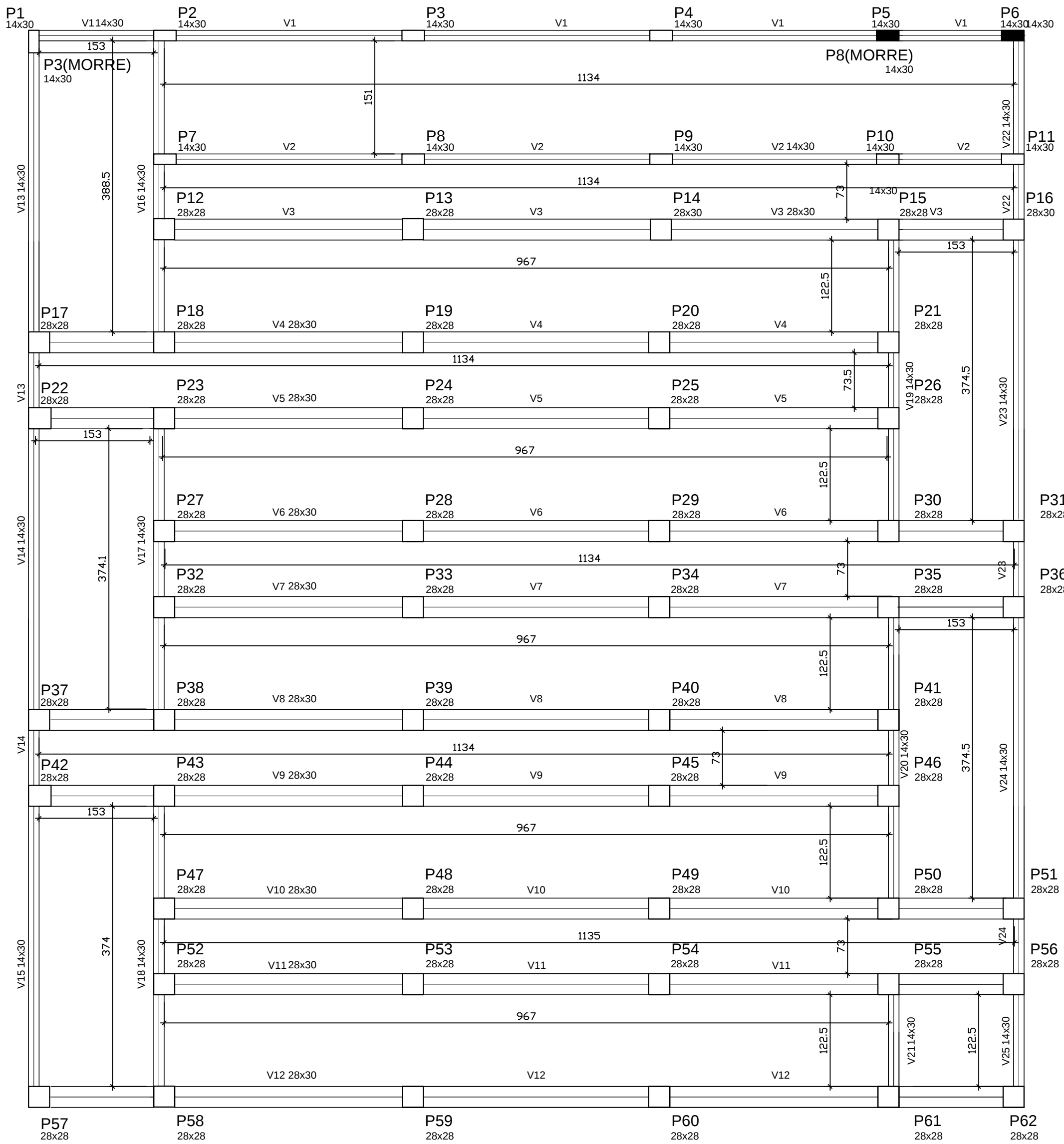




Resumo do aço estacas

AÇO	DIAM (mm)	PESO (kg)
CA50	10.0	451.64
CA60	5.0	63.88

Forma do pavimento Viga Baldrame

escala 1:50

Forma do pavimento Respaldo (inclinadas e patamares)

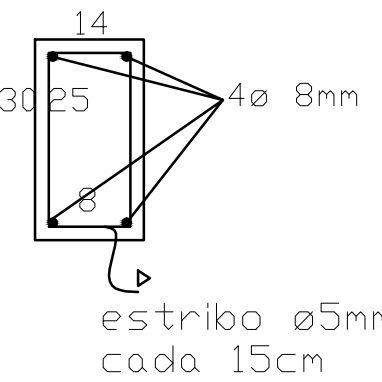
escala 1:50

Viga Baldrame
v1=v2=v13=v14=v15=v16=
v17=v18=v19=v20=v21=v22=
v23=v24=v25
(14x30)

Resumo do aço viga baldrame 14x30

AÇO	DIAM (mm)	PESO (kg)
CA50	8.0	124.26
CA60	5.0	55.55

Volume de concreto (C-20) = 2.82 m³
Área de forma = 42.01 m²



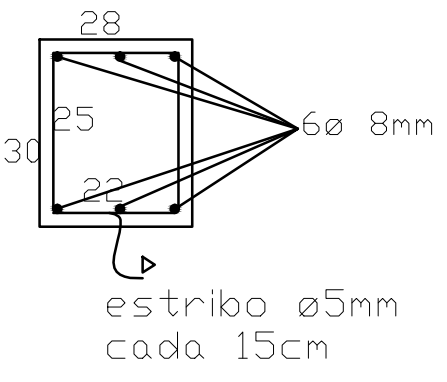
estribo ø5mm
cada 15cm

Viga Baldrame
V3=V4=V5=V6=V7=V8=V9=
V10=V11=V12
(28x30)

Resumo do aço viga baldrame 28x30

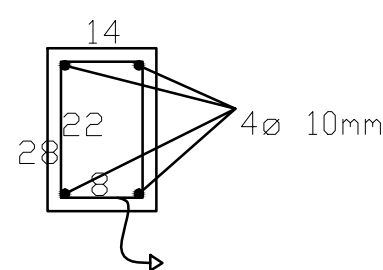
AÇO	DIAM (mm)	PESO (kg)
CA50	8.0	284.66
CA60	5.0	120.95

Volume de concreto (C-20) = 9.91 m³
Área de forma = 68.67 m²



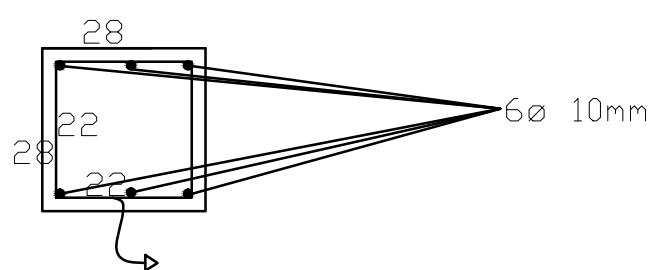
estribo ø5mm
cada 15cm

Pilar P1 AO P11
(14x30)



estribo ø5mm
cada 15cm

Pilar P12 AO P62
(28x28)



estribo ø5mm
cada 15cm

Resumo do aço Pilares

AÇO	DIAM (mm)	PESO (kg)
CA50	10.0	287.47
CA60	5.0	60.63

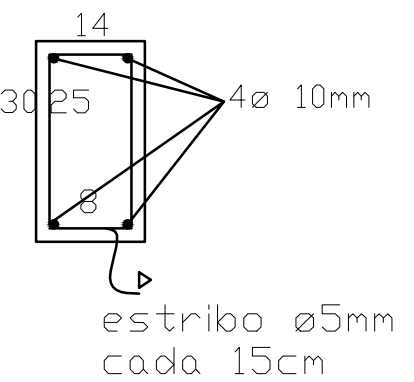
Volume de concreto (C-20) = 4.48 m³
Área de forma = 72.24 m²

Viga Patamares
v1=v2=v3=v4=v5=v6=v7=v8=v9=v10=
v11=v12=v13=v14=v15=v16=v17=v18=
v19=v20=v21=v22=v23=v24=v25
(14x30)

Resumo do aço viga patamares 14x30

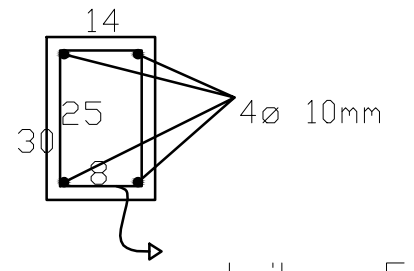
AÇO	DIAM (mm)	PESO (kg)
CA50	10.0	180.19
CA60	5.0	50.49

Volume de concreto (C-20) = 2.82 m³
Área de forma = 34.92 m²



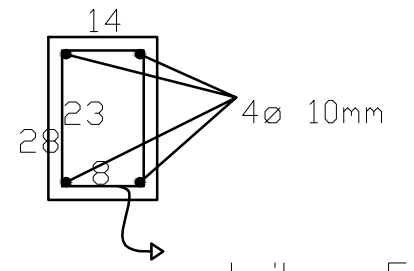
estribo ø5mm
cada 15cm

Pilar P1 AO P5
(14x30)



estribo ø5mm
cada 15cm

Pilar P7 AO P62
(14x30)



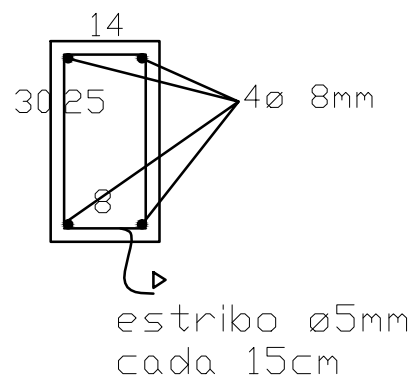
estribo ø5mm
cada 15cm

Vigas Inclinadas
V-IN1=V-IN2=V-IN3=V-IN4=V-IN5=
V-IN6=V-IN7=V-IN8=V-IN9=
V-IN10=V-IN11=V-IN12
(14x30)

Resumo do aço vigas inclinadas 14x30

AÇO	DIAM (mm)	PESO (kg)
CA50	8.0	201.27
CA60	5.0	91.40

Volume de concreto (C-20) = 5.10 m³
Área de forma = 73 m²



estribo ø5mm
cada 15cm

PROJETO ESTRUTURAL

OBRA: RAMPA DE ACESSO MEU CAMPINHO		
ENDEREÇO: UBIRATA		
RESPONSÁVEL TÉCNICO: EDUARDO FELIPE MANFE		
CREA: 135944/D -PR		
Conteúdo: PILARES E VIGAS FORMAS		
PAYMENTO: RAMPA	UNIDADE: cm	TOTAL DE PRANCHAS: 02
PROPRIETÁRIO: PREFEITURA MUNICIPAL DE UBIRATA		
DESENHO: EDUARDO	DATA: 23/03/2018	FOLHA: 01 / 02