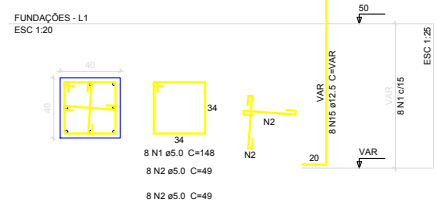
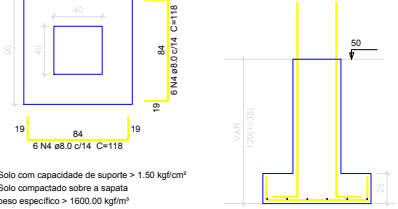


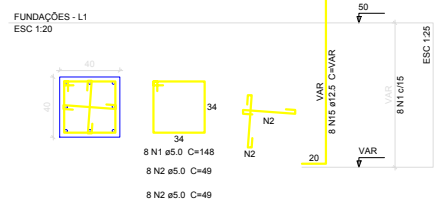
P1=P7=P8=P9=P10=P11=P12=P13=P14=P20



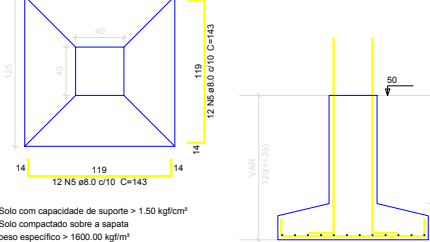
S1=S7=S8=S9=S10=S11=S12=S13=S14=S20



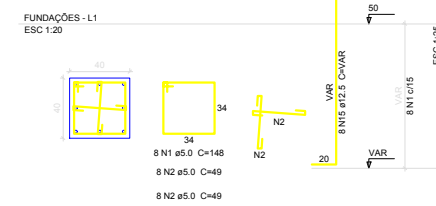
P2=P3=P4=P6=P15=P17=P18=P19



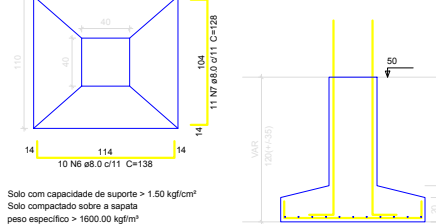
S2=S3=S4=S6=S15=S17=S18=S19



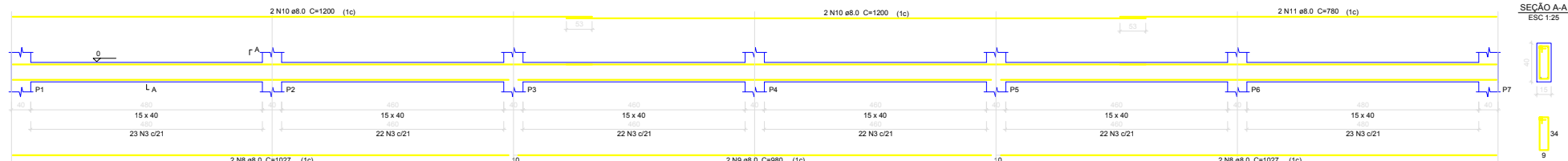
P5=P16



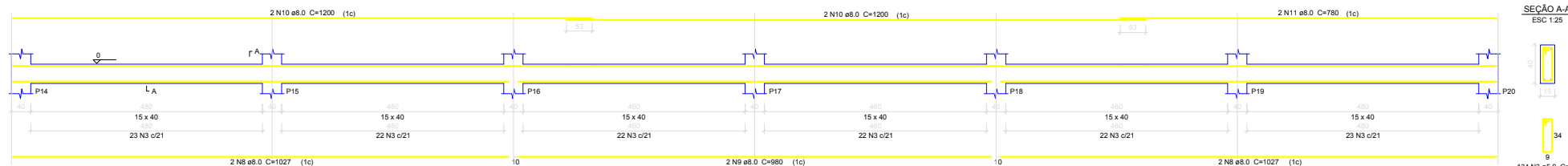
S5=S16



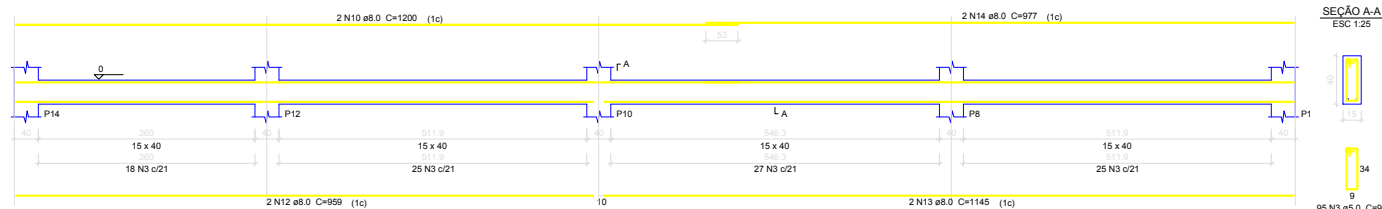
VB1



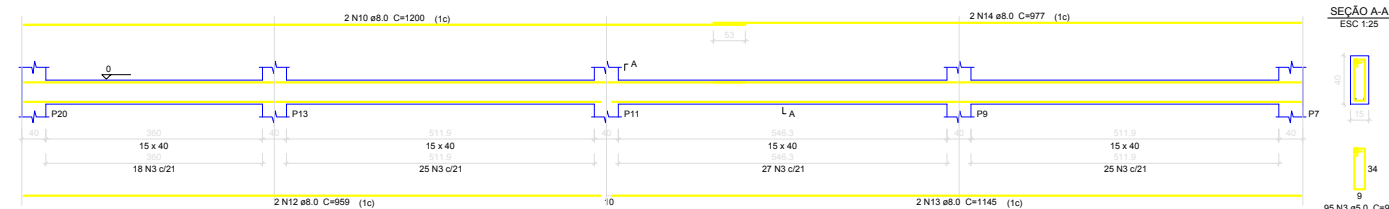
VB2



VB3



VB4



Relação do aço

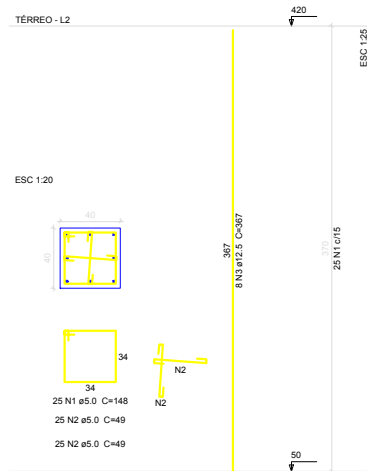
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	160	148	23680
	2	5.0	320	49	15680
	3	5.0	458	98	44984
CA50	4	8.0	120	118	14160
	5	8.0	192	143	27456
	6	8.0	20	138	2760
	7	8.0	22	138	2816
	8	8.0	8	1027	8216
	9	8.0	4	980	3920
	10	8.0	12	1200	14400
	11	8.0	4	780	3120
	12	8.0	4	959	3836
	13	8.0	4	1145	4580
	14	8.0	4	977	3908
	15	12.5	160	VAR	VAR

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	891.8	387
CA60	12.5	294.4	312
CA60	5.0	842.5	142.8
PESO TOTAL			
CA50			699
CA60			142.8

Vol. de concreto total (C-25) = 15.87 m³
Área de forma total = 156.23 m²

P1=P2=P3=P4=P5=P6=P7=P8=P9=P10=P11=P12
=P13=P14=P15=P16=P17=P18=P19=P20



Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	500	148	74000
CA60	2	5.0	1000	49	49000
CA50	3	12.5	160	387	58720

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	12.5	587.2	622.2
CA60	5.0	1230	208.5
PESO TOTAL			
CA50			622.2
CA60			208.5

Vol. de concreto total (C-25) = 11.84 m³
Área de forma total = 118.4 m²

PREFEITURA MUNICIPAL DE TUCUMÃ

Rua do Canavial, s/n - Morumbi - CEP. 68.385-000 - CNPJ. 22.981.088/0001-02 - Tucumã - PA
FONE: (94) 3433-1316 / 3433-1074

PROJETO: **CONSTRUÇÃO DE QUADRAS POLIESPORTIVAS COBERTAS**

ORGÃO PROPONENTE: **PREFEITURA MUNICIPAL DE TUCUMÃ**

PREFEITO MUNICIPAL: **ADELAR PELEGRINI**

RESPONSÁVEL TÉCNICO: **SAMUEL JOHNY AQUINO DE CASTRO ENGENHEIRO CIVIL - CREA Nº 151526591-9**

REFERÊNCIA: **PROJETO ESTRUTURAL** PRANCHA: **04/04**

ÁREA CONSTRUIDA: **653,60 m²** ESCALA: **1 : 50** PROJETO NÚMERO: **01/2018**
DESENHO CAD: **SAMUEL JOHNY A. DE CASTRO** DATA: **ABRIL/2018** REVISÃO: **00**