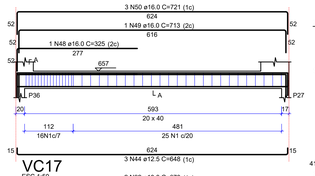
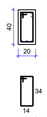
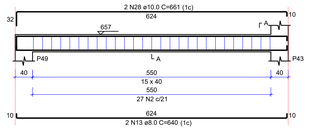
VC11
ESC 1:50



SEÇÃO A-A
ESC 1:25

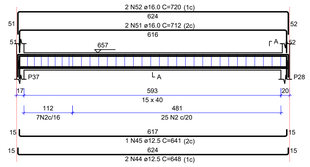


VC12
ESC 1:50

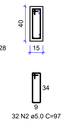


SEÇÃO A-A
ESC 1:25

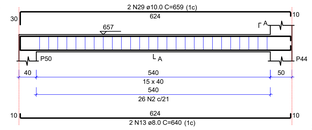
VC13
ESC 1:50



SEÇÃO A-A
ESC 1:25

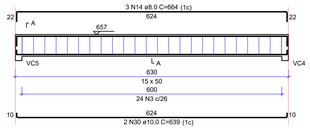


VC14
ESC 1:50

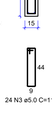


SEÇÃO A-A
ESC 1:25

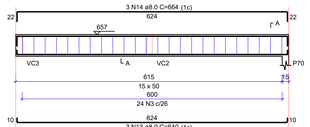
VC15
ESC 1:50



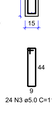
SEÇÃO A-A
ESC 1:25



VC16
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

VC11 VC12 VC13
VC14 VC15 VC16
VC17 VC18 VC19
VC20 VC21 VC22
VC23 VC24 VC25

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	41	107	4387
	2	5.0	237	97	22989
	3	5.0	48	117	5616
	4	5.0	52	137	7124
	5	5.0	1	101	101
	6	5.0	1	151	151
	7	5.0	107	151	16157
	8	6.3	14	1196	16744
	9	6.3	6	349	2094
	10	6.3	4	850	3400
	11	6.3	8	1200	9600
	12	6.3	8	137	1096
	13	8.0	9	640	5760
	14	8.0	6	664	3984
	15	8.0	3	1080	3240
	16	8.0	3	173	519
	17	8.0	3	370	1110
	18	8.0	2	898	1796
	19	8.0	3	863	2589
	20	8.0	2	195	390
	21	8.0	1	233	233
	22	8.0	3	239	717
	23	8.0	2	190	380
	24	8.0	2	225	450
	25	8.0	3	267	801
	26	8.0	2	215	430
	27	8.0	2	249	498
	28	10.0	2	661	1322
	29	10.0	2	659	1318
	30	10.0	2	639	1278
	31	10.0	1	264	264
	32	10.0	2	670	1340
	33	10.0	1	420	420
	34	10.0	2	1198	2396
	35	10.0	2	422	844
	36	10.0	2	934	1868
	37	10.0	1	904	904
	38	10.0	2	914	1828
	39	10.0	1	139	139
	40	10.0	4	1198	4792
	41	10.0	1	1193	1193
	42	10.0	4	202	808
	43	10.0	3	1200	3600
	44	12.5	5	648	3240
	45	12.5	1	641	641
	46	12.5	2	241	482
	47	12.5	2	248	496
	48	16.0	1	325	325
	49	16.0	1	713	713
	50	16.0	3	721	2163
	51	16.0	2	712	1424
	52	16.0	2	720	1440
	53	16.0	4	1196	4784
	54	16.0	4	1200	4800
	55	16.0	2	330	660
	56	16.0	2	338	676

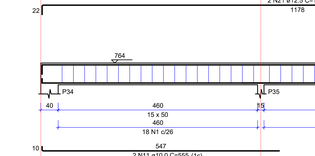
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	329.3	80.0
	8.0	229	90.0
	10.0	243.1	149.0
	12.5	48.6	47.0
	16.0	169.8	266.0
CA60	5.0	565.3	87.0

PESO TOTAL (kg)	
CA50	632.0
CA60	87.0

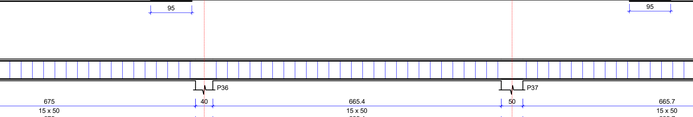
Volume de concreto (C-25) = 7.82 m³
Área de forma = 111.22 m²

VC17
ESC 1:50



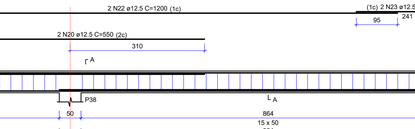
SEÇÃO A-A
ESC 1:25

VC18
ESC 1:50

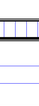


SEÇÃO A-A
ESC 1:25

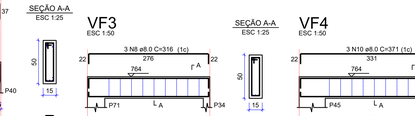
VC19
ESC 1:50



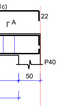
SEÇÃO A-A
ESC 1:25



VC20
ESC 1:50

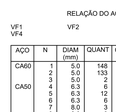


SEÇÃO A-A
ESC 1:25

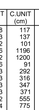


SUSPENSÃO VC5
ESC 1:25

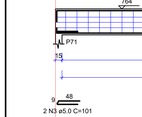
VC21
ESC 1:50



SEÇÃO A-A
ESC 1:25

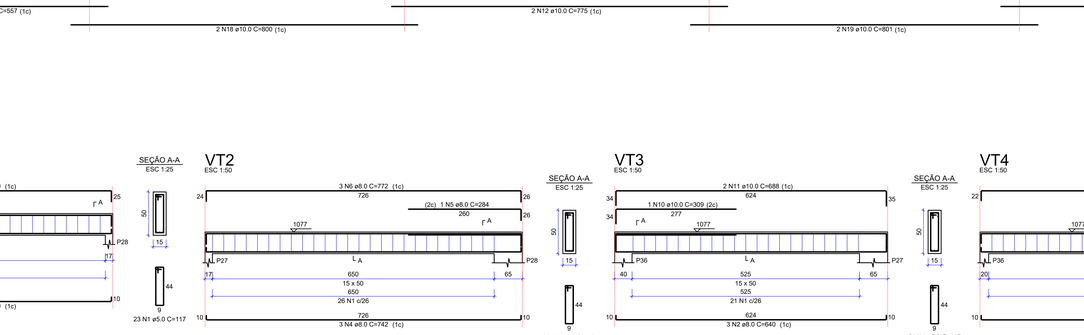


VC24
ESC 1:50

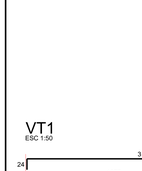


SEÇÃO A-A
ESC 1:25

VC25
ESC 1:50



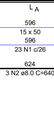
VC22
ESC 1:50



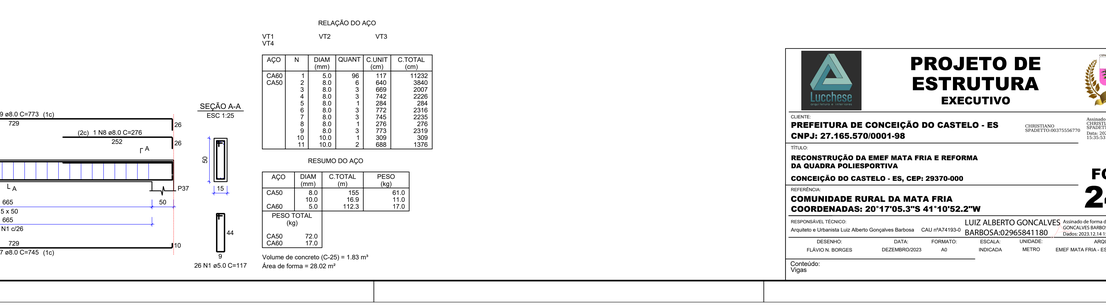
SEÇÃO A-A
ESC 1:25

VC23
ESC 1:50

SEÇÃO A-A
ESC 1:25



VC26
ESC 1:50



SEÇÃO A-A
ESC 1:25

SEÇÃO A-A
ESC 1:25

VF1
ESC 1:50

SEÇÃO A-A
ESC 1:25

VF3
ESC 1:50

SEÇÃO A-A
ESC 1:25

VF4
ESC 1:50

SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

VF1 VF2 VF3
VF4

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	148	117	17316
	2	5.0	133	137	18221
	3	5.0	2	101	202
CA50	4	6.3	6	1196	7176
	5	6.3	12	1200	14400
	6	6.3	1	91	546
	7	8.0	3	292	876
	8	8.0	3	316	948
	9	8.0	3	347	1041
	10	8.0	3	371	1113
	11	10.0	2	555	1110
	12	10.0	4	775	3100
	13	10.0	2	765	1530
	14	10.0	2	766	1532
	15	10.0	1	933	933
	16	10.0	6	936	5616
	17	10.0	2	557	1114
	18	10.0	2	800	1600
	19	10.0	2	801	1602
	20	12.5	2	550	1100
	21	12.5	2	1197	2394
	22	12.5	8	1200	9600
	23	12.5	2	275	550
	24	12.5	1	500	500
	25	12.5	1	530	530
	26	12.5	2	1197	2394
	27	12.5	2	268	536

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	221.2	54.0
	8.0	39.8	16.0
	10.0	181.4	111.0
	12.5	176	168.0
CA60	5.0	357.4	55.0

PESO TOTAL (kg)	
CA50	349.0
CA60	55.0

Volume de concreto (C-25) = 5.92 m³
Área de forma = 89.76 m²

VF2
ESC 1:50

SEÇÃO A-A
ESC 1:25

VT1
ESC 1:50

SEÇÃO A-A
ESC 1:25

VT2
ESC 1:50

SEÇÃO A-A
ESC 1:25

VT3
ESC 1:50

SEÇÃO A-A
ESC 1:25

VT4
ESC 1:50

SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

VT1 VT2 VT3
VT4

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	96	117	11232
CA50	2	8.0	6	640	3840
	3	8.0	3	669	2007
	4	8.0	3	742	2226
	5	8.0	1	284	284
	6	8.0	3	772	2316
	7	8.0	3	745	2235
	8	8.0	1	276	276
	9	8.0	3	773	2319
	10	10.0	1	309	309
	11	10.0	2	688	1376

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	155	61.0
	10.0	16.9	11.0
CA60	5.0	112.3	17.0

PESO TOTAL (kg)	
CA50	72.0
CA60	17.0

Volume de concreto (C-25) = 1.83 m³
Área de forma = 28.02 m²

Lucchese Engenharia

PROJETO DE ESTRUTURA
EXECUTIVO

CLIENTE:
PREFEITURA DE CONCEIÇÃO DO CASTELO - ES
CNPJ: 27.165.570/0001-98

CRISTSTIANO SPADETTI:96375556770

TÍTULO:
RECONSTRUÇÃO DA EMEF MATA FRIA E REFORMA DA QUADRA POLIESPORTIVA
CONCEIÇÃO DO CASTELO - ES, CEP: 29370-000

REFERÊNCIA:
COMUNIDADE RURAL DA MATA FRIA
COORDENADAS: 20°17'05.3"S 41°10'52.2"W

FOLHA **24/28**

RESPONSÁVEL TÉCNICO:
Arquiteto e Urbanista Luiz Alberto Gonçalves Barbosa
LUIZ ALBERTO GONCALVES BARBOSA:02965841180
CAU nº A74193-3

DESENHO: FLÁVIO N. BORGES
DATA: DEZEMBRO/2023
FORMATO: A0
ESCALA: INDICADA
UNIDADE: METRO
ARQUIVO: EMEF MATA FRIA - ESTRUTURAL - R02.dwg

Conteúdo:
Vigas