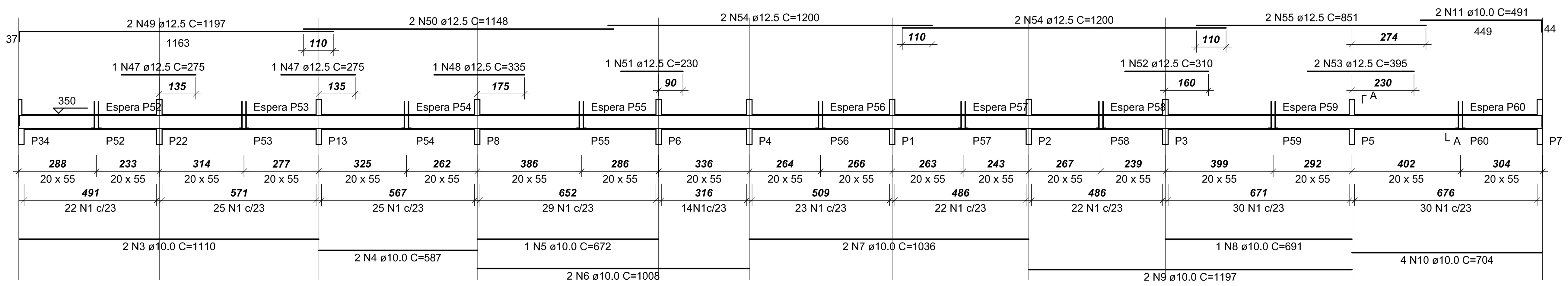
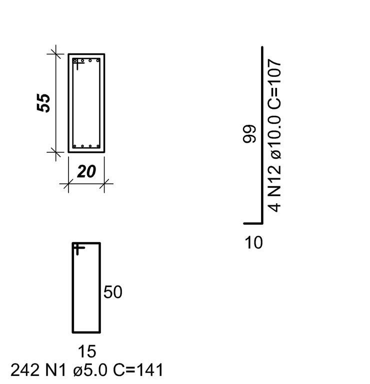
V1 (20 x 55)
ESC 1:100

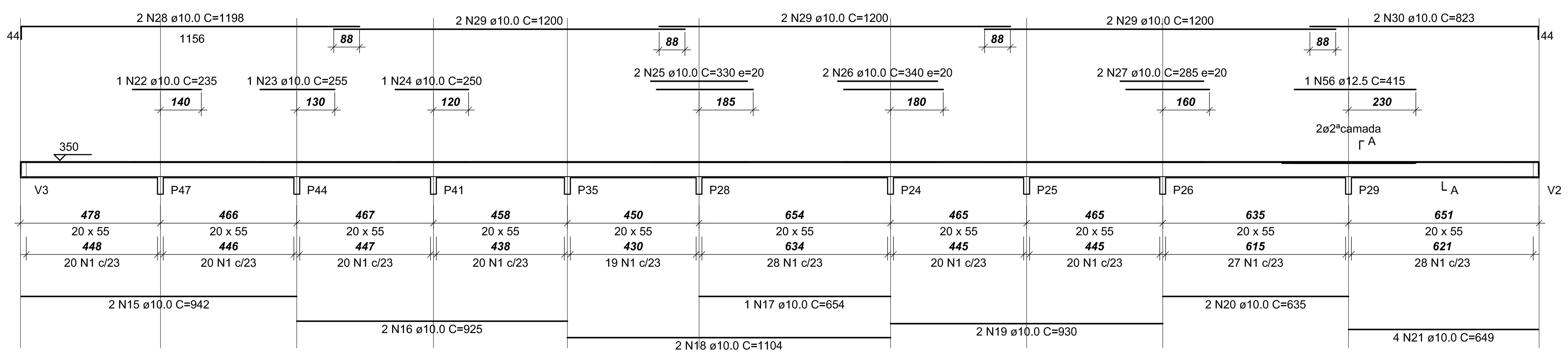


SEÇÃO A-A
ESC 1:25

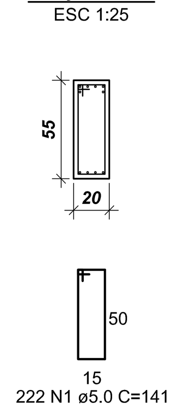
ESPERA P52 (x9)
ESC 1:25



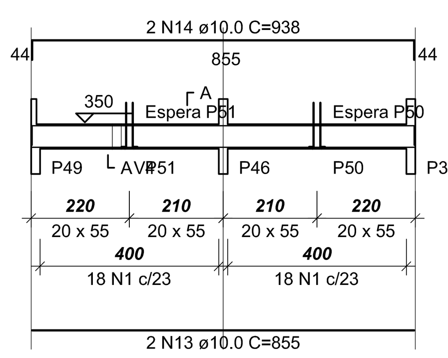
V4 (20 x 55)
ESC 1:100



SEÇÃO A-A
ESC 1:25



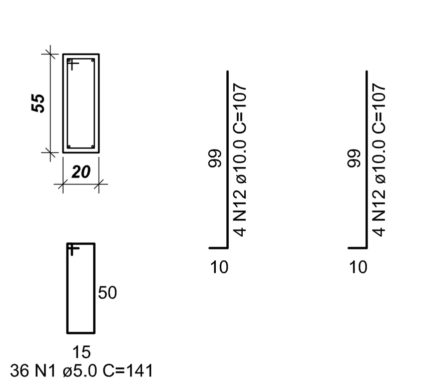
V3 (20 x 55)
ESC 1:100



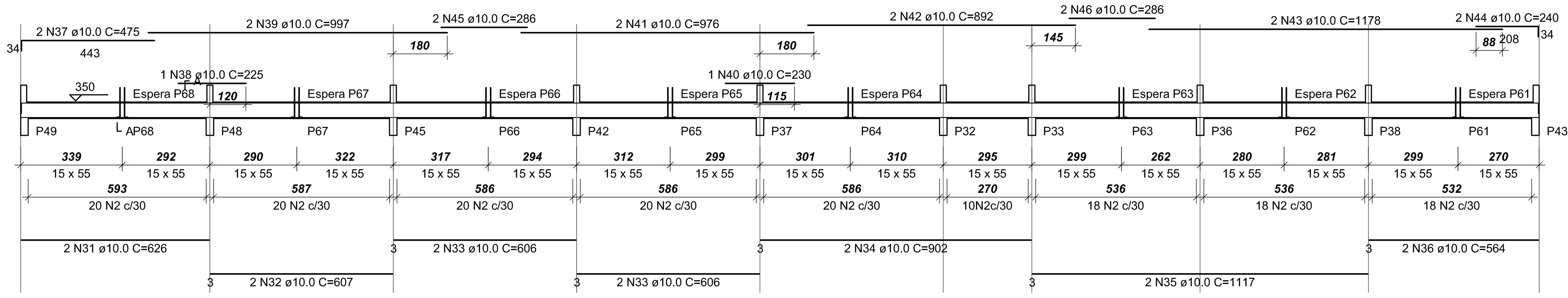
SEÇÃO A-A
ESC 1:25

ESPERA P51
ESC 1:25

ESPERA P50
ESC 1:25

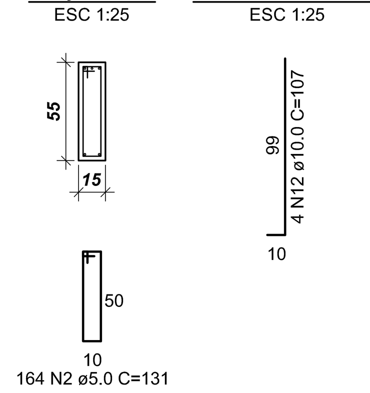


V5 (15 x 55)
ESC 1:100

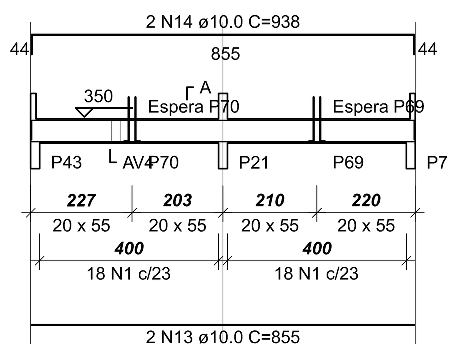


SEÇÃO A-A
ESC 1:25

ESPERA P68 (x8)
ESC 1:25



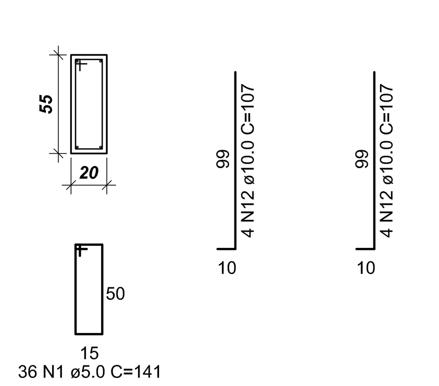
V2 (20 x 55)
ESC 1:100



SEÇÃO A-A
ESC 1:25

ESPERA P70
ESC 1:25

ESPERA P69
ESC 1:25



RELAÇÃO DO AÇO
VIGAS DA COBERTURA

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	536	141	75576
	2	5.0	164	131	21484
50	3	10.0	2	1110	2220
	4	10.0	2	587	1174
	5	10.0	1	672	672
	6	10.0	2	1008	2016
	7	10.0	2	1036	2072
	8	10.0	1	691	691
	9	10.0	2	1197	2394
	10	10.0	4	704	2816
	11	10.0	2	491	982
	12	10.0	84	107	8988
	13	10.0	4	855	3420
	14	10.0	4	938	3752
	15	10.0	2	942	1884
	16	10.0	2	925	1850
	17	10.0	1	654	654
	18	10.0	2	1104	2208
	19	10.0	2	930	1860
	20	10.0	2	635	1270
	21	10.0	4	649	2596
	22	10.0	1	235	235
	23	10.0	1	255	255
	24	10.0	1	250	250
	25	10.0	2	330	660
	26	10.0	2	340	680
	27	10.0	2	285	570
	28	10.0	2	1198	2396
	29	10.0	6	1200	7200
	30	10.0	2	823	1646
	31	10.0	2	626	1252
	32	10.0	2	607	1214
	33	10.0	4	606	2424
	34	10.0	2	902	1804
	35	10.0	2	1117	2234
	36	10.0	2	564	1128
	37	10.0	2	475	950
	38	10.0	1	225	225
	39	10.0	2	997	1994
	40	10.0	1	230	230
	41	10.0	2	976	1952
	42	10.0	2	892	1784
	43	10.0	2	1178	2356
	44	10.0	2	240	480
	45	10.0	2	286	572
	46	10.0	2	286	572
	47	12.5	2	275	550
	48	12.5	1	335	335
	49	12.5	2	1197	2394
	50	12.5	2	1148	2296
	51	12.5	1	230	230
	52	12.5	1	310	310
	53	12.5	2	395	790
	54	12.5	4	1200	4800
	55	12.5	2	851	1702
	56	12.5	1	415	415

RESUMO DO AÇO

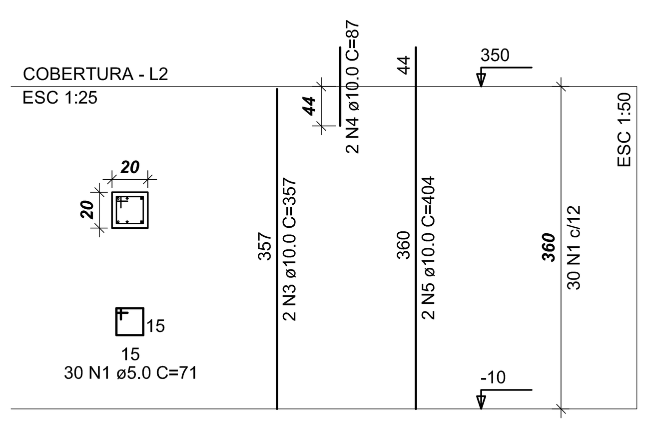
AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	10.0	785.6	484.5
	12.5	138.2	133.2
CA60	5.0	974.1	150.0

PESO TOTAL	
CA50	617.7
CA60	150.0

Vol. de concreto total (C-20) =17.99 m³
Área de forma total = 226.53 m²

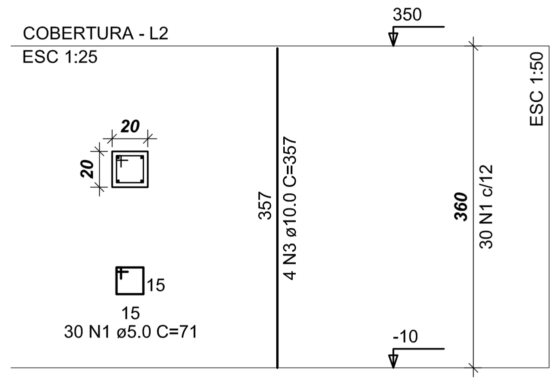
P1=P2=P3=P4=P5
P6=P8=P13=P21
P22=P34=P46

COBERTURA - L2
ESC 1:25



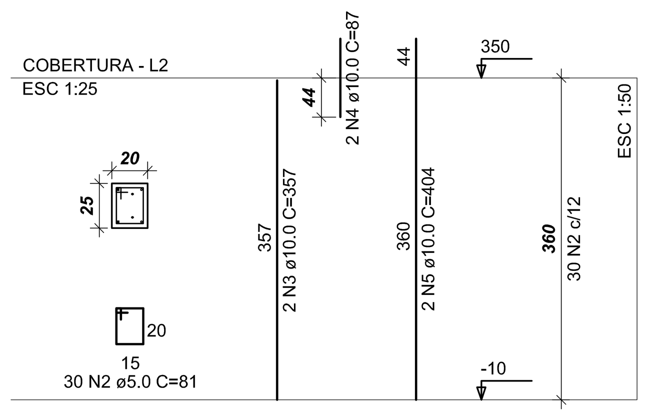
P24=P25=P26
P28=P29=P35
P41=P44=P47

COBERTURA - L2
ESC 1:25



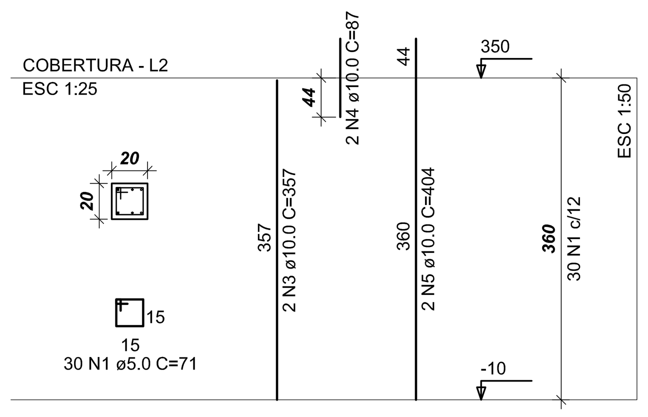
P32=P33=P36=P37
P38=P42=P43=P45
P48=P49

COBERTURA - L2
ESC 1:25



P7

COBERTURA - L2
ESC 1:25



RELAÇÃO DO AÇO
PILARES QUE SUPORTAM A COBERTURA

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	660	71	46860
	2	5.0	300	81	24300
50	3	10.0	82	357	29274
	4	10.0	46	87	4002
	5	10.0	46	404	18584

RESUMO DO AÇO

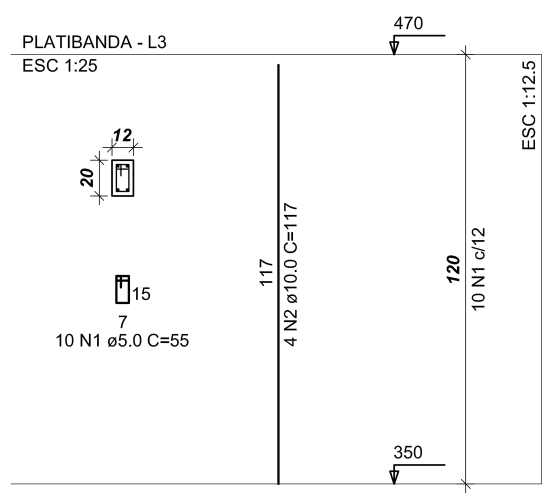
AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	10.0	518.6	319.8
CA60	5.0	716.4	110.3

PESO TOTAL	
CA50	319.8
CA60	110.3

Vol. de concreto total (C-20) =4.97 m³
Área de forma total = 95.76 m²

P1=P2=P3=P4=P5=P6=P7=P8=P13=P21=P22
P32=P33=P34=P36=P37=P38=P42=P43=P45
P46=P48=P49=P50=P51=P52=P53=P54=P55
P56=P57=P58=P59=P60=P61=P62=P63=P64
P65=P66=P67=P68=P69=P70

PLATIBANDA - L3
ESC 1:25



RELAÇÃO DO AÇO
PILARES QUE SUPORTAM A PLATIBANDA

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	440	55	24200
50	2	10.0	176	117	20592

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	10.0	205.9	127.0
CA60	5.0	244.2	37.6

PESO TOTAL	
CA50	127.0
CA60	37.6

Vol. de concreto total (C-20) =1.27 m³
Área de forma total = 33.79 m²

Nº:	DATA	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO:
01	19.08.2013		PROJETO ESTRTURAL

AS BUILT ENGENHARIA DE PROJETOS LTDA
Rua Jovino do Rosário, 1564 - Boa Vista
CEP 82560-435 - Curitiba - Paraná
asbuiltprojetos@gmail.com - (41)3088-4949

FASE: PROJETO ESTRUTURAL

CONFERIR MEDIDAS NA OBRA

OBRA: PRÉDIO COPESE / TV
CAMPUS JK / DIAMANTINA
RODOVIA MG 367 - Km 583, Nº5000, ALTO DA JACUBA - DIAMANTINA/MG

PROPRIETÁRIO: UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI
CNPJ 16.888.315/0001-57

PRANCHA: FERRAGEM DAS VIGAS DA COBERTURA
FERRAGEM DOS PILARES

AUTOR PROJETO:
CARLOS HENRIQUE DE SOUZA GONÇALVES
CREA 7982/D - Pr

ESCALA: INDICADA
DESENHO: EQUIPE
VERSÃO: VERSAO 1
DATA: 19/08/2013
ÁREA CONSTRUIDA:
ARQUIVO:
FOLHA: EST 05/06