QUADRO DE CARGAS - SUPORTE

Referência	Grupo	Descrição	Ações em eixos globais					
			Rx	Ry	Rz	Mx	My	Mz
			(kN)	(kN)	(kN)	(kN·m)	(kN·m)	(kN·m)
N4	1	PP	0.078	2.095	-0.019	0.00	0.00	0.00
	2	CP1	0.017	0.515	0.054	0.00	0.00	0.00
		CP2	0.040	4.472	0.068	0.00	0.00	0.00
	3	SC	0.167	5.145	0.536	0.00	0.00	0.00
	4	VX+	-0.113	-1.276	0.191	0.00	0.00	0.00
		VX-	0.057	0.638	-0.096	0.00	0.00	0.00
N14	1	PP	-0.071	-2.075	1.104	0.00	0.00	0.00
	2	CP1	-0.017	-0.512	0.287	0.00	0.00	0.00
		CP2	-0.026	-4.494	2.797	0.00	0.00	0.00
	3	SC	-0.172	-5.120	2.870	0.00	0.00	0.00
	4	VX+	-0.001	0.945	-0.444	0.00	0.00	0.00
		VX-	0.000	-0.473	0.222	0.00	0.00	0.00
N16	1	PP	-0.015	1.073	-0.229	0.00	0.00	0.00
	2	CP1	0.000	0.305	-0.009	0.00	0.00	0.00
		CP2	-0.005	0.726	-0.066	0.00	0.00	0.00
	3	SC	-0.005	3.053	-0.086	0.00	0.00	0.00
	4	VX+	0.043	-0.907	0.046	0.00	0.00	0.00
		VX-	-0.022	0.454	-0.023	0.00	0.00	0.00
N26	1	PP	0.013	-1.089	0.539	0.00	0.00	0.00
	2	CP1	0.003	-0.308	0.166	0.00	0.00	0.00
		CP2	0.004	-0.672	0.357	0.00	0.00	0.00
	3	SC	0.035	-3.084	1.663	0.00	0.00	0.00
	4	VX+	0.001	0.746	-0.344	0.00	0.00	0.00
		VX-	-0.001	-0.373	0.172	0.00	0.00	0.00
N27	1	PP	-0.015	1.121	-0.068	0.00	0.00	0.00
	2	CP1	-0.002	0.328	0.029	0.00	0.00	0.00
		CP2	0.006	4.084	0.081	0.00	0.00	0.00
	3	SC	-0.015	3.281	0.287	0.00	0.00	0.00
	4	VX+	0.010	-0.797	0.105	0.00	0.00	0.00
		VX-	-0.005	0.399	-0.053	0.00	0.00	0.00
N30	1	PP	-0.003	-1.117	0.575	0.00	0.00	0.00
	2	CP1	-0.001	-0.327	0.181	0.00	0.00	0.00
		CP2	0.003	-4.139	2.605	0.00	0.00	0.00
	3	SC	-0.006	-3.272	1.809	0.00	0.00	0.00
	4	VX+	0.000	0.571	-0.242	0.00	0.00	0.00
		VX-	0.000	-0.285	0.121	0.00	0.00	0.00
N32	1	PP	-0.011	1.078	-0.106	0.00	0.00	0.00
	2	CP1	-0.001	0.324	0.019	0.00	0.00	0.00
		CP2	-0.006	0.403	-0.028	0.00	0.00	0.00
	3	SC	-0.011	3.240	0.193	0.00	0.00	0.00
	4	VX+	0.010	-0.872	0.086	0.00	0.00	0.00
		VX-	-0.005	0.436	-0.043	0.00	0.00	0.00
N42	1	PP	0.000	-1.076	0.551	0.00	0.00	0.00
	2	CP1	0.000	-0.323	0.177	0.00	0.00	0.00
		CP2	-0.021	-0.371	0.198	0.00	0.00	0.00
	3	SC	-0.002	-3.229	1.772	0.00	0.00	0.00
	4	VX+	0.000	0.683	-0.310	0.00	0.00	0.00
		VX-	0.000	-0.341	0.155	0.00	0.00	0.00
N43	1	PP	-0.010	1.094	-0.093	0.00	0.00	0.00
	2	CP1	0.002	0.349	0.016	0.00	0.00	0.00
		CP2	0.007	0.113	-0.035	0.00	0.00	0.00
	3	SC	0.020	3.486	0.156	0.00	0.00	0.00
	4	VX+	0.006	-0.895	0.097	0.00	0.00	0.00
		VX-	-0.003	0.447	-0.049	0.00	0.00	0.00
N53	1	PP	0.000	-1.096	0.564	0.00	0.00	0.00
	2	CP1	0.002	-0.349	0.192	0.00	0.00	0.00
		CP2	0.004	-0.122	0.052	0.00	0.00	0.00
	3	SC	0.017	-3.486	1.921	0.00	0.00	0.00
	4	VX+	-0.001	0.706	-0.323	0.00	0.00	0.00
		VX-	0.000	-0.353	0.162	0.00	0.00	0.00
N54	1	PP	-0.005	1.050	-0.099	0.00	0.00	0.00
	2	CP1	-0.005	0.292	0.038	0.00	0.00	0.00
		CP2	-0.003	0.332	-0.040	0.00	0.00	0.00
	3	SC	-0.047	2.918	0.376	0.00	0.00	0.00
	4	VX+	0.007	-0.756	0.070	0.00	0.00	0.00
		VX-	-0.004	0.378	-0.035	0.00	0.00	0.00
N57	1	PP	-0.005	-1.055	0.537	0.00	0.00	0.00
	2	CP1	-0.008	-0.293	0.154	0.00	0.00	0.00
		CP2	0.000	-0.321	0.160	0.00	0.00	0.00
	3	SC	-0.082	-2.929	1.536	0.00	0.00	0.00
	4	VX+	0.009	0.540	-0.220	0.00	0.00	0.00
		VX-	-0.005	-0.270	0.110	0.00	0.00	0.00
N59	1	PP	-0.009	1.042	-0.096	0.00	0.00	0.00
	2	CP1	0.003	0.290	0.038	0.00	0.00	0.00
		CP2	-0.004	4.484	0.067	0.00	0.00	0.00
	3	SC	0.034	2.897	0.381	0.00	0.00	0.00
	4	VX+	0.003	-0.838	0.073	0.00	0.00	0.00
		VX-	-0.002	0.419	-0.036	0.00	0.00	0.00
N69	1	PP	0.005	-1.040	0.529	0.00	0.00	0.00
	2	CP1	0.008	-0.290	0.152	0.00	0.00	0.00
		CP2	0.000	-4.496	2.809	0.00	0.00	0.00
	3	SC	0.082	-2.899	1.520	0.00	0.00	0.00
	4	VX+	-0.009	0.646	-0.283	0.00	0.00	0.00
		VX-	0.004	-0.323	0.142	0.00	0.00	0.00
N70	1	PP	-0.003	1.092	-0.095	0.00	0.00	0.00
	2	CP1	-0.003	0.347	0.015	0.00	0.00	0.00
		CP2	0.009	4.700	0.060	0.00	0.00	0.00
	3	SC	-0.033	3.470	0.153	0.00	0.00	0.00
	4	VX+	0.005	-0.891	0.096	0.00	0.00	0.00
		VX-	-0.003	0.446	-0.048	0.00	0.00	0.00
N80	1	PP	-0.001	-1.094	0.563	0.00	0.00	0.00
	2	CP1	-0.002	-0.347	0.191	0.00	0.00	0.00
		CP2	0.004	-4.693	2.914	0.00	0.00	0.00
	3	SC	-0.018	-3.470	1.914	0.00	0.00	0.00
	4	VX+	0.002	0.702	-0.322	0.00	0.00	0.00
		VX-	-0.001	-0.351	0.161	0.00	0.00	0.00
N81	1	PP	-0.001	1.097	-0.097	0.00	0.00	0.00
	2	CP1	0.000	0.326	0.022	0.00	0.00	0.00
		CP2	0.006	4.418	0.062	0.00	0.00	0.00
	3	SC	0.001	3.263	0.217	0.00	0.00	0.00
	4	VX+	0.002	-0.796	0.087	0.00	0.00	0.00
		VX-	-0.001	0.398	-0.043	0.00	0.00	0.00
N84	1	PP	0.000	-1.098	0.564	0.00	0.00	0.00
	2	CP1	0.000	-0.326	0.179	0.00	0.00	0.00
		CP2	-0.017	-4.445	2.774	0.00	0.00	0.00
	3	SC	0.003	-3.259	1.793	0.00	0.00	0.00
	4	VX+	0.000	0.576	-0.247	0.00	0.00	0.00
		VX-	0.000	-0.288	0.123	0.00	0.00	0.00
N86	1	PP	-0.001	1.088	-0.096	0.00	0.00	0.00
	2	CP1	0.000	0.325	0.021	0.00	0.00	0.00
		CP2	0.008	0.429	-0.040	0.00	0.00	0.00
	3	SC	-0.003	3.252	0.209	0.00	0.00	0.00
	4	VX+	0.002	-0.870	0.090	0.00	0.00	0.00
		VX-	-0.001	0.435	-0.045	0.00	0.00	0.00
N96	1	PP	0.000	-1.088	0.559	0.00	0.00	0.00
	2	CP1	0.000	-0.325	0.180	0.00	0.00	0.00
		CP2	-0.016	-0.401	0.209	0.00	0.00	0.00
	3	SC	-0.001	-3.255	1.795	0.00	0.00	0.00
	4	VX+	0.000	0.681	-0.310	0.00	0.00	0.00
		VX-	0.000	-0.340	0.155	0.00	0.00	0.00
N97	1	PP	0.000	1.091	-0.096	0.00	0.00	0.00
	2	CP1	0.000	0.325	0.021	0.00	0.00	0.00
		CP2	0.001	0.084	-0.035	0.00	0.00	0.00
	3	SC	0.003	3.250	0.212	0.00	0.00	0.00
	4	VX+	0.002	-0.870	0.089	0.00	0.00	0.00
		VX-	-0.001	0.435	-0.045	0.00	0.00	0.00
N107	1	PP	0.000	-1.092	0.561	0.00	0.00	0.00
	2	CP1	0.000	-0.325	0.179	0.00	0.00	0.00
		CP2	0.000	-0.092	0.034	0.00	0.00	0.00
	3	SC	0.001	-3.252	1.795	0.00	0.00	0.00
	4	VX+	0.001	0.681	-0.310	0.00	0.00	0.00
		VX-	0.000	-0.340	0.155	0.00	0.00	0.00
N108	1	PP	0.000	1.099	-0.098	0.00	0.00	0.00
	2	CP1	0.000	0.324	0.021	0.00	0.00	0.00
		CP2	0.002	0.373	-0.023	0.00	0.00	0.00
	3	SC	0.000	3.241	0.215	0.00	0.00	0.00
	4	VX+	0.001	-0.792	0.087	0.00	0.00	0.00
		VX-	-0.001	0.396	-0.044	0.00	0.00	0.00
N111	1	PP	0.000	-1.101	0.565	0.00	0.00	0.00
	2	CP1	0.000	-0.324	0.178	0.00	0.00	0.00
		CP2	0.019	-0.342	0.185	0.00	0.00	0.00
	3	SC	-0.003	-3.239	1.783	0.00	0.00	0.00
	4	VX+	0.000	0.571	-0.245	0.00	0.00	0.00
		VX-	0.000	-0.286	0.122	0.00	0.00	0.00
N113	1	PP	0.010	1.096	-0.095	0.00	0.00	0.00
	2	CP1	0.006	0.341	0.019	0.00	0.00	0.00
		CP2	0.007	4.057	0.098	0.00	0.00	0.00
	3	SC	0.055	3.414	0.185	0.00	0.00	0.00
	4	VX+	-0.011	-0.878	0.088	0.00	0.00	0.00
		VX-	0.005	0.439	-0.044	0.00	0.00	0.00
N123	1	PP	0.001	-1.096	0.564	0.00	0.00	0.00
	2	CP1	0.002	-0.342	0.189	0.00	0.00	0.00
		CP2	0.003	-4.111	2.601	0.00	0.00	0.00
	3	SC	0.018	-3.416	1.890	0.00	0.00	0.00
	4	VX+	-0.002	0.689	-0.316	0.00	0.00	0.00
		VX-	0.001	-0.345	0.158	0.00	0.00	0.00
N124	1	PP	-0.026	1.061	-0.099	0.00	0.00	0.00
	2	CP1	-0.009	0.276	0.033	0.00	0.00	0.00
		CP2	0.000	0.291	-0.020	0.00	0.00	0.00
	3	SC	-0.087	2.759	0.333	0.00	0.00	0.00
	4	VX+	0.026	-0.806	0.090	0.00	0.00	0.00
		VX-	-0.013	0.403	-0.045	0.00	0.00	0.00
N134	1	PP	-0.004	-1.053	0.536	0.00	0.00	0.00
	2	CP1	-0.008	-0.275	0.144	0.00	0.00	0.00
		CP2	-0.034	-0.262	0.139	0.00	0.00	0.00
	3	SC	-0.081	-2.747	1.445	0.00	0.00	0.00
	4	VX+	0.008	0.610	-0.265	0.00	0.00	0.00
		VX-	-0.004	-0.305	0.132	0.00	0.00	0.00
N135	1	PP	0.034	1.209	-0.096	0.00	0.00	0.00
	2	CP1	0.012	0.346	0.024	0.00	0.00	0.00
		CP2	0.016	0.063	-0.015	0.00	0.00	0.00
	3	SC	0.119	3.461	0.244	0.00	0.00	0.00
	4	VX+	-0.032	-0.894	0.093	0.00	0.00	0.00
		VX-	0.016	0.447	-0.046	0.00	0.00	0.00

NOTAS

OBSERVAÇÕES GERAIS:
1 - DIMENSÕES EM MILÍMETROS, EXCETO ONDE INDICADO O CONTRÁRIO;
2 - A ELEVAÇÃO 0,00 É REFERENCIAL A ELEVAÇÃO EXISTENTE E DEVERÁ SER MANTIDA;
3 - A ELEVAÇÃO EM METROS;
4 - SOLDAS CONFORME NORMA "AWS", ELETRODO E70XX (QUANDO NÃO INDICADO);
5 - MATERIAIS QUANDO NÃO INDICADO:
- AÇO PARA USO GERAL, REFERENTE A CHAPAS E PERFIS SOLDADOS: ASTM A36;
- AÇO PARA TUBO CAIXÃO UE [ ]: ASTM A36 / SAE1020 - Fy 250 Mpa (AÇO CONFORMADO A FRIO);
6 - O CONCRETO DEVERÁ POSSUIR RESISTÊNCIA MÍNIMA DE fck > 250 Kgf/cm.

REVISÃO	DESCRIÇÃO	TIPO	ELABORADO	VERIFICADO	DATA
00	EMISSÃO INICIAL	EXE	LDL/ASS	CPM	09/2025

TIPOS DE EMISSÃO
ATP - ANTEPROJETO
BSC - BÁSICO
EXE - EXECUTIVO
APV - APROVADO
PCT - P/ CONSTRUÇÃO
ASB - "AS BUILT"
CNC - CANCELADO

ELABORAÇÃO:
Plator Engenharia de Meio Ambiente
PLATOR - PROJETOS E SERVICOS AMBIENTAIS
ALAMEDA OSCAR NIEMAYER, N°500, SALAS 511 E 802 A 806 – VALE DO SERENO
NOVA LIMA–MG – CEP.: 34.006–056
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REALIZAÇÃO:
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ESCOLA CEFET DE ITATIAIUÇU
SUPORTE
RUA OTÁVIO ANTUNES MOREIRA, N° 55 – ITATIAIUÇU, MINAS GERAIS

PROJETO DE EST. METÁLICA

AUTORIA DO PROJETO:
JULIANA GONCALVES OLIVEIRA:04348 069603
JULIANA GONÇALVES OLIVEIRA
CREA MG – 239787/D
BRUNO ANDRELLI DA SILVA MACEDO:07533064682
BRUNO ANDRELLI DA S. MACEDO
ENGENHEIRO MECÂNICO
CREA – MG 216878D

CONTRATANTE DO PROJETO:
RESPONSÁVEL DA CONTRATANTE

DATA: SETEMBRO / 2025
ESCALA: INDICADA
CÓDIGO: PRJ-EMT

TÍTULO DOS DESENHOS: QUADRO DE CARGAS;
PRANCHA: 16/19

DIREITOS AUTORAIS RESERVADOS; PROIBIDO REPRODUÇÃO, DIVULGAÇÃO OU ALTERAÇÃO SEM ORDEM EXPRESSA DO AUTOR.

TÍTULO DOS DESENHOS: PRJ-181640-EMT-0101-REV00

FORMATO - A1 841x594mm