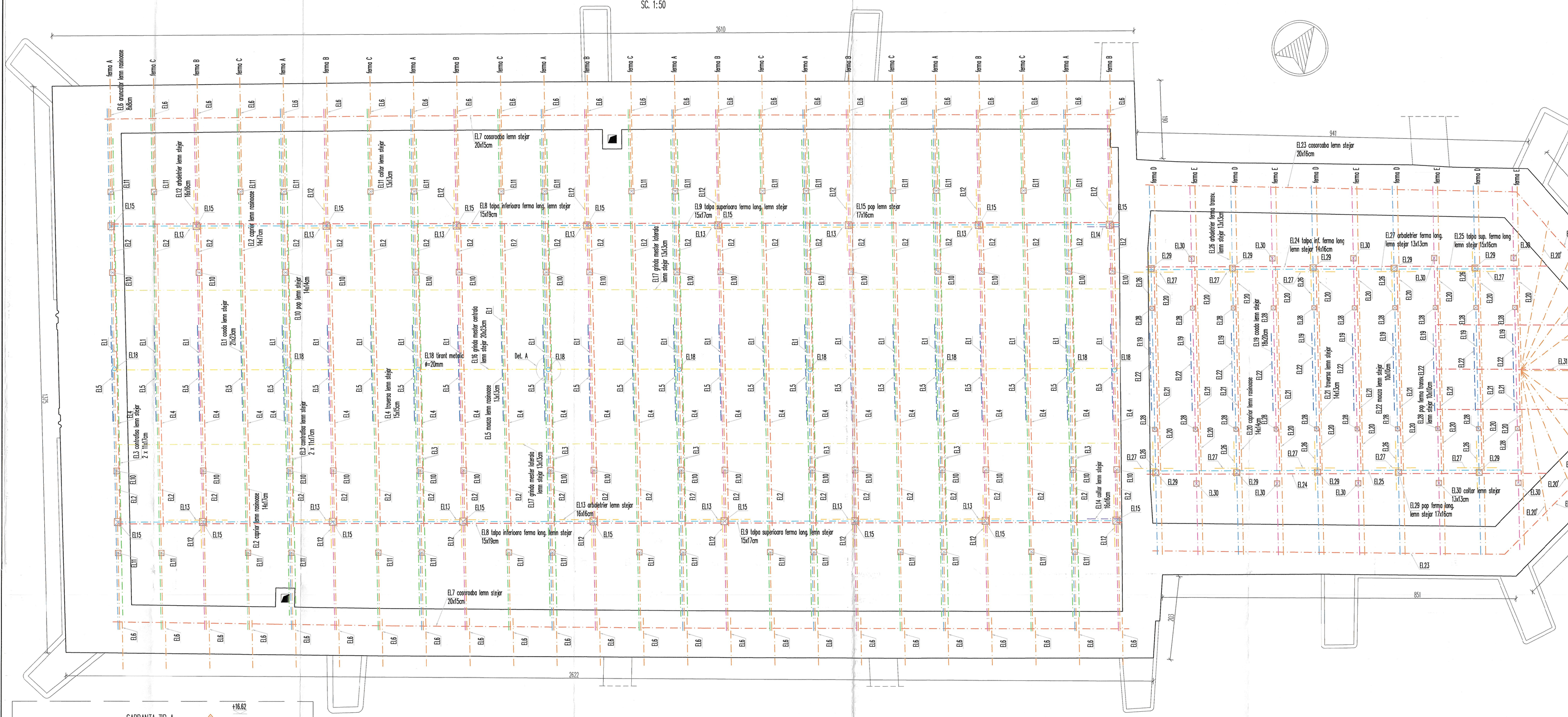
PLAN SARPANTA
SC. 1:50



ELEMENTE STRUCTURALE SARPANTA NAVA

Element	Rol structural	Lemn	b (cm)	h (cm)	L (m)	nr. buc.	volum./buc. (mc)	volum./total (mc)
E1.1	coarda	stejar	21	23	13.00	24	0.628	15.070
E1.2	caprior	brad	14	17	10.25	48	0.244	11.710
E1.3	contrafisa	stejar	11	17	6.60	32	0.123	3.949
E1.4	traversa	stejar	15	15	7.80	24	0.171	4.104
E1.5	mooza	stejar	13	13	2.55	24	0.043	1.034
E1.6	aruncator	brad	8	8	2.80	48	0.016	0.860
E1.7	cosoroaba	stejar	20	15	24.45	2	0.734	1.467
E1.8	talpa inf. ferma long.	stejar	15	19	24.25	2	0.691	1.382
E1.9	talpa sup. ferma long.	stejar	15	17	24.25	2	0.618	1.237
E1.10	pop	stejar	14	14	4.80	32	0.090	2.885
E1.11	coltar	stejar	13	13	1.80	32	0.030	0.973
E1.12	arbaletrier ferma transv.	stejar	16	16	2.70	16	0.069	1.106
E1.13	arbaletrier ferma long.	stejar	16	16	3.15	14	0.081	1.129
E1.14	coltar	stejar	16	16	1.50	2	0.038	0.077
E1.15	pop	stejar	17	16	2.60	18	0.071	1.273
E1.16	grinda mester centrala	stejar	20	23	24.25	1	1.115	1.115
E1.17	grinda mester laterala	stejar	13	13	24.25	2	0.410	0.820

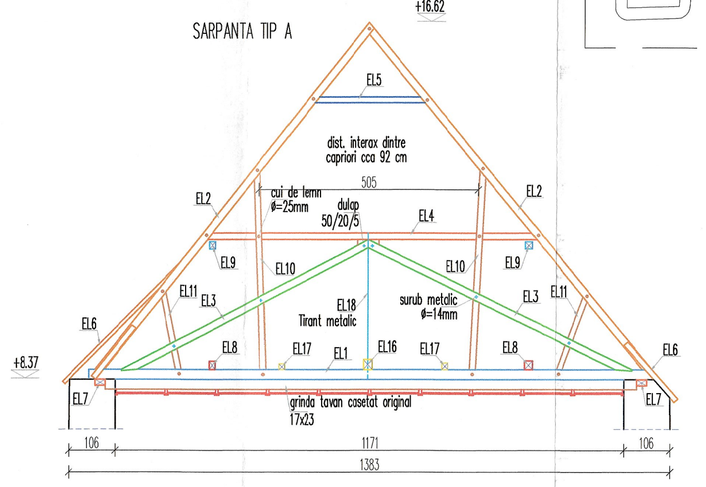
ELEMENTE STRUCTURALE SARPANTA COR

Element	Rol structural	Lemn	b (cm)	h (cm)	L (m)	nr. buc.	volum./buc. (mc)	volum./total (mc)
E1.19	coarda	stejar	18	20	9.25	10	0.333	3.33
E1.20	caprior	brad	14	14	7.35	20	0.144	2.881
E1.21	traversa	stejar	14	13	5.05	10	0.092	0.919
E1.22	mooza	stejar	10	10	1.90	10	0.019	0.19
E1.23	cosoroaba	stejar	20	16	28.00	1	0.896	0.896
E1.24	talpa inf. ferma long.	stejar	14	16	9.15	2	0.205	0.41
E1.25	talpa sup. ferma long.	stejar	15	16	9.15	2	0.022	0.439
E1.26	arbaletrier ferma transv.	stejar	13	13	2.70	10	0.046	0.456
E1.27	arbaletrier ferma long.	stejar	13	13	2.25	8	0.038	0.304
E1.28	pop ferma transversala	stejar	10	10	3.80	20	0.038	0.076
E1.29	pop ferma longitudinala	stejar	17	16	2.10	10	0.057	0.571
E1.30	coltar	stejar	13	13	1.65	10	0.028	0.279

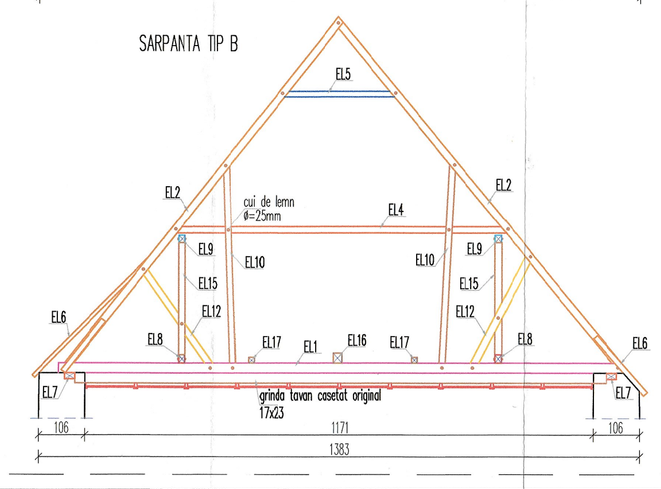
Legenda sarpanta NAVA:
- coarda ferma A (E1.1)
- coarda ferma B (E1.1)
- coarda ferma C (E1.1)
- capriori (E1.2)
- contrafisa (E1.3)
- traversa (E1.4)
- mooza (E1.5)
- aruncator (E1.6)
- cosoroaba (E1.7)
- talpa inf. ferma long. (E1.8)
- talpa sup. ferma long. (E1.9)
- arbaletrier (E1.12, E1.13)
- grinda mester centrala (E1.16)
- grinda mester laterala (E1.17)
- elemente vazute in sectiune (E1.10, E1.11, E1.14, E1.15)
- tirant metalic Φ=20mm (E1.18)

Legenda sarpanta COR:
- coarda ferma E (E1.19)
- coarda ferma F (E1.20)
- traversa (E1.21)
- mooza (E1.22)
- cosoroaba (E1.23)
- talpa inf. ferma long. (E1.24)
- talpa sup. ferma long. (E1.25)
- arbaletrier (E1.26, E1.27)
- elemente vazute in sectiune (E1.28, E1.29, E1.30)

SARPANTA TIP A

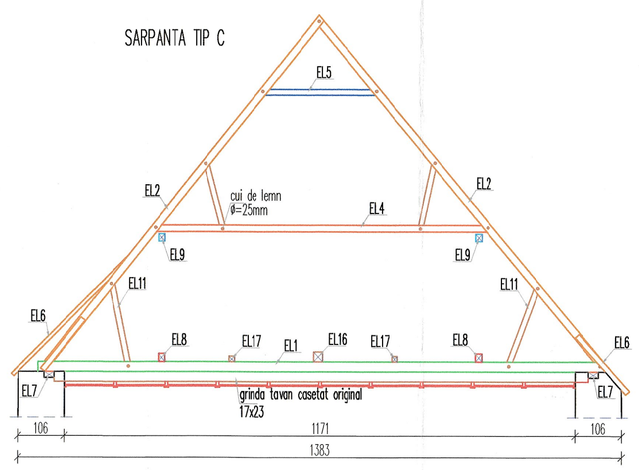


SARPANTA TIP B



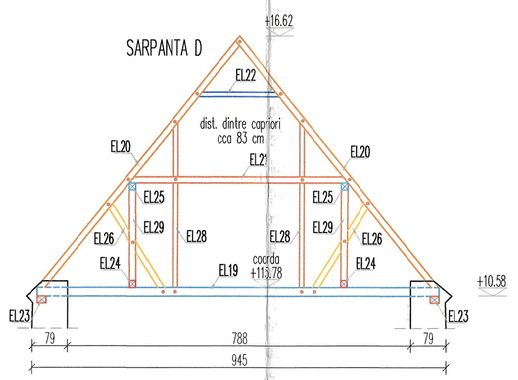
SECTIUNI TRANSVERSALE PRIN SARPANTA NAVA
SC. 1:100

SARPANTA TIP C

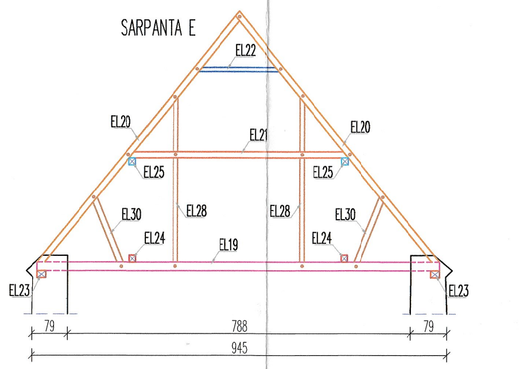


SECTIUNI TRANSVERSALA PRIN SARPANTA COR
SC. 1:100

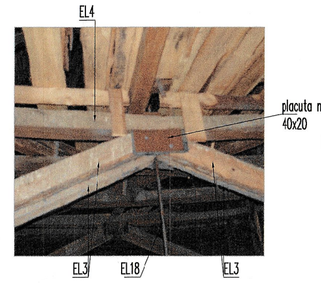
SARPANTA D



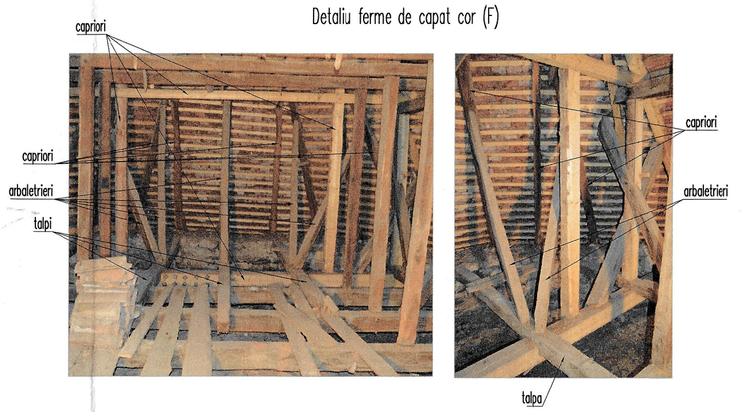
SARPANTA E



Detaliu "A"



Detaliu ferme de capat cor (F)



SARPANTA BISERICII

CONSIDERATII GENERALE.

Sarpanta, atat peste nava cat si peste cor, este una traditionala, cu caracter preponderent gotic, cu toate ca fermele transversale foc trimitere si la cele cu caracter romanic.
Initial nava a avut doua tipuri de ferme transversale, principale si secundare, dar ca urmare a aparitiei unor degradari sau in momentul repararii tavanului casetat, s-a realizat o consolidare prin introducerea in 1/2 din fermele secundare a unor contravantuiri care au rolul de a limita deformarea traversei, astfel incat in prezent nava prezinta trei tipuri de ferme transversale.
Se poate presupune ca in acelasi timp s-au pozat si tirantii care suspenda grinda mester principala de traversa fermei consolidate. Se dezvolta subiectul in plansa "Plan dispunere grinzi tavan casetat".
In sens longitudinal atat sarpanta navei cat si cea acoruiui, au cate doua sisteme planare de rigidizare cu caracter gotic cu un singur registru, simetrice, a caror arbaletrieri au o singura un singur sens di incinarii (in mod firesc 1/2 se dispun ascendent si 1/2 descendent).
Imbinarile sunt traditionale, mai putin cele care conecteaza elementele nou introduse, acestea fiind imbinate de cele originale cu piese metalice. Tipologia si calitatea pieselor metalice este diferita, unele fiind realizate din fier forjat si altele din fier laminat.

INTERVENTII LA NIVELUL SARPANTEI NAVEI SI CORULUI BISERICII

1. Curatare si inspectarea imbinarilor coarda-capriori
2. Verificarea/repararea imbinarilor coarda – arbaletriei
3. Completarea arbaletrierilor lipsa (in zona perete Vestic, in imediata apropiere a accesului in sarpanta); imbinarile vor fi cele dulgheresti traditionale
4. Refacerea consolidarilor realizate in anii 2004; se va respecta conceptul, dar se vor inlocui elementele de lemn necorespunzator (s-a utilizat lemn necuratat in totalitate de straturile cu alburn)
4. Se vor curata si inspecta piesele metalice de prindere a tavanului casetat; cele deteriorate se vor inlocui cu unele similare)
5. Inlocuirea elementelor de lemn degradate si completarea elementelor lipsa. Se indeparteaza materialul lemnos nou
6. Indepartare podine de lemn din sarpanta afectate de carii si montare podine noi de lemn; si se creaza o podina de acces permanent atat la nivelul corzolor cat si la nivelul traverselor din primul registru

NOTA
Releveul degradarilor se citeste in plansele pr. de arhitectura

CATEGORIA DE IMPORTANTA: B – conf. H.G. 766/97
CLASA DE IMPORTANTA: II – conf. P100–1/2013
GRAD DE REZISTENTA LA FOC: IV – conf. P118/2013
ag=0.20g; Tc=0.7s – conf. P100–1/2013
qb=0.4kPa – conf. CR–1–1–4/2012
Sdk=1.5kPa – conf. CR–1–1–3/2012

Verificator/ Expert	NUME:	SEMNATURA:	CERINTA:	REFERAT / EXPERTIZA NR./DATA:
EXPERT TEHNIC: ing. BODOR CSABA PAL	PROIECTARE INSTALATII ELECTRICE: ing. RADU ROMAN		RELEVEU: ING. ELKE SI STEPHAN EBELT 2002	
PROIECTARE GENERALA: arh. EMIL CRISAN	EXP. BIOLOGICA: ILEANA CHIRTEA, GEOLOG: ADRIAN TANASE		/ ACTUALIZAT ARH. A.I. NICHIFOR	

PROIECTANT DE SPECIALITATE / REZISTENTA
P R O G I R
Cluj-Napoca, str. Alun nr. 36/76, tel./fax 0264/450974
E-mail: progir@rdslink.ro, M. O.N.C. : J12 / 1296 / 05.08.2003

Beneficiar: PAROHIA EVANGHELICA C.A. RUPEA — Numar proiect: 11.09.17

Proiect: LUCRARI DE REPARATII, CONSERVARE SI INTRODUCERE IN CIRCUITI TURISTIC LA ANSAMBLUL BISERICII EVANGHELICE FORTIFICATE RUPEA (LMI: BV-II-a-A-11774)

SPECIFICATIE:	NUME:	SEMNATURA:	Scara: 1:50 / 1:100	Faza: DTAC/PAC
Sef. proiect:	arh. Emil Crisan			
Proiectat:	ing. Georgiana Tirt		Data: sept. 2017	
Desenat:	ing. Ancuta Cociota			

Amplasament: Rupea, jud. Brasov, str. Republicii nr 147

Titlul planse: SARPANTA — PLAN. SECTIUNI

Numarul planse: R 3 rev. 0

dimensiuni plansa: 1000x594

C05541

PAROHIA RUPEA

ORDINUL ARHITECTILOR DIN ROMANIA — 535 — Emil Crisan — Arhitect — Cluj

PROGIR SRL — SOCIETATEA COMERCIALA