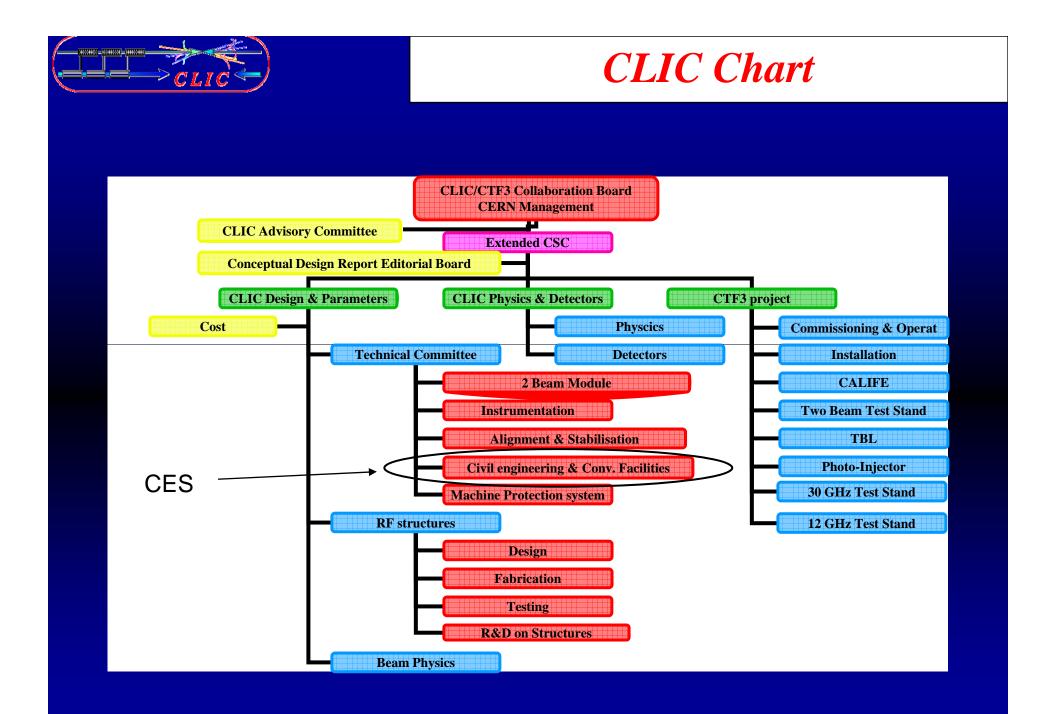
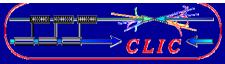


CLIC Civil Engineering and Services (CES) WG

Agenda :

	#1 - CLIC-CES Wkg	Wednesday 14 May 2004 from 14:30 to 16:00Europe/Zurid at CERN (54-2-033 chaired by: John Andrew Osborne (CERN)
	Participants: Hans Braun; Claude Hauviller; Joaquin Inigo-Golfin; Karsten Kahle; Keith Ker Osborne; Daniel Parchet; Thomas pettersson; Ingo Ruehl; Ralf Trant	shaw; Antoine Kosmicki; Hélène MAINAUD DURAND; Christophe Martel; John Andrew
		Wednesday 14 May 2008
	lay 14 May 2008	<u>top</u> ◆
	ay 14 May 2008 late of CES Working Group and Structure (20)	
14:30 Mand	1 1	<u>top</u> ◆
14:30 Mand 14:50 Proje	late of CES Working Group and Structure (20)	<u>top</u> ↑ John Andrew Osborne (<i>CERN</i>), Claude Hauviller (<i>CERN</i>)





CLIC Civil Engineering and Services (CES) WG

Mandate :

General Objective

-Develop the existing layouts for the project from a civil engineering and technical services point of view, and work with the various actors towards a realistic design for the CDR in 2010.

Specific responsibilities:

-Work will concentrate on the tunnel <u>cross section</u> required to accommodate the machine and it's services (e.g. ventilation, electricity, survey, controls, safety and handling equipment)
-The overall layout for the civil engineering (surface buildings, injectors, <u>turnarounds</u>, return loops and accelerator tunnels) will be studied for the various energy ranges i.e. 500Gev, 1Tev and 3Tev.
-Develop a layout for the <u>interaction region</u>.
-Work together with ILC on areas of synergy. Money available from FP7 for this !
-ILC Dubna meeting 4-6 June
This group will report back to the CLIC Technical Committee.

Regular meetings are planned for once a month on 2nd Wednesday of the month 2:30pm. First meeting 14 May Ad-hoc meetings on dedicated subjects eg EL 4 April, CV 29 April....



CLIC Civil Engineering and Services (CES) WG

CES Working Group Representatives :

Civil Engineering and Chairman	J.Osbor
CLIC Link Person	H.Braun
Cooling and Ventilation CV	J.Inigo-(
Electricity EL	K.Kahle
Survey SU	H.Maina
Access Controls, Safety ASE	T.Petters
Horizontal Handling HE	K.Kersh
Vertical Handling HE	I.Ruehl
CE Layouts and cross-sections	A.Kosm
SC Link Person	R.Trant

J.Osborne H.Braun J.Inigo-Golfin / C.Martel K.Kahle H.Mainaud Durand T.Pettersson K.Kershaw I.Ruehl A.Kosmicki / D.Parchet R.Trant

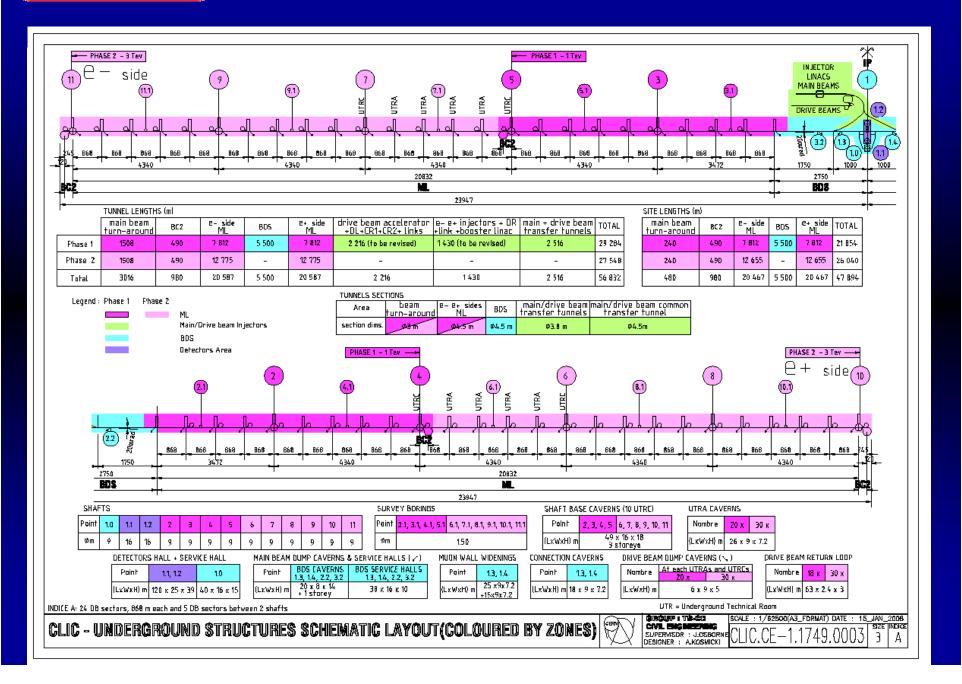


CLIC Civil Engineering and Services (CES) :

PBS Breakdown Structure :

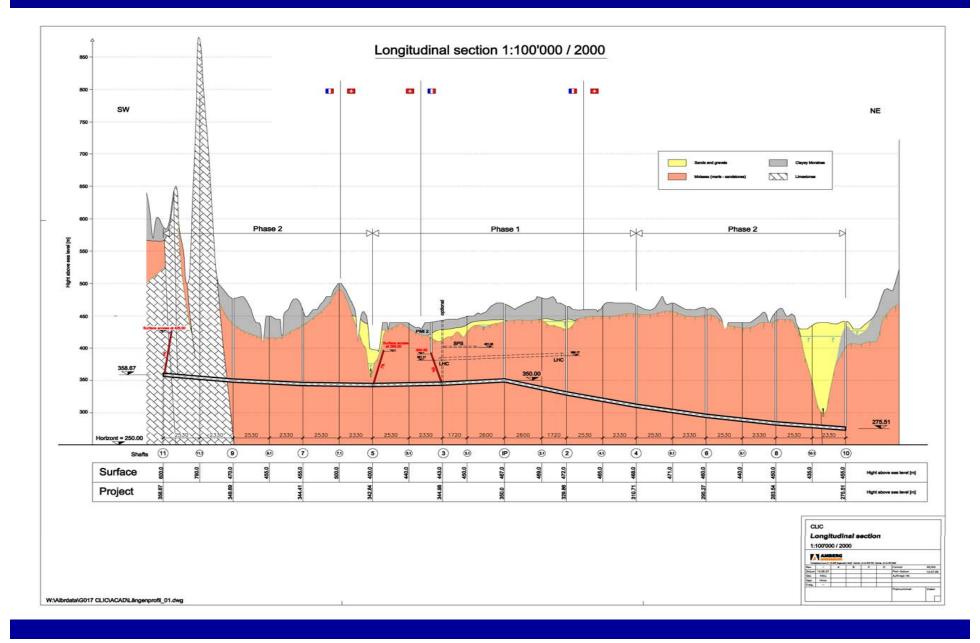
CE and Services			
	Civil Engineering		
		Underground Facilities	
			Shafts
			Tunnels
			Experimental Area Caverns
			Caverns Miscellaneous works
		Surface Structures	Wiscenarieous works
		Surface Structures	Assembly Buildings
			Office Buildings
			Service Buildings
This document will be used			Cryo Buildings
			Workshops
for :			Site Access Buildings
			Miscellaneous Buildings
		Site Development	
 Chapters in CDR 			Off-Site work
			Network of Monuments Site Preparation
•Conting			Utility Distribution
•Costing			Road, Footpaths & Parking Areas
			Landscaping
 Similar to ILC Breakdown 			Environmental
			Miscellaneous Site Works
	Electricity		
		AC network	
		DC network	
	Access and Communication		
	Access and Communication	Access Control Systems	
		Data network	
	Fluids		
		Water cooling	
		Ventilation	
		Cryogenics	
		Gas	
	Handling		
		Horizontal	
		Vertical	
	Safety		
	Jalety	Radiation Safety	
		Fire Safety	
		The surcey	
	Survey		
		Geodesy and Networks	
		Machine Installation and	
		Aligmnment	

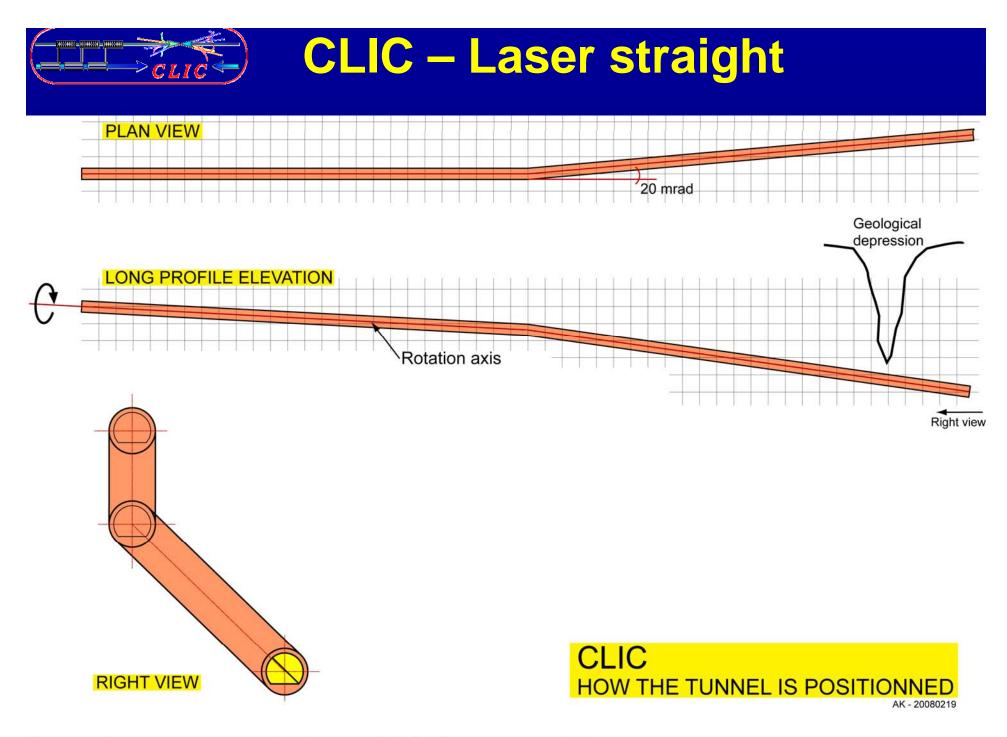
CLIC – General Layout





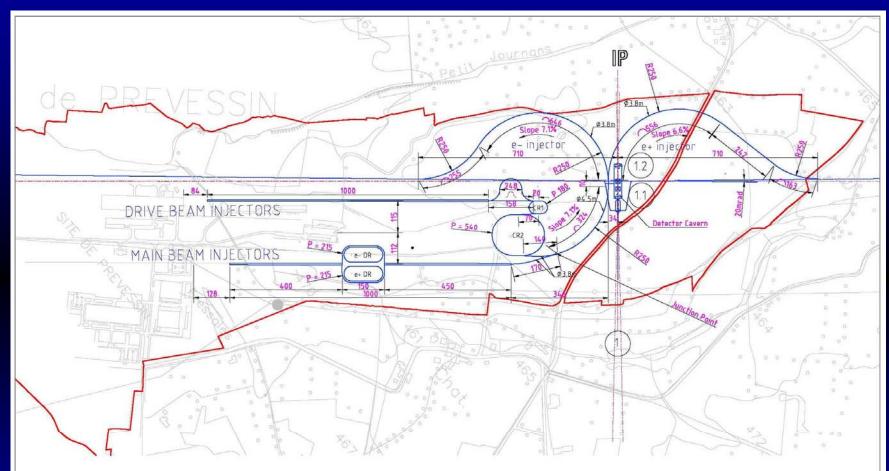
CLIC – Long Profile





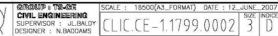


CLIC – Injectors

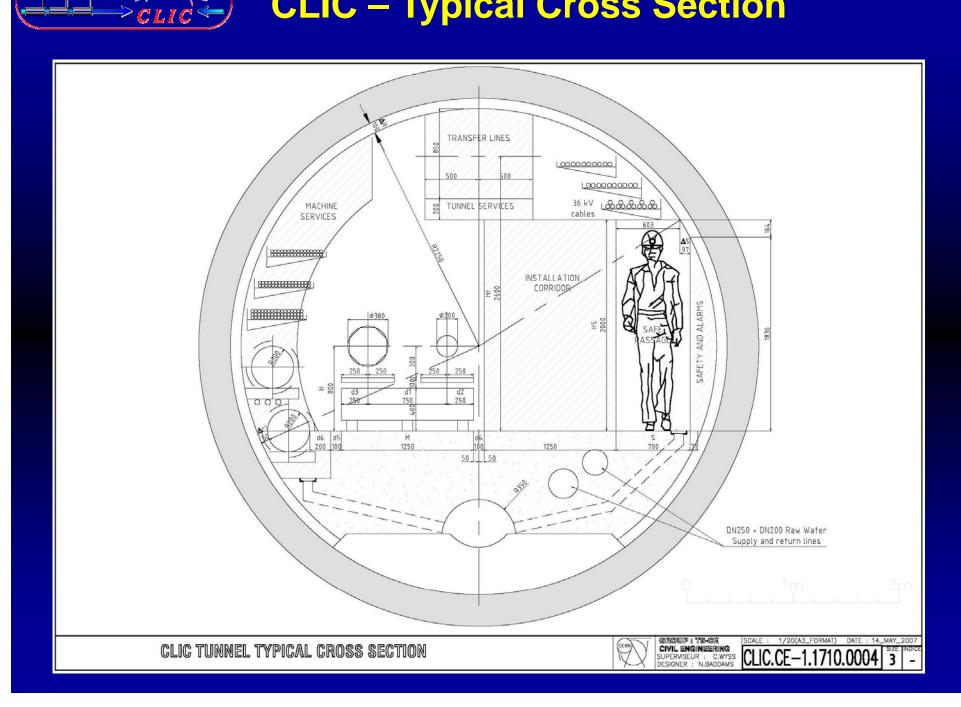


INJECTORS TUNNELS	DRIVE BEAM INJECTORS COMPLEX					MAIN BEAM INJECTORS COMPLEX					COMMON & FINAL TRANSFER TUNNELS (after Junction Point)			
	LINAC	DELAY LOOP	CR 1	CR 2	TT to Junction Paint	LINAC 1	e- DR	e+ DR	DR Link	LINAC 2 + BC 1	TT to Junction Point	COMMON	e- TT	e+ TT
Length (l) m	1000	406	180	540	140	400	215	215	150	450	170	334	901	971
Section (l x h) m	6 x 3	4 x 3	4 x3	4 x 3	Ø 3.8	3 x 3	6 x 3	6 x 3	14 x 3	3 x 3	Ø 3.8	Ø 4.5	Ø 3.8	Ø 3.8

CLIC- MAIN / DRIVE BEAM INJECTORS AND EXPERIMENTAL AREA LAYOUT

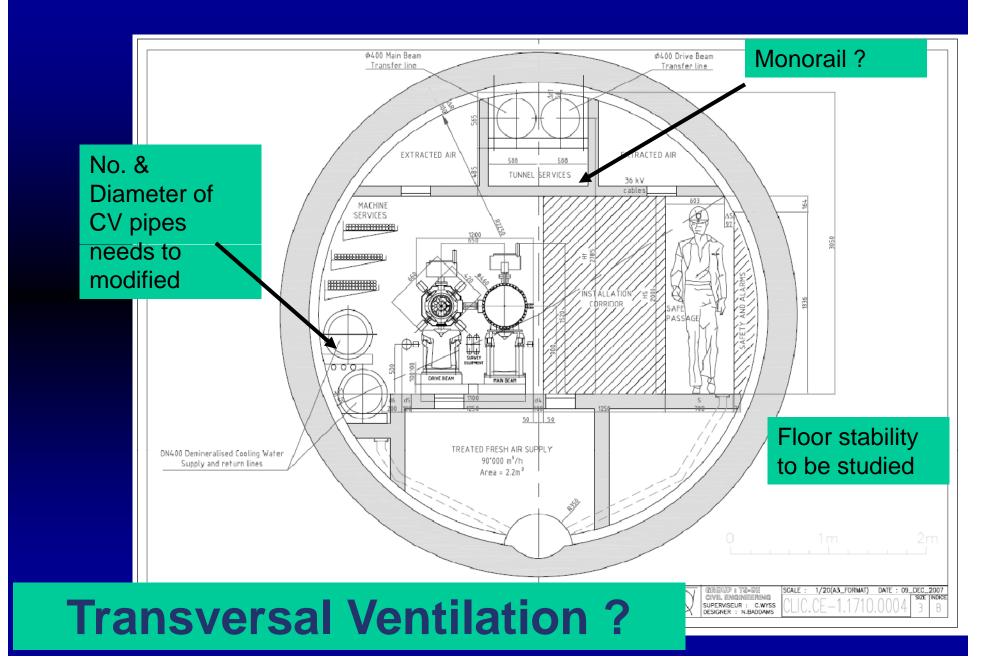


CLIC – Typical Cross Section



CLIC – CV issues

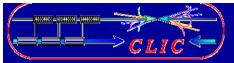
CLIC





Main goals for 2008

- Develop realistic cross section, including :
 - Updated CV requirements
 - Monorail ?
- Study in detail the turnaround integration, CATIA 3d
- EL to produce 'conceptual design' for CLIC
- Study various energy ranges 500GeV, 1TeV & 3 TeV
- NEXT CLIC meeting October



CLIC Civil Engineering and Services (CES) :

2008 Meeting Schedule :

	Clogin
Integrated Digital Conference Home > Projects > CLIC > CLIC Civil Engineering and Services Wkg	LOCAL: Europe/Zurich
CLIC Civil Engineering and Services Wkg (Managers: Osborne, J.) Events in this category:	T o o l s Serverse Categories Events Overview Calendar
♦ 2008	Site Map
December 2008 10	Room Booking Statistics
November 2008	Search Indico News
12 🧱 #7 - CLIC-CES Wkg	→ Help
October 2008	Add Event
08 🛄 #6 - CLIC-CES Wkg	<u>జిదిష</u> రి ^{ద్ద} Lecture
September 2008	and Monting
10 📰 #5 - CLIC-CES Wkg	<u>සිසිද</u> Meeting දීදුළු Conference
August 2008	
13 🛄 #4 - CLIC-CES Wkg	<u></u>
09 🛄 #3- CLIC-CES Wkg	ጸ <u>ቶ</u> ዳ
June 2008	
11 🔤 #2 - CLIC-CES Wkg	<u>888</u>
May 2008	
14 🧱 #1 - CLIC-CES Wkg	<u>888</u>

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If any common areas, Webex with ILC?