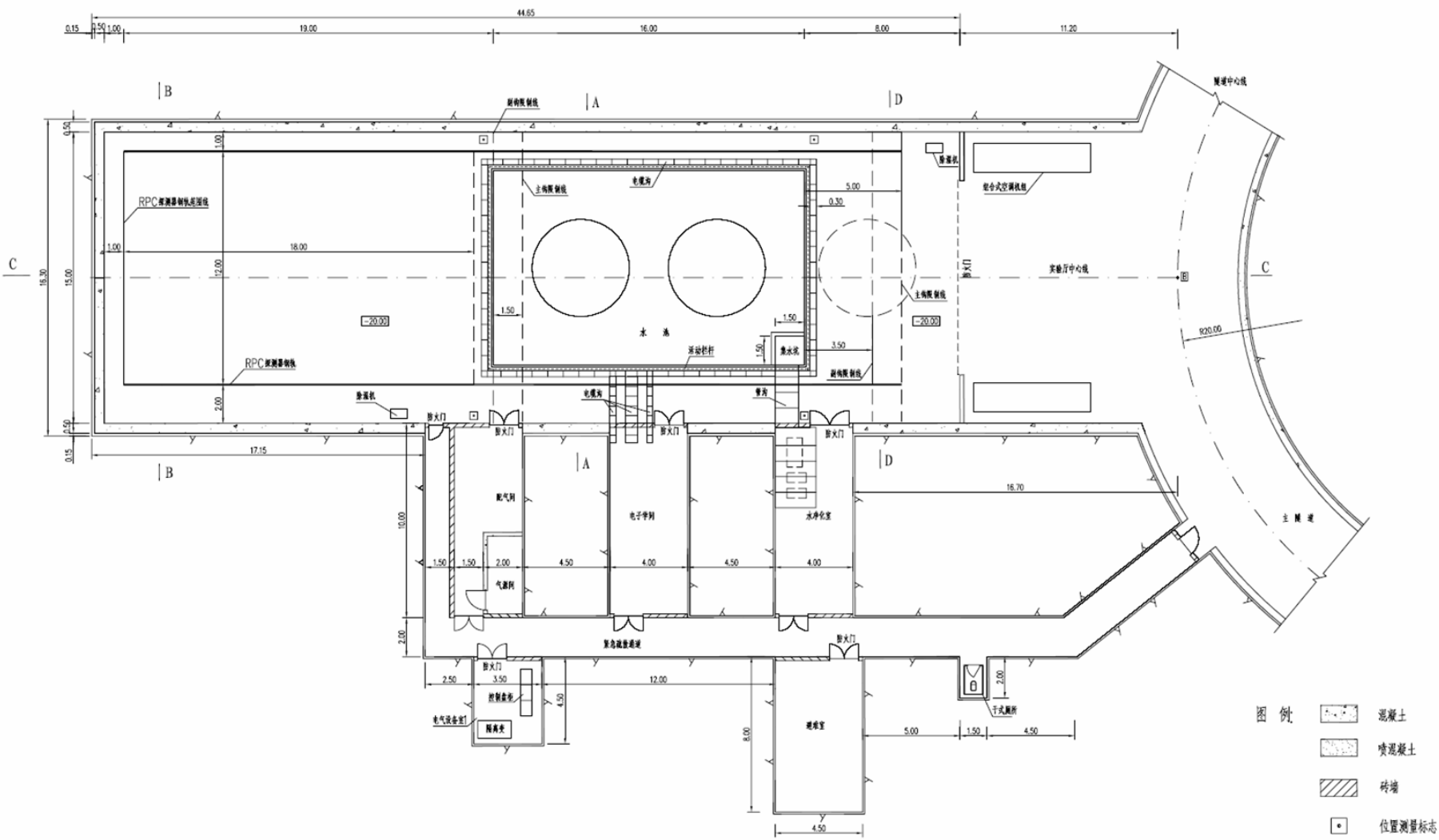


# Civil Structure of Water Pool

Changgen Yang



1#实验厅平面图

说明:

1. 图中尺寸和高程以米计。
2. B点坐标详见图ZY-02。

比例:

0 1 2 3 4m  
1:100

此图仅用于招标

黄河勘测规划设计有限公司

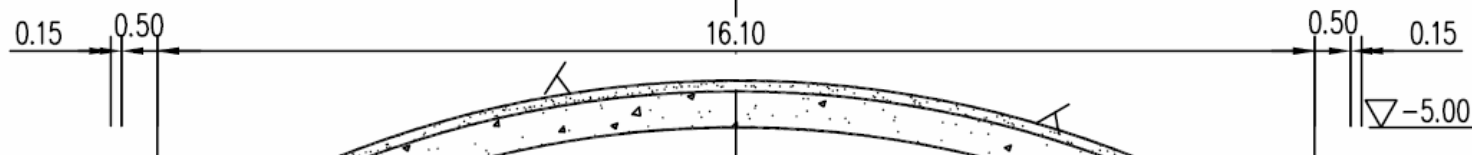
审定: 大石湾反应堆中微子  
审核: 实验站建设配套工程  
设计: 翠利军  
制图: 翠利军

1#实验厅平面图

专业	会	签	日	设计	审核	制图	比例	1:100	日期	2007.06
设计	翠利军			翠利军			总图号	DYMSY-05	图号	27-05
设计	翠利军			翠利军			审核			
审核							设计			
审定							审核			
审定							审定			



EH middle line 实验厅中心线



7.35

7.35

Height of rail

▽-10.00 轨顶高程

▽-10.15

R14.35

Ejected  
Concrete

Concrete

Removable  
handrail

活动栏杆

RPC 探测器

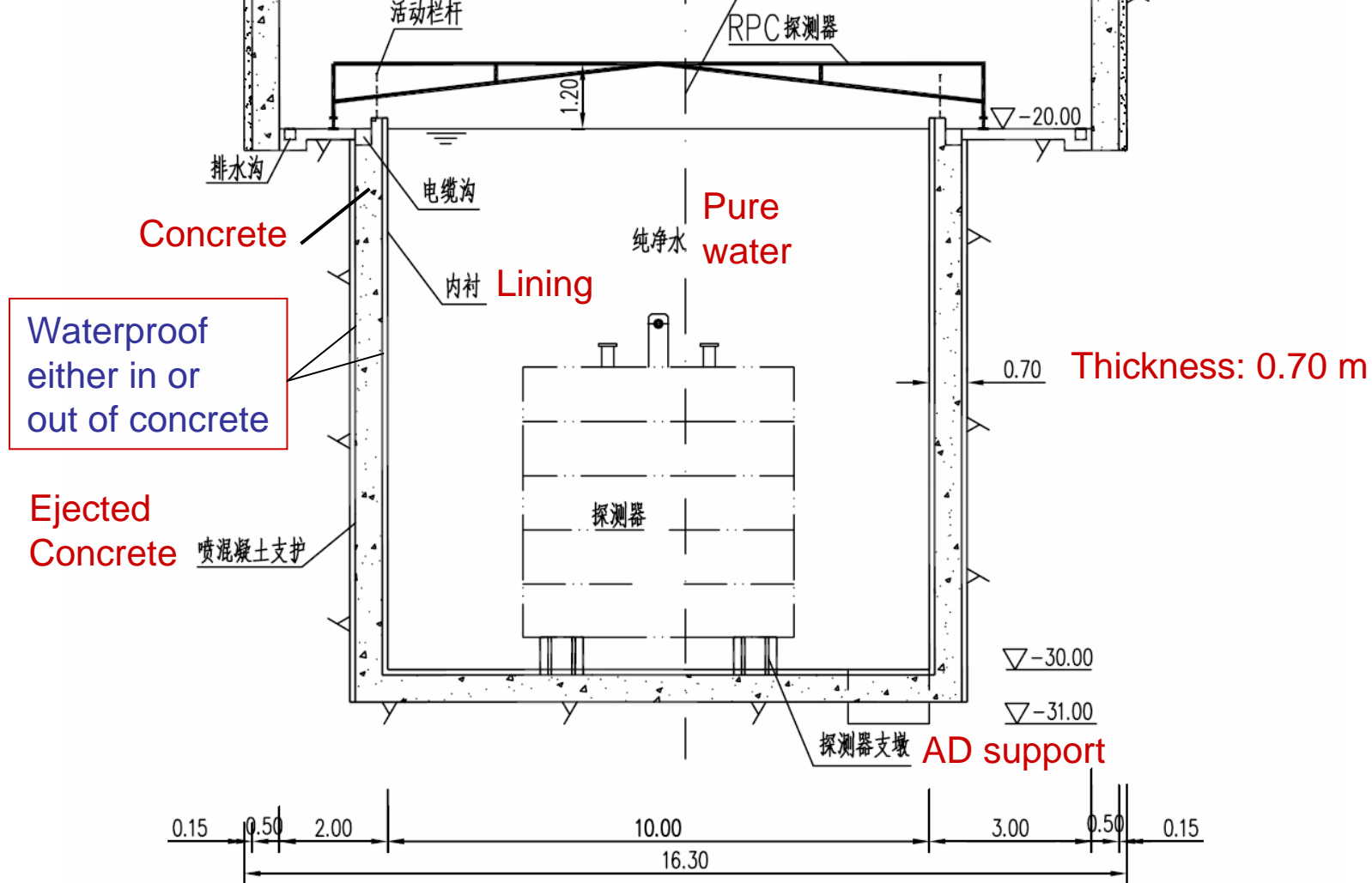
1.20

▽-20.00

Drainage Ditch 排水沟

电缆沟

Cable Ditch



1 # 实验厅A-A剖面

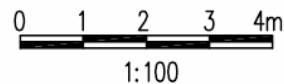
图 例:

	混凝土	Concrete
	喷混凝土	Ejected Concrete

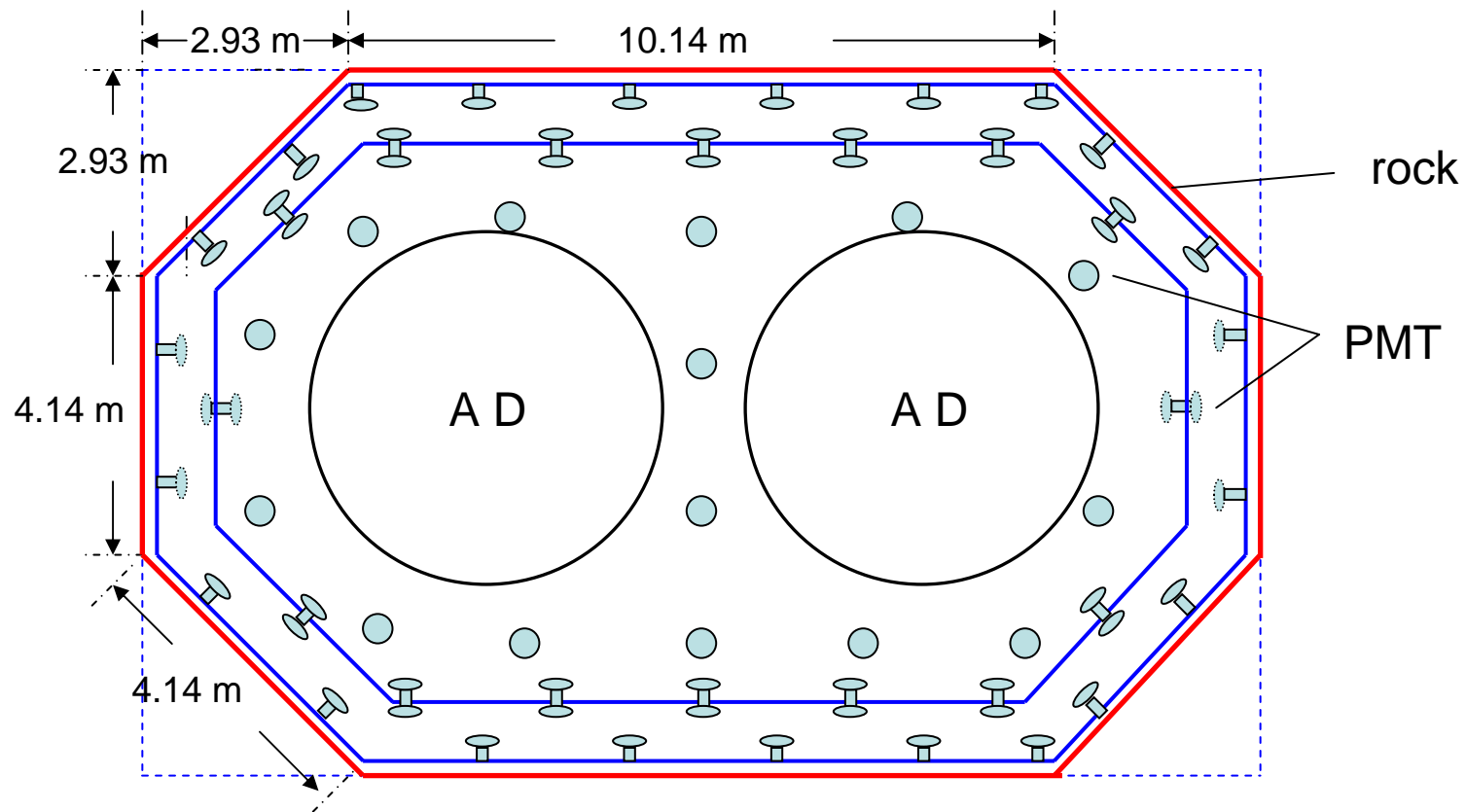
说 明:

1. 图中尺寸和高程以米计.

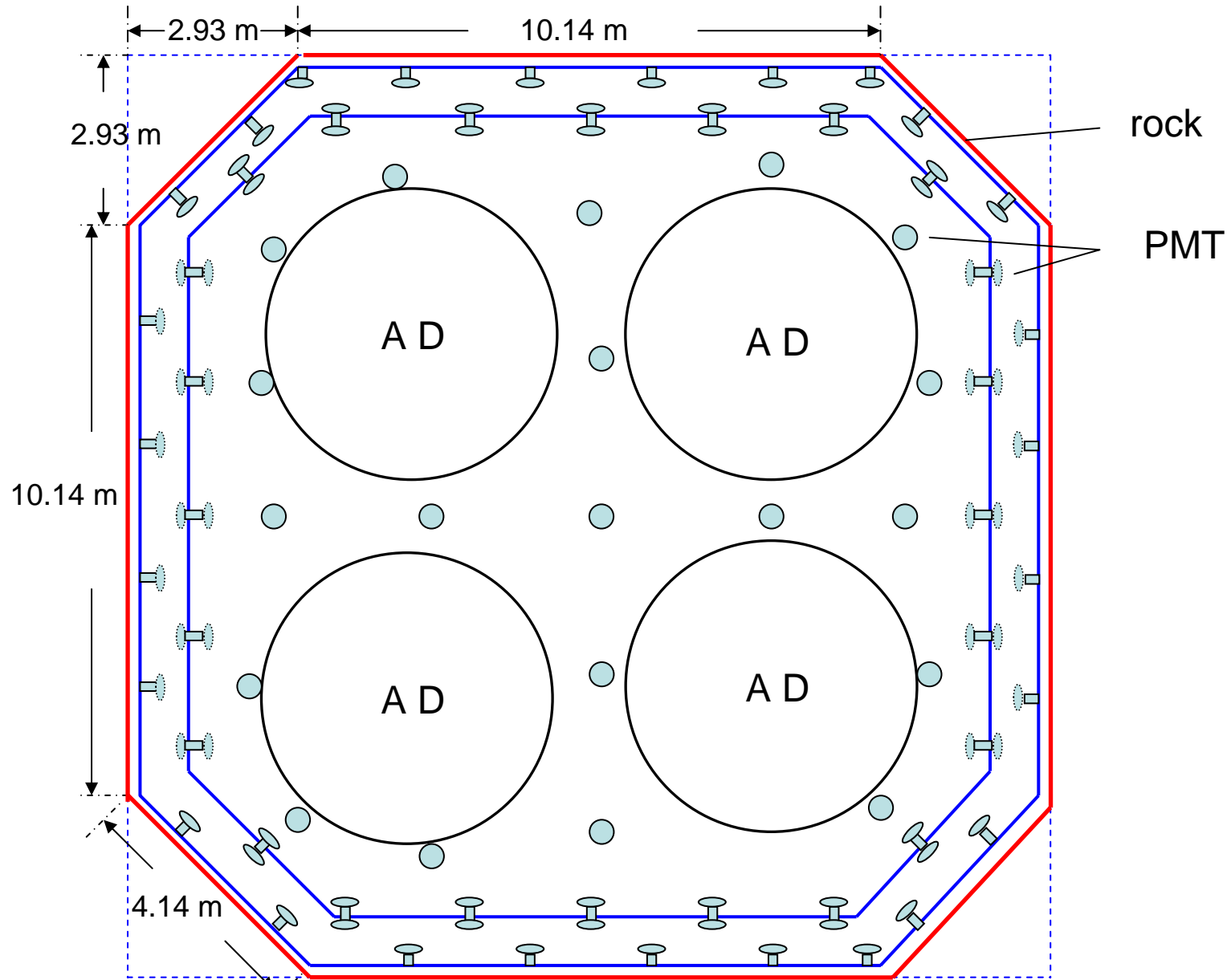
比 例: Scale



# 1# & 2# water pool and veto structure



# 3# water pool and veto structure



# Main advantages:

- The total volume **for three water pools decreases about 515 m<sup>3</sup>**. This means that the same volume rock will not be dug and we will save 515 m<sup>3</sup> pure water for each experiment period.
- It is more easy to dig this water pool than the base line, especially for the pool corners.
- The total surface area for three water pools reduces about 308 m<sup>2</sup> (side area 205 m<sup>2</sup> , up and down area 103 m<sup>2</sup>) . So we can save the liner about 256 m<sup>2</sup>.
- With the current PMT density of about one PMT per 2.4 m<sup>2</sup>, **about 100 PMTs could be saved to increase the present PMT density**.
- It is obvious that **water flows more smoothly** in this new structure. The water flow in a semi-round pool rather than a rectangular pool.