



MEBT MEETING AGENDA

January 4, 2000

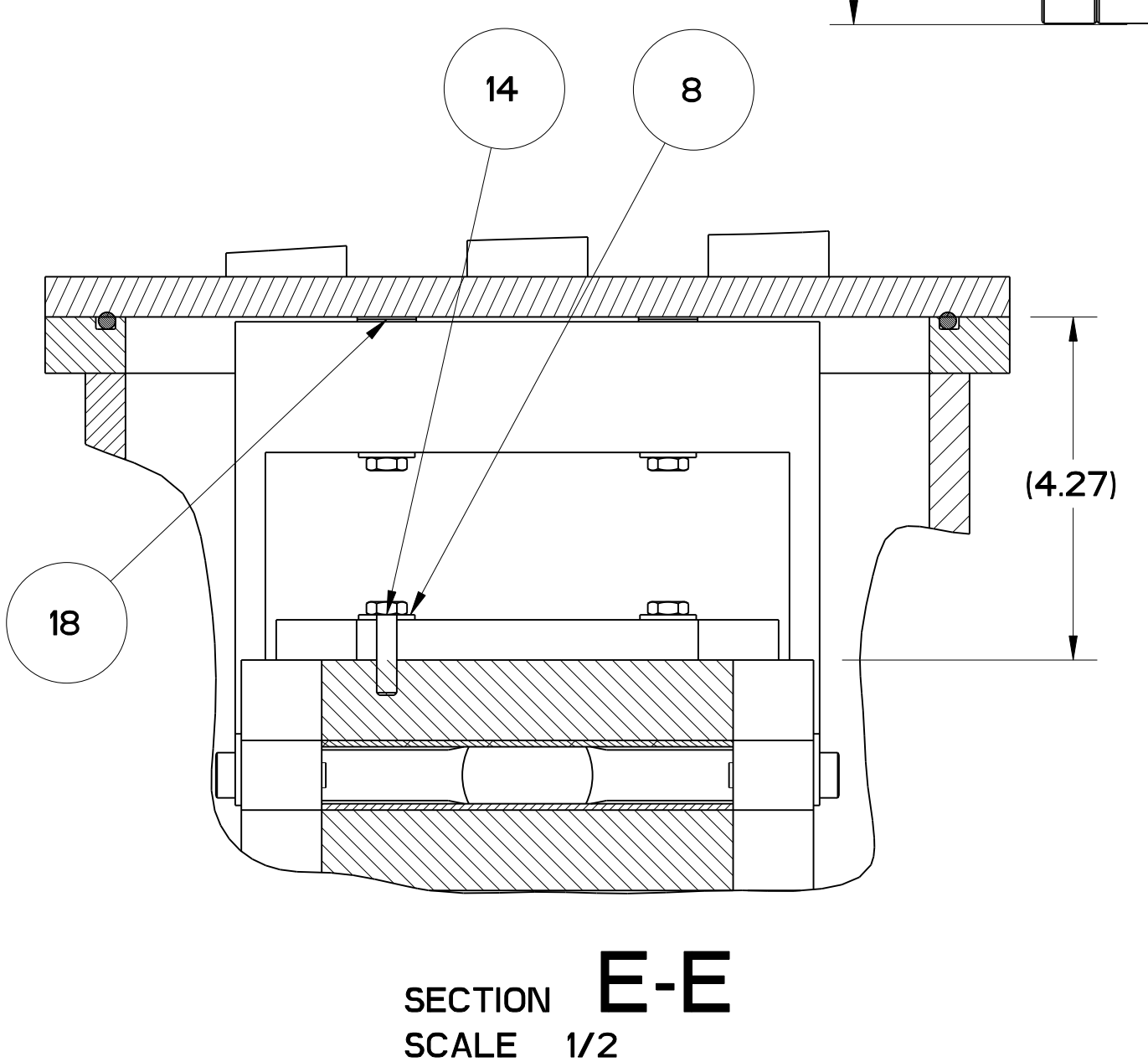
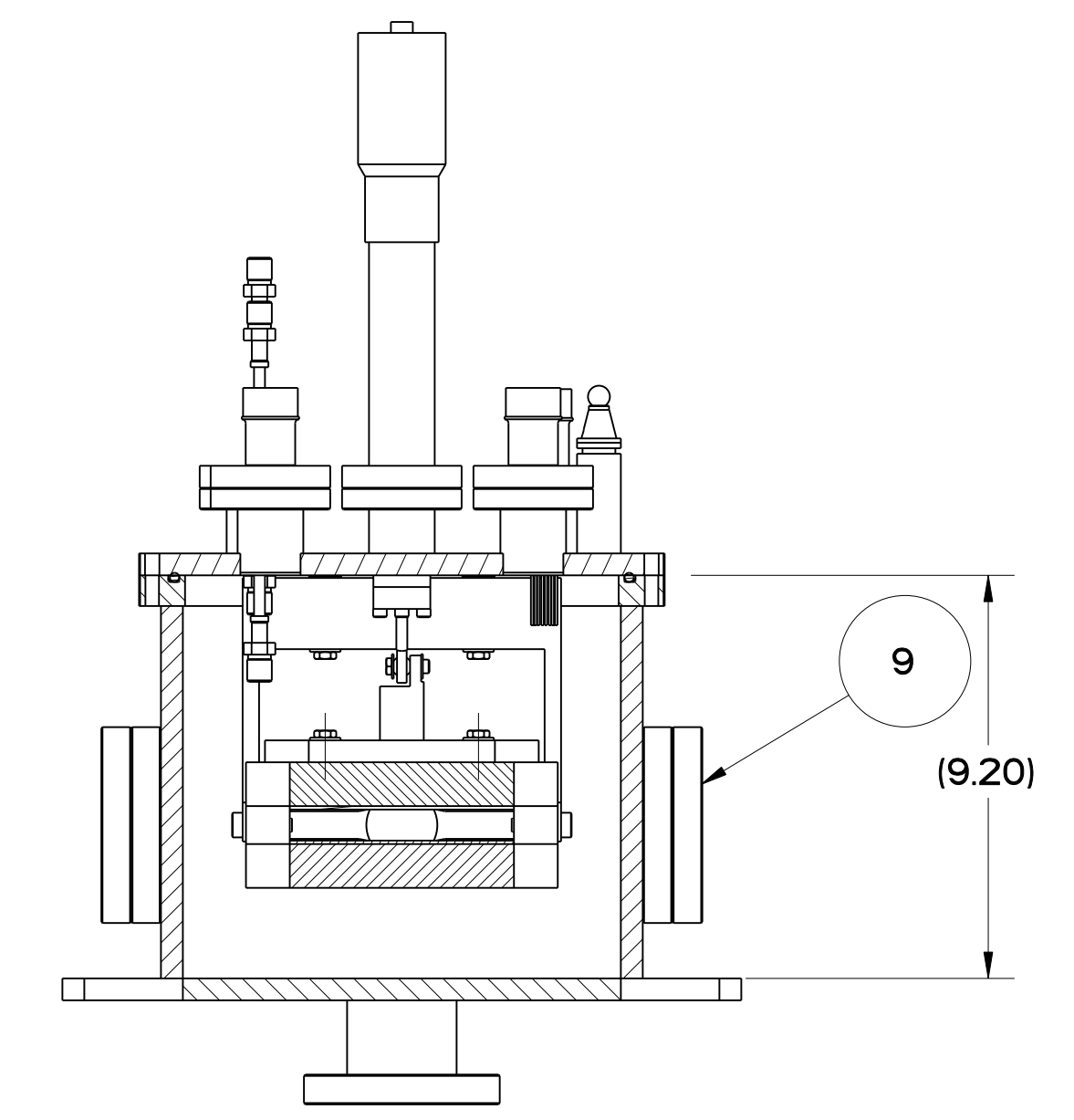
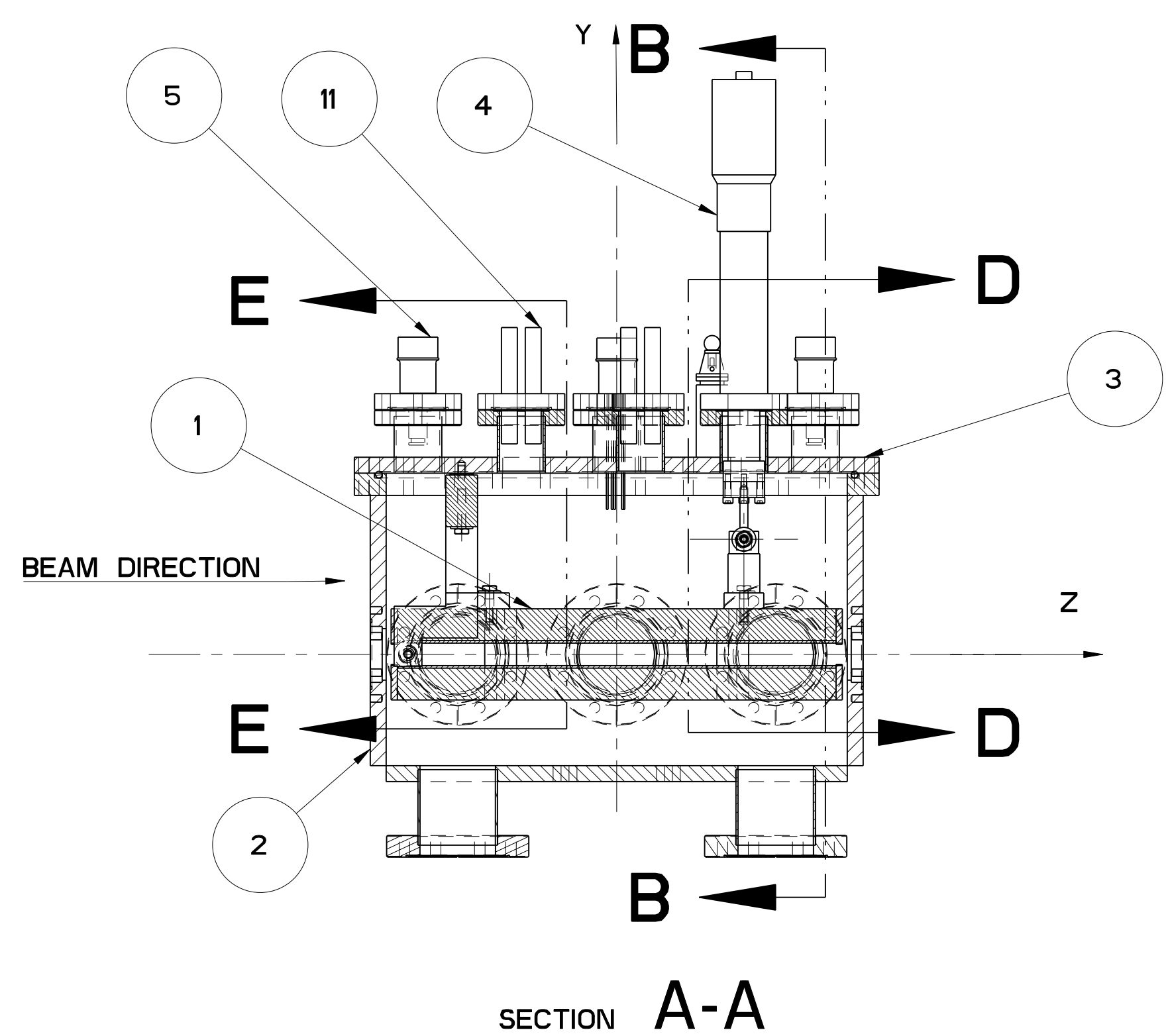
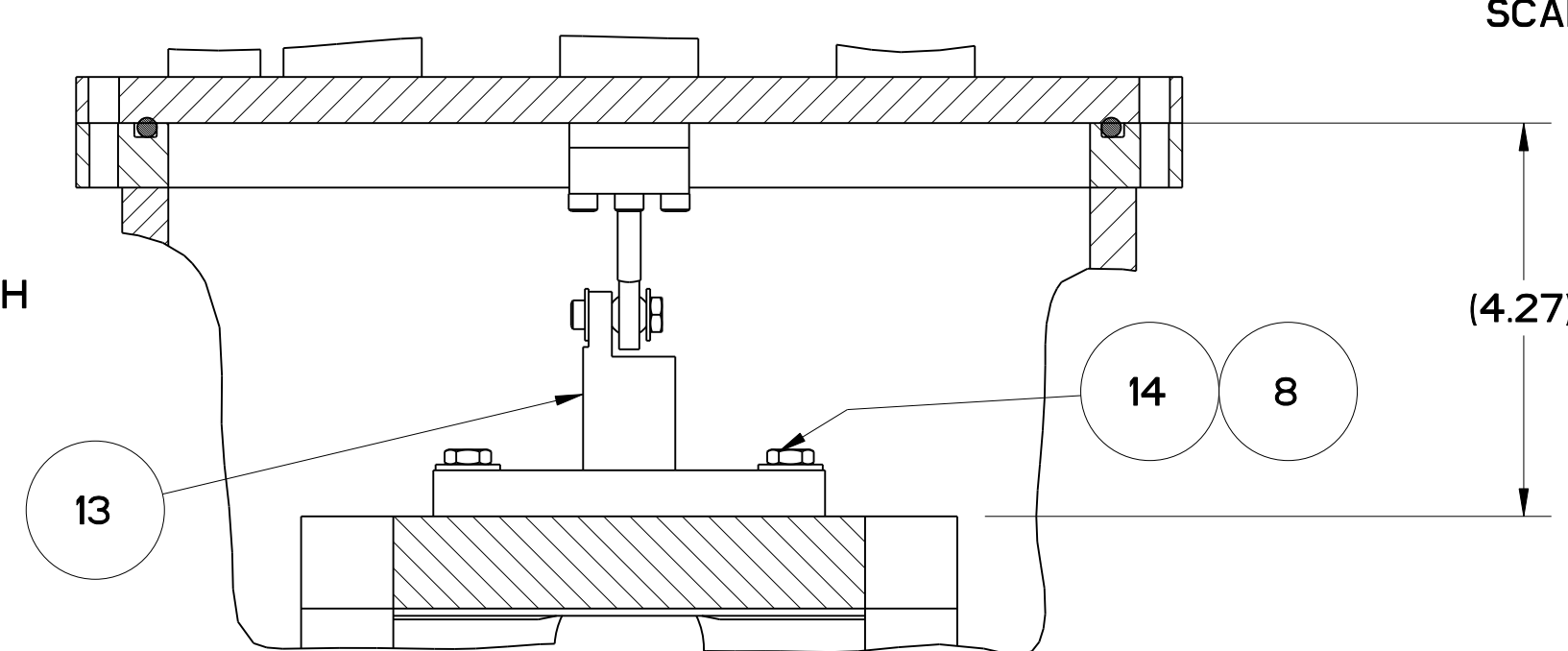
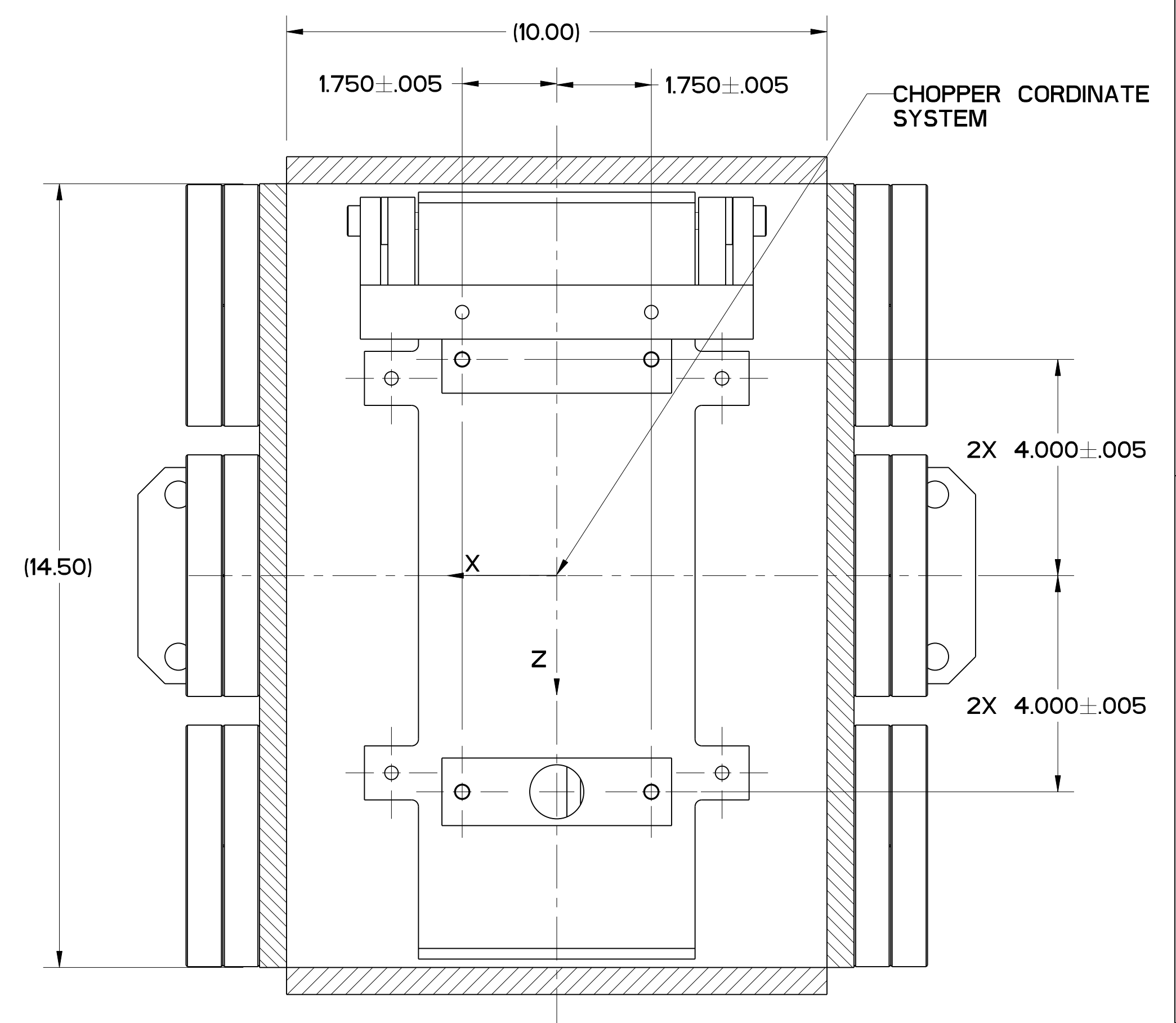
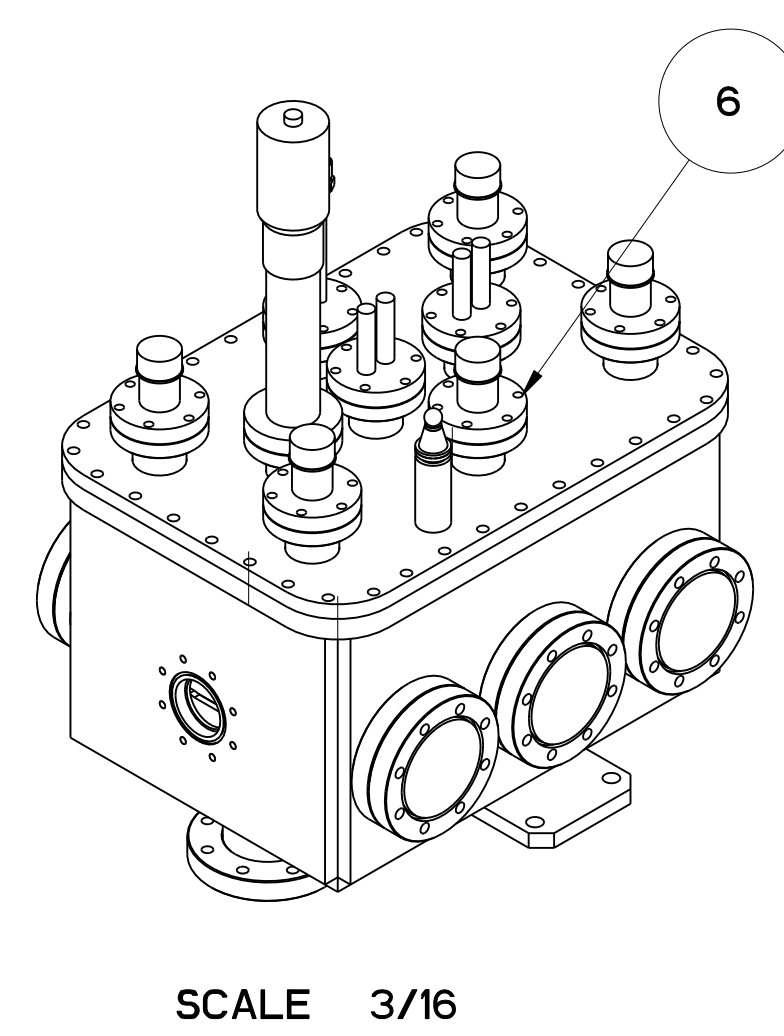
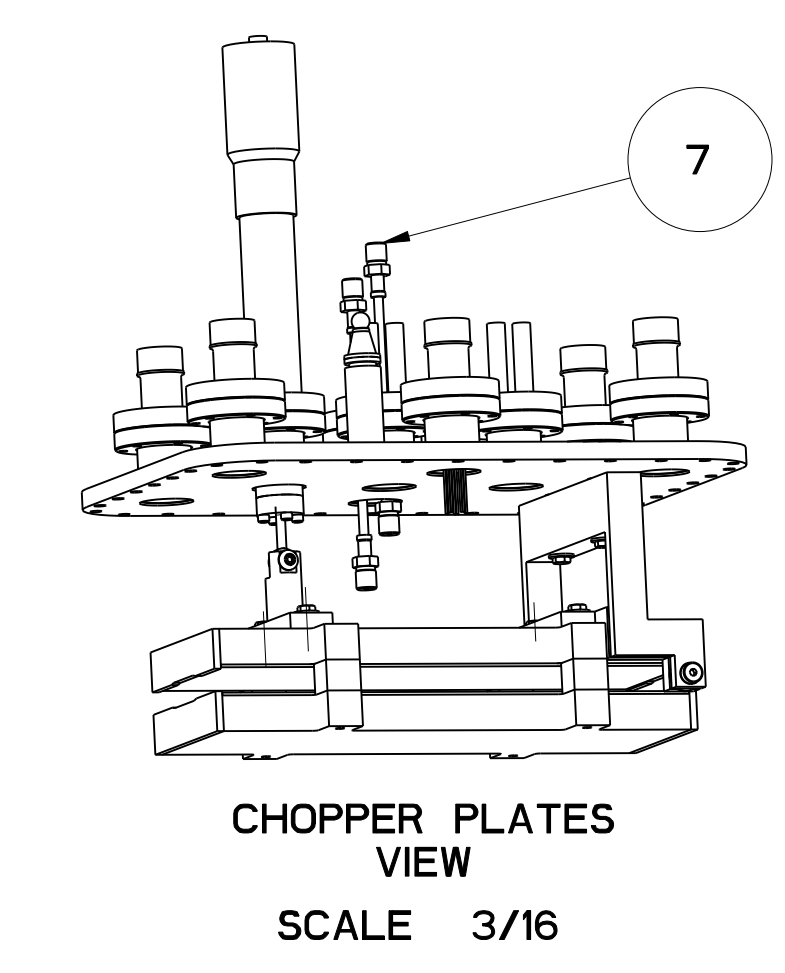
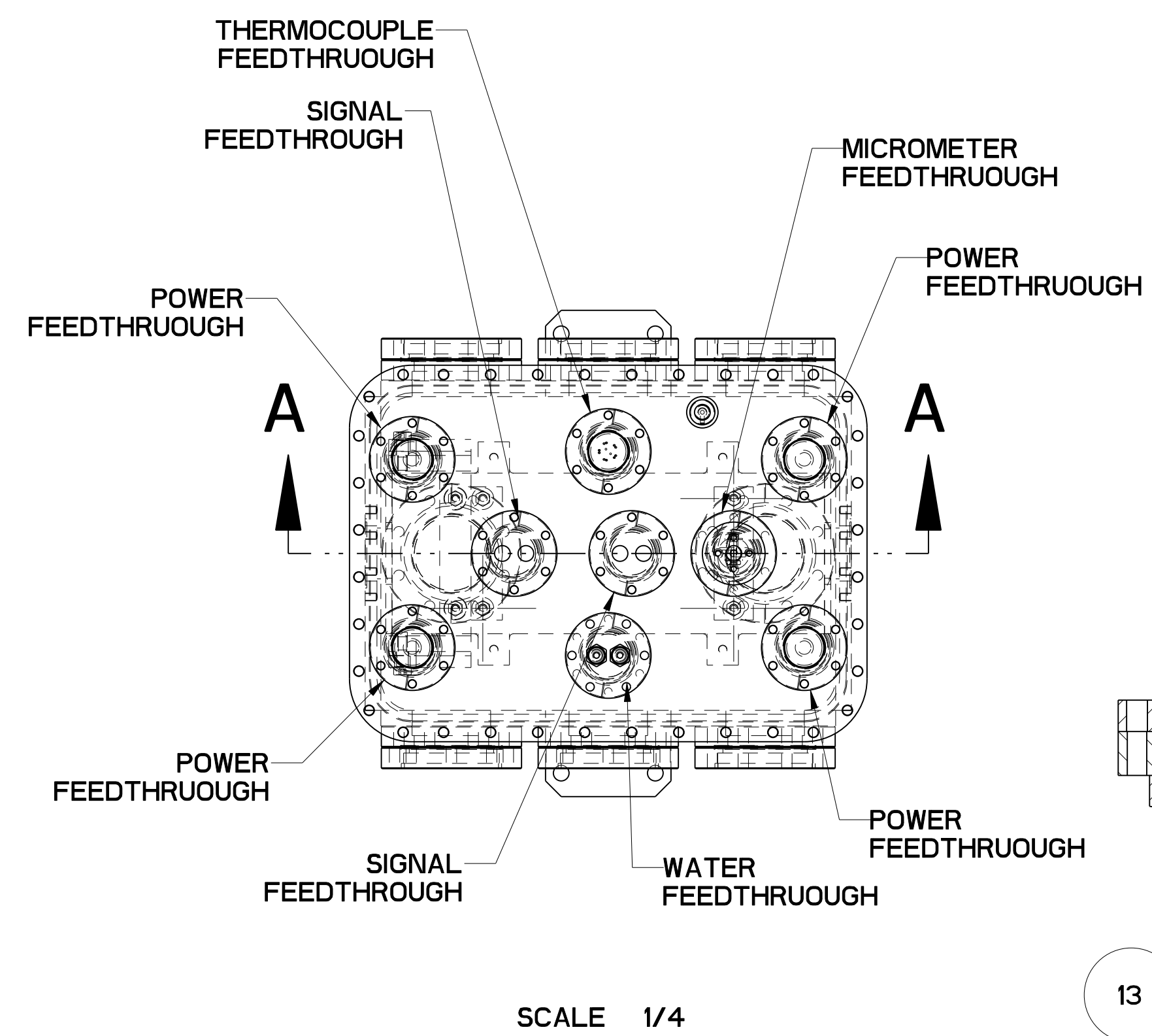
1. **Chopper Systems FDR (DWG)** Daryl
 - Video Conference w/ LANL next Thursday (1/11/01, 8:30 AM)
 - Topics:
 - Mechanical Interface Finalization
 - Responsibilities (who is delivering what to whom)
 - Schedule

2. **Raft Systems FDR (MEBT)** Daryl
 - Review Topics
 - Task list

3. **Chopper Target Fabrication Update** Allan/Daryl

4. **Upcoming Tasks and Milestones**
 - ◆ Raft Systems FDR 1/31/01 OR,UC
 - ◆ Rebuncher Cavity #1 Received 1/31/01 OR
 - ◆ Profile Monitor FDR 1/31/01
 - ◆ Profile Monitor First Article Complete 3/31/01
 - ◆ Chopper Target Complete 4/30/01
 - ◆ Chopper Vacuum Enclosures Complete 5/31/01
 - ◆ Raft and Support Structure Complete 5/31/01 OR
 - ◆ Profile Monitor all complete 7/31/01

Next Meeting, Thursday, 1/18/01, 10 AM



ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
18		4	SHIM SUSPENSION	
16	nnXnnn	2	THIRD LINE TITLE	VESPEL SP-3
14		4	HEX. HD. BOLT 25-28 UNF 2A, .75	
13	nnXnnn	1	BALL JOINT ASSEMBLY	-
12	nnXnnn	1	INNER PIVOT BRACKET	-
11	nnXnnn	2	SIGNAL FEEDTHROUGH	-
10	nnXnnn	1	OUTER PIVOT BRACKET	-
9	nnXnnn	6	4 1/2 CONFLAT VIEW PORT	-
8		6	WASHER 25 NOM	
7	nnXnnn	1	WATER FEEDTHROUGH	-
6	nnXnnn	1	THERMOCOUPLE FEEDTHROUGH	-
5		4	POWER FEEDTHROUGH (LANL)	
4	nnXnnn	1	CHOPPER MICROMETER FEEDTHROUGH	-
3	25B426	1	CHOPPER BOX COVER ASSEMBLY	-
2	25B421	1	CHOPPER BOX WELDMENT	-
1	nnXnnn	1	CHOPPER PLATES ASSY (LANL)	-

REV	DWG	CHK	ZONE	DATE	CHANGES

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS	
PROJECTION:	ACCT NO.	SER. NO.	DATE
TOLERANCES:	NO. 1	ISSD	DATE
XX ± .01	FRAC ± 1/84	RECD	DATE
XXX ± .003	Angles ± 10°		
XXXX ± .0010	FINISH 12/1		
DO NOT SCALE PRINT			
THREADS ARE CLASS 2			
CHAMFER ENDS OF ALL SCREW THREADS 30°			
CUT ROUND, 15 THREAD RELIEF ON MACHINED THREADS			
BREAK EDGES .016 MAX. ON MACHINED WORK			
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE			
IN ACCORDANCE WITH ASME Y14.5M & B46.1			

ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

SNS - FE MBT
BEAM TRANSPORTATION SYSTEMS
CHOPPER ASSEMBLY INTERFACE

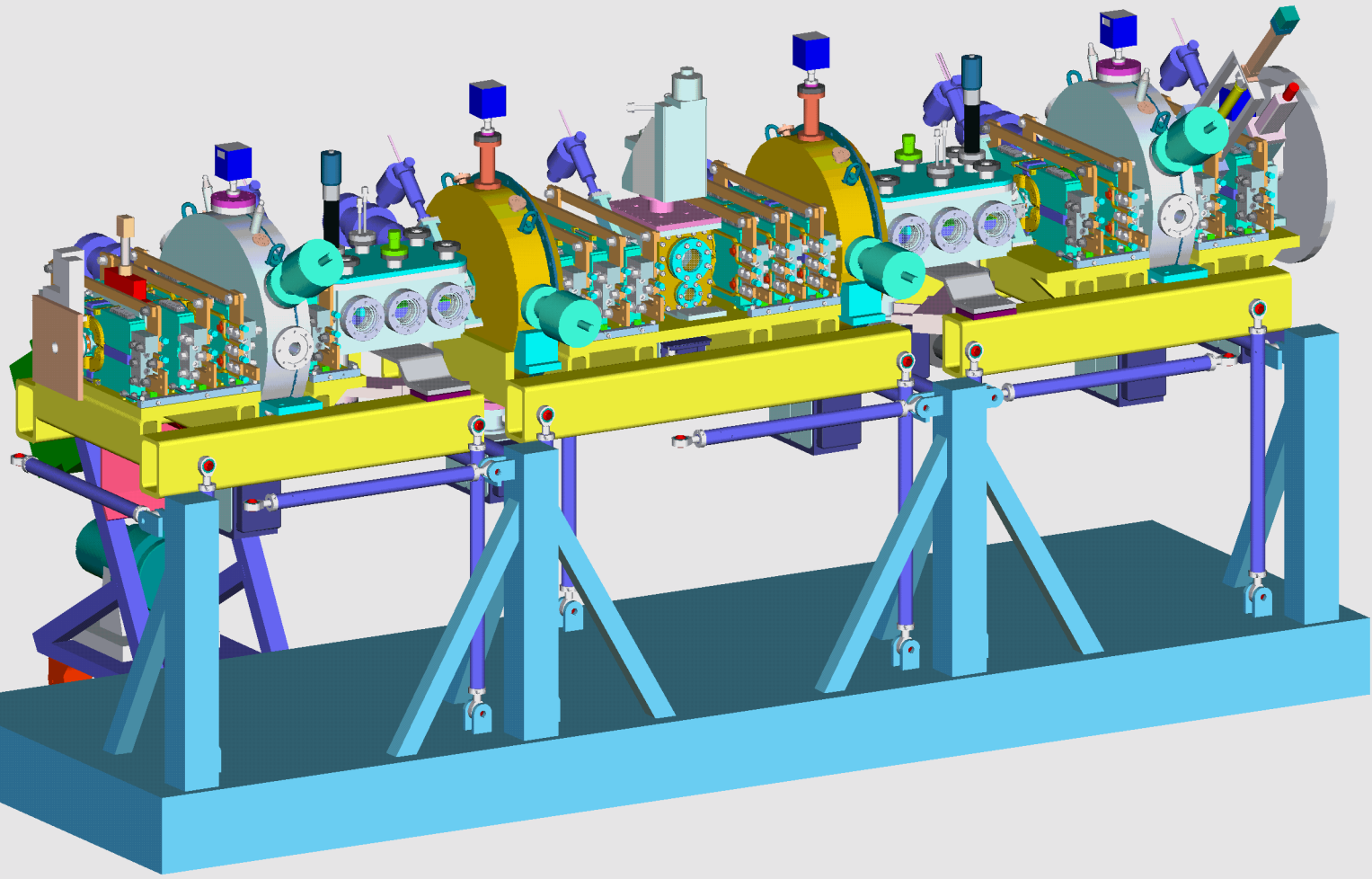
ASSEM

SCALE: 1/4

SHEET 1 OF 1

DWG. NO. 25B4204

REV. B





MEBT Raft / Frame FDR

Review Topics:

1. Requirements

- Alignment requirements (Beam Dynamics Error Study)
- Operational, shipping, and handling requirements

2. Mechanical Design

- Raft mechanical design
 - Beamline interfaces
 - Fabrication Considerations (fabrication tolerances)
- Frame mechanical design
 - Struts and strut mounts
 - Raft Interfaces
 - Floor Interfaces
- Stress, deflection, and vibration analysis

3. Assembly and Installation

- Assembly and alignment of components on rafts
- Installation and alignment of rafts on frame
- Shipping and lifting procedures

4. Cost, Schedule, Procurement Plan



MEBT Support and Alignment Tasks

Raft Design Tasks

1. **Analyze requirements** Daryl, 2 weeks effort
 - Identify all component interfaces with rafts
 - Determine alignment requirements
 - Determine fabrication tolerances
 - Determine access requirements
2. **Update Geometry** Designer, 2 weeks effort
 - Model all components interfaces with rafts
 - Change raft geometry to allow access to interfaces
3. **Detailed Engineering** Engineer, 3 weeks effort
 - Stress, stiffness, vibration analysis / documentation
 - High consequence lift / shipping documentation
4. **Detailed Design** Designer, 4 weeks effort
 - Create detailed fabrication drawings of raft components
 - Determine mounting locations for all components
5. **Fabrication Coordination** Engineer/Designer

Frame Design Tasks

1. **Analyze requirements** Engineer, 2 weeks effort
 - Identify all components interfaces with rafts
 - Determine alignment requirements
 - Determine access requirements
2. **Update Geometry** Designer, 2 weeks effort
 - Model all interfaces with rafts, pump carts, floor
 - Change frame geometry to allow access to interfaces
3. **Detailed Engineering** Engineer, 3 weeks effort
 - Stress, stiffness, vibration analysis / documentation
 - High consequence lift / shipping documentation
4. **Detailed Design** Designer, 3 weeks effort
 - Create detailed fabrication drawings for frame components
 - Determine mounting locations for all components
5. **Fabrication Coordination** Engineer/Designer