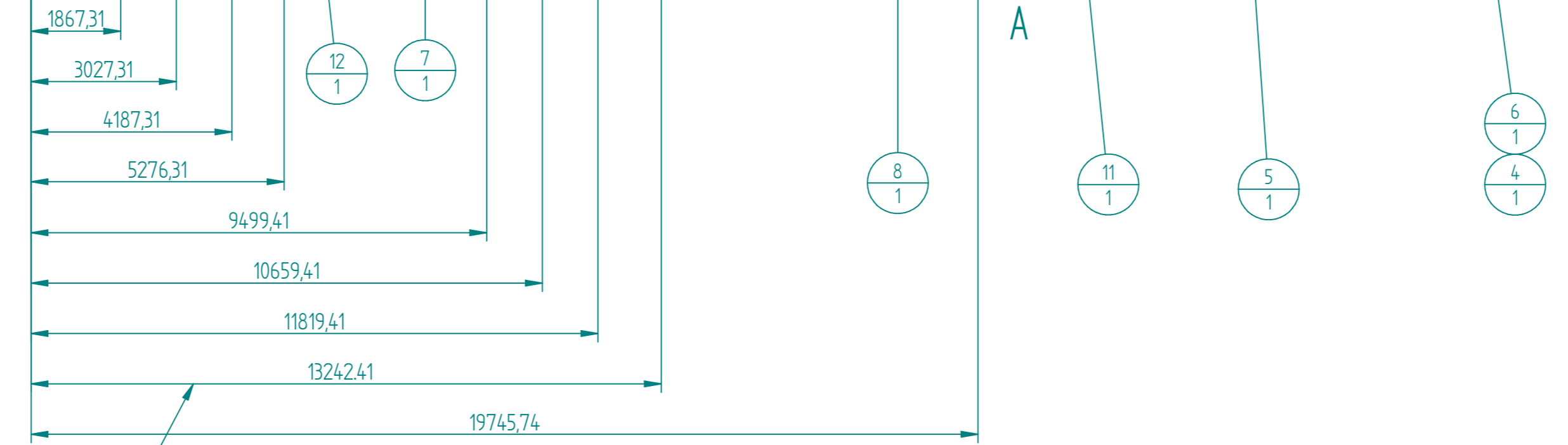
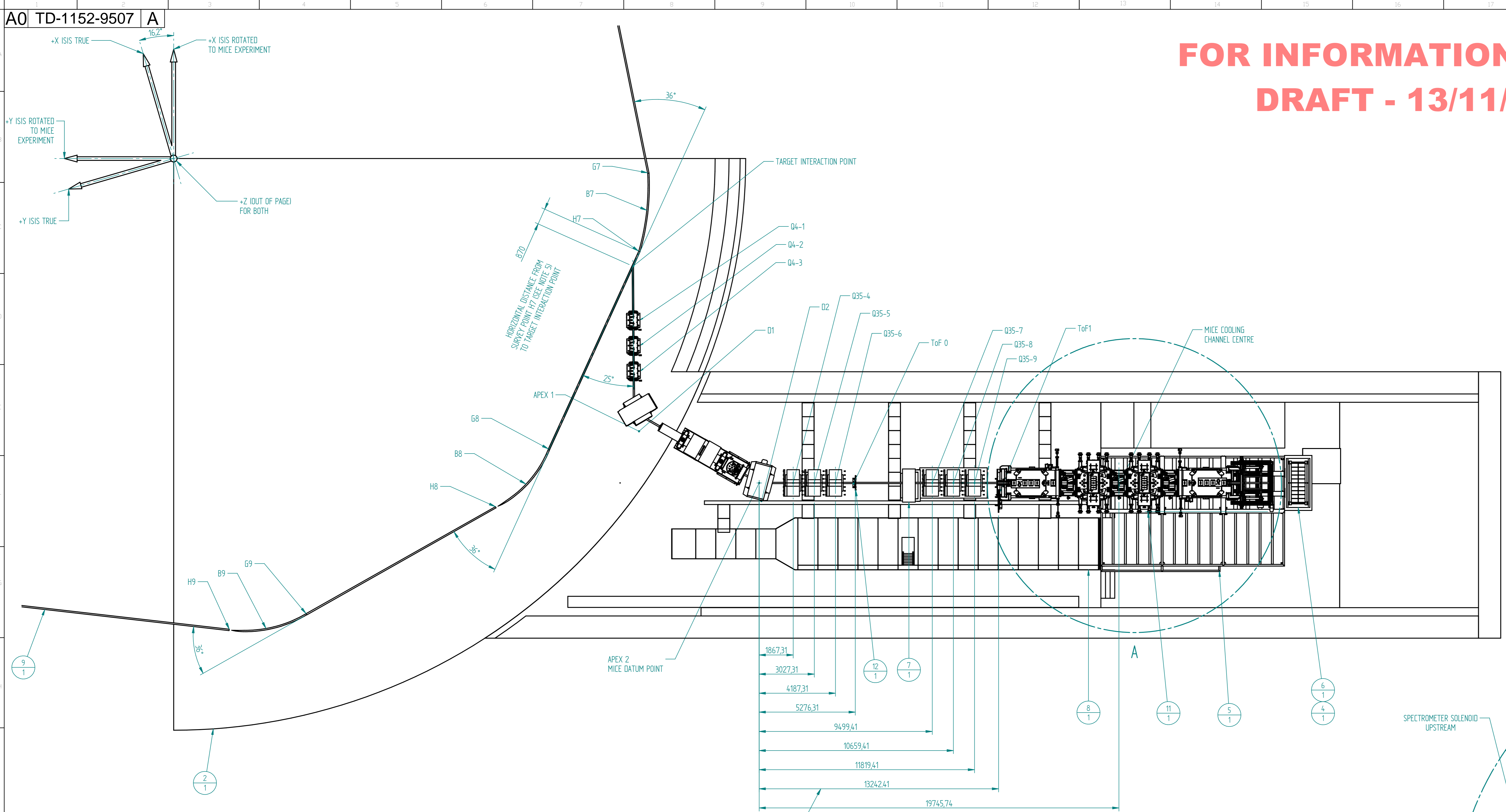


FOR INFORMATION ONLY DRAFT - 13/11/11

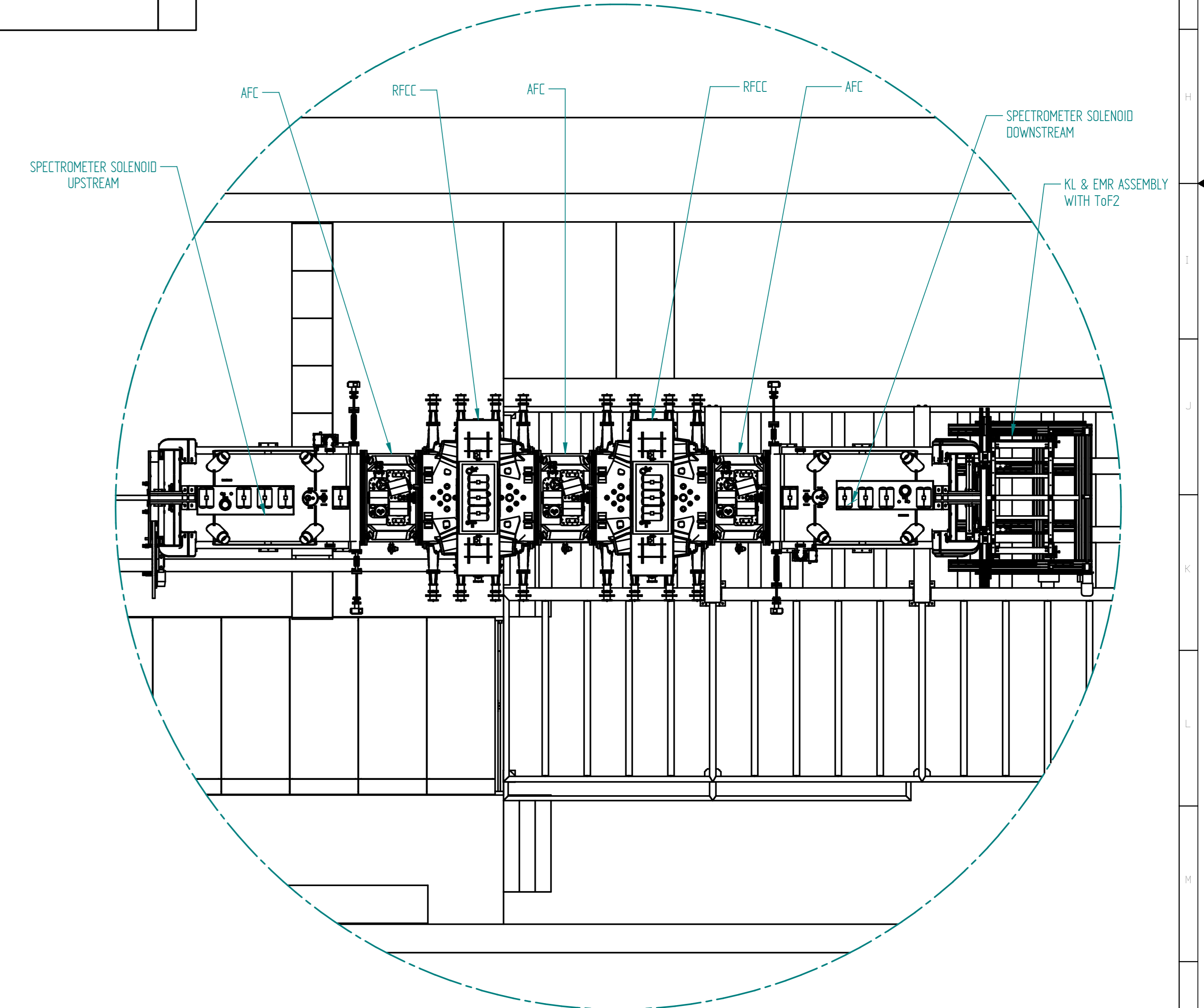
LOCATION FROM ISIS IN ISIS CO-ORDINATE SYSTEM			
MICE BEAM LINE ELEMENT	X	Y	Z
TARGET INTERACTION POINT	-12690.654	-22553.432	-565
Q4-1	-15574.247	-21741.353	-405.57
Q4-2	-16919.924	-21362.383	-331.169
Q4-3	-18265.801	-20983.413	-256.769
APEX 1	-20413.762	-20378.447	-138
D1	-20357.416	-20601.24	-150.23
SOLENOID ENTRY	-21596.05	-21529.401	-138
SOLENOID EXIT	-25374.356	-25207.571	-138
APEX 2 / MICE DATUM POINT	-26072.334	-25887.051	-138
D2	-25983.673	-25940.1	-138
Q35-4	-26593.297	-27680.215	-138
Q35-5	-26916.927	-28794.156	-138
Q35-6	-27240.556	-29908.096	-138
ToF 0	-27544.378	-30953.856	-138
Q35-7	-28722.585	-35009.272	-138
Q35-8	-29046.215	-36123.213	-138
Q35-9	-29369.844	-37237.154	-138
ToF 1	-29766.849	-38603.852	-138
MICE CENTRE	-31570.06	-44810.347	-138

Item Number	Document Number	Title	Quantity
1*	TD-1152-9506	MICE HALL SKELETON	1
2	TD-1152-9509	MICE HALL - SIMPLE - BOTTOM	1
3*	TD-1152-9013	MICE-ISIS COORD-SYSTEMS	1
4	TD-1152-0373	CONCRETE PLINTH	1
5	TD-1152-0002	FALSE FLOOR	1
6	TD-1152-0008	STATIC BEAM STOP	1
7	TD-1152-0463	MOBILE BEAM-STOP	1
8	TD-1152-9511	TRENCH COVER ASSY	1
9	TD-1152-9513	MICE HALL BEAM LINE	1
10*	TD-1152-9236	COORD SYS MARKER	2
11	TD-1152-6001	STEP 6 COOLING CHANNEL	1
12	TD-1152-9145	ToF 0	1
13*	TD-1152-9084	DELIVERY CHANNEL ASSY	1

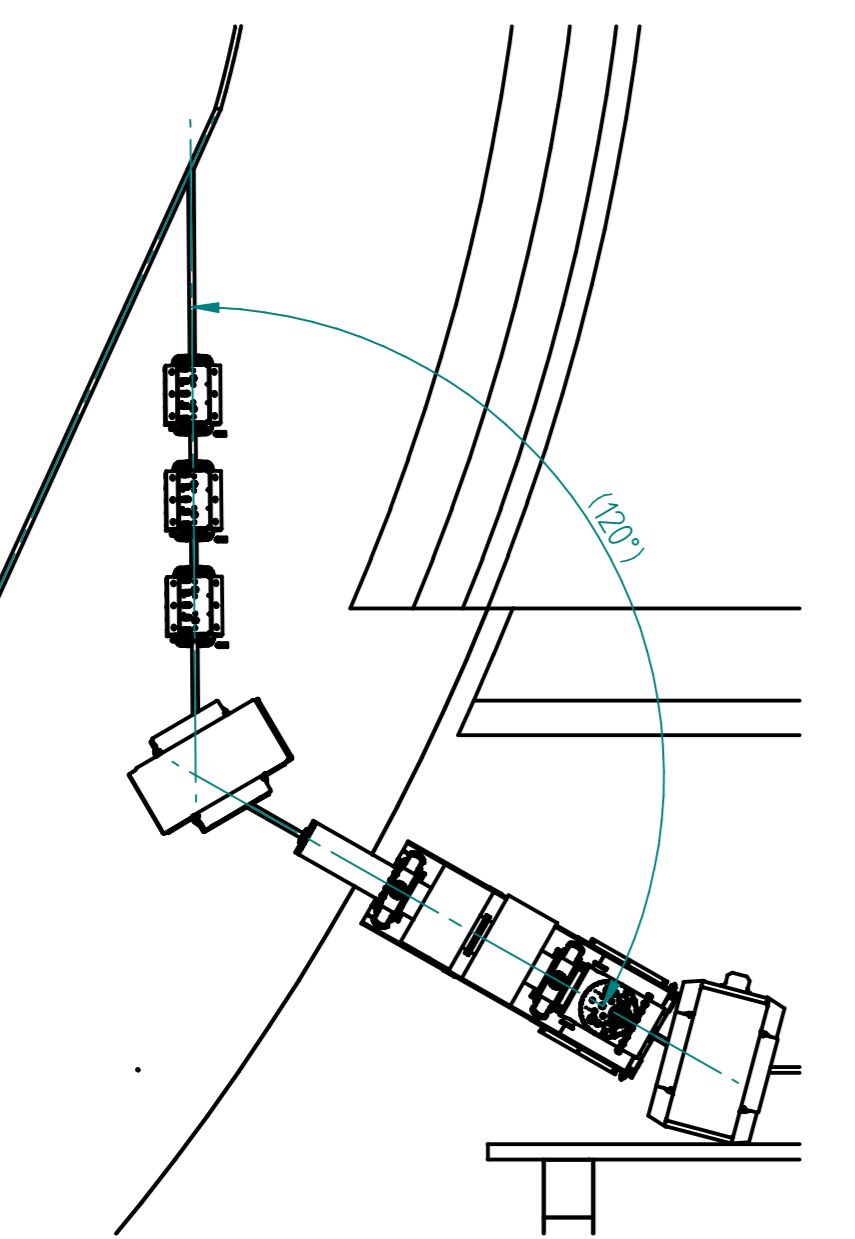
* ITEMS ARE DATUM OR CONSTRUCTION FEATURES



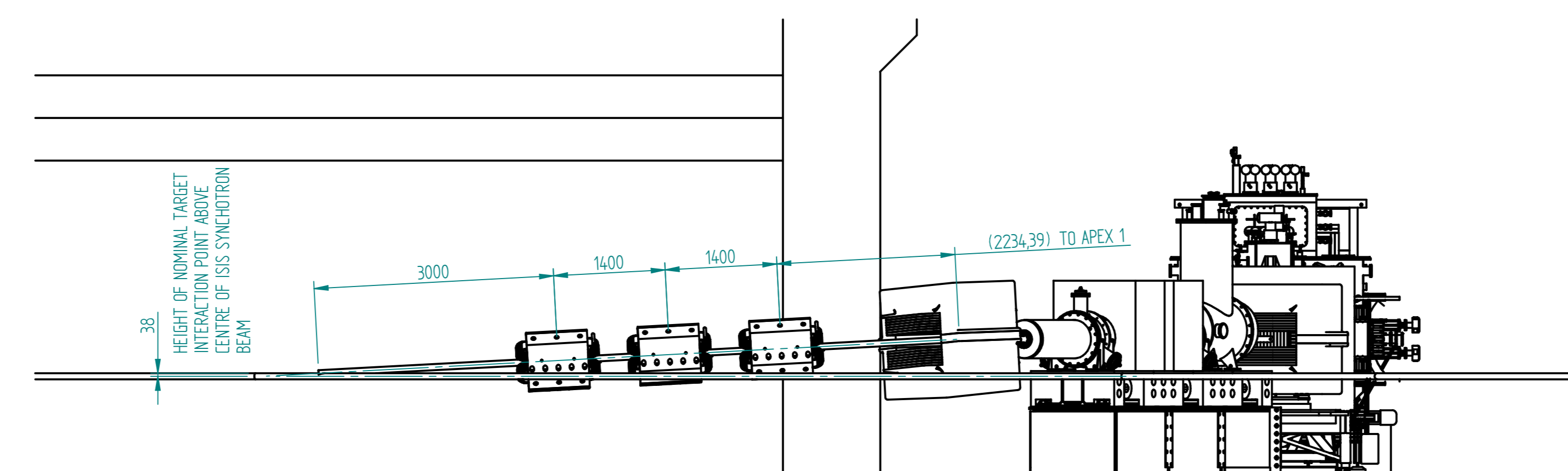
the ToF 1 has been moved to meet the dimension as shown in TD-1055-020 but this might clash with the ToF cage... TO BE CHECKED!



DETAIL A
STEP VI DEVICES



VIEW NORMAL TO PLANE OF BEAM FROM INTERACTION POINT TO Q2



VIEW NORMAL TO BEAM THROUGH Q4-1 TO Q4-3

NOTES

- TABLE GIVES POSITION OF MICE BEAMLINE ELEMENTS FROM ISIS CENTRE IN ISIS COORDINATE SYSTEM (DIMENSIONS IN mm).
- THE Z COORDINATE IS MEASURED FROM ISIS TOOLING HEIGHT.
- COORDINATES FOR THE SOLENOID ARE DEFINED AS FOLLOWS:
SOLENOID ENTRY - ON COIL CENTRELINE AND IN PLANE OF VACUUM VESSEL FACE (NOSE)
SOLENOID EXIT - ON COIL CENTRELINE AND IN PLANE OF VACUUM VESSEL FACE (EXIT END)
- COORDINATES FOR THE OTHER MAGNETS ARE GIVEN TO THE THEORETICAL MAGNETIC CENTRE.
- COORDINATES OF 'B', 'G' & 'H' IS SURVEY POINTS AS DEFINED IN DRAWING SI-5100-105-04 ISSUE 1
- FOR SURVEYING DETAILS OF THE BEAMLINE ELEMENTS INSIDE THE SYNCHROTRON HALL REFER TO DRAWING SI-6305-114 ISSUE D.
- POSITIONS OF ToF0 & ToF1 ARE TO THEORETICAL POSITIONS OF THE CENTRES OF THE DETECTORS
- THIS DRAWING PRODUCED FROM M HILLS (STFC) ORIGINAL PRO-E VERSION OF ESSENTIAL GEOMETRY TD-1055-020

A Error: No reference Mod No		J S TARRANT Error: No reference Mod No		MANUFACTURE ONLY WHEN STATUS IS RELEASED Error: No reference	
ISSUE	DATE APPD	MOD. No.	DRAWN BY	CHKD BY	APPD BY
TOLERANCES UNLESS STATED			SURFACE TEXTURE		
LINEAR ± NA			N/A μm		
ANGULAR ± NA			N/A		
DRAWING CONFORMS TO BS 8888			MATERIAL & SPEC. MASS 0.000 kg		FINISH N/A
TOLERANCING ISO 8015			REMOVE ALL BURRS		
DIMENSIONS IN mm UNLESS STATED			USED ON		
PROJECTS & MECHANICAL ENGINEERING GROUP (RAL)					
HARWELL SCIENCE & INNOVATION CAMPUS, RUTHERFORD APPLETON LABORATORY, CHILTON, OXON, OX11 0QX					
STEP 6 - ESSENTIAL GEOMETRY					
MICE INTEGRATION ENGINEERING					
MICE TD-1152-9507		SHEET		1 of 1	