

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
2. FRAME SPACING IS 0.61 METERS.

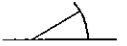
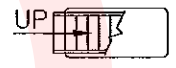


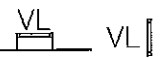







PRINCIPAL CHARACTERISTICS

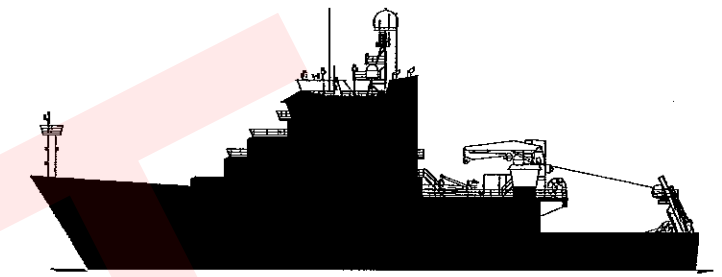
LENGTH – OVERALL	88.9m
LENGTH AT WATERLINE	80.9m
BEAM (MAX)	18.5m
DEPTH TO MAIN DECK (FROM BL)	9.45m
FREEBOARD AT WORKING DECK	3.95m
DRAFT	5.5m
DRAFT, NAVIGATIONAL	6.7m
DISPLACEMENT (FULL LOAD)	4575mt

ABBREVIATIONS

AP	AFT PERPENDICULAR
BHD	BULKHEAD
BL	BASELINE
CL	CENTERLINE
FP	FORWARD PERPENDICULAR
SW	SEAWATER
T/S	TOILET/SHOWER
VEG	VEGETABLE
VL	VERTICAL LADDER
WERP	WELDED EQUIPMENT REMOVAL PLATE
WT	WATERTIGHT
WTRTT	WATERTIGHT
WEAT	WEATHERTIGHT

SYMBOL LIST

	DOOR		INCLINED LADDER – UP
	ARCHWAY		INCLINED LADDER – UP/DN
	VERTICAL LADDER		MANHOLE
	HATCH		MANHOLE IN OVERHEAD
	HATCH ABOVE		SCUTTLE
	INCLINED LADDER – DN		SCUTTLE IN OVERHEAD



CLIENT ACCEPTANCE

REVISION	PHASE	DATE	INITIALS

APPROVAL STATUS

REVISION	APPROVAL AGENCY	DATE	INITIALS

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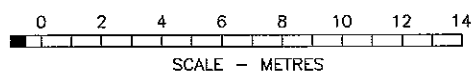
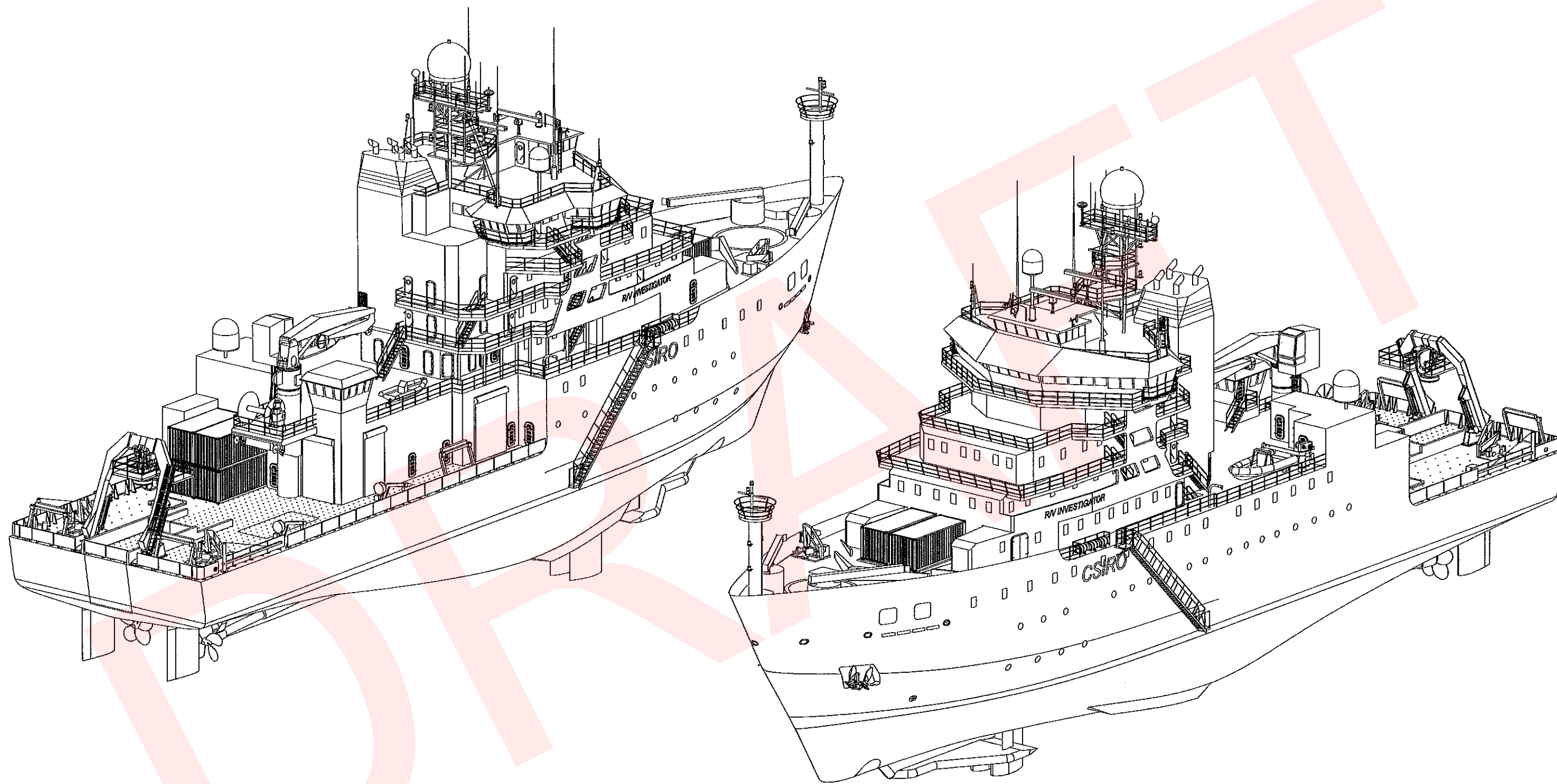
VESSEL MARINE NATIONAL FACILITY FUTURE
R.V. "THE INVESTIGATOR"


CLIENT SEMBAWANG SHIPYARD PTE LTD
AND TEEKAY SHIPPING (AUSTRALIA) LTD

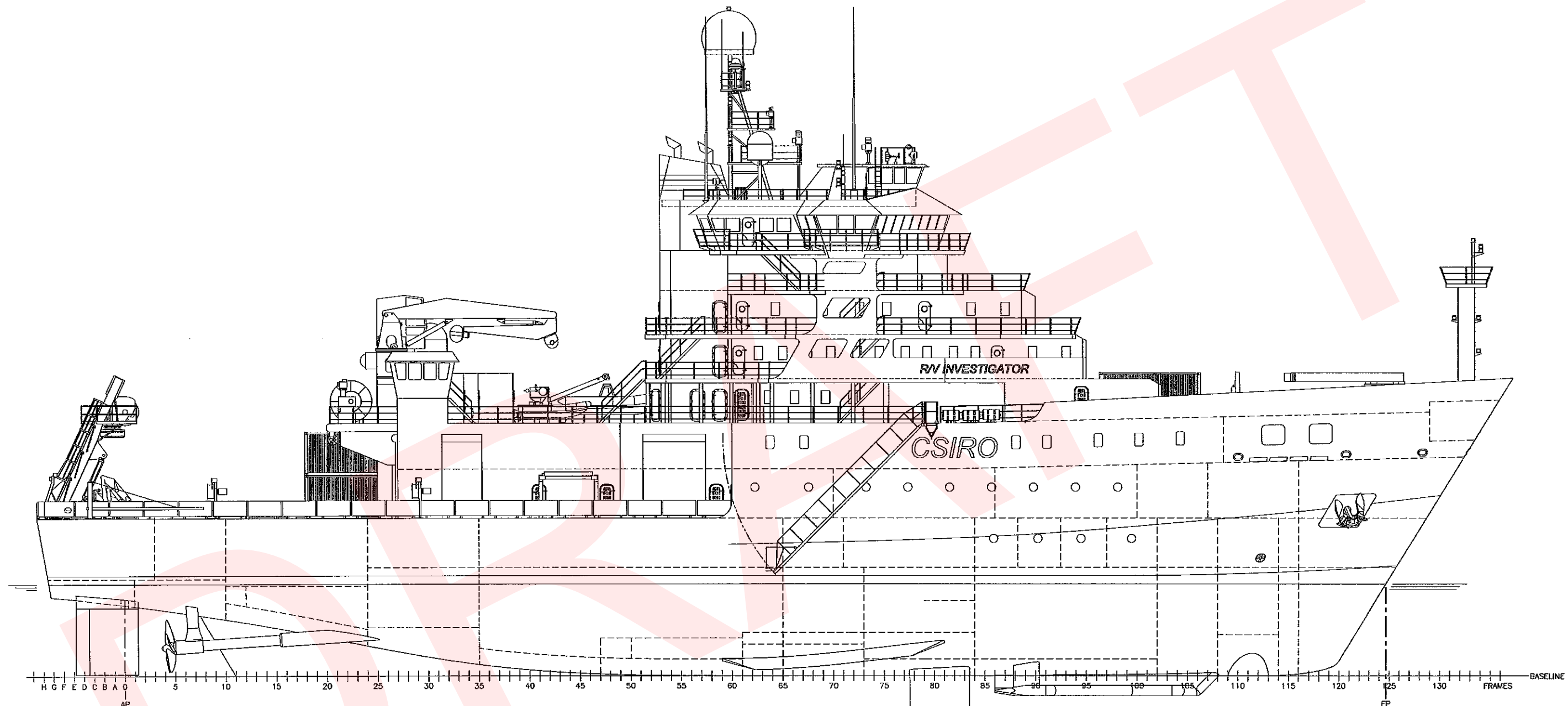
GENERAL ARRANGEMENTS

4	UPDATED ACCORDING TO PROJECT DEVELOPMENT	NOV. 18/10	PS	PC	MCO
3	UPDATED ACCORDING TO PROJECT DEVELOPMENT	OCT. 28/10	PS	PC	MCO
2	UPDATED ACCORDING TO PROJECT DEVELOPMENT	OCT. 11/10	PS	PC	MCO
1	FIRST ISSUE	AUG. 04/10	PS	PC	MCO
REV.	REVISIONS	DATE	DWN	CHK	APP.

DRAWN BY PS	ENG. DR	DATE NOV 2010	PLOT SIZE ISO A3	SHEET 1 OF 17
PROJECT No. 209-225	DRAWING No. 7917-001-602-1	REV. 4		




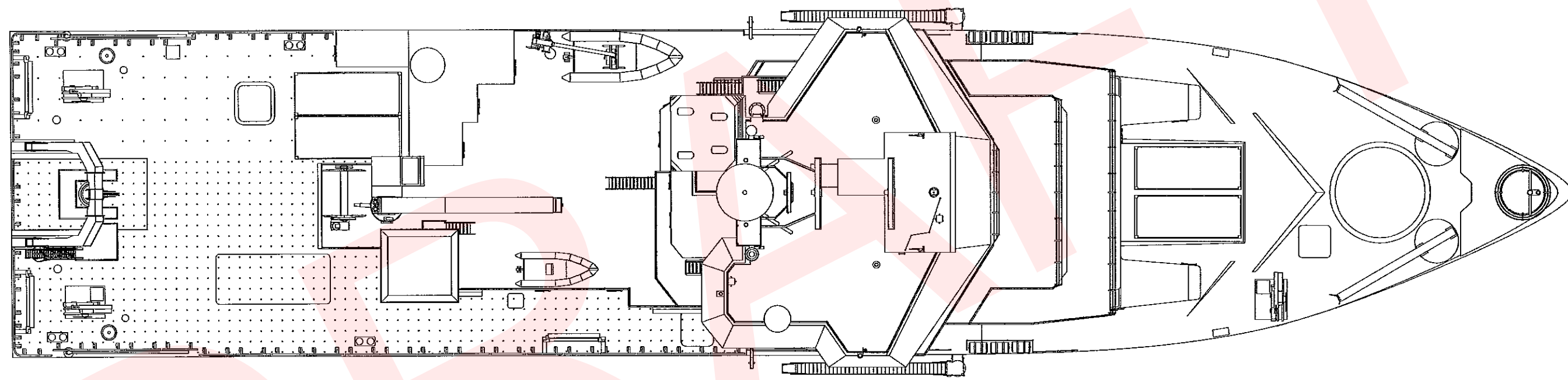
 <small>A Robert Allan Ltd. / Alion Science and Technology Joint Venture</small>			
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SCALE	DATE	PLOT SIZE	SHEET
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PROJECT No.	DRAWING No.	REV.	
209-225	7917-001-602-1	4	



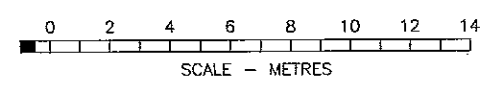
OUTBOARD PROFILE
DROP KEELS DEPLOYED


0 2 4 6 8 10 12 14
SCALE - METRES

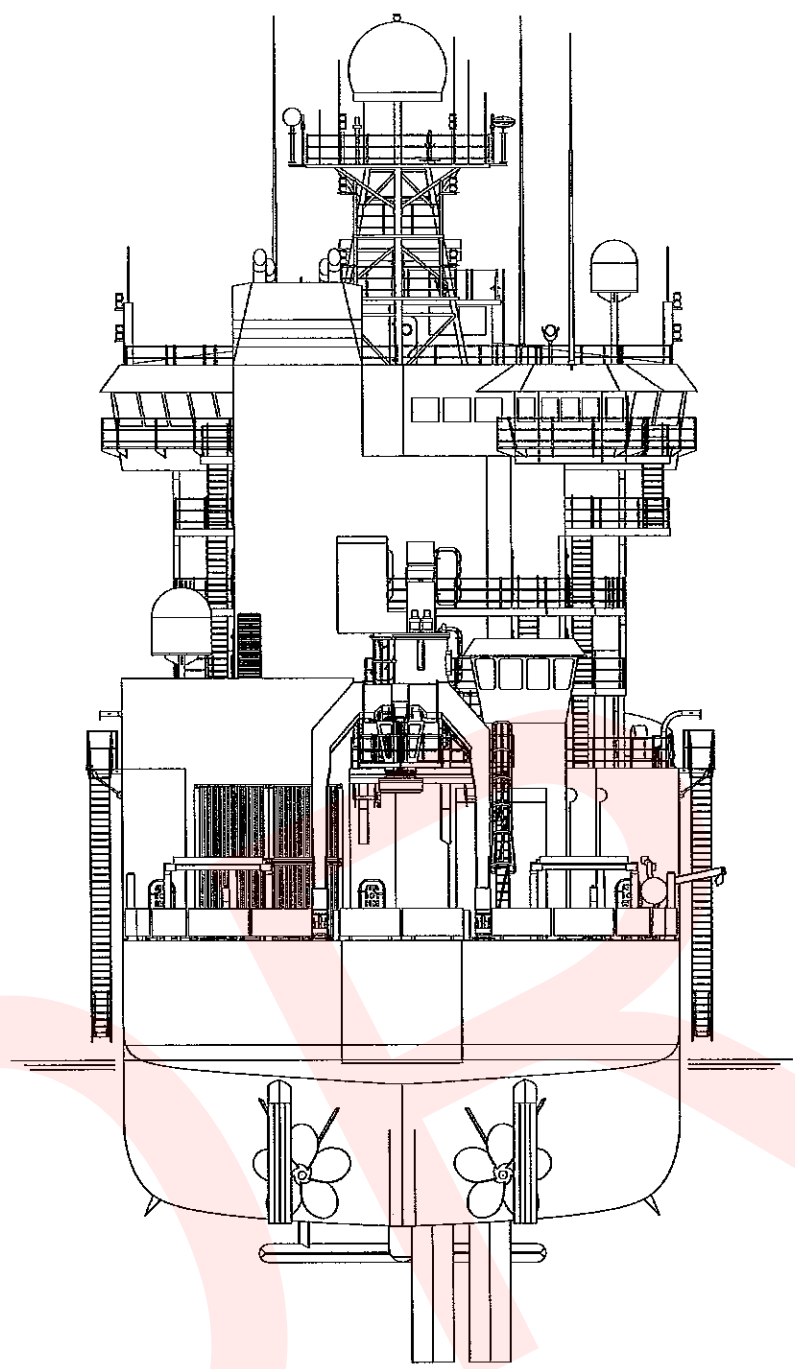
 <small>A Robert Allen Ltd. / Alison Science and Technology Joint Venture</small>			
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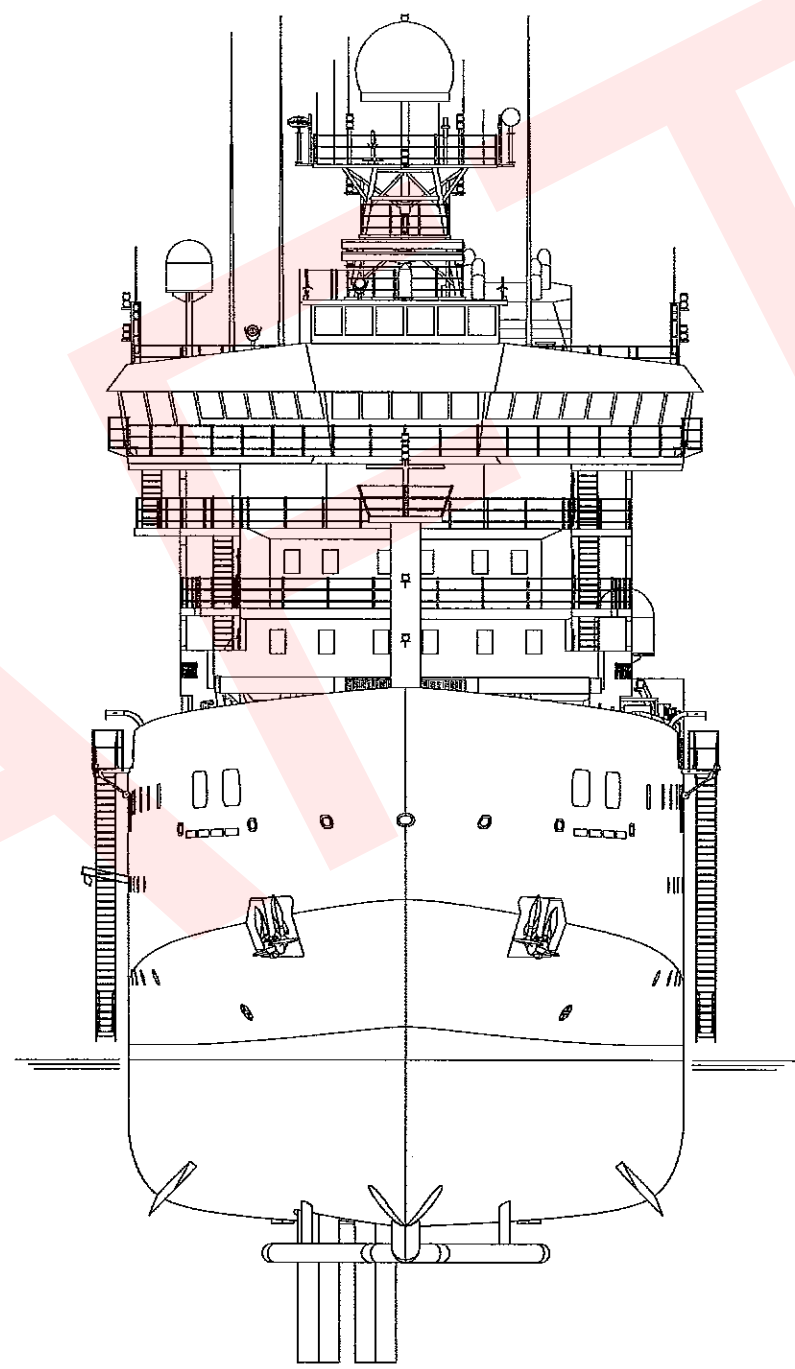
TOPSIDE VIEW



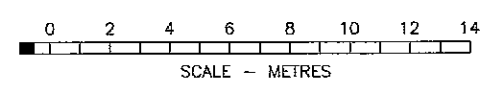
 <small>A Robert Allan Ltd. / Allon Science and Technology Joint Venture</small>			
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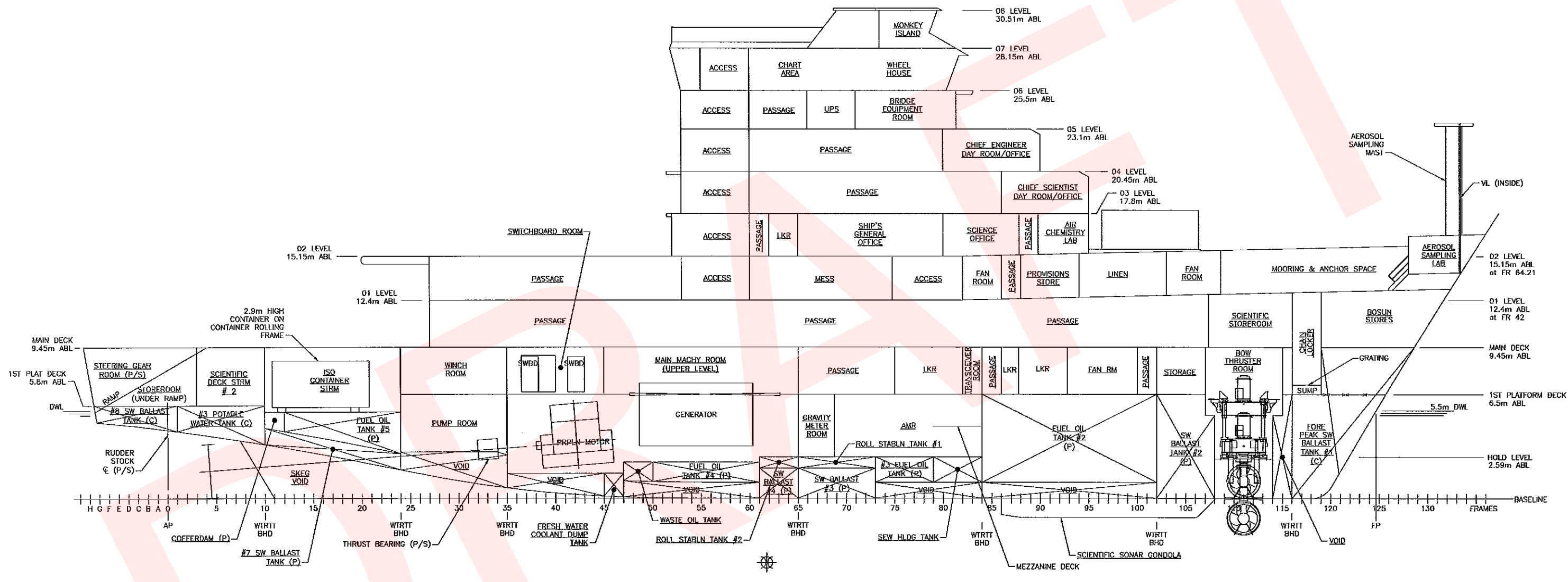
STERN VIEW
DROP KEELS DEPLOYED



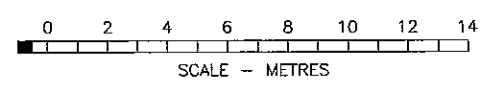
BOW VIEW
DROP KEELS DEPLOYED




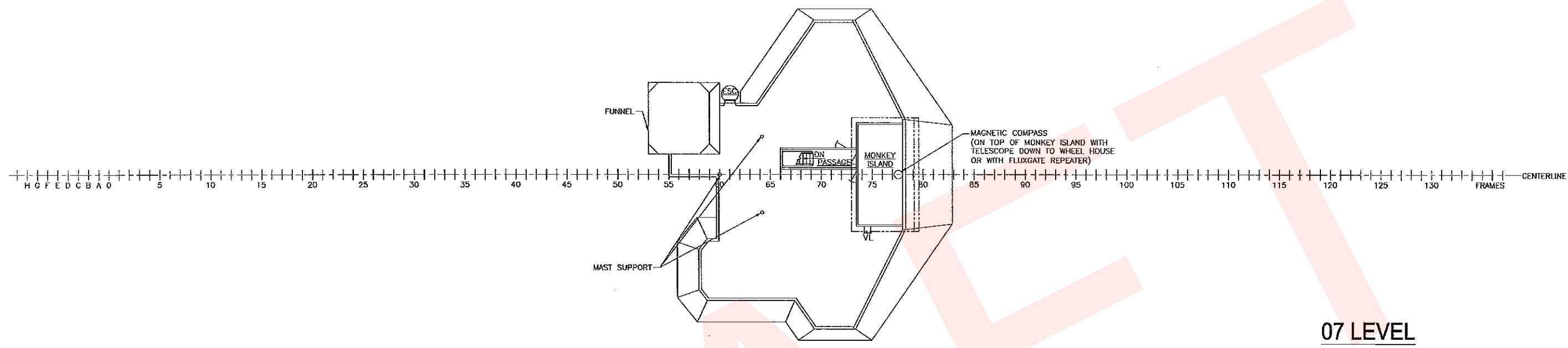
 <small>A Robert Allan Ltd. / Alion Science and Technology Joint Venture</small>			
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SCALE	DATE	PLOT SIZE	SHEET
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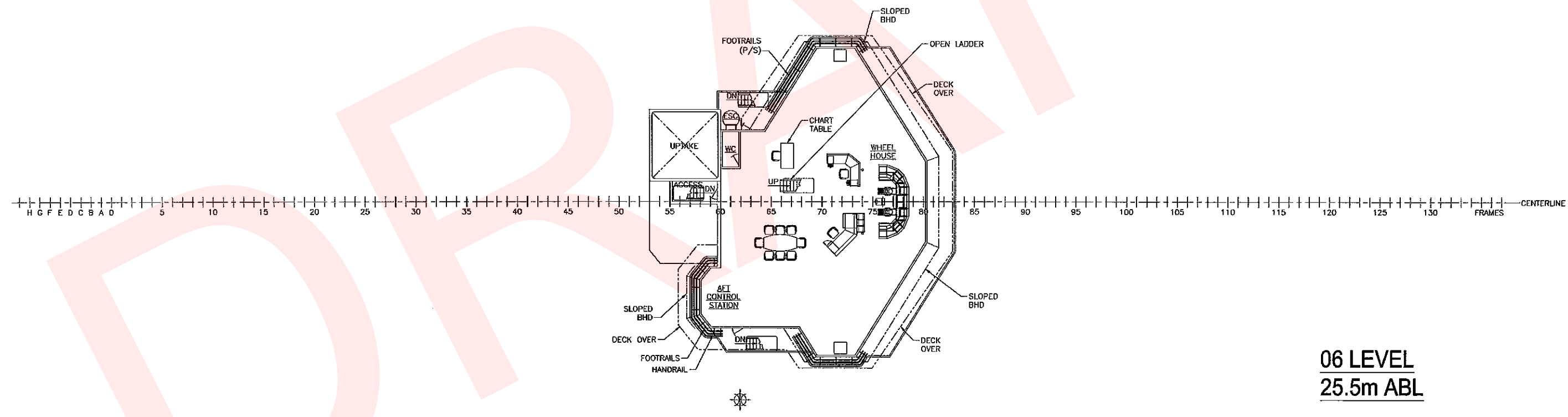
INBOARD PROFILE



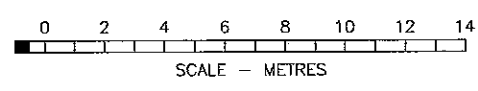
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SCALE	DATE	PLOT SIZE	SHEET
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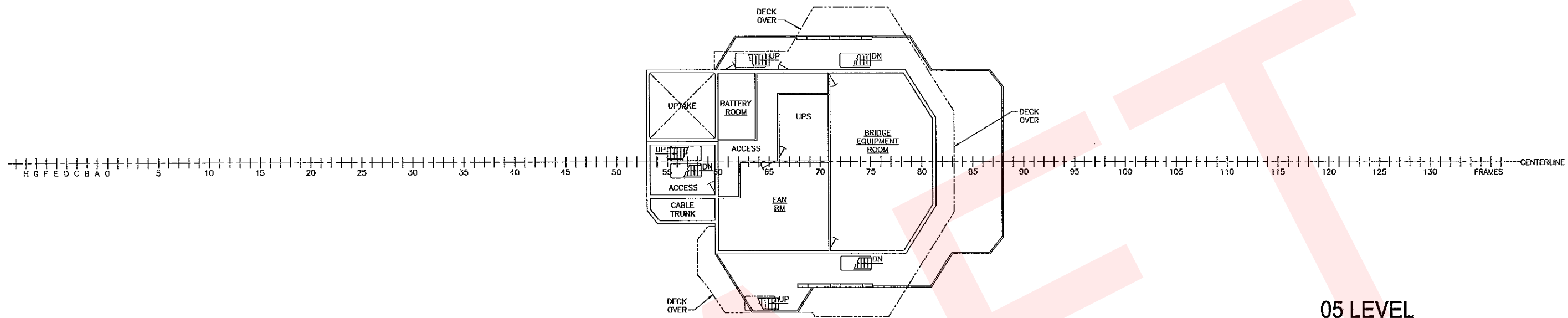
07 LEVEL
28.15m ABL



06 LEVEL
25.5m ABL

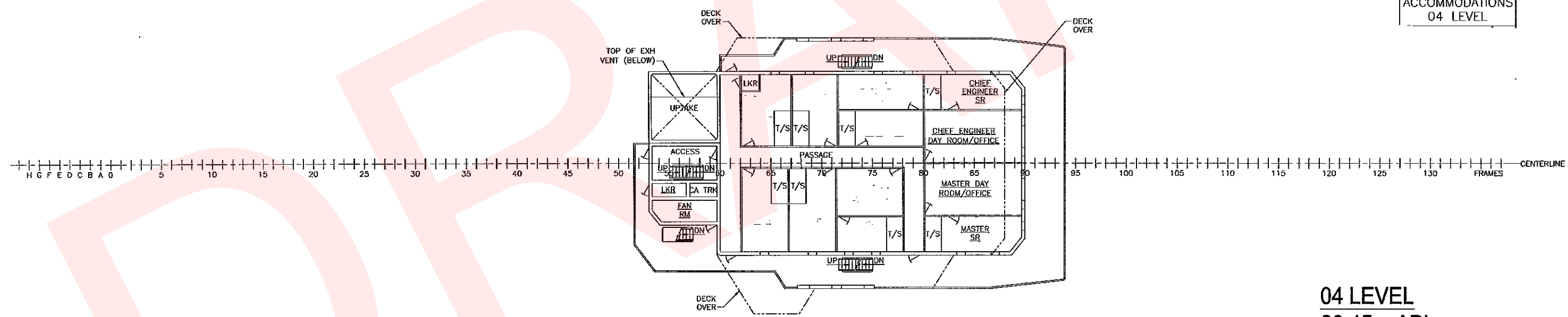


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TITLE GENERAL ARRANGEMENTS 07 LEVEL, 06 LEVEL			
SCALE 1:250	DATE NOV 2010	PLOT SIZE ISO A3	SHEET 7 OF 17
PROJECT No. 209-225	DRAWING No. 7917-001-602-1	REV. 4	

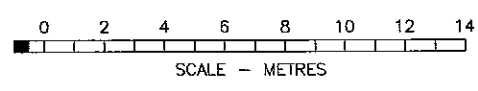


05 LEVEL
23.1m ABL

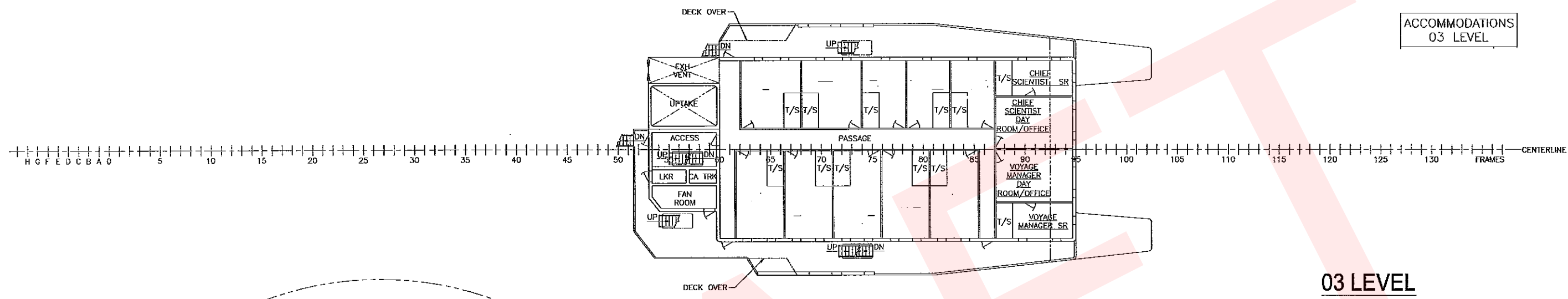
ACCOMMODATIONS
04 LEVEL



04 LEVEL
20.45m ABL

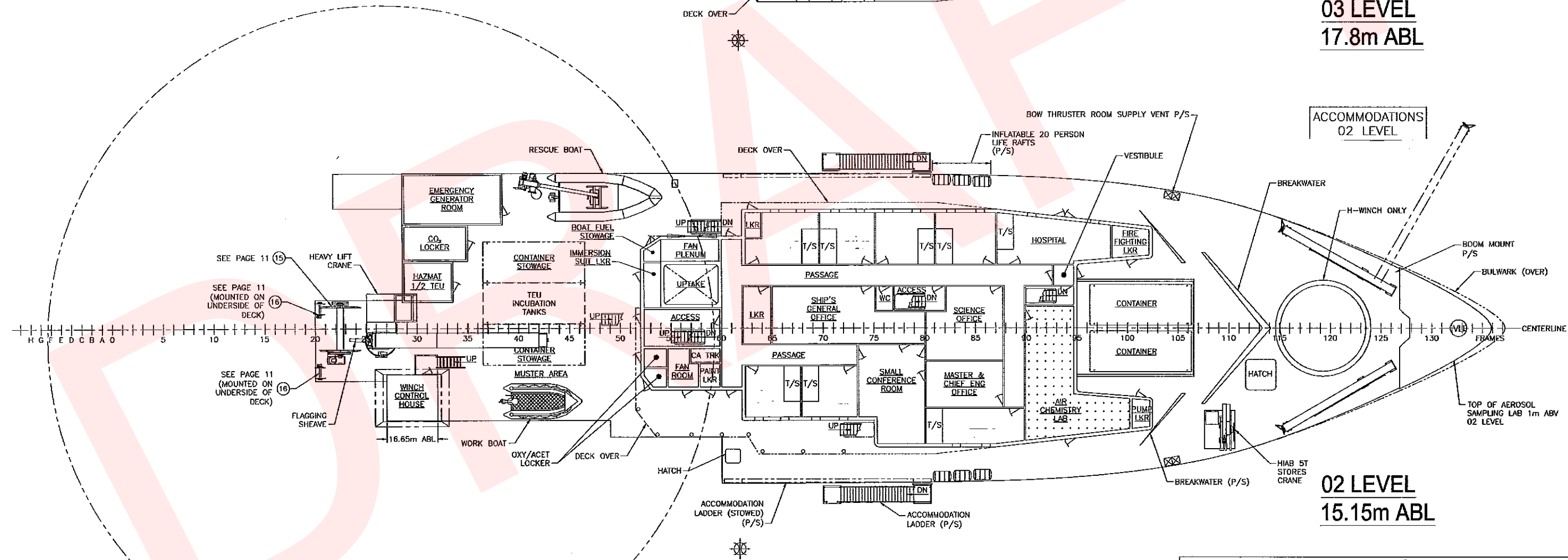


RALion <small>A Robert Allen Ltd. / Alion Science and Technology Joint Venture</small>			
TITLE GENERAL ARRANGEMENTS 05 LEVEL, 04 LEVEL			
SCALE 1:250	DATE NOV 2010	PLOT SIZE ISO A3	SHEET 8 OF 17
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ACCOMMODATIONS
03 LEVEL

03 LEVEL
17.8m ABL



ACCOMMODATIONS
02 LEVEL

02 LEVEL
15.15m ABL

SEE PAGE 11 (MOUNTED ON UNDERSIDE OF DECK)

SEE PAGE 11 (MOUNTED ON UNDERSIDE OF DECK)

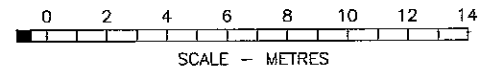
SEE PAGE 11 (MOUNTED ON UNDERSIDE OF DECK)

HEAVY LIFT CRANE

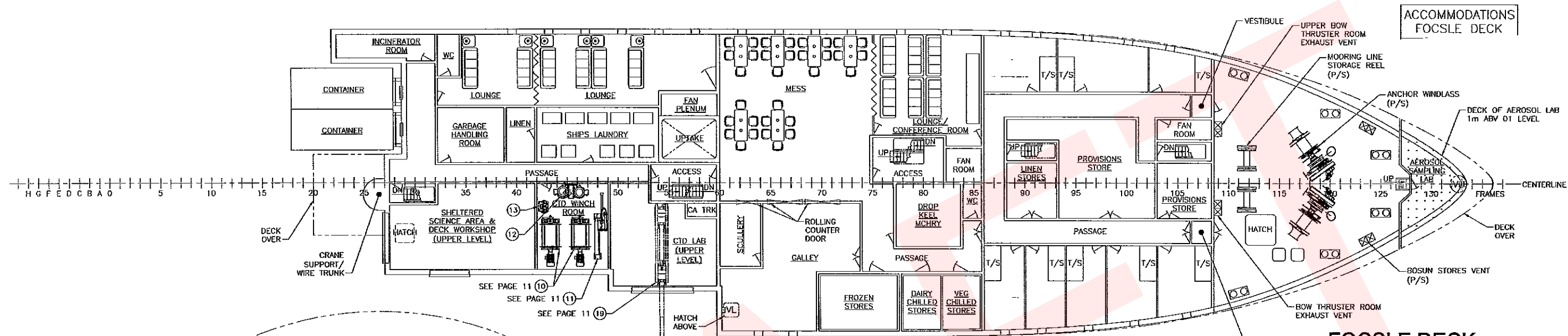
WINCH CONTROL HOUSE

FLAGGING SHEAVE

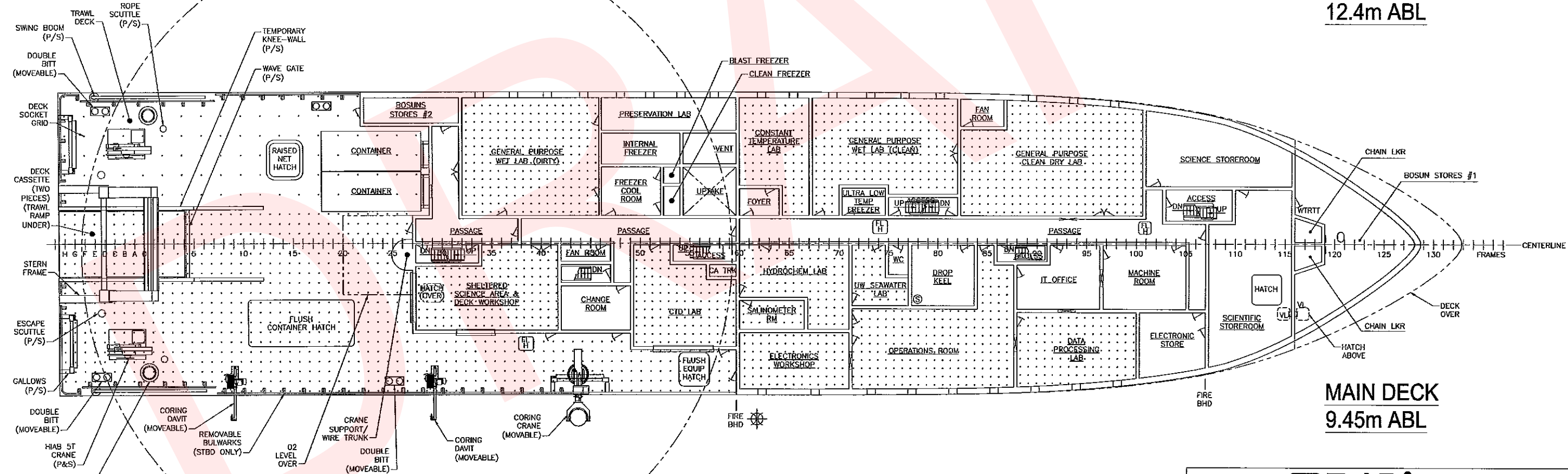
16.65m ABL



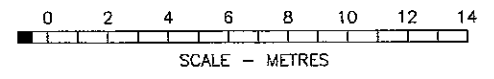
RALion A Robert Allan Ltd. / Allon Science and Technology Joint Venture			
TITLE GENERAL ARRANGEMENTS 03 LEVEL, 02 LEVEL			
SCALE 1:250	DATE NOV 2010	PLOT SIZE ISO A3	SHEET 9 OF 17
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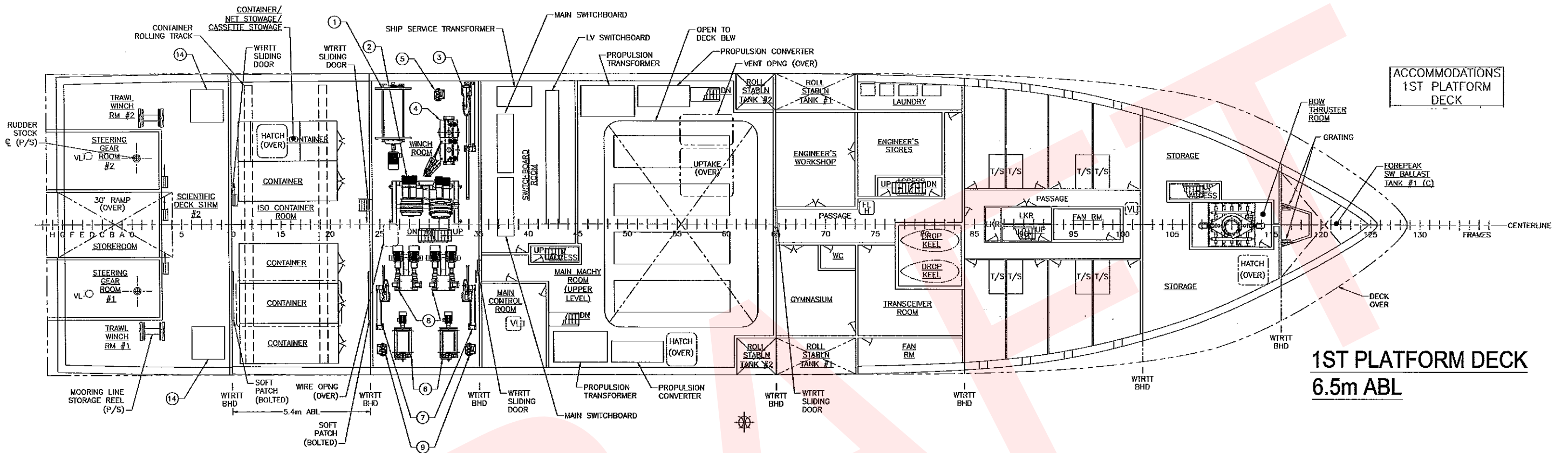
**FOCSLE DECK
(01 LEVEL)
12.4m ABL**



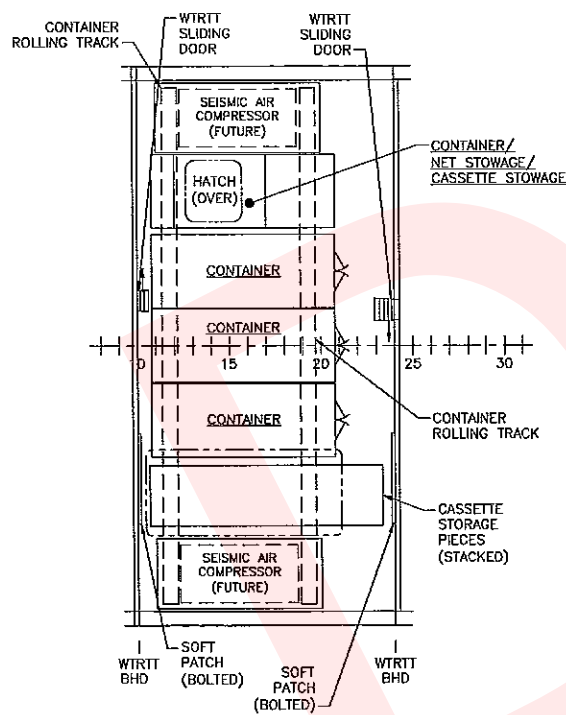
**MAIN DECK
9.45m ABL**



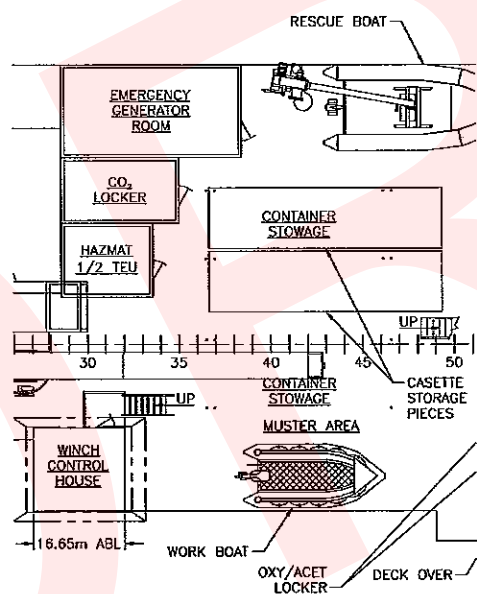
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TITLE GENERAL ARRANGEMENTS FOCSLE DECK (01 LEVEL), MAIN DECK			
SCALE 1:250	DATE NOV 2010	PLOT SIZE ISO A3	SHEET 10 OF 17
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**1ST PLATFORM DECK
6.5m ABL**



**ALTERNATE ISO
CONTAINER RM
ARRANGEMENT**

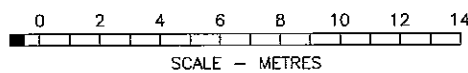


**ALTERNATE O2 LEVEL
CASSETTE STORAGE
ARRANGEMENT**

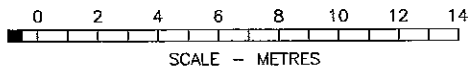
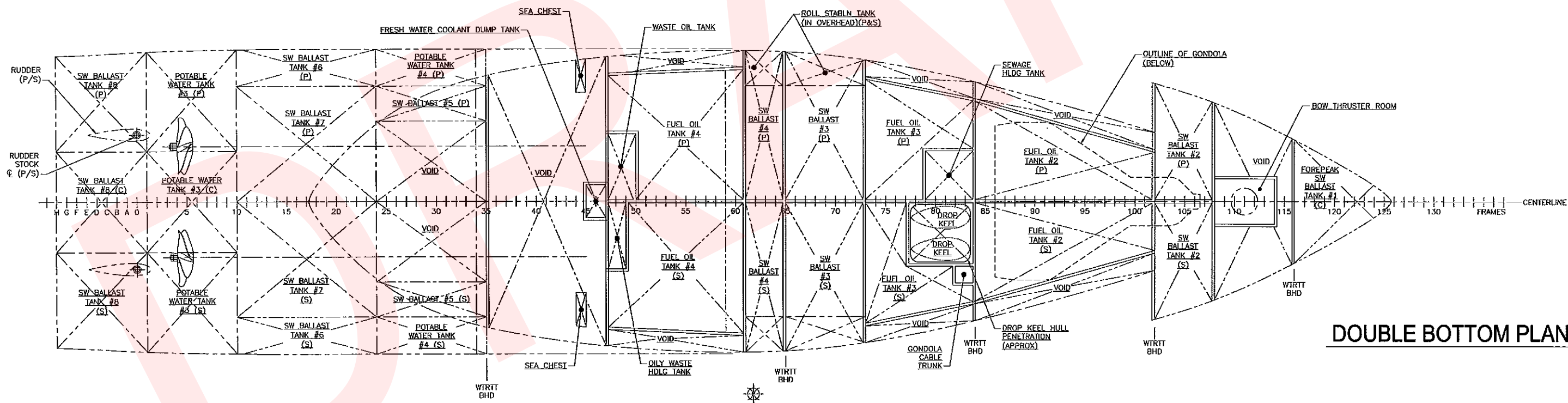
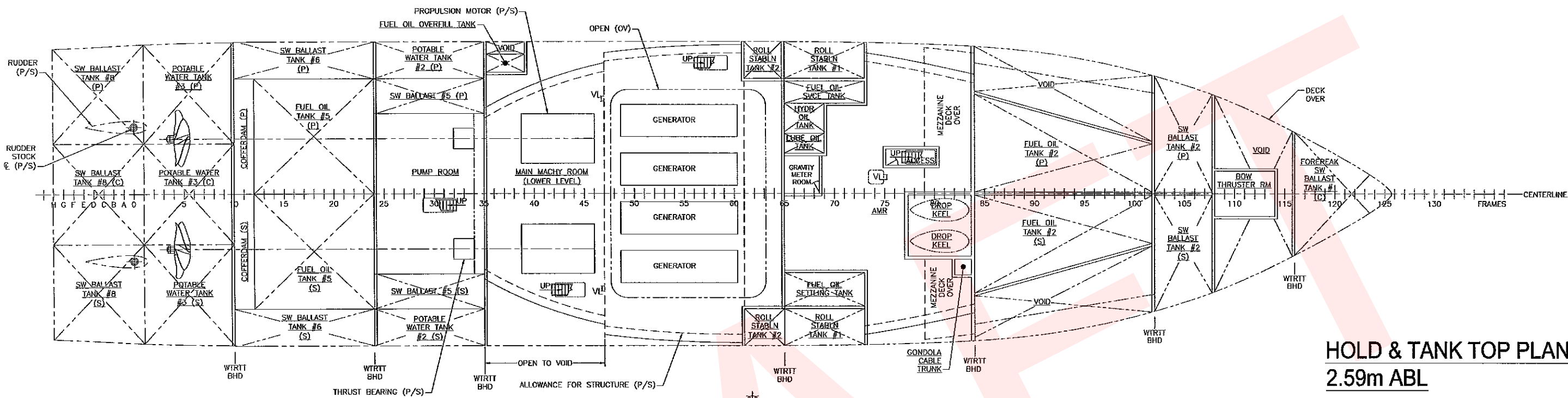
WINCH SYSTEMS	
DESCRIPTION	FIND NUMBER
WINCH SYSTEM I THE FOLLOWING SYSTEMS TO SHARE/USE THE SAME WINCH SYSTEM, USING FIBRE ROPE 1. TOWED SEABED 2. VERTICAL SEDIMENT GRAB 3. SHORT SEDIMENT CORING 4. LONG SEDIMENT CORING	
THE SYSTEM COMPRISES:	
1 OFF STORAGE DRUM	1
1 OFF CICU	2
1 OFF SPOOLING DEVICE	3
1 OFF DAMPING UNIT	4
1 OFF CABLE COUNTER	5
WINCH SYSTEM II 1. TOWED BODY WINCH SYSTEM 2. GENERAL PURPOSE WINCH	
THE SYSTEM COMPRISES:	
2 OFF STORAGE DRUM	6
2 OFF SPOOLING DEVICE	7
2 OFF TRACTION WINCH	8
2 OFF CABLE COUNTER	9

WINCH SYSTEMS	
DESCRIPTION	FIND NUMBER
WINCH SYSTEM III 1. CTD WINCH SYSTEM	
THE SYSTEM COMPRISES:	
2 OFF STORAGE DRUM	10
1 OFF SPOOLING DEVICE	11
1 OFF TRACTION WINCH	12
1 OFF CABLE COUNTER	13
WINCH SYSTEM IV 1. TRAWL WINCH 2. NET DRUM	
THE SYSTEM COMPRISES:	
2 OFF TRAWL WINCH	14
1 OFF NET DRUM	15
WINCH SYSTEM V 1. AUXILIARY WINCH I	
THE SYSTEM COMPRISES:	
2 OFF AUX. WINCH I 101E	16
NOT USED	17

WINCH SYSTEMS	
DESCRIPTION	FIND NUMBER
WINCH SYSTEM VI 1 OFF DRILL RIGS AND VIBROCORE WINCH OVERBOARD SYSTEMS	18
OVERBOARD SYSTEMS 1 OFF CTD BOOM (OVERHEAD CRANE)	19

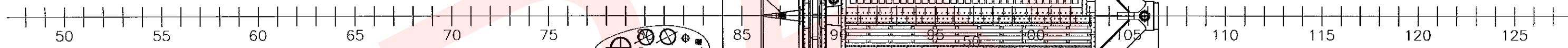
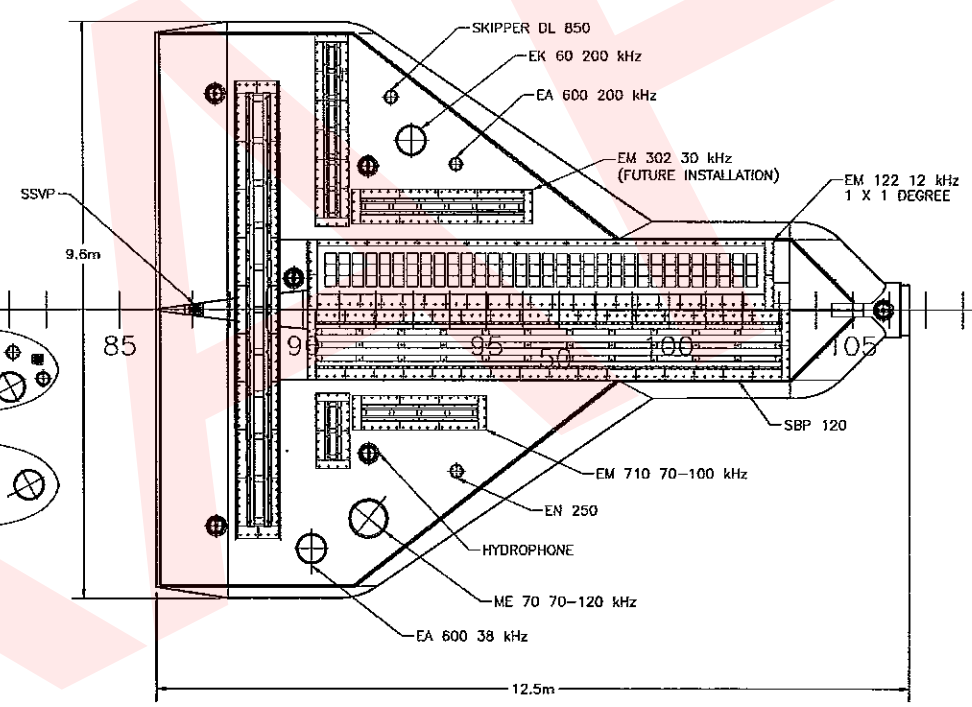
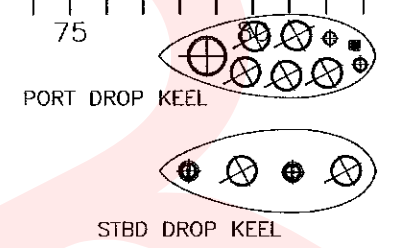
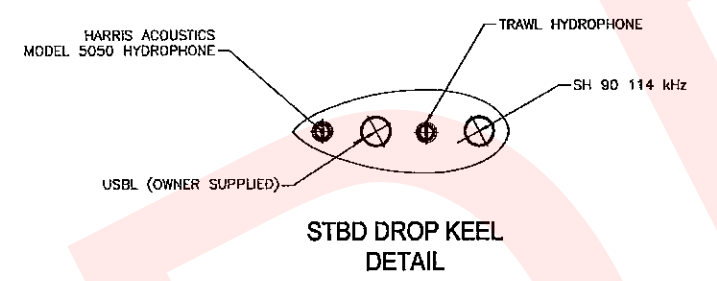
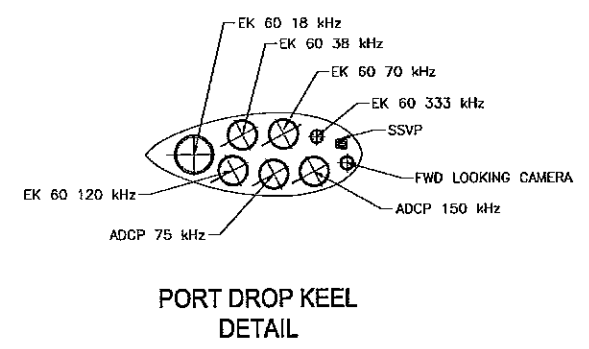


TITLE GENERAL ARRANGEMENTS 1ST PLATFORM DECK			
SCALE 1:250	DATE NOV 2010	PLOT SIZE ISO A3	SHEET 11 OF 17
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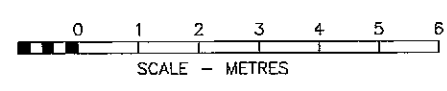
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TITLE			
GENERAL ARRANGEMENTS			
HOLD & TANK TOP PLAN, DOUBLE BOTTOM PLAN			
SCALE	DATE	PLOT SIZE	SHEET
1:250	NOV 2010	ISO A3	12 OF 17
PROJECT No.	DRAWING No.	REV.	
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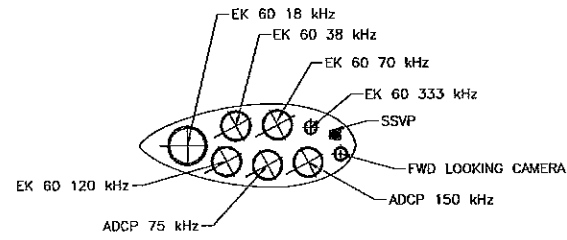


SCIENTIFIC SONAR GONDOLA AND DROP KEEL DETAIL - OPTION 1

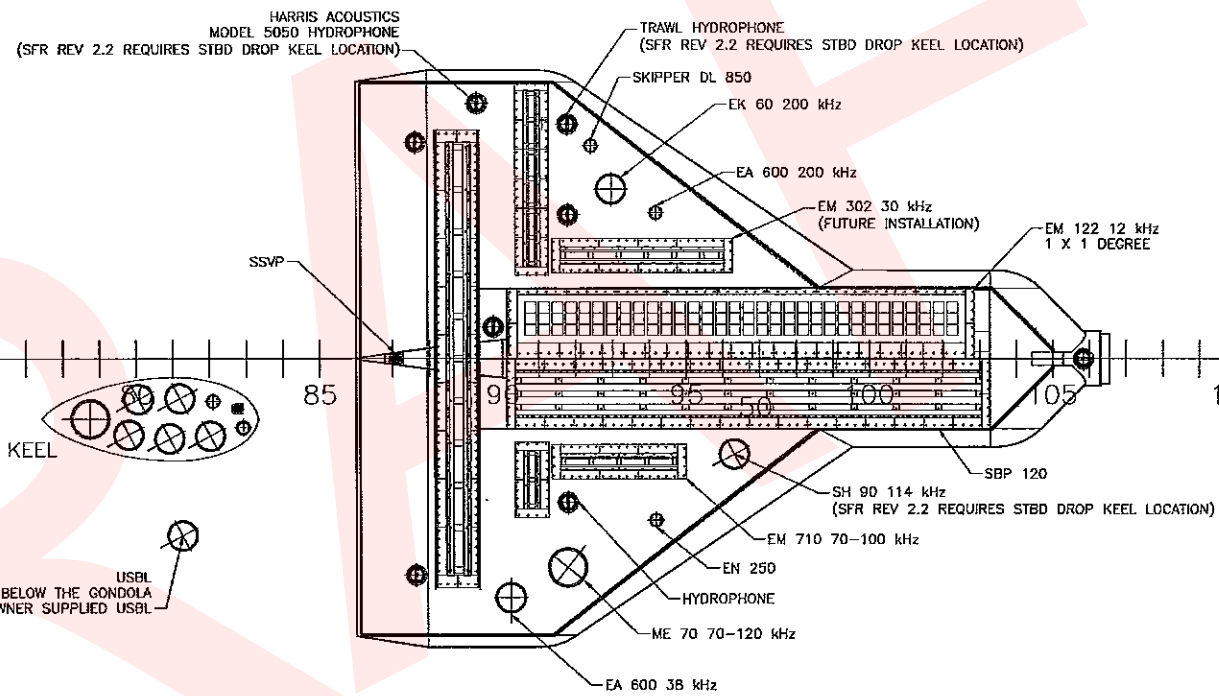
BELOW SHIP BASELINE
EM 122 1 x 1



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TITLE GENERAL ARRANGEMENTS GONDOLA AND DROP KEEL DETAIL - OPTION 1			
SCALE 1:125	DATE NOV 2010	PLOT SIZE ISO A3	SHEET 13 OF 17
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PORT DROP KEEL
DETAIL



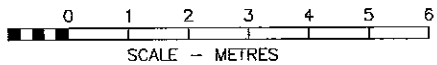
PORT DROP KEEL

USBL
TRUNK AND GANTRY NEEDED FOR LOWERING BELOW THE GONDOLA
TRUNK SIZE TBD BASED ON OWNER SUPPLIED USBL

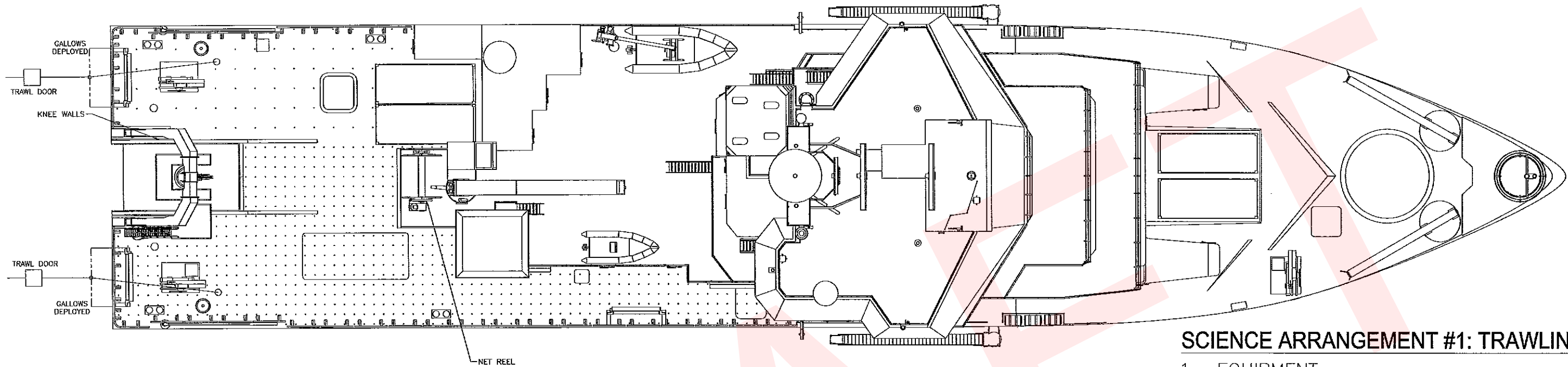


SCIENTIFIC SONAR GONDOLA AND DROP KEEL DETAIL - OPTION 2

BELOW SHIP BASELINE
EM 122 1 x 1

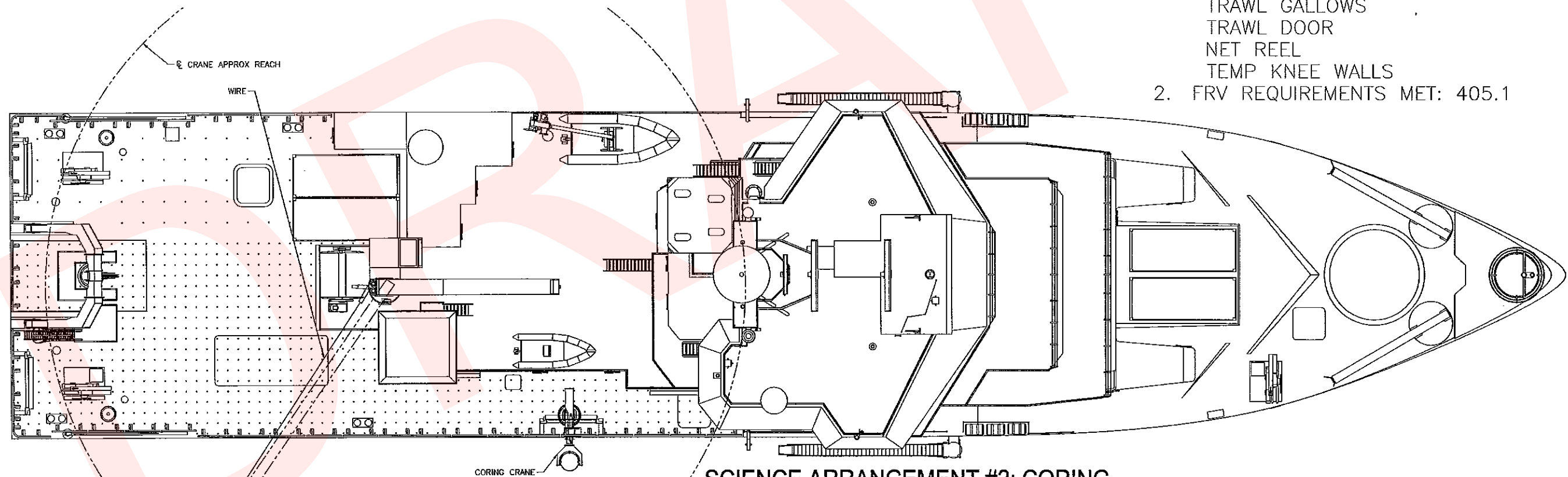


TITLE GENERAL ARRANGEMENTS GONDOLA AND DROP KEEL DETAIL - OPTION 2			
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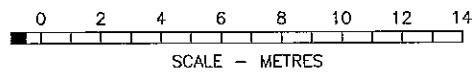
SCIENCE ARRANGEMENT #1: TRAWLING

1. EQUIPMENT
 - TRAWL WINCHES (BELOW MD)
 - TRAWL GALLOWS
 - TRAWL DOOR
 - NET REEL
 - TEMP KNEE WALLS
2. FRV REQUIREMENTS MET: 405.1



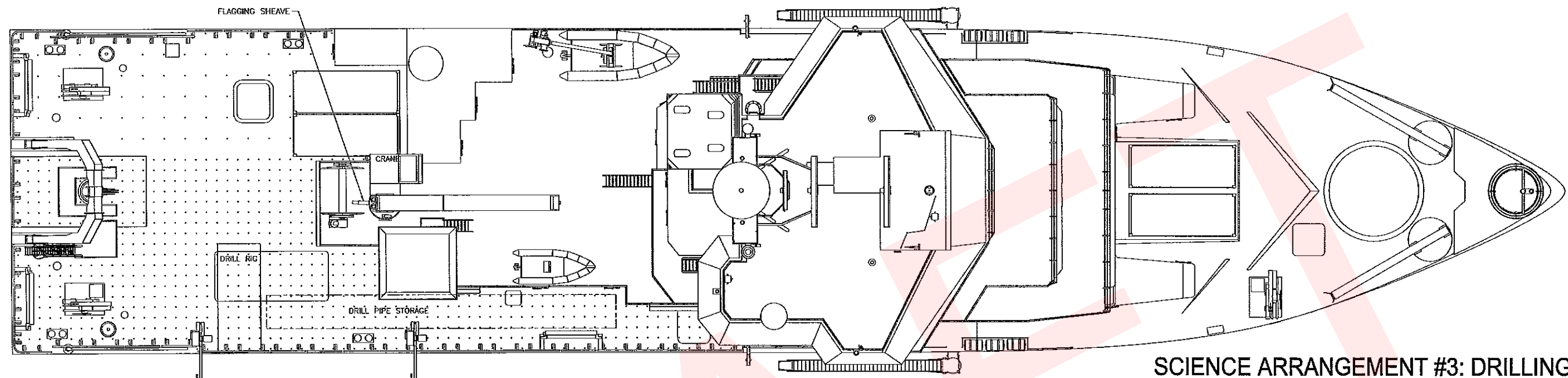
SCIENCE ARRANGEMENT #2: CORING

1. EQUIPMENT
 - TRACTION WINCH TO FLAGGING SHEAVE
 - CRANE
2. FRV REQUIREMENTS MET: 405.4; 405.5



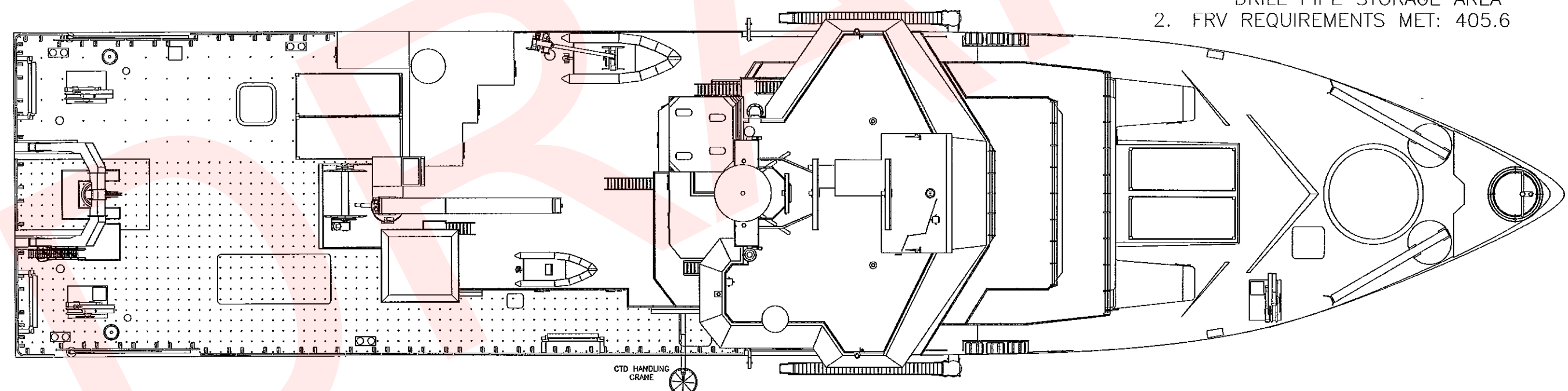
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TITLE			
GENERAL ARRANGEMENTS SCIENCE ARRANGEMENT #1 & #2			
SCALE	DATE	PLOT SIZE	SHEET
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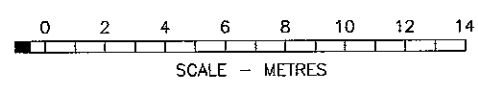
SCIENCE ARRANGEMENT #3: DRILLING

1. EQUIPMENT
 - TEMPORARY DRILL RIG CONTAINER BOLTED TO AFT DECK ALIGNED WITH DECK EDGE
 - DRILL PIPE STORAGE AREA
2. FRV REQUIREMENTS MET: 405.6

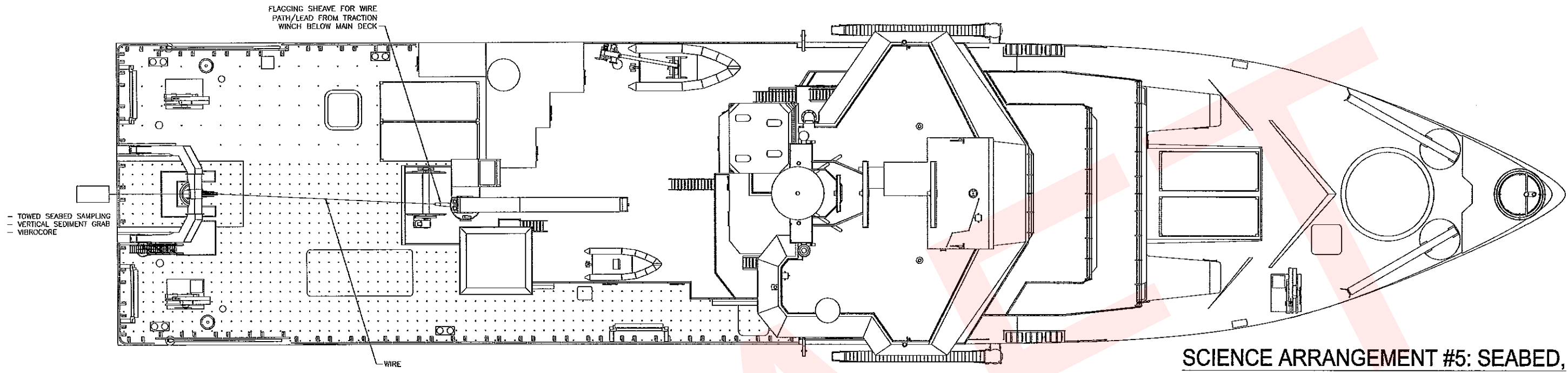


SCIENCE ARRANGEMENT #4: CTD

1. EQUIPMENT
 - CTD WINCH
 - CTD HANDLING CRANE
 - CTD ROSETTE
2. FRV REQUIREMENTS MET: 405.9

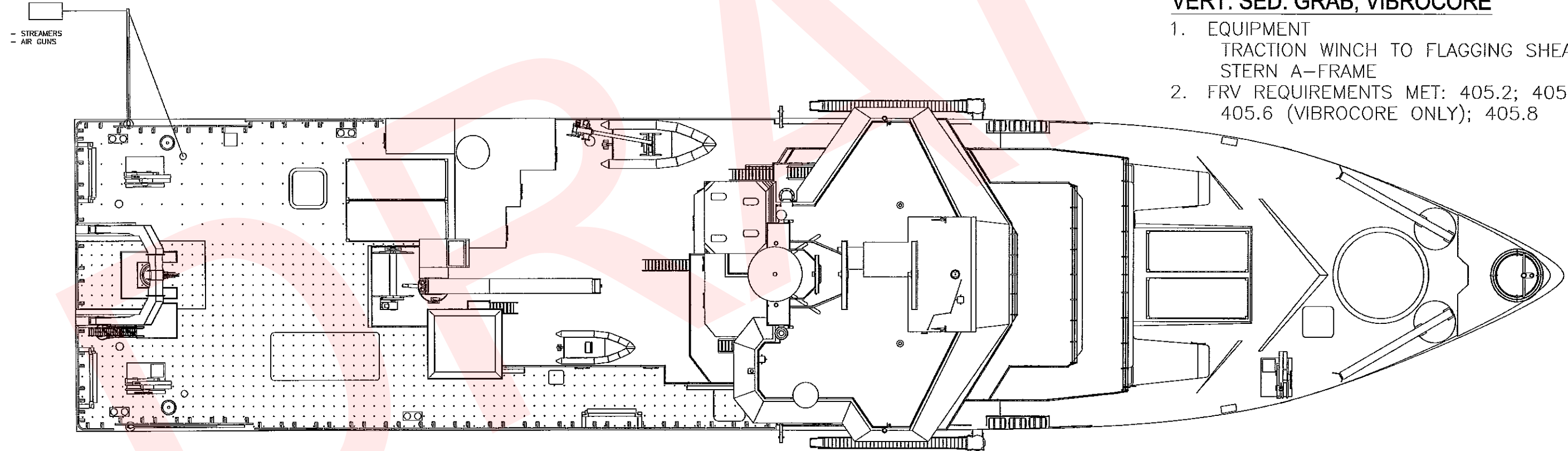


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TITLE GENERAL ARRANGEMENTS SCIENCE ARRANGEMENT #3 & #4			
SCALE 1:250	DATE NOV 2010	PLOT SIZE ISO A3	SHEET 16 OF 17
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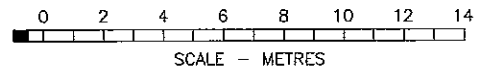
SCIENCE ARRANGEMENT #5: SEABED, VERT. SED. GRAB, VIBROCORE

1. EQUIPMENT
TRACTION WINCH TO FLAGGING SHEAVE
STERN A-FRAME
2. FRV REQUIREMENTS MET: 405.2; 405.3; 405.6 (VIBROCORE ONLY); 405.8



SCIENCE ARRANGEMENT #6: SEISMIC

1. EQUIPMENT
TRAWL WINCH TO PORT OR STBD
2. FRV REQUIREMENTS MET: 420.1



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TITLE GENERAL ARRANGEMENTS SCIENCE ARRANGEMENT #5 & #6			
SCALE 1:250	DATE NOV 2010	PLOT SIZE ISO A3	SHEET 17 OF 17
PROJECT No. 209-225	DRAWING No. 7917-001-602-1		REV. 4