

BOOKLET OF GENERAL PLANS

▲ U.S.S. CONSTITUTION CLASS ▲

THE FOLLOWING SHIPS OF THIS CLASS WERE CONSTRUCTED UNDER AUTHORIZATION OF THE ORIGINAL ARTICLES OF FEDERATION OF THE UNITED FEDERATION OF PLANETS:

- | | |
|------------------------------|--------------------------|
| CONSTELLATION _____ NCC-1017 | INTREPID _____ NCC-1708 |
| CONSTITUTION* _____ NCC-1700 | KONGO _____ NCC-1710 |
| ENTERPRISE _____ NCC-1701 | LEXINGTON _____ NCC-1703 |
| EXCALIBUR _____ NCC-1705 | POTEMPKIN _____ NCC-1711 |
| EXETER _____ NCC-1706 | REPUBLIC _____ NCC-1371 |
| FARRAGUT _____ NCC-1702 | VALIANT _____ NCC-1709 |
| HOOD _____ NCC-1707 | YORKTOWN _____ NCC-1704 |

* CLASS SHIP

FEDERATION CLASSIFIED
 THESE BOOKLETS OF GENERAL PLANS ARE FOR THE SPECIFIC USE OF ACADEMY CADETS TO FAMILIARIZE THEMSELVES WITH THE GENERAL ARRANGEMENT OF STARSHIPS. UNDER THE LAWS OF THE UNITED FEDERATION OF PLANETS AND ITS MEMBER PLANETS, UNAUTHORIZED USE, OR REPRODUCTION IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF STAR FLEET OR ITS PLANETARY AGENTS IS PROHIBITED.

SECOND EDITION

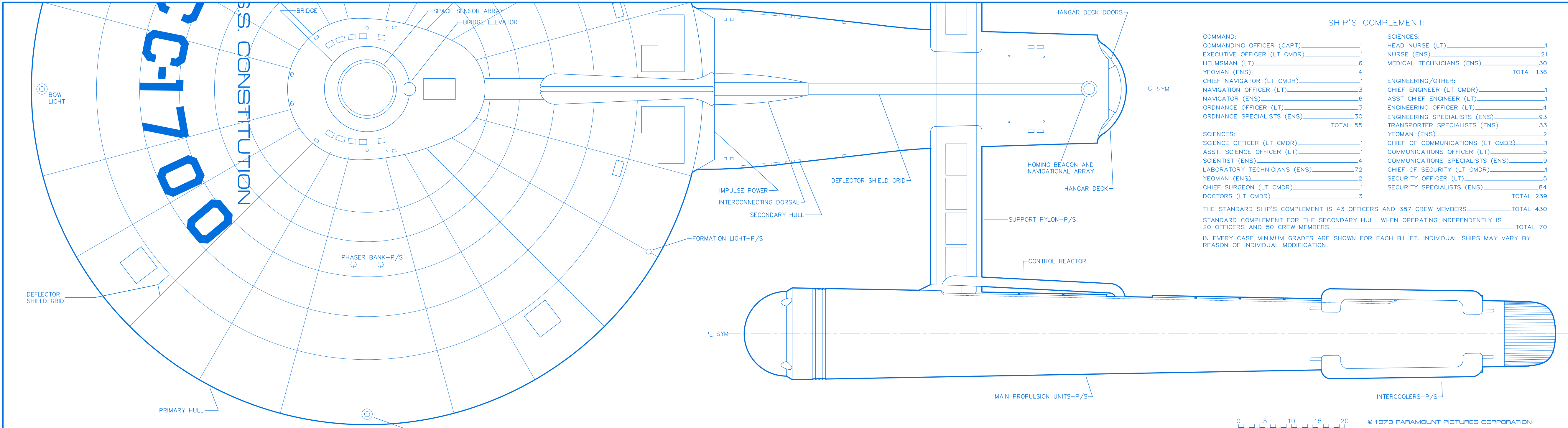
AUTHENTICATED STARDATE:	3113	RELEASE DATE:	7404.12 7411.12
MODEL:	MK-IX	TYPE:	HEAVY CRUISER
STARSHIP CLASS:	I		

CONSTRUCTED BY: STAR FLEET DIVISION
 SAN FRANCISCO YARDS
 UNITED NATIONS - EARTH - SOLAR SYSTEM

ALL DIMENSIONS IN METRIC SYSTEM OF UNITED NATIONS-EARTH			
DRAWN BY:	T300H	APP'D:	7312.31
FRANZ JOSEPH DESIGNS		GENE RODDENBERRY	
PRINTED AND DISTRIBUTED BY		CHIEF OF DESIGN	

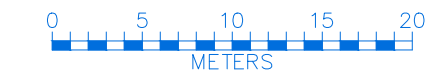
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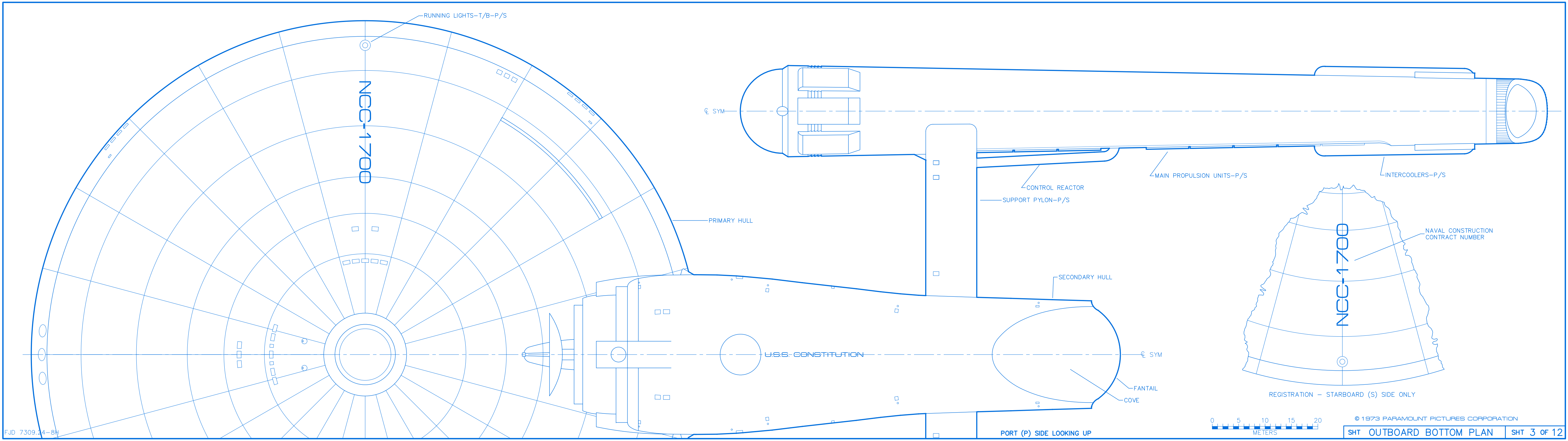


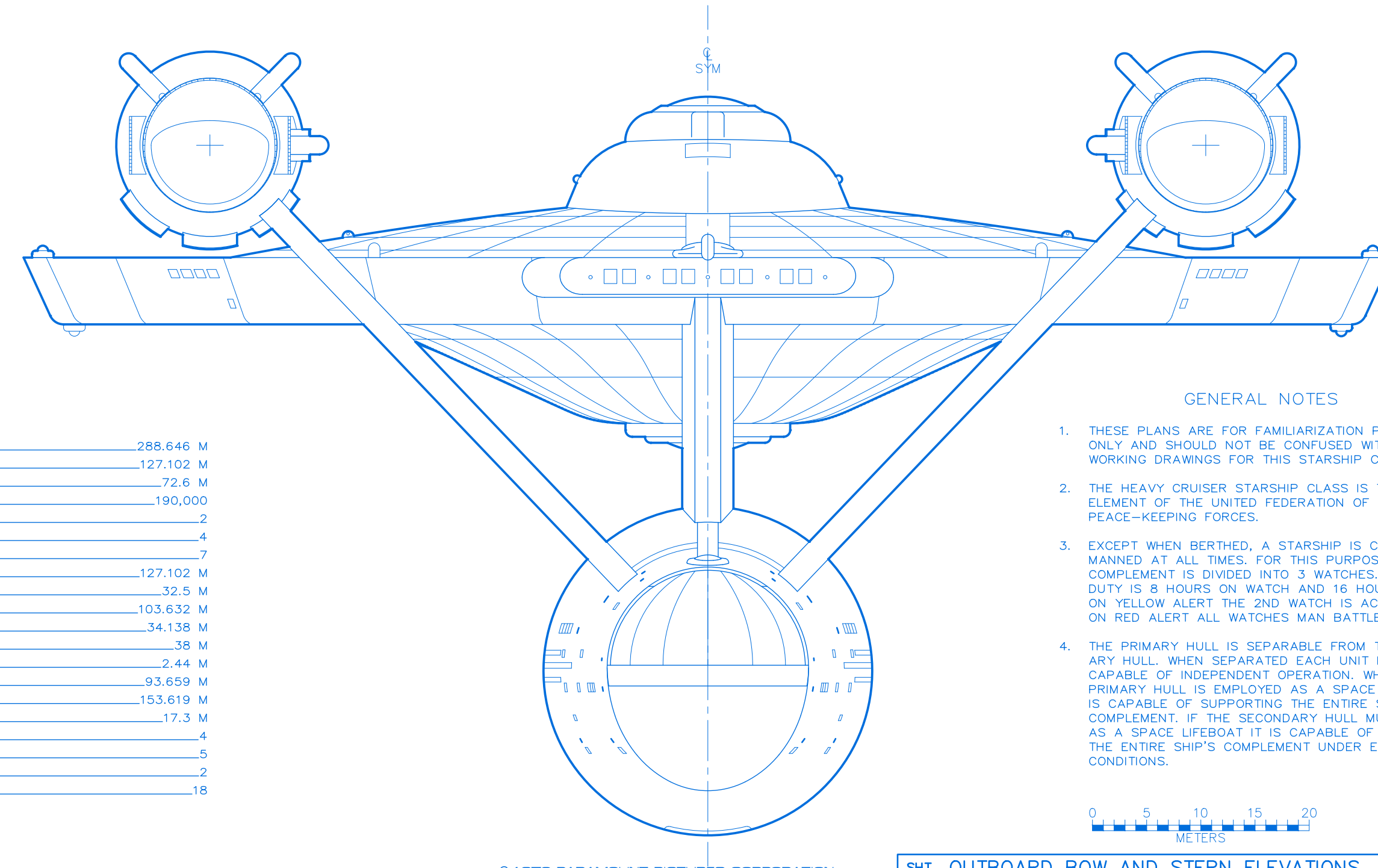
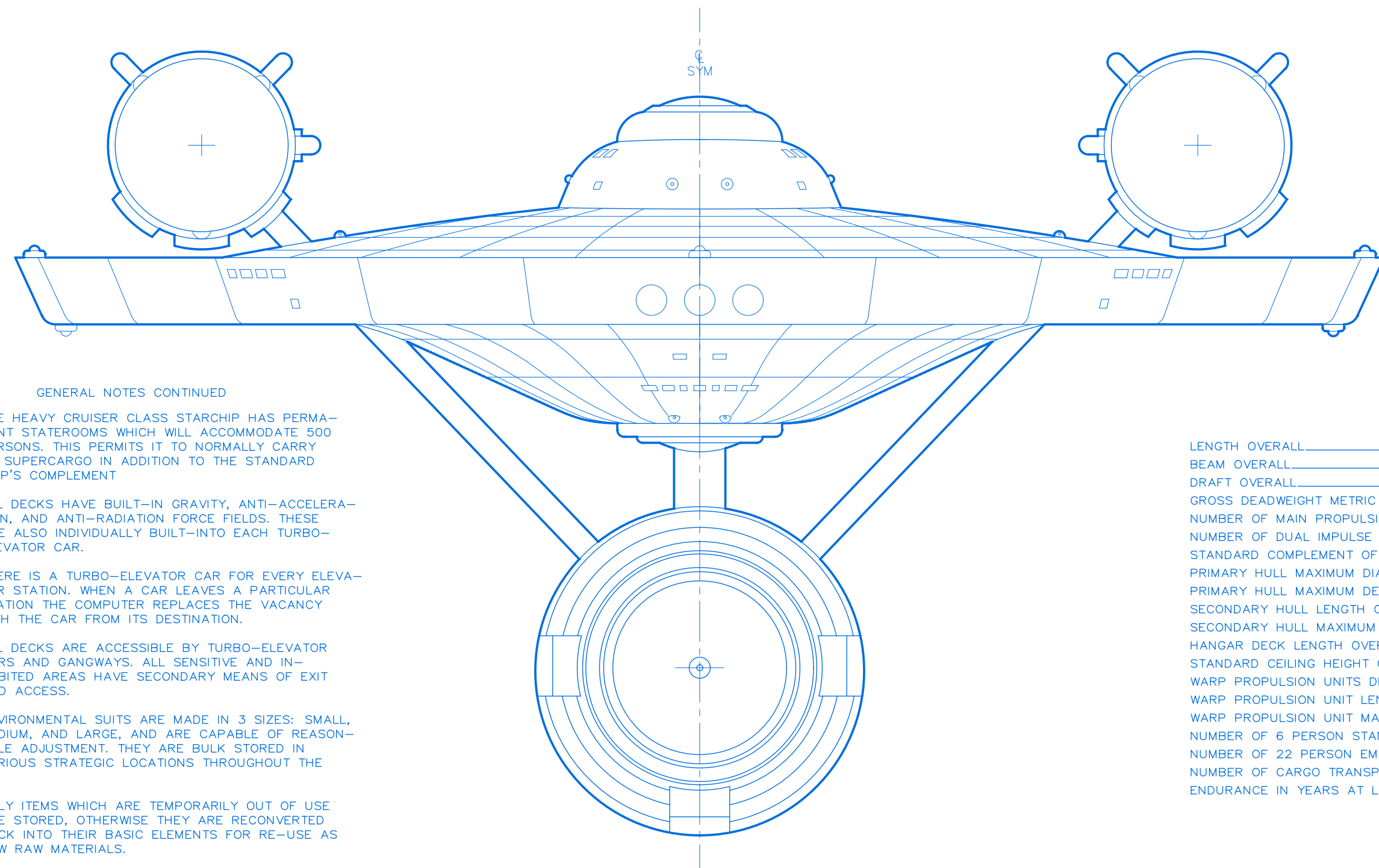
SHIP'S COMPLEMENT:

COMMAND:		SCIENCES:	
COMMANDING OFFICER (CAPT)	1	HEAD NURSE (LT)	1
EXECUTIVE OFFICER (LT CMDR)	1	NURSE (ENS)	21
HELMSMAN (LT)	6	MEDICAL TECHNICIANS (ENS)	30
YEOMAN (ENS)	4		TOTAL 136
CHIEF NAVIGATOR (LT CMDR)	1	ENGINEERING/OTHER:	
NAVIGATION OFFICER (LT)	3	CHIEF ENGINEER (LT CMDR)	1
NAVIGATOR (ENS)	6	ASST CHIEF ENGINEER (LT)	1
ORDNANCE OFFICER (LT)	3	ENGINEERING OFFICER (LT)	4
ORDNANCE SPECIALISTS (ENS)	30	ENGINEERING SPECIALISTS (ENS)	93
	TOTAL 55	TRANSPORTER SPECIALISTS (ENS)	33
		YEOMAN (ENS)	2
SCIENCES:		CHIEF OF COMMUNICATIONS (LT CMDR)	1
SCIENCE OFFICER (LT CMDR)	1	COMMUNICATIONS OFFICER (LT)	5
ASST. SCIENCE OFFICER (LT)	1	COMMUNICATIONS SPECIALISTS (ENS)	9
SCIENTIST (ENS)	4	CHIEF OF SECURITY (LT CMDR)	1
LABORATORY TECHNICIANS (ENS)	72	SECURITY OFFICER (LT)	5
YEOMAN (ENS)	2	SECURITY SPECIALISTS (ENS)	84
CHIEF SURGEON (LT CMDR)	1		TOTAL 239
DOCTORS (LT CMDR)	3		
THE STANDARD SHIP'S COMPLEMENT IS 43 OFFICERS AND 387 CREW MEMBERS. TOTAL 430			
STANDARD COMPLEMENT FOR THE SECONDARY HULL WHEN OPERATING INDEPENDENTLY IS 20 OFFICERS AND 50 CREW MEMBERS. TOTAL 70			
IN EVERY CASE MINIMUM GRADES ARE SHOWN FOR EACH BILLET. INDIVIDUAL SHIPS MAY VARY BY REASON OF INDIVIDUAL MODIFICATION.			



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GENERAL NOTES CONTINUED

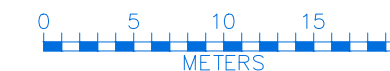
5. THE HEAVY CRUISER CLASS STARSHIP HAS PERMANENT STATEROOMS WHICH WILL ACCOMMODATE 500 PERSONS. THIS PERMITS IT TO NORMALLY CARRY 70 SUPERCARGO IN ADDITION TO THE STANDARD SHIP'S COMPLEMENT
6. ALL DECKS HAVE BUILT-IN GRAVITY, ANTI-ACCELERATION, AND ANTI-RADIATION FORCE FIELDS. THESE ARE ALSO INDIVIDUALLY BUILT-INTO EACH TURBO-ELEVATOR CAR.
7. THERE IS A TURBO-ELEVATOR CAR FOR EVERY ELEVATOR STATION. WHEN A CAR LEAVES A PARTICULAR STATION THE COMPUTER REPLACES THE VACANCY WITH THE CAR FROM ITS DESTINATION.
8. ALL DECKS ARE ACCESSIBLE BY TURBO-ELEVATOR CARS AND GANGWAYS. ALL SENSITIVE AND INHABITED AREAS HAVE SECONDARY MEANS OF EXIT AND ACCESS.
9. ENVIRONMENTAL SUITS ARE MADE IN 3 SIZES: SMALL, MEDIUM, AND LARGE, AND ARE CAPABLE OF REASONABLE ADJUSTMENT. THEY ARE BULK STORED IN VARIOUS STRATEGIC LOCATIONS THROUGHOUT THE SHIP.
10. ONLY ITEMS WHICH ARE TEMPORARILY OUT OF USE ARE STORED, OTHERWISE THEY ARE RECONVERTED BACK INTO THEIR BASIC ELEMENTS FOR RE-USE AS NEW RAW MATERIALS.

PARTICULARS

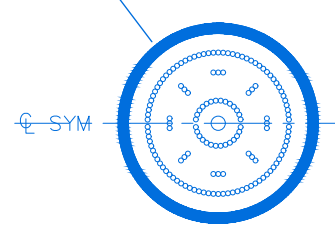
LENGTH OVERALL.....	288.646 M
BEAM OVERALL.....	127.102 M
DRAFT OVERALL.....	72.6 M
GROSS DEADWEIGHT METRIC TONNAGE.....	190,000
NUMBER OF MAIN PROPULSION UNITS.....	2
NUMBER OF DUAL IMPULSE POWER UNITS.....	4
STANDARD COMPLEMENT OF 7 MAN SHUTTLECRAFT.....	7
PRIMARY HULL MAXIMUM DIAMETER.....	127.102 M
PRIMARY HULL MAXIMUM DEPTH.....	32.5 M
SECONDARY HULL LENGTH OVERALL.....	103.632 M
SECONDARY HULL MAXIMUM DIAMETER.....	34.138 M
HANGAR DECK LENGTH OVERALL.....	38 M
STANDARD CEILING HEIGHT OVER DECK.....	2.44 M
WARP PROPULSION UNITS DISTANCE BETWEEN C'S.....	93.659 M
WARP PROPULSION UNIT LENGTH OVERALL.....	153.619 M
WARP PROPULSION UNIT MAXIMUM DIAMETER.....	17.3 M
NUMBER OF 6 PERSON STANDARD TRANSPORTERS.....	4
NUMBER OF 22 PERSON EMERGENCY TRANSPORTERS.....	5
NUMBER OF CARGO TRANSPORTERS.....	2
ENDURANCE IN YEARS AT LIGHT-YEAR VELOCITY.....	18

GENERAL NOTES

1. THESE PLANS ARE FOR FAMILIARIZATION PURPOSES ONLY AND SHOULD NOT BE CONFUSED WITH DETAIL WORKING DRAWINGS FOR THIS STARSHIP CLASS.
2. THE HEAVY CRUISER STARSHIP CLASS IS THE MAIN ELEMENT OF THE UNITED FEDERATION OF PLANETS PEACE-KEEPING FORCES.
3. EXCEPT WHEN BERTHED, A STARSHIP IS COMPLETELY MANNED AT ALL TIMES. FOR THIS PURPOSE THE SHIP'S COMPLEMENT IS DIVIDED INTO 3 WATCHES. NORMAL DUTY IS 8 HOURS ON WATCH AND 16 HOURS OFF DUTY. ON YELLOW ALERT THE 2ND WATCH IS ACTIVATED, AND ON RED ALERT ALL WATCHES MAN BATTLE STATIONS.
4. THE PRIMARY HULL IS SEPARABLE FROM THE SECONDARY HULL. WHEN SEPARATED EACH UNIT IS FULLY CAPABLE OF INDEPENDENT OPERATION. WHEN THE PRIMARY HULL IS EMPLOYED AS A SPACE LIFEBOAT IT IS CAPABLE OF SUPPORTING THE ENTIRE SHIP'S COMPLEMENT. IF THE SECONDARY HULL MUST BE USED AS A SPACE LIFEBOAT IT IS CAPABLE OF SUPPORTING THE ENTIRE SHIP'S COMPLEMENT UNDER EMERGENCY CONDITIONS.

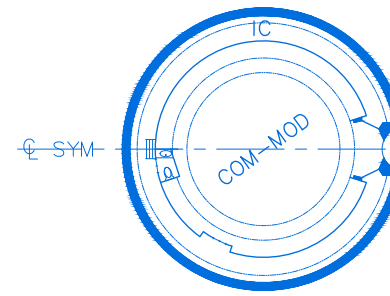


EXTERNAL SHELL AT PLATFORM LEVEL

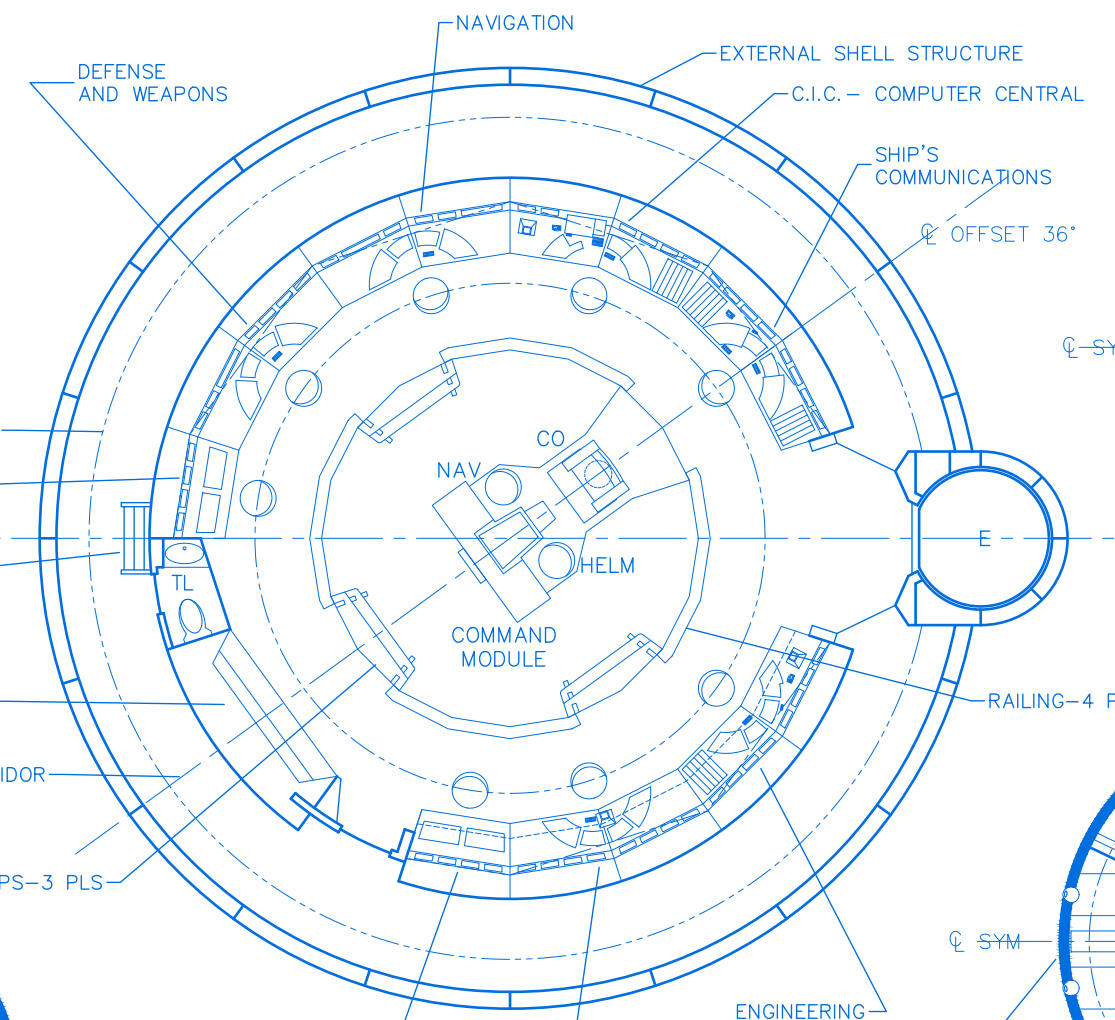


0. UPPER SENSOR PLATFORM

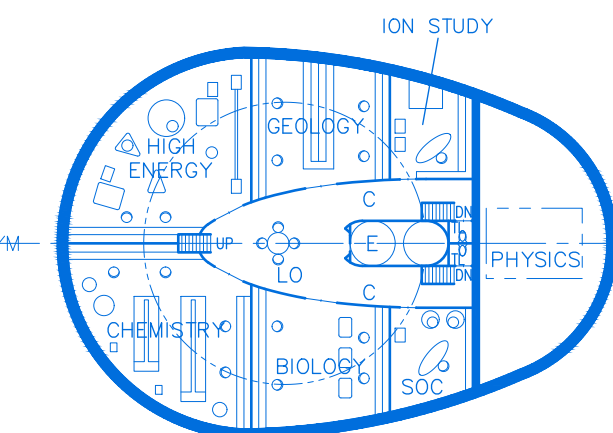
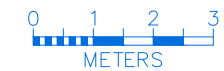
1.90M HEADROOM
DEFENSE SUBSYSTEMS
MONITOR
COMMAND INTELLIGENCE
PRIMARY DISPLAY
SERVICE CORRIDOR
STEPS-3 PLS



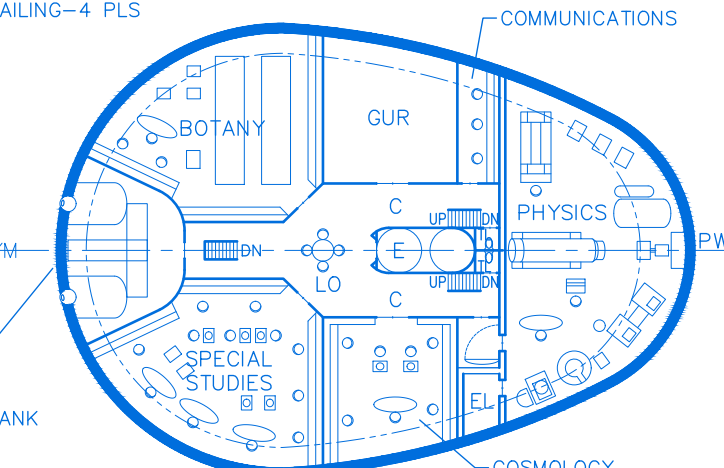
**DECK 1. BRIDGE
SEE DETAIL**



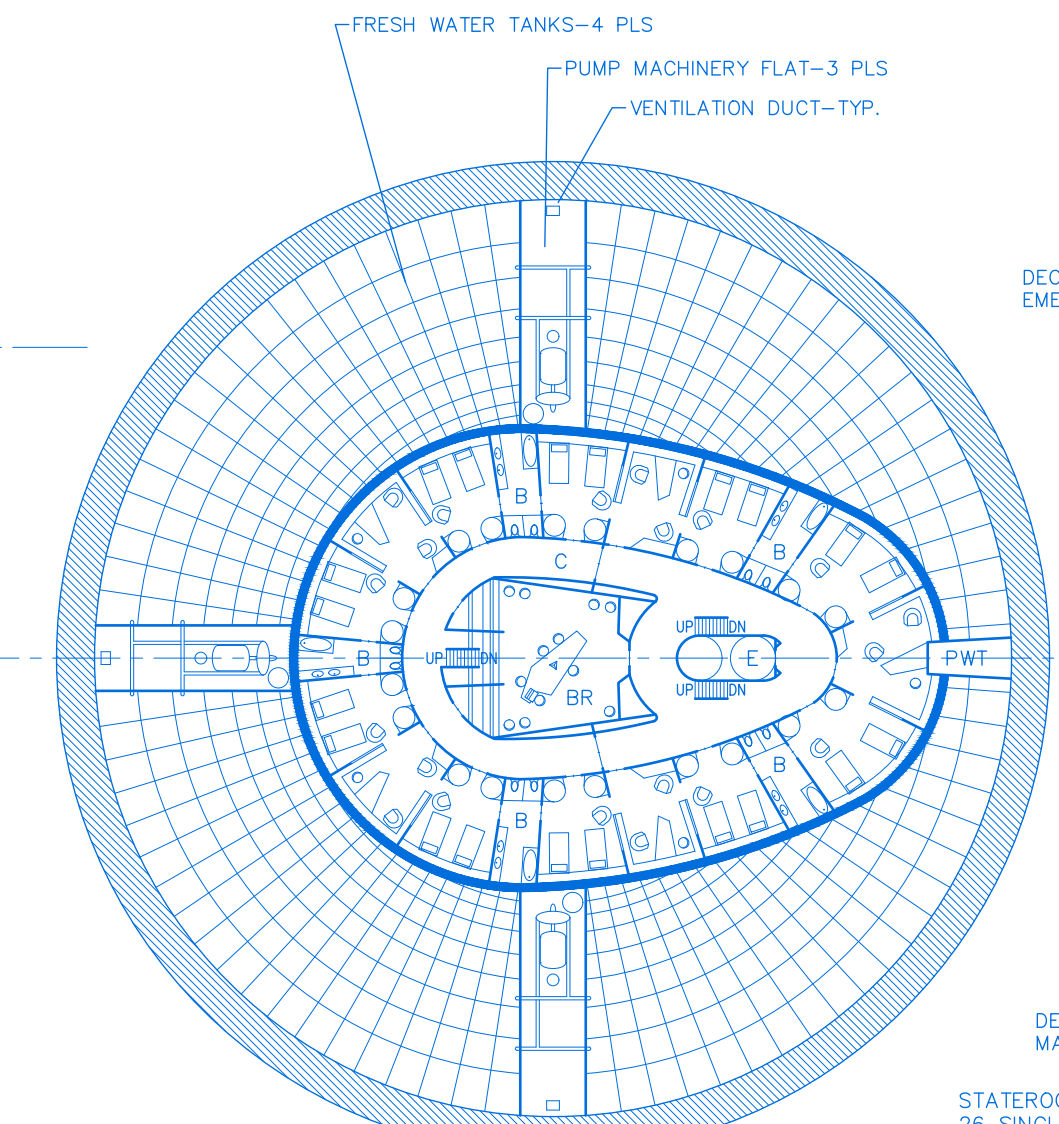
3.3xx ENLARGED BRIDGE DETAIL



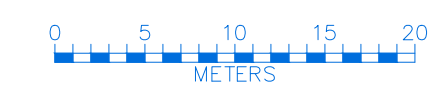
DECK 2. SCIENCE LABORATORIES



DECK 3. SCIENCE LABORATORIES



DECK 4. JUNIOR OFFICERS QUARTERS



DECK'S 4 THRU 11
EMERG. BAT. RM.

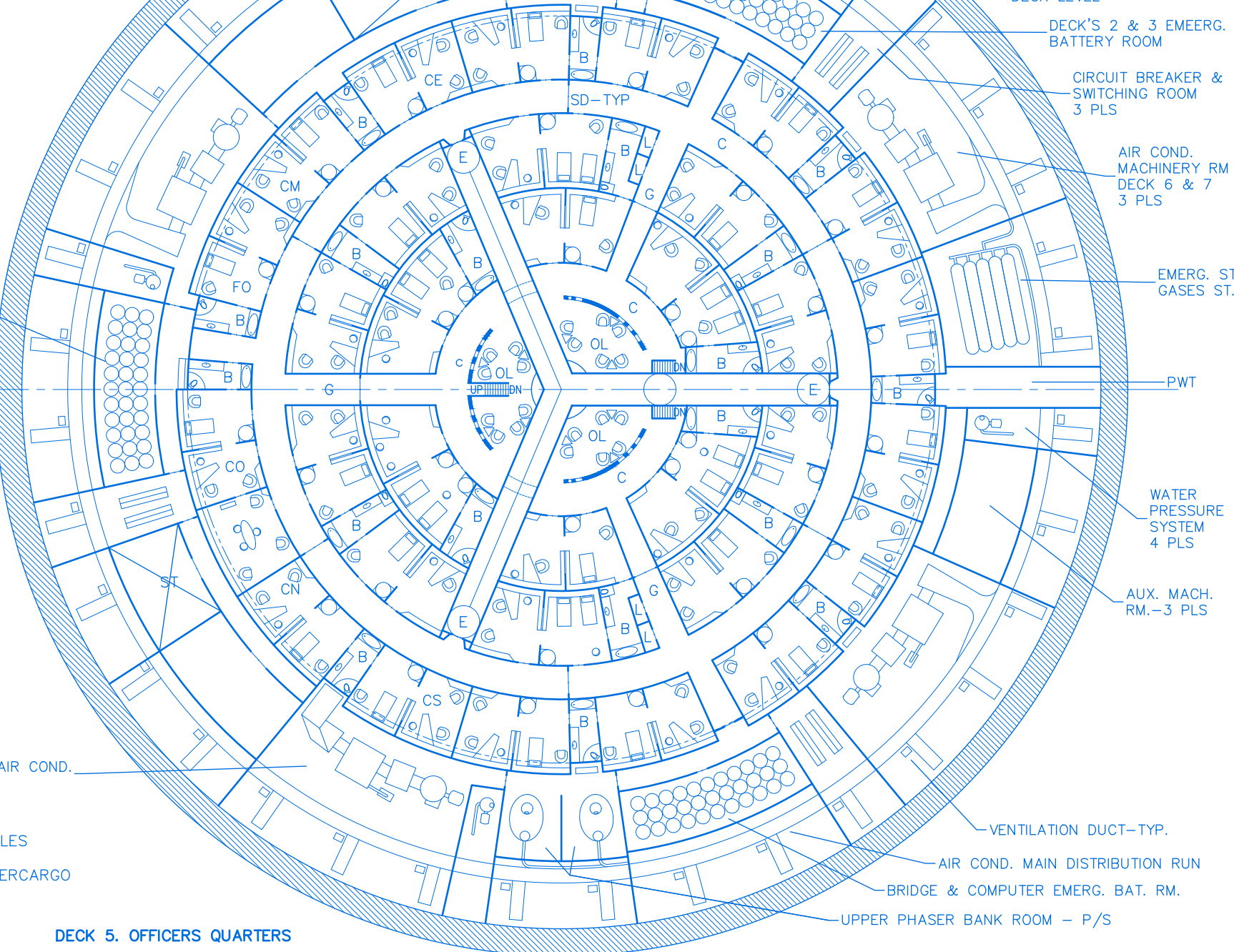
DECK'S 0 THU 5 AIR COND.
MACHINERY ROOM

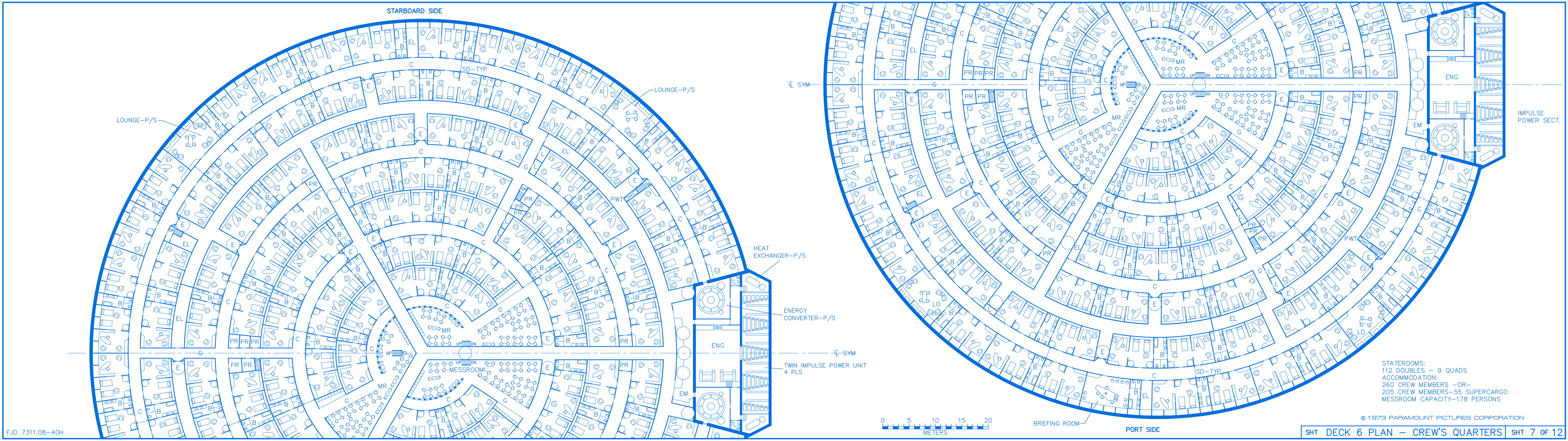
DECK 5. OFFICERS QUARTERS

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STATEROOMS:
26 SINGLES - 16 DOUBLES
ACCOMMODATION:
43 OFFICERS - 15 SUPERCARGO

EXTERNAL SHELL AT
DECK LEVEL





STATEROOMS:
 112 DOUBLES - 9 QUADS
 ACCOMMODATION:
 260 CREW MEMBERS -OR-
 205 CREW MEMBERS-55 SUPERCARGO
 MESSROOM CAPACITY-178 PERSONS

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STARBOARD SIDE

PORT SIDE

SEARCH SENSORS AND DEFLECTORS
☉ SYM

SUMP TANK-P/S

☉ SYM

TWIN IMPULSE POWER UNIT - 4 PLS
FIRING ORDER: 1-8-4-3-6-5-7-2

ENG. MAINTENANCE SHOPS

REMOTE SCANNERS
MONITORING ROOM

TOOL CRIB AND
PARTS SHOP

TERTIARY
STANDARDS ROOM
PRECISION
INSTRUMENT SHOP

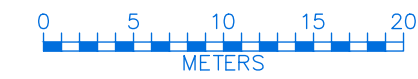
CHIEF ENGINEER'S OFFICE
SMALL PARTS SHOP

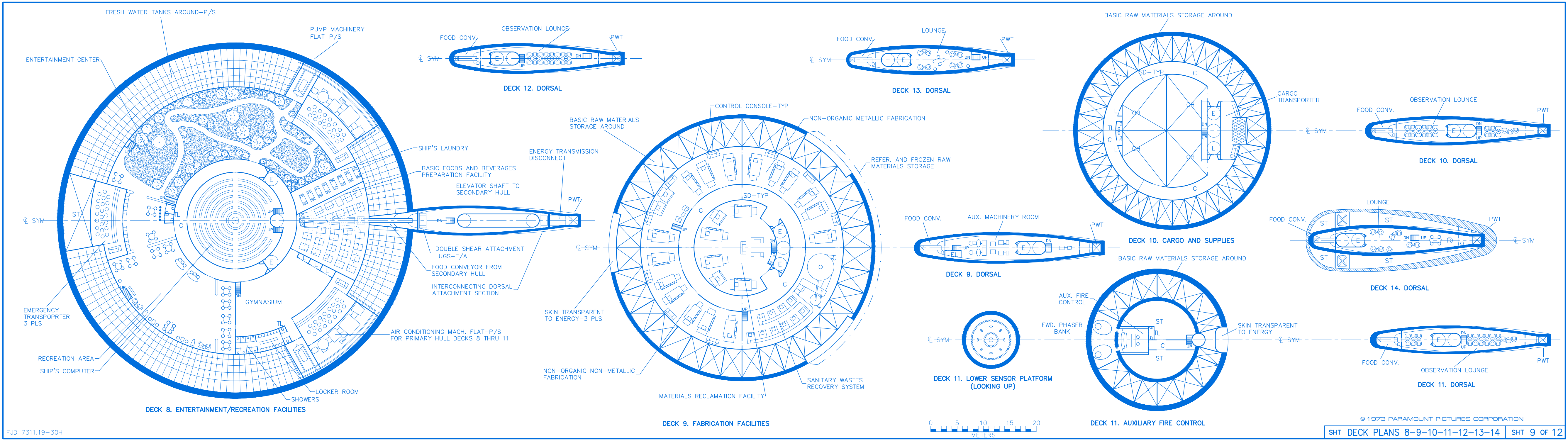
STATEROOMS:
54 DOUBLES - 1 QUAD
ACCOMMODATION:
112 CREW MEMBERS
MESSROOM CAPACITY-44 PERSONS

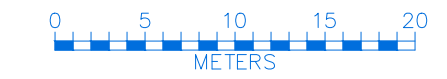
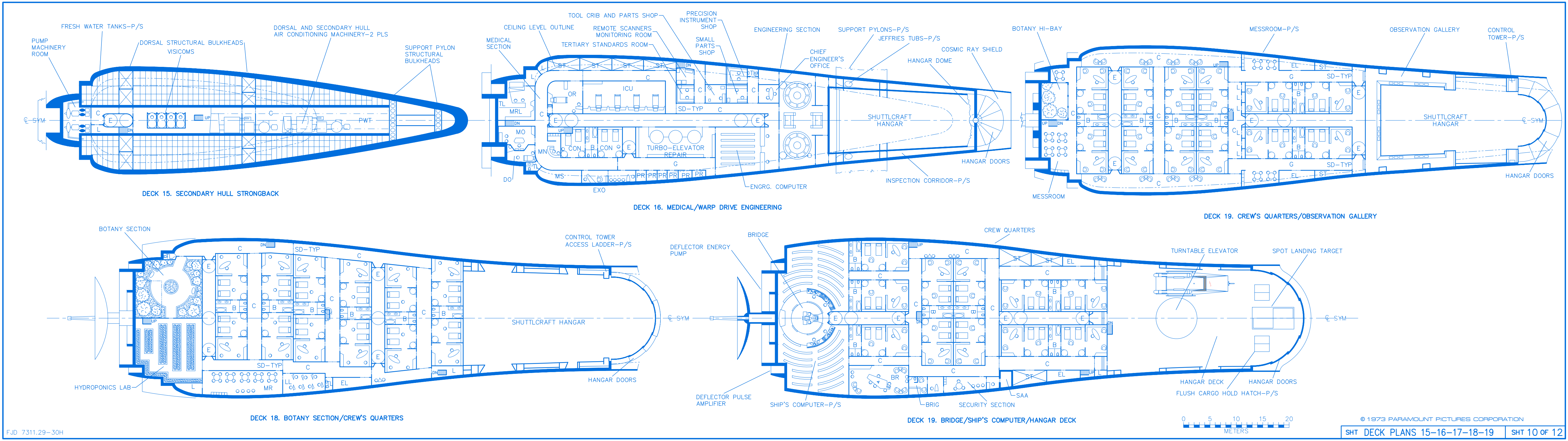
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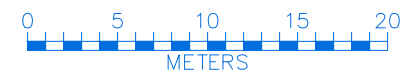
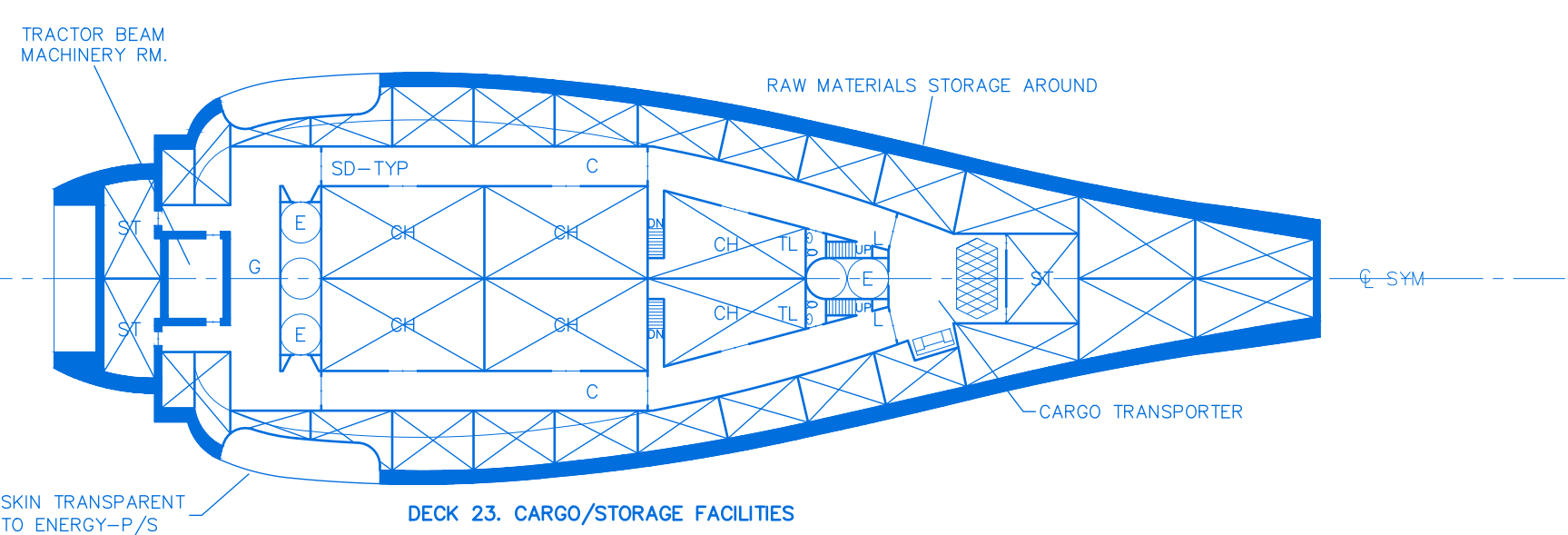
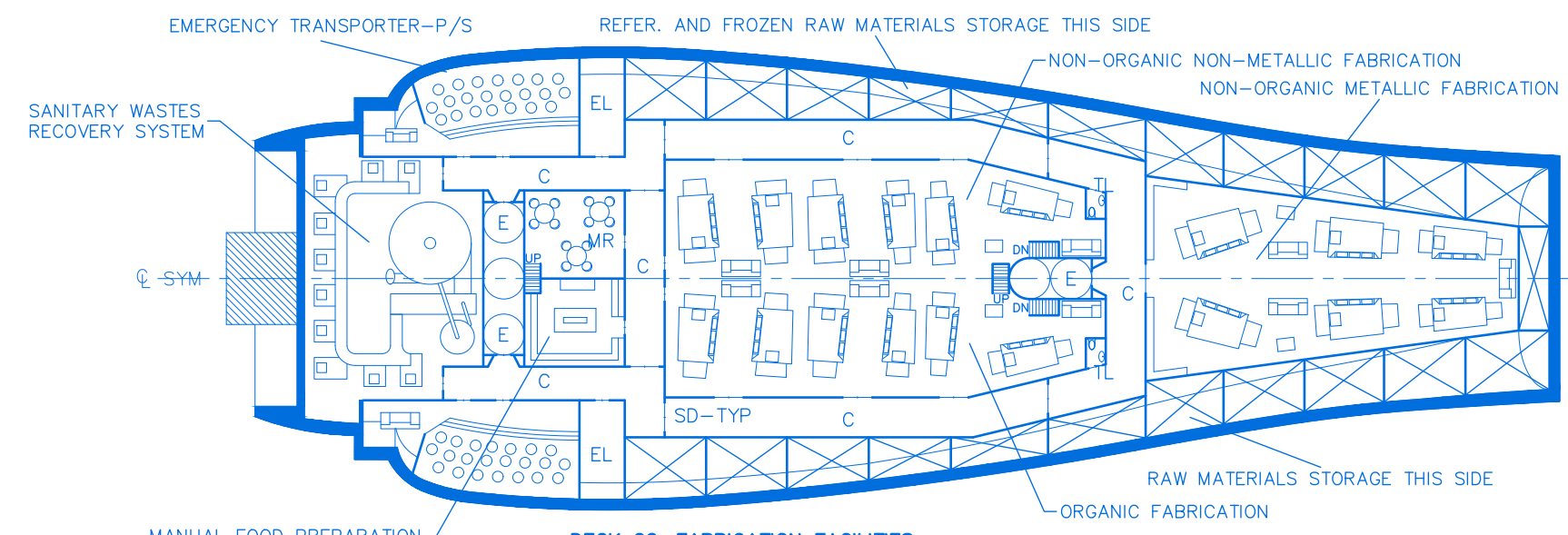
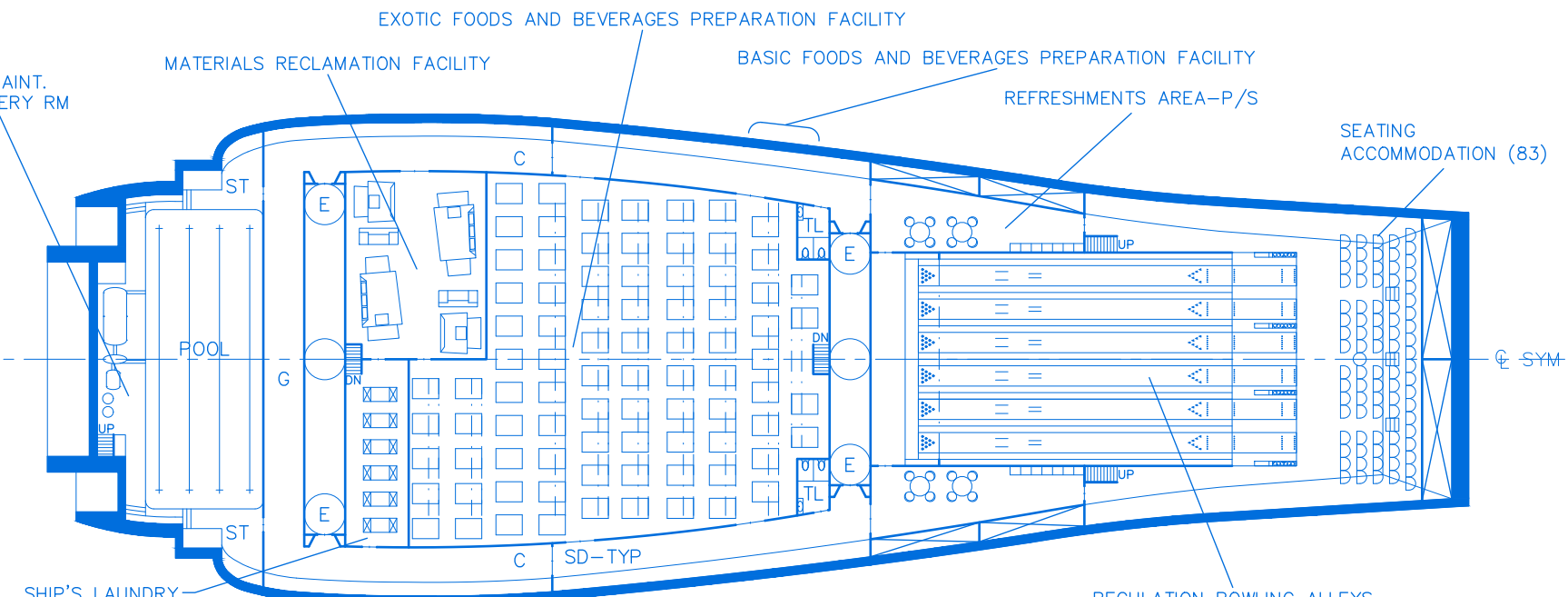
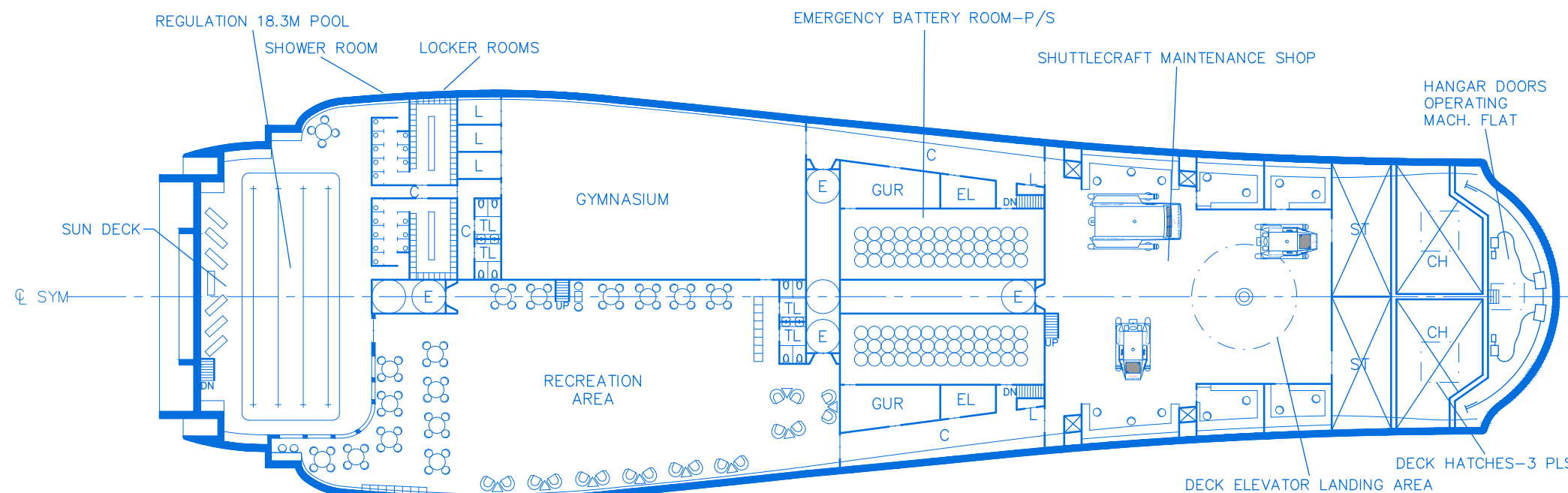
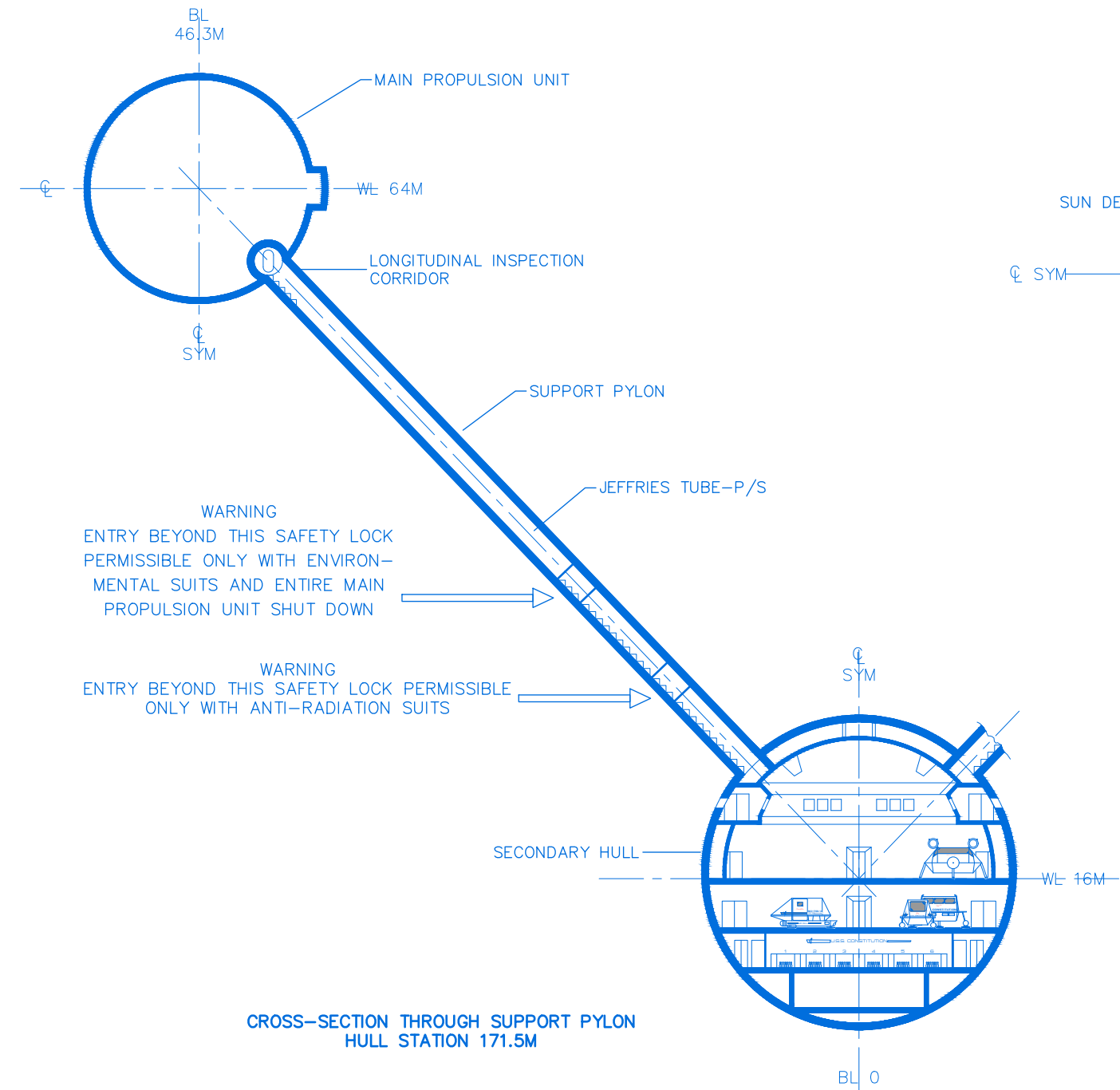
SHT DECK 7 PLAN - MAIN DECK SHT 8 OF 12

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A_____ AFT
 AUX_____ AUXILIARY
 B_____ BATHROOM
 BCL_____ CIO-CHEMICAL LABORATORY
 BL_____ BUTTOCK LINE
 BR_____ BRIEFING ROOM
 C_____ CORRIDOR
 CE_____ CHIEF ENGINEER
 CH_____ CARGO HOLD
 CIC_____ COMMAND INTELLIGENCE CENTER
 C_____ CORRIDOR
 CM_____ CHIEF SURGEON
 CMI_____ CHIEF SURGEON'S LAB
 CMO_____ CHIEF SURGEON'S OFFICE
 CN_____ CHIEF NAVIGATOR
 CNO_____ CHIEF NAVIGATOR'S OFFICE
 CO_____ COMMANDING OFFICER
 COM_____ COMPUTER
 COM-MOD_____COMMAND MODULE
 CON_____ CONVALESCENT WARD
 COND_____ CONDITIONING
 CONV_____ CONVEYOR
 CP_____ CHAPEL
 CR_____ CHART ROOM
 CS_____ CHIEF OF SECURITY
 CSC_____ COMMANDING OFFICER'S OFFICE
 CXR_____ CARGO TRANSPORTER
 DN_____ DOWN
 DO_____ DENTAL OFFICE (S)
 E_____ TURBO ELEVATOR STATION
 EB_____ EMERGENCY BRIDGE
 EL_____ ENVIRONMENTAL SUIT LOCKER
 EM_____ ELEVATOR MAINTENANCE SHOP

STANDARD ABBREVIATIONS:

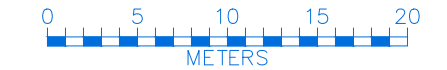
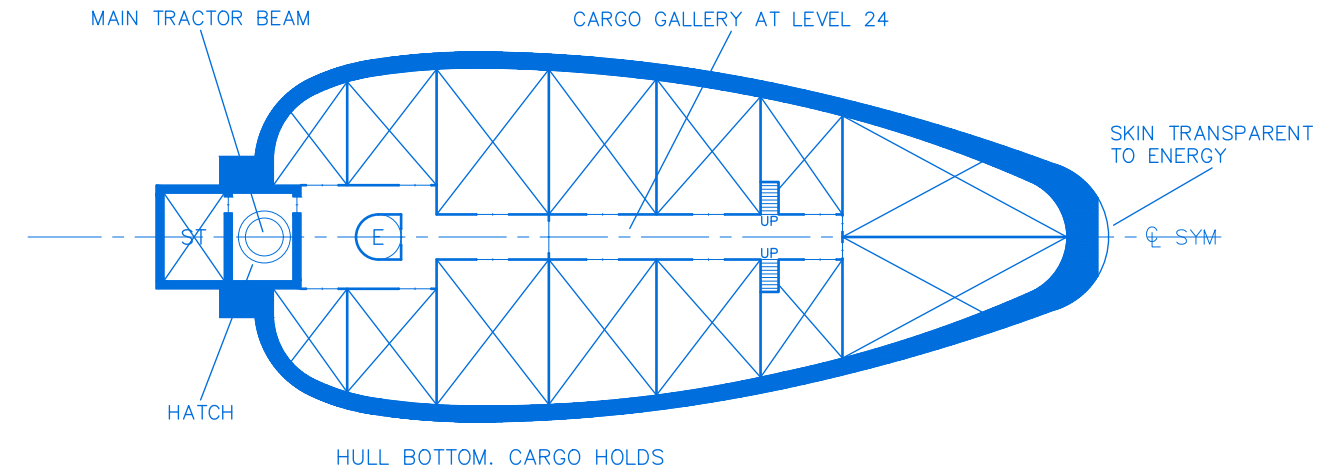
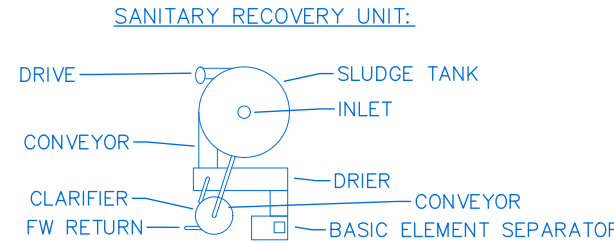
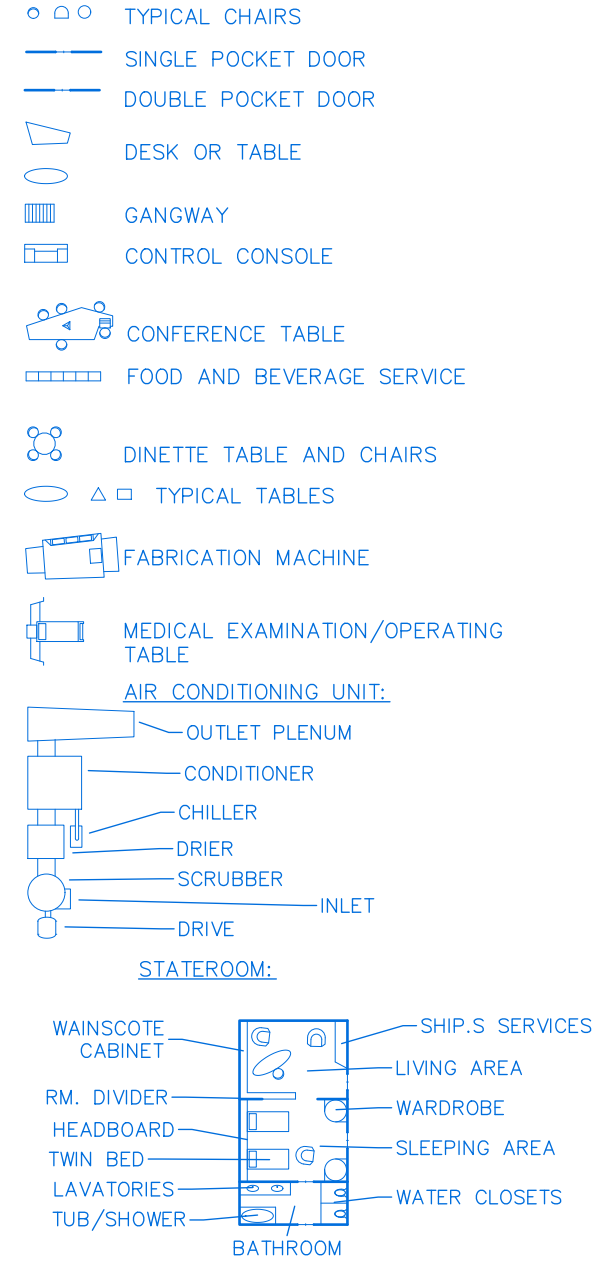
ENG_____ (ENGRG) ENGINEERING
 EXO_____ EXECUTIVE OFFICER'S OFFICE
 EXR_____ EMERGENCY TRANSPORTER
 F/A_____ FORE AND AFT
 FO_____ FIRST OFFICER
 FW_____ FRESH WATER
 FWD_____ FORWARD
 G_____ GALLERY
 GA_____ GANWAY(S) (COMPANIONWAY(S))
 GUR_____ GENERAL UTILITY ROOM
 IC_____ INSPECTION CORRIDOR
 ICU_____ INTENSIVE CARE UNIT
 L_____ LOCKER
 LAB_____ LABORATORY
 LL_____ LIBRARY LOUNGE
 LO_____ LOUNGE
 M_____ METER(S)
 MACH_____ MACHINERY
 MAINT_____ MAINTENANCE
 MN_____ DUTY NURSE
 MO_____ DOCTOR'S OFFICE
 MR_____ MESSROOM (DINING AREA)
 MRL_____ MEDICAL RESEARCH LAB
 MS_____ MEDICAL SUPPLIES
 OBS_____ OBSETRICS
 OL_____ OFFICER'S LOUNGE
 OR_____ EXAMINATION/OPERATING ROOM
 P_____ PORT (LEFT)
 PLS_____ PLACES
 PR_____ PERSONAL ISOLATION ROOM
 P/S_____ PORT AND STARBOARD
 PTR_____ PHOTON TORPEDO ROOM
 PWT_____ PIPING/WIRING TRUNK

RM_____ ROOM
 S_____ STARBOARD (RIGHT)
 SAA_____ SMALL ARMS ARSENAL
 SD_____ SECTION ISOLATION DOOR
 SO_____ SECURITY OFFICE
 SOC_____ SCIENCE OFFICER'S OFFICE
 ST_____ STOREROOM/STOWAGE
 SYM_____ SYMMETRY
 T_____ TOP
 T/B_____ TOP AND BOTTOM
 TB_____ THERAPEUTIC BATH(S)
 TL_____ TOILET
 TYP_____ TYPICAL
 UP_____ UP
 WL_____ WATERLINE
 WR_____ WAITING ROOM
 XR_____ TRANSPORTER

OFFICER GRADES:

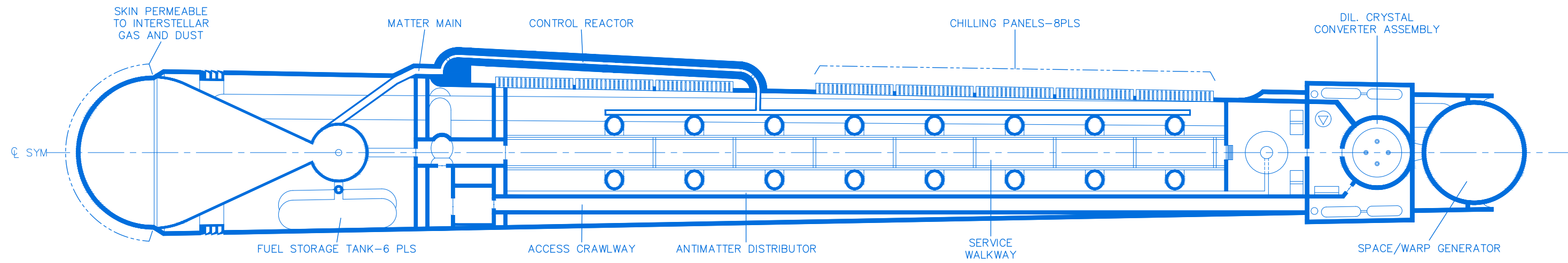
CAPT_____ CAPTAIN
 CMDR_____ COMMANDER
 LT. CMDR_____LT. COMMANDER
 LT_____ LIEUTENANT
 ENS_____ ENSIGN

PLAN SYMBOLS:

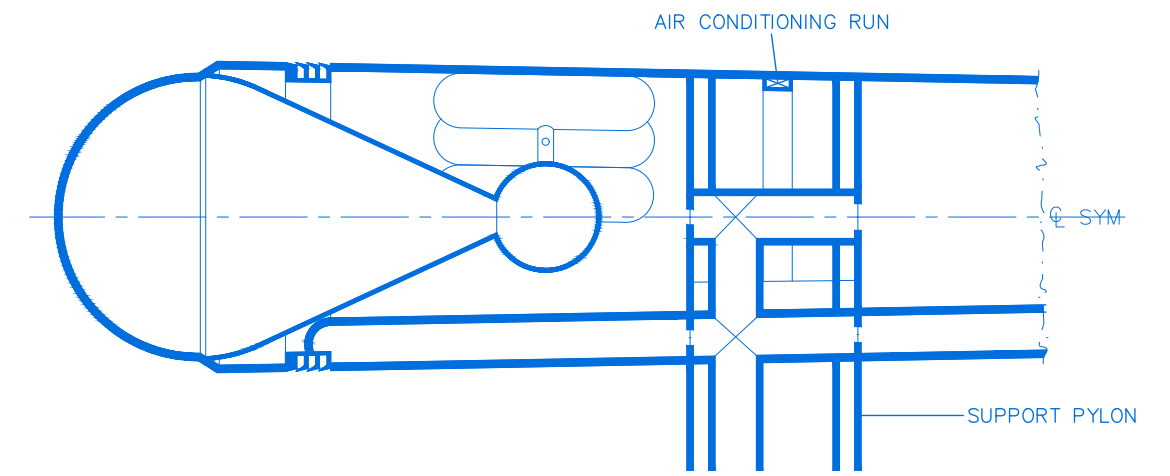


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STAR DATE	PRODUCTION RECORD
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7504.01	BY BALLANTINE BOOKS: REGULAR SECOND EDITION FIRST PRINTING
2405.04	BY WILLCAD DESIGNS: FULLY DIGITIZED EDITION

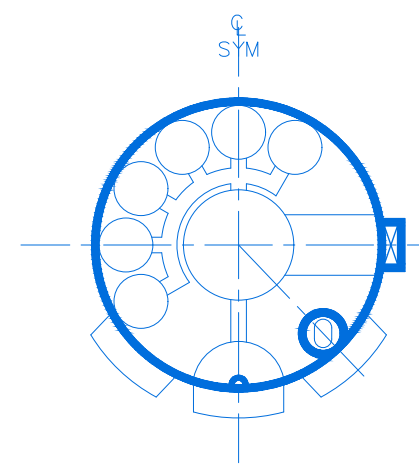


INBOARD TOP PLAN
(PORT SIDE UNIT SHOWN)

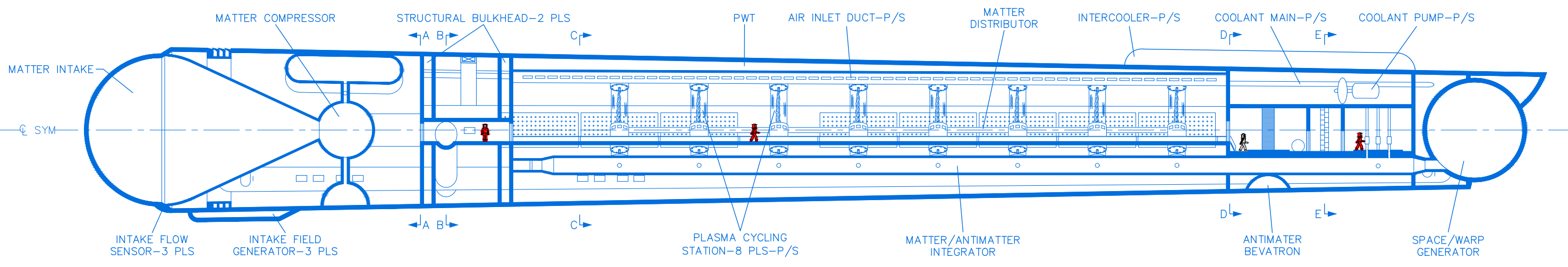


LONGITUDINAL CROSS-SECTION
THROUGH ϕ OF PYLON

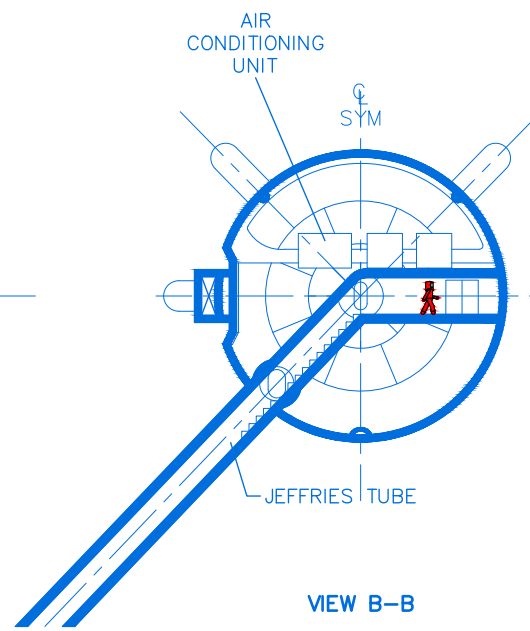
- PLAN SYMBOLS
- MAGNETIC BOTTLE GENERATOR
 - DILITHIUM CRYSTAL
 - LADDER
 - HEAT EXCHANGER



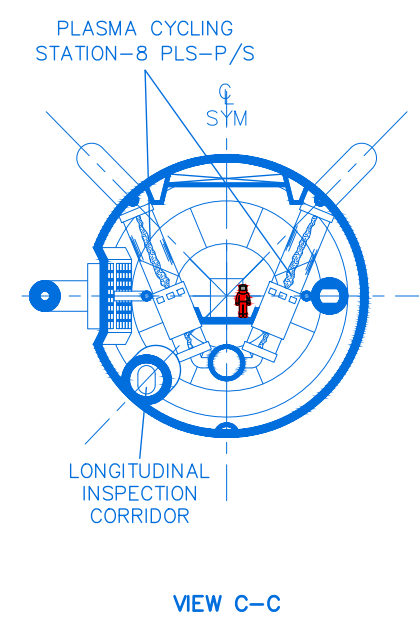
VIEW A-A



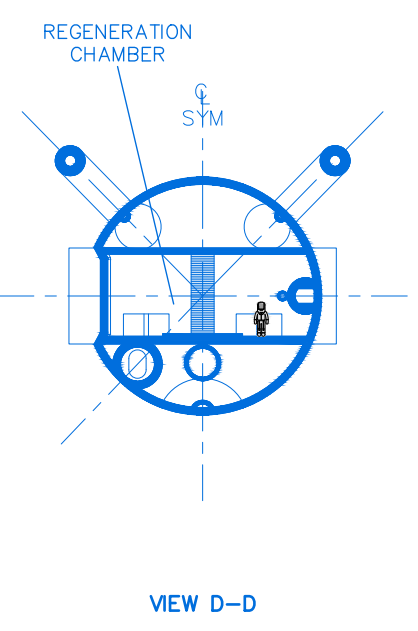
ϕ CUTAWAY PROFILE LOOKING TO STARBOARD
(PORT SIDE UNIT SHOWN)



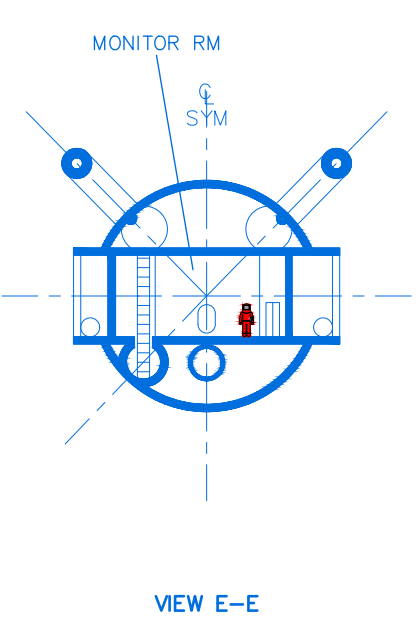
VIEW B-B



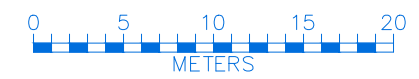
VIEW C-C



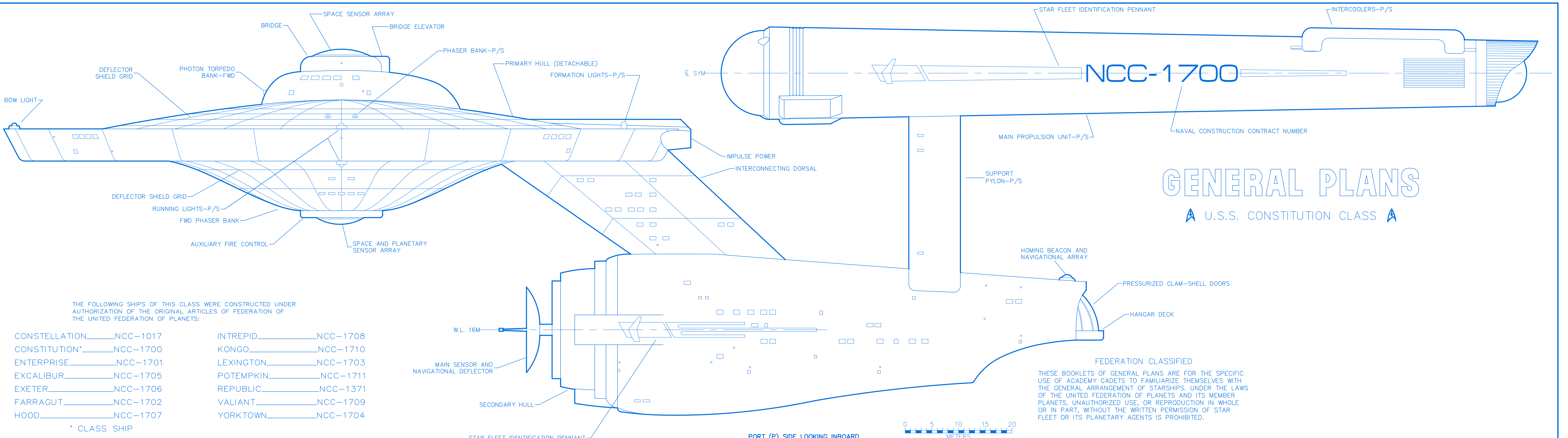
VIEW D-D



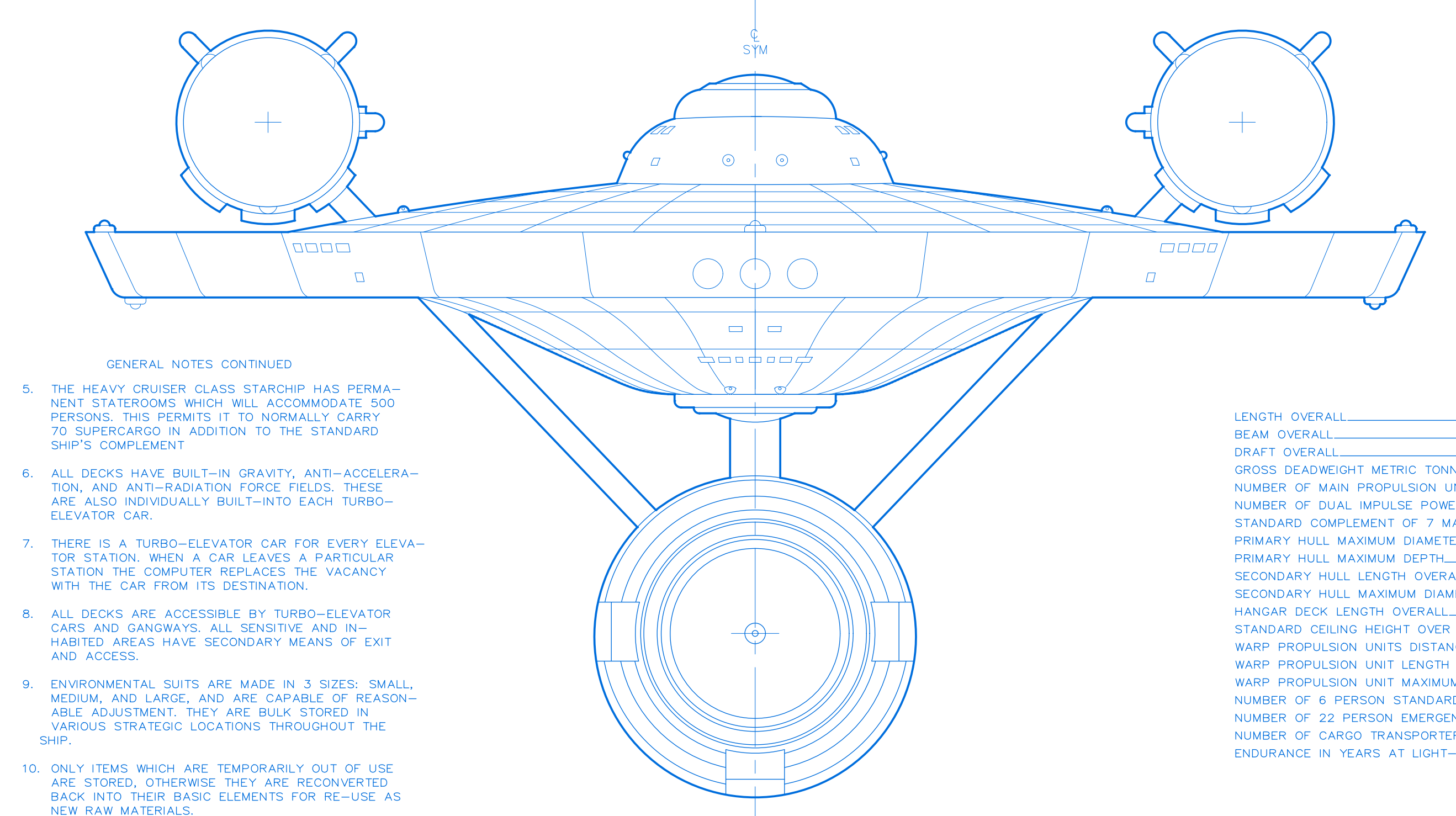
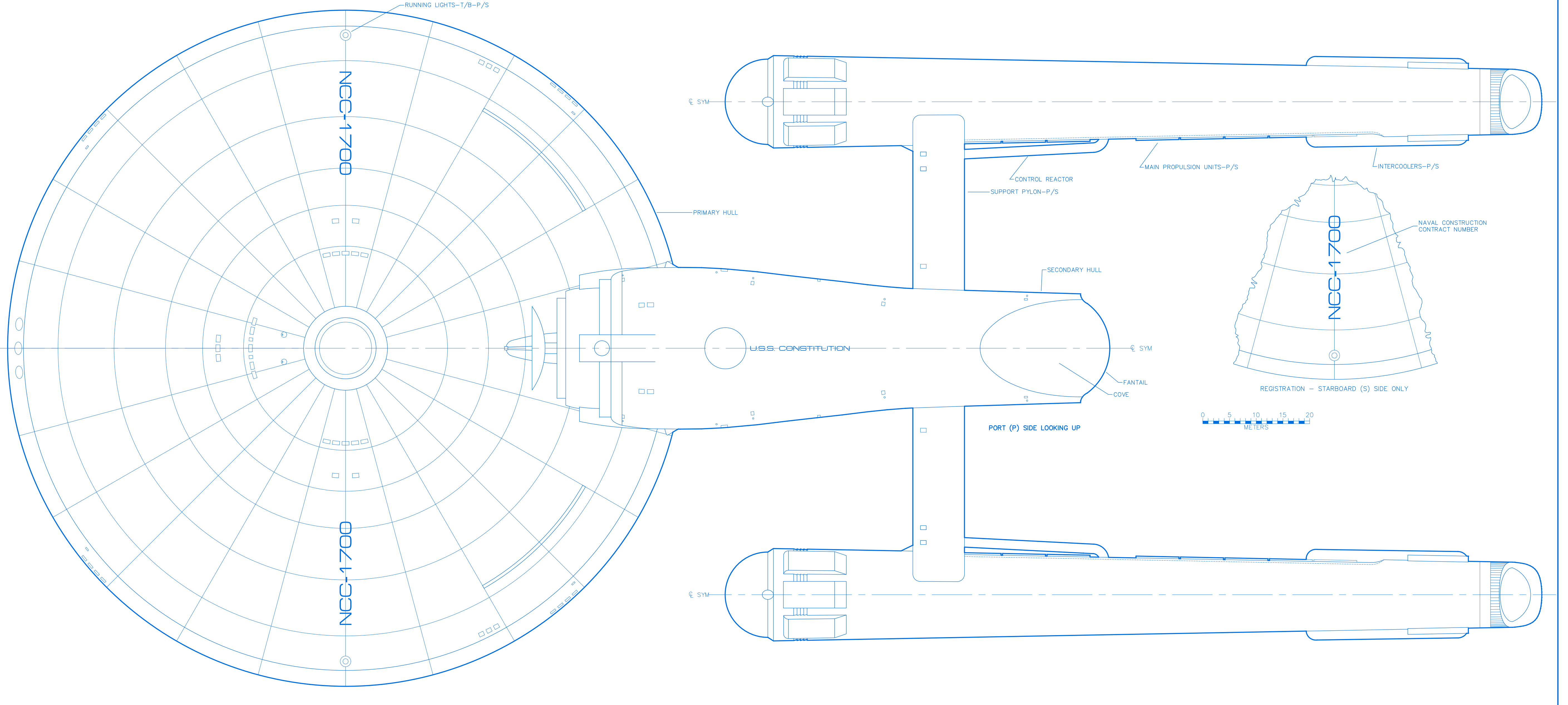
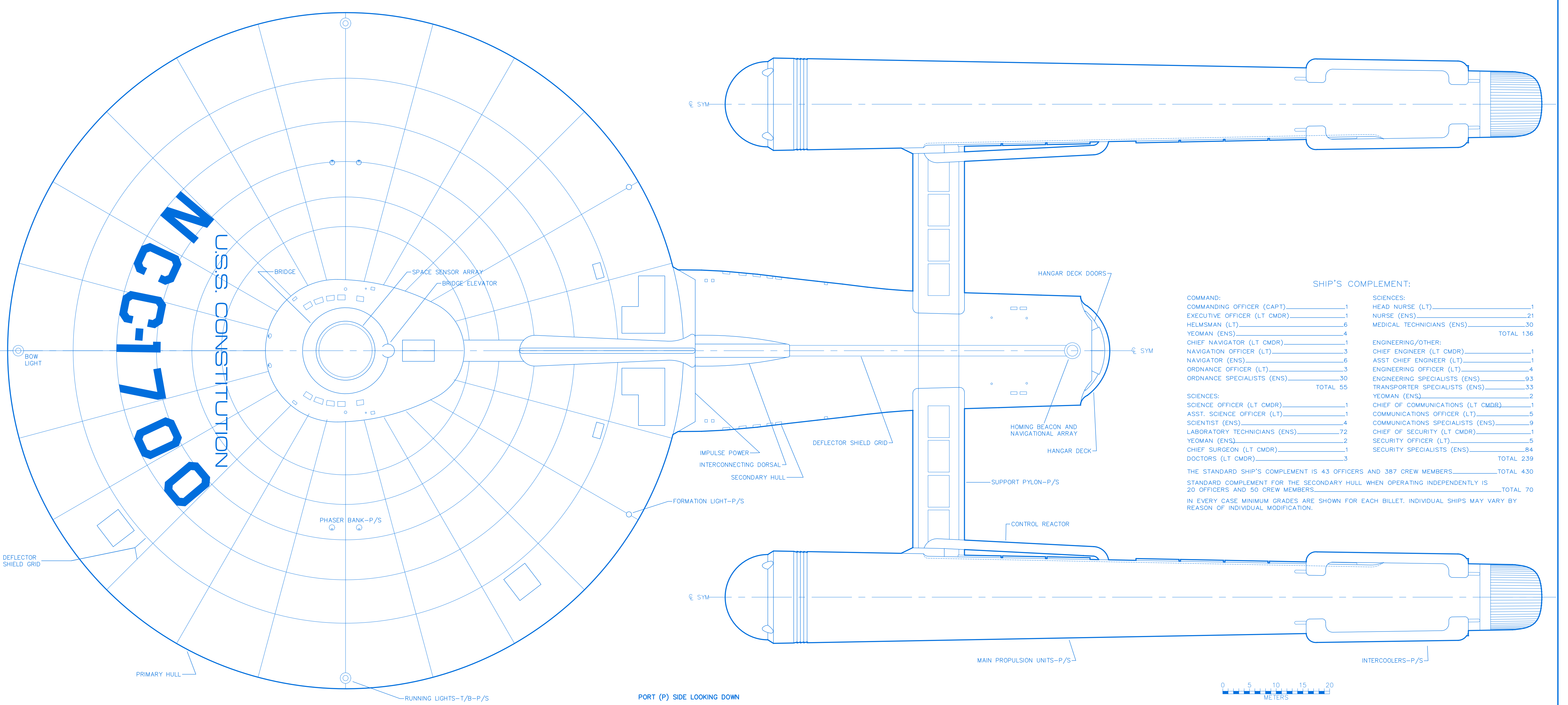
VIEW E-E



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- | | | | |
|---------------|----------|-----------|----------|
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- CLASS SHIP



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STANDARD CEILING HEIGHT OVER DECK	2.44 M
WARP PROPULSION UNITS DISTANCE BETWEEN E'S	93.659 M
WARP PROPULSION UNIT MAXIMUM OVERALL	153.619 M
WARP PROPULSION UNIT MAXIMUM DIAMETER	17.3 M
NUMBER OF 6 PERSON STANDARD TRANSPORTERS	4
NUMBER OF 22 PERSON EMERGENCY TRANSPORTERS	5
NUMBER OF CARGO TRANSPORTERS	2
ENDURANCE IN YEARS AT LIGHT-YEAR VELOCITY	18

- GENERAL NOTES**
- THESE PLANS ARE FOR FAMILIARIZATION PURPOSES ONLY AND SHOULD NOT BE CONFUSED WITH DETAIL WORKING DRAWINGS FOR THIS STARSHIP CLASS.
 - THE HEAVY CRUISER STARSHIP CLASS IS THE MAIN ELEMENT OF THE UNITED FEDERATION OF PLANETS PEACE-KEEPING FORCE.
 - EXCEPT WHEN BERTHED, A STARSHIP IS COMPLETELY MANNED AT ALL TIMES. FOR THIS PURPOSE THE SHIP'S COMPLEMENT IS DIVIDED INTO 3 WATCHES. NORMAL DUTY IS 8 HOURS ON WATCH AND 16 HOURS OFF DUTY ON YELLOW ALERT. THE 2ND WATCH IS ACTIVATED, AND ON RED ALERT ALL WATCHES MAN BATTLE STATIONS.
 - THE PRIMARY HULL IS SEPARABLE FROM THE SECONDARY HULL. WHEN SEPARATED EACH UNIT IS FULLY CAPABLE OF INDEPENDENT OPERATION. WHEN THE PRIMARY HULL IS EMPLOYED AS A SPACE LIBERATOR IT IS CAPABLE OF SUPPORTING THE ENTIRE SHIP'S COMPLEMENT. IF THE SECONDARY HULL MUST BE USED AS A SPACE LIBERATOR IT IS CAPABLE OF SUPPORTING THE ENTIRE SHIP'S COMPLEMENT UNDER EMERGENCY CONDITIONS.

