

89-00453



DRYDOCK MODULE

- CONSTRUCTION AND OVERHAUL OF SPACECRAFT
- STORAGE OF SPACECRAFT
- REFUELING AND RESUPPLY
- PASSENGER TERMINALS
- 4 DOCKING WINGS
- 26 AIRLOCK BAYS
- 4 WORKBEE STAGING PADS
- CAPACITY OF 16 HEAVY CRUISERS

MASS: 3,628,000 GMT
VOLUME: 12,416,000 CUY

STORAGE MODULE

- SPARE PARTS STORAGE AND REPLICATION
- WEAPONS ARSENAL

MASS: 312,000 GMT
VOLUME: 725,000 CUY

ADMINISTRATION / RECREATION MODULE

- ALL OFFICE FUNCTIONS
- DIPLOMATIC SERVICES
- VISITOR STATEROOMS
- RECREATIONAL LEVELS
- WATER RECYCLING

MASS: 2,114,000 GMT
VOLUME: 3,500,000 CUY

PRIMARY LIVING MODULE

- HOUSING FOR 50,000 STARBASE EMPLOYEES
- SHOPS, SCHOOLS, HOSPITALS
- EMERGENCY LIFEBOAT STATIONS
- PERSONNEL TRANSPORTER STATIONS

MASS: 612,000 GMT
VOLUME: 1,600,000 CUY

CENTRAL PROCESSING AND FABRICATION MODULE

- LIFE SUPPORT MACHINERY
- FABRICATION & REPAIR
- BULK FOOD PREPARATION

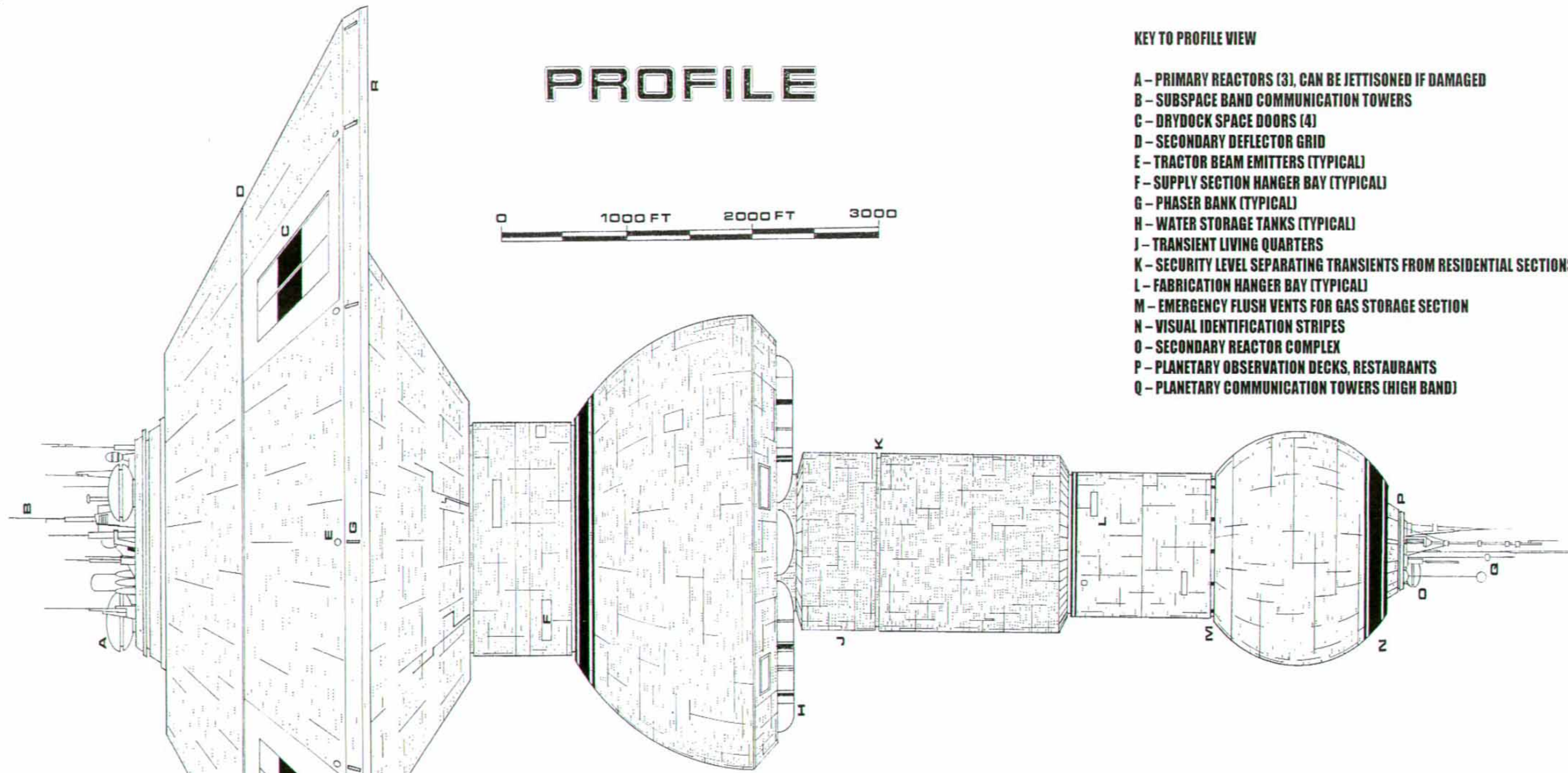
MASS: 180,000 GMT
VOLUME: 503,000 CUY

GASES STORAGE

- LIFE SUPPORT GASES
- WASTE RECLAMATION
- EMERGENCY LIFE SUPPORT

MASS: 346,000 GMT
VOLUME: 800,000 CUY

PROFILE



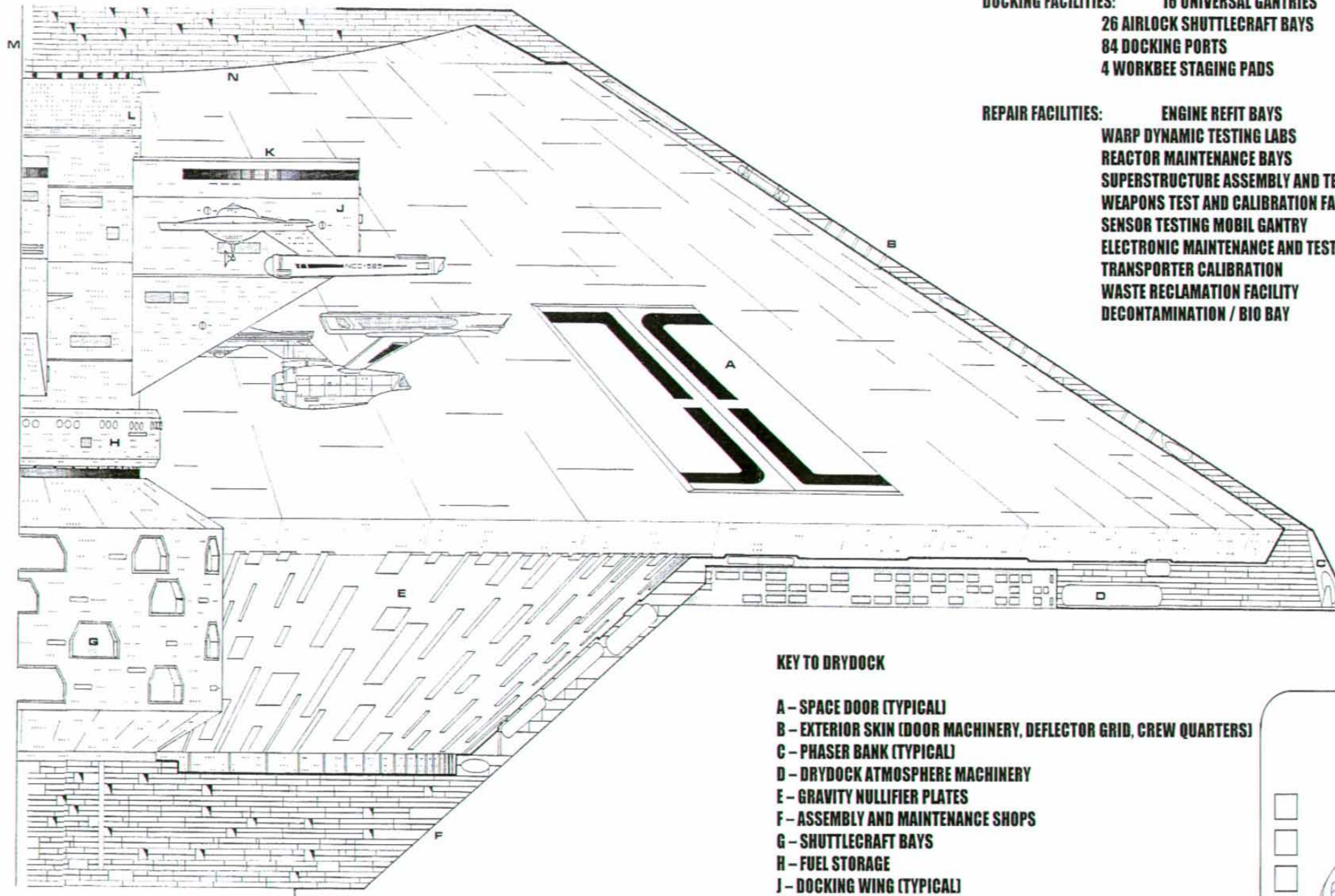
KEY TO PROFILE VIEW

- A - PRIMARY REACTORS (3), CAN BE JETTISONED IF DAMAGED
- B - SUBSPACE BAND COMMUNICATION TOWERS
- C - DRYDOCK SPACE DOORS (4)
- D - SECONDARY DEFLECTOR GRID
- E - TRACTOR BEAM EMITTERS (TYPICAL)
- F - SUPPLY SECTION HANGER BAY (TYPICAL)
- G - PHASER BANK (TYPICAL)
- H - WATER STORAGE TANKS (TYPICAL)
- J - TRANSIENT LIVING QUARTERS
- K - SECURITY LEVEL SEPARATING TRANSIENTS FROM RESIDENTIAL SECTIONS
- L - FABRICATION HANGER BAY (TYPICAL)
- M - EMERGENCY FLUSH VENTS FOR GAS STORAGE SECTION
- N - VISUAL IDENTIFICATION STRIPES
- O - SECONDARY REACTOR COMPLEX
- P - PLANETARY OBSERVATION DECKS, RESTAURANTS
- Q - PLANETARY COMMUNICATION TOWERS (HIGH BAND)

STARBASE
79

STAR FLEET CORPS OF ENGINEERS

89-00453

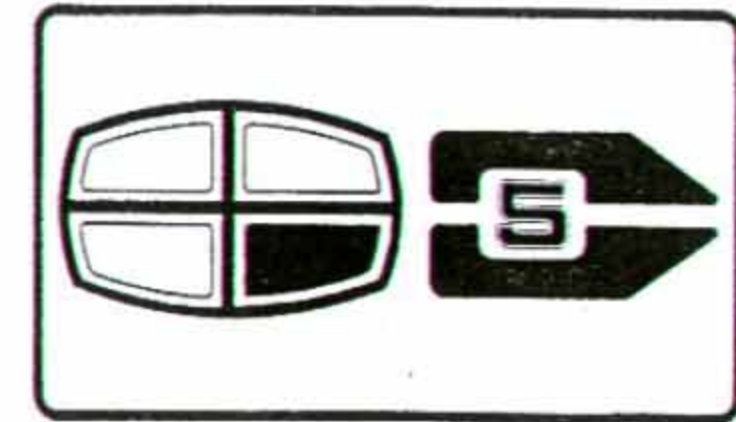


NOTES ON DRYDOCK SECTION

- 1) STANDARD DRYDOCK OUTFITTING WILL ACCOMMODATE UP TO 16 HEAVY CRUISERS FOR REPAIR AND RESUPPLY.
- 2) DOCK SPACE IS ALLOCATED ON A PRIORITY BASIS WITH NO BIAS TOWARDS PLANET OF ORIGIN OR RACE. IN THE EVENT OF A STAR FLEET ALERT CONDITION, ALL BAYS WILL BE CLEARED OF COMMERCIAL VESSELS AND DOCKWORKERS WILL SWITCH TO YELLOW WORK SCHEDULES, TWELVE HOUR SHIFTS.

DOCKING FACILITIES: 16 UNIVERSAL GANTRIES
 26 AIRLOCK SHUTTLECRAFT BAYS
 84 DOCKING PORTS
 4 WORKBEE STAGING PADS

REPAIR FACILITIES: ENGINE REFIT BAYS
 WARP DYNAMIC TESTING LABS
 REACTOR MAINTENANCE BAYS
 SUPERSTRUCTURE ASSEMBLY AND TEST FACILITIES
 WEAPONS TEST AND CALIBRATION FACILITY
 SENSOR TESTING MOBIL GANTRY
 ELECTRONIC MAINTENANCE AND TEST FACILITY
 TRANSPORTER CALIBRATION
 WASTE RECLAMATION FACILITY
 DECONTAMINATION / BIO BAY

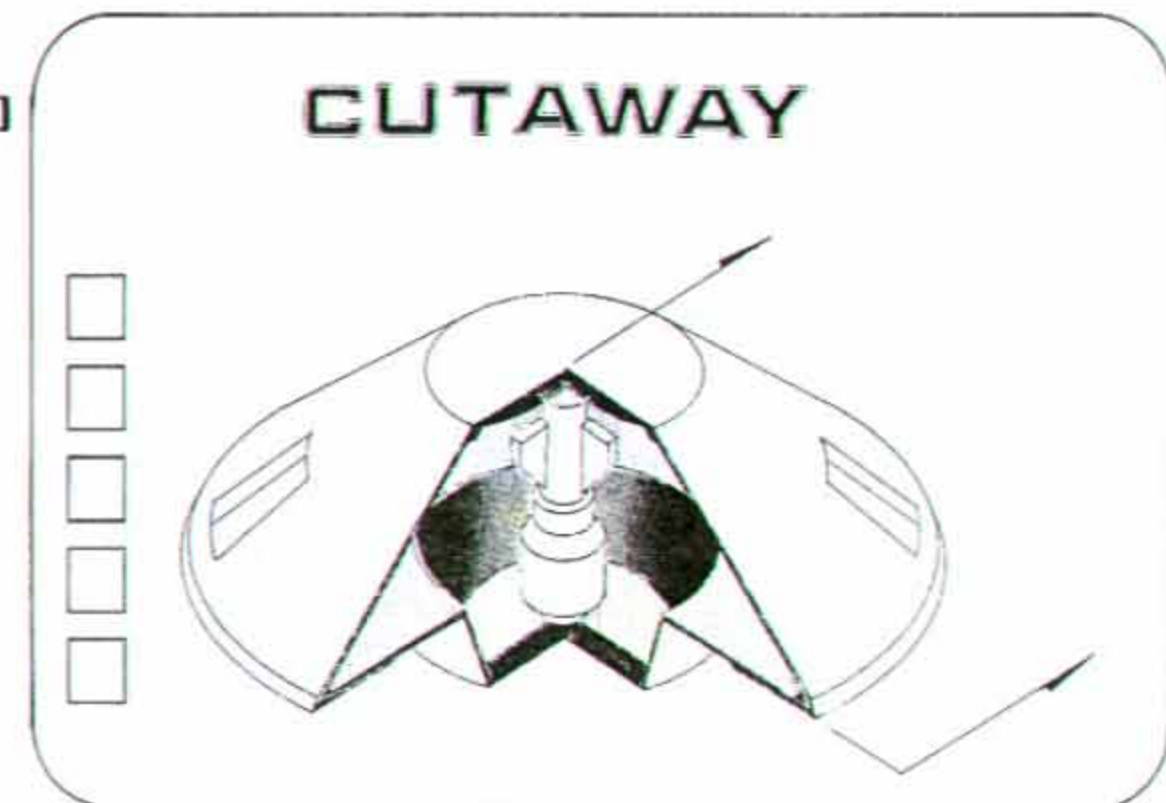


STARBASE
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KEY TO DRYDOCK

- A - SPACE DOOR (TYPICAL)
- B - EXTERIOR SKIN (DOOR MACHINERY, DEFLECTOR GRID, CREW QUARTERS)
- C - PHASER BANK (TYPICAL)
- D - DRYDOCK ATMOSPHERE MACHINERY
- E - GRAVITY NULLIFIER PLATES
- F - ASSEMBLY AND MAINTENANCE SHOPS
- G - SHUTTLECRAFT BAYS
- H - FUEL STORAGE
- J - DOCKING WING (TYPICAL)
- K - WORKBEE STAGING PADS
- L - TRAFFIC CONTROL OFFICES
- M - TRAVEL CORE
- N - LIGHTING SURFACE

CUTAWAY



STARBASE 79

SHEET 2

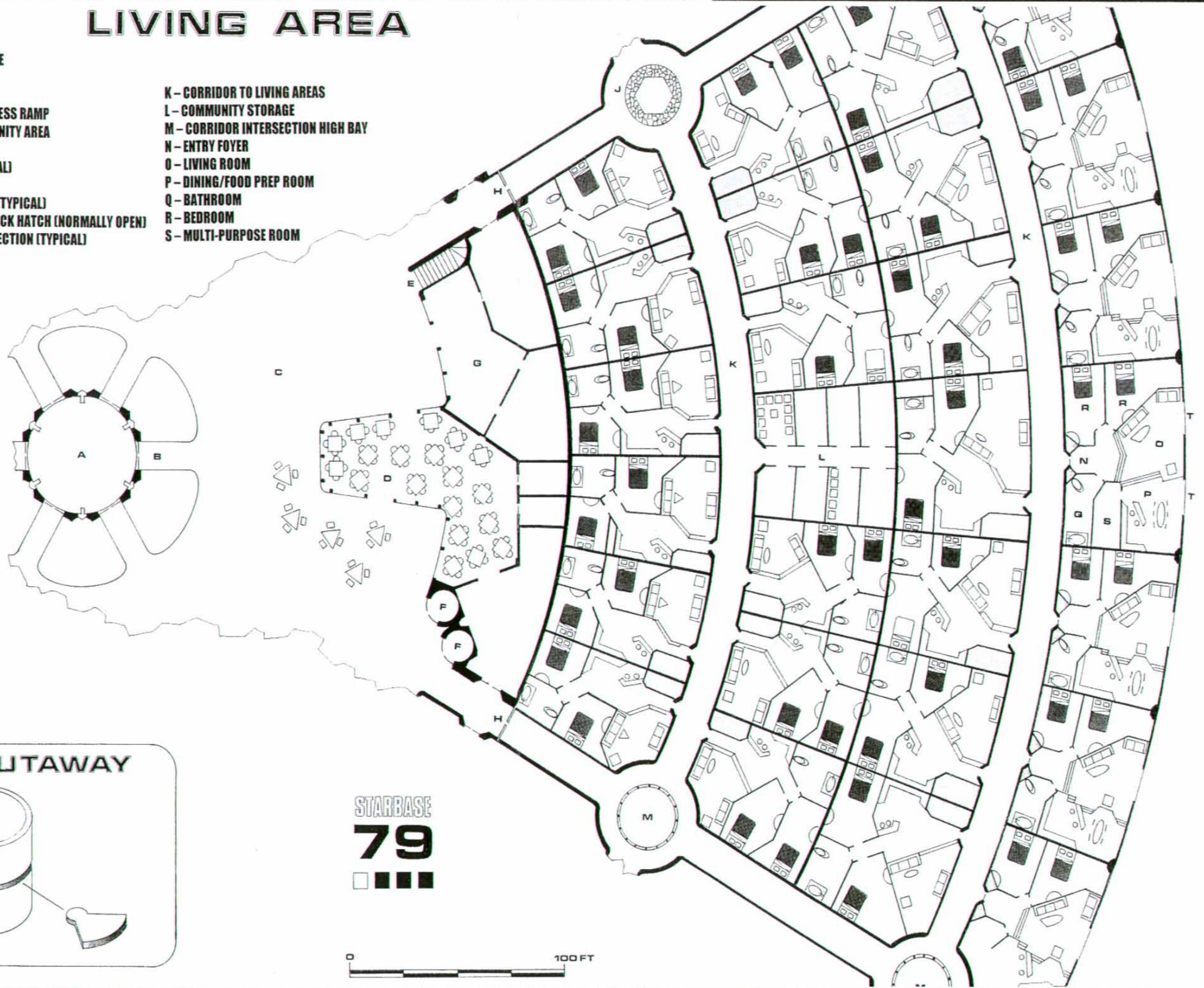
STAR FLEET CORPS OF ENGINEERS

LIVING AREA

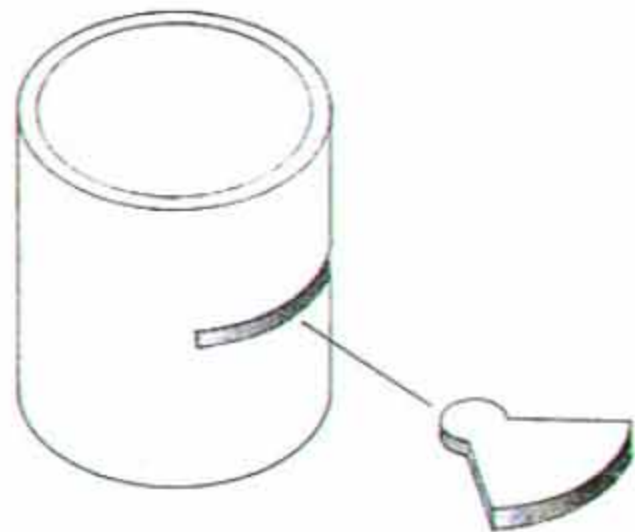
KEY TO LIVING MODULE

- A - TRAVEL CORE
- B - TRAVEL CORE ACCESS RAMP
- C - OPEN-AIR COMMUNITY AREA
- D - RESTAURANT
- E - STAIRWAY (TYPICAL)
- F - TURBO ELEVATOR
- G - MERCHANT SHOP (TYPICAL)
- H - EMERGENCY AIRLOCK HATCH (NORMALLY OPEN)
- J - CORRIDOR INTERSECTION (TYPICAL)
- K - CORRIDOR TO LIVING AREAS
- L - COMMUNITY STORAGE
- M - CORRIDOR INTERSECTION HIGH BAY
- N - ENTRY FOYER
- O - LIVING ROOM
- P - DINING/FOOD PREP ROOM
- Q - BATHROOM
- R - BEDROOM
- S - MULTI-PURPOSE ROOM

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CUTAWAY



STARBASE
79

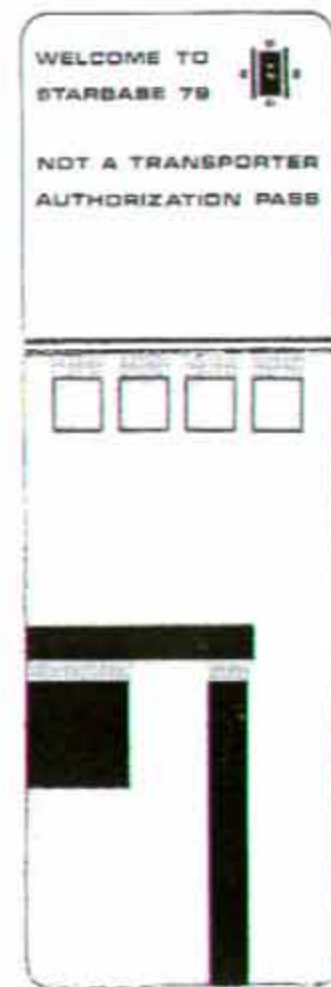
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STARBASE 79

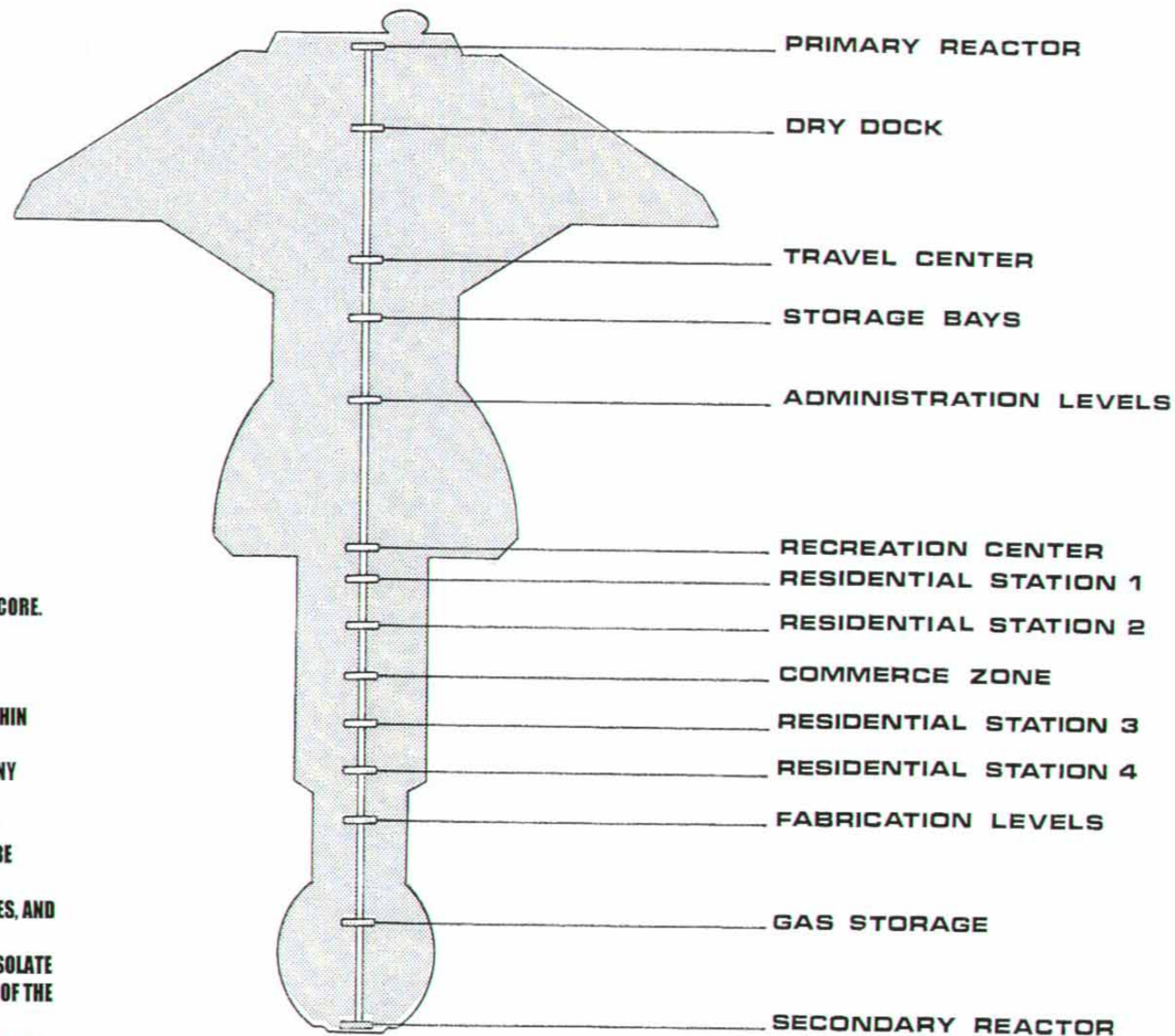
SHEET 3



89-00453



TRAVEL CORE STATIONS



NOTES ON TRAVEL CORE

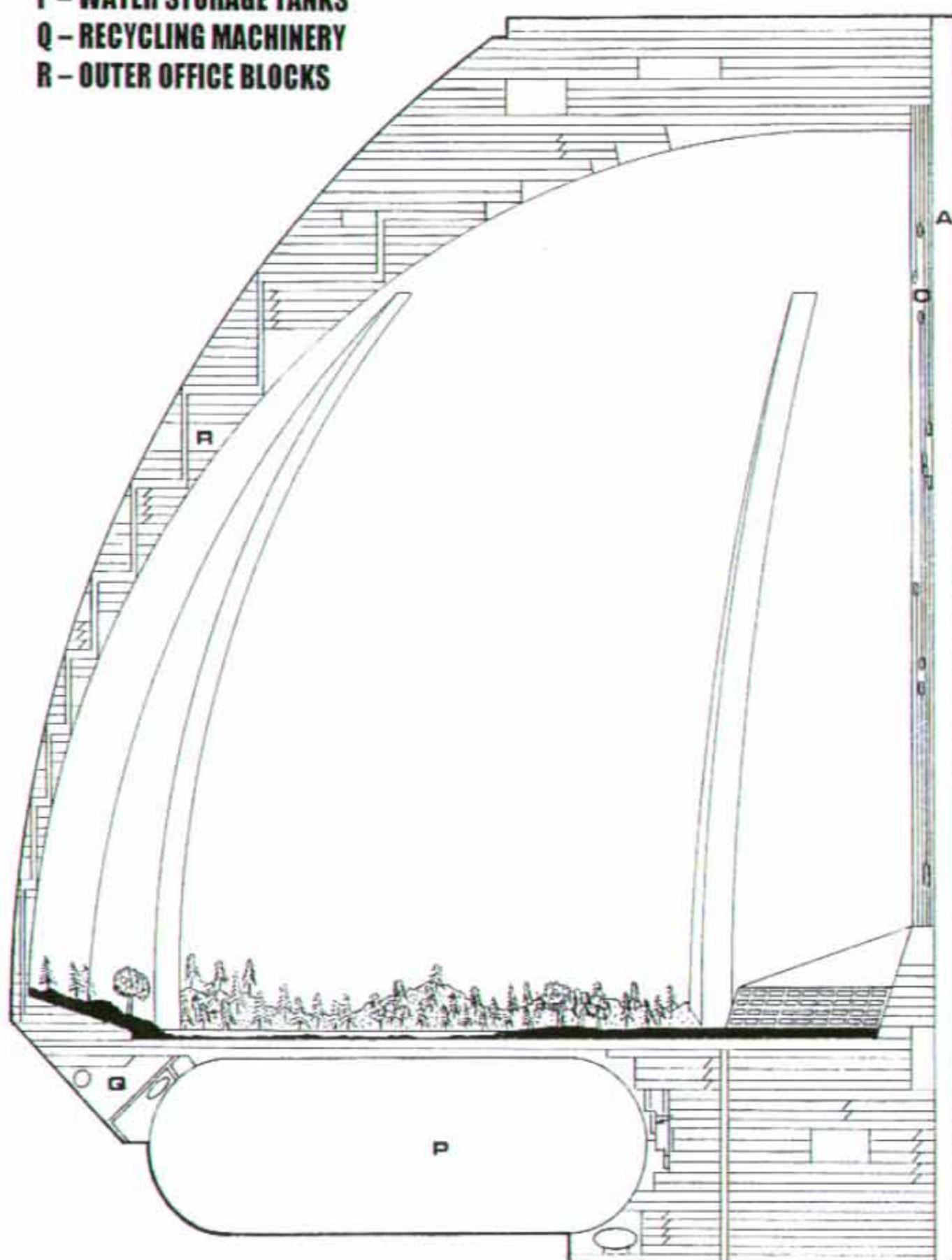
- 1) THE PRIMARY METHOD OF TRAVEL BETWEEN MODULES WITHIN A STARBASE IS BY USE OF THE TRAVEL CORE. TRAVEL WITHIN INDIVIDUAL MODULES IS BY STANDARD TURBOELEVATOR.
- 2) TRAVEL CORE CONSISTS OF SIX HIGH SPEED MAG-LEV TRACKS EXTENDING THE ENTIRE LENGTH OF THE STARBASE.
- 3) THE TRAVEL CORE HAS FOURTEEN MAIN STATIONS CENTRALLY LOCATED TO POPULATION CENTERS WITHIN EACH MODULE.
- 4) EACH MAG-LEV CAR HOLDS 30 PERSONS AND HAS THREE INTERIOR LEVELS, ENTRY CAN BE THROUGH ANY LEVEL.
- 5) AVERAGE TRAVEL TIME BETWEEN STATIONS IS TWO MINUTES, TOTAL TRAVEL TIME TOP TO BOTTOM IS GENERALLY OVER THIRTY MINUTES, ALTHOUGH IN EMERGENCY SITUATIONS, RAPID DEPLOYMENT CAN BE UNDER FIVE MINUTES.
- 6) THE TIMETABLES OF EACH CAR IS STAGGERED AND VARIES ACCORDING TO TIME OF DAY, SHIFT CHANGES, AND STARBASE ALERT STATUS.
- 7) THE TRAVEL CORE IS TOTALLY ENCLOSED AND SELF-PRESSURIZED, AND CONTAINS AIRLOCK SEALS TO ISOLATE THE VARIOUS MODULES. IN A CRITICAL DAMAGE ALERT ALL SEALS ENGAGE TO PROTECT THE INTEGRITY OF THE STATION.
- 8) ELEVATOR REPAIR FACILITIES ARE LOCATED IN THE FABRICATION SECTION. TWO SPARE ELEVATOR CARS ARE ALWAYS READY FOR DEPLOYMENT WITH TWO MORE IN STORAGE.
- 9) A TRAVEL PASS IS REQUIRED TO USE TRAVEL CORE SERVICES. STARBASE EMPLOYEES AND FEDERATION MEMBERS ARE EXEMPT.



STAR FLEET CORPS OF ENGINEERS

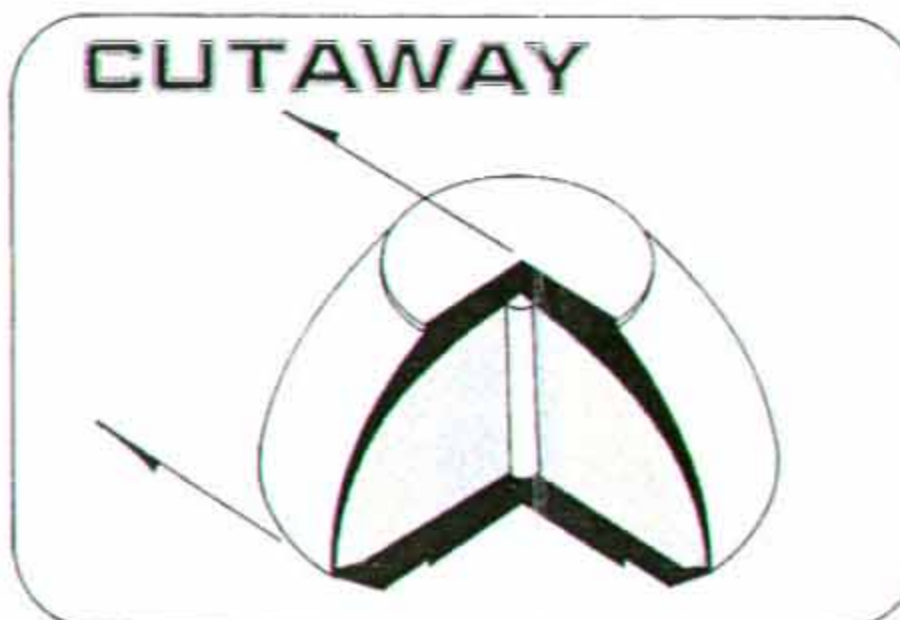
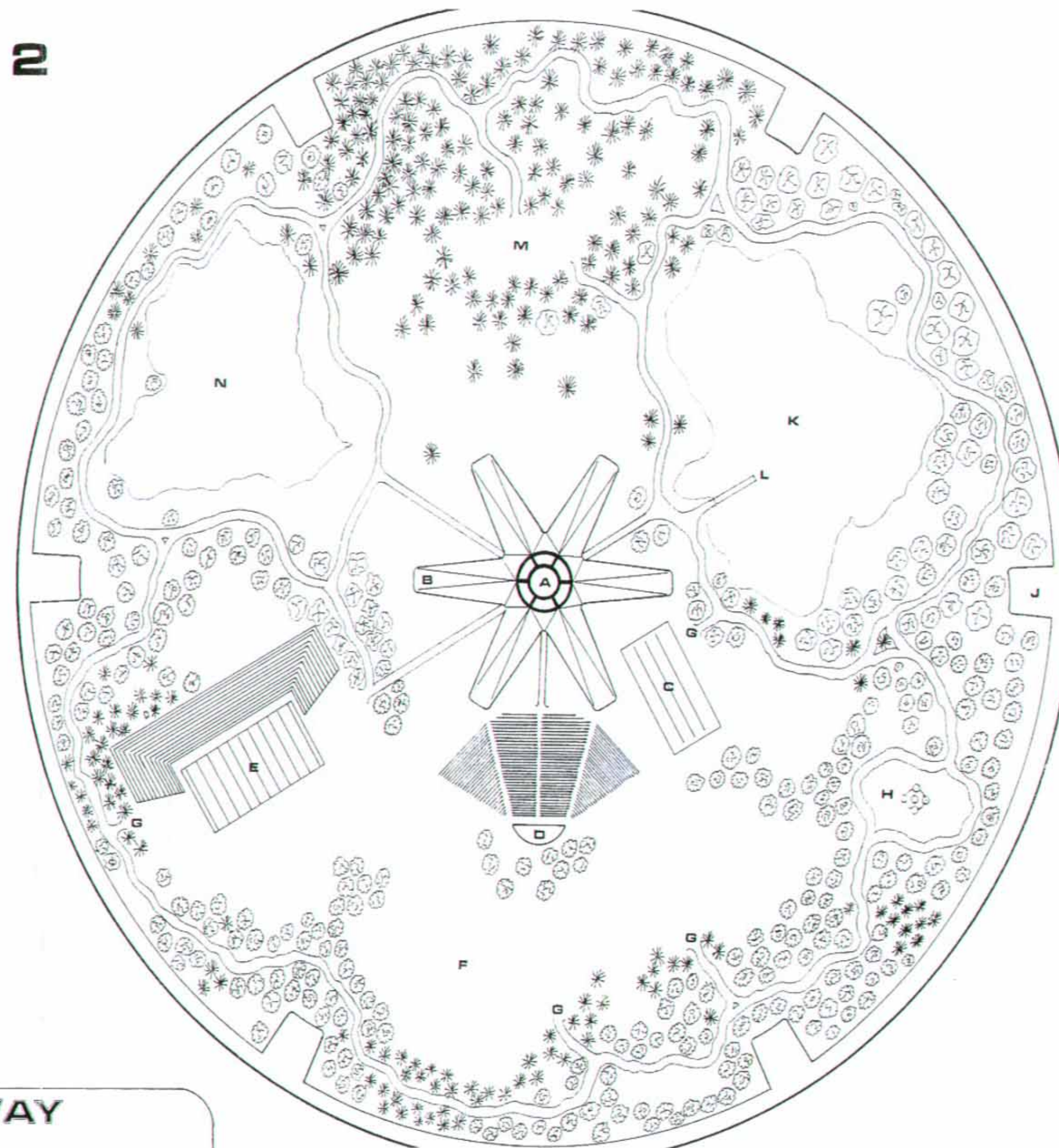
KEY TO ADMINISTRATION / RECREATION MODULE

- A - TRAVEL CORE
- B - EXECUTIVE OFFICE COMPLEX
- C - SWIMMING POOL
- D - AMPHITHEATER (SEATING FOR 3,000)
- E - SOCCER STADIUM (SEATING FOR 3,500)
- F - PICNIC AREA, PLAYGROUND
- G - ENTRANCE TO NATURE TRAIL
- H - FEDERATION PARK
- J - SUPPORT STRUT (TYPICAL)
- K - BOATING LAKE
- L - BOAT SLIP
- M - DENSE PINE FOREST
- N - TROUT POND
- O - CENTRAL CONDUIT DUCTS
- P - WATER STORAGE TANKS
- Q - RECYCLING MACHINERY
- R - OUTER OFFICE BLOCKS



1000 FT

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REC - ADMIN

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12243

STARBASE 79

SHEET 5

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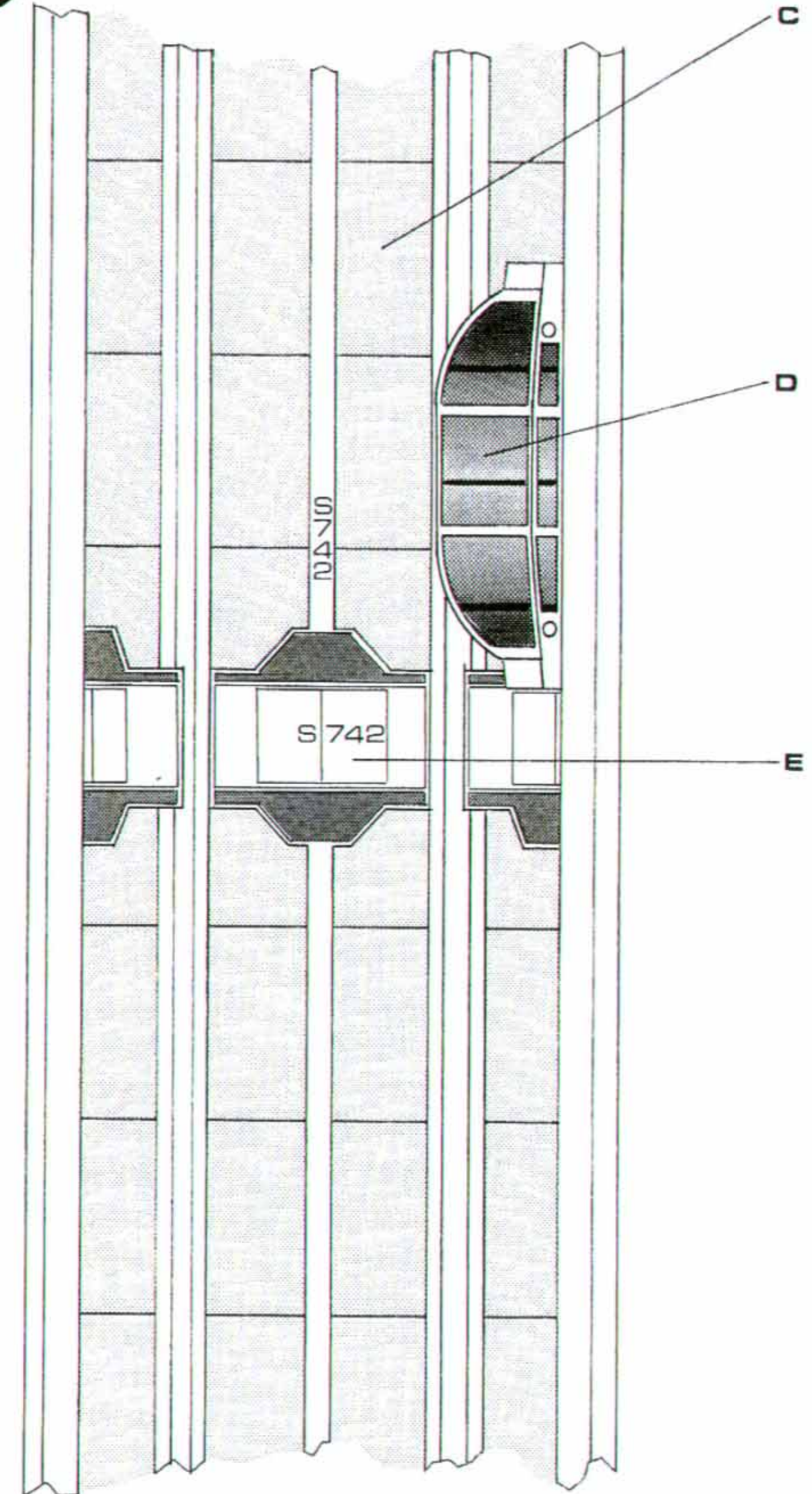
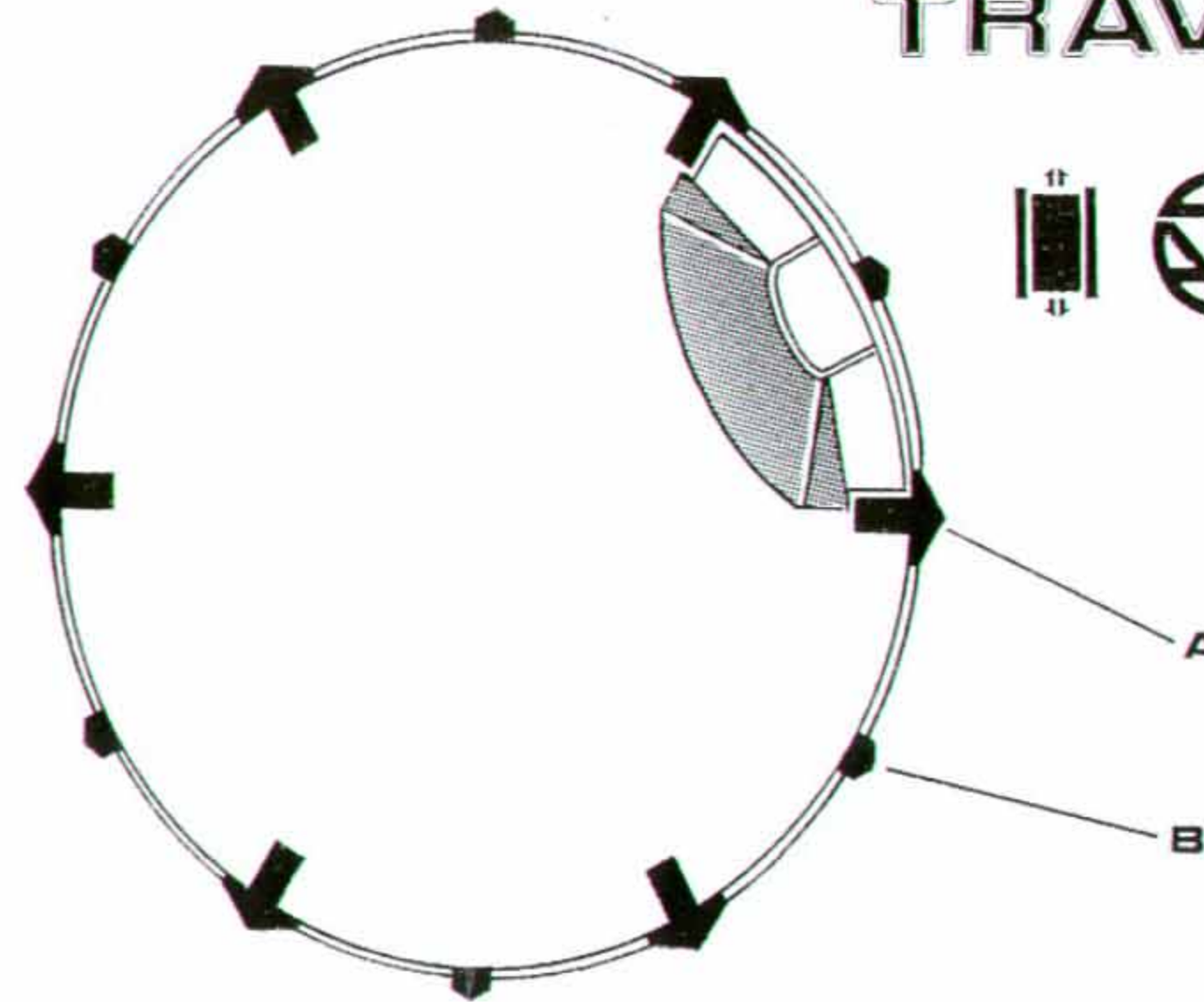


TRAVEL CORE

PRINTING HISTORY

9003.31: PRELIMINARY DRAWINGS
 9006.12: REVIEW AND FINAL REVISIONS
 9010.28: PROOF SET
 9012.01: FIRST MASS MARKET PRINTING
 10308.26: REDESIGN AND UPGRADE

89-00453



NOTES

- 1) WHILE ALL STARBASES ARE DIFFERENT, THEY ALL START FROM THE SIX STANDARD SECTIONS SHOWN ON THIS EXAMPLE. STARBASE 79 IS ILLUSTRATED HERE BECAUSE IT INCORPORATES ALL STANDARD SECTIONS AND IS CLASSIFIED AS A GENERAL PURPOSE FACILITY.
- 2) STARBASE 79 IS CURRENTLY LOCATED IN THE LYRA STAR SYSTEM AND WAS MADE OPERATIONAL ON STARDATE 8916.32
- 3) STANDARD COMPLEMENT FOR A STARBASE THIS SIZE IS 40,000 TO 50,000 FULL TIME RESIDENTS, WORKERS, AND DEPENDENTS.
- 4) GUEST FACILITIES EXIST FOR 8,000 ADDITIONAL PERSONNEL. UNITED FEDERATION OF PLANETS CHARTER STIPULATES THAT HALF OF THIS CAPACITY BE MADE AVAILABLE FOR U.F.P. AND STAR FLEET PERSONNEL.
- 5) WHEN A STARBASE IS SITUATED IN ORBIT AROUND A FEDERATION MEMBER PLANET, IT MUST OBEY THE LAWS AND CUSTOMS OF THAT CULTURE. ALSO, SOME FEDERATION MEMBERS DICTATE THAT STARBASE PERSONNEL BE COMPRISED OF A CERTAIN PERCENTAGE OF LOCAL POPULATION
- 6) STARBASES ARE OPERATED AS A BUSINESS VENTURE, CHARGES ARE LEVIED FOR ALL SERVICES PERFORMED, BOTH TO FEDERATION AND PRIVATE SECTOR CRAFT. STARBASE 79 HAS POSTED POSITIVE EARNINGS FOR SIX OF THE PAST TEN YEARS. STARBASES SITUATED ALONG VARIOUS NEUTRAL ZONES AND FRONTIER TERRITORIES ARE HEAVILY SUBSIDIZED.
- 7) STARBASE SECTIONS ARE FABRICATED AT ONE OF THREE STARFLEET CORPS OF ENGINEERS ASSEMBLY BASES: EARTH ORBITAL ASSEMBLY YARD, RIGEL VERY LARGE STRUCTURE GROUP, AND CESTUS III ASSEMBLY YARD.
- 8) STARBASE DEFENSES VARY WITH THEIR LOCATION WITHIN THE FEDERATION. A TYPICAL BORDER OUTPOST WOULD CONTAIN THE FOLLOWING: 6 QUAD LEVEL PHASER BANKS, 4 PHOTORP MOBIL LAUNCH ASSEMBLIES LOCATED ON THE EXTERIOR LIP OF THE DRYDOCK MODULE, 340 PRIMARY DEFLECTOR COILS LOCATED ON THE UPPER SURFACE OF THE DRYDOCK MUDULE.
- 9) TOTAL YEARLY OPERATING COSTS FOR STARBASE 79 IS 1.23 BILLION FEDERATION CREDITS PER YEAR. CONSTRUCTION COSTS ARE AMORTIZED OVER A TWENTY-YEAR PERIOD.
- 10) STARBASES CAN BE CONFIGURED FOR SPECIFIC FUNCTIONS, SUCH AS COMMERCIAL DRYDOCK, DIPLOMATIC EMBASSY, DEEP SPACE LISTENING POST, RESUPPLY BASE, AND CULTURAL DEVELOPMENT STATION AROUND A PRIMITIVE PROTECTORATE PLANET.
- 11) FOR ADDITIONAL INFORMATION ABOUT FEDERATION STARBASES PLEASE CONTACT STAR FLEET CORPS OF ENGINEERS, SOL SYSTEM, EARTH.

KEY TO TRAVEL CORE

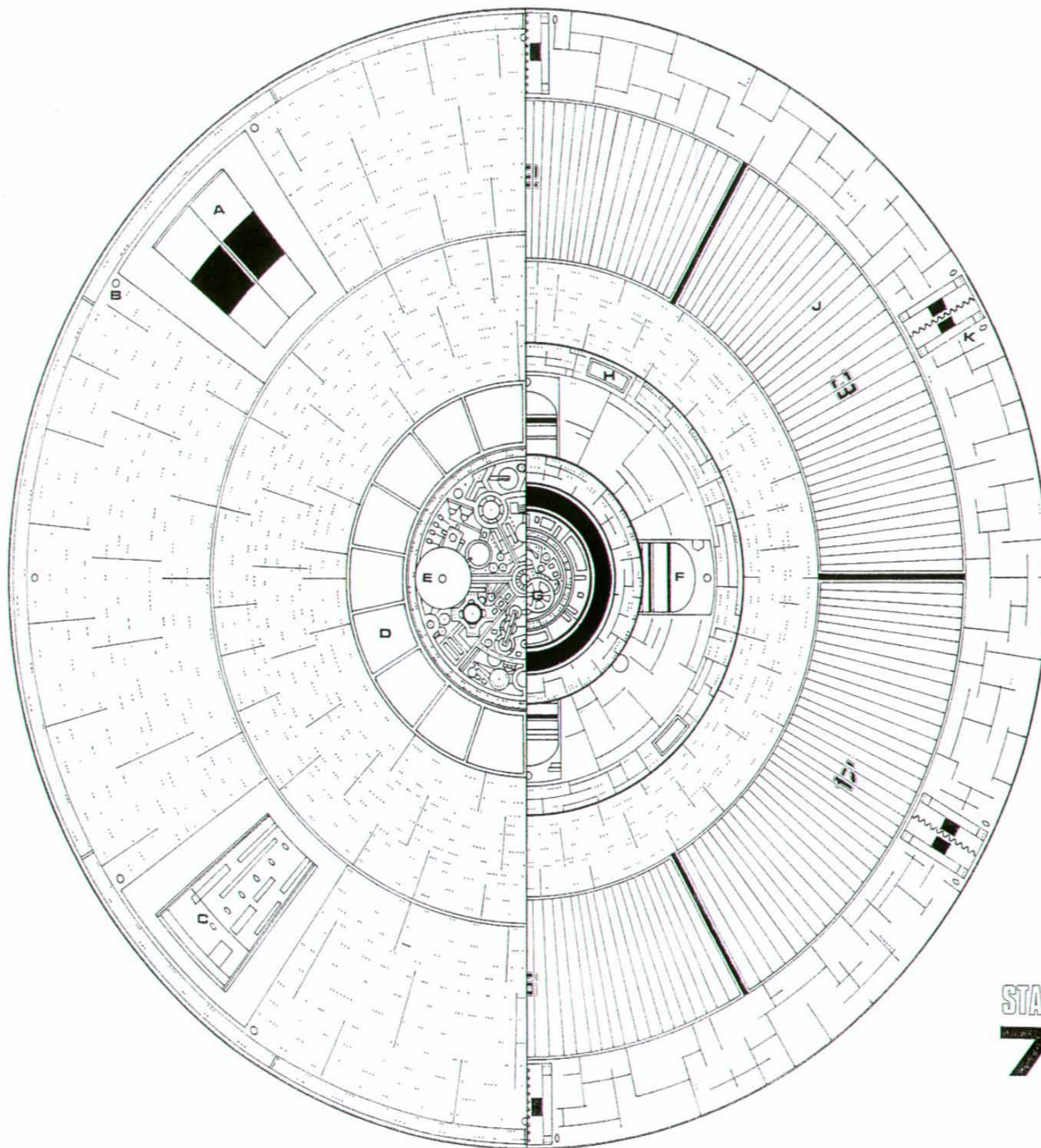
- A - MAG-LEV TRACK
- B - SUPPORT PYLON
- C - TRANSPARENT ALUMINUM PANELS
- D - ELEVATOR CAR
- E - ENTRY HATCH

STARBASE 79



STAR FLEET CORPS OF ENGINEERS

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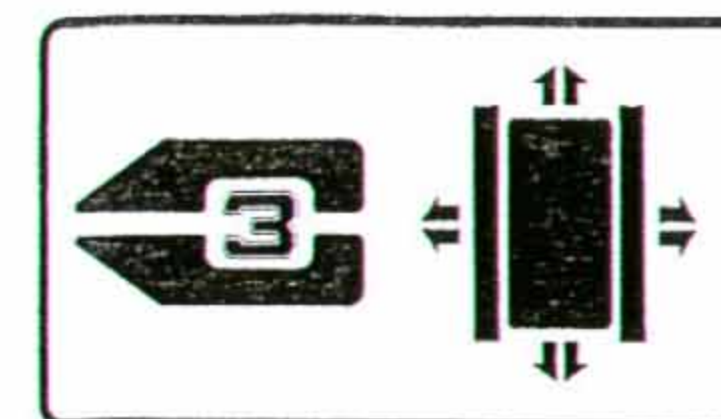


KEY TO TOP VIEW

- A - SPACE DOOR (SHOWN IN CLOSED POSITION)
- B - TRACTOR BEAM EMITTER (TYPICAL)
- C - SPACE DOOR (SHOWN IN OPEN POSITION)
- D - SUBSPACE SIGNAL ACQUISITION GRID
- E - PRIMARY REACTOR COMPLEX

KEY TO BOTTOM VIEW

- F - WATER STORAGE, ADMINISTRATION SECTION
- G - SECONDARY REACTOR
- H - ADMINISTRATION SHUTTLEBAY (TYPICAL)
- J - SPACEDOCK RAPID EGRESS PLATES (TYPICAL)
- K - PHOTON TORPEDO LAUNCH COMPLEX (TYPICAL)



STARBASE
79



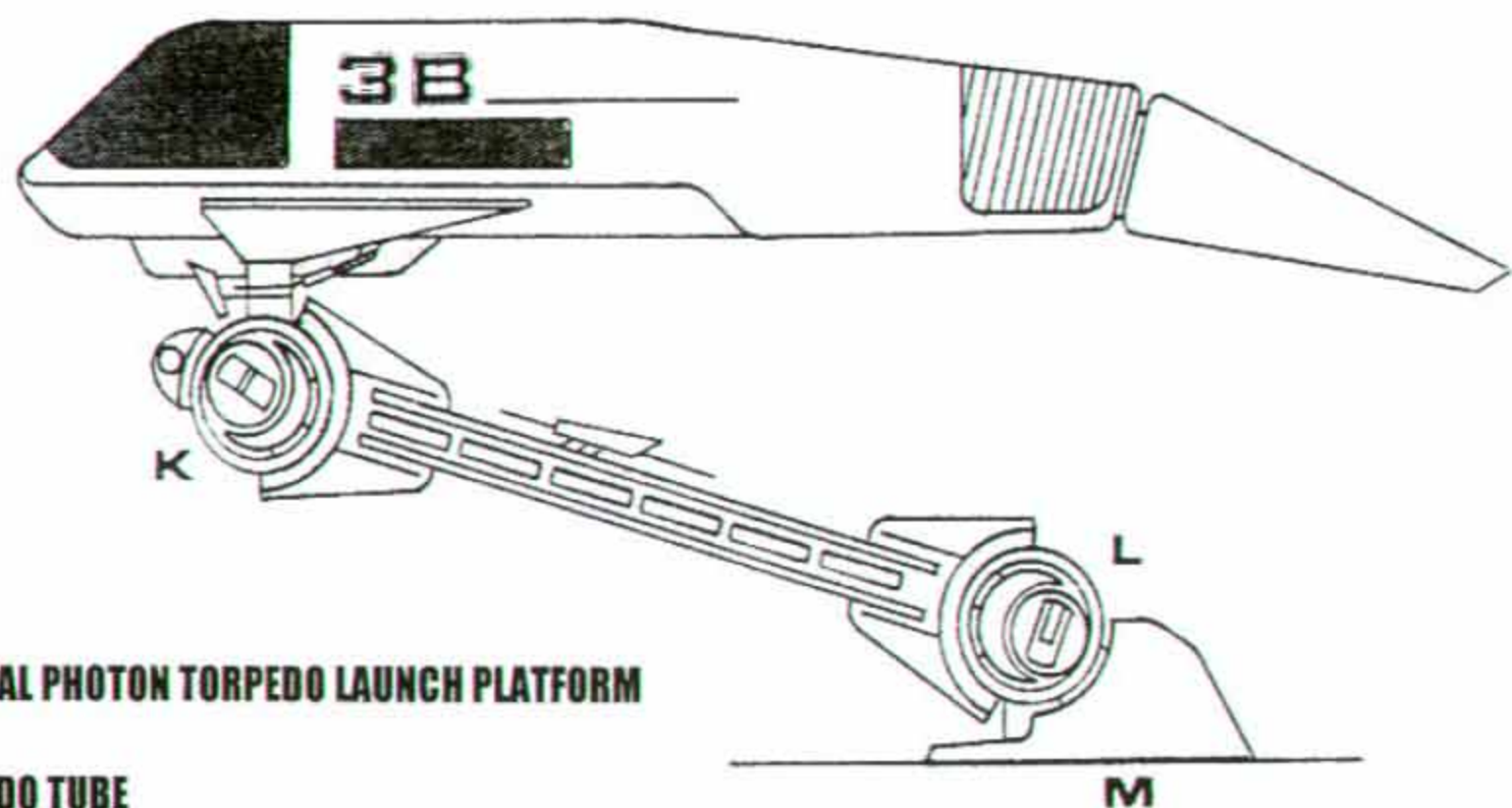
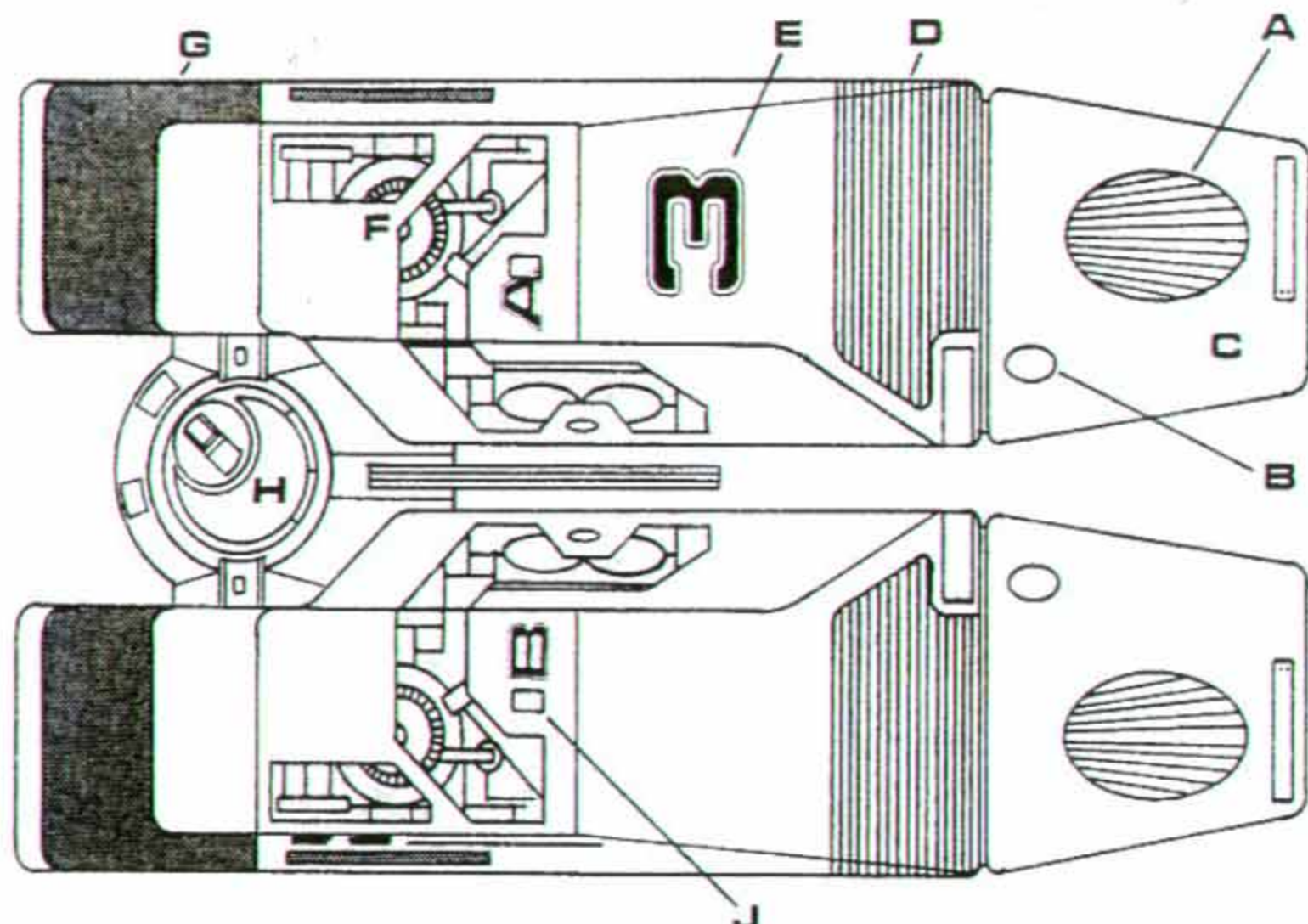
STARBASE 79

SHEET 7

DUAL PHOTON TORPEDO LAUNCH PLATFORM

THIS WEAPON IS LOCATED ALONG THE OUTSIDE LIP OF THE DRYDOCK MODULE. THERE ARE UP TO 6 LAUNCH PLATFORMS TO EACH STARBASE. EACH LAUNCH PLATFORM CAN HOLD 60 TORPEDO'S AND CAN FIRE DUAL SALVOS EVERY FIFTEEN SECONDS. ALL MARK IV, V, VI, AND VII TORPEDO'S CAN BE ACCOMMODATED.

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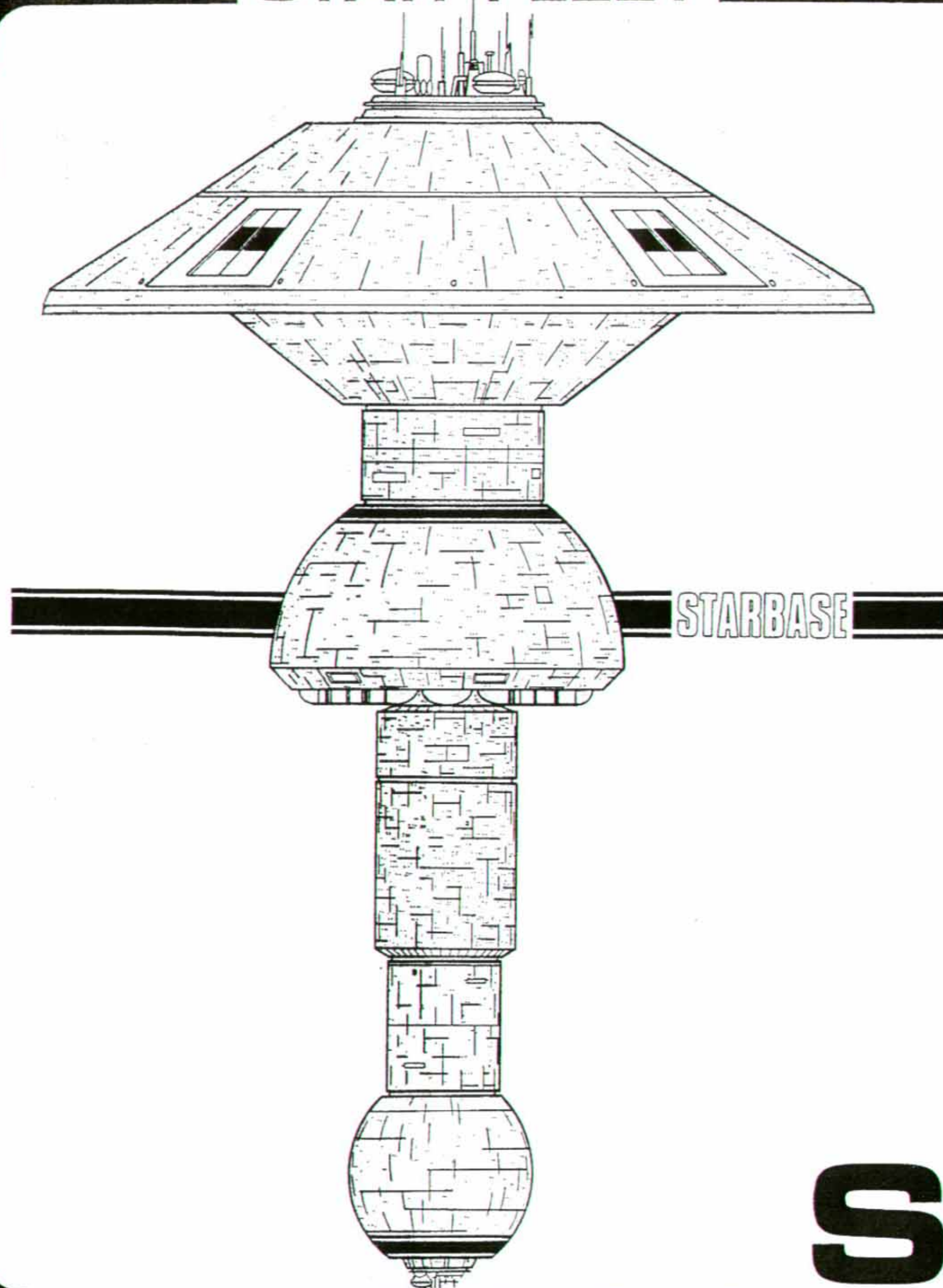


KEY TO DUAL PHOTON TORPEDO LAUNCH PLATFORM

- A - TORPEDO TUBE
- B - TARGETING SENSOR
- C - BLAST SHIELD
- D - POST-LAUNCH PURGE VENTS
- E - ORDNANCE IDENTIFICATION NUMBER
- F - TORPEDO PRIMING REACTOR
- G - EXHAUST VENTS
- H - X-AXIS GIMBAL DRIVE
- J - MANUAL LOADING HATCH
- K - Y-AXIS UPPER GIMBAL DRIVE
- L - Y-AXIS LOWER GIMBAL DRIVE
- M - DRYDOCK BAY FLOOR MOUNTING



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