



LEGEND

	SHOWER
	WASH BASIN
	TOILET
	PUMP
	GREY WATER PIPES
	BLACK WATER PIPES

NOTE:
THIS DRAWING IS FOR GUIDANCE PURPOSES ONLY.
SYSTEM DETAILED ENGINEERING DESIGN AND ACTUAL
SYSTEM REQUIREMENTS ARE THE RESPONSIBILITY OF
THE CONTRACTOR.

CLIENT - **german & milne inc.**
Marine Transportation Consultants
Naval Architects
Ottawa

PROJECT - **CCGS "GRIFON" MODERNIZATION**

TITLE - **BLACK AND GREY WATER SYSTEMS**

GERMAN & MILNE INC.
MAR - 7 2009
SCALE: 1/16"
DATE: NOV. 1989
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CHECKED BY: M.J.

DWG. NO. 7396-817-01 REV. A SHEET NO. 1 OF 1 AO

- NOTES:
1. SUFFICIENT DECK DRAINS SHALL BE PROVIDED AND LOCATED TO PREVENT WATER FROM STANDING ON DECKS UNDER NORMAL STATIC CONDITIONS OF HEEL AND TRIM.
 2. DECK DRAINS OF NOT LESS THAN 1-1/2" IS SHALL BE LOCATED AT ALL INTERSECTIONS, CORNERS, SPACES, INCLUDING GALVANIZED STEEL, WOODWORK, PAINTED, WAREHOUSES, ETC.
 3. OUTLETS FROM ALL FIXTURES, SHOWER DRAINS AND TRAPS SHALL BE FITTED WITH DEEP "P" TRAPS.
 4. SINKS AND FOUNTAINS SHALL HAVE 3/4" IPS WEIRS TO ATOMPHRE ABOVE WEATHER DECK. WEIRS MAY BE COMBINED TO COMMON HEADS ABOVE THE HIGHEST FIXTURE.
 5. WIDE SWEEP BENDS SHALL BE USED IN PREFERENCE TO ELLS.
 6. DRAIN BRANCHES SHALL ENTER HEADERS BY WAY OF "Y" FITTINGS.
 7. CLEANOUTS SHALL BE ARRANGED AT THE END OF ALL STRAIGHT RUNS, AT ALL BENDS GREATER THAN 90 DEGREES, AND WHEREVER NECESSARY TO ALLOW FULL COVERAGE OF SYSTEM.
 8. ALL LINES SHALL BE PITCHED SUFFICIENTLY FOR FLOW AND ATTRAUGHTS TO PROVIDE PROPER DRAINAGE. RUNS SHALL DRAIN FOR AND AFT WHEREVER PRACTICABLE.
 9. STORM VALVES TO BE RETAINED WHEREVER PRACTICABLE.
 10. ALL PIPES PASSING THROUGH ALUMINUM DECKS OR BULKHEADS TO BE ISOLATED WITH NEOPRENE SLEEVES AND GASKETS.
 11. SPECIAL CARE TO BE TAKEN WHERE PIPES PASS THROUGH FIRE PROOF BULKHEADS TO ENSURE INTACTNESS OF BULKHEADS.
 12. GREASE TRAP TO BE PROVIDED WITH ISOLATION AND BYPASS VALVES FOR CLEANING.
 13. FOR OUTSIDE SCOPERS AND DECK DRAINS SEE DRAWING NO. 604-408-13 EXCEPT FOR PROPOSED SCOPERS ON DECK 15. SCOPERS EXCEPT ARE NOT TO BE USED FOR WASHING VEHICLES.
 14. SCOPERS FROM UPPER AND LOWER DECKS AND CONDENSATE TRAPS ARE TO BE LED TO THE GREY WATER TANK.
 15. CONNECTIONS FOR THE FACILITY OF LATER INSTALLATION OF A WASH MACHINE SHALL BE PROVIDED.
 16. FOR BLACK WATER VACUUM COLLECTION SYSTEM PIPING DETAILS REFER TO M.I.L. DRAWING NO. CCB-228-122-36 (SEWER SYSTEM).
 17. DECK & EQUIPMENT DRAINS IN FOOD PREPARATION AREAS SHALL BE TRAPPED ON HANG BUILT IN WATER SEALS.
 18. SCOPERS DRAINS FROM REFRIGERANT SERVICES SHALL BE PROVIDED WITH PLEAS DISCHARGES. EVAPORATION DRAINS SHALL BE TRAPPED. COLD FROM DRAINS SHALL BE HEATED.