

## AIR CONDITIONING UNITS

There are Eight (8) separate Air Conditioning Units on the ship. Seven (7) package units (Four (4) Trane and Three (3) Carrier) are installed in existing compartments or structures about the ship. One (1) Carrier unit is installed in a specially built house at the after end of the superstructure on the port side of the Boat Deck (01 Level) at approx frames #140-145. This unit is a complete secondary chiller system with a Carrier 5H80 compressor, in duct steam heaters, in duct electric heater, chiller circulating system and refrigerant expansion and condensing units all located in the same compartment. The salt water circulating system is served by a dedicated pump located in the after engine room on the lower level on the stbd side at approx. frs #140-145. The Johnson Controls for this system has its own dedicated Air Compressor which is located in a Fan Room on the 2<sup>nd</sup> Deck (A Level) at approx fr. #144 C/L

Units and Locations as follows

### INFANTS PLAY ROOM

Package unit is located in stairwell at approx. fr. #86 C/L at the 1<sup>st</sup> Deck level (Promenade/Main Deck)

MSGR Carrier 50-R-6, Model 6D44, 4 cyl., 5 HP, 1750 RPM,  
F-12, Full charge 9.25#, 1/2 HP Fan, Hermetically  
sealed unit, 2 filters

### CHILDREN'S PLAY ROOM

Package unit is located in Hatch Trunk at approx. fr. #157 C/L at the 2<sup>nd</sup> Deck level (A Level)

MSGR Carrier 50-K-12-B-309, Model 6-D-68, 6 cyl, 10 HP, 10 Ton  
F-12, Full charge 17#, 2 HP Fan, 4 filters

continued

(continued)

## AIR CONDITIONING UNITS

### TROOP BERTHING COMPARTMENT, #2 HOLD

Package unit is located in the berthing compartment on the 4<sup>th</sup> Deck (C Level) against the forward Watertight bulkhead, frame #41 C/L  
Mfg'r Trane, 10 Ton, SUW-1004-A, Type 672-13-A, 2 compressors  
2.3 HP Fan, F-12, 15<sup>#</sup> Full charge, 440V, AC. 3 filters

### TROOP RECREATION ROOM

Package unit is located in the Recreation Room on the 4<sup>th</sup> Deck (C Level) at the after side of the Projection Room approx frames #121-125  
Mfg'r Trane 10 Ton, SUW-1004-A, Type 672-13-A, 2 compressors  
2.3 HP Fan, F-12, 15<sup>#</sup> Full charge, 440V, AC

### TROOP BERTHING COMPARTMENT, #5 HOLD.

Two (2) Package units are located in the Berthing Compartment on the 4<sup>th</sup> Deck (D Level) against the after Non-Watertight bulkhead, frame #158, One unit at each side of the compartment

Mfg'r Trane, 7 1/2 Ton, SUW-754-A, Type 167-18-A, 1 compressor  
1.5 HP Fan, F-12, 8.75<sup>#</sup> Full Charge, 440V, AC 4, filters

### CHAPEL/THEATER.

Package unit is located inside the Fan House on the 01 Deck (Boat Deck) at approx. frame #190, atop the Theater located in the After house.

Mfg'r Carrier, 50-K-12-B-309, Model 6-D-68, 6 cyl., 10 HP, 10 Ton  
F-12, Full charge 17<sup>#</sup>, 2 HP Fan, 4 filters

All of the above package units have salt water C.W. piped to them with cut out valves and regulators in lines.

continued

(continued)

## AIR CONDITIONING UNITS

### HOSPITAL AIRCONDITIONER SYSTEM

The entire refrigerating, heating, cooling, ventilators and chiller circulating system is located in the Fan House located at the after end of the superstructure at the port side of the Boat Deck (01 level) approx frames #140-145.

Mfg<sup>r</sup> Compressor - Carrier 5H80, 8 cyl, 1750 RPM

43.4 Ton, Stroke  $2\frac{3}{4}$ ", Bore  $3\frac{1}{4}$ "

Condenser Carrier, Model 9W110-119, 16" OD,  $6'9\frac{9}{16}$ " long  
196 tubes, 5' long, 2-Pass, 462 sq. ft.

Compressor Motor General Electric, 50 HP, Model 5K4365-B21

Type K, 440V AC, 1770 RPM

Chiller Circulating Pump

Motor Louis Allis, 5 HP, 3600 RPM, Type 1968

440V, AC

Fan Rm. #1 Bridge Deck, Fr #103C

Systems SS-BT-103S & SS-BT-103P

No Heaters or Thermostats

Fan Rm #2 Bridge Deck Fr #129P

System SS-BT-129P Htr #2 & Thermostat

Fan Rm #3 Bridge Deck, Fr #129S

System SS-BT-127S Htr #1 & Thermostat

Fan Room #4 Bridge Deck Fr #133C

Systems SS-BT-133S

SS-BT-133CL, Htr #37 & Thermostat

SS-BT-134P

SS-BT-139S

Exh NB-116P

Exh IVB-116S

Exh BT-140P

Fan Room #5 Boat Deck, Fr #40C

Systems SS-BT-39S Htr #5 & Thermostat

SS-BT-40P Htr #6, Thermo "C" deck 57P

Exh BT-41P

SS-BT-37C Htr #4, Thermo "C" deck 30P

SS-BT-37P Htr #3 & Thermostat

Fan Rm #6 Boat Deck, Fr #87C

Systems SS-BT-87S, Htr #7 & Thermostat

SS-BT-88P, Htr #8 & Thermostat

Exh BT-89P

Fan Rm #7 Boat Deck, Fr #133C

Systems SS-133-S, Htr #9 & Thermostat

Exh BT-133P

Fan Rm #8 Boat Deck, Fr #147P

Systems SS-BT-147-6, Htr #11 & Thermostat

SS-BT-147-8P

Fan Rm. #9 Boat deck, Fr #147S

SS-BT-147-1-S, Htr #12 & Thermostat

Fan Rm #10 Boat deck, Fr #197C

SS-BT-197C, Htr #13 & Thermostat

Fan Rm #11, Prom Deck, Fr #58P

Exh Prom 59-2P

Exh Prom 59-4P

Exh Prom 61-P

Fan Rm #12, Prom Deck, Fr #96S

SS Prom 95-1-S, Htrs #12 & #14 & Thermostats

SS Prom 95-3-S, Htr & Thermostat

Fan Rm #13 Prom Deck, Fr #181P

Exh Prom 181-P

Outside Vent motor S.S. Prom-170-P

Htr #38 & Thermostat in Htr Rm "A" deck 170P

Fan Rm #14 Prom Deck Fr #181S

SS-C-181-S Htr #36 & Thermostat

Fan Rm #15 Prom Deck Fr #206C

Exh Prom 209-P

Exh Prom 209-S

SS Prom-210-P, Htr & Thermostat

SS Prom-210-S, Htr & Thermostat

Exh Prom 208-C

Fan Rm #15A "A" Deck (2nd Deck) Fr 75P

SS-A-74-P, Htr #21 & Thermostat

SS-A-74-S, Htr #22, Thermo in Prop comp 3C

Exh A-75-S

SS-A-76-P, Htr #23 & Thermostat

Exh-A-77P

Exh-A-77S

Continued

Fan Rm #16 "A" level (2<sup>nd</sup> Deck) Fr 121C

Systems SS-A-121-P, Hfr #24 & Thermostat

SS-A-122-P, Hfr #25 & Thermostat

SS-A-124-P, Hfr #26 & Thermostat

Exh BT-138-P

Exh A-124-S

Fan Rm #17 "A" level (2<sup>nd</sup> Deck) Frame #144-C

Systems SS-A-144-P

SS-A-145-S - Hfr #27 is in air intake  
chamber Boot Dk Fr #143-S

Thermostat in Fan Rm #17  
Remote Thermo Air Chamber BT Dk 143S

SS-A-147-P, Hfr #29 & Thermostat

SS-A-146-P, Hfr #28 is located in air intake  
chamber Boot Deck Fr #143-P

Thermostat in Fan Rm #17

SS-A-148-S, Hfr #30 & Thermostat

Remote Thermo in #9 Fan Rm

Exh BT-147-P

Fan Rm #18 "A" level (2<sup>nd</sup> Deck) Fr #170-S

Systems SS-A-169-S, Hfr #31 is on ASI Boot dk Fr 172C  
Thermostat is in Fan Rm

Exh-A-170-S

Fan Rm #19 "A" level (2<sup>nd</sup> deck) Fr #170P

Systems Exh-A-169-P

SS-A-171-P, Hfr #32 in Air Cham, BT dk 172C

Thermo "C" deck Fr 173P

Remote Thermo Air Intake BT dk 172C

Exh-Prom-166-P

Exh-Prom-166-S

Exh ~~BT~~ -167P

Fan Rm #20 "A" level (2<sup>nd</sup> Deck) Fr #190-S

Systems SS-A-190-S, Hfr #34 & Thermostat

SS-A-190-P, Hfr #33 & Thermostat

Fan Rm #21, "B" level (3<sup>rd</sup> Deck) Fr #61C

Exh-B-61-P

Fan Rm #22 "C" level (4<sup>th</sup> Deck) Fr #156-S

SS-C-156-S Hfr #35 in air intake chamber on  
BT Dk ASF Frame 157P  
Thermo on "C" level Fr #157S

Fan Rm #23 "C" level (4<sup>th</sup> Deck) Fr #164-S

Exh-C-164-S

Fan Rm #24 "C" level (4<sup>th</sup> deck, Fr 181-P

Fan Rm #25 "C" level (4<sup>th</sup> deck) Fr 181-S

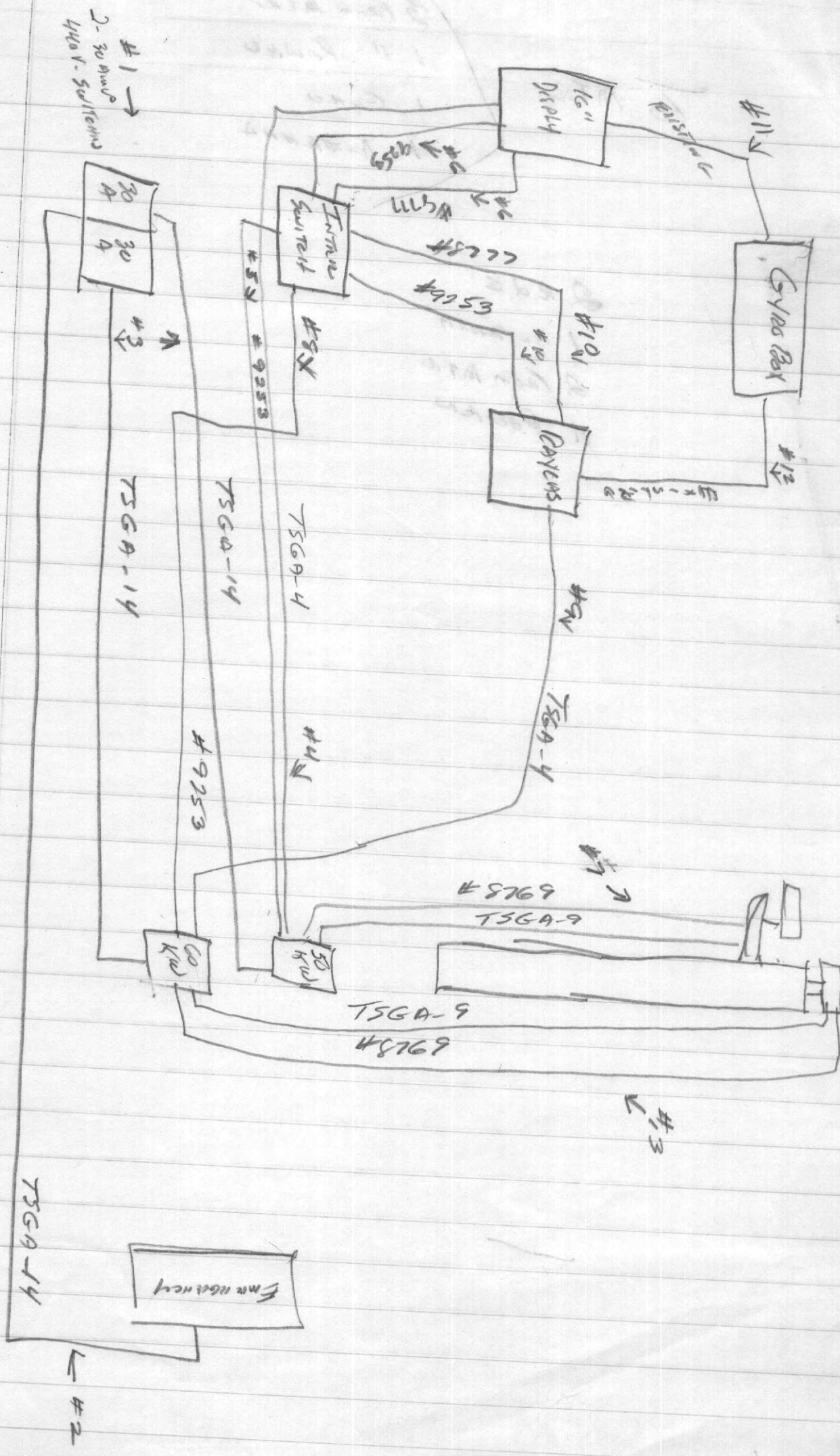
SS-C-181-S, Hfr #36 is in #14 Fan Room  
Thermo "C" Dk Fr #185C  
Thermo in #14 Fan Rm

2

# Sultan Waterlight Bulkheads

From MSTs Plan #T-API20-58801-1451545

|            |                                  |                   |
|------------|----------------------------------|-------------------|
| Enter      | Forepeak Spacer (1)              | Bow - fr #18      |
| Enter      | #1 Hold & D.B.TKS. (1)           | fr #18 - fr #42   |
| Enter Port | #2 Hold & D.B.TKS. (2)           | fr #42 - fr #60   |
| Enter C/L  | #3 Hold & D.B.TKS. (3)           | fr #60 - fr #78   |
| Enter Stbd | REEFER SPACES & #4 D.B.TKS (3)   | fr #78 - fr #98   |
| Enter Port | FWD. MACH SPACE & #5 D.B.TKS (3) | fr #98 - fr #112  |
| Enter C/L  | & #6 D.B.TKS (3)                 | fr #112 - fr #128 |
| Enter Stbd | AFT MACH SPACE & #7 D.B.TKS (3)  | fr #128 - fr #142 |
| Enter Port | #5 HOLD & #8 D.B.TKS (3)         | fr #142 - fr #158 |
| Enter Stbd | MOTOR ROOMS & #9 D.B.TKS (2)     | fr #158 - fr #172 |
| Enter      | D.P. TK. #21 C/L (1)             | fr #174 - fr #182 |
| Enter      | D.P. TK #22 C/L (1)              | fr #182 - fr #195 |
| Enter      | D.P. TK. #23 C/L (1)             | fr #195 - fr #213 |
| Enter      | AFTER PEAK (1)                   | fr #213 fr #231   |
|            | AFTER Peak Spaces                | fr #213 - Stern   |



To MTR

3 From MTR

1 H POWHU

1 GYRO

1 ANTENNA

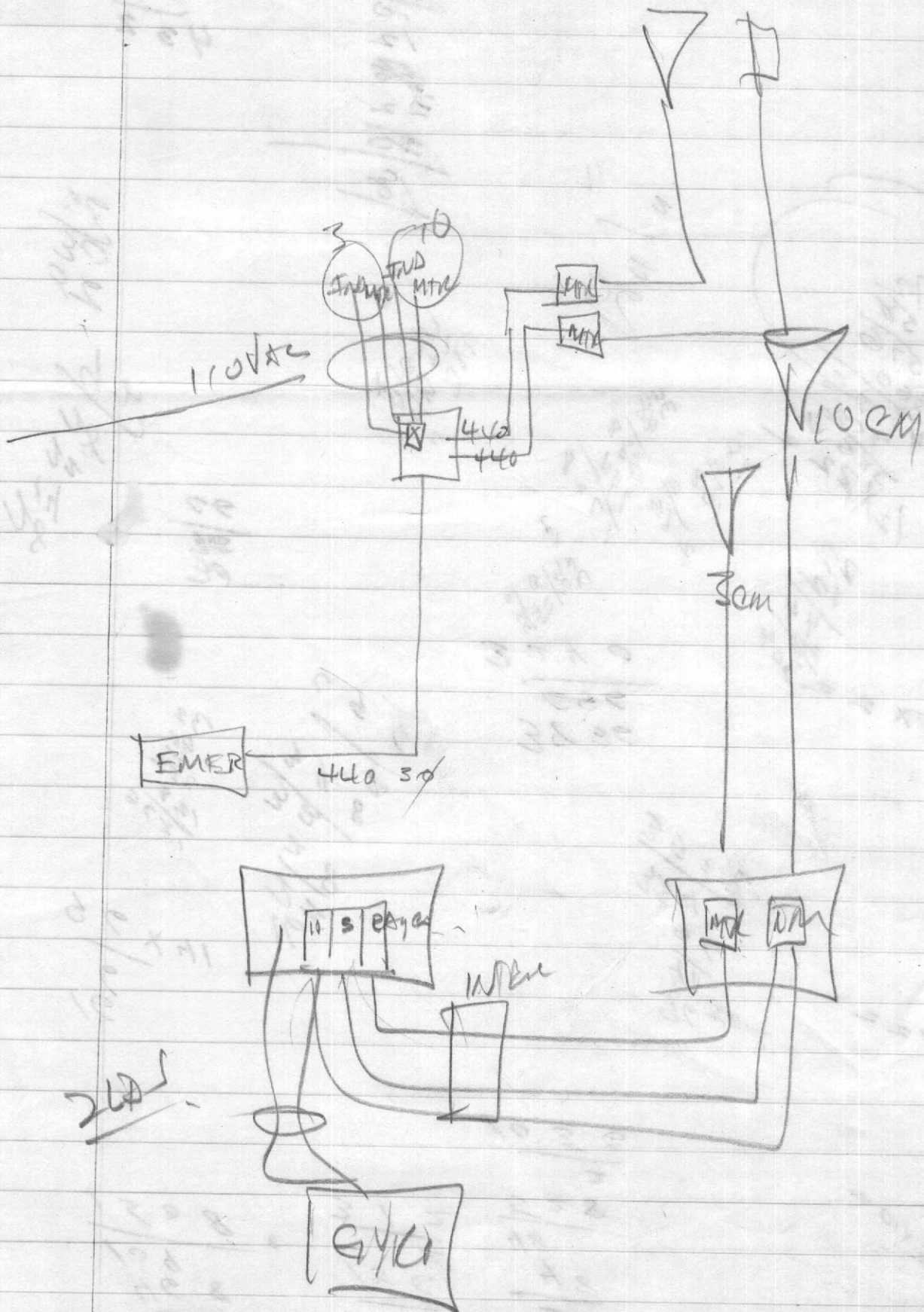
2 RDE

1 ANTENNA

2 From MTR

1 POWHU

TSBA 4



$$\begin{array}{r} 120 \\ 760 \end{array}$$

$$\begin{array}{r} 152 \\ 140 \\ 44 \\ \hline 332 \end{array}$$

$$\begin{array}{r} 26 \\ 12 \\ \hline 52 \\ 26 \\ \hline 312 \end{array}$$

$$\begin{array}{r} 100 \\ 100 \\ 16 \\ 20 \\ \hline 20 \\ 12 \\ 56 \\ 22 \\ \hline 56 \\ 18 \end{array}$$

$$\begin{array}{r} 256 \\ 112 \\ 64 \\ \hline 432 \end{array}$$

$$\begin{array}{r} 176 \\ 20 \\ \hline 1760 \\ 2 \\ \hline 3520 \end{array}$$

$$\begin{array}{r} 12 \\ 58 \\ \hline 576 \\ 400 \\ \hline 41246 \\ 386 \\ \hline 12 \times 22 = \end{array}$$

$$\begin{array}{r} 11 \\ 2 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 94 \times \\ 44 \\ \hline 376 \\ 376 \\ \hline 4136 \end{array}$$

$$\begin{array}{r} 216 \\ 228 \\ \hline 530 \\ 2494 \end{array}$$

$$\begin{array}{r} 98 \\ 64 \\ 29 \end{array}$$

$$\begin{array}{r} 26 \\ 22 \\ 22 \\ \hline 118 \end{array}$$

$$\begin{array}{r} 97 \\ 96 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 48 \\ 10 \\ \hline 480 \times 2 = 960 \end{array}$$

$$\begin{array}{r} 3240 \\ 996 \\ \hline 3936 \end{array}$$

$$\begin{array}{r} 16 \\ 11 \\ 8 \\ \hline 168 \end{array}$$

$$\begin{array}{r} 32 \\ 44 \\ 22 \\ \hline 124 \end{array}$$

$$\begin{array}{r} 16 \\ 6 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 996 \\ 154 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 14 \times 96 \\ 96 \\ \hline 16 \end{array}$$

$$100 \times 4 \times 2 =$$

$$\begin{array}{r} 16 \times 4 \\ 16 \\ \hline 104 \end{array}$$

$$\begin{array}{r} 1056 \\ 2 \\ \hline 528 \\ 48 \\ \hline 48 \\ 22 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 312 \\ 2 \\ \hline 156 \\ 3 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 1508 \\ 104 \\ \hline 468 \\ 29 \\ \hline 52 \end{array}$$