MAST and RIGGING SPECIFICATIONS

MOMENTS OF INERTIA FOR GUIDANCE IN SELECTION OF A SUITABLE MAST SECTION

MAST PANEL	Itt:	III :
LOWER PANEL	5.60 IN^4	11.25 IN^4
SECOND PANEL	4.67 IN^4	9.10 IN^4
UPPER PANEL	4.67 IN^4 (MID PANEL)	7.35 IN^4 (@ BOTTOM of PANEL)

MAST STIFFENING AND TAPER DETAILS TO BE CONFIRMED WITH DESIGNER PRIOR TO COMMENCEMENT OF WORK

STANDING RIGGING

ITEM	REQUIRED MINIMUM BREAKING STRENGTH (Nitronic 50)
FORESTAY	9450 lbs
TOPMAST BACKSTAY	1000 lbs (ROD), 1300 lbs (ARAMID)
RUNNING BACKSTAY	4980 lbs (ROD), 6600 lbs (ARAMID)
CHECKSTAY	1490 lbs (1*19), 2240 lbs (ARAMID)
RUNNER STROP	6470 lbs (1*19), 9700 lbs (ARAMID)
D1	8320 lbs
V1	11280 lbs
D2	4070 lbs
V2/D3	7400 lbs

TOPMAST TAPER & RUNNER TANG PLACEMENT DETAIL

SCALE 1:10

MINIMUM F&A DIMENSION:
MINIMUM TRANSVERSE DIMENSION:

UPPER TAPER MEASUREMENT @ 15.6000 M ABOVE SHEER (TOP of EXTRUSION)

15.450 M ABOVE SHEER (TOP of "P")

CLASS RULES REQUIRE TAPER TO BE ESSENTIALLY STRAIGHT or CONVEX

LOWEST ALLOWED EXTENT OF TAPER @ 13.360 M ABOVE SHEER

13.310 M ABOVE SHEER (TOP of "IM")

SECTION TO BE FULL SIZE

90mm

FORESTAY CENTERLINE (w/Mast Straight)

RUNNER CENTERLINE (w/Mast Straight)

25.70°

15.90°

LOCATE RUNNER FITTING BEARING POINT ALONG RUNNER CENTERLINE

PROVIDE DETAILS OF TANG LAYOUT AT MOUNTS FOR DESIGNER's REVIEW

1.050

1.705

1.705

1.255

155mm

TOP of EXTRUSION

TOP of "P" 15.450

D3 CENTERLINE INTERSECTS MAST CENTERLINE 13.730

TOP of "IM" 13.310

0.740

SPREADER CENTERLINE INTERSECTS MAST CENTERLINE 9.425

HIGHEST ALLOWED LOCATION of CHECKSTAY TANG 9.410

SPINNAKER POLE TOPPING LIFT SHEAVE 9.200

HIGHEST ALLOWED POSITION of CHECKSTAY ADJUSTER SHEAVE (MEASURED to TOP of SHEAVE) 8.410

LOWEST ALLOWED LOCATION of CHECKSTAY TANG 7.970

LOWEST ALLOWED POSITION of CHECKSTAY ADJUSTER SHEAVE (MEASURED to TOP of SHEAVE) 6.970

1.080

SPREADER CENTERLINE INTERSECTS MAST CENTERLINE 5.100

TOP of SPINNAKER POLE TRACK 3.950

TOP of BOOM 1.820

CABIN TOP 0.530

SHEER at FORWARD FACE OF MAST 0.000

V1 1/2 WIDTH: 0.980

APPROX. TOP of MAST STEP (Confirm on Yacht) −1.220

P = 13.630 M

IM = 13.310 M

SPREADER BASES ANGLED DOWN 10°

MAINSAIL LEECH LENGTH: 14.625 M

E = 5.020 M

150% LP

98% LP

SL = 13.160 M SMW = 6.910 (Minimum Dimensions)

SPL = 3.840 M

J = 3.840 M

Stn 10 Stn 9 Stn 8 Stn 7 Stn 6 Stn 5 Stn 4 Stn 3 Stn 2 Stn 1 Stn 0

0.775 (3.5°) MAST RAKE IN MEASUREMENT TRIM (Level to D.W.L.)
MEASURED FROM AFT FACE OF MAST AT TOP OF "IM" TO THE AFT FACE OF MAST AT CABIN TOP (W/Straight Mast!)

(NOTE: 62mm of FORESTAY LENGTH CHANGES RAKE 1 DEGREE)

REVISIONS
A: 10-27-93: BUG: CLASS EMBLEM ADDED TO BOOM, SAILPLAN LOGO MOVED.
B: 11-30-93: BUG: CHECKSTAY, AND CHECKSTAY ADJUSTER POSITIONS REVISED TO REFLECT RULE

THE BUILDER MUST CHECK DIMENSIONS AND CONTENT GIVEN ON THE DRAWING AND ADVISE THE DESIGNER OF ANY DISCREPANCIES BEFORE COMMENCING CONSTRUCTION.
THIS DRAWING MUST NOT BE REPRODUCED OR USED FOR ANY PURPOSE, OTHER THAN IN CONJUNCTION WITH THE BOAT OR DESIGN FOR WHICH IT WAS DRAWN, WITHOUT THE DESIGNER'S WRITTEN CONSENT.
THE COST OF THESE PLANS INCLUDES FEES FOR ONE BOAT ONLY FOR PLANS WITHOUT THE DESIGNER'S WRITTEN CONSENT. ANY ADDITIONAL BOATS SHALL BE BUILT FROM THESE PLANS AT A FEE EQUAL TO 50% OF THE ORIGINAL DESIGN FEE.

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FOR- MUMM 36 ONE DESIGN
FARR INTERNATIONAL Inc.

SCALE: 1=25 DESIGN: 299
TITLE: SAILPLAN AND RIG SPECS
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