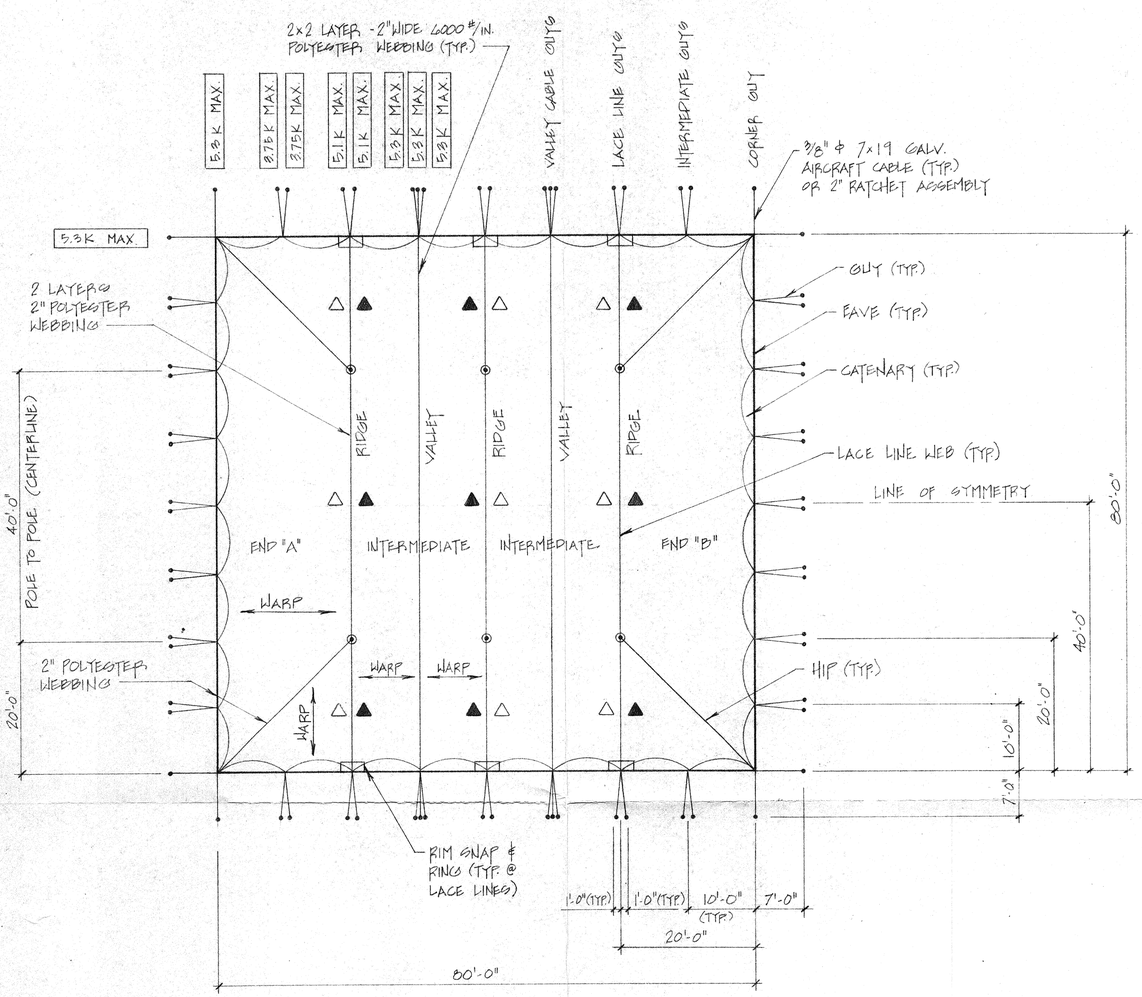
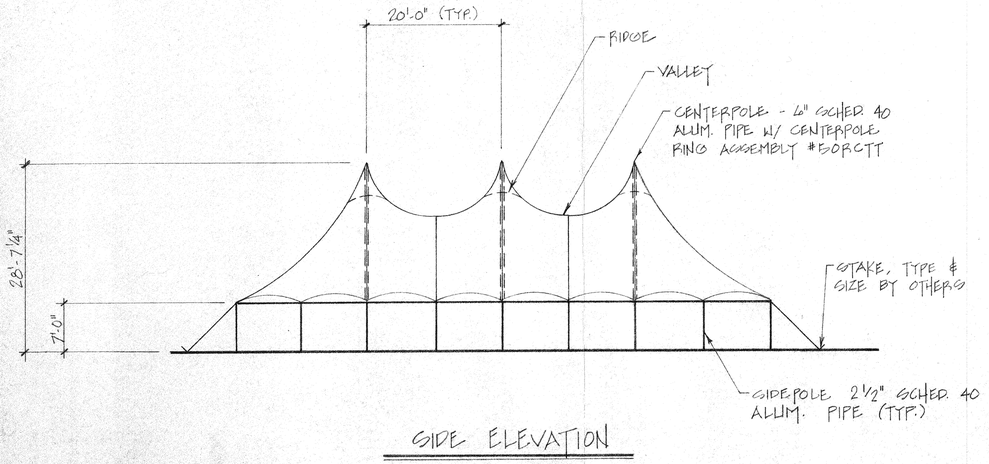
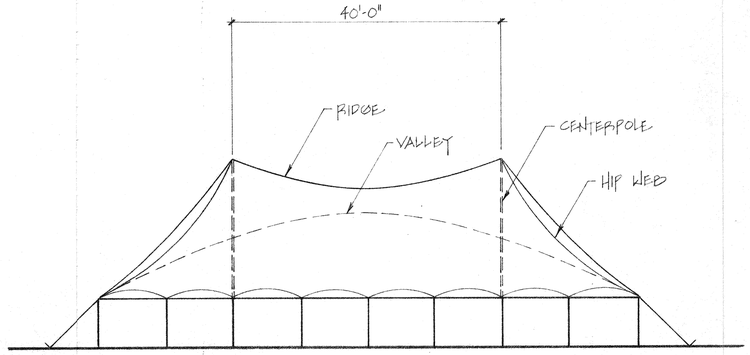


PLAN

△ SIGNIFIES EDGE W/ GROMMETS ONLY
▲ SIGNIFIES EDGE W/ GROMMETS & ROPE LACING



SIDE ELEVATION



END ELEVATION

CHK'D: 1-19-05 HED

DESIGN

1. THIS DRAWING CONVEYS IN PRINCIPLE, THE ENGINEERING CRITERIA USED IN THE DESIGN OF THE 80 FT. WIDE ARMBRUSTER EUROTENT POLE TENT. WHEN USED IN REVIEW OR APPROVAL, THIS DRAWING SHALL BE ACCOMPANIED BY THE MANUFACTURER'S ASSURANCE THAT THE CONSTRUCTION DETAILS USED IN THE ACTUAL MANUFACTURE OF THIS TENT ARE THOSE, WHICH HAVE BEEN APPROVED, IN ADVANCE BY THIS ENGINEER.

THE ADEQUACY AND APPROPRIATENESS OF THE ENGINEERING CRITERIA SELECTED FOR THIS STRUCTURE SHOULD BE REVIEWED FOR EACH SITE AND INSTALLATION, BASED ON LOCAL CLIMATE AND WIND CONDITIONS, GEOGRAPHICAL LOCATION, EXPOSURE, DURATION OF INSTALLATION, OCCUPANCY, AND CODE REQUIREMENTS.

2. THIS TENT HAS BEEN DESIGNED FOR 70 MPH WIND, EXPOSURE "C". EXPOSURE "C" IS TAKEN AS THAT DEFINED IN ASCE 7-93, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", USING CORRESPONDING GUST RESPONSE FACTORS AND EXPOSURE FACTORS. THIS IS DEFINED AS "OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS HAVING HEIGHTS GENERALLY LESS THAN 30 FT (9.1 M). THIS CATEGORY INCLUDES FLAT OPEN COUNTRY AND GRASSLANDS".

3. STAKING OF THIS TENT IS NOT PART OF THIS DESIGN INASMUCH AS EACH SITE IS UNIQUE AS TO GROUND CONDITIONS, EXPOSURE, ETC. THIS DESIGN DOES PROVIDE MAX. GUY ROPE LOADS; NOTE THAT THESE ARE ACTUAL, UN-FACTORED LOADS.

4. IT IS ASSUMED THAT THIS TENT IN INSTALLED AT-GRADE ON A HORIZONTAL GROUND PLANE, ON WELL-DRAINED SOIL.

5. IT IS ASSUMED THAT THIS TENT WILL HAVE AN OCCUPANT LOAD OF FEWER THAN 300 PERSONS AND BE INSTALLED FARTHER THAN 100 MILES FROM A HURRICANE COASTLINE.

6. THIS TENT IS NOT DESIGNED FOR SNOW EXPOSURE.

7. THIS TENT IS NOT DESIGNED TO CARRY PONDED WATER.

8. THIS DESIGN ASSUMES NO SIDEWALLS.

9. THIS TENT IS NOT DESIGNED AS A HAVEN IN A STORM. IT SHOULD BE EVACUATED IN THE EVENT OF A STORM.

MATERIAL

1. FABRIC SHALL BE DURACOTE 6261 23 OZ/SQ. YD. VINYL LAMINATED POLYESTER.

FABRIC PANELS TO BE JOINED SHALL BE MATCHED NODE NUMBER FOR NODE NUMBER.

FABRIC SEAMS SHALL BE RF-WELDED, SIZED TO DEVELOP THE FULL STRENGTH OF THE FABRIC JOINED.

WHERE SEWN STITCHING IS REQUIRED, THREAD SHALL BE UV-RESISTANT POLYESTER, MANUFACTERED FOR THAT PURPOSE.

2. WEBBING IN VALLEY SHALL BE 2 X 2 LAYERS OF 2" WIDE POLYESTER W/6000 LB. PER INCH MIN. BREAKING STRENGTH (MAX ELONGATION AT 12000 LBS. = 18 %) MILDEW-TREATED AND UV-RESISTANT. ALL OTHER WEBBING IN FABRIC SHALL BE 2" WIDE POLYESTER W/6000 LB. PER INCH BREAKING STRENGTH (MAX ELONGATION AT BREAK = 12 %) MILDEW-TREATED AND UV-RESISTANT.

3. SIDEPOLES AND CENTER MASTS SHALL BE 6061-T6, ALUMINUM SCHEDULE 40 PIPE.

4. GUY ROPES SHALL BE 3/8" DIA. 7 X 19 GALVANIZED AIRCRAFT CABLE WITH A MIN. BREAKING STRENGTH OF 14400 LBS; OR, 2" WIDE SPANSET #10R15TSW WEBBING RATCHET ASSEMBLY W/ 3/8" SUNCOR STAINLESS QUICK LINK #50160-0010 @ ENDS. CONDITION OF WEBBING RATCHET ASSEMBLY SHALL BE INSPECTED FOR CRACKS OR OTHER DEFECTS PRIOR TO EVERY INSTALLATION. WIRE ROPE AND RATCHET ASSEMBLY SHALL BE MAINTAINED TAUT.

5. HARDWARE SHALL BE LOAD RATED. WEB PLATES SHALL BE STAINLESS STEEL.

6. STAKES ARE NOT SOLD AS A PART OF THIS PRODUCT SO AS TO EMPHASIZE THE DUTY AND THE RESPONSIBILITY OF THE INSTALLER TO CHOOSE ANCHORS OF THE APPROPRIATE NUMBER, TYPE, AND SIZE TO DEVELOP THE NECESSARY HOLDING POWER PER GUY ROPE LOAD FOR THE SITE CONDITIONS WHERE THE TENT WILL BE INSTALLED.

INSTALLATION

1. SITE SELECTION AND ANCHORING OF THIS TENT IS THE REPONSIBILITY OF THE INSTALLER.

2. EACH COMPONENT OF THIS TENT SHOULD BE INSPECTED AT THE BEGINNING OF EACH INSTALLATION; DAMAGED MATERIALS SHOULD BE REPLACED BEFORE INSTALLATION BEGINS.

3. ALL ANCHOR LOCATIONS MUST BE ACCURATELY LAID OUT.

4. BEFORE INSTALLATION IS COMPLETE, ADEQUATE TENSION MUST BE APPLIED TO THE GUYING ROPES IN ORDER TO STRETCH THE FABRIC TAUT. CORRECT PULLING OUT AND DRESSING OF THIS TENT REQUIRES DILIGENCE, PATIENCE, CONSIDERABLE SKILL, AND EXPERTISE, WHICH CAN ONLY BE OBTAINED THROUGH PROPER IN-FIELD TRAINING.

5. THIS DRAWING DOES NOT CONSTITUTE AN INSTALLATION MANUAL.

6. A VARIETY OF WEATHER AND MATERIAL FACTORS CAN RESULT IN UNEXPECTED STRUCTURAL PERFORMANCE OF THIS TENT WHILE IT IS UNATTENDED BY THE INSTALLER. THUS, THE INSTALLER SHOULD ARRANGE TO MONITOR WEATHER REPORTS AND MAKE PERIODIC INSPECTIONS AND ADJUSTMENTS TO THE TENT DURING THE COURSE OF ANY GIVEN DEPLOYMENT. THE TENT SHOULD BE VACATED IN ADVANCE OF ANY STORM WARDS.

7. TENT POLES SHALL BE FITTED WITH STEEL TUBING INSERTS (STAKED TO GROUND) WHEREVER THE TENT IS SUBJECT TO LIFTING OFF THE GROUND IN WIND.

REGISTERED PROFESSIONAL ENGINEER
BRIAN L. WARD
1-20-05
No. 1849
Exp. 9-30-05
STRUCTURAL
STATE OF CALIFORNIA

ISSUED 1-20-05

STATE OF UTAH
1-19-05
JAMES P. DOUGHERTY
E-37532
REGISTERED PROFESSIONAL ENGINEER

PLAN & ELEVATIONS

SCALE: 3/32" = 1'-0"	APPROVED BY: James Dougherty	DRAWN BY J.C.
DATE: 01-18-05		REVISED —

80' WIDE TWIN POLE EUROTENT™
PRE-ENGINEERED WIND EXPOSURE "C"

FOR: ARMBRUSTER MFG. DRAWING NUMBER 051891-1