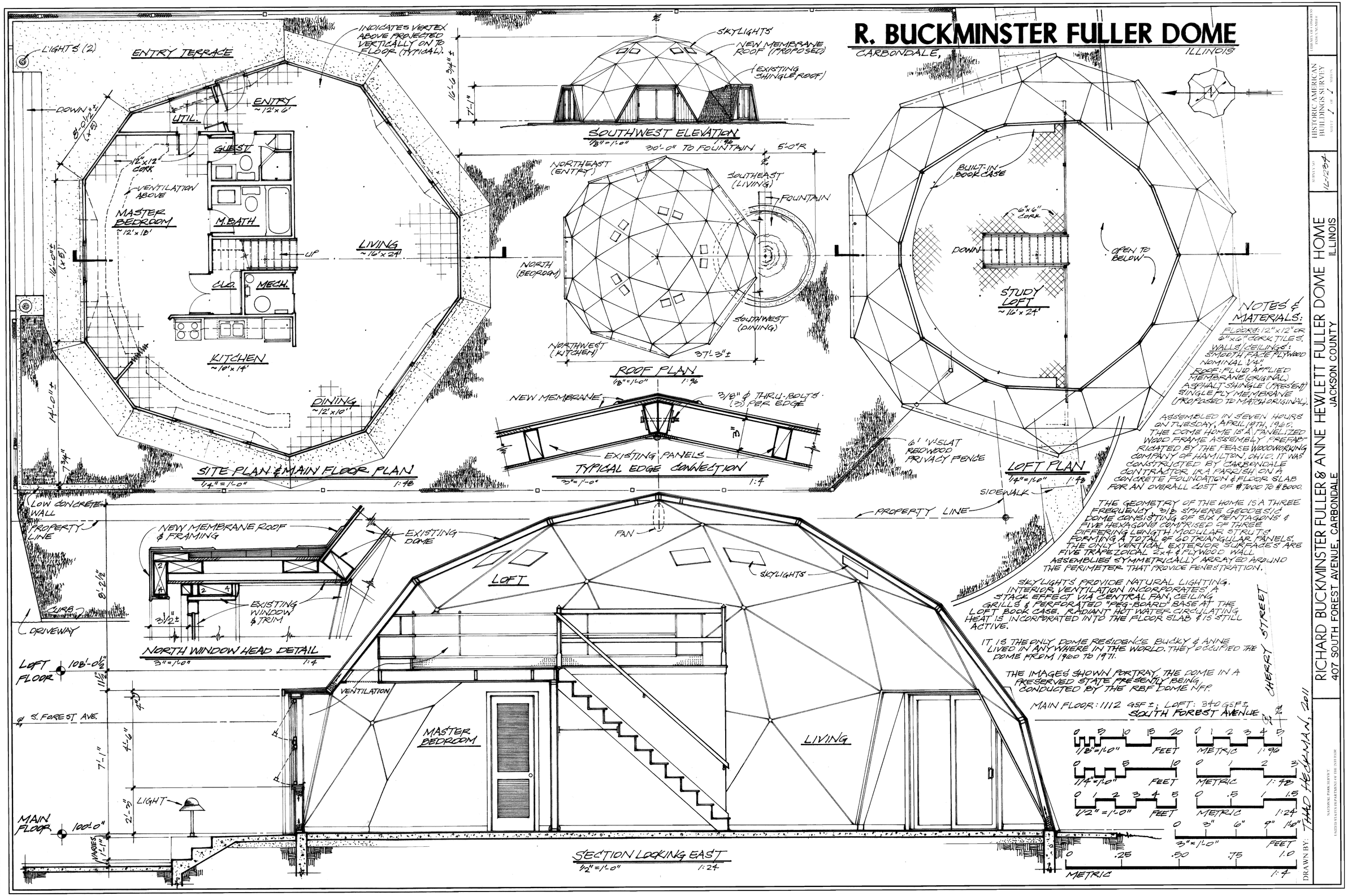
R. BUCKMINSTER FULLER DOME

CARBONDALE, ILLINOIS



NOTES & MATERIALS:

FLOORS: 12"x12" OR 6"x6" CORK TILES.
WALLS/CEILINGS: SMOOTH FACE PLYWOOD NOMINAL 1/4".
ROOF: FLUID APPLIED MEMBRANE (ORIGINAL) ASPHALT SHINGLE (PRESENT) SINGLE PLY MEMBRANE (PROPOSED TO MATCH ORIGINAL).

ASSEMBLED IN SEVEN HOURS ON TUESDAY, APRIL 18TH, 1960. THE DOME HOME IS A PANELIZED WOOD FRAME ASSEMBLY PREFABRICATED BY THE PEASE WOODWORKING COMPANY OF HAMILTON, OHIO. IT WAS CONSTRUCTED BY CARBONDALE CONTRACTOR, IRA PARISH ON A CONCRETE FOUNDATION & FLOOR SLAB FOR AN OVERALL COST OF $7000 TO $8000.

THE GEOMETRY OF THE HOME IS A THREE FREQUENCY 3/8 SPHERE GEODESIC DOME CONSISTING OF SIX PENTAGONS & FIVE HEXAGONS COMPRISED OF THREE DIFFERING LENGTH MODULAR STRUTS FORMING A TOTAL OF 60 TRIANGULAR PANELS. THE ONLY VERTICAL EXTERIOR SURFACES ARE FIVE TRAPEZOIDAL 2x4 & PLYWOOD WALL ASSEMBLIES SYMMETRICALLY ARRAYED AROUND THE PERIMETER THAT PROVIDE FENESTRATION.

SKYLIGHTS PROVIDE NATURAL LIGHTING. INTERIOR VENTILATION INCORPORATES A STACK EFFECT VIA CENTRAL FAN, CEILING GRILLS & PERFORATED "PEG-BOARD" BASE AT THE LOFT BOOK CASE. RADIANT HOT WATER CIRCULATING HEAT IS INCORPORATED INTO THE FLOOR SLAB & IS STILL ACTIVE.

IT IS THE ONLY DOME RESIDENCE BUCKY & ANNE LIVED IN ANYWHERE IN THE WORLD. THEY OCCUPIED THE DOME FROM 1960 TO 1971.

THE IMAGES SHOWN PORTRAY THE DOME IN A PRESERVED STATE PRESENTLY BEING CONDUCTED BY THE RBF DOME NFP.

MAIN FLOOR: 1112 GSF ±; LOFT: 340 GSF ±

DRAWN BY: THEO HECKMAN, 2011

HISTORIC AMERICAN BUILDINGS SURVEY

RICHARD BUCKMINSTER FULLER & ANNE HEWLETT FULLER DOME HOME
ILLINOIS
JACKSON COUNTY

407 SOUTH FOREST AVENUE, CARBONDALE

IF REPRODUCED, PLEASE CREDIT THE HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF FIELD DIRECTOR, DATE OF FIELDWORK
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

COMPETITION WINNER
LEICESTER B. HOLLAND PRIZE ENTRY 2011