

MEMO:
 SUBJECT: LINK BUDGETARY ESTIMATES
 DATE: 4/18/83
 TO: M. Balister
 FROM: J. Coe

The following is a budgetary estimate of the costs of the VLA-Elephant Butte and VLA-Lamy Microwave Links. These estimated costs are in current dollars. They do not include the costs of spare parts required to operate the system.

It is also assumed that the terrain is such that adequate path clearances can be obtained with only 15' towers.

VLA-ELEPHANT BUTTE LINK COMPONENTS

Description	Qty.	Estimated Cost	Total
10' Parabolic Antenna	2	6K each	12K
10'x 16' Passive Reflector	1	5K	5K
Foundation and Towers		10K	10K
Note: Reflector foundation 8 yds. @ \$400/yd installed.			
Remote Station Pwr Amp	1	8K	8K
Remote Station 17Ghz Osc.	2	3K	6K
Remote Station Mixers	2	1.5K	3K
Remote Station IF Amps	5	.4K	2K
Remote Station WG, Filters			2K
Remote Station Circulators			2K
Remote Station Pwr. Supplies			3K
Remote Station Connectors & Cabling			2K
Note: Subtotal for Remote Station T/R Components 28K			
Local Transmitter/Receiver			25K
Note: Pwr Amp lower cost than remote unit.			

VLA-ELEPHANT BUTTE LINK COMPONENT COSTS 90K

VLA-LAMY LINK COMPONENTS

Description	Qty.	Estimated Cost	Total
10' Parabolic Antenna	4	6K each	24K
10'x 16' Passive Reflector	3	5K	15K
Foundation and Towers			20K
Remote Transmitter/Receiver			28K
Local Transmitter/Receiver			25K
Active Repeater			40K

VLA-LAMY MICROWAVE LINK COMPONENT COSTS 152K

MANPOWER ESTIMATES:

ENGINEERING	1 man year	50K
TECHNICIAN	3 man years	100K