



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 37 AND BOONE STREET

LOOP	PHASE (φ)	LOOP SIZE (FT X FT)	REQUIRED • OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. NB CCO	8	6 X 6	5	245.5	2.0
2A. NB THRU CD	8	6 X 6	5	197.8	1.0
2B. NB THRU CD	8	6 X 6	5	197.8	1.0
3. WB CD	NA	NA	NA	NA	NA
4. SB CCO	4	6 X 6	5	246.6	2.1
5A. SB CD	4	6 X 6	5	184.4	0.7
5B. SB CD	4	6 X 6	5	183.3	0.6
6. EB CD	NA	NA	NA	NA	NA

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.
Q=QUADRAPOLE

SCHEDULE OF QUANTITIES			TOTAL
CODE NO	ITEM	UNIT	QUANTITIES
80500100	LOCATING UNDERGROUND CABLE	FOOT	25
88600600	DETECTOR LOOP REPLACEMENT	FOOT	194

