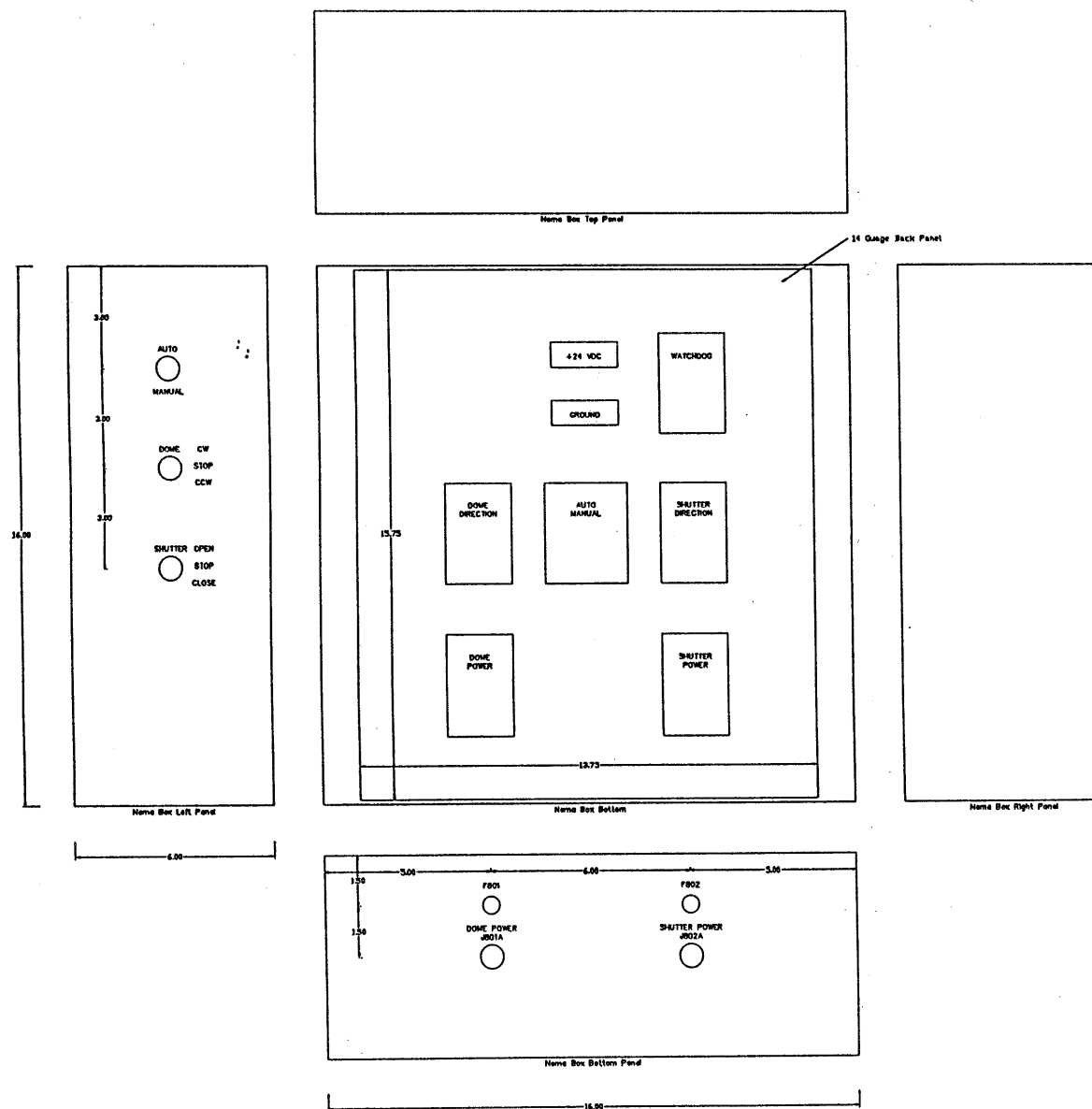


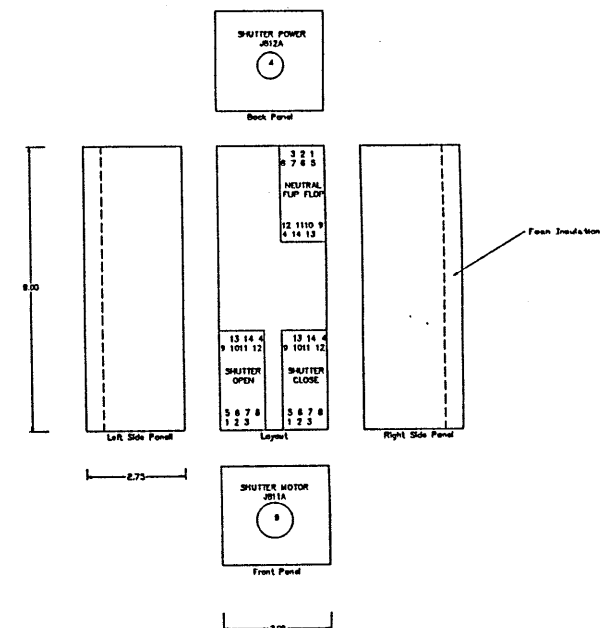
AutoScope Corporation
 p.o. box 2560 mesa, arizona 85214-2560 u.s.a.
 phone 602/497-0001 fax 602/497-0001

REV	DATE	BY	CHK	APP	REV	DATE	BY	CHK	APP
10KV	05/14/94				DCS-110				
DOE CONTROL SYSTEM					DCS-SI				

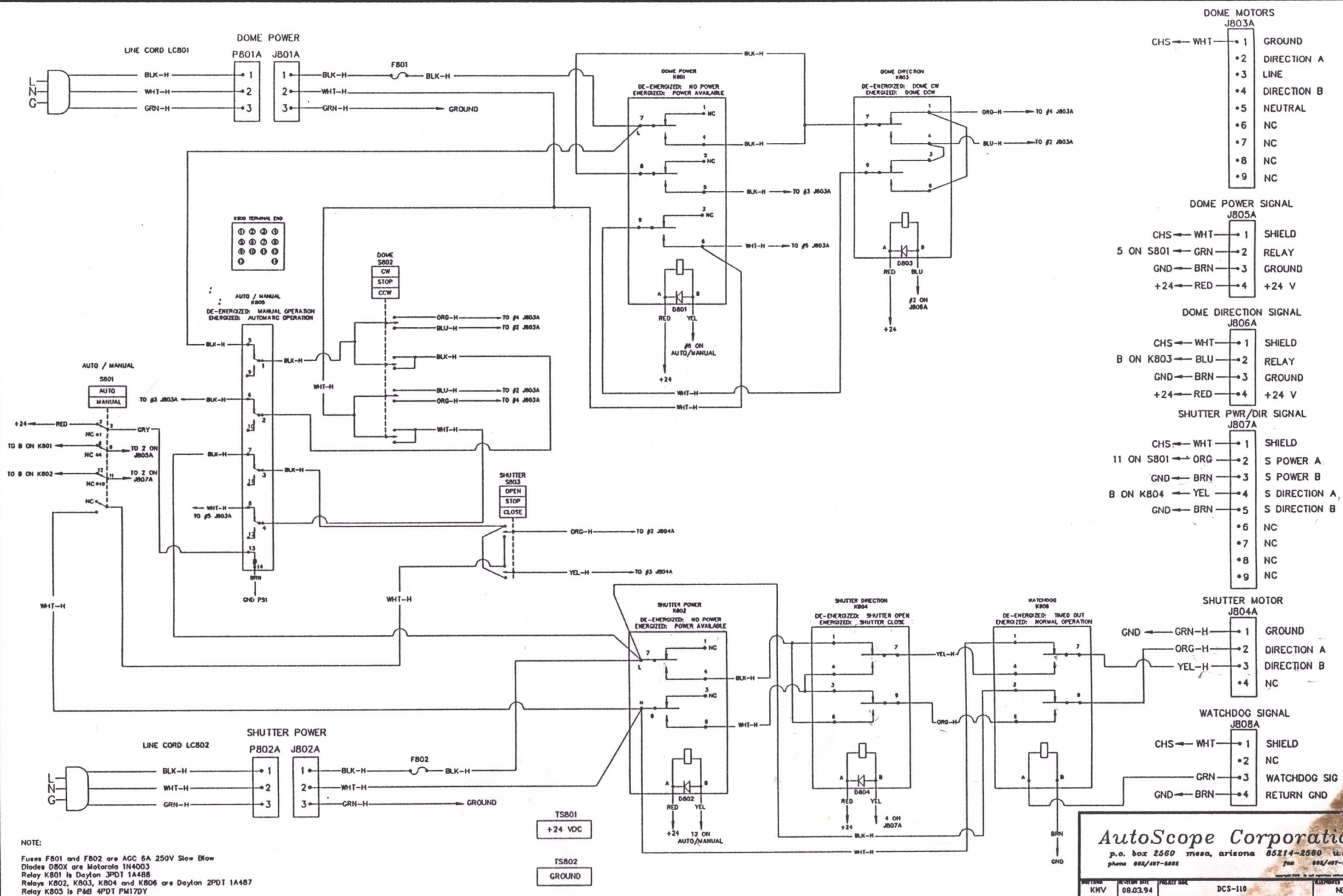
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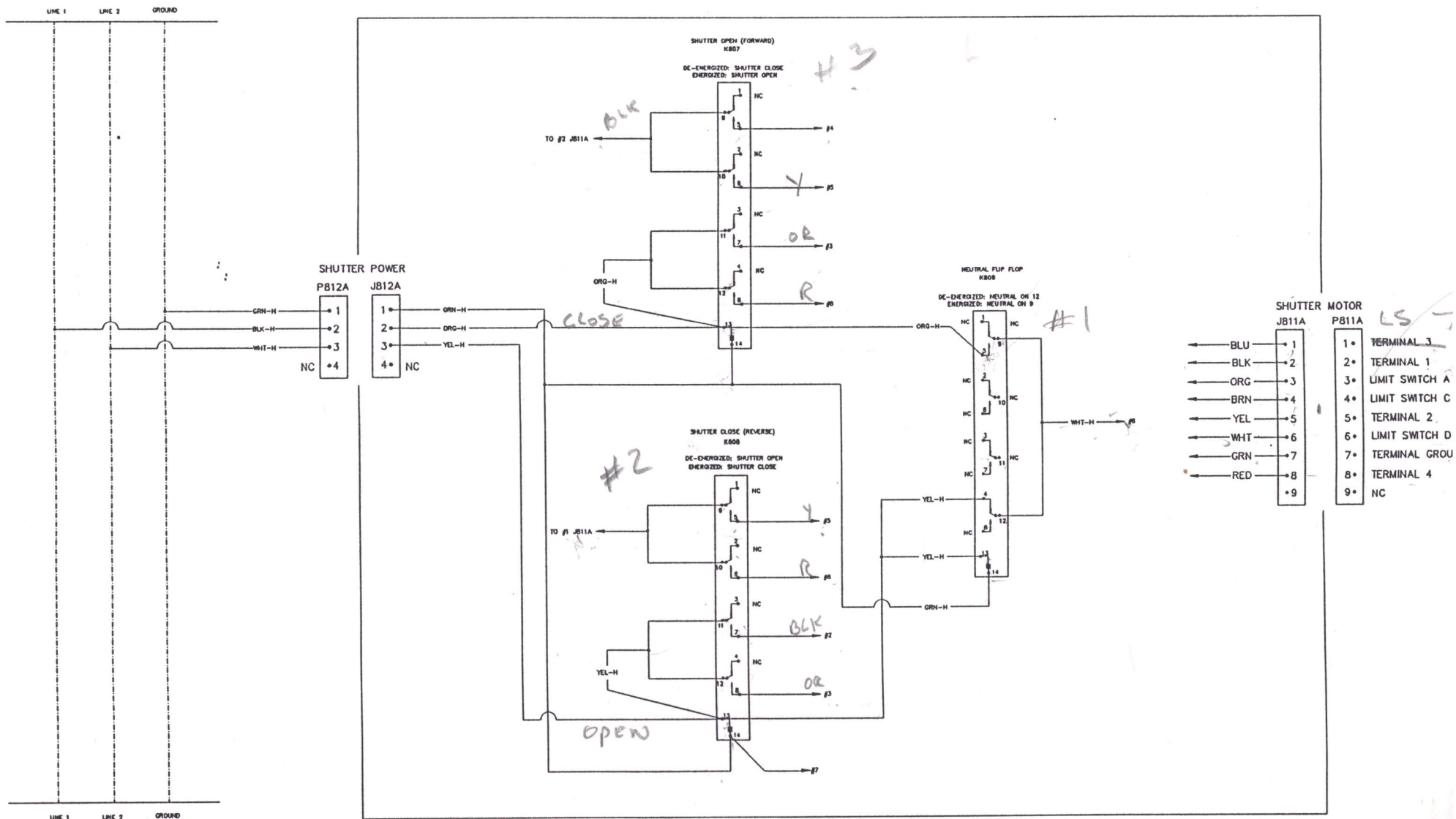
DCS-110 Layout



Shutter Power Allocator Layout



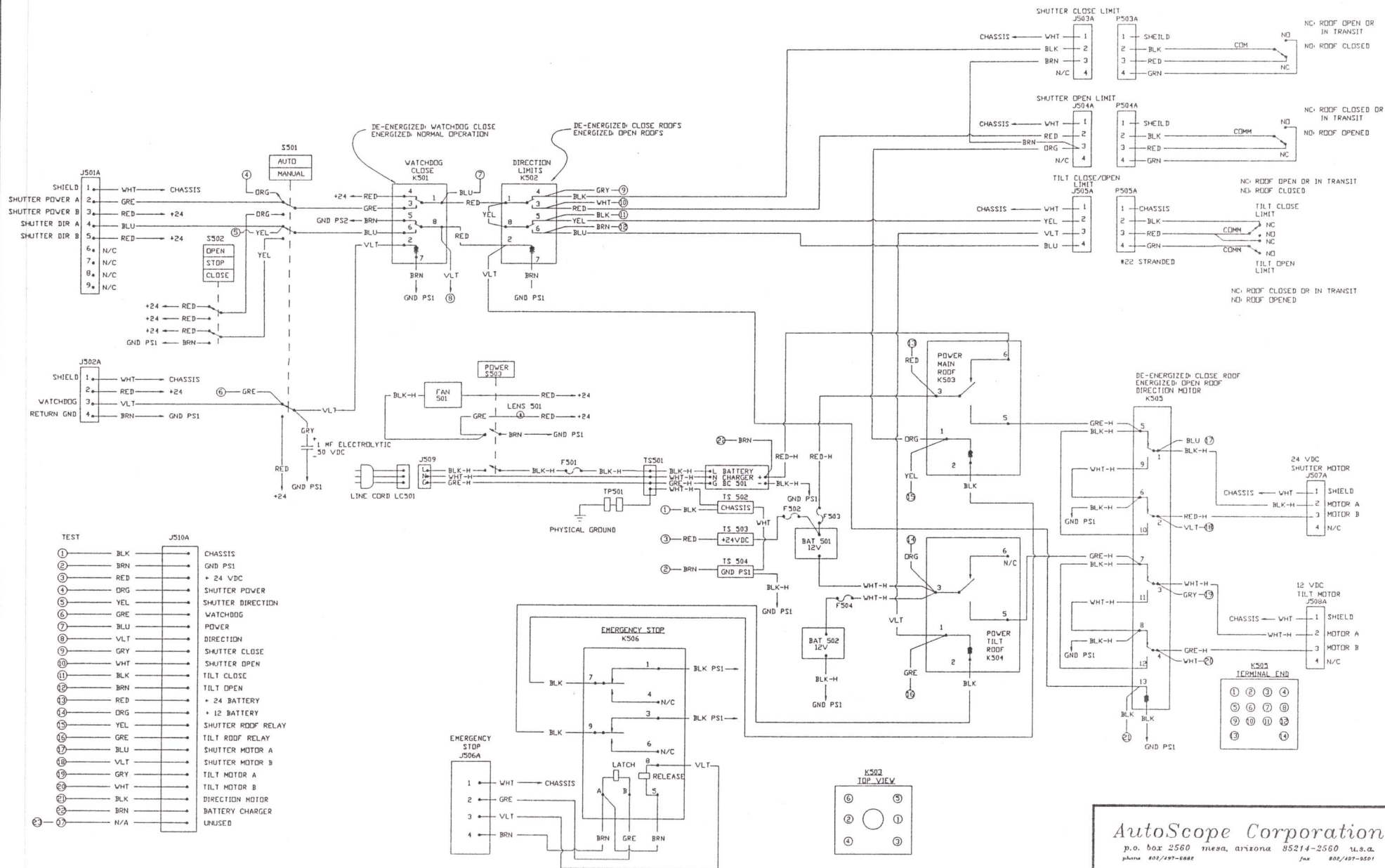
PCS-52



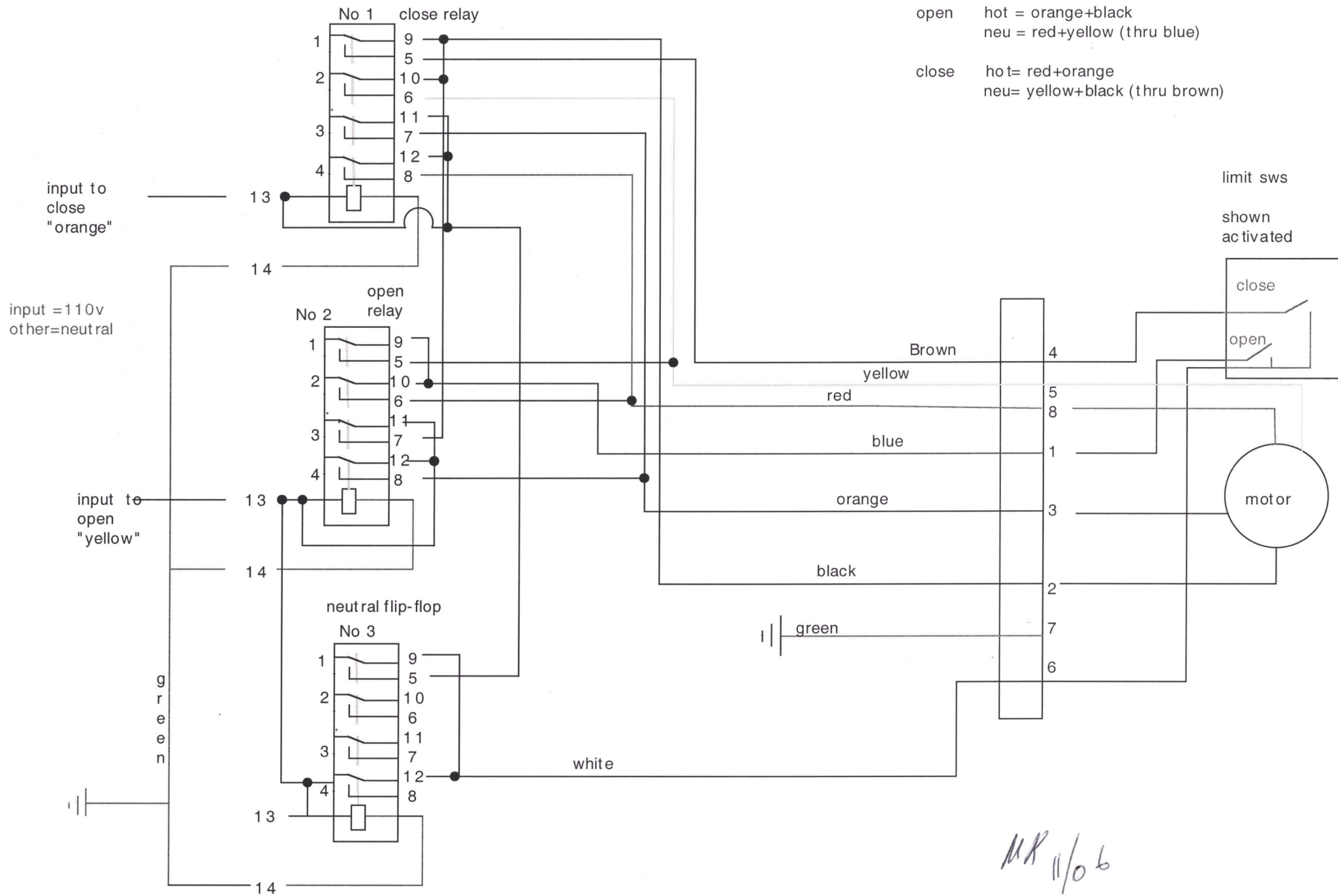
AutoScope Corporation
 p.o. box 2680 mesa, arizona 85214-2680 u.s.c
 phone 602/487-8882 fax 602/487-9960

REVISED BY KRV	REVISION DATE 08.03.94	PROJECT NAME DCS-110	TECHNICAL NONI
REVISED BY DCS-110 SPAM		REVISED BY DCS-53	

PCS-53



RCS-S1

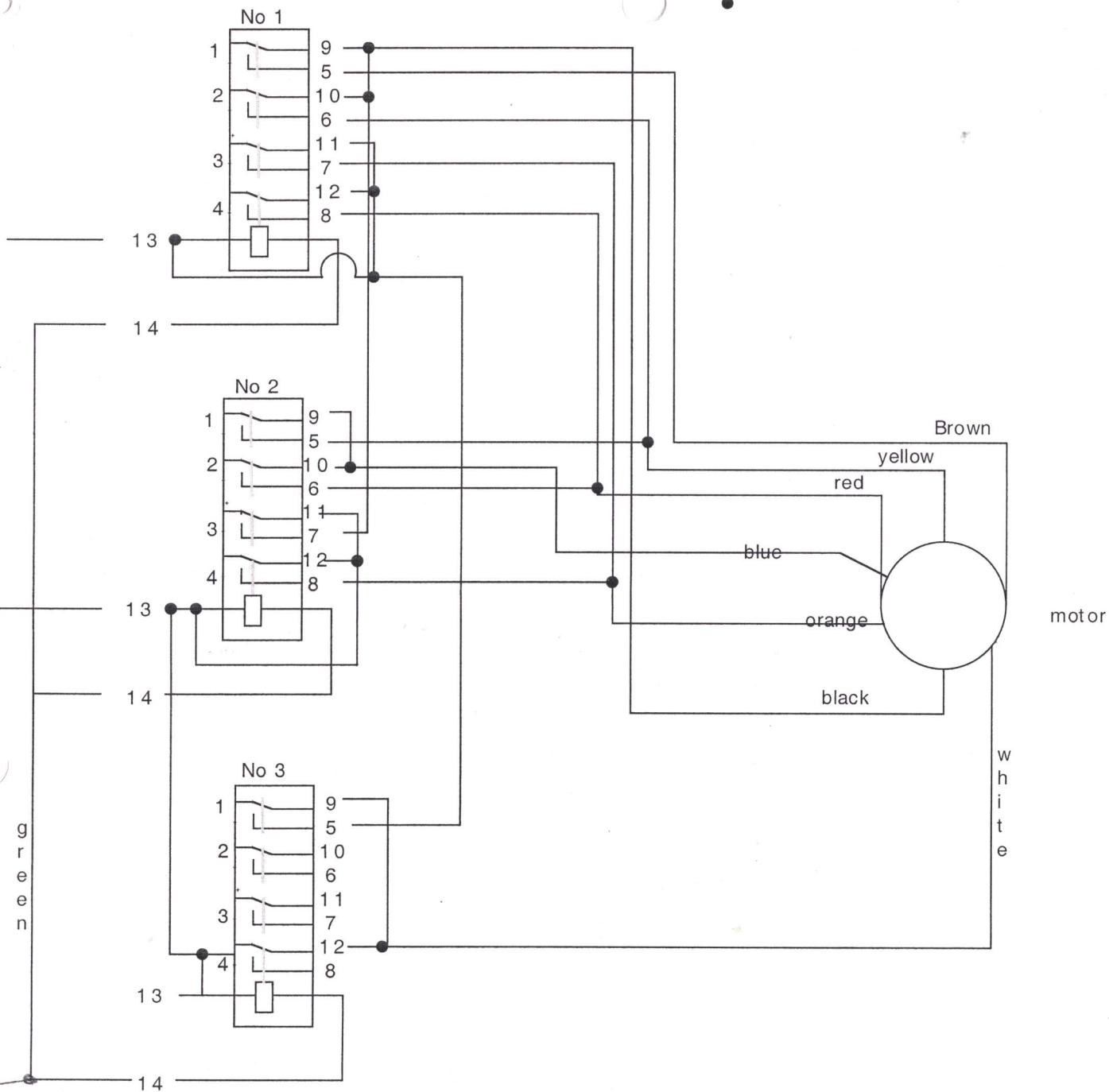


J804 A
PIN 2
input close
"orange"

J804 A
PIN 3
input open
"yellow"

J804 A
PIN 1

J804 A
PIN 4 (N/C)



IN AUTO MODE:

- POWER AVAILABLE TO AUTO RELAYS ONLY WITH AUTO/MANUAL SWITCH IN "AUTO"
- SHUTTER POWER ACTIVATED BY EXTERNAL SIGNAL (..A GROUND)
- SHUTTER DIRECTION IS "CLOSE" WHEN RELAY ACTIVATED, "OPEN" OTHERWISE
- WATCHDOG RELAY IS NORMALLY "ON"
- AUTO CONTROL WHEN AUTO/MANUAL IN "AUTO", WATCHDOG AT "ON"
- A SWITCH OF WATCHDOG TO "OFF", A FAILURE OF +24V POWER, OR BOTH, PRODUCES A STEADY "CLOSE" VOLTAGE AT THE OUTPUT. THERE IS NO EFFECT OF EITHER IN "MANUAL" MODE

IN MANUAL MODE:

- STATE OF AUTO RELAYS OR WATCHDOG IS IRRELEVANT

NOTE THAT THIS CIRCUIT USES TERMINALS #10, #11, #12 ON THE AUTO/MANUAL SWITCH WHICH PREVIOUSLY WERE USED TO INTERRUPT, IN "MANUAL" POSITION, ANY INCOMING SIGNAL TO THE SHUTTER POWER RELAY, K802. IN THE PRESENT CIRCUIT SUCH A SIGNAL WOULD ACTIVATE THE RELAY IN "MANUAL" MODE, BUT TO NO EFFECT

CONCERN: IN THIS CIRCUIT, AS IN PREVIOUS INCARNATIONS, SHUTTER MOTOR POWER (AS WELL AS DOME ROTATOR MOTOR POWER) PASS THROUGH THE AUTO/MANUAL AND OPEN/CLOSE (CLOCKWISE/COUNTERCLOCKWISE) SWITCHES. THE OPERATION CURRENTS CAN BE $\sim 7A$ WHICH IS A LOT FOR THE SWITCH RATINGS.

NOTE THE DOME ROTATION PART OF THE CIRCUIT IS UNCHANGED

* THE INTENT/CONSTRAINT WAS TO MAKE USE OF EXISTING COMPONENTS WITH MINIMAL REWIRING

K. ANDERSON
27 JUNE 1995

DCS-110

CIRCUIT REDESIGN (SHUTTER CONTROL PORTION)

K. ANDERSON

27 JUNE 1995

ISED 29 JUNE 1995: "As Built"
AUTO/MANUAL (S801)

