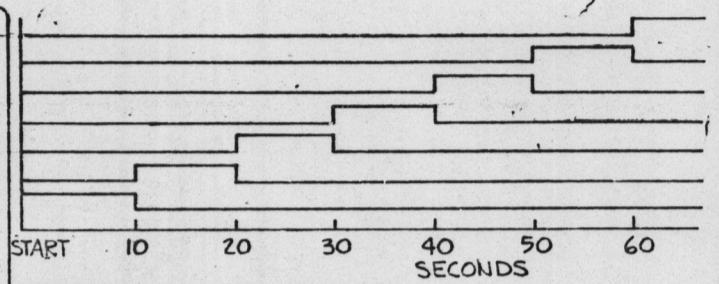
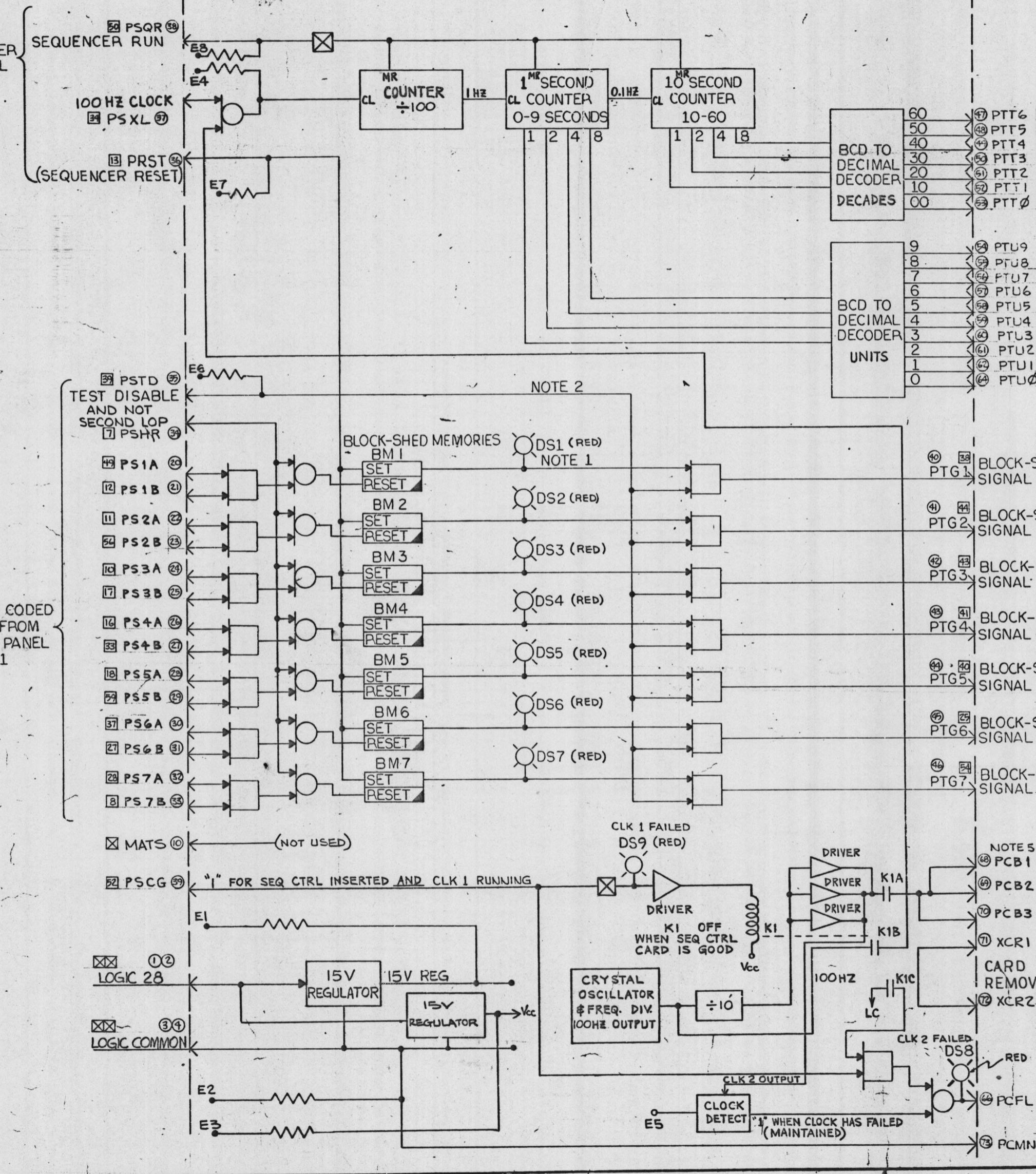


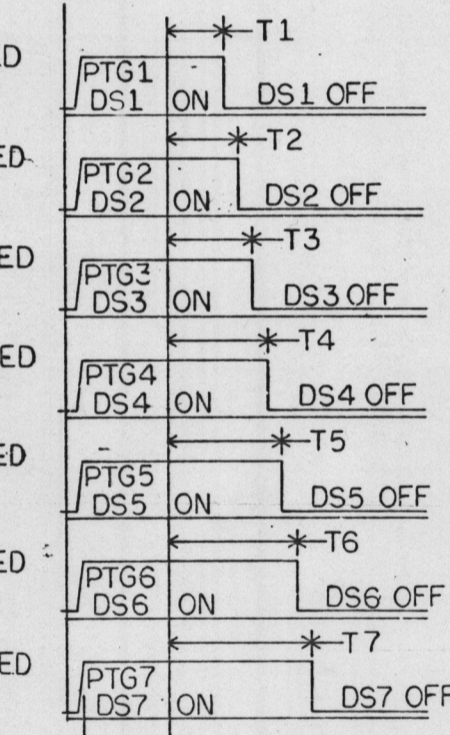
INPUTS OUTPUTS



PTU₉ THROUGH PTU₉ BEHAVE IN SIMILAR MANNER TO PTT₁ THROUGH PTT₆ EXCEPT PULSE DURATION IS 1 SECOND INSTEAD OF 10 SECONDS.

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE APPROVED
-	-	REL ON C/N N8732	2-7-76 KRC
A	-	C/N N9263 ADDED RESISTORS TO TEST POINTS CARD REMOVAL PINS, CHANGED NOTE 3	4/4/76 KRC
B	-	C/N S 23. ADDED DESIGNATIONS TO SEQ CODED OUTPUTS TO AND FROM PRGM. PANEL. ADDED CKT BETWEEN INPUT 'PTSD' AND OUTPUTS PCB1, 2 & 3. ADDED CLOCK DETECT CKT. # GRAPHS SHOWING PULSE DURATION AT SEQ OUTPUTS; DELETED 'SEQ START' CKT AND 'END OF SEQ. CKT.	1/19/77
C	-	C/N S 156-100H WAS 60, IO WAS 6. ADDED RESISTORS TO TEST POINTS TO ALL BLOCK-SHED MEMORIES AND CLOCK DETECT. TEST DISABLE OR SECOND LOP WAS TEST DISABLE.	2-2-77
D	-	C/N S 276. DELETED INPUTS 'PS3A & B' & OUTPUT 'PTG8'. ADDED 'PCMN' OUTPUT. REVISED CIRCUIT. IN ZONES 7-8 REVERSED 'RESET' AND 'RUN'. PSQR WAS PRST, PSCG WAS PTSD, ADDED PSHR ZONES 5-6. ADDED DS9, 'RED', 'CLK 2 OUTPUT', 'CLK 1 RUNNING' WAS SEQ CTRL CLK GOOD. ZONE 4 ADDED DS8, PCFL, DELETED 'FOR' SEQ T ONLY' AT KIC. ADDED NOTES 4 & 5	2-2-77 KRC
TD	8C	C/N S 515-PSXL WAS PSCIT, TEST DISABLE AND NOT SECOND LOP WAS TEST DISABLE OR SECOND LOP.	2-5-77
F	-	C/N S 530 ADDED E5 TO CLOCK DETECT BDN'S A5/ Vcc WAS LOGIC Z8 ZONE A5/ADDED 15V REGULATOR & E3 TO LOGIC Z8 LABELED E1, E2, E4, E6 E7 & E8 ADDED MATS ZONE B7	2/13/79 KRC
G	-	C/N S 695-ADDED NOTE 6. ADDED PRGM PNL TB POINTS, P.C. CONN. PINS & SIGNALS NOT AVAILABLE ON PRGM PNL ALONG INPUT & OUTPUT SEPARATIONS.	6-8-78

APERTURE CARD



- NOTES:
1. EACH DECODER CAN BE JUMPED TO THE APPROPRIATE BCD TO DEC DECODER OUTPUTS TO PROVIDE A RESET TO ITS ASSOCIATED MEMORY AT THE DESIRED TIME INTERVAL IN THE SEQUENCE. THE TEST FEATURE (SEE NOTE 2 AND SEQUENCER CONTROL LOGIC DIAGRAM, KGV2316) ENABLES A PROGRAMMER IN THE FIELD TO ASCERTAIN THAT T1>T2>T3>T4>T5>T6>T7 BY OBSERVING SUCCESSIVE TURN-OFF OF DS1-7.
 2. TEST FEATURE PERMITS A FULL ON LINE CHECK OF SEQUENCER WITHOUT TRANSMITTING BLOCK-SHED SIGNALS TO LOADS. TEST DISABLE BUS GOES TO LOGIC '0' DURING MANUAL TEST
 3. 'E' INDICATES TEST POINT ON CARD, ACCESSIBLE FROM CABINET FRONT WHEN DOOR IS OPEN.
 4. ALL SET/RESET MEMORIES COME ON IN 'RESET' STATE WHENEVER POWER IS APPLIED. 'RESET' OVERRIDES 'SET'. OUTPUT IS DELAYED WITH RESPECT TO INPUT BY 3.5 M SEC. TYPICALLY (2.5 M SEC. MIN, 20.5 M SEC. MAX.) THE OUTPUT STATE IS NOT LATCHED UNTIL THE OUTPUT IS PRESENT.
 5. 10 HZ CLOCK OUTPUTS PCA1, PCA2, & PCA3 (SEE KGV2316) ARE WIRED 'OR' WITH OUTPUTS PCB1, PCB2, & PCB3 ON PROGRAM PANEL.
 6. PRGM PNL TB POINTS ARE SHOWN THUS [E]. P.C. CONN. PINS ARE SHOWN THUS [C]. SIGNALS NOT AVAILABLE ON PRGM. PNL ARE SHOWN [X].

PROJECT BELLEFONTE NP
CONTRACT 75K3-1-5350
DRAWING NO. KGU2316
SHEET 1 REV G UNIT 117

APPROVED
This approval does not relieve the Contractor from any part of the responsibility for the correctness of design, details and dimensions.
TENNESSEE VALLEY AUTHORITY
AUG 8 1978

QTY REQD FOR DASH NO.	ITEM NO.	NOMENCLATURE OR DESCRIPTION	DWG SIZE	PART OR IDENTIFYING NO.	SPECIFICATION	MATERIAL OR NOTE	REMARKS
LIST OF MATERIAL							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .25 .3125 .375 .4375 .500 .5625 .625 .6875 .750 .8125 .875 .9375 1.000 1.125 1.250 1.375 1.500 1.625 1.750 1.875 2.000 2.125 2.250 2.375 2.500 2.625 2.750 2.875 3.000 3.125 3.250 3.375 3.500 3.625 3.750 3.875 4.000 4.125 4.250 4.375 4.500 4.625 4.750 4.875 5.000 5.125 5.250 5.375 5.500 5.625 5.750 5.875 6.000 6.125 6.250 6.375 6.500 6.625 6.750 6.875 7.000 7.125 7.250 7.375 7.500 7.625 7.750 7.875 8.000 8.125 8.250 8.375 8.500 8.625 8.750 8.875 9.000 9.125 9.250 9.375 9.500 9.625 9.750 9.875 10.000 FRACTIONS 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 3/8 1 1/2 1 5/8 1 3/4 1 7/8 2 1/8 2 1/4 2 3/8 2 1/2 2 5/8 2 3/4 2 7/8 3 1/8 3 1/4 3 3/8 3 1/2 3 5/8 3 3/4 3 7/8 4 1/8 4 1/4 4 3/8 4 1/2 4 5/8 4 3/4 4 7/8 5 1/8 5 1/4 5 3/8 5 1/2 5 5/8 5 3/4 5 7/8 6 1/8 6 1/4 6 3/8 6 1/2 6 5/8 6 3/4 6 7/8 7 1/8 7 1/4 7 3/8 7 1/2 7 5/8 7 3/4 7 7/8 8 1/8 8 1/4 8 3/8 8 1/2 8 5/8 8 3/4 8 7/8 9 1/8 9 1/4 9 3/8 9 1/2 9 5/8 9 3/4 9 7/8 10 1/8 10 1/4 10 3/8 10 1/2 10 5/8 10 3/4 10 7/8 11 1/8 11 1/4 11 3/8 11 1/2 11 5/8 11 3/4 11 7/8 12 1/8 12 1/4 12 3/8 12 1/2 12 5/8 12 3/4 12 7/8 13 1/8 13 1/4 13 3/8 13 1/2 13 5/8 13 3/4 13 7/8 14 1/8 14 1/4 14 3/8 14 1/2 14 5/8 14 3/4 14 7/8 15 1/8 15 1/4 15 3/8 15 1/2 15 5/8 15 3/4 15 7/8 16 1/8 16 1/4 16 3/8 16 1/2 16 5/8 16 3/4 16 7/8 17 1/8 17 1/4 17 3/8 17 1/2 17 5/8 17 3/4 17 7/8 18 1/8 18 1/4 18 3/8 18 1/2 18 5/8 18 3/4 18 7/8 19 1/8 19 1/4 19 3/8 19 1/2 19 5/8 19 3/4 19 7/8 20 1/8 20 1/4 20 3/8 20 1/2 20 5/8 20 3/4 20 7/8 21 1/8 21 1/4 21 3/8 21 1/2 21 5/8 21 3/4 21 7/8 22 1/8 22 1/4 22 3/8 22 1/2 22 5/8 22 3/4 22 7/8 23 1/8 23 1/4 23 3/8 23 1/2 23 5/8 23 3/4 23 7/8 24 1/8 24 1/4 24 3/8 24 1/2 24 5/8 24 3/4 24 7/8 25 1/8 25 1/4 25 3/8 25 1/2 25 5/8 25 3/4 25 7/8 26 1/8 26 1/4 26 3/8 26 1/2 26 5/8 26 3/4 26 7/8 27 1/8 27 1/4 27 3/8 27 1/2 27 5/8 27 3/4 27 7/8 28 1/8 28 1/4 28 3/8 28 1/2 28 5/8 28 3/4 28 7/8 29 1/8 29 1/4 29 3/8 29 1/2 29 5/8 29 3/4 29 7/8 30 1/8 30 1/4 30 3/8 30 1/2 30 5/8 30 3/4 30 7/8 31 1/8 31 1/4 31 3/8 31 1/2 31 5/8 31 3/4 31 7/8 32 1/8 32 1/4 32 3/8 32 1/2 32 5/8 32 3/4 32 7/8 33 1/8 33 1/4 33 3/8 33 1/2 33 5/8 33 3/4 33 7/8 34 1/8 34 1/4 34 3/8 34 1/2 34 5/8 34 3/4 34 7/8 35 1/8 35 1/4 35 3/8 35 1/2 35 5/8 35 3/4 35 7/8 36 1/8 36 1/4 36 3/8 36 1/2 36 5/8 36 3/4 36 7/8 37 1/8 37 1/4 37 3/8 37 1/2 37 5/8 37 3/4 37 7/8 38 1/8 38 1/4 38 3/8 38 1/2 38 5/8 38 3/4 38 7/8 39 1/8 39 1/4 39 3/8 39 1/2 39 5/8 39 3/4 39 7/8 40 1/8 40 1/4 40 3/8 40 1/2 40 5/8 40 3/4 40 7/8 41 1/8 41 1/4 41 3/8 41 1/2 41 5/8 41 3/4 41 7/8 42 1/8 42 1/4 42 3/8 42 1/2 42 5/8 42 3/4 42 7/8 43 1/8 43 1/4 43 3/8 43 1/2 43 5/8 43 3/4 43 7/8 44 1/8 44 1/4 44 3/8 44 1/2 44 5/8 44 3/4 44 7/8 45 1/8 45 1/4 45 3/8 45 1/2 45 5/8 45 3/4 45 7/8 46 1/8 46 1/4 46 3/8 46 1/2 46 5/8 46 3/4 46 7/8 47 1/8 47 1/4 47 3/8 47 1/2 47 5/8 47 3/4 47 7/8 48 1/8 48 1/4 48 3/8 48 1/2 48 5/8 48 3/4 48 7/8 49 1/8 49 1/4 49 3/8 49 1/2 49 5/8 49 3/4 49 7/8 50 1/8 50 1/4 50 3/8 50 1/2 50 5/8 50 3/4 50 7/8 51 1/8 51 1/4 51 3/8 51 1/2 51 5/8 51 3/4 51 7/8 52 1/8 52 1/4 52 3/8 52 1/2 52 5/8 52 3/4 52 7/8 53 1/8 53 1/4 53 3/8 53 1/2 53 5/8 53 3/4 53 7/8 54 1/8 54 1/4 54 3/8 54 1/2 54 5/8 54 3/4 54 7/8 55 1/8 55 1/4 55 3/8 55 1/2 55 5/8 55 3/4 55 7/8 56 1/8 56 1/4 56 3/8 56 1/2 56 5/8 56 3/4 56 7/8 57 1/8 57 1/4 57 3/8 57 1/2 57 5/8 57 3/4 57 7/8 58 1/8 58 1/4 58 3/8 58 1/2 58 5/8 58 3/4 58 7/8 59 1/8 59 1/4 59 3/8 59 1/2 59 5/8 59 3/4 59 7/8 60 1/8 60 1/4 60 3/8 60 1/2 60 5/8 60 3/4 60 7/8				CONSOLIDATED CONTROLS CORPORATION BETHEL, CONN. EL SEGUNDO, CALIF.			
DRAWN COS 16 JAN 76		LOGIC DIAGRAM SEQUENCER TIMER					
CHECKED Ken Tarrant 29-76		SIZE CODE IDENT NO. D 02750					
ENGR J. W. Wick 9 Feb 76		FOR BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 CONTRACT # 75K3-85550					
RELEASED KRC/Smell 2/19/76		TENNESSEE VALLEY AUTHORITY					
MATERIAL: 9N195 9N28		SCALE C/D REVISION SHEET 10 OF 1					
FINISH: C-1		APPLICATION					