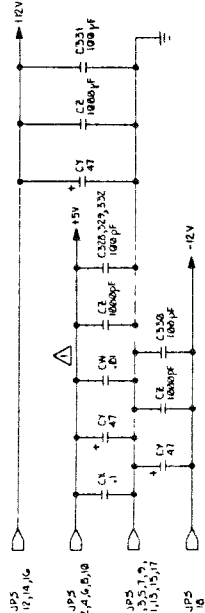
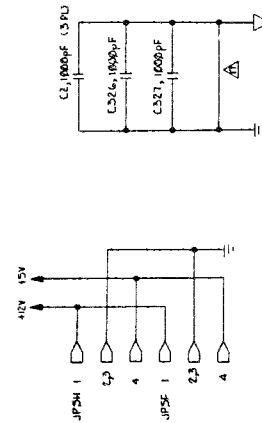


NOTES: UNLESS OTHERWISE SPECIFIED

- 1. CMOS CHIPS ARE USED NEAR I.C.'S WITH 10 MHZ PIN 14 SHOULD CONNECT TO +12V; PIN 1 TO -12V
- 2. THESE GATES MUST BE IN THE SAME PACKAGE (PAGES 3, 16) (LAYOUT)
- 3. ALL OUTPUT TRACES ON 74LS59 SHOULD BE AS SHORT AS POSSIBLE. (LAYOUT)
- 4. SHOULD BE A SHORT TRACE AND NO HIGH FREQUENCY TRACE NEARBY. (LAYOUT)
- 5. STUFFING OPTIONS: 74LS245/245/245/245 (NOT 74LS245). C3200 SHOULD BE 20PF
- 6. 74LS245/245/245/245 (NOT 74LS245). C3200 SHOULD BE 20PF
- 7. 74LS245/245/245/245 (NOT 74LS245). C3200 SHOULD BE 20PF
- 8. MPS 4250 IS AN ALTERNATE PART.
- 9. THESE COMPONENTS ARE ONLY TO BE STUFFED WHEN USING CONTROLLERS OTHER THAN 702197.
- 10. DELETED
- 11. INSERT ONLY FOR 256K RAM CHIPS. ALSO CUT TRACE BETWEEN E2 AND E3 AND ADD J14 FROM E1 TO E2.
- 12. THESE CAPACITORS SHOULD BE LOCATED NEXT TO T1 AND T2. (LAYOUT)
- 13. HEAVY TRACE LINES INDICATE .25 MIL TRACES, .50 MIL AIR GAP. (LAYOUT)
- 14. ALL 1/2W RESISTORS SHOULD BE PURCHASABLE AND NON-FLAMMABLE.
- 15. ALL 1/4W RESISTORS ARE TO BE NON-FLAMMABLE.
- 16.  $\frac{1}{2}$  INDICATES ANALOG GROUND.
- 17.  $\frac{1}{2}$  INDICATES DIGITAL GROUND.
- 18. ALL RELAYS ARE SHOWN AS DE-ACTIVATED.
- 19. CAPACITORS INDICATED SHOULD BE AS CLOSE TO I.C.'S AS POSSIBLE. (LAYOUT)
- 20. INDICATES THE SHORTEST TRACE POSSIBLE BETWEEN THE COMPONENT AND ANALOG GROUND. (LAYOUT)
- 21. +12V AND -12V TO BE CONNECTED ONLY FROM SUPPLY ORIGIN. (LAYOUT)
- 22. SPEAKER INDICATED ON MONITOR CASE.
- 23.  $\frac{1}{2}$  INDICATES CHASSIS GROUND.
- 24. ALL RESISTOR VALUES ARE IN OHMS, 5%, 1/4W.
- 25. ALL 1/4W RESISTORS ARE 1/4W.
- 26. CAPACITOR VALUES ARE IN MICROFARADS.
- 27. THESE COMPONENTS ARE TO BE DELETED WHEN USING 256K RAM'S FOR A ONE MEGABYTE SYSTEM



DEVICE	REFERENCE DESIGNATION	QTY
74LS132	13N	1
74F10	13M	1
74E00	20N	5
74LS27	24M	2
74E244	25G	2
74S64	27N	1
74S112	21E	1
74S51	12H	1
74LS323	20D	1
74LS32	26F	2
LM 376	1D	1
4829	10P	1

LAST USED	NOT USED
C339	C326, C327, C328, C329, C330, C331, C332, C333, C334, C335, C336, C337, C338, C339, C340, C341, C342, C343, C344, C345, C346, C347, C348, C349, C350, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C364, C365, C366, C367, C368, C369, C370, C371, C372, C373, C374, C375, C376, C377, C378, C379, C380, C381, C382, C383, C384, C385, C386, C387, C388, C389, C390, C391, C392, C393, C394, C395, C396, C397, C398, C399, C400, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415, C416, C417, C418, C419, C420, C421, C422, C423, C424, C425, C426, C427, C428, C429, C430, C431, C432, C433, C434, C435, C436, C437, C438, C439, C440, C441, C442, C443, C444, C445, C446, C447, C448, C449, C450, C451, C452, C453, C454, C455, C456, C457, C458, C459, C460, C461, C462, C463, C464, C465, C466, C467, C468, C469, C470, C471, C472, C473, C474, C475, C476, C477, C478, C479, C480, C481, C482, C483, C484, C485, C486, C487, C488, C489, C490, C491, C492, C493, C494, C495, C496, C497, C498, C499, C500, C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549, C550, C551, C552, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C571, C572, C573, C574, C575, C576, C577, C578, C579, C580, C581, C582, C583, C584, C585, C586, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634, C635, C636, C637, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C652, C653, C654, C655, C656, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700, C701, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C757, C758, C759, C760, C761, C762, C763, C764, C765, C766, C767, C768, C769, C770, C771, C772, C773, C774, C775, C776, C777, C778, C779, C780, C781, C782, C783, C784, C785, C786, C787, C788, C789, C790, C791, C792, C793, C794, C795, C796, C797, C798, C799, C800, C801, C802, C803, C804, C805, C806, C807, C808, C809, C810, C811, C812, C813, C814, C815, C816, C817, C818, C819, C820, C821, C822, C823, C824, C825, C826, C827, C828, C829, C830, C831, C832, C833, C834, C835, C836, C837, C838, C839, C840, C841, C842, C843, C844, C845, C846, C847, C848, C849, C850, C851, C852, C853, C854, C855, C856, C857, C858, C859, C860, C861, C862, C863, C864, C865, C866, C867, C868, C869, C870, C871, C872, C873, C874, C875, C876, C877, C878, C879, C880, C881, C882, C883, C884, C885, C886, C887, C888, C889, C890, C891, C892, C893, C894, C895, C896, C897, C898, C899, C900, C901, C902, C903, C904, C905, C906, C907, C908, C909, C910, C911, C912, C913, C914, C915, C916, C917, C918, C919, C920, C921, C922, C923, C924, C925, C926, C927, C928, C929, C930, C931, C932, C933, C934, C935, C936, C937, C938, C939, C940, C941, C942, C943, C944, C945, C946, C947, C948, C949, C950, C951, C952, C953, C954, C955, C956, C957, C958, C959, C960, C961, C962, C963, C964, C965, C966, C967, C968, C969, C970, C971, C972, C973, C974, C975, C976, C977, C978, C979, C980, C981, C982, C983, C984, C985, C986, C987, C988, C989, C990, C991, C992, C993, C994, C995, C996, C997, C998, C999, C1000

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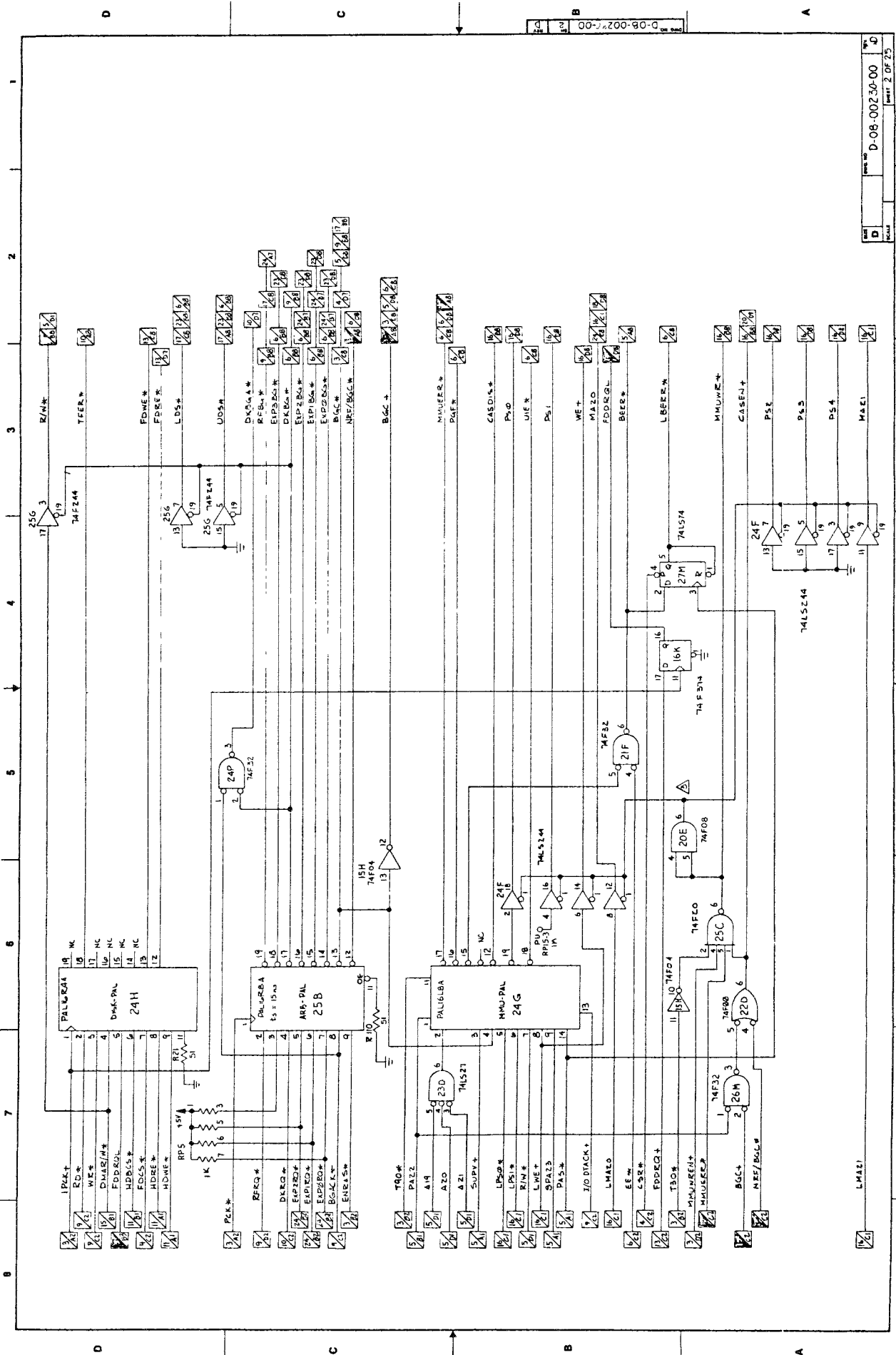
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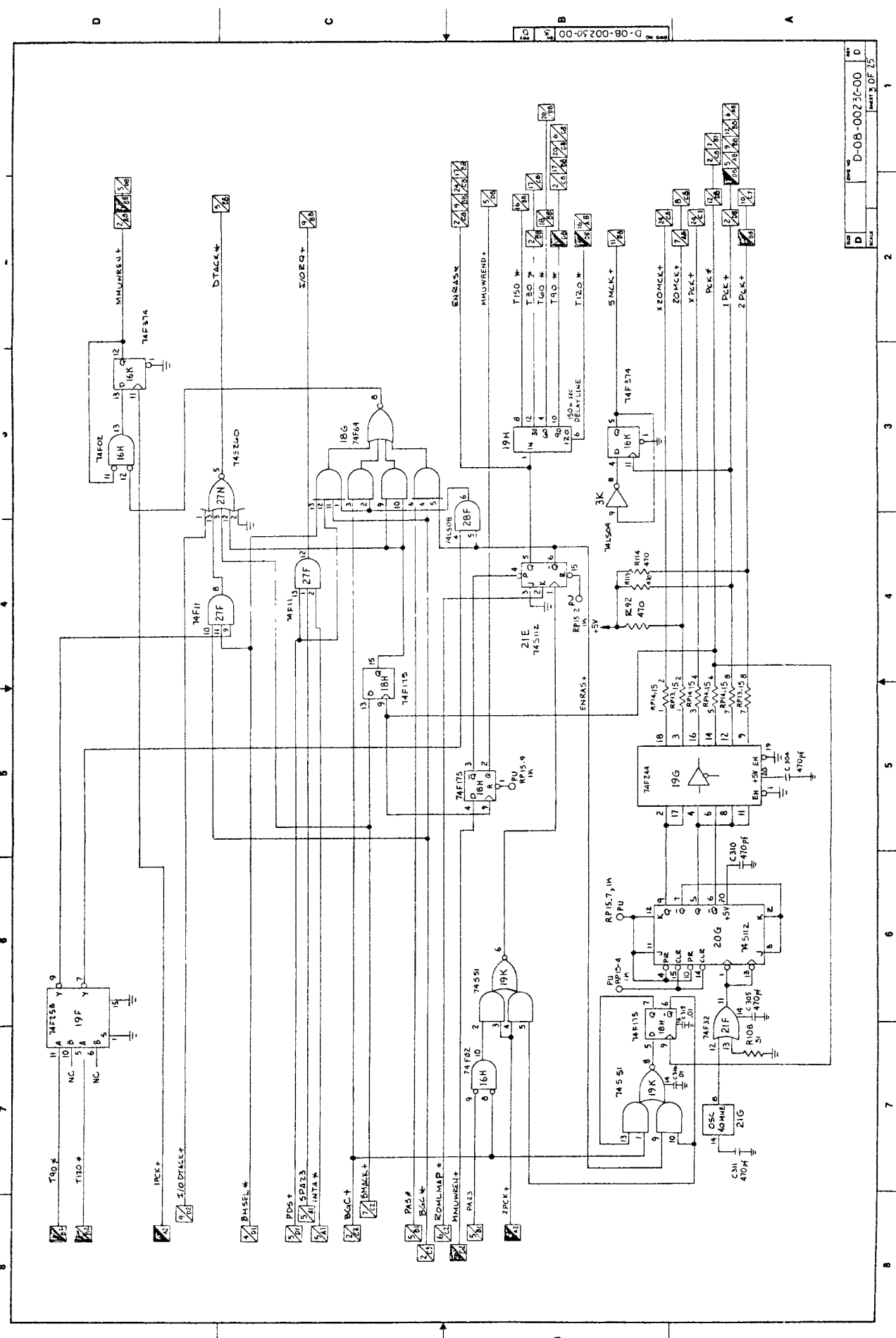
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SCHEMATIC: 54, CPU

PROJECT: D-08-00230-00

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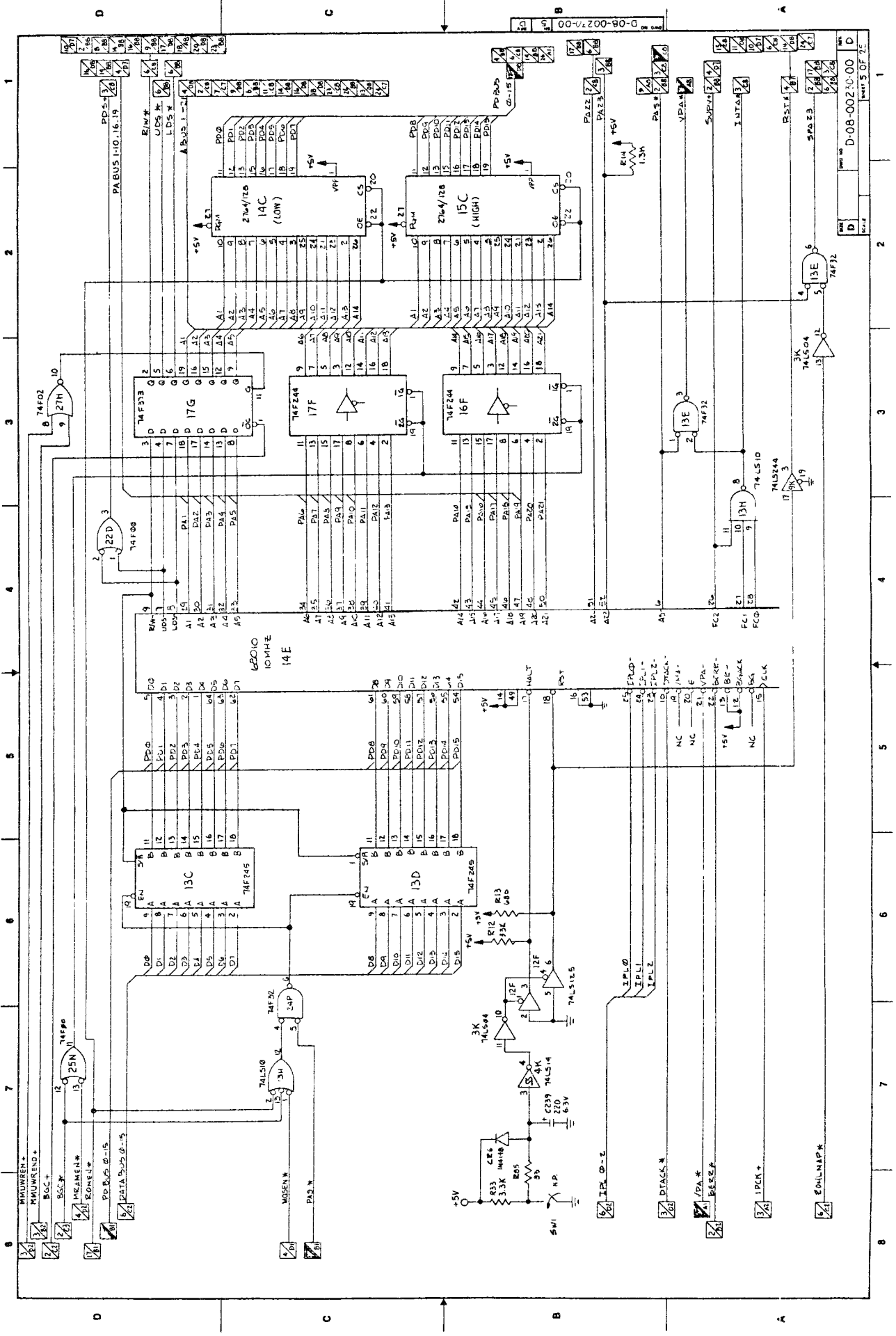
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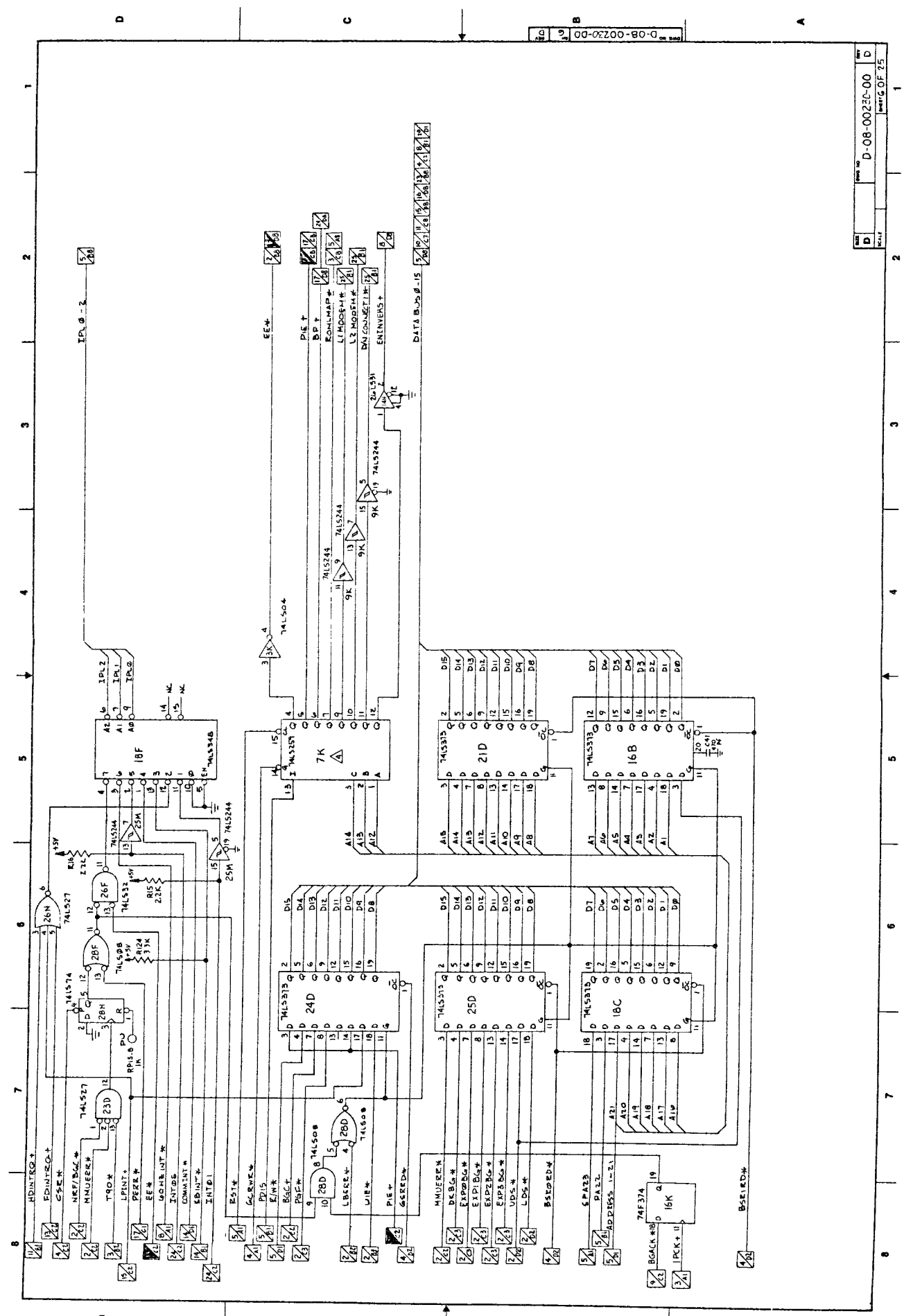
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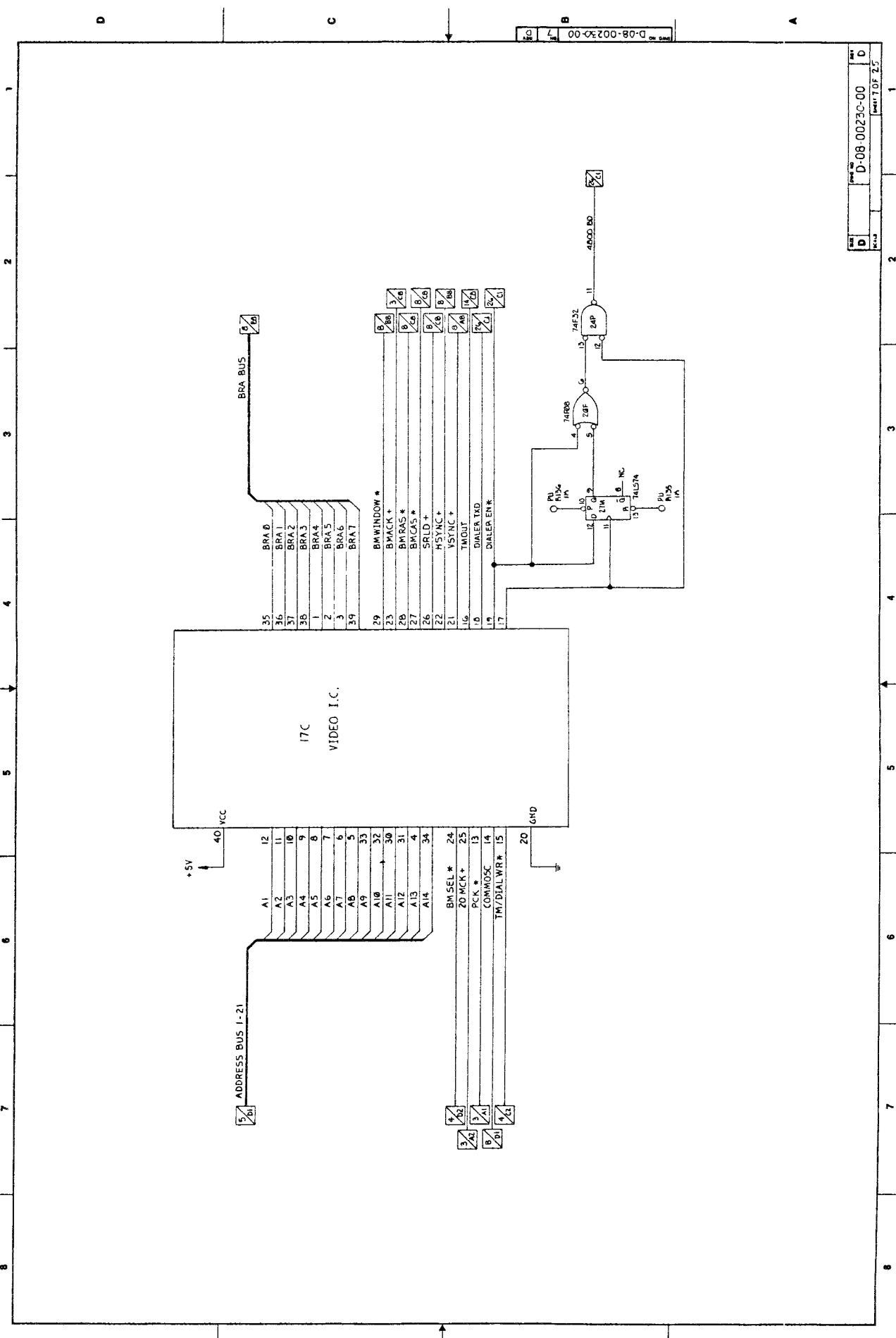


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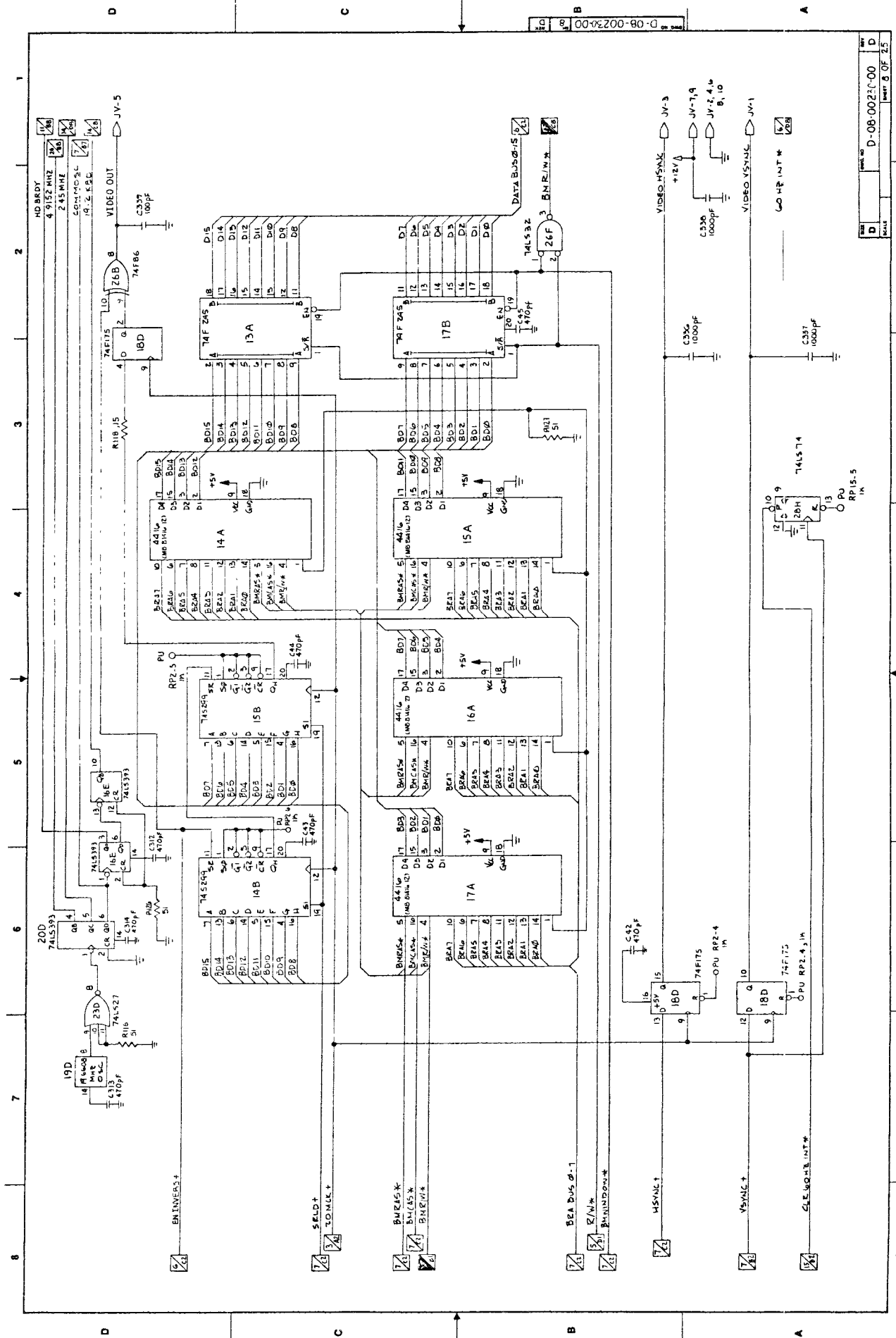
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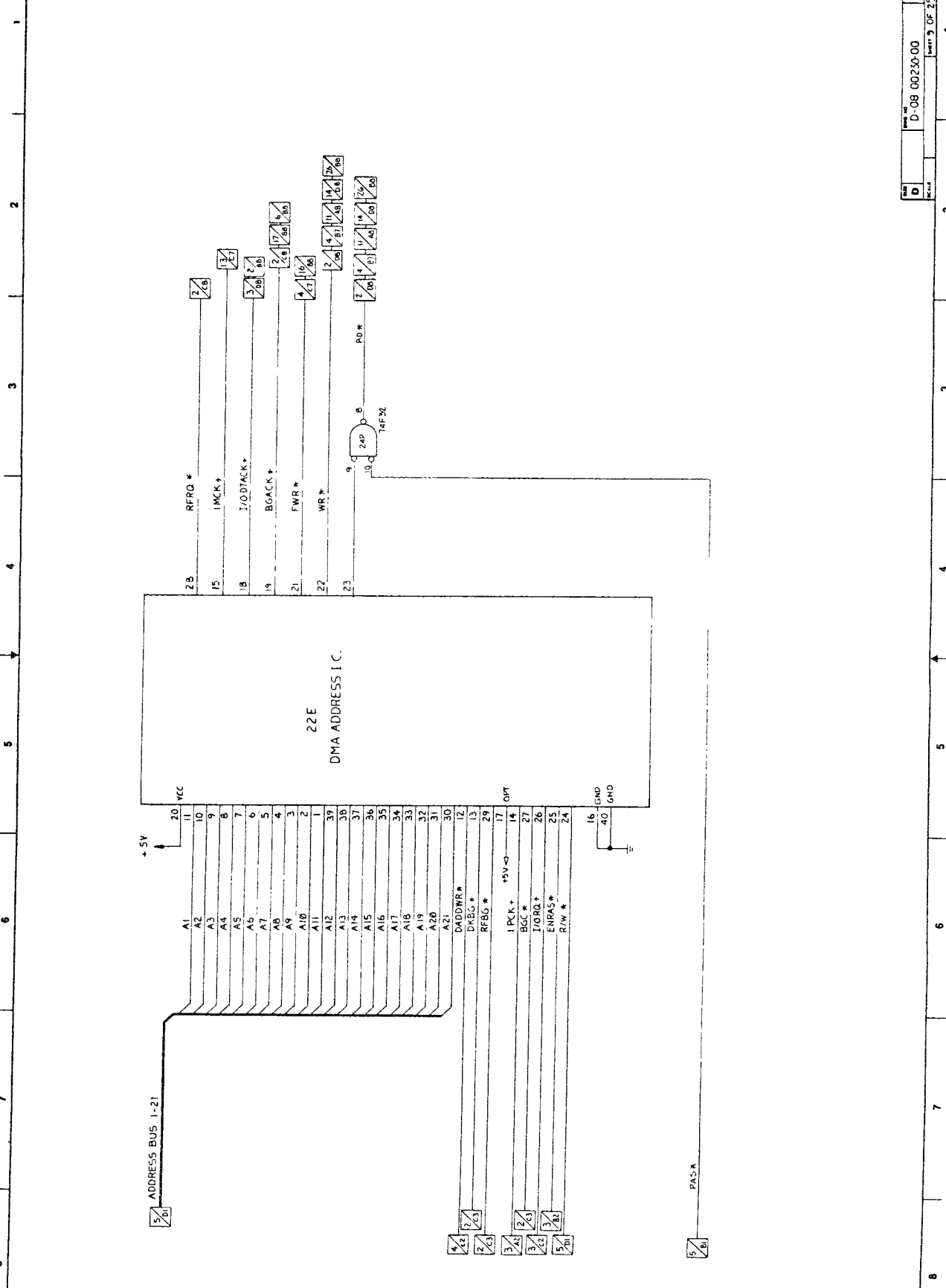
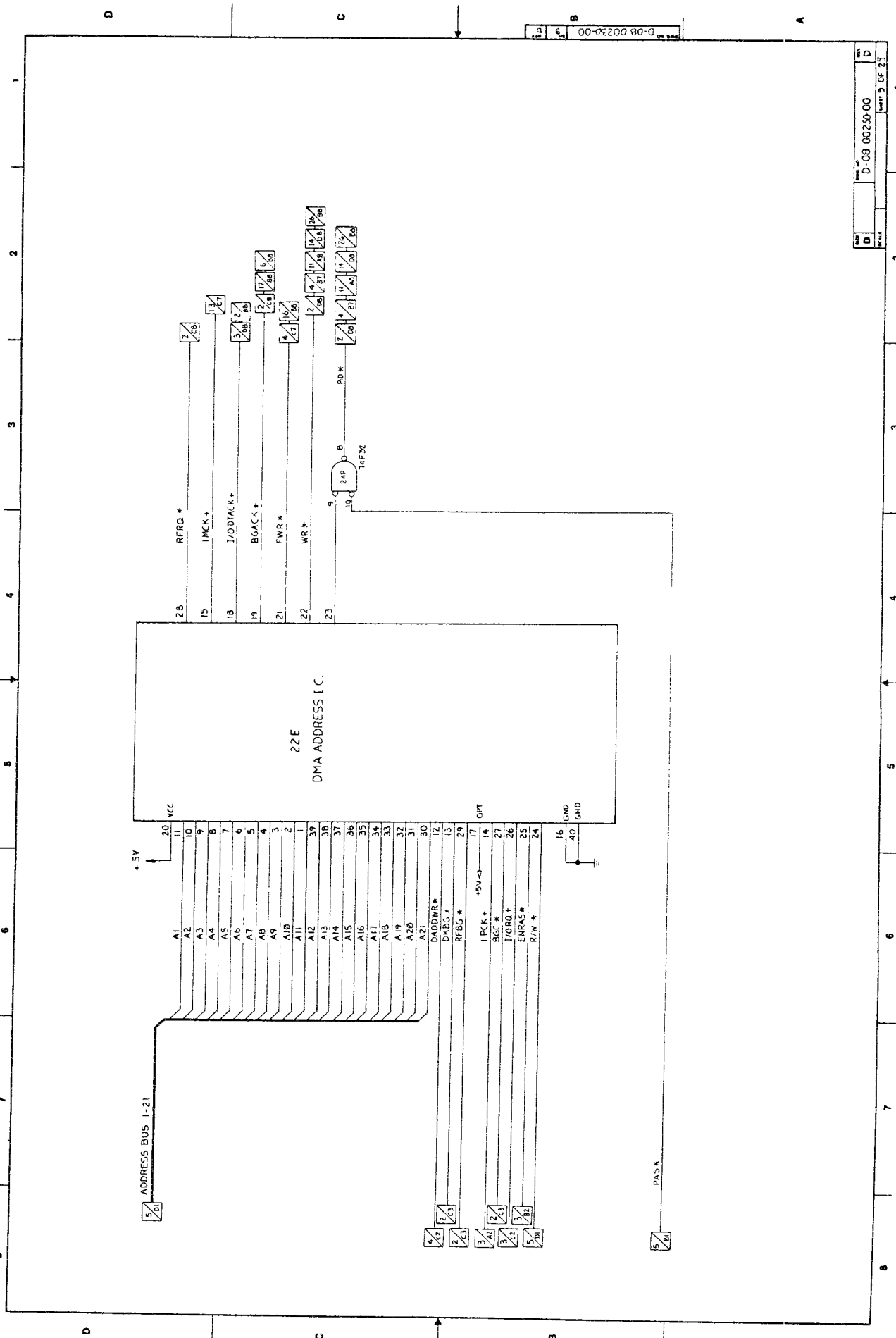
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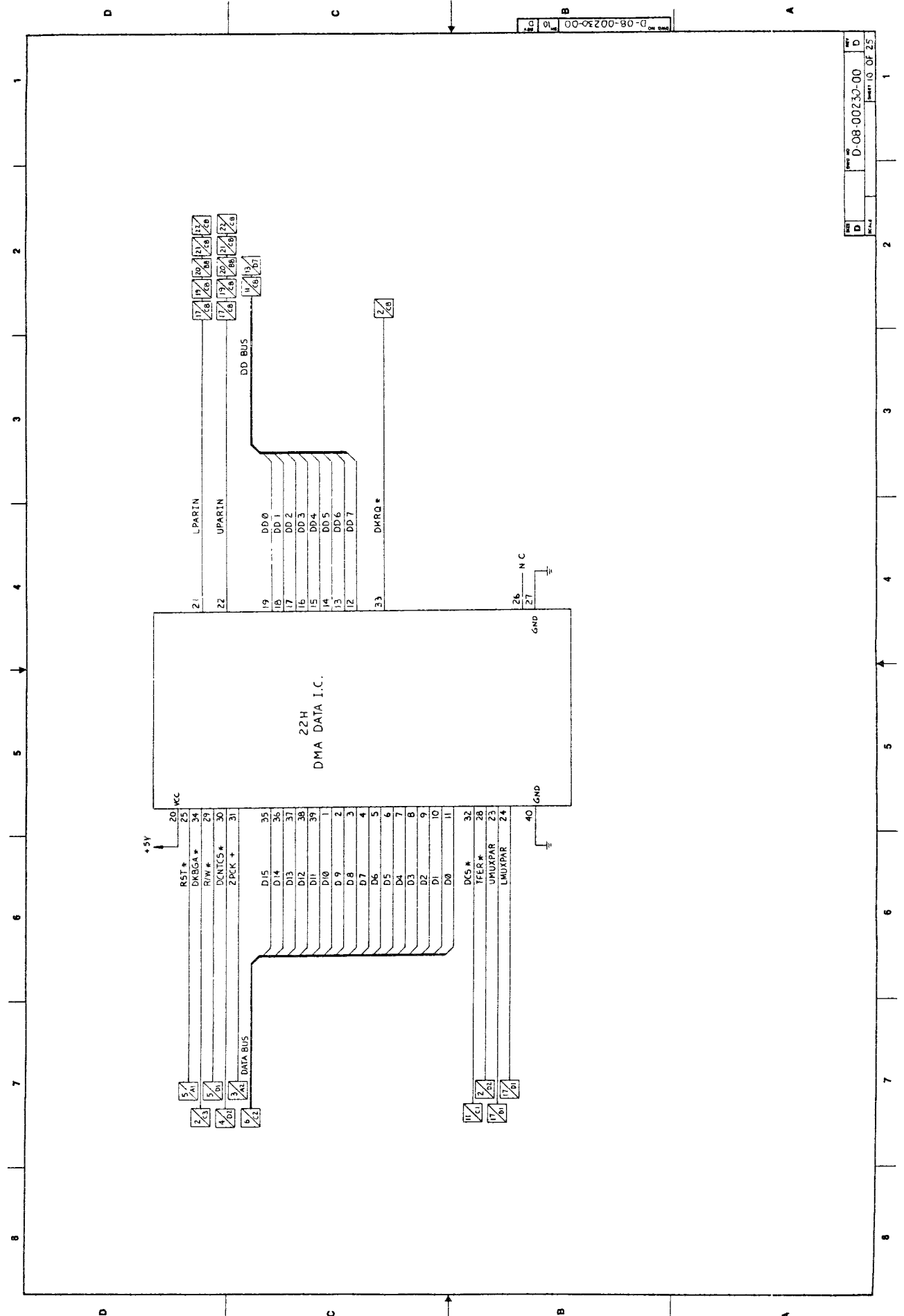


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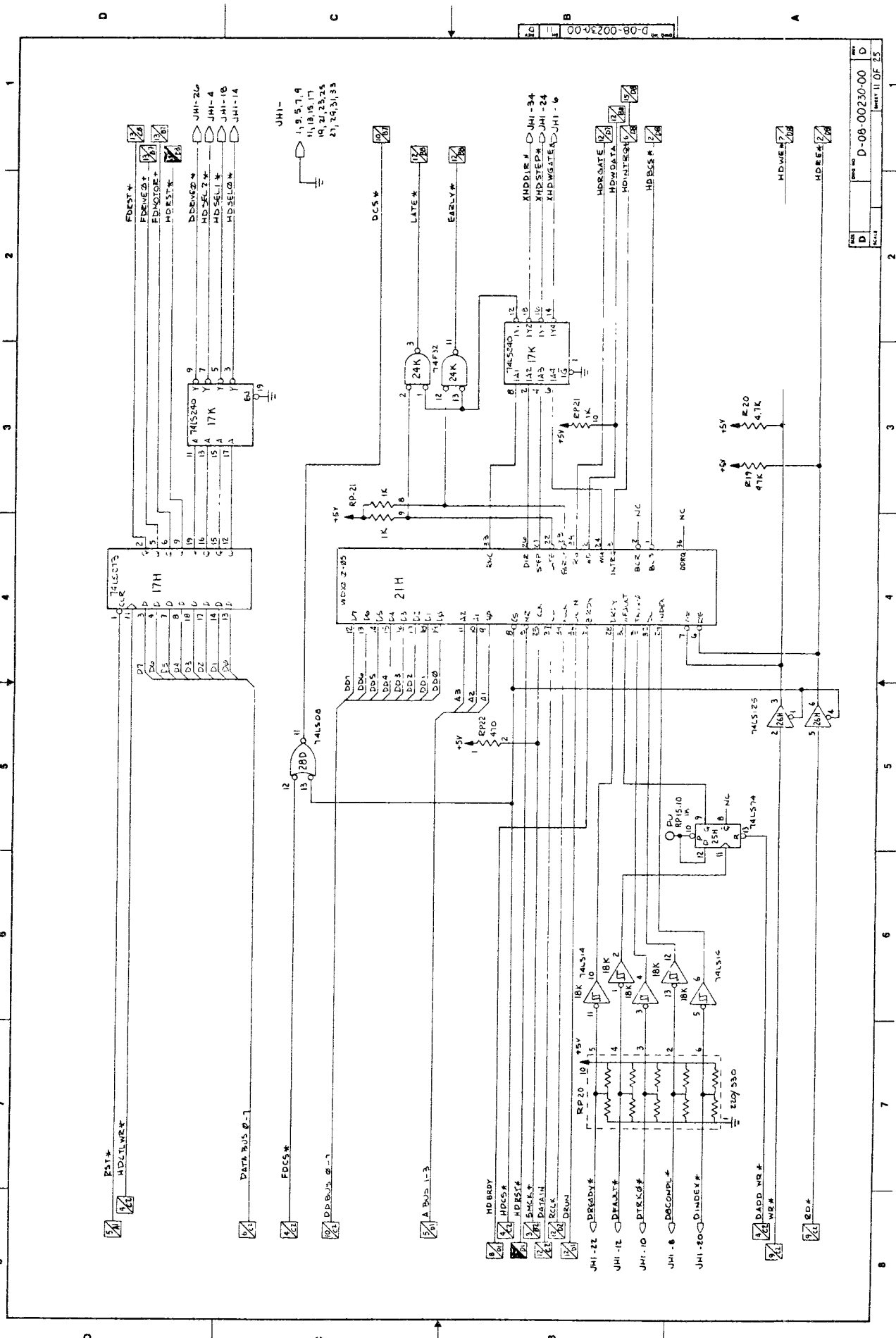




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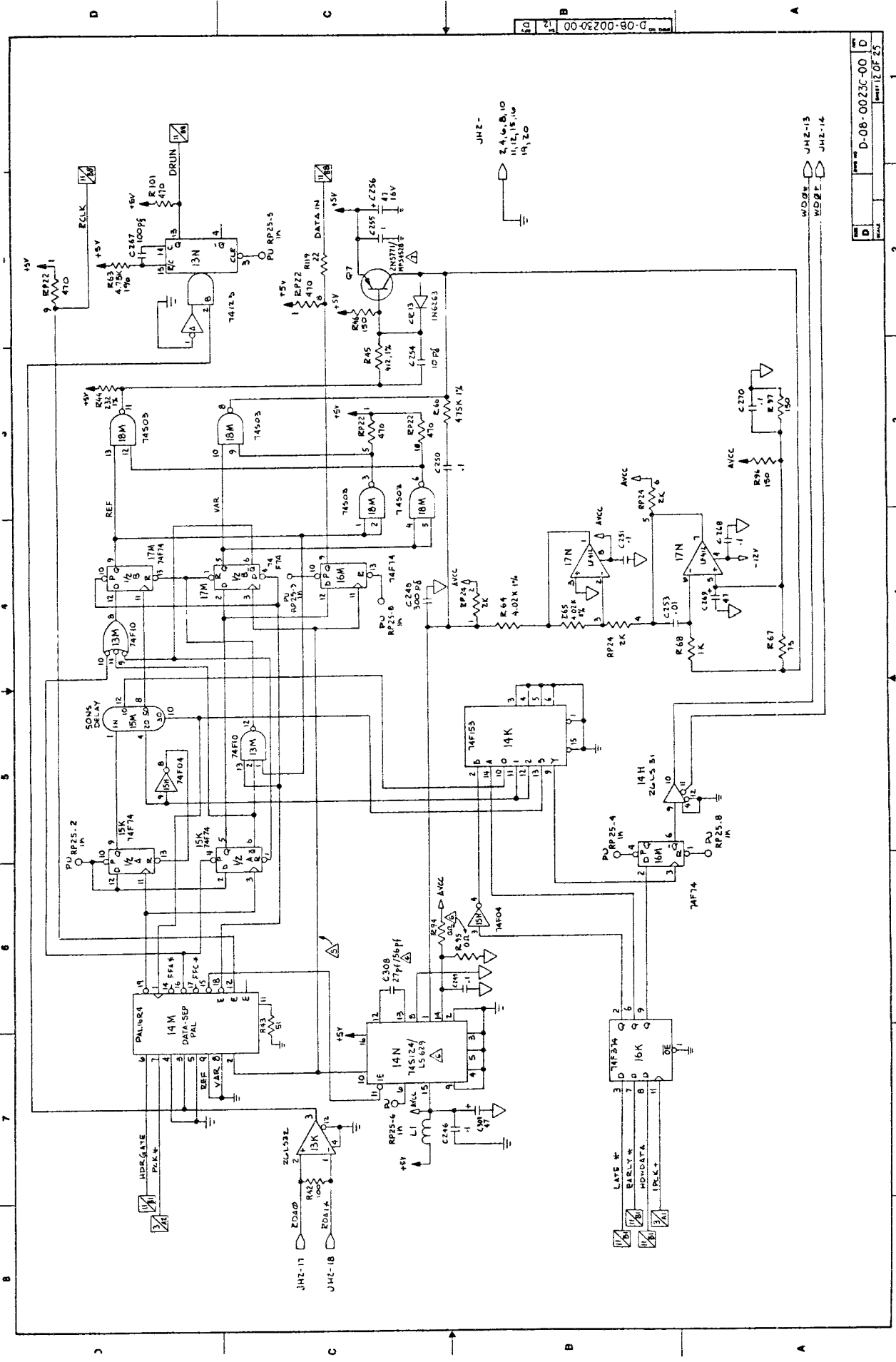


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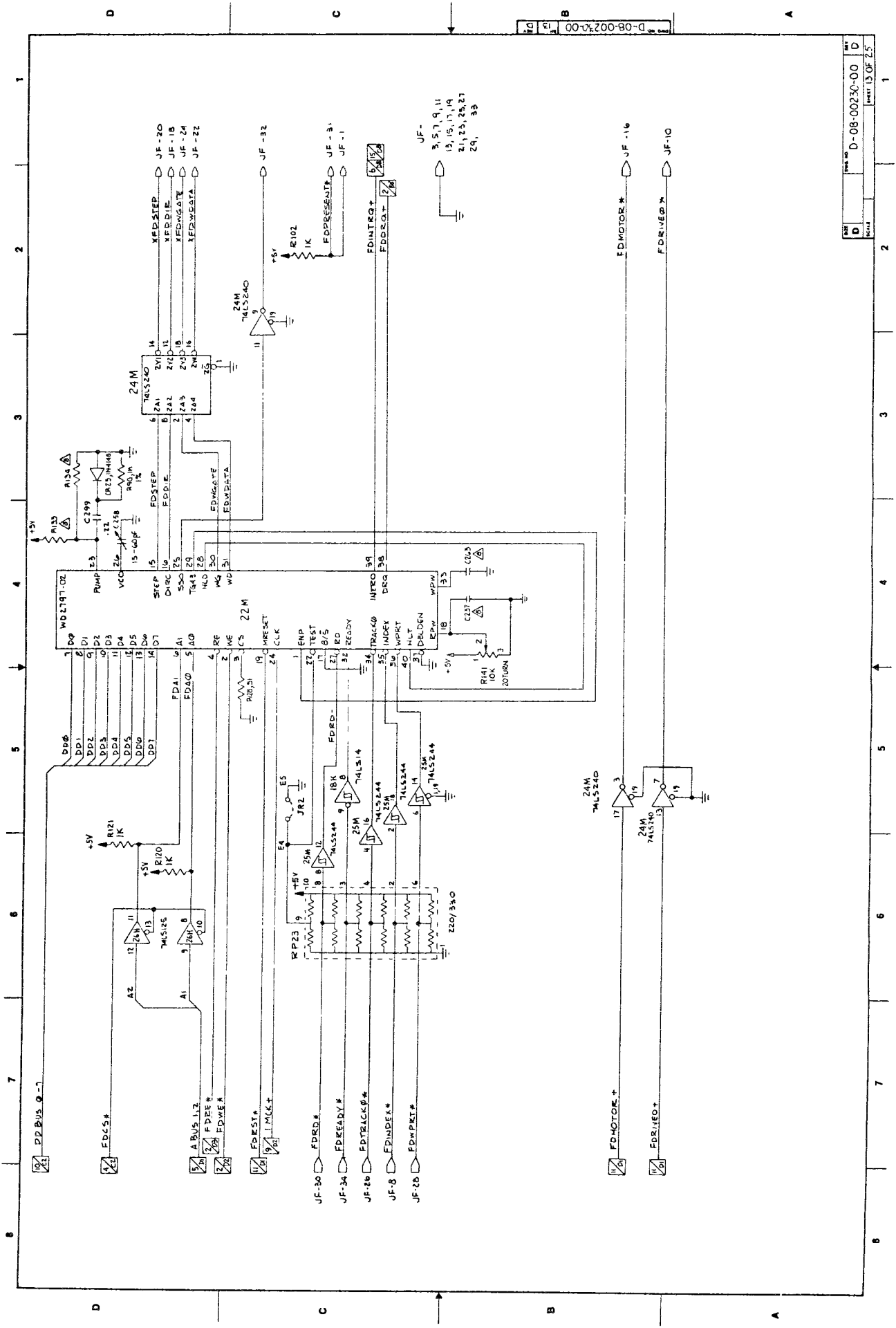
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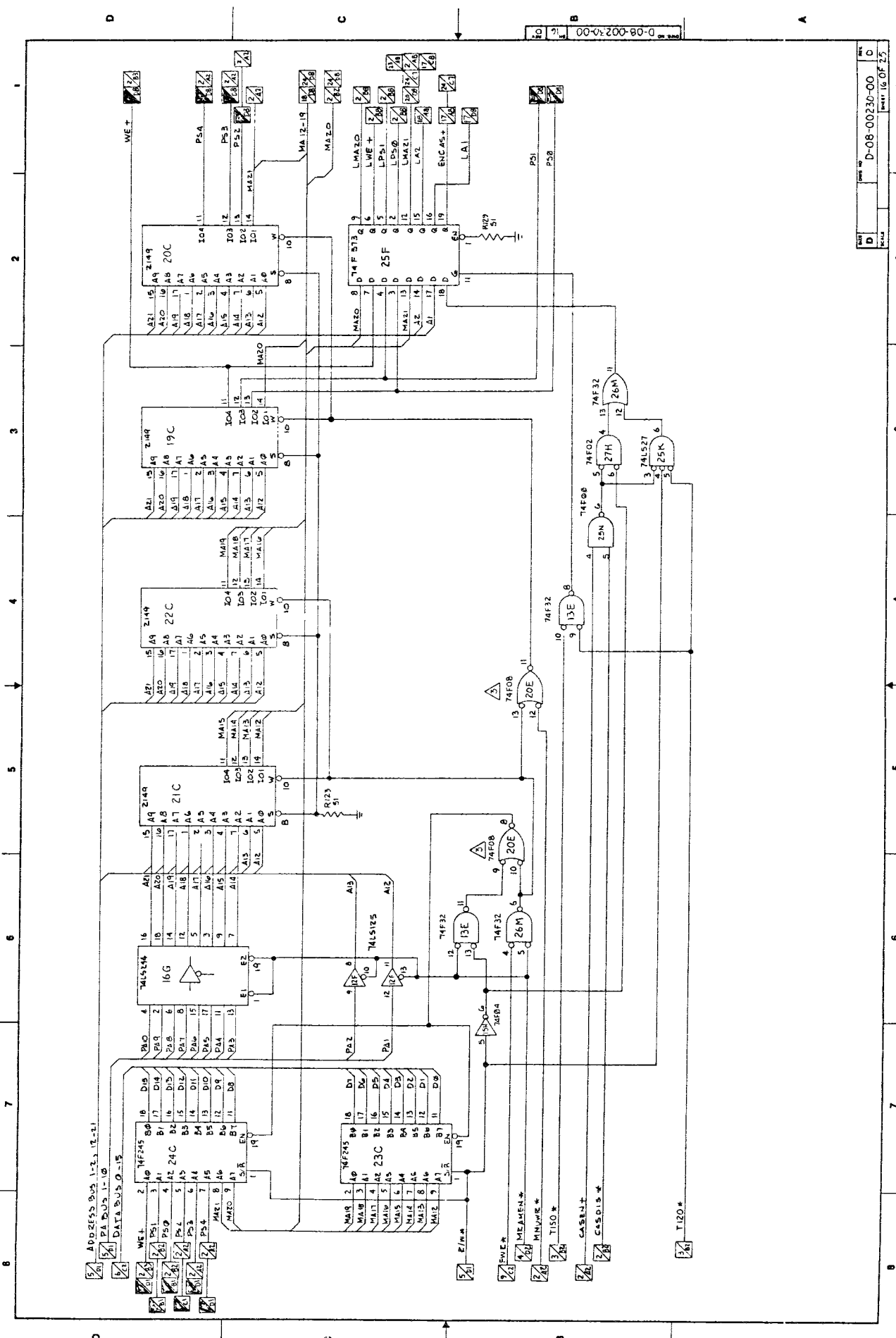


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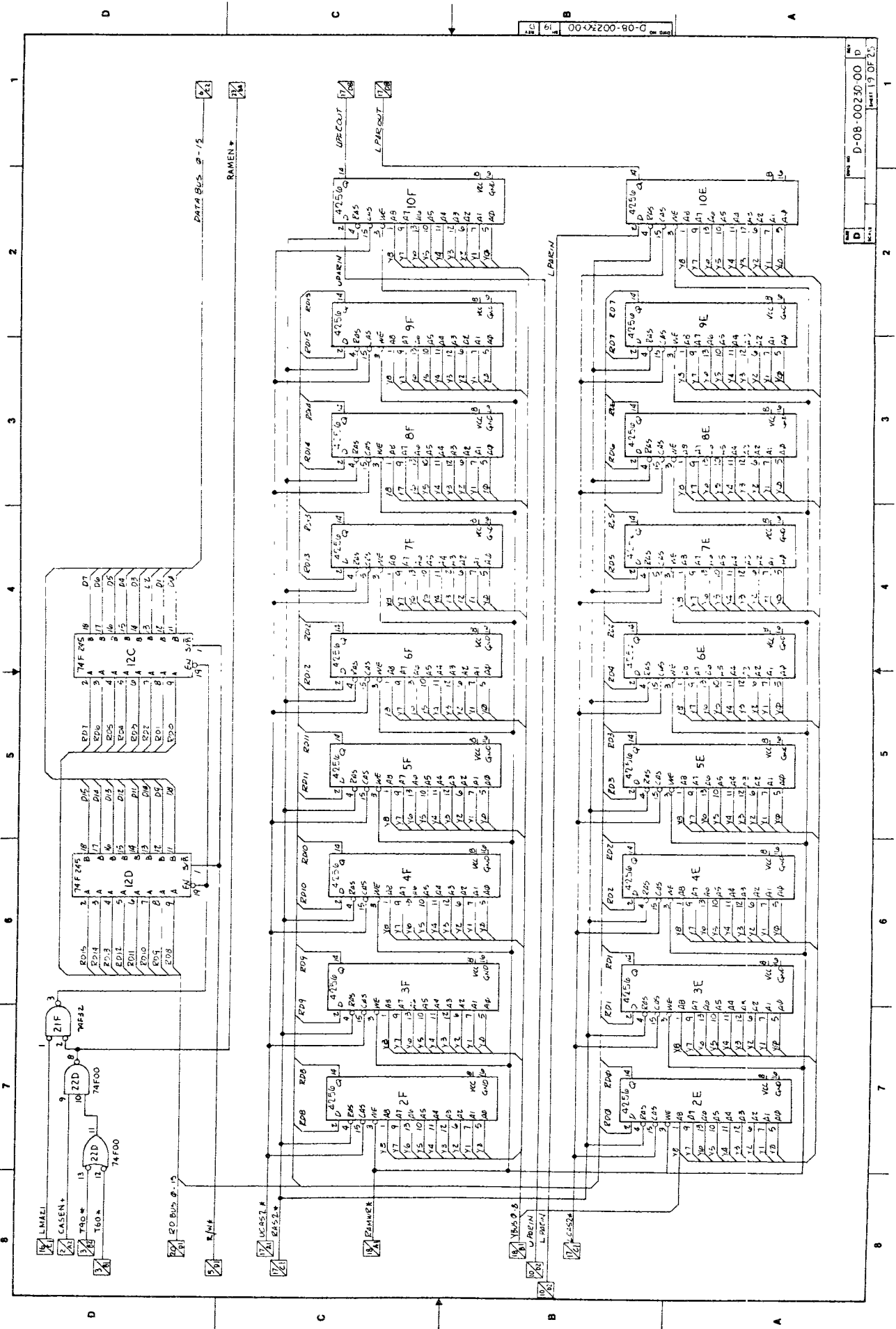
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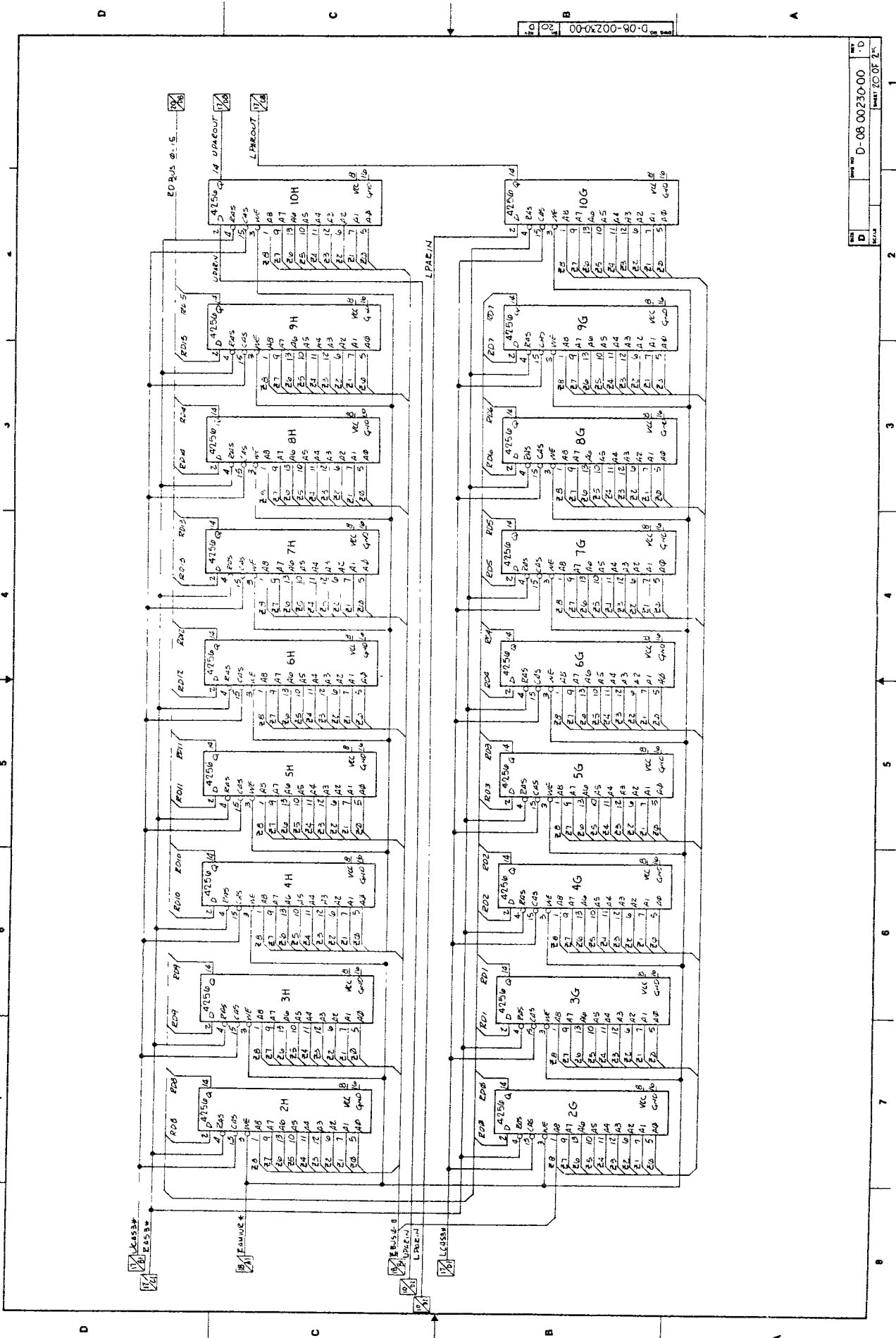


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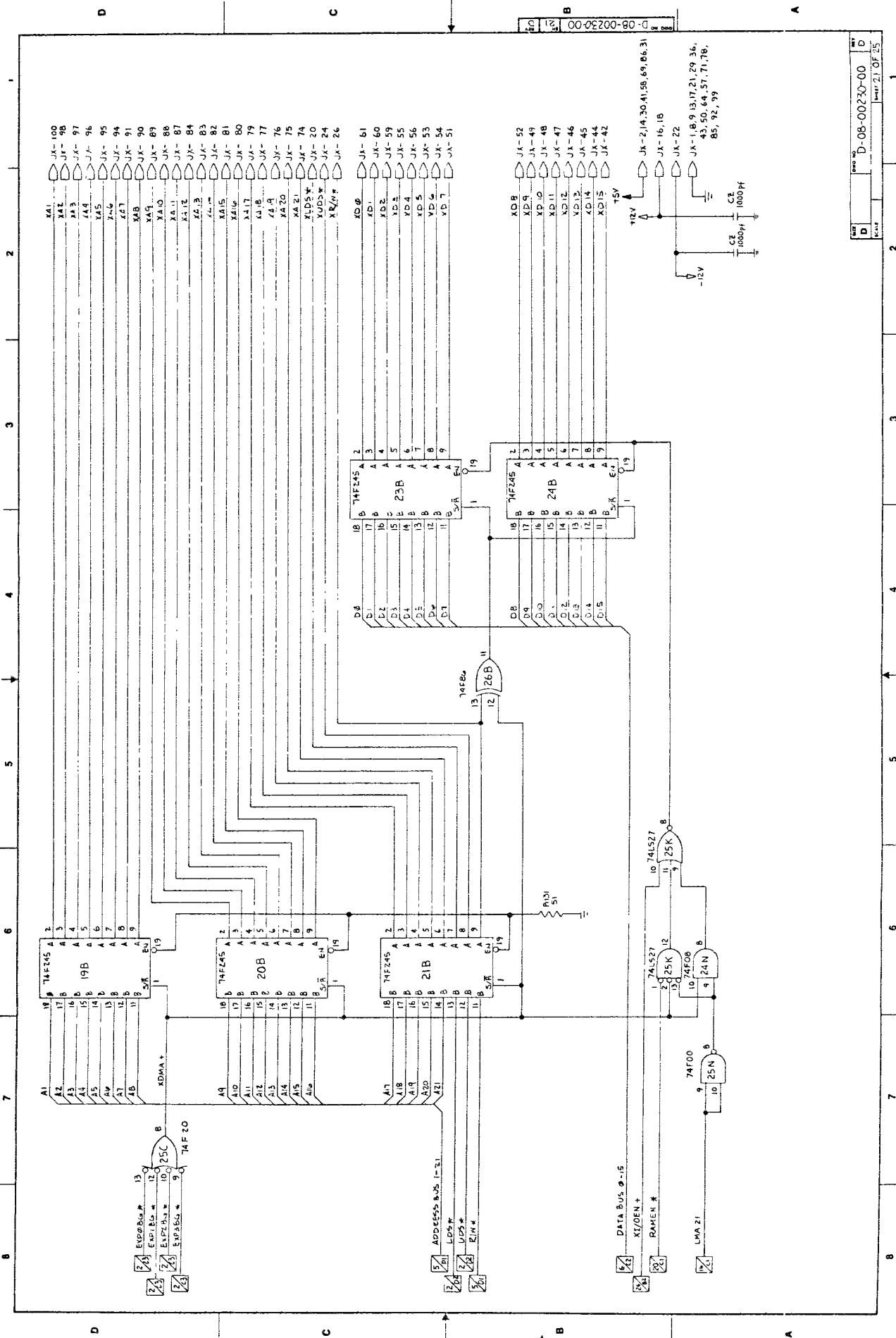
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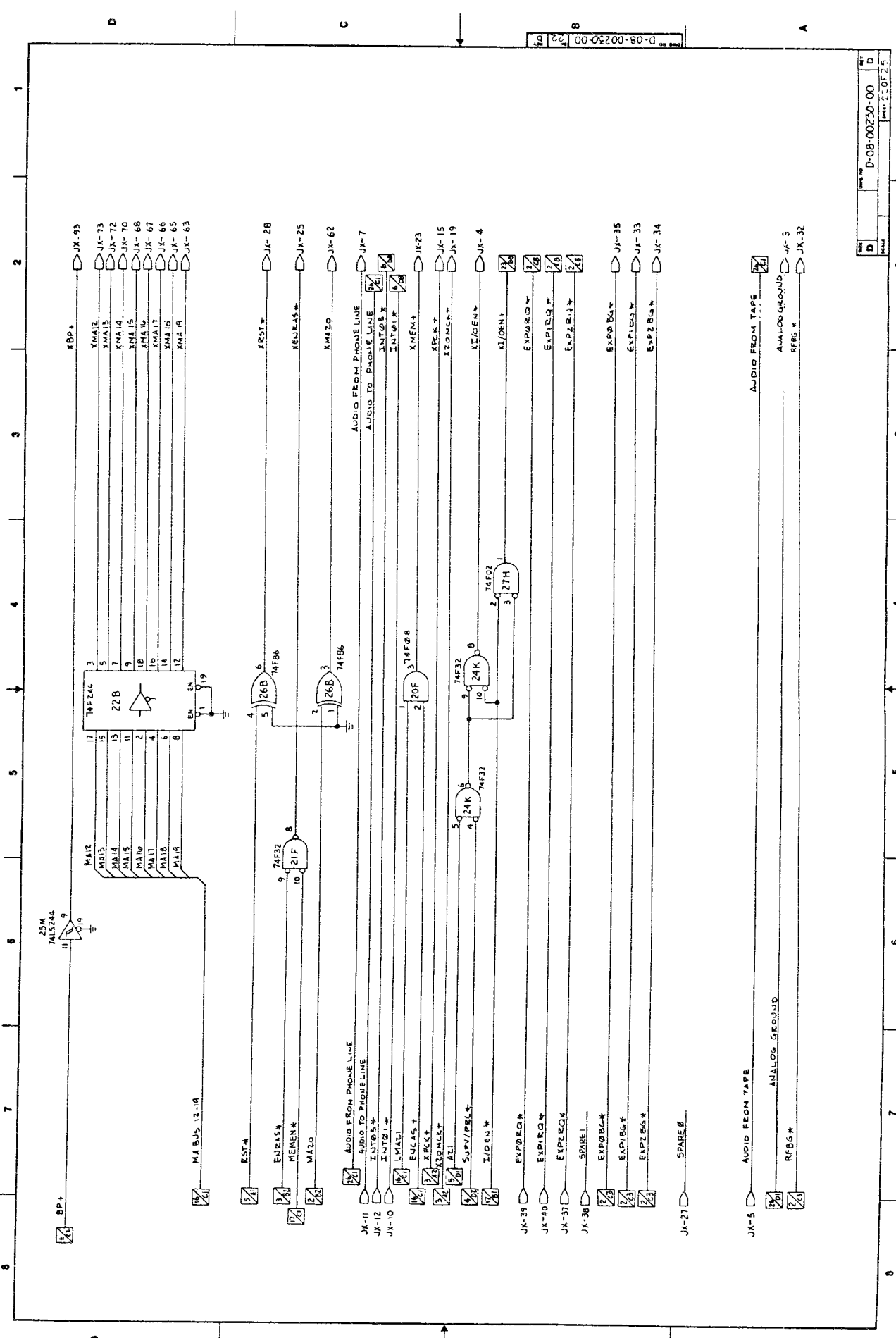
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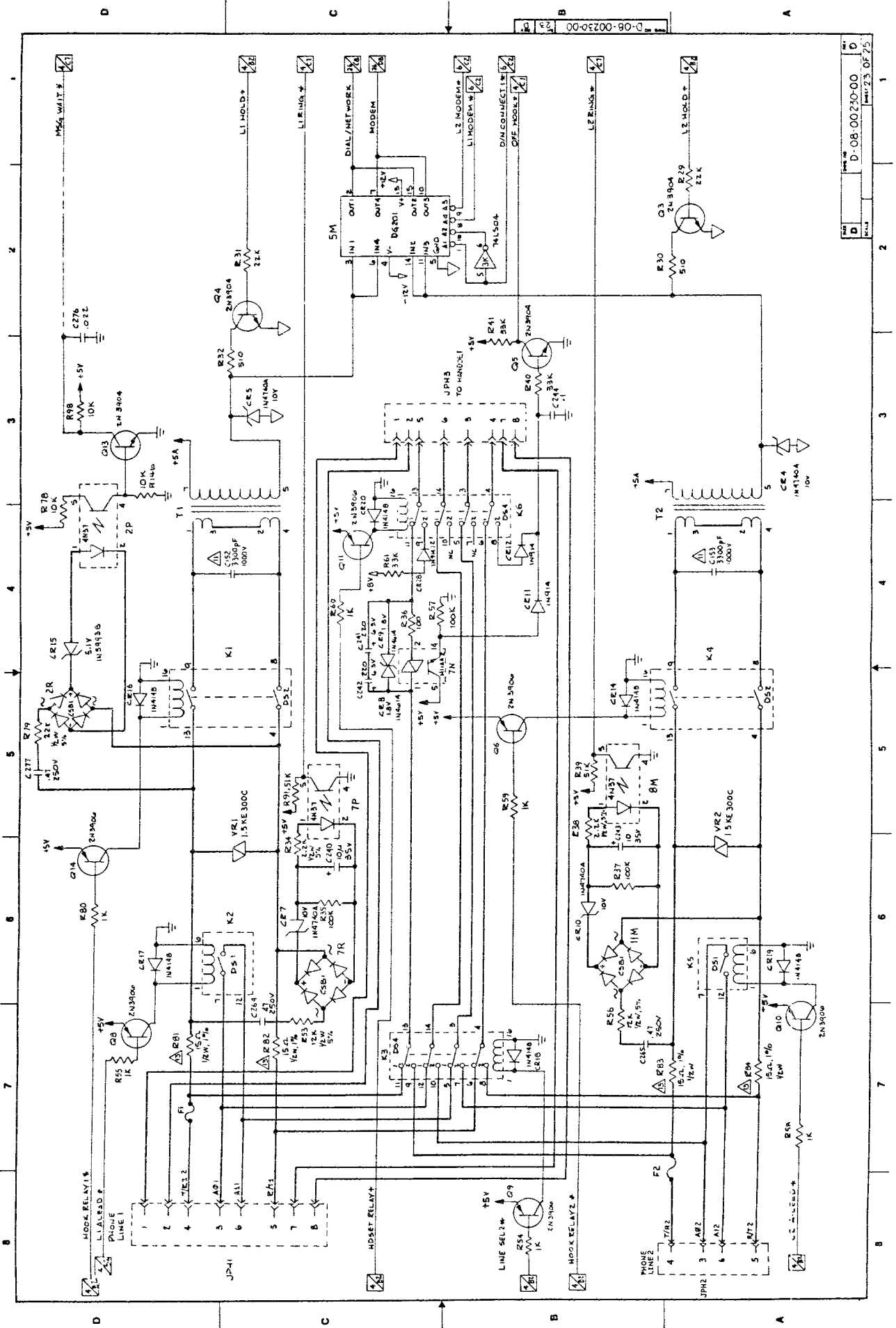


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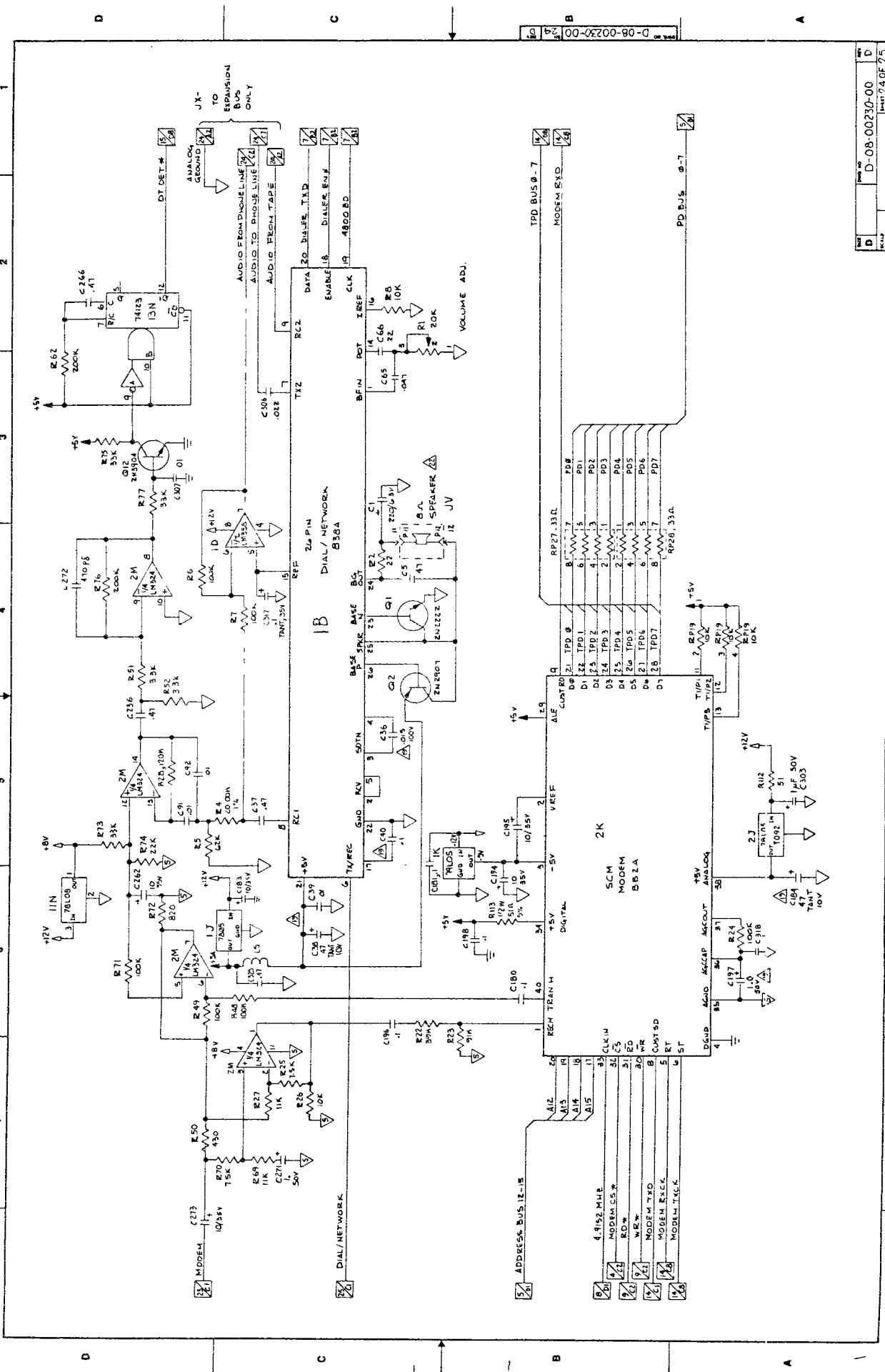
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