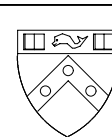


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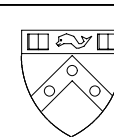
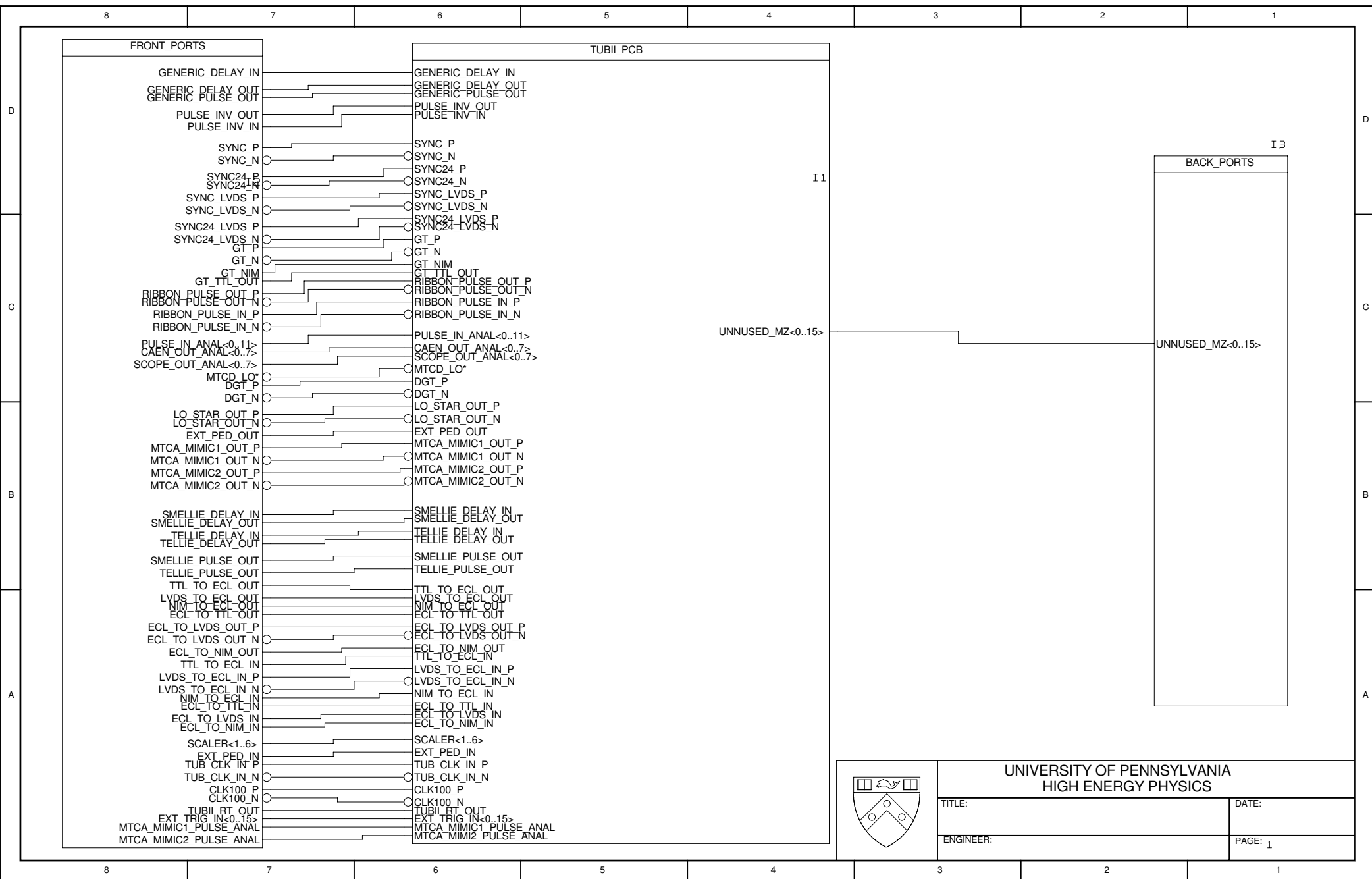
UNIVERSITY OF PENNSYLVANIA
HIGH ENERGY PHYSICS

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DATE: 5-3-15

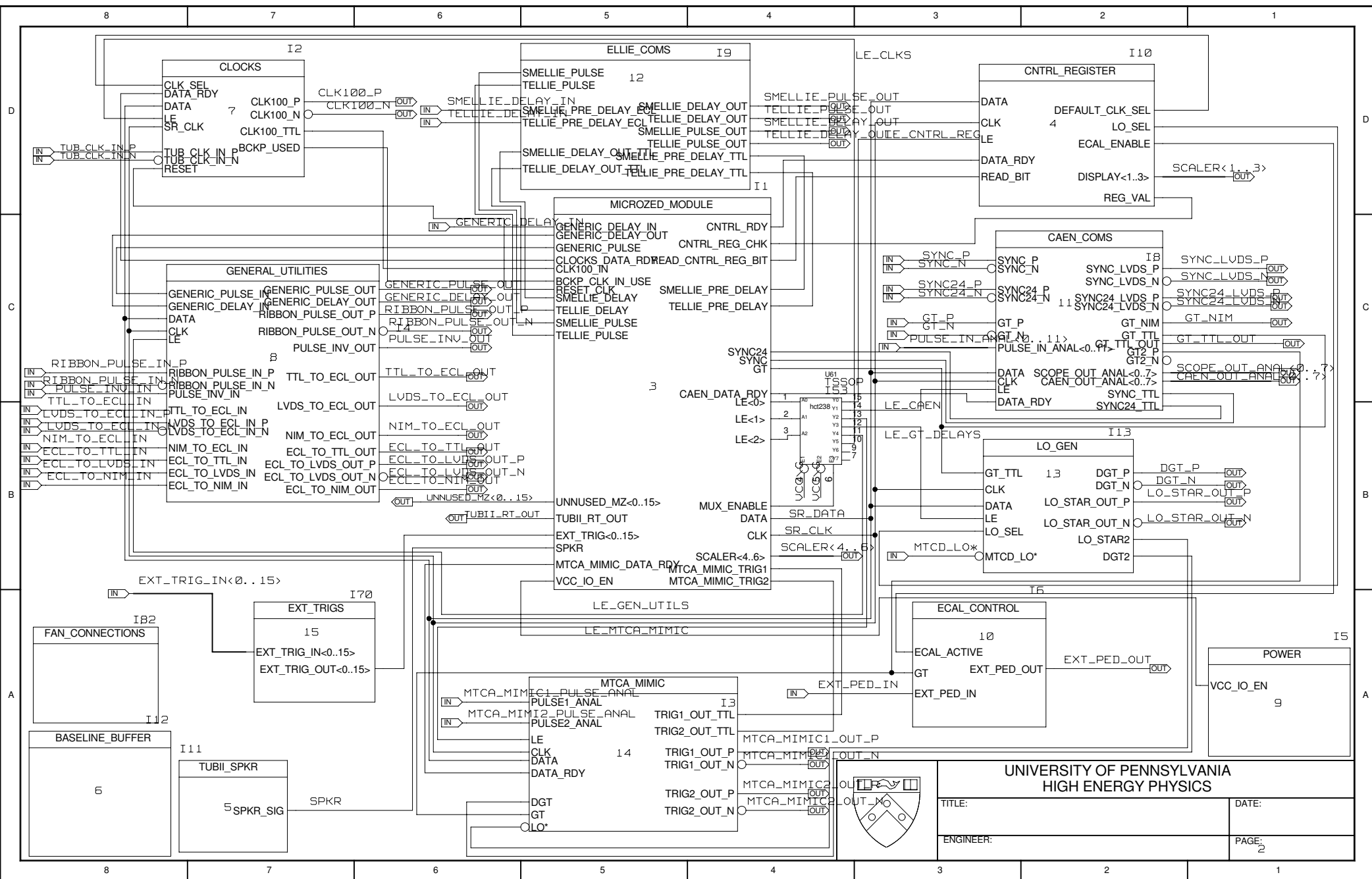
ENGINEER: ERIC MARZEC

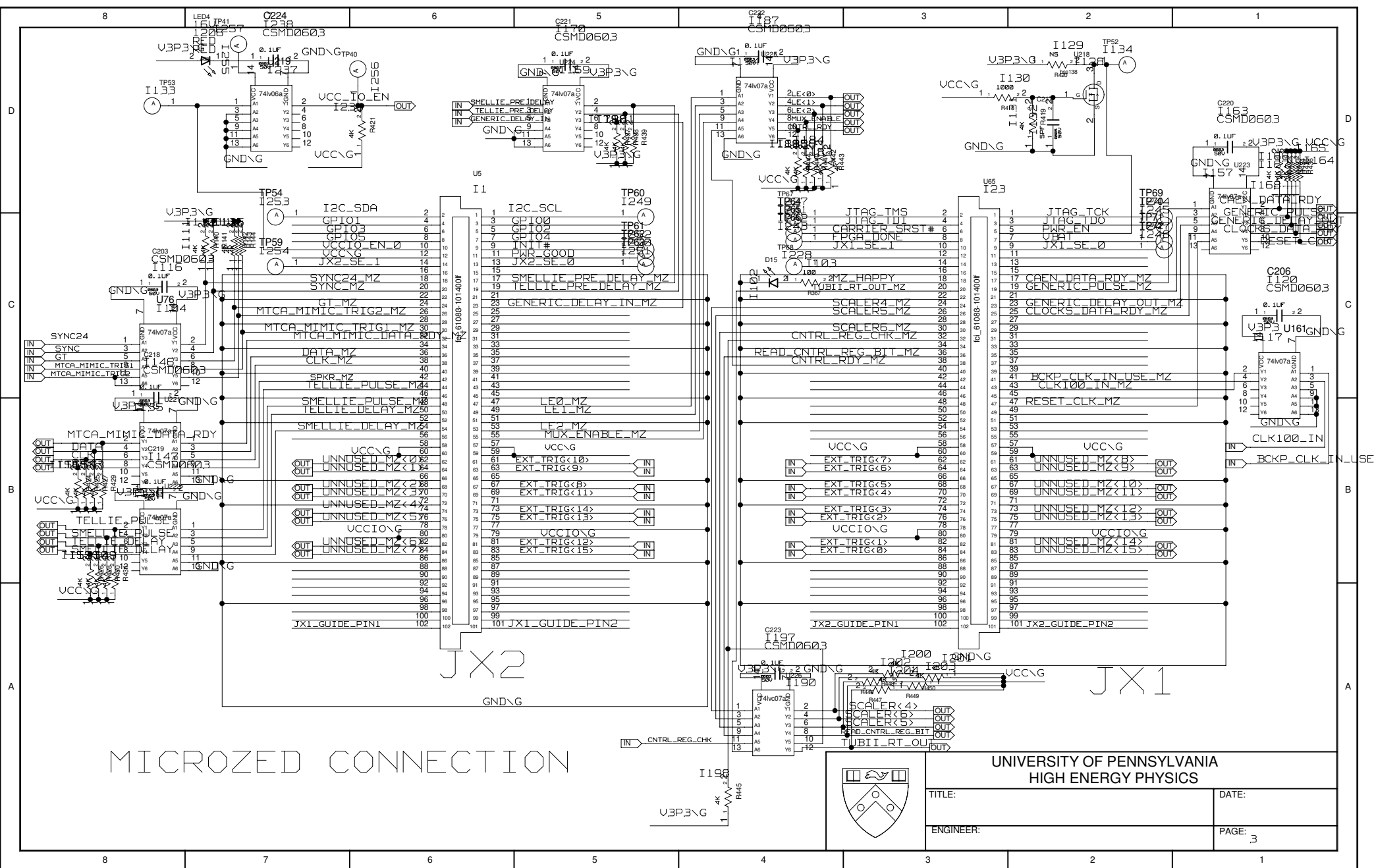
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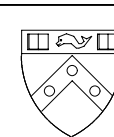
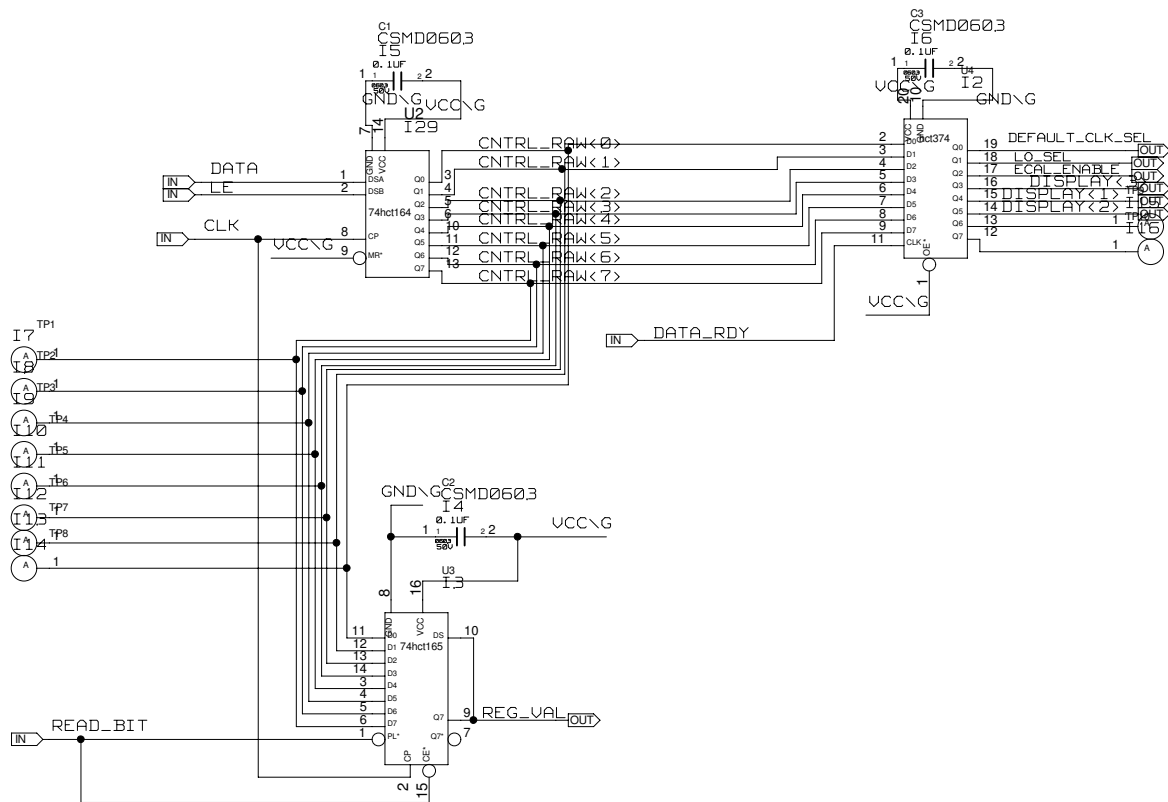
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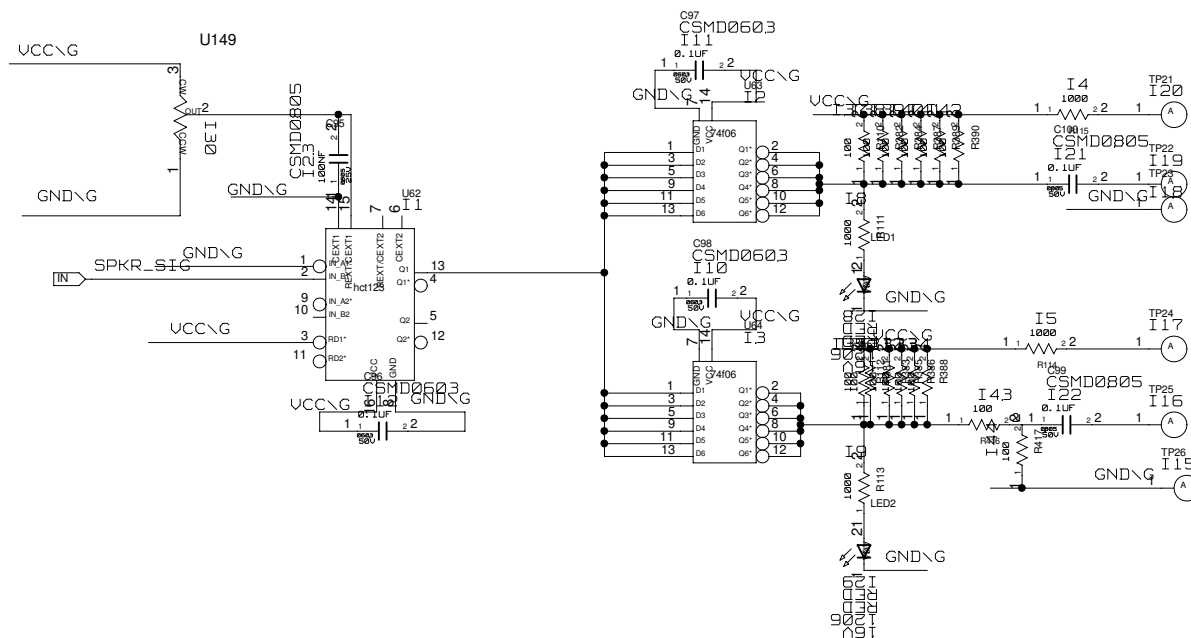
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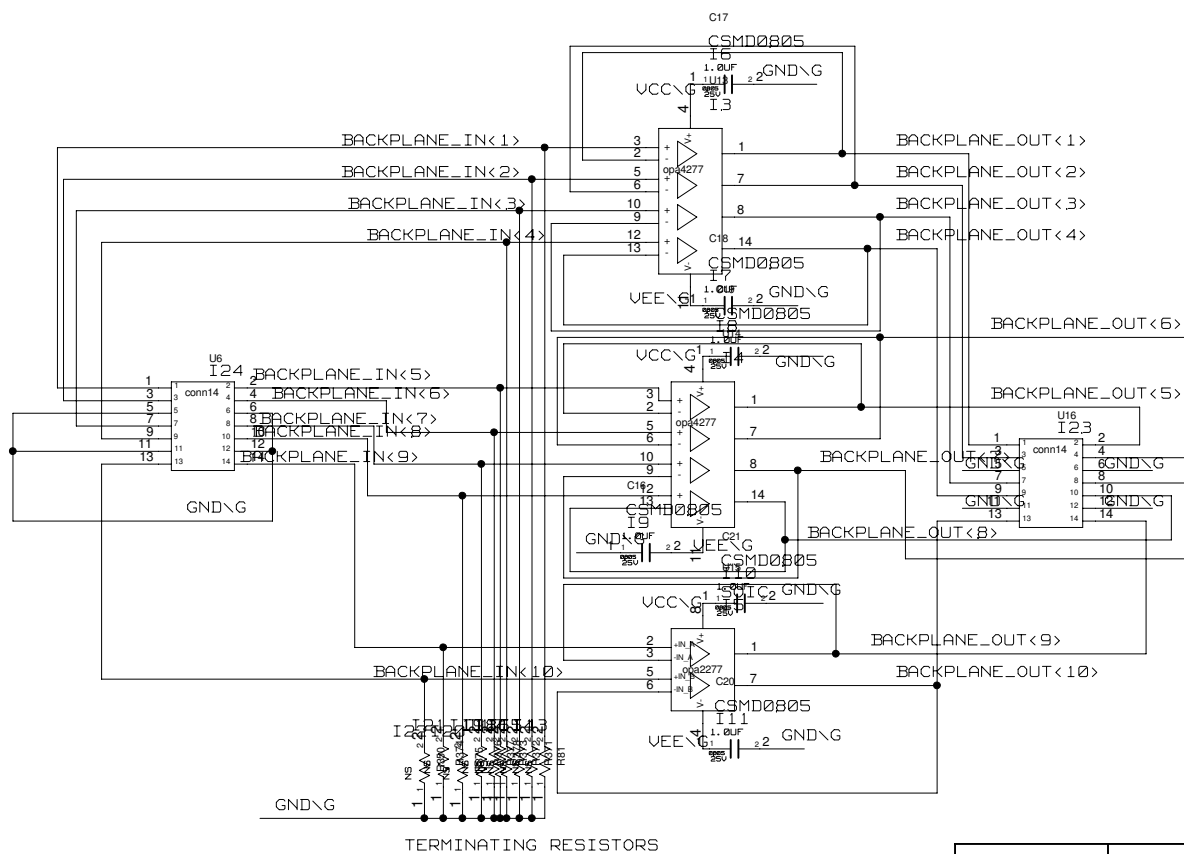
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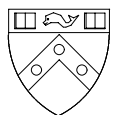
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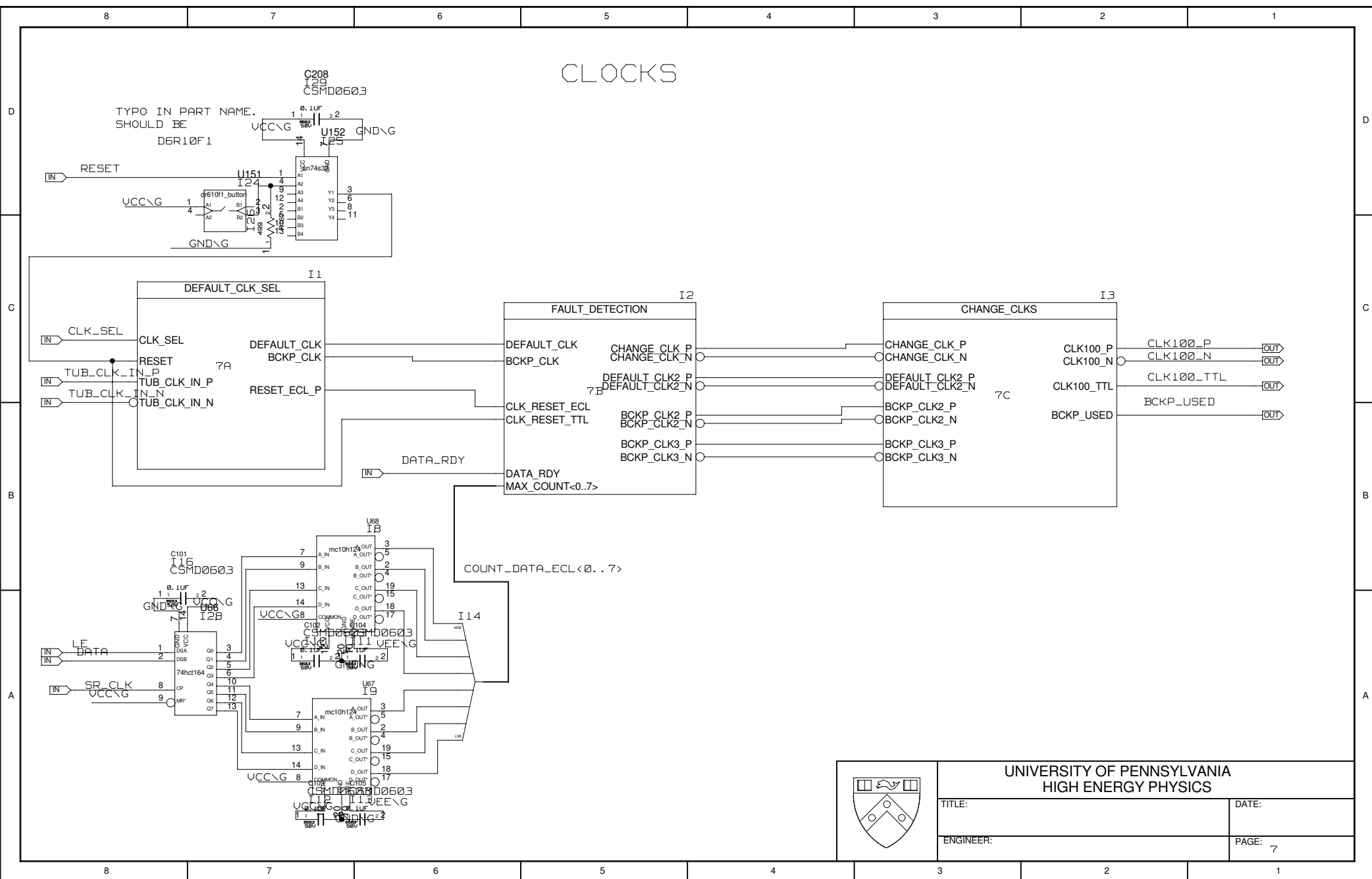
SPEAKER



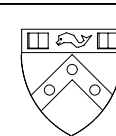
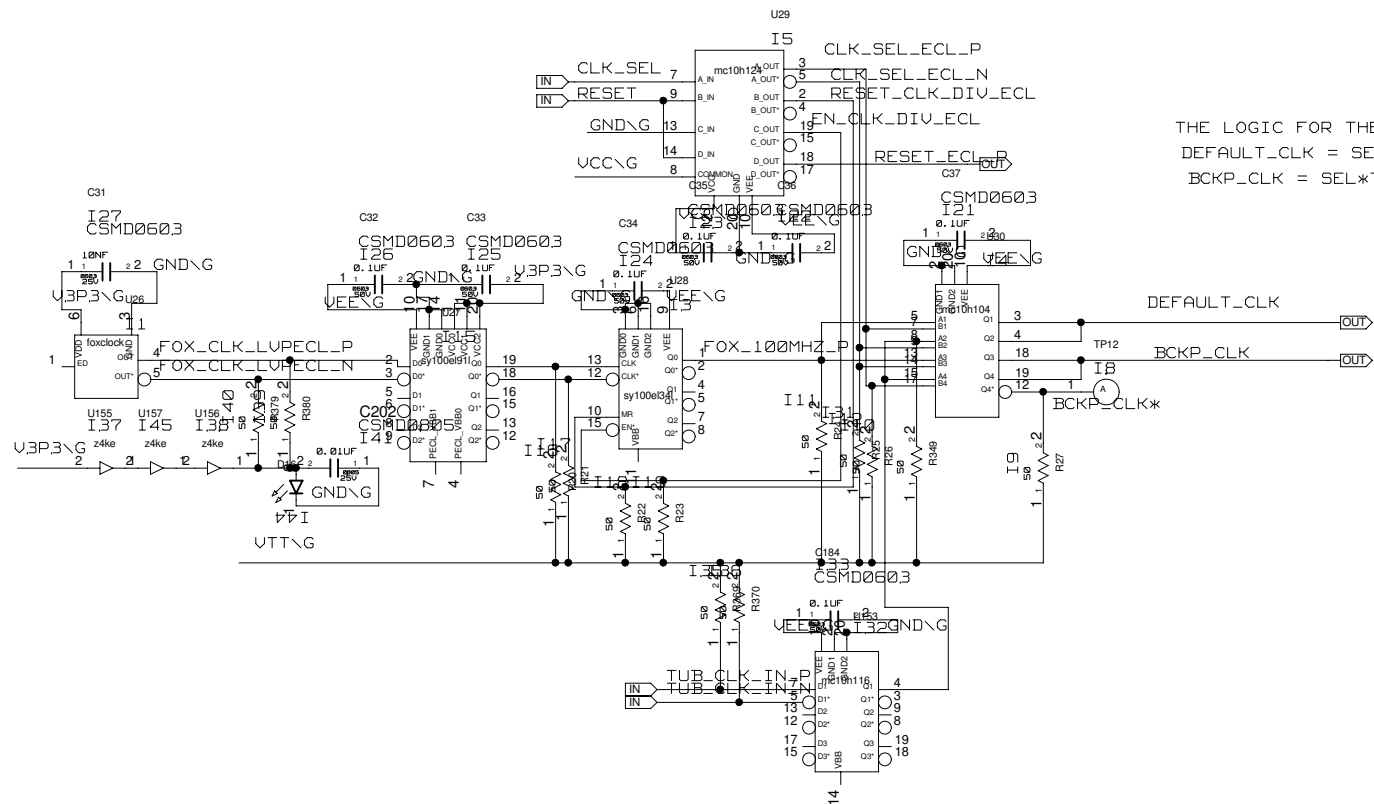
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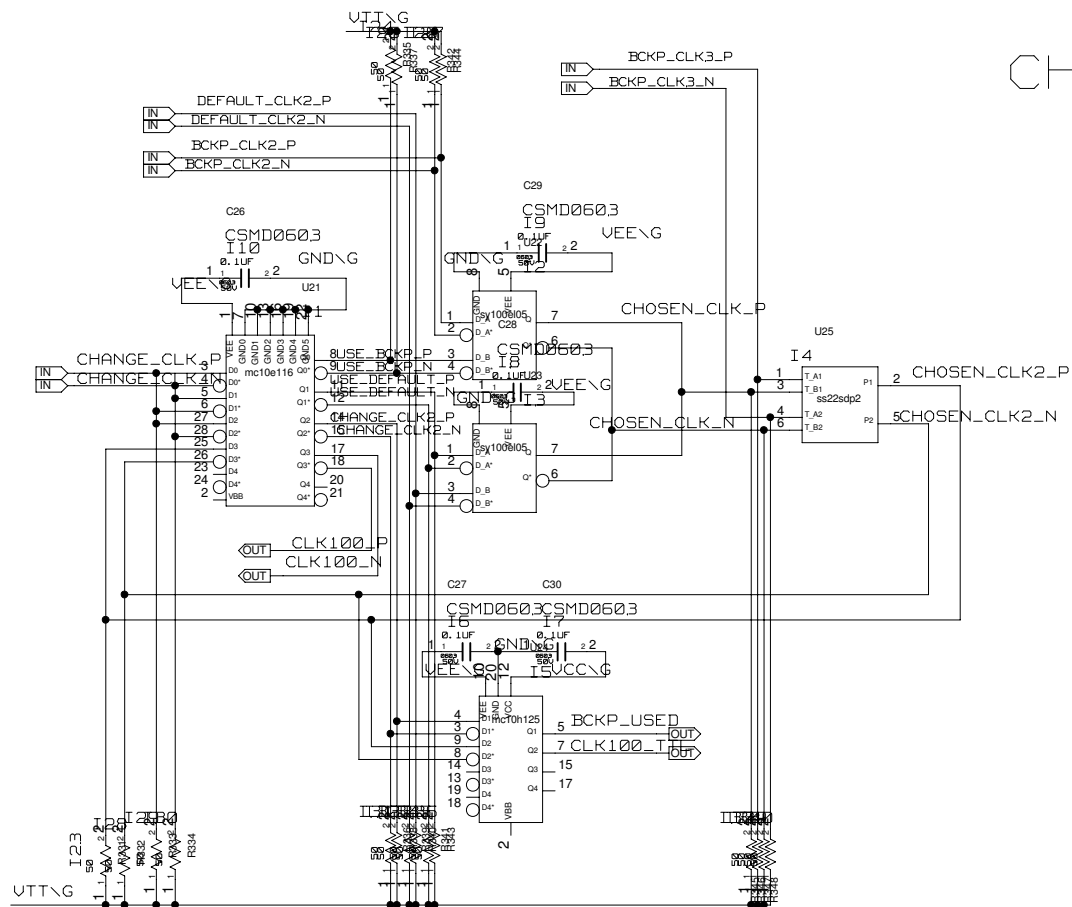


DEFAULT CLOCK SELECT

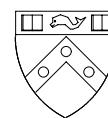


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CHANGE CLOCKS



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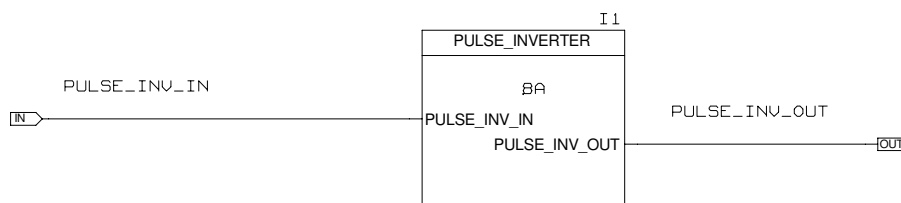
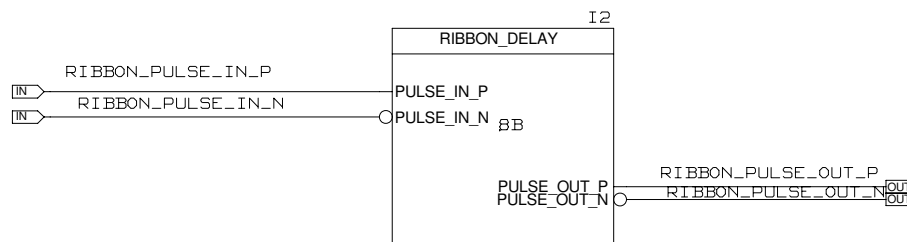
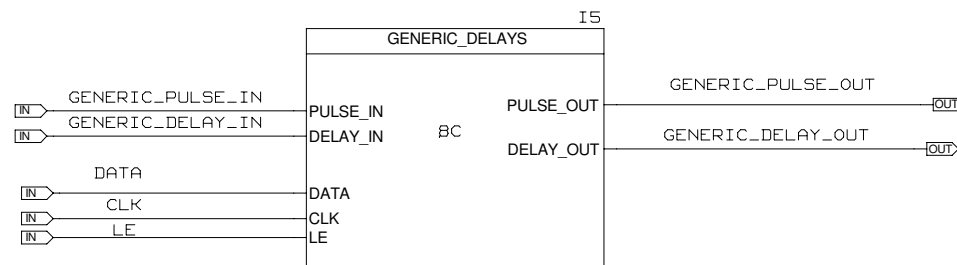
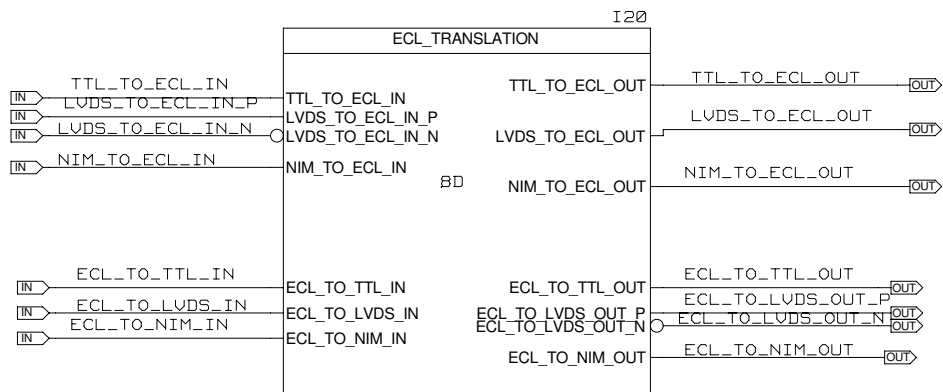
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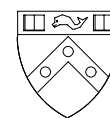
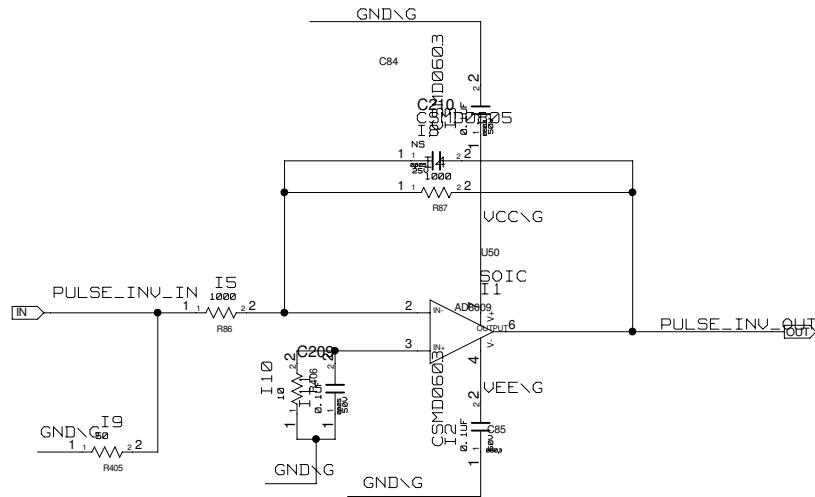
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GENERAL UTILITIES



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PULSE_INVERTER

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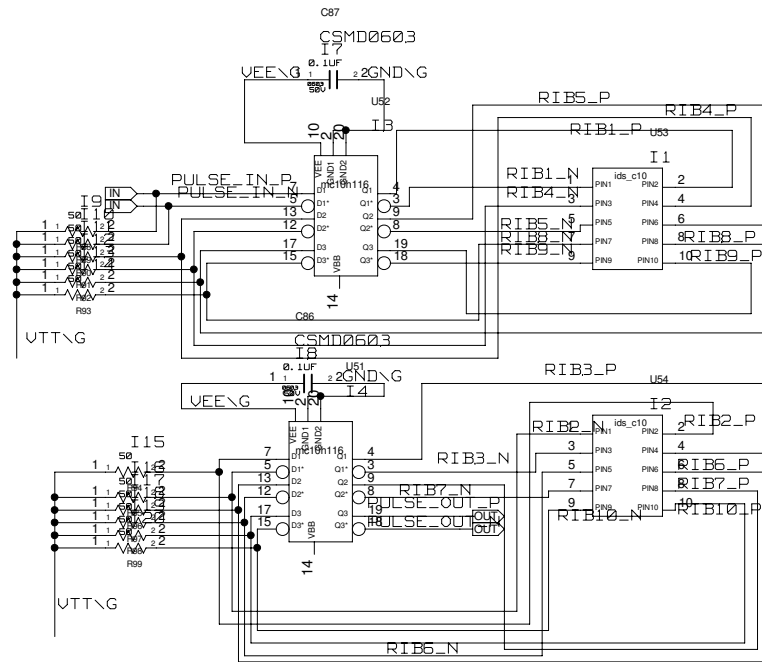
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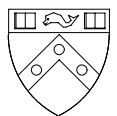
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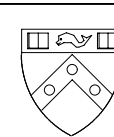
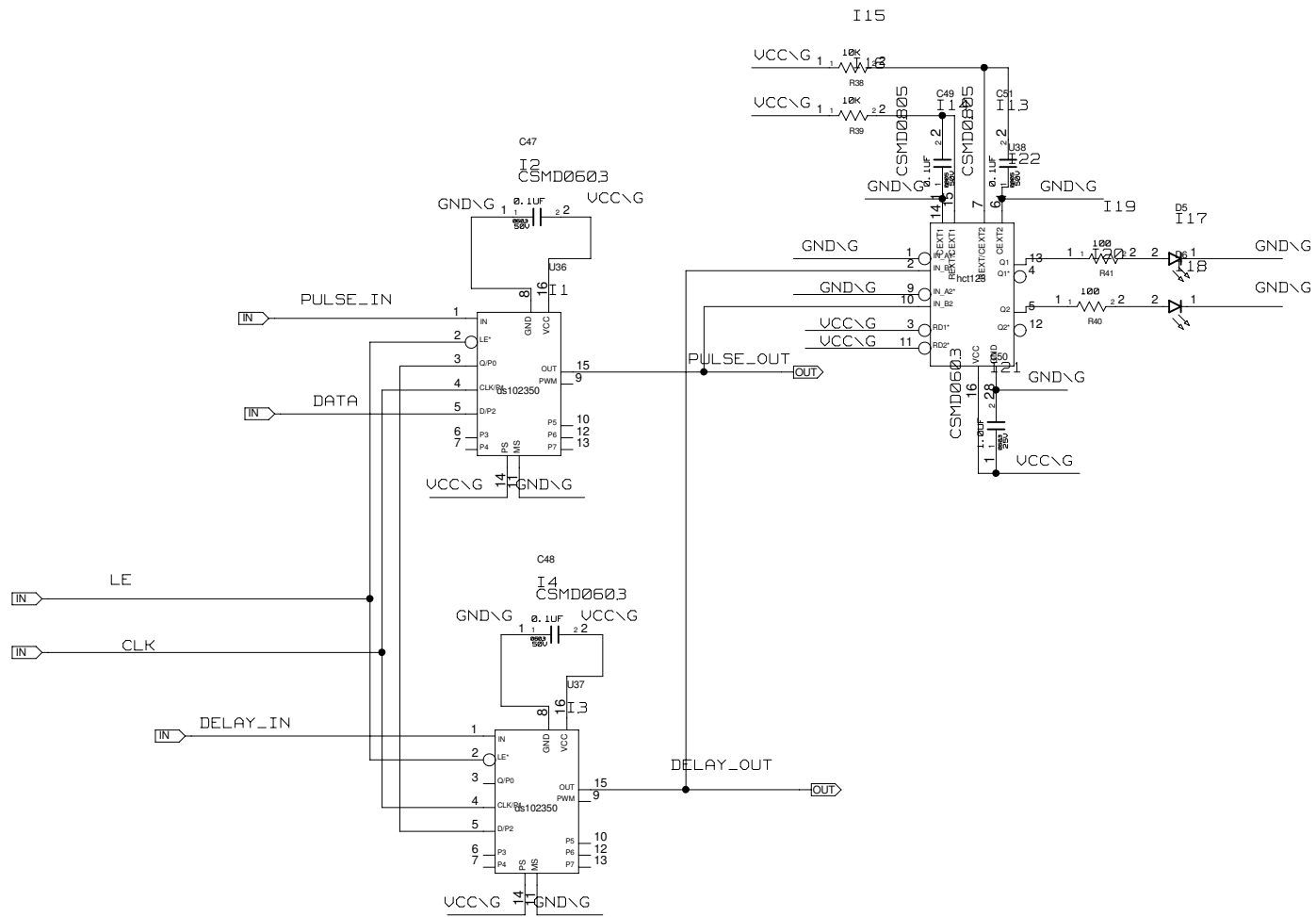
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RIBBON DELAY



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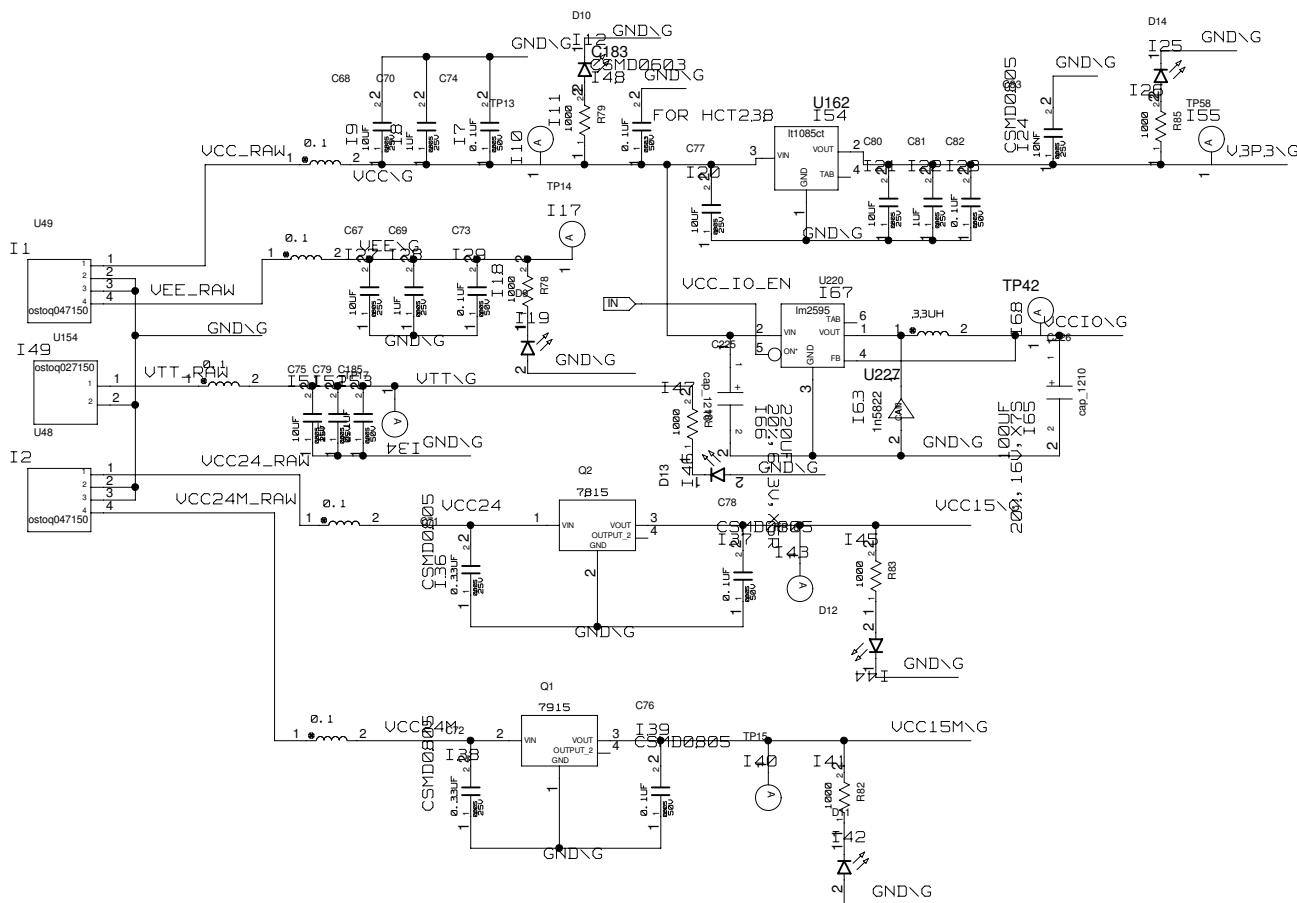
GENERIC DELAYS




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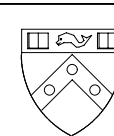
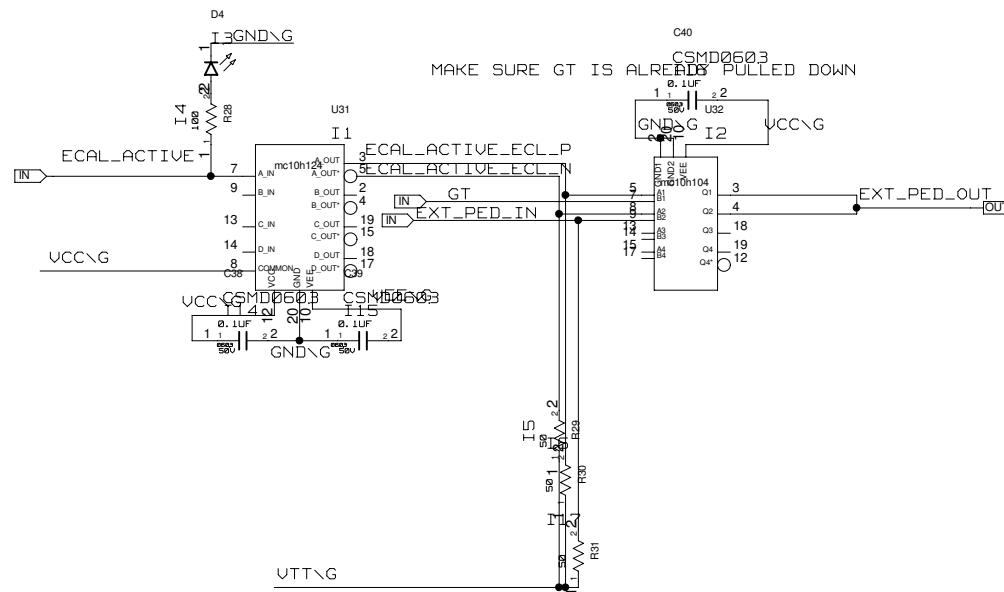
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POWER



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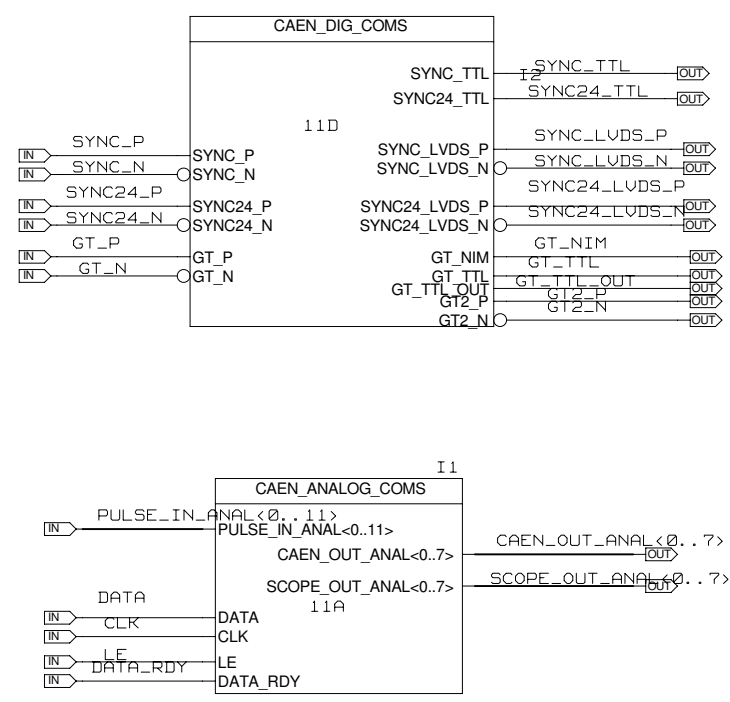
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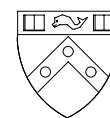
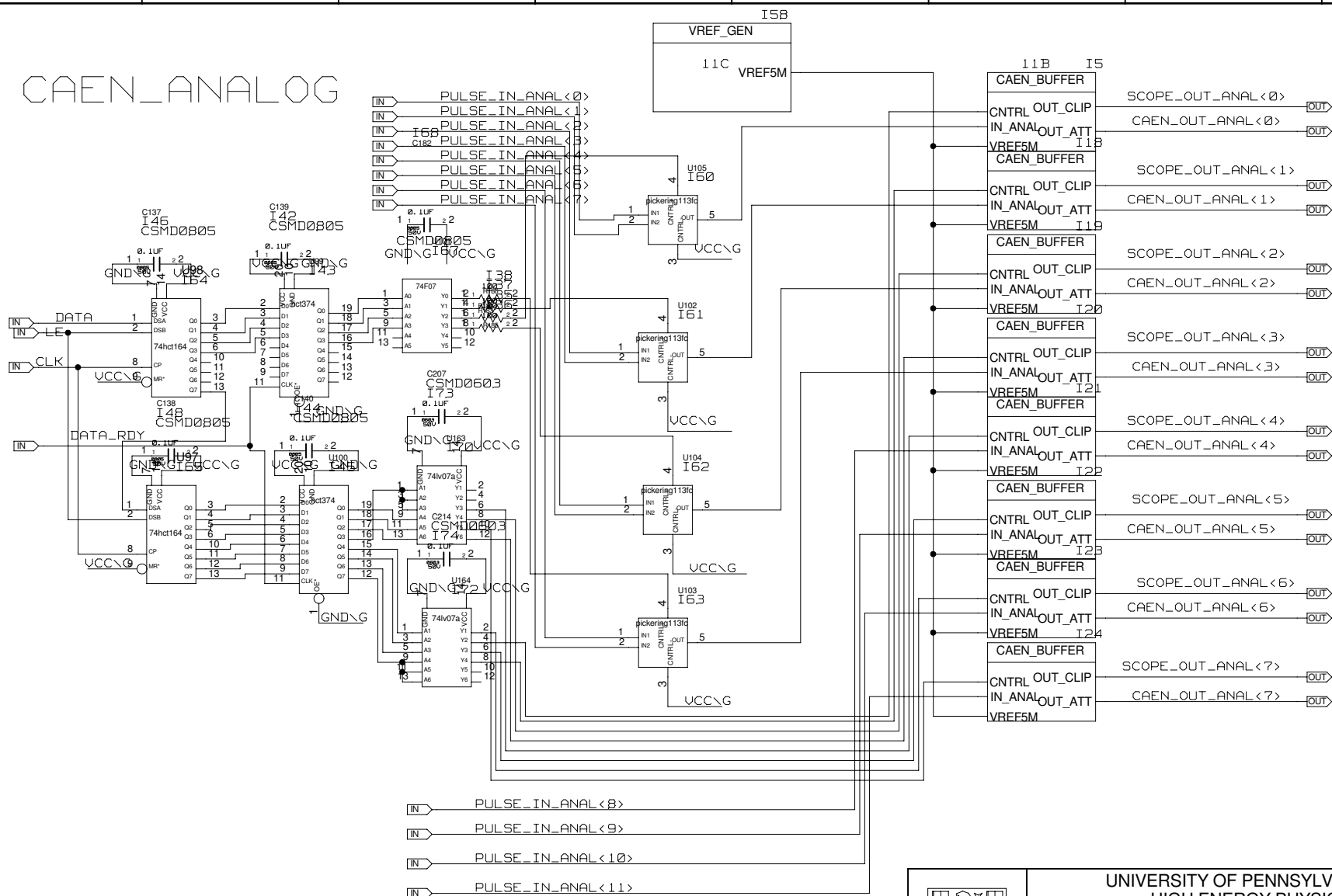
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CAEN COMMS

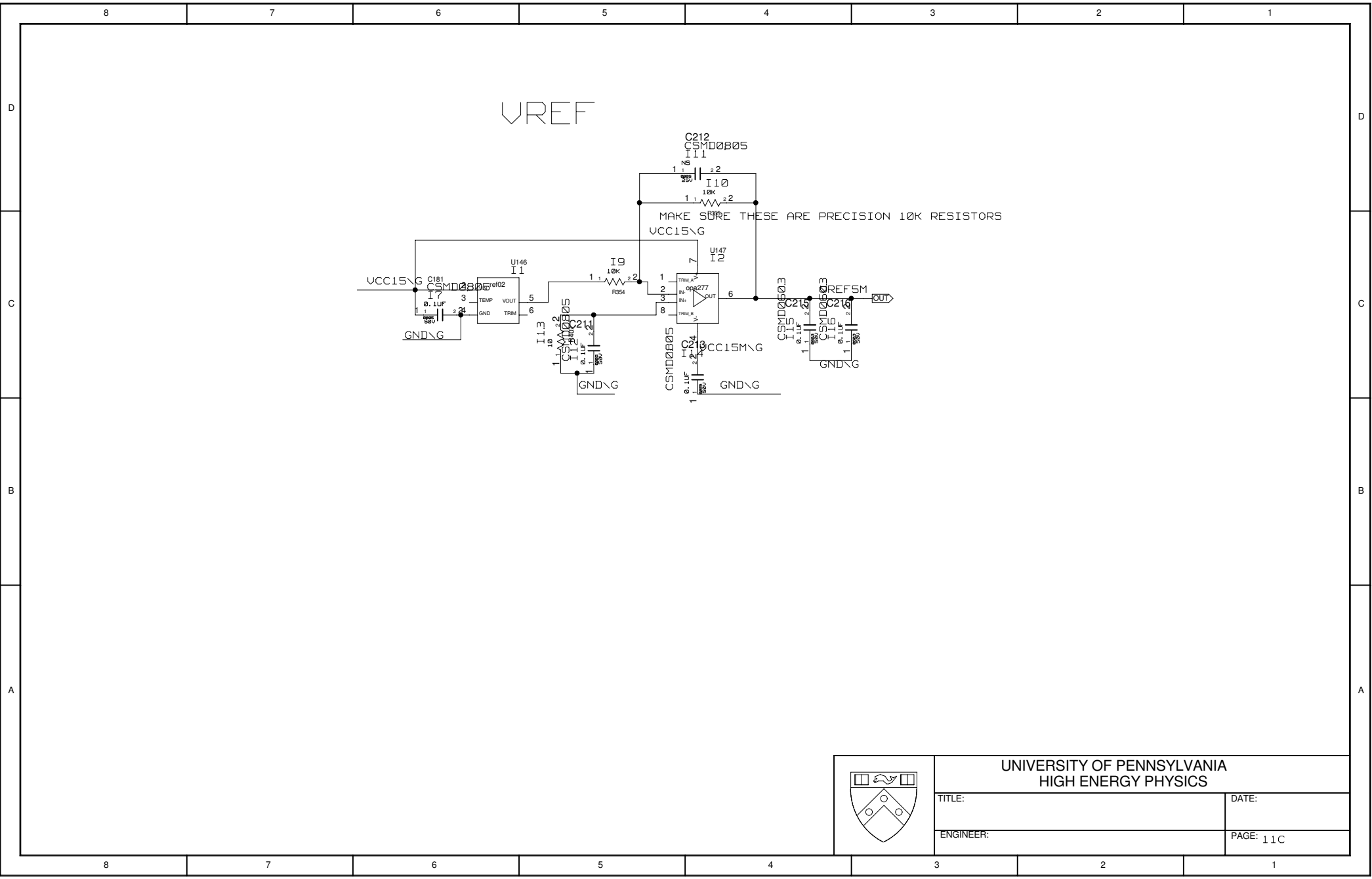


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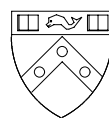
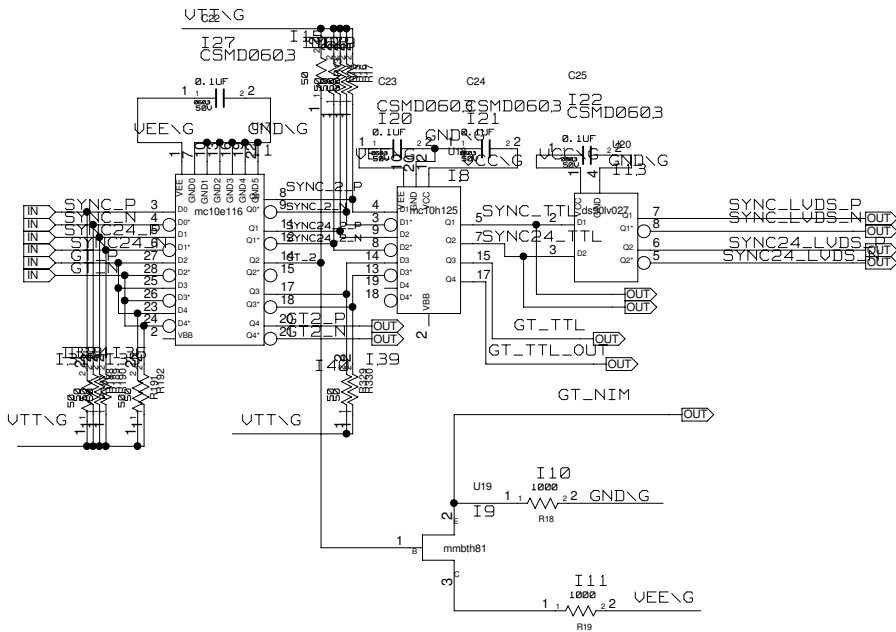


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CAEN DIGITAL COMMS

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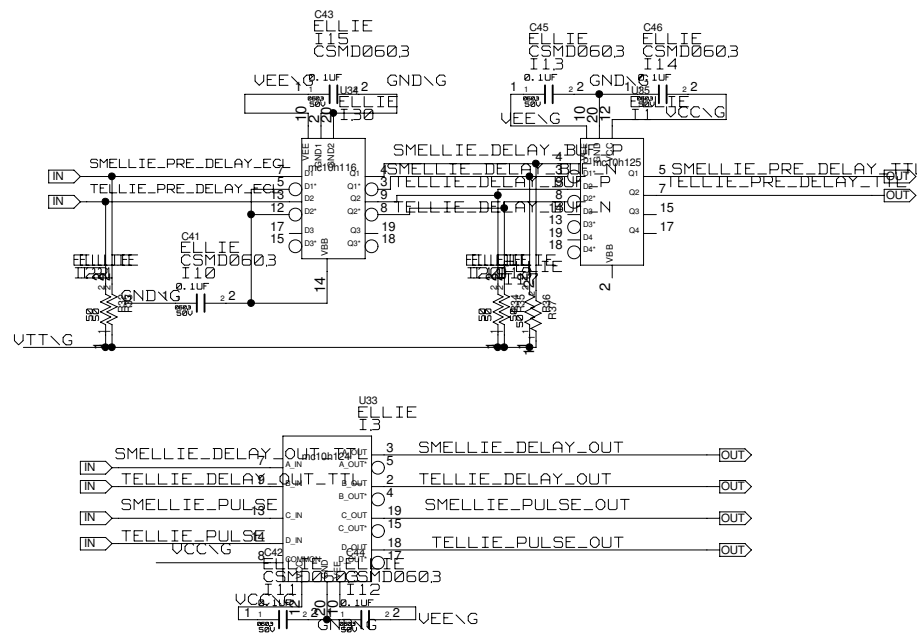
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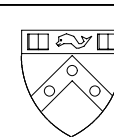
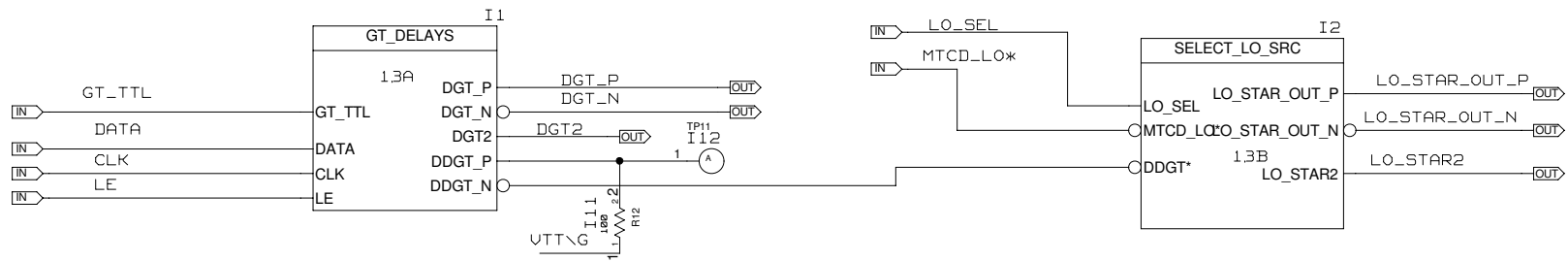
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ELLIE COMMS



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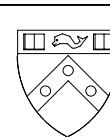
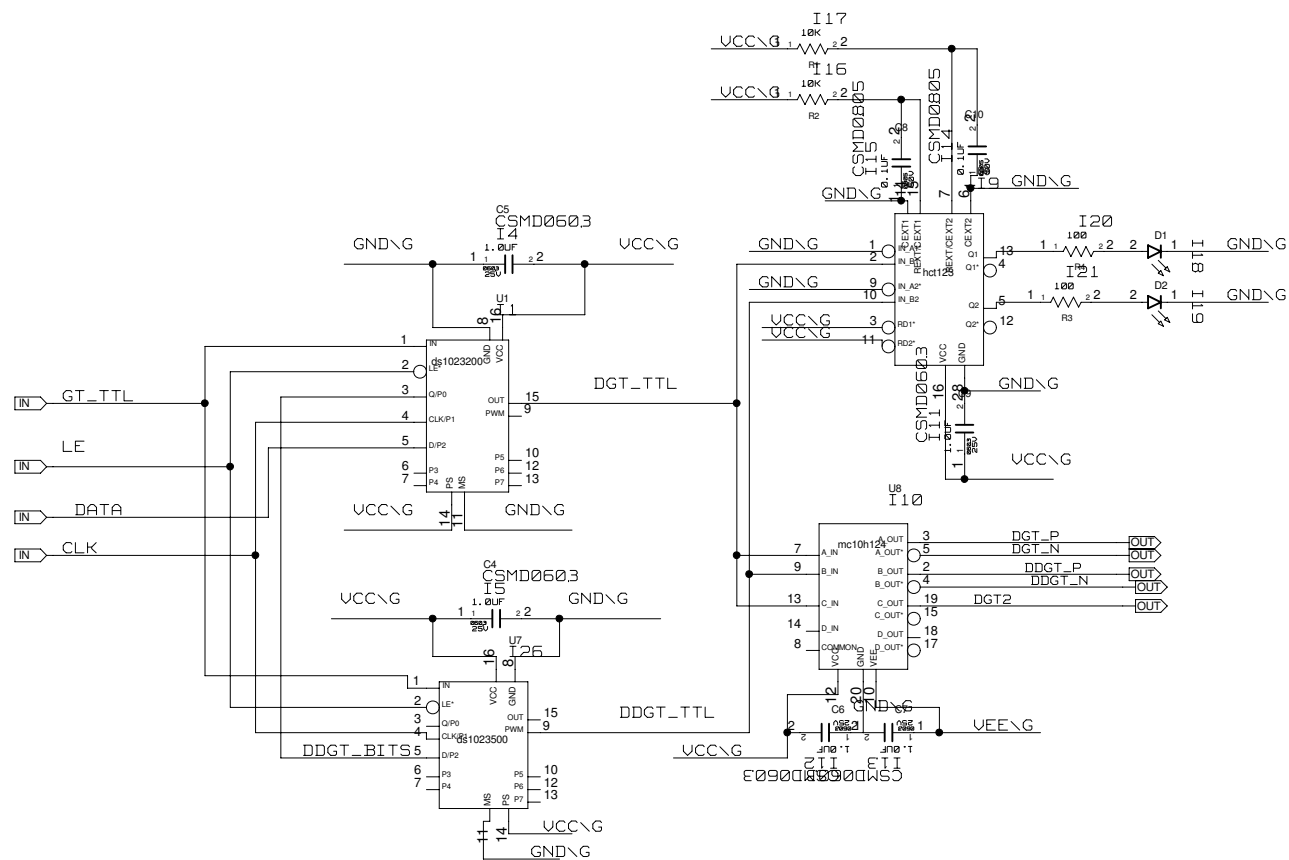
LOCKOUT GENERATION



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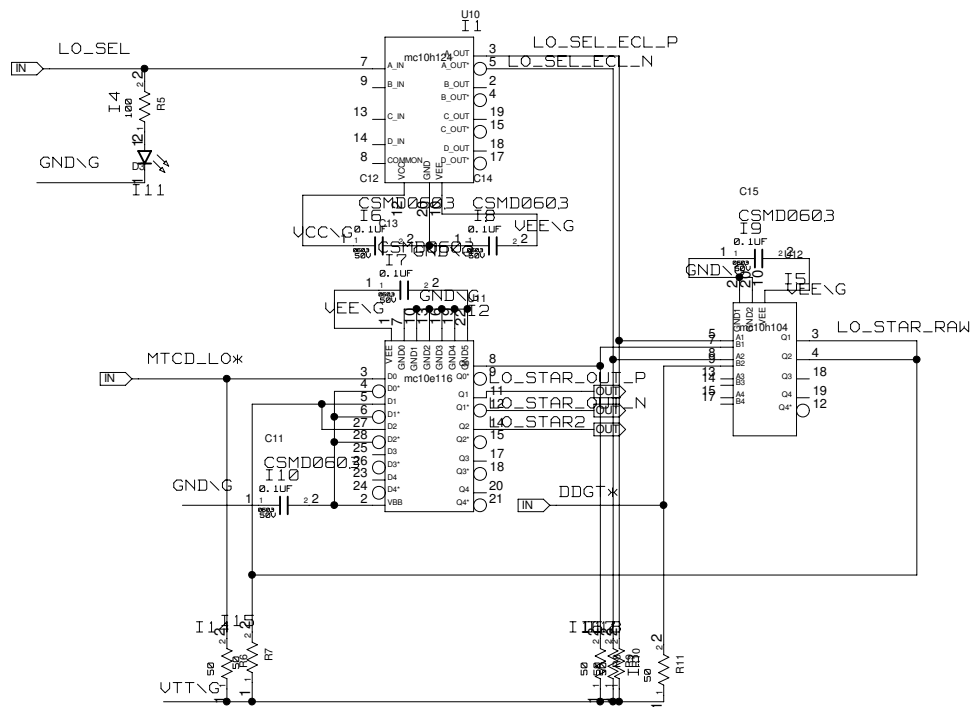
GLOBAL TRIGGER DELAYS




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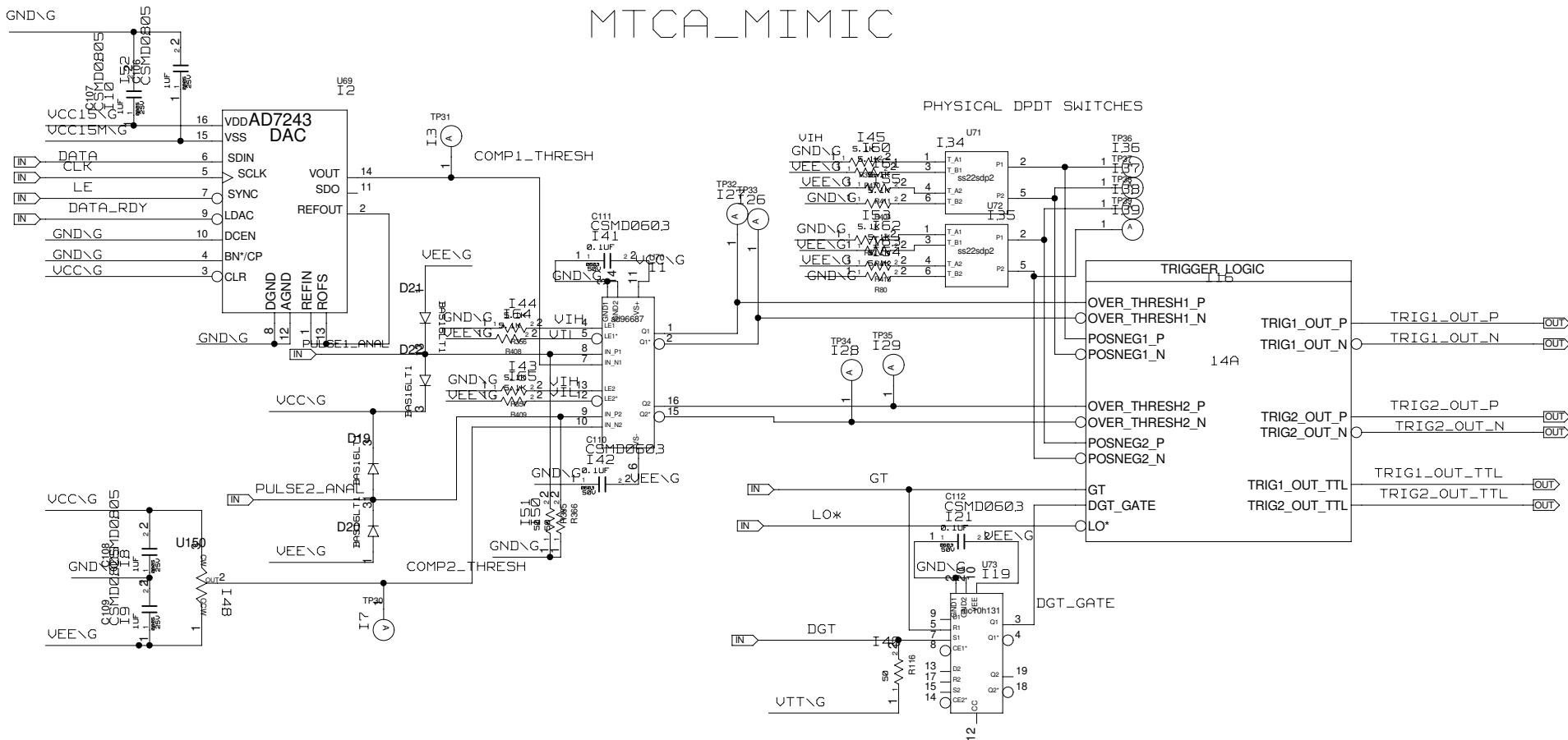
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SELECT LOCKOUT SOURCE

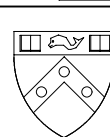
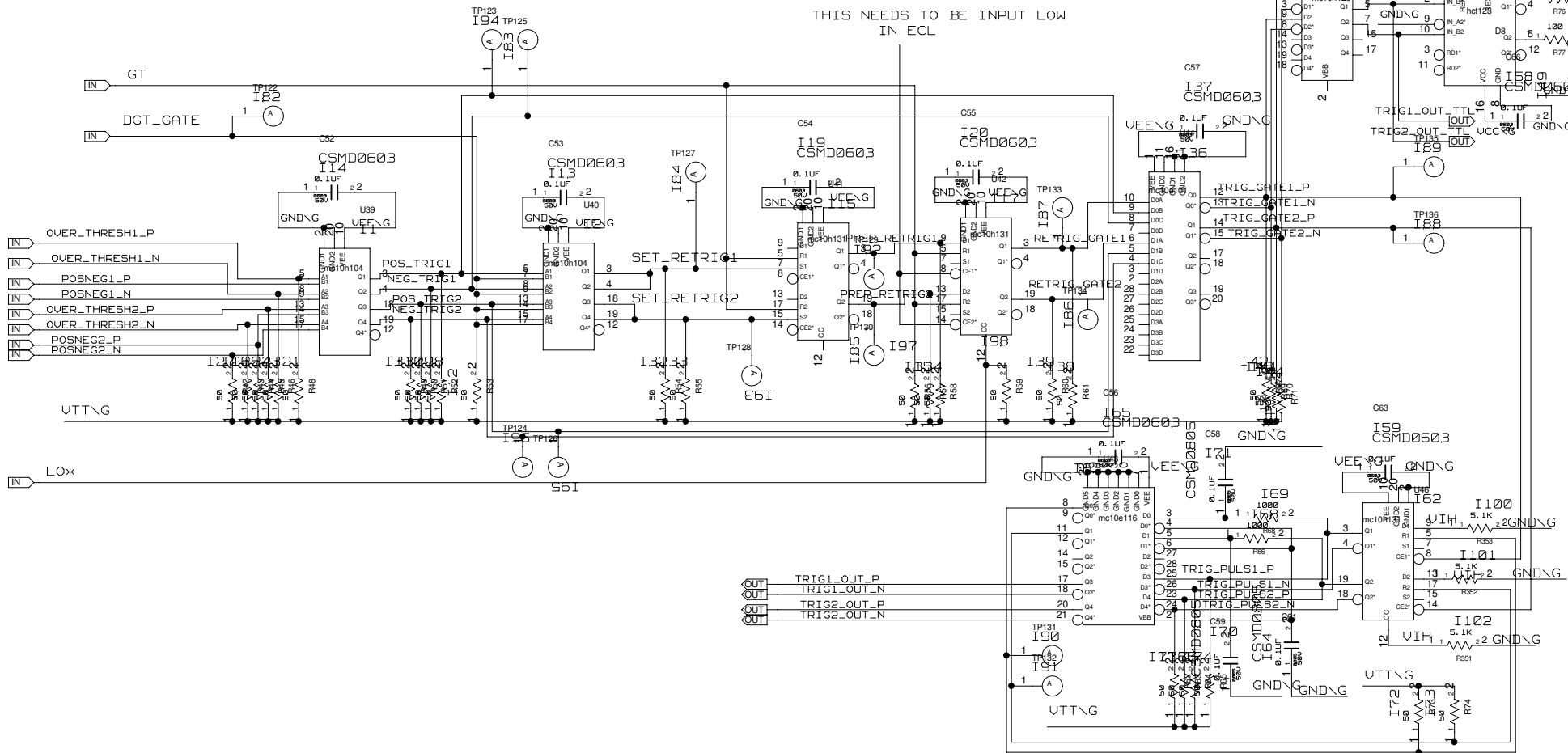


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MTCA_MIMIC



MTCALMIMIC TRIGGER LOGIC



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HIGH ENERGY PHYSICS

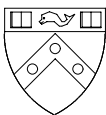
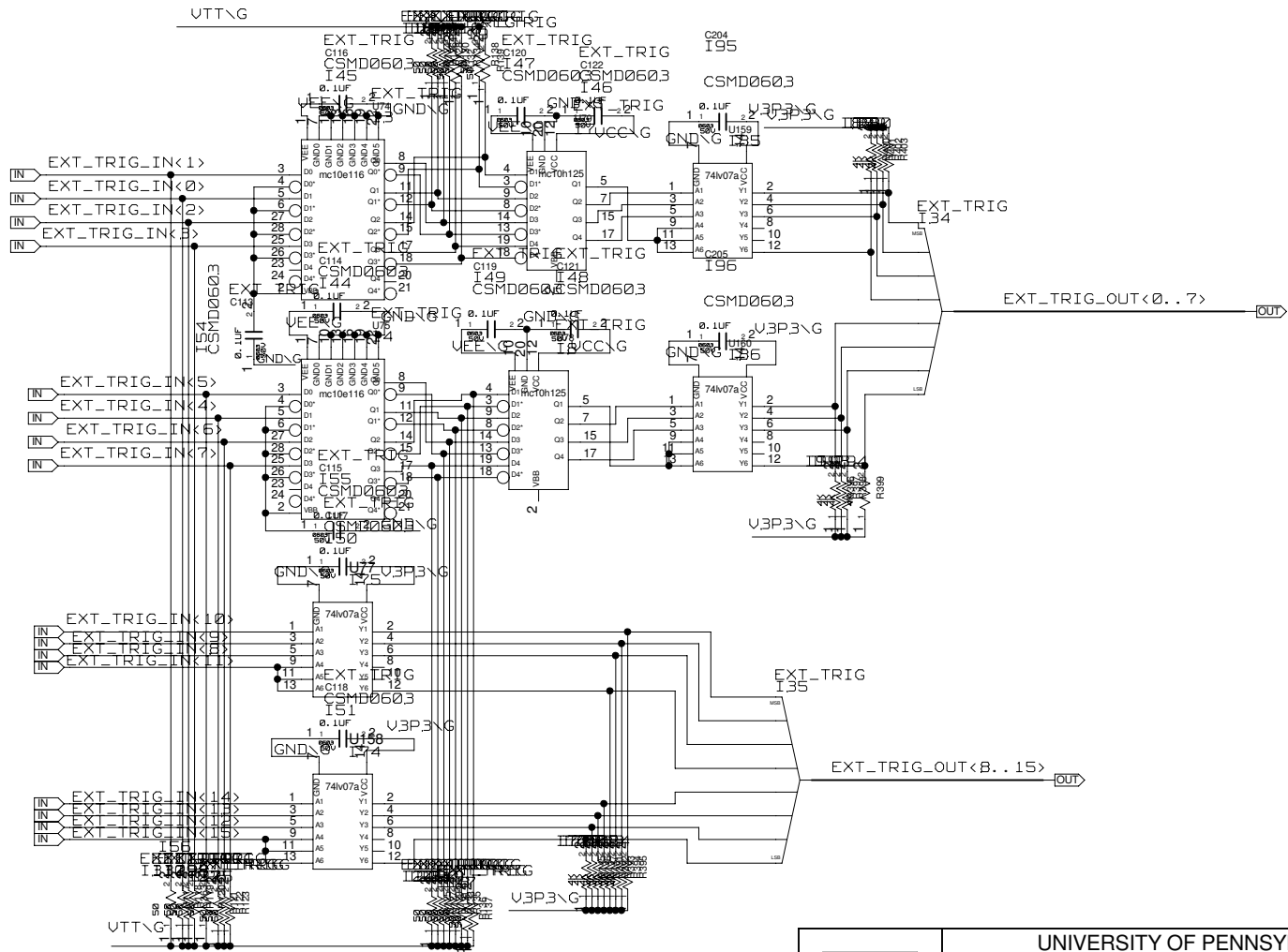
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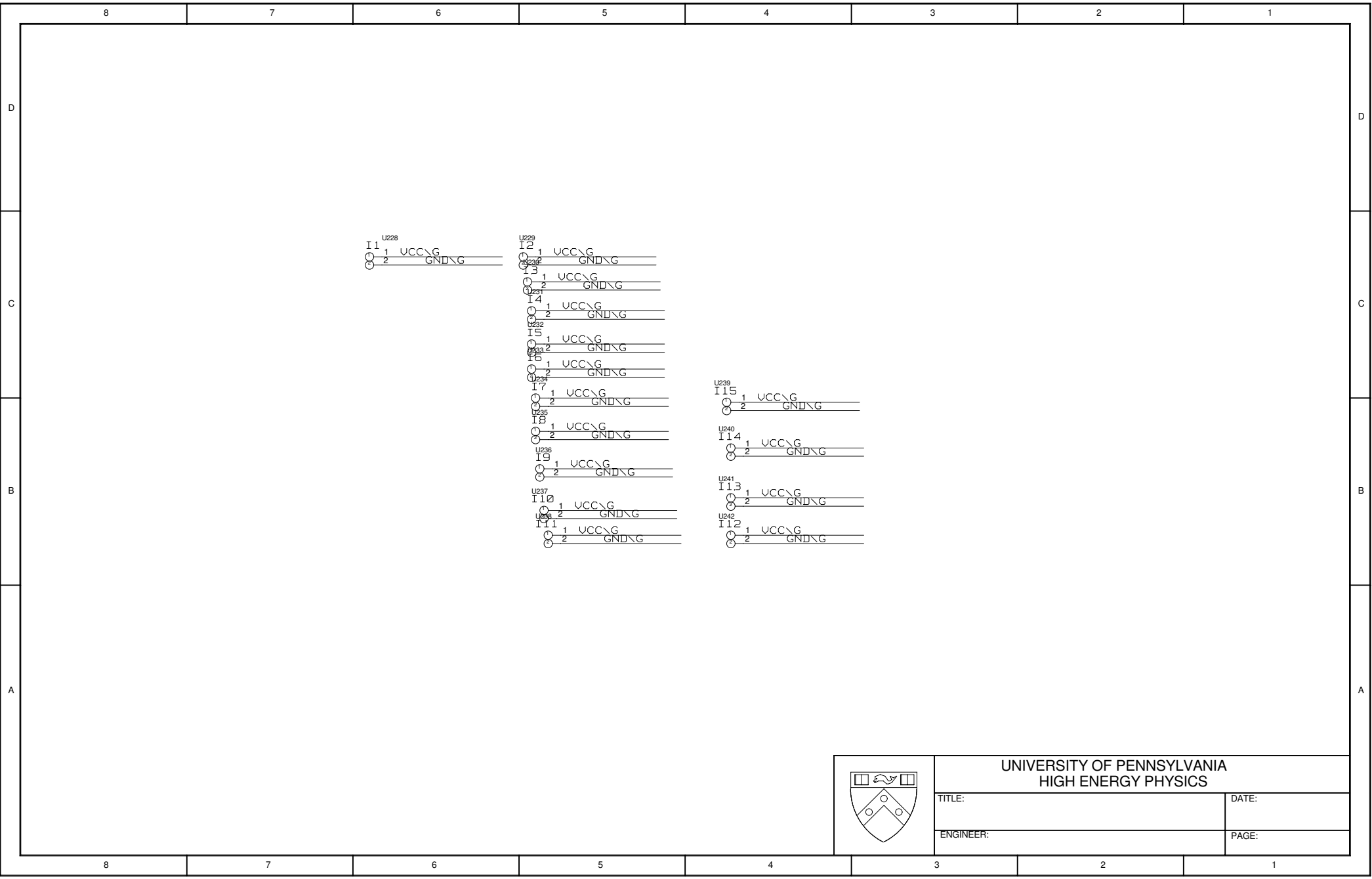
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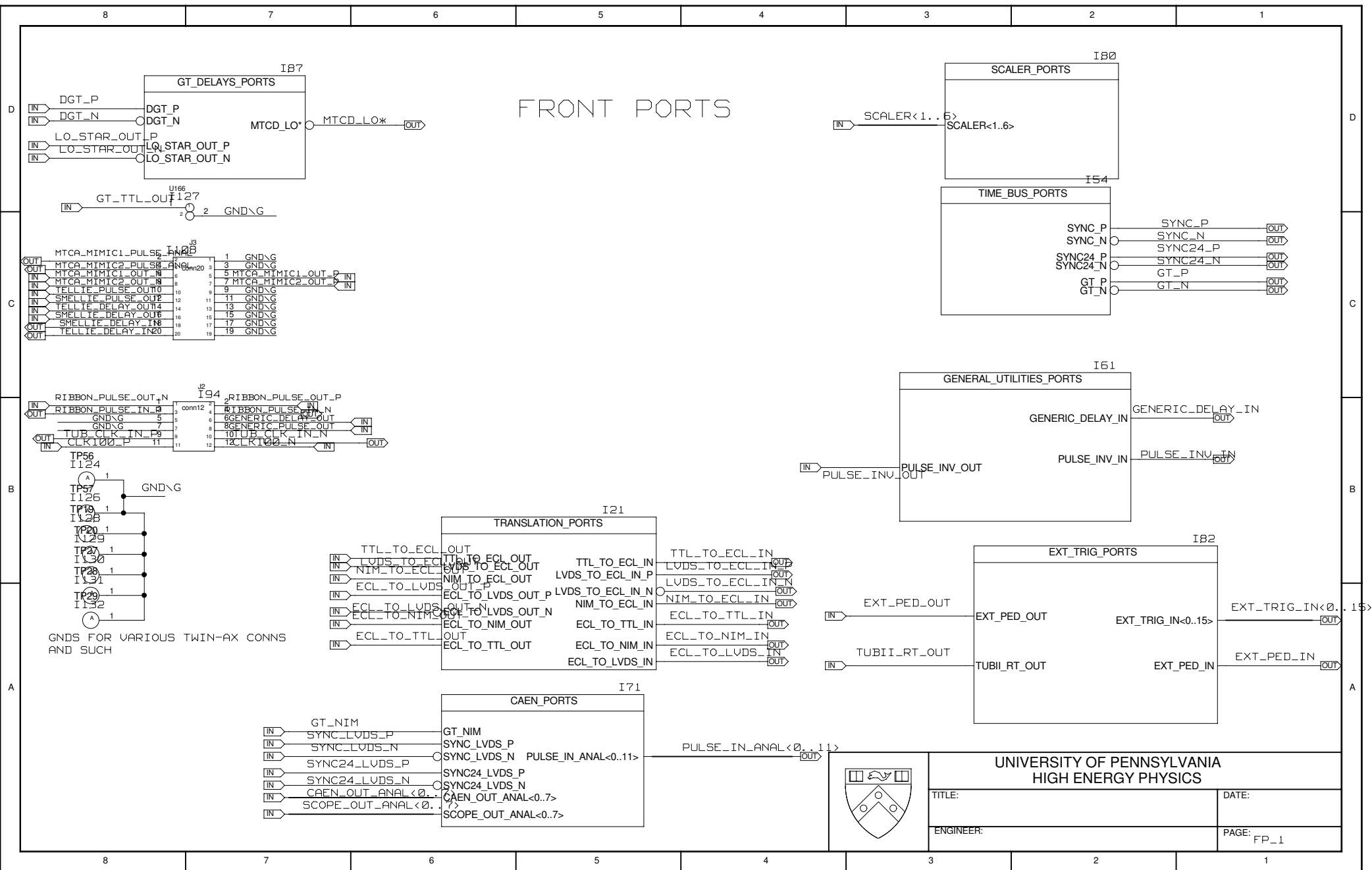
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EXTERNAL TRIGGERS IN

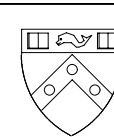
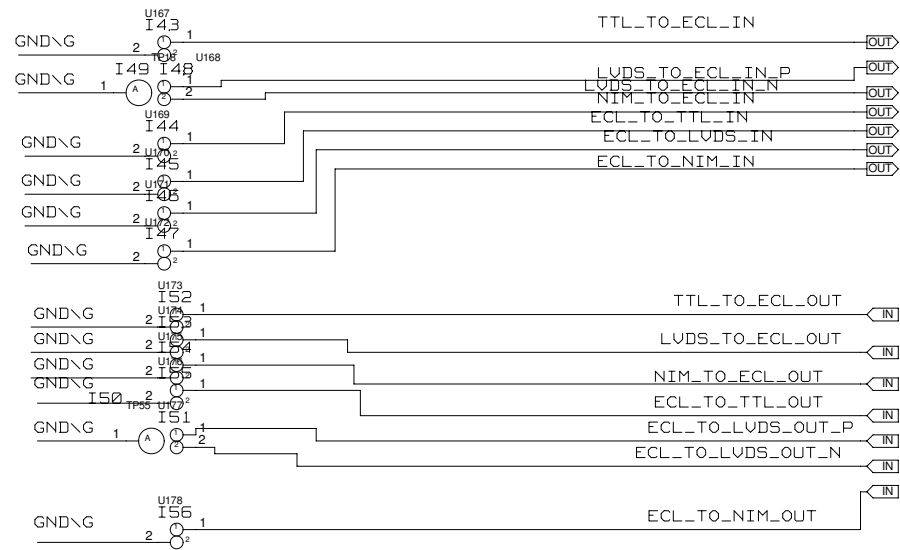
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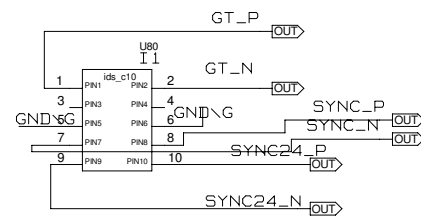
TRANSLATION PORTS




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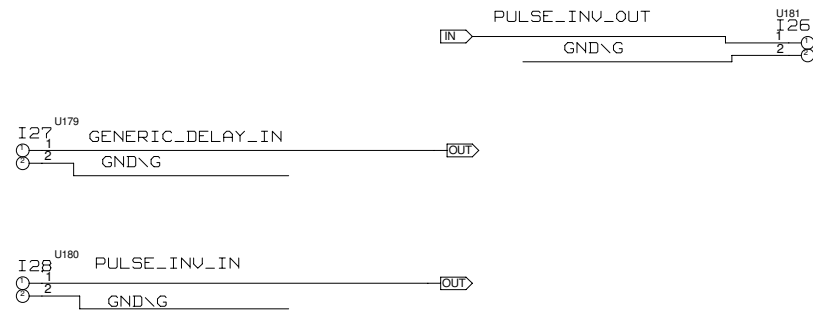
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TIME BUS PORTS

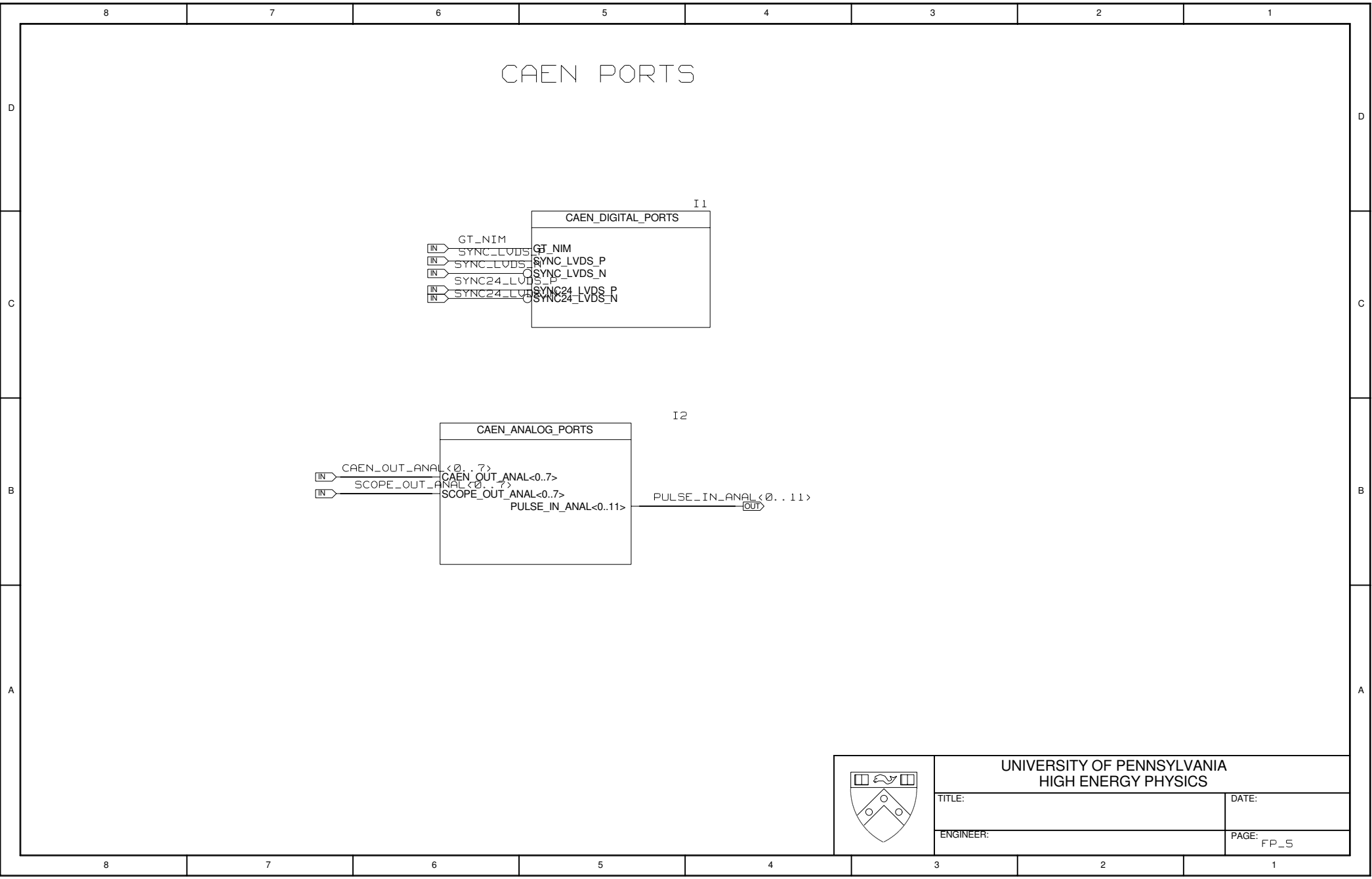


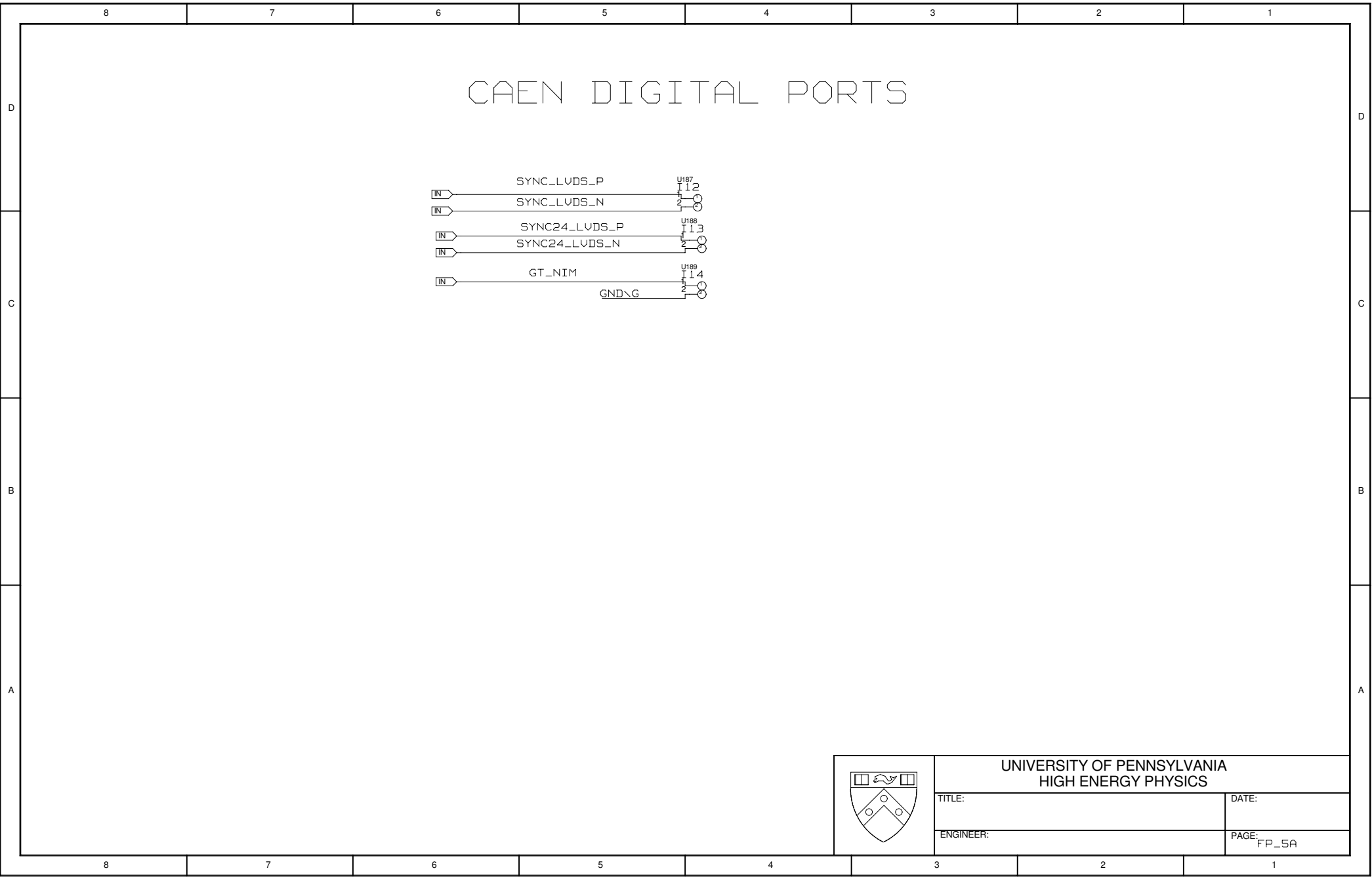
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GENERAL UTILITIES PORTS



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IN

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SYNC24_LVDS_P

U188

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IN

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SYNC24_LVDS_N

U188

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U189

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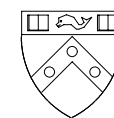
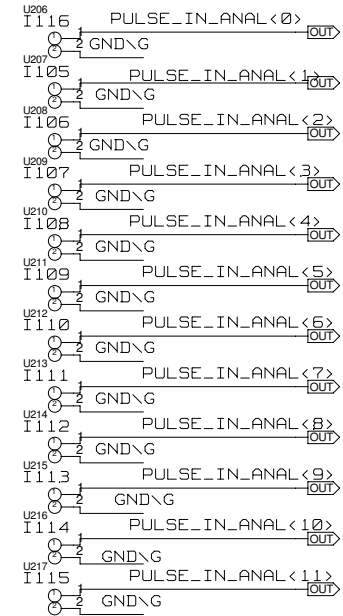
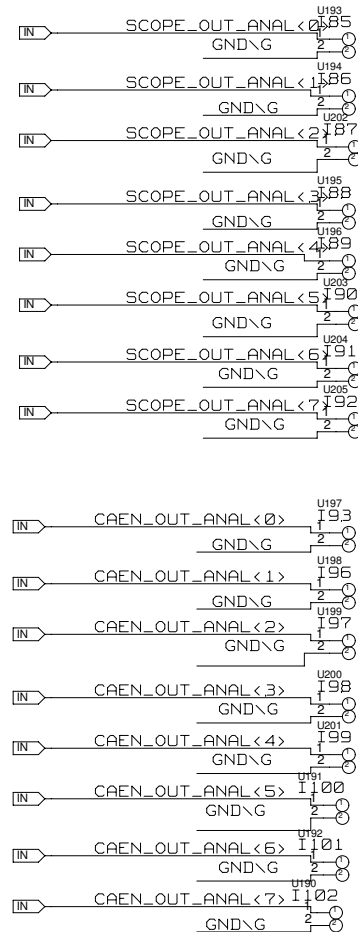
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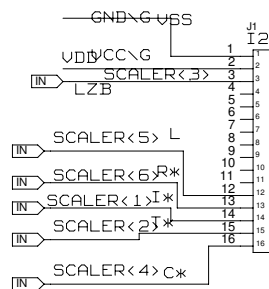
CAEN ANALOG PORTS




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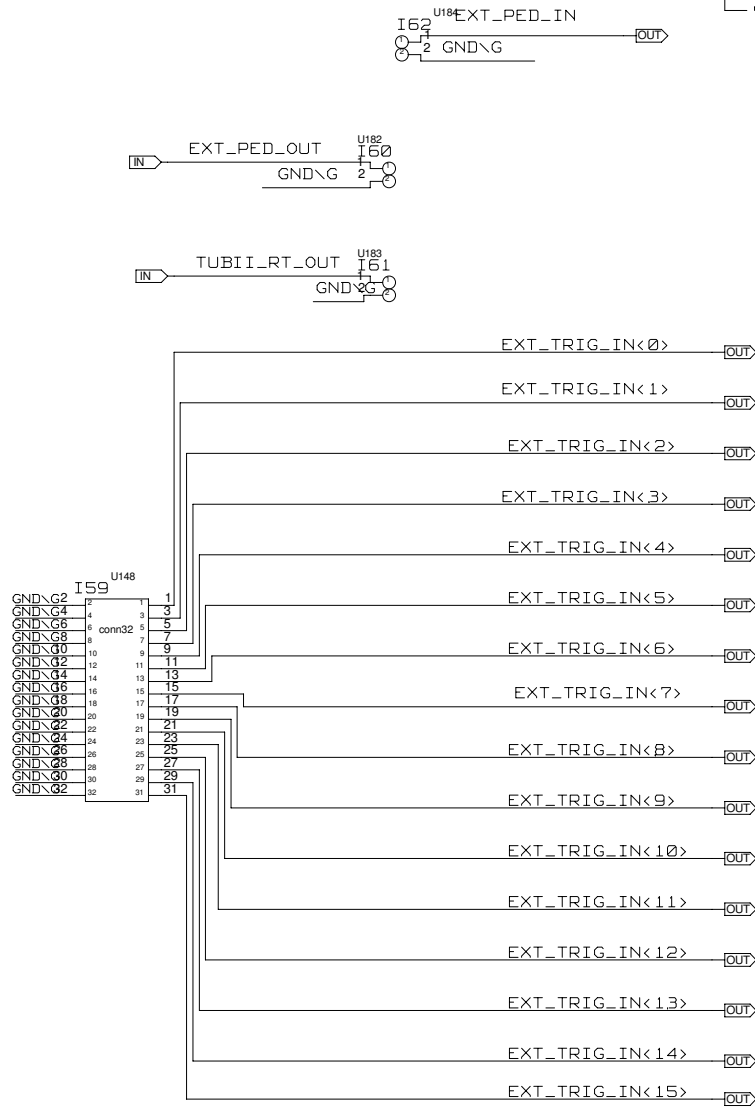
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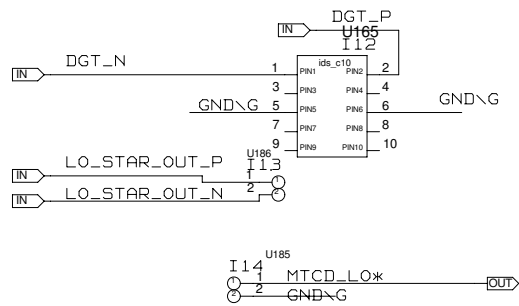
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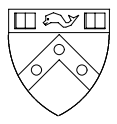
EXTERNAL TRIGGERS PORTS

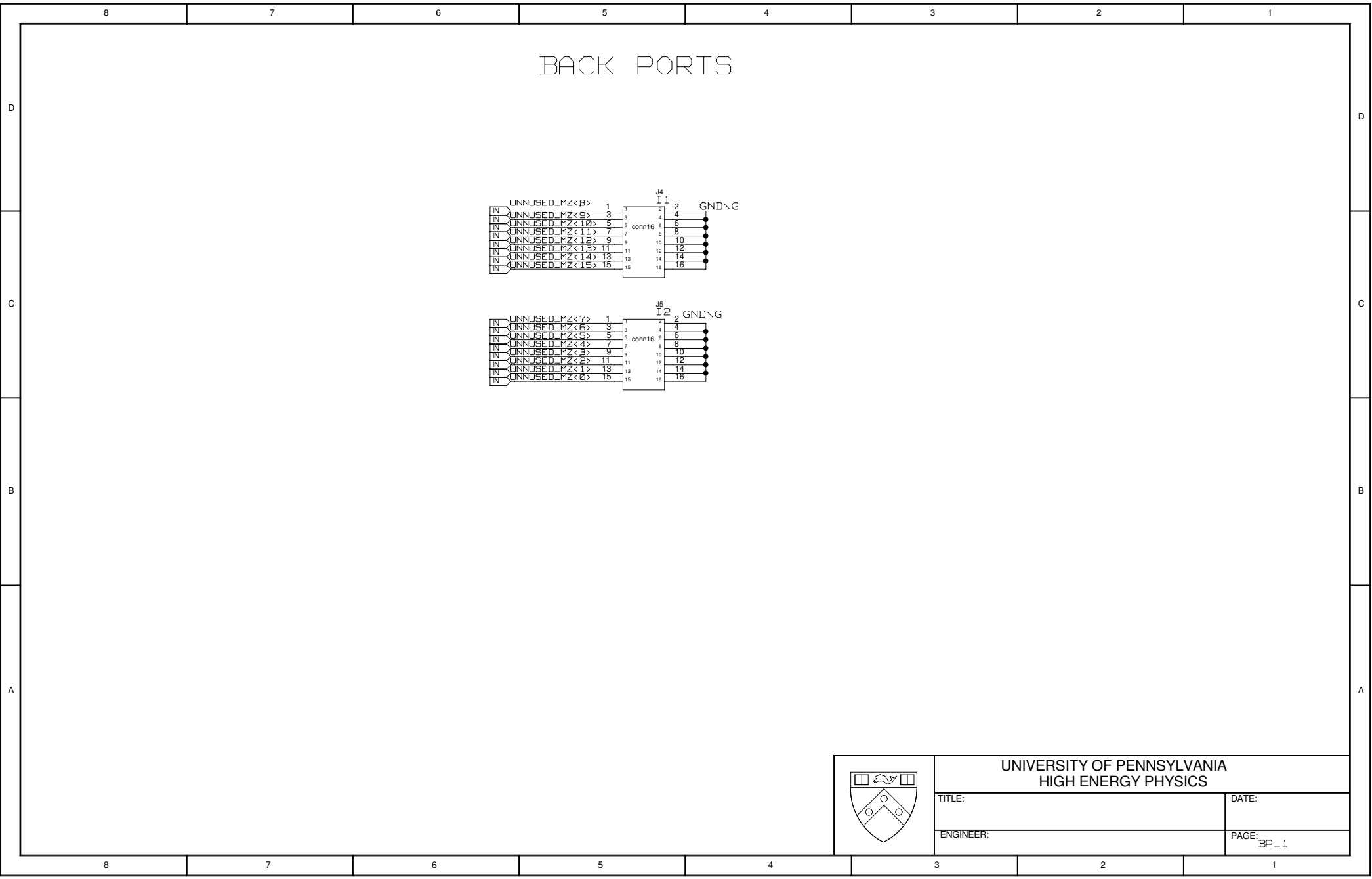


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GT DELAYS PORTS



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