

SCH#: B-2919  
SPC#: A-2920  
ASM#: B-2921

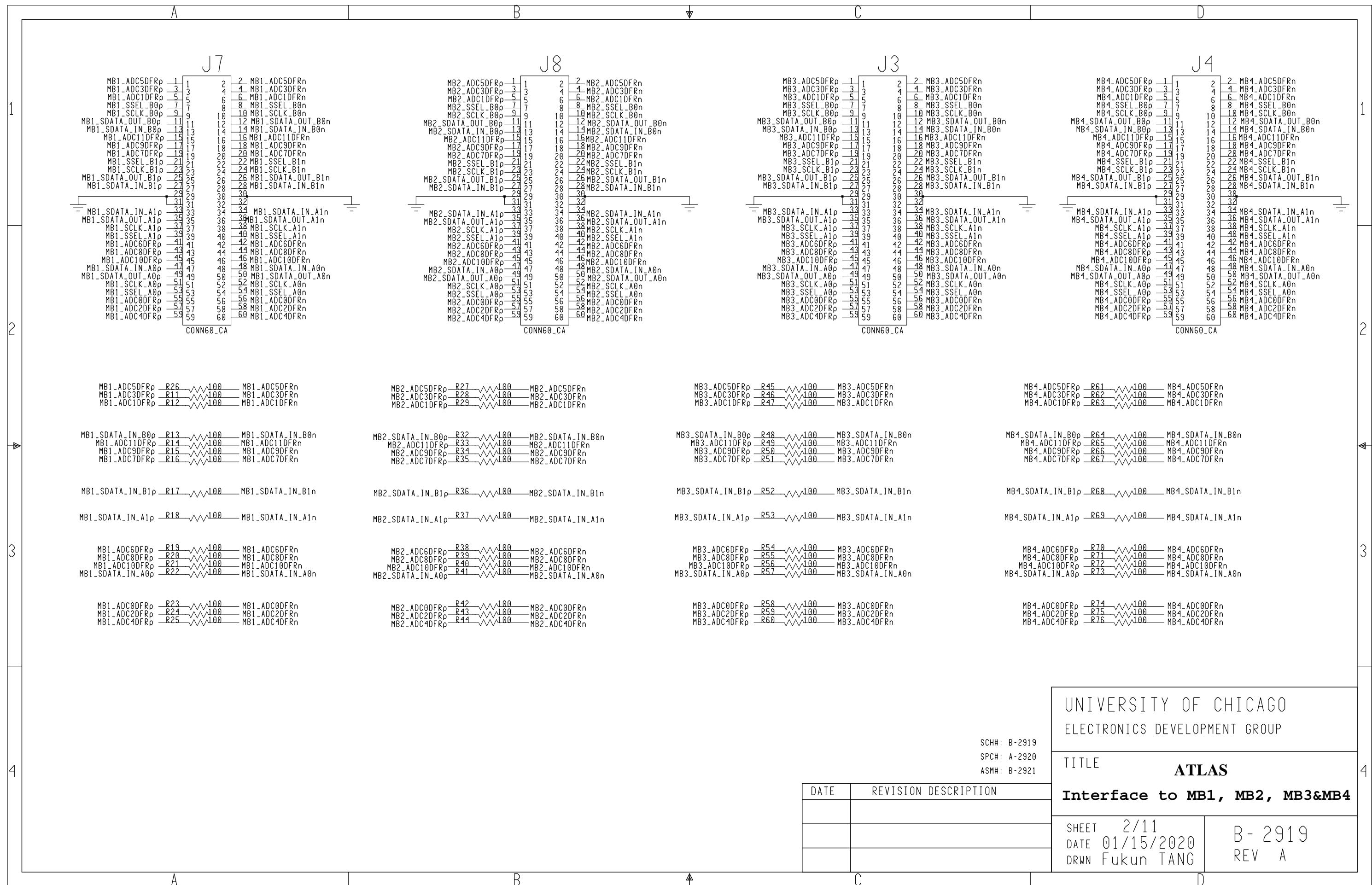
| DATE | REVISION DESCRIPTION |
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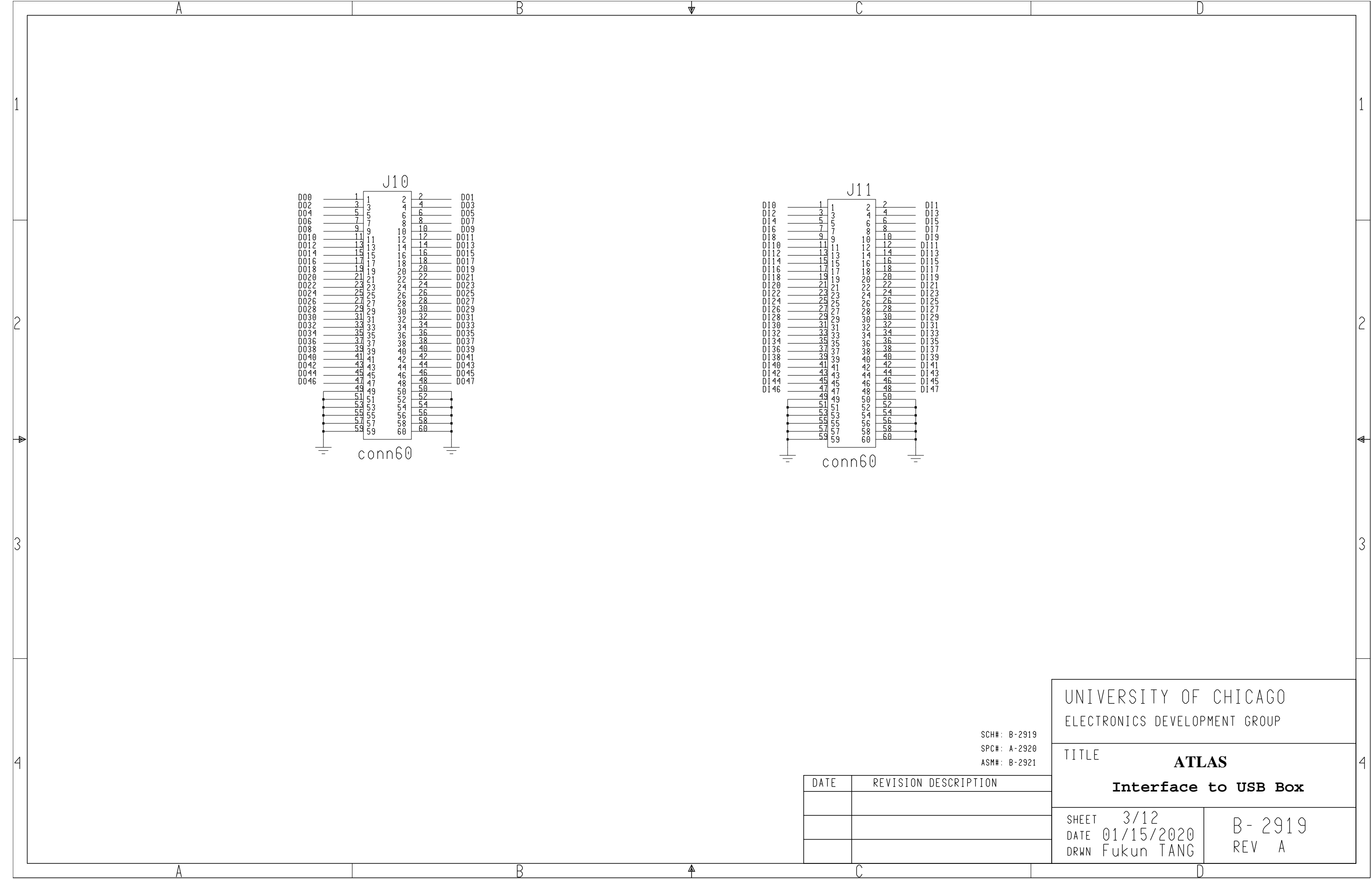
UNIVERSITY OF CHICAGO  
ELECTRONICS DEVELOPMENT GROUP

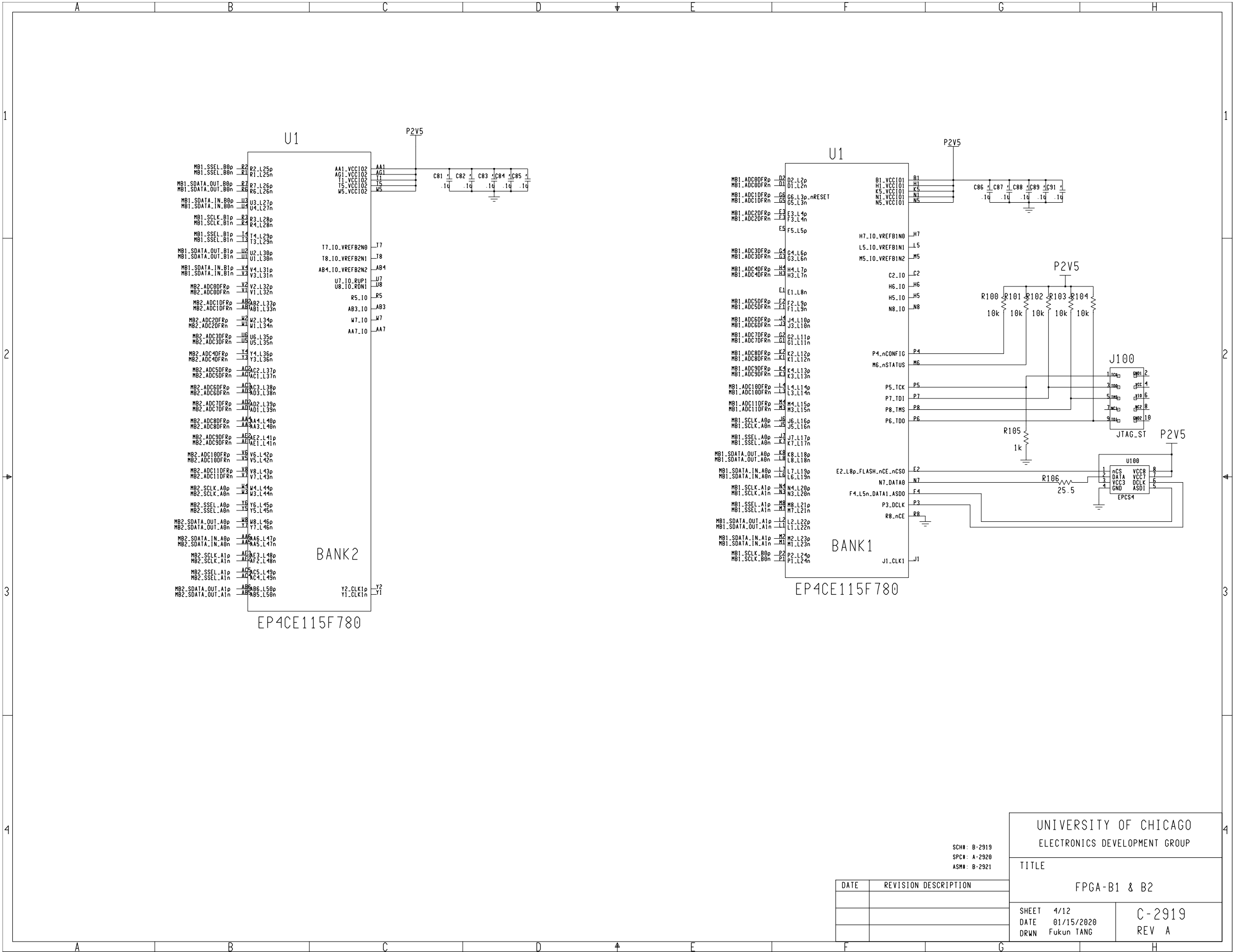
|       |                    |
|-------|--------------------|
| TITLE | ATLAS              |
|       | Burn_IN_Controller |

|       |            |
|-------|------------|
| SHEET | 1/12       |
| DATE  | 01/15/2020 |
| DRWN  | FUKUN TANG |

B - 2919  
REV A





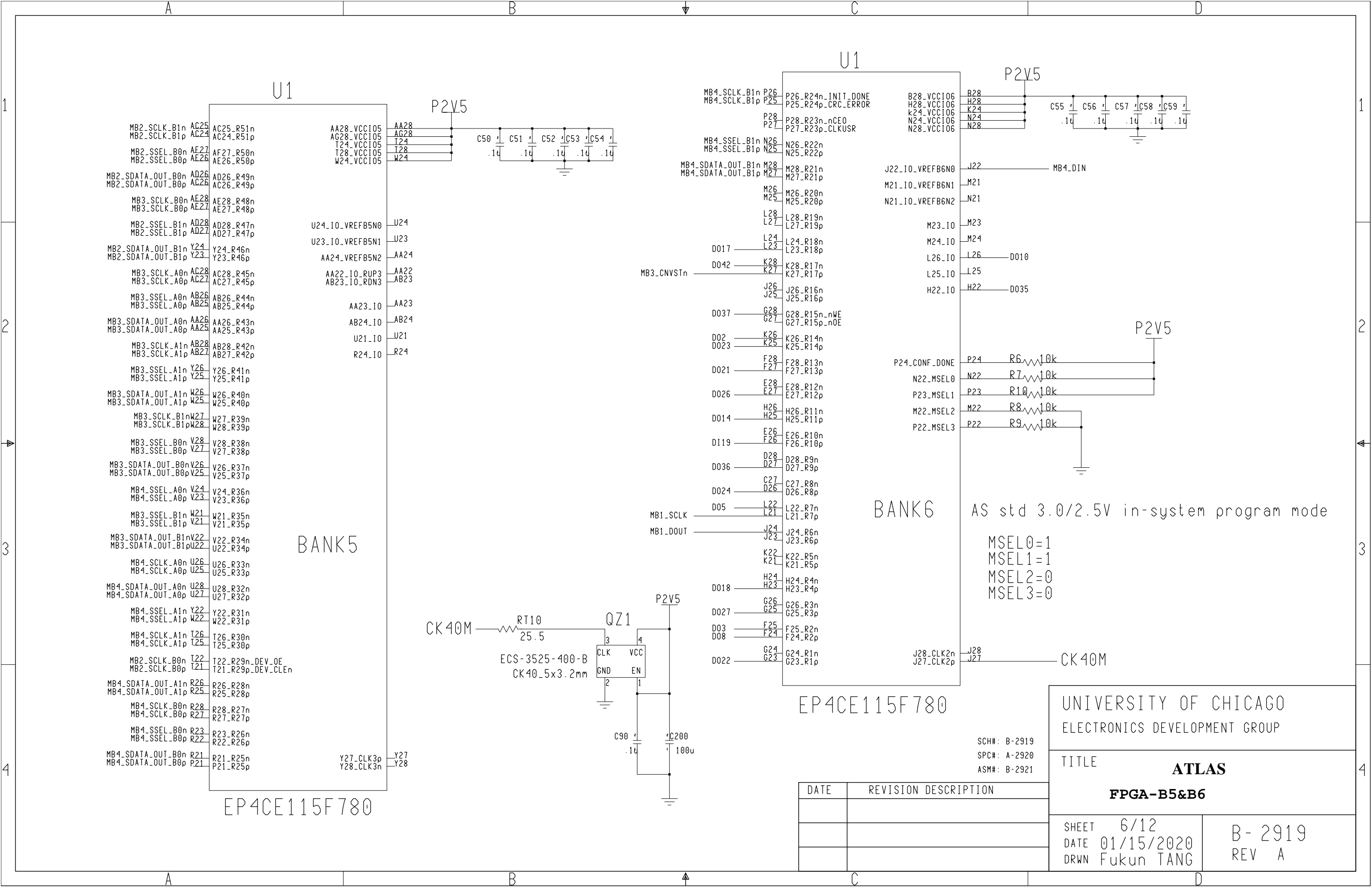


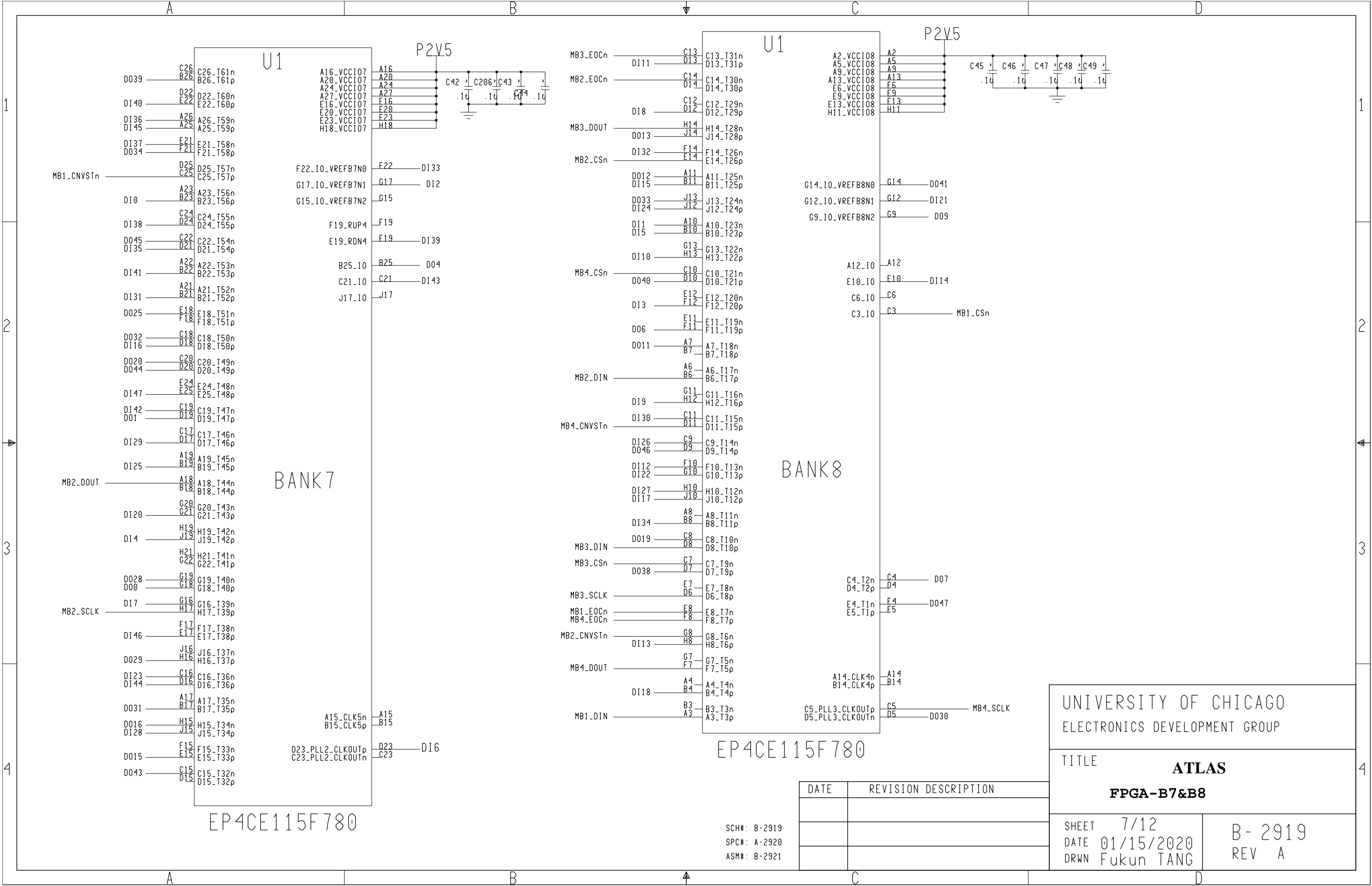
SCH#: B-2919  
SPCR: A-2920  
ASMR: B-2921

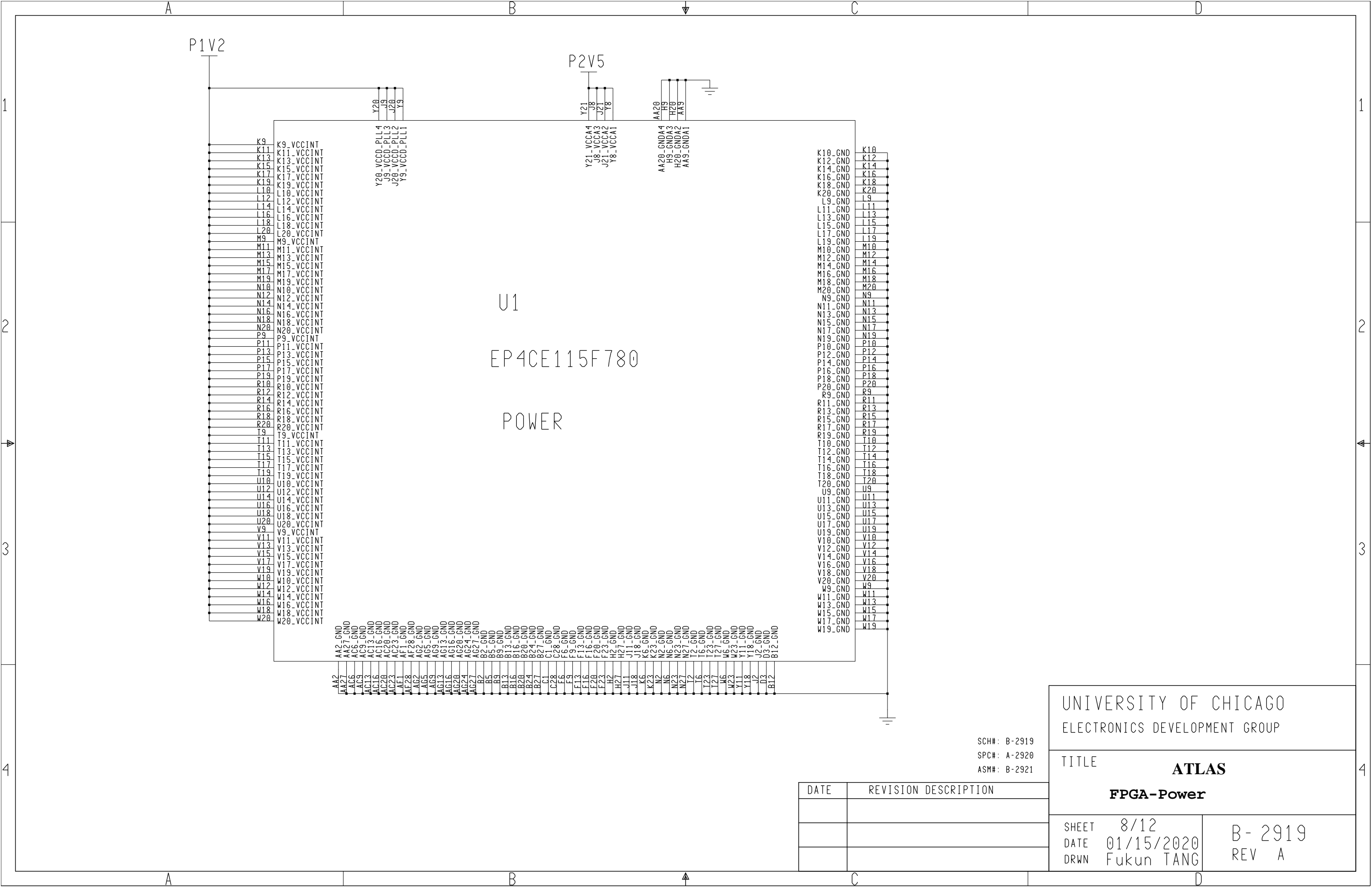
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| UNIVERSITY OF CHICAGO<br>ELECTRONICS DEVELOPMENT GROUP |                 |
| TITLE<br>FPGA-B1 & B2                                  |                 |
| SHEET 4/12<br>DATE 01/15/2020<br>DRWN Fukun TANG       | C-2919<br>REV A |

| DATE | REVISION DESCRIPTION |
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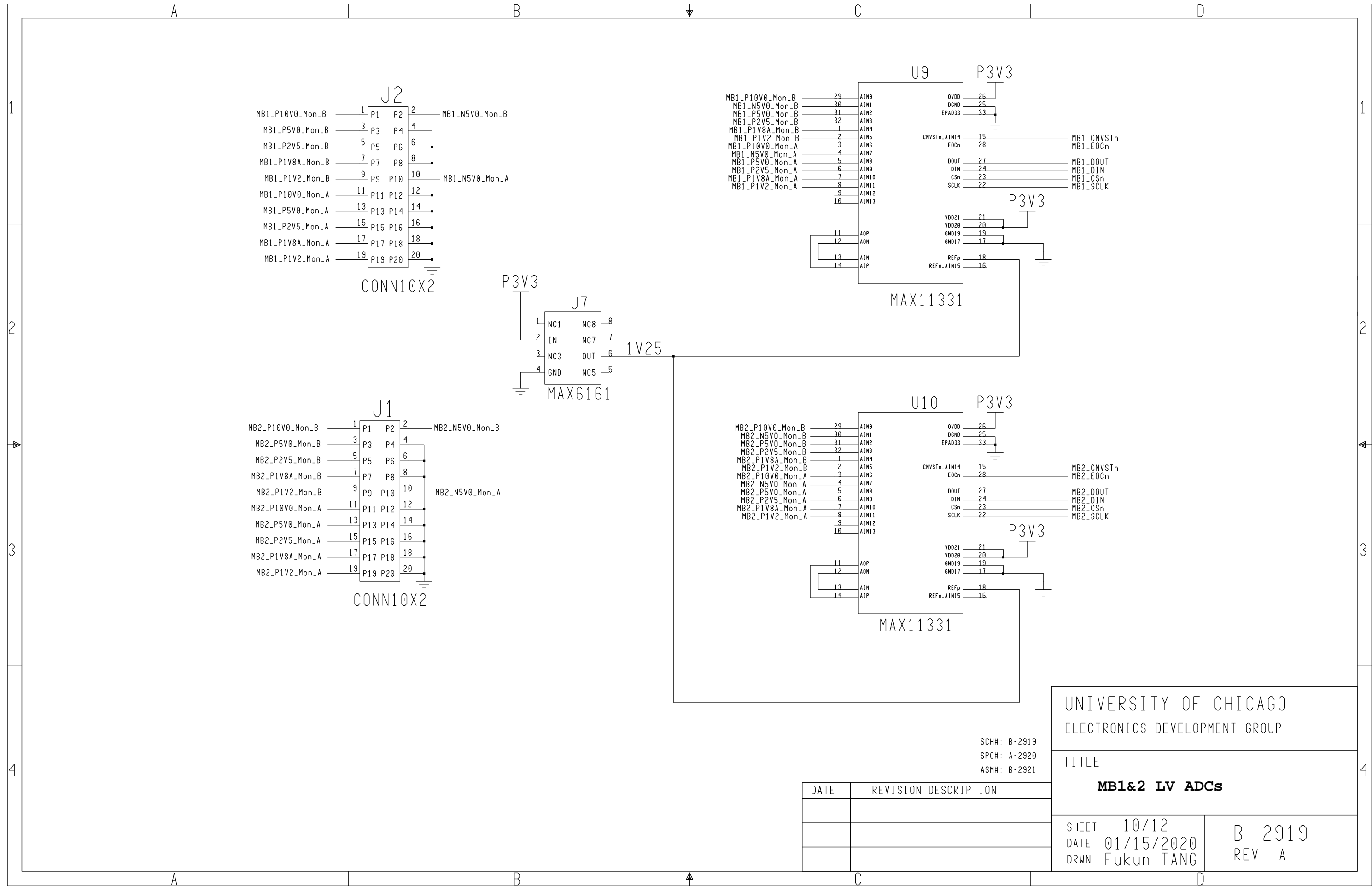


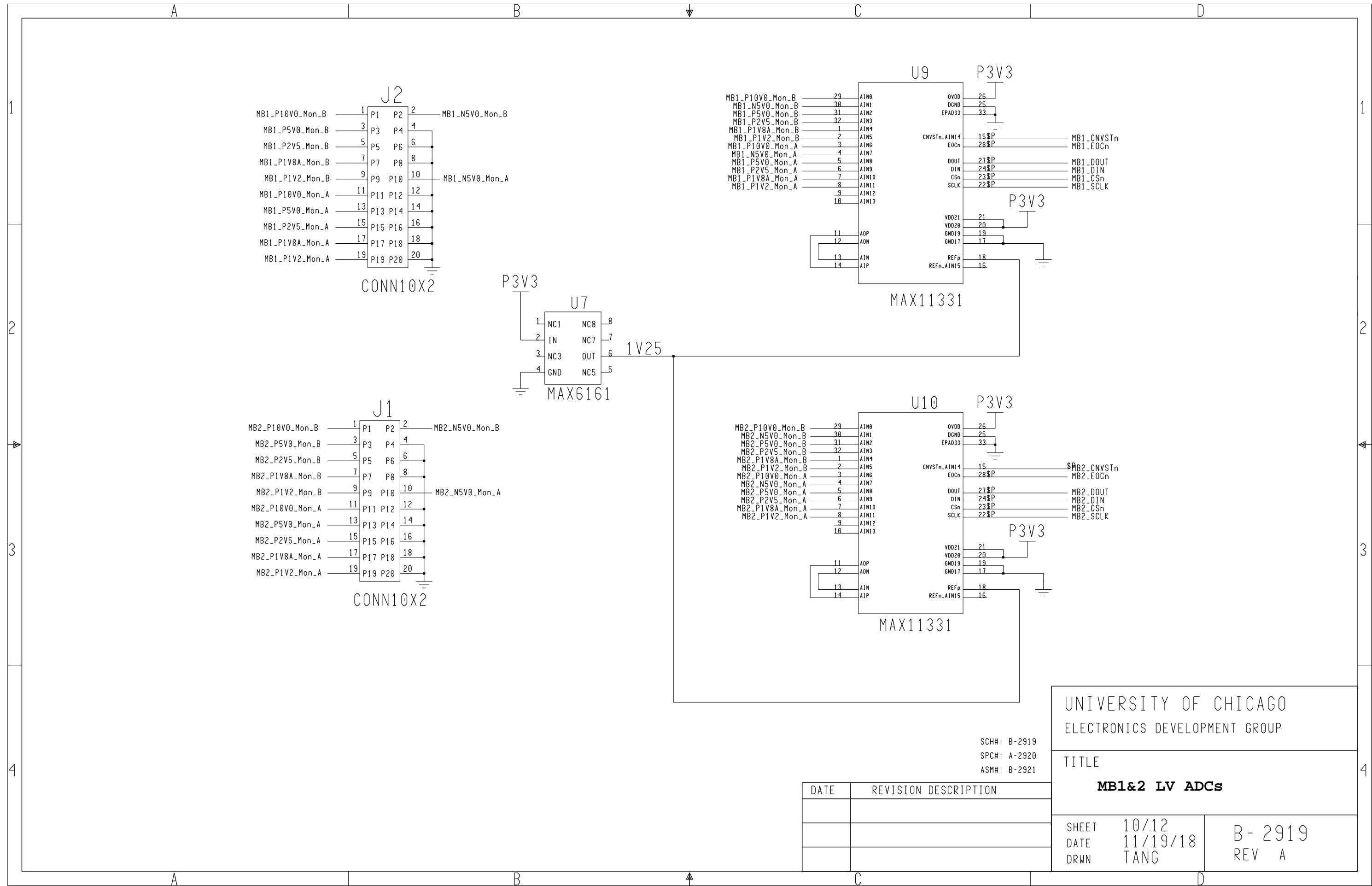
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| UNIVERSITY OF CHICAGO         |            |
| ELECTRONICS DEVELOPMENT GROUP |            |
| TITLE                         |            |
| ATLAS                         |            |
| FPGA-Power                    |            |
| SHEET                         | 8/12       |
| DATE                          | 01/15/2020 |
| DRWN                          | Fukun TANG |
| B- 2919                       |            |
| REV A                         |            |

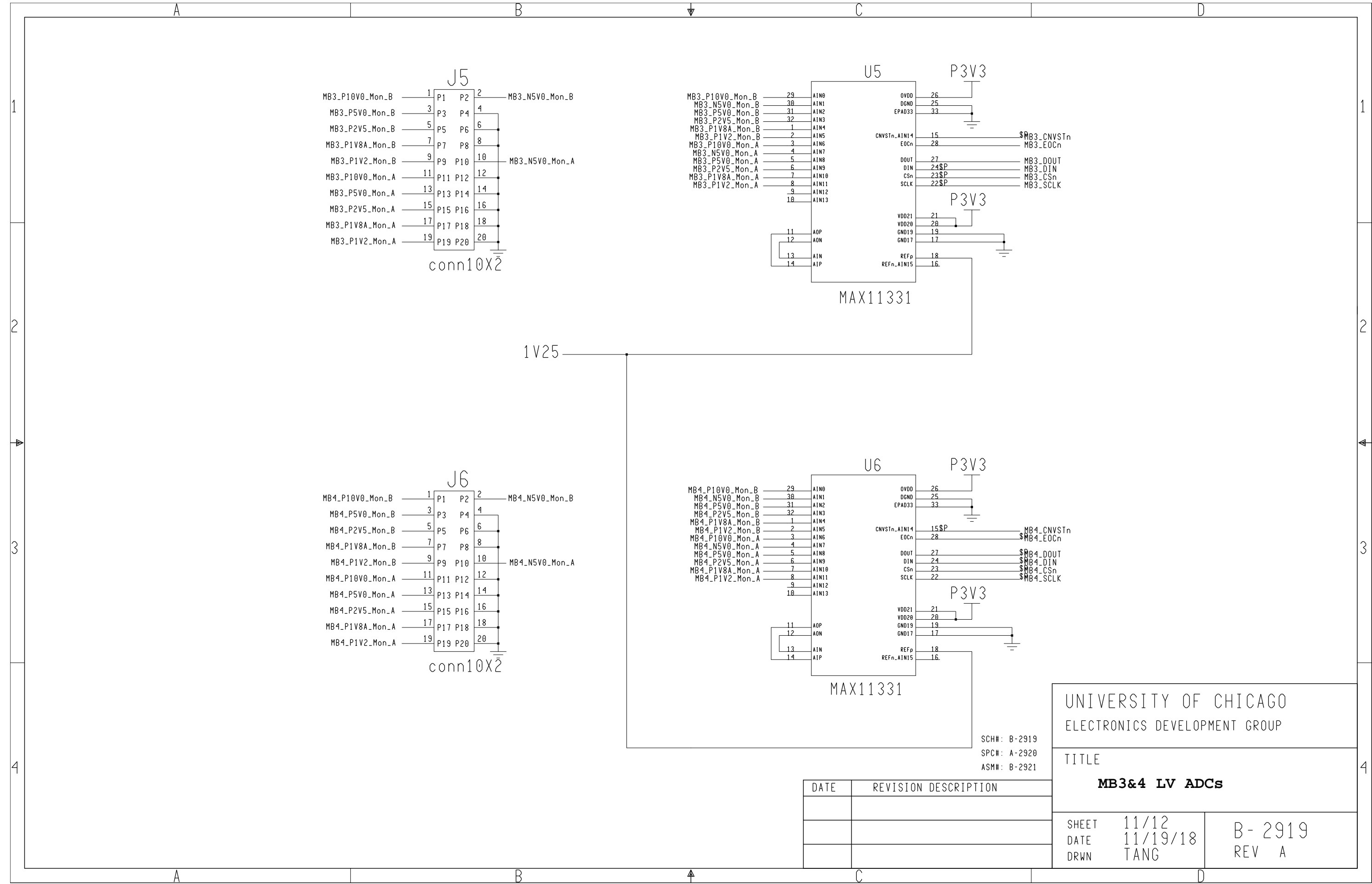
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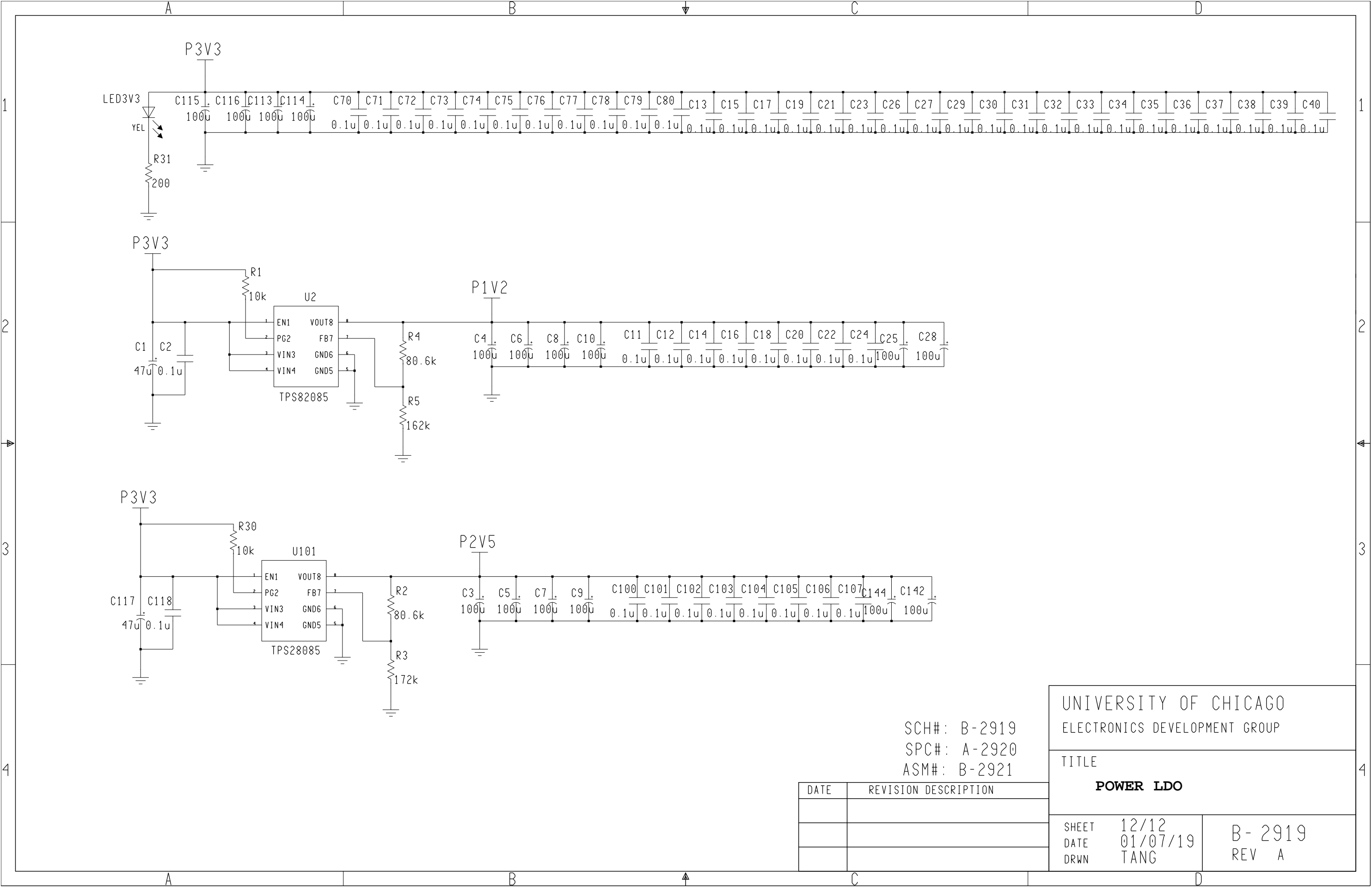
SCH#: B-2919  
SPC#: A-2920  
ASM#: B-2921







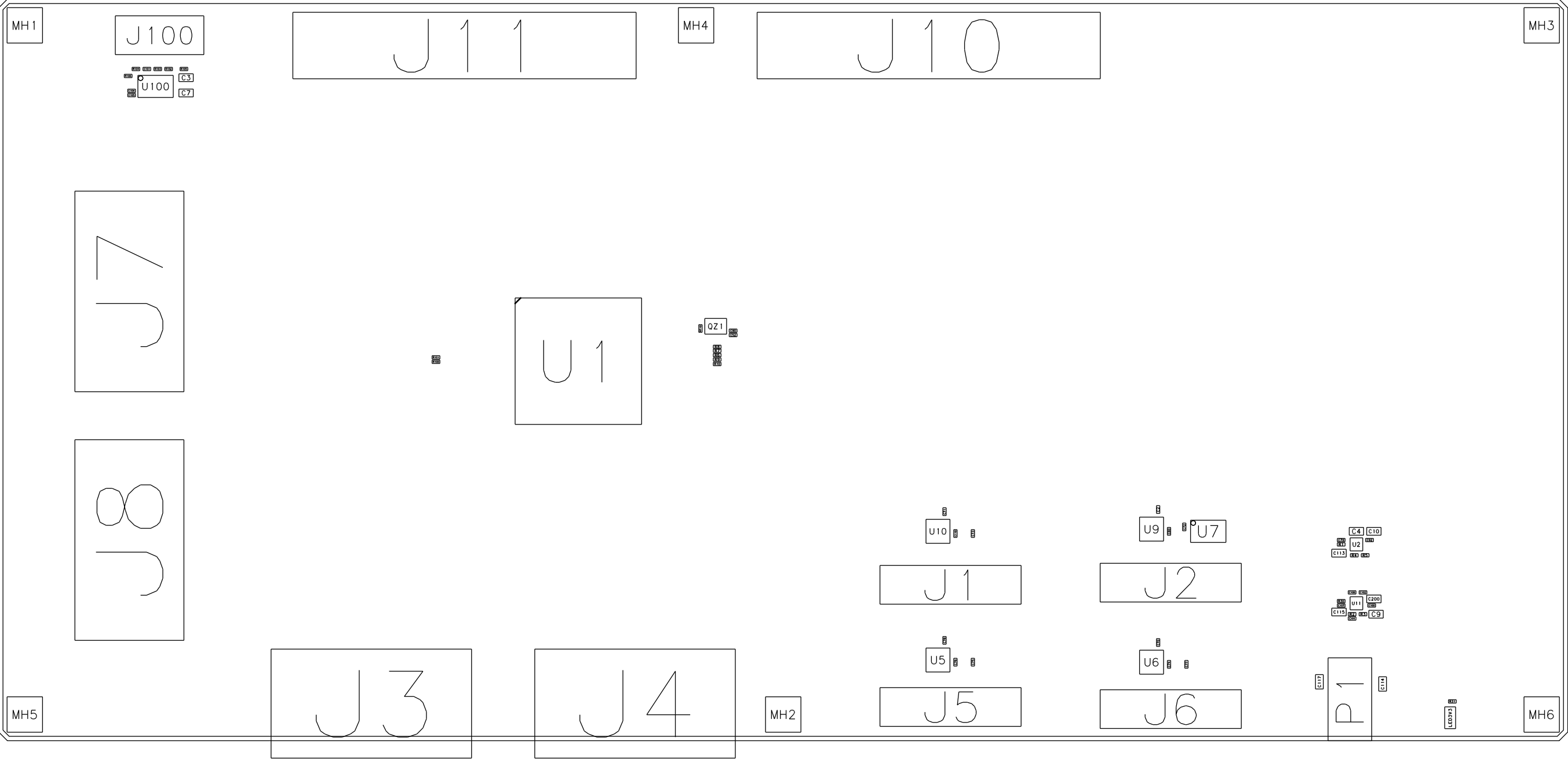


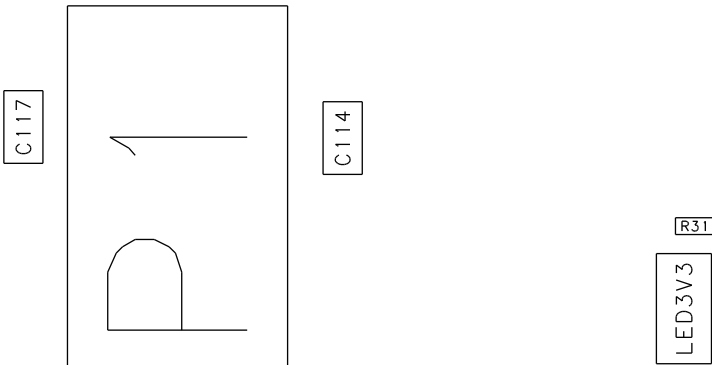
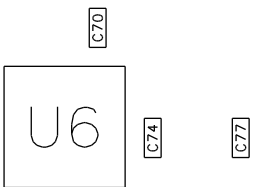
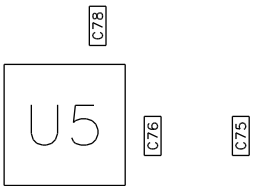
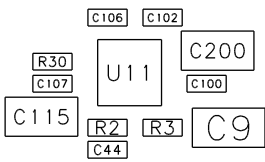
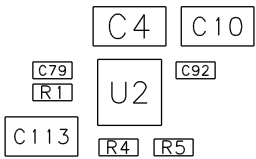
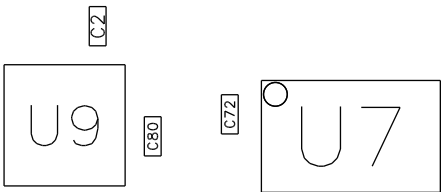
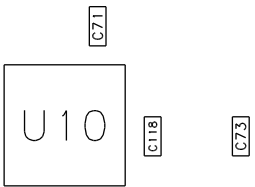


SCH#: B-2919  
SPC#: A-2920  
ASM#: B-2921

| DATE | REVISION DESCRIPTION |
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| UNIVERSITY OF CHICAGO<br>ELECTRONICS DEVELOPMENT GROUP |                  |
| TITLE<br><b>POWER LDO</b>                              |                  |
| SHEET 12/12<br>DATE 01/07/19<br>DRWN TANG              | B- 2919<br>REV A |





J100

R104 C101 R103 R102 R105

R106

U100

C3

C104  
C105

C7

J11

MH4

5

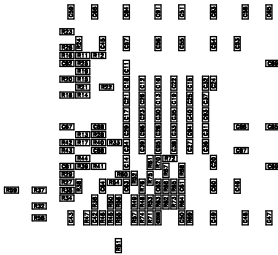
R101  
R100

U1

R10 QZ1 C90  
C52

R8  
R7  
R6  
R9  
R10

C5



C6 C8

888

C1

8



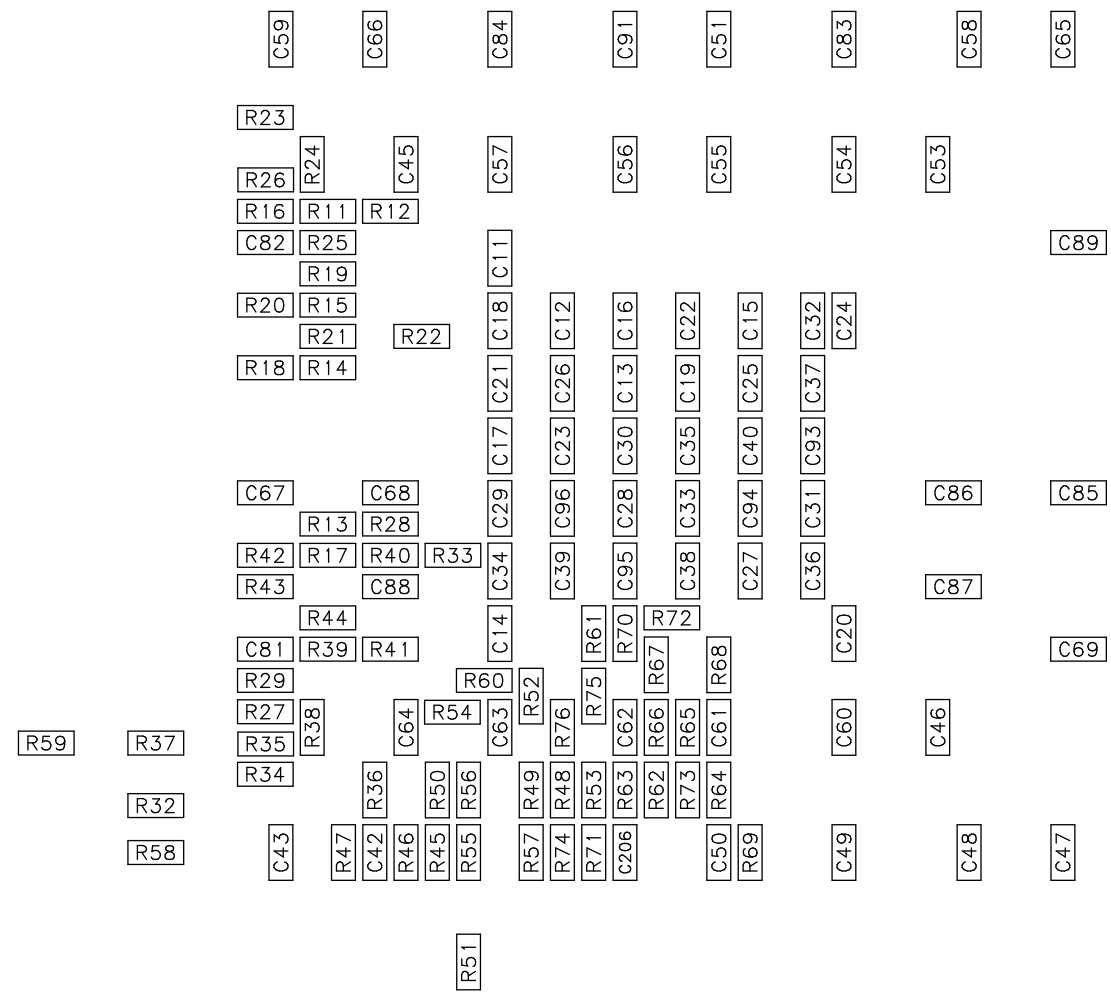
C6

C8

C103

C1

C116





|    | A      | B                | C  | D               | E                       | F   | G               | H |
|----|--------|------------------|--|-----------------|-------------------------|---|-----------------|---|
| 1  |        |                  | B2920 Bill of mateirals (Burn-in Controller) |                 |                         |   |                 |   |
| 2  |        |                  | org. 2/11/2020                               | Rev. 07/15/2020 |                         |   |                 |   |
| 3  | Item # | Part#            | Geometry                                     | QTY/Board       | Inventory for 10 Boards | Reference Designator  |                 |   |
| 4  | 1      | EPCQ4            | soic8  | 1               | 10                      | U100  |                 |   |
| 5  | 2      | MAX6161          | soic8  | 1               | 10                      | U7  |                 |   |
| 6  | 3      | MAX11331         | QFN32_5x5mm                                  | 3               | 30                      | U10, U9, U6, U5   |                 |   |
| 7  | 4      | TPS82084         | uSil8  | 2               | 20                      | U11, U2   |                 |   |
| 8  | 5      | EP4CE115F780     | fpga_780                                     | 1               | 10                      | U1  |                 |   |
| 9  | 6      | Res. 25.5        | R0402  | 2               | 20                      | RT10, R106  |                 |   |
| 10 | 7      | Res. 1K          | R0402  | 1               | 10                      | R105  |                 |   |
| 11 | 8      | Res. 10K         | R0402  | 12              | 120                     | R104, R103, R102, R101, R100, R30, R10, R9, R8, R7, R6, R1  |                 |   |
| 12 | 9      | Res. 200         | R0402  | 1               | 10                      | R31   |                 |   |
| 13 | 10     | Res. 162K        | R0402  | 1               | 10                      | R5  |                 |   |
| 14 | 11     | Res. 80.6K       | R0402  | 2               | 20                      | R4, R2  |                 |   |
| 15 | 12     | Res. 172K        | R0402  | 1               | 10                      | R3  |                 |   |
| 16 | 13     | ECS-3525-400-B   | ck40_5x3.2mm                                 | 1               | 10                      | QZ1   |                 |   |
| 17 | 14     | WM1352-ND        | Molex_header_5569_04A                        | 1               | 10                      | P1  |                 |   |
| 18 | 15     | LEAD RED LED     | led_2.5x5mm                                  | 1               | 10                      | LED3V3  |                 |   |
| 19 | 16     | 103310-1         | jtag_connst                                  | 1               | 10                      | J100  |                 |   |
| 20 | 17     | 3M 60-pin connec | conn60                                       | 2               | 20                      | J10, J11  |                 |   |
| 21 | 18     | CA-60-pin connec | CONN60_CA                                    | 4               | 40                      | J3, J4, J7, J8  |                 |   |
| 22 | 19     | 3M 20-pin connec | CONN10x2                                     | 4               | 40                      | J1,J2, J5, J6   |                 |   |
| 23 | 20     | Cap. 0.1uF       | c0402  | 24              | 240                     | C118, C107, C106, C105, C104, C102, C101, C100, C92, C90, C80, C79, C78, C77, C76, C75, C118, C74, C73, C72, C71, C52, C44, C2  |                 |   |
| 24 | 20     | Cap. 0.1uF       | C0402  | 73              | 730                     | C70, C71, C72, C73, C74, C11, C12, C13, C14, C15, C16, C17, C19, C20, C21, C22, C23, C24, C26, C27, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C103, C42, C43, C44, C206, C45, C46, C47, C48, C49, C98, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C81, C82, C83, C84, C85, C86, C87, C88, C89, C91 | Missed on Mount |   |
| 25 | 21     | Cap. 100uF       | c0805  | 10              | 100                     | C200, C117, C115, C114, C113, C10, C9, C7, C4, C3   |                 |   |
| 26 | 21     | Cap. 100uF       | c0805  | 11              | 110                     | C25, C28, C142, C144, C5, C6, C8, C116, C1, C117, C280  | Missed on Mount |   |
| 27 | 22     | 100 ohms Res     | R0402  | 64              | 640                     | R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76  |                 |   |