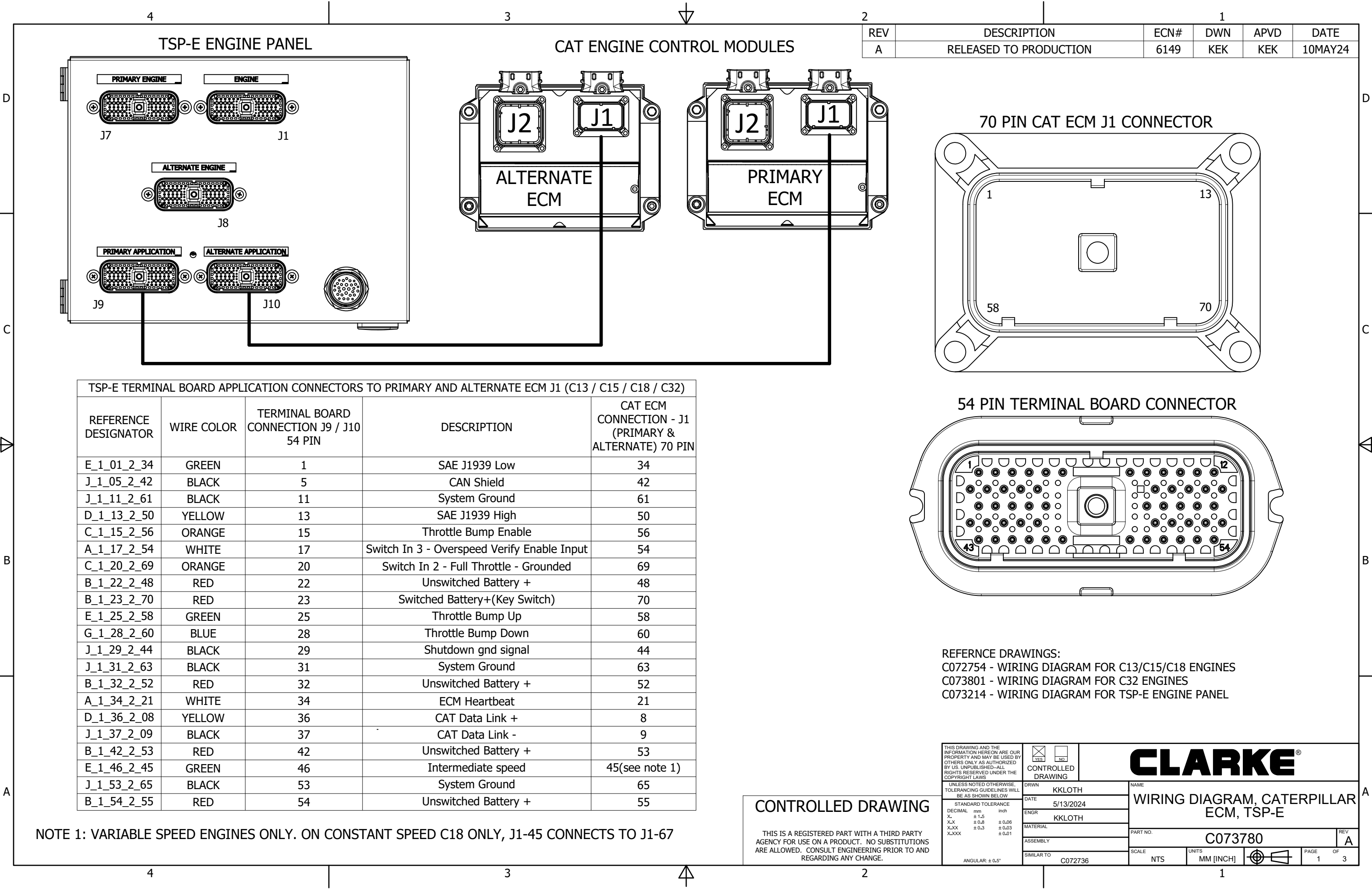


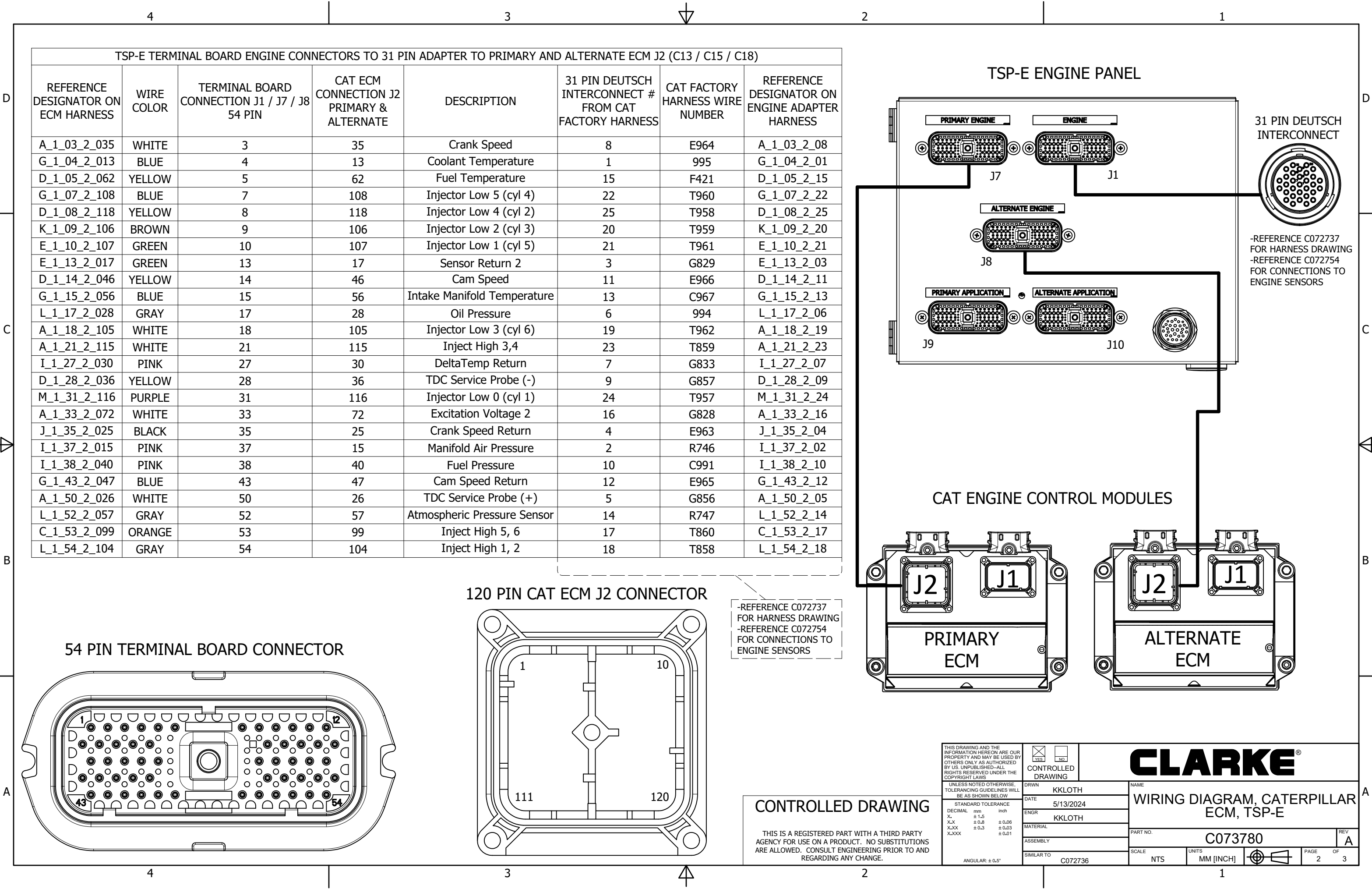


| REV | DESCRIPTION            | ECN# | DWN | APVD | DATE    |
|-----|------------------------|------|-----|------|---------|
| A   | RELEASED TO PRODUCTION | 6149 | KEK | KEK  | 10MAY24 |

CONTROLLED DRAWING

THIS IS A REGISTERED PART WITH A THIRD PARTY AGENCY FOR USE ON A PRODUCT. NO SUBSTITUTIONS ARE ALLOWED. CONSULT ENGINEERING PRIOR TO AND REGARDING ANY CHANGE.

|                                                                                                                                                                        |  |                                                                     |  |                |  |
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| UNLESS NOTED OTHERWISE, TOLERANCING GUIDELINES WILL BE AS SHOWN BELOW                                                                                                  |  | CONTROLLED DRAWING                                                  |  | NAME           |  |
| STANDARD TOLERANCE                                                                                                                                                     |  | DRWN                                                                |  | DATE           |  |
| DECIMAL mm inch                                                                                                                                                        |  | 5/13/2024                                                           |  | ENGR           |  |
| X. ± 1.5                                                                                                                                                               |  | KKLOTH                                                              |  | MATERIAL       |  |
| X.X ± 0.8 ± 0.06                                                                                                                                                       |  | ASSEMBLY                                                            |  | PART NO.       |  |
| X.XX ± 0.3 ± 0.03                                                                                                                                                      |  | SIMILAR TO                                                          |  | C073780        |  |
| X.XXX ± 0.1                                                                                                                                                            |  | C072736                                                             |  | REV            |  |
| ANGULAR: ± 0.5°                                                                                                                                                        |  | SCALE                                                               |  | A              |  |
|                                                                                                                                                                        |  | NTS                                                                 |  | PAGE 1 OF 3    |  |
|                                                                                                                                                                        |  | UNITS                                                               |  | MM [INCH]      |  |



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UNLESS NOTED OTHERWISE, TOLERANCING GUIDELINES WILL BE AS SHOWN BELOW

| DECIMAL | mm    | inch   |
|---------|-------|--------|
| X.      | ± 1.5 | ± 0.06 |
| X.X     | ± 0.8 | ± 0.03 |
| X.XX    | ± 0.3 | ± 0.01 |
| X.XXX   |       |        |

ANGULAR: ± 0.5°

☒ YES ☐ NO

CONTROLLED DRAWING

DRWN KKLOTH

DATE 5/13/2024

ENGR KKLOTH

MATERIAL

ASSEMBLY

SIMILAR TO C072736

NAME

WIRING DIAGRAM, CATERPILLAR ECM, TSP-E

PART NO. C073780

SCALE NTS

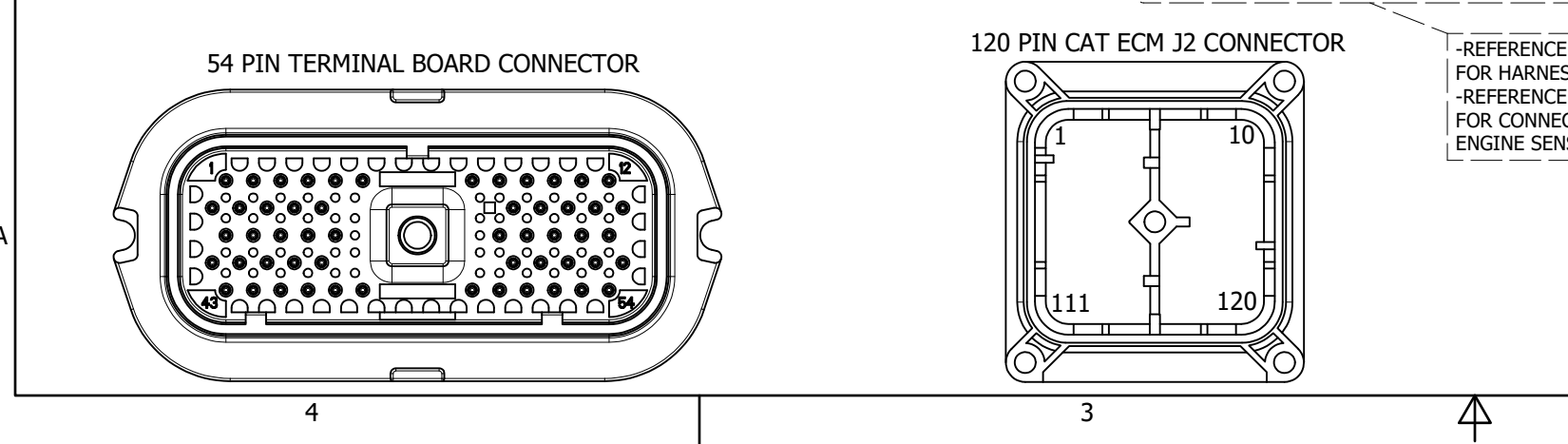
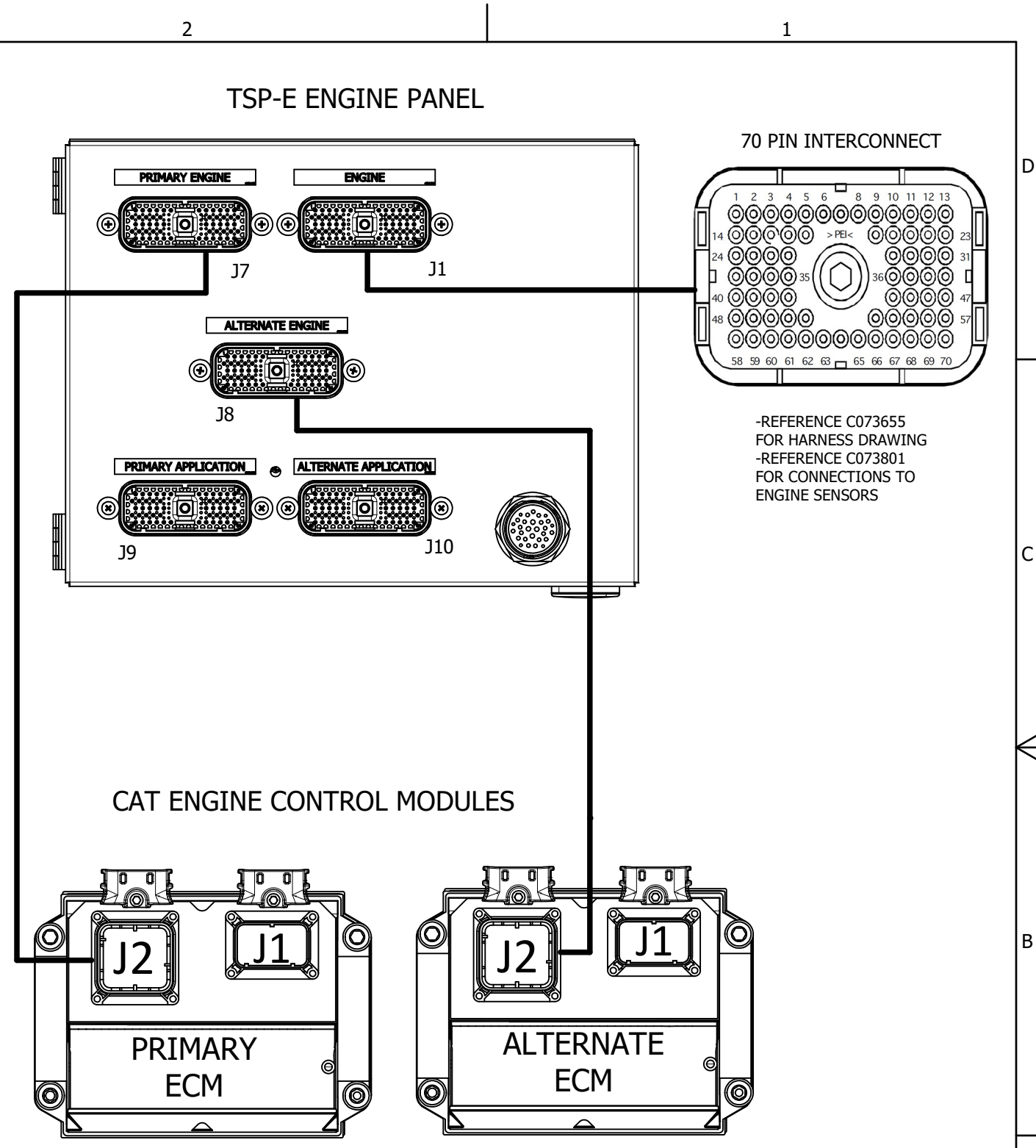
UNITS MM [INCH]

REV A

PAGE 2 OF 3

CLARKE®

| 4                                                                                               |            |                                                |                                             | 3                                        |                                                |                                                |
|-------------------------------------------------------------------------------------------------|------------|------------------------------------------------|---------------------------------------------|------------------------------------------|------------------------------------------------|------------------------------------------------|
| TSP-E TERMINAL BOARD ENGINE CONNECTORS TO 70 PIN ADAPTER TO PRIMARY AND ALTERNATE ECM J2 (C32)) |            |                                                |                                             |                                          |                                                |                                                |
| REFERENCE DESIGNATOR ON ECM HARNESS                                                             | WIRE COLOR | TERMINAL BOARD CONNECTION J1 / J7 / J8, 54 PIN | CAT ECM CONNECTION - J2 PRIMARY & ALTERNATE | DESCRIPTION                              | 70 PIN INTERCONNECT # FROM CAT FACTORY HARNESS | REFERENCE DESIGNATOR ON ENGINE ADAPTER HARNESS |
| I_1_02_2_068                                                                                    | PINK       | 2                                              | 68                                          | Injector 2,4 HS                          | 26                                             | I_1_2_2_26                                     |
| A_1_03_2_035                                                                                    | WHITE      | 3                                              | 35                                          | Crankshaft Position +                    | 8                                              | A_1_3_2_8                                      |
| G_1_04_2_013                                                                                    | BLUE       | 4                                              | 13                                          | Coolant Temperature - Signal             | 1                                              | G_1_4_2_1                                      |
| D_1_05_2_062                                                                                    | YELLOW     | 5                                              | 62                                          | Fuel Temperature - Signal                | 15                                             | D_1_5_2_15                                     |
| G_1_07_2_108                                                                                    | BLUE       | 7                                              | 108                                         | Injector 7 LS                            | 32                                             | G_1_7_2_32                                     |
| D_1_08_2_118                                                                                    | YELLOW     | 8                                              | 118                                         | Injector 3 LS                            | 35                                             | D_1_8_2_35                                     |
| K_1_09_2_106                                                                                    | BROWN      | 9                                              | 106                                         | Injector 5 LS                            | 30                                             | K_1_9_2_30                                     |
| E_1_10_2_107                                                                                    | GREEN      | 10                                             | 107                                         | Injector 9 LS                            | 31                                             | E_1_10_2_31                                    |
| C_1_11_2_018                                                                                    | ORANGE     | 11                                             | 18                                          | Injector 8 LS                            | 18                                             | C_1_11_2_18                                    |
| L_1_12_2_021                                                                                    | GRAY       | 12                                             | 21                                          | Injector 10 LS                           | 19                                             | L_1_12_2_19                                    |
| E_1_13_2_017                                                                                    | GREEN      | 13                                             | 17                                          | Pressure Sensor Return                   | 3                                              | E_1_13_2_3                                     |
| D_1_14_2_046                                                                                    | YELLOW     | 14                                             | 46                                          | Camshaft Position +                      | 11                                             | D_1_14_2_11                                    |
| K_1_15_2_056                                                                                    | BROWN      | 15                                             | 56                                          | Intake Manifold Air Temperature - Signal | 13                                             | K_1_15_2_13                                    |
| L_1_17_2_028                                                                                    | GRAY       | 17                                             | 28                                          | Oil Pressure - Signal                    | 6                                              | L_1_17_2_6                                     |
| A_1_18_2_105                                                                                    | WHITE      | 18                                             | 105                                         | Injector 11 LS                           | 29                                             | A_1_18_2_29                                    |
| A_1_19_2_022                                                                                    | WHITE      | 19                                             | 22                                          | Injector 4 LS                            | 20                                             | A_1_19_2_20                                    |
| L_1_20_2_067                                                                                    | GRAY       | 20                                             | 67                                          | Injector 6,8 HS                          | 25                                             | L_1_20_2_25                                    |
| A_1_21_2_115                                                                                    | WHITE      | 21                                             | 115                                         | Injector 5,7 HS                          | 33                                             | A_1_21_2_33                                    |
| K_1_22_2_031                                                                                    | BROWN      | 22                                             | 31                                          | Injector 6 LS                            | 21                                             | K_1_22_2_21                                    |
| I_1_27_2_030                                                                                    | PINK       | 27                                             | 30                                          | Temperature Sensor - Return              | 7                                              | I_1_27_2_7                                     |
| D_1_28_2_36                                                                                     | YELLOW     | 28                                             | 36                                          | Timing Cal Probe -                       | 9                                              | D_1_28_2_9                                     |
| M_1_31_2_116                                                                                    | VIOLET     | 31                                             | 116                                         | Injector 1 LS                            | 34                                             | M_1_31_2_34                                    |
| E_1_32_2_042                                                                                    | GREEN      | 32                                             | 42                                          | Injector 12 LS                           | 22                                             | E_1_32_2_22                                    |
| A_1_33_2_072                                                                                    | WHITE      | 33                                             | 72                                          | Pressure Sensor Supply (+5V)             | 16                                             | A_1_33_2_16                                    |
| J_1_35_2_025                                                                                    | BLACK      | 35                                             | 25                                          | Crankshaft Position -                    | 4                                              | J_1_35_2_4                                     |
| I_1_37_2_015                                                                                    | PINK       | 37                                             | 15                                          | Intake Manifold Pressure - Signal        | 2                                              | I_1_37_2_2                                     |
| I_1_38_2_040                                                                                    | PINK       | 38                                             | 40                                          | Fuel Pressure - Signal                   | 10                                             | I_1_38_2_10                                    |
| G_1_41_2_050                                                                                    | BLUE       | 41                                             | 50                                          | Injector 2 LS                            | 23                                             | G_1_41_2_23                                    |
| A_1_42_2_058                                                                                    | WHITE      | 42                                             | 58                                          | Injector 12,10 HS                        | 24                                             | A_1_42_2_24                                    |
| G_1_43_2_047                                                                                    | BLUE       | 43                                             | 47                                          | Camshaft Position -                      | 12                                             | G_1_43_2_12                                    |
| A_1_50_026                                                                                      | WHITE      | 50                                             | 26                                          | Timing Cal Probe +                       | 5                                              | A_1_50_2_5                                     |
| L_1_52_2_057                                                                                    | GRAY       | 52                                             | 57                                          | Atmospheric Pressure - Signal            | 14                                             | L_1_52_2_14                                    |
| C_1_53_2_099                                                                                    | ORANGE     | 53                                             | 99                                          | Injector 11,9 HS                         | 27                                             | C_1_53_2_27                                    |
| L_1_54_2_104                                                                                    | GRAY       | 54                                             | 104                                         | Injector 1,3 HS                          | 28                                             | L_1_54_2_28                                    |



|                                                                                                  |  |                                                                                                                                                                                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div>C073655</div> <div>SS DRAWING</div> <div>C073801</div> <div>CTIONS TO</div> <div>SORS</div> |  | <div>THIS DRAWING AND THE INFORMATION HEREON ARE OUR PROPERTY AND MAY BE USED BY OTHERS ONLY AS AUTHORIZED BY U.S. UNPUBLISHED--ALL RIGHTS RESERVED UNDER THE COPYRIGHT LAWS</div> <div><div><input checked="" type="checkbox"/></div>YES</div> <div><input type="checkbox"/></div> NO |  |
|--------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

CONTROLLED DRAWING

 CLARKE® | || UNLESS NOTED OTHERWISE, TOLERANCING GUIDELINES WILL BE AS SHOWN BELOW  STANDARD TOLERANCE   | DECIMAL | mm    | inch   | |---------|-------|--------| | X.      | ± 1.5 |        | | X.X     | ± 0.8 | ± 0.06 | | X.XX    | ± 0.3 | ± 0.03 | | X.XXX   |       | ± 0.01 |   ANGULAR: ± 0.5° | | DRWN KKLOTH  DATE 5/13/2024  ENGR KKLOTH  MATERIAL  ASSEMBLY  SIMILAR TO C072736 | | NAME  WIRING DIAGRAM, CATERPILLAR ECM, TSP-E  PART NO. C073780  SCALE NTS  UNITS MM [INCH]    PAGE 3 OF 3  REV A | |
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