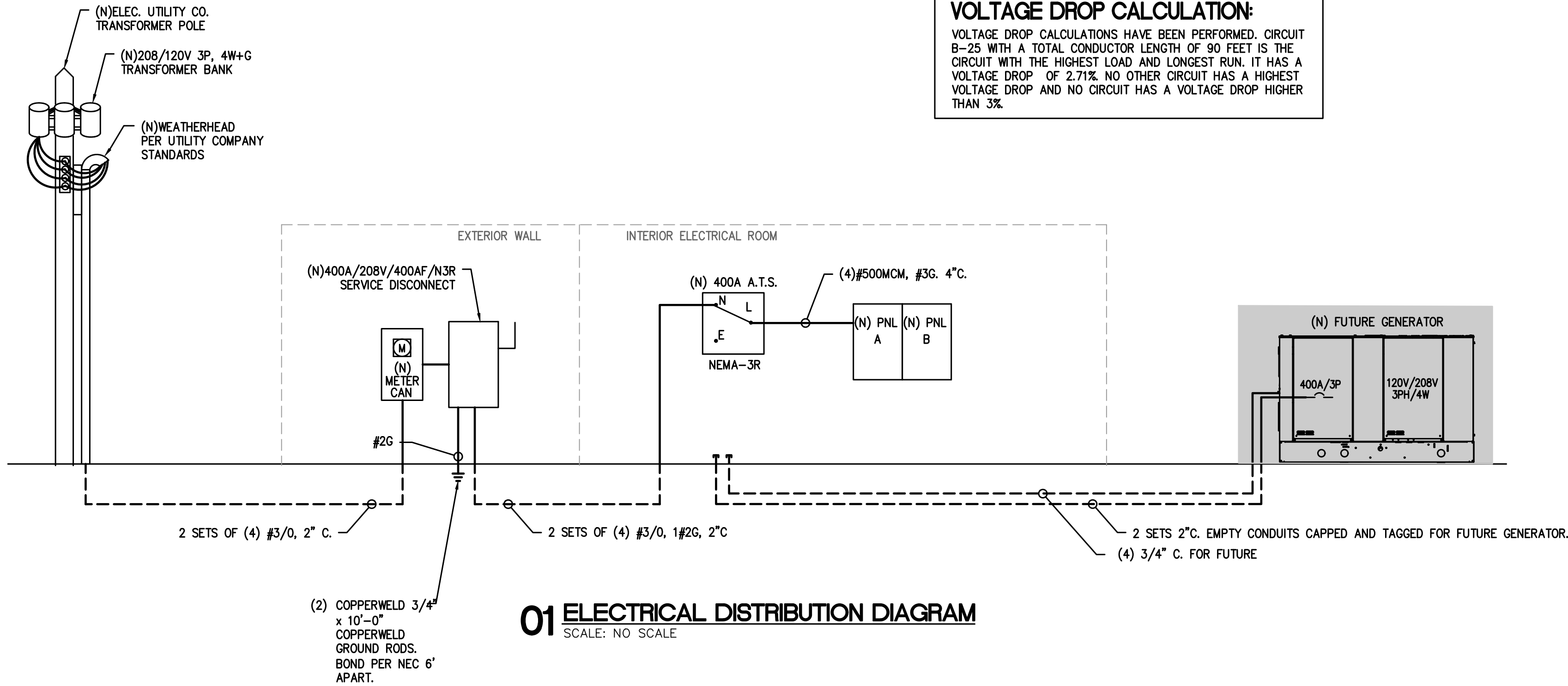


|                                                                                               |      |                     |      |     |    |     |      |                      |      |      |
|-----------------------------------------------------------------------------------------------|------|---------------------|------|-----|----|-----|------|----------------------|------|------|
| PROJECT NAME: NATIONAL BANK & TRUST -- BASTROP                                                |      |                     |      |     |    |     |      |                      |      |      |
| PROJECT NUMBER: 26129.00                                                                      |      |                     |      |     |    |     |      |                      |      |      |
| PANEL: A NEW PANEL                                                                            |      |                     |      |     |    |     |      |                      |      |      |
| VOLTAGE: 120/208V, 3PH, 4W BUS: 400 AMP MAINS: 400A MCB ACCESSORIES: FEED-THROUGH LUGS        |      |                     |      |     |    |     |      |                      |      |      |
| CODES: 0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LGST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED |      |                     |      |     |    |     |      |                      |      |      |
| CODE                                                                                          | LOAD | CIRCUIT DESCRIPTION | BKR  | CKT | PH | CKT | BKR  | CIRCUIT DESCRIPTION  | LOAD | CODE |
| 1                                                                                             | 900  | REC. LOBBY          | 20/1 | 1   | A  | 2   | 20/1 | INTERIOR LIGHTING    | 997  | 0    |
| 2                                                                                             | 600  | TV LOBBY            | 20/1 | 3   | B  | 4   | 20/1 | INTERIOR LIGHTING    | 491  | 0    |
| 1                                                                                             | 720  | REC.                | 20/1 | 5   | C  | 6   | 20/1 | EXTERIOR LIGHTING    | 721  | 0    |
| 1                                                                                             | 720  | REC.                | 20/2 | 7   | A  | 8   | 20/2 | PARKING LOT LIGHTING | 1080 | 0    |
| 2                                                                                             | 900  | PC                  | 20/2 | 9   | B  | 10  | 20/1 | PARKING LOT LIGHTING | 1080 | 0    |
| 1                                                                                             | 1440 | REC.                | 20/2 | 11  | C  | 12  | 20/1 | MONUMENT SIGN        | 1200 | 0    |
| 2                                                                                             | 600  | PC                  | 20/1 | 13  | A  | 14  | 20/1 | LIGHTING             | 500  | 0    |
| 1                                                                                             | 1080 | REC.                | 20/2 | 15  | B  | 16  | 20/1 | MONUMENT SIGN        | 1200 | 0    |
| 2                                                                                             | 600  | EDF                 | 20/1 | 17  | C  | 18  | 20/1 | ATM                  | 500  | 2    |
| 1                                                                                             | 900  | GFI REC.            | 20/1 | 19  | A  | 20  | 20/1 | TRANSACTION PEDESTAL | 1000 | 2    |
| 2                                                                                             | 1200 | COPIER              | 20/1 | 21  | B  | 22  | 20/1 | TUBE STATION         | 1000 | 2    |
| 1                                                                                             | 900  | REC.                | 20/1 | 23  | C  | 24  | 20/1 | SIGN                 | 1200 | 0    |
| 1                                                                                             | 180  | REC. BR RM          | 20/1 | 25  | A  | 26  | 20/1 | SIGN                 | 1200 | 0    |
| 6                                                                                             | 800  | REF.                | 20/1 | 27  | B  | 28  | 20/1 | EF                   | 84   | 3    |
| 1                                                                                             | 800  | GARAGE DISPOSAL     | 20/1 | 29  | C  | 30  | 20/2 | PC                   | 1200 | 2    |
| 1                                                                                             | 540  | GFCO REC.           | 20/1 | 31  | A  | 32  | 20/1 | GP REC.              | 720  | 1    |
| 2                                                                                             | 900  | REC.                | 20/1 | 33  | B  | 34  | 20/1 | TV                   | 600  | 2    |
| 1                                                                                             | 500  | ATM MACHINE         | 20/1 | 35  | C  | 36  | 20/1 | ICE MAKER            | 500  | 6    |
| 2                                                                                             | 1200 | SIGN                | 20/1 | 37  | A  | 38  | 20/1 | FUTURE ATM           | 500  | 2    |
| 0                                                                                             | 540  | WP/GFCI REC.        | 20/1 | 39  | B  | 40  | 20/1 | DED.                 | 500  | 2    |
| 1                                                                                             |      |                     | 20/1 | 41  | C  | 42  | 20/1 | REC.                 | 1080 | 1    |
| SUB-FEED PANELS:                                                                              |      |                     |      |     |    |     |      |                      |      |      |
| PANEL NAME S.F. KVA LOAD FACTORS DES. KVA DES. AMP                                            |      |                     |      |     |    |     |      |                      |      |      |
| PANEL B 41.4 SUB FEED @ 100% 41.4 115                                                         |      |                     |      |     |    |     |      |                      |      |      |
| GRAND TOTAL 77.3 215                                                                          |      |                     |      |     |    |     |      |                      |      |      |

|                                                                                               |      |                     |  |  |  |      |     |    |     |      |                     |      |      |
|-----------------------------------------------------------------------------------------------|------|---------------------|--|--|--|------|-----|----|-----|------|---------------------|------|------|
| PROJECT NAME: NATIONAL BANK & TRUST -- BASTROP                                                |      |                     |  |  |  |      |     |    |     |      |                     |      |      |
| PROJECT NUMBER: 26129.00                                                                      |      |                     |  |  |  |      |     |    |     |      |                     |      |      |
| PANEL: B NEW PANEL                                                                            |      |                     |  |  |  |      |     |    |     |      |                     |      |      |
| VOLTAGE: 120/208V, 3PH, 4W BUS: 400 AMP MAINS: M.L.O. ACCESSORIES: FEED-THROUGH LUGS          |      |                     |  |  |  |      |     |    |     |      |                     |      |      |
| CODES: 0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LGST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED |      |                     |  |  |  |      |     |    |     |      |                     |      |      |
| CODE                                                                                          | LOAD | CIRCUIT DESCRIPTION |  |  |  | BKR  | CKT | PH | CKT | BKR  | CIRCUIT DESCRIPTION | LOAD | CODE |
| 3                                                                                             | 5824 | AHU-1               |  |  |  | 70/2 | 1   | A  | 2   | 25/3 | CU-1                | 2402 | 7    |
| 3                                                                                             | 5824 | AHU-2               |  |  |  | 70/2 | 3   | B  | 4   | -    | -                   | 2402 | 7    |
| 3                                                                                             | 5824 | AHU-3               |  |  |  | 50/2 | 5   | C  | 6   | 25/3 | CU-2                | 2402 | 7    |
| 3                                                                                             | 3911 | WH-1                |  |  |  | 20/2 | 9   | B  | 10  | 20/3 | CU-3                | 2402 | 7    |
| 4                                                                                             | 1500 | REC. ATTIC          |  |  |  | 20/1 | 11  | C  | 12  | 20/3 | CU-4                | 1729 | 7    |
| 1                                                                                             | 500  | DED.                |  |  |  | 20/1 | 13  | A  | 14  | 20/3 | CU-5                | 1729 | 7    |
| 2                                                                                             | 1200 | PC                  |  |  |  | 20/2 | 15  | B  | 16  | 20/3 | CU-6                | 811  | 3    |
| 2                                                                                             | 1200 | GP REC.             |  |  |  | 20/1 | 17  | C  | 18  | 20/3 | CU-7                | 811  | 3    |
| 0                                                                                             | 1200 | EXTERIOR SIGN       |  |  |  | 20/1 | 19  | A  | 20  | 15/2 | CU-8                |      |      |
| 0                                                                                             | 114  | GROUND LIGHTING     |  |  |  | 20/1 | 21  | B  | 22  | 20/3 | CU-9                |      |      |
| 1                                                                                             | 720  | REC. DATA RM        |  |  |  | 20/1 | 23  | C  | 24  | 20/3 | CU-10               |      |      |
| 1                                                                                             | 360  | REC. DATA RM        |  |  |  | 20/1 | 25  | A  | 26  | 20/3 | CU-11               |      |      |
|                                                                                               |      | SPACE               |  |  |  | 20/1 | 27  | B  | 28  | 20/3 | CU-12               |      |      |
|                                                                                               |      | SPACE               |  |  |  | 20/1 | 29  | C  | 30  | 20/3 | CU-13               |      |      |
|                                                                                               |      | SPACE               |  |  |  | 20/1 | 31  | A  | 32  | 20/3 | CU-14               |      |      |
|                                                                                               |      | SPACE               |  |  |  | 20/1 | 33  | B  | 34  | 20/3 | CU-15               |      |      |
|                                                                                               |      | SPACE               |  |  |  | 20/1 | 35  | C  | 36  | 20/3 | CU-16               |      |      |
|                                                                                               |      | SPACE               |  |  |  | 20/1 | 37  | A  | 38  | 20/3 | CU-17               |      |      |
|                                                                                               |      | SPACE               |  |  |  | 20/1 | 39  | B  | 40  | 20/3 | CU-18               |      |      |
|                                                                                               |      | SPACE               |  |  |  | 20/1 | 41  | C  | 42  | 20/3 | CU-19               |      |      |
| SUB-FEED PANELS:                                                                              |      |                     |  |  |  |      |     |    |     |      |                     |      |      |
| PANEL NAME S.F. KVA LOAD FACTORS DES. KVA DES. AMP                                            |      |                     |  |  |  |      |     |    |     |      |                     |      |      |
| PANEL B 41.4 SUB FEED @ 100% 41.4 115                                                         |      |                     |  |  |  |      |     |    |     |      |                     |      |      |
| GRAND TOTAL 77.3 215                                                                          |      |                     |  |  |  |      |     |    |     |      |                     |      |      |

ELECTRICAL DISTRIBUTION DIAGRAM NOTES:

- CONDUCTOR SIZES SHOWN ARE FOR COPPER CONDUCTORS WITH THWN INSULATION IN EMT (4" C., OR LESS) OR RIGID CONDUIT (> 4" C.). PROVIDE GROUNDING CONDUCTORS FOR ALL CONDUIT. GROUNDING CONDUCTORS ARE NEEDED FOR ALL PVC CONDUIT.
- SHORT CIRCUIT CURRENT VALUES ARE GIVEN IN RMS SYMMETRICAL AMPERES. PREFIX 'FCA' INDICATES MAXIMUM AVAILABLE FAULT CURRENT. PREFIX 'FCLT' INDICATES APPARENT LET-THRU CURRENT FROM UPSTREAM CURRENT LIMITING DEVICE.
- ELECTRICAL SYSTEM SHALL BE FULLY RATED. SERIES RATED EQUIPMENT IS NOT ACCEPTABLE.
- PROVIDE FULL LENGTH, FULL SIZE INSULATED GROUND AND NEUTRAL BUS IN ALL PANELBOARDS.
- REFER TO ELECTRICAL UTILITY SPECIFICATIONS FOR ALL WORK AT SERVICE POINT OF ATTACHMENT.
- CONTRACTOR TO VERIFY FAULT CURRENT AVAILABLE AT UTILITY TRANSFORMER SECONDARY WITH ELECTRICAL UTILITY FOR THE FINAL SELECTION OF EQUIPMENT AIC RATINGS.
- SPARES AND SPACES ARE INDICATED ON PANELBOARD SCHEDULES.
- FLEXIBLE METAL CONDUIT SHALL NOT BE USED IN WET LOCATIONS OR WET AREAS.
- ALL FEEDER AND BRANCH CIRCUIT WIRING METHODS SHALL INCLUDE AN EQUIPMENT-GROUNDING CONDUCTOR PER NEC.
- ALL CONDUIT BELOW GRADE OR IN CONCRETE SLABS SHALL BE PVC. MAXIMUM CONDUIT SIZE FOR CONDUIT IN CONCRETE SLABS IS 3/4".
- A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2 X 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION. COH ELECTRICAL CODE 504.1.1.



VOLTAGE DROP CALCULATION: VOLTAGE DROP CALCULATIONS HAVE BEEN PERFORMED. CIRCUIT B-25 WITH A TOTAL CONDUCTOR LENGTH OF 90 FEET IS THE CIRCUIT WITH THE HIGHEST LOAD AND LONGEST RUN. IT HAS A VOLTAGE DROP OF 2.71%. NO OTHER CIRCUIT HAS A HIGHEST VOLTAGE DROP AND NO CIRCUIT HAS A VOLTAGE DROP HIGHER THAN 3%.

The information, ideas, designs, details, layouts, techniques, features, arrangements, plans, sequences, dimensions, allowances, tolerances, conceptions, specifications, intentions, technology or embodiments, as illustrated, arranged, displayed, noted, recorded, indicated, represented, disclosed, evidenced, detailed or otherwise reduced to tangible form hereon, either expressly, inherently or by implication, are the confidential and proprietary information of SLI Design, Inc., and shall not be used for any purpose other than the specific project or undertaking identified on the drawing title block or legend for which they are and have been prepared by SLI Design, Inc. Any other reproduction, disclosure or use of any portion of the confidential and proprietary information of SLI Design, Inc., shall be a breach of the obligation of confidence created by the acceptance of this drawing from SLI Design, Inc. for a specific project or Contract. Any copying, duplicating, reproducing, utilization, alteration, modification, revision or change to this drawing, is expressly prohibited unless done with the prior written consent or approval of SLI Design, Inc., and shall not be undertaken without receipt of such prior written approval. This drawing is loaned by SLI Design, Inc., for the limited purpose of complying with a specific Contract. The drawing remains the property of SLI Design, Inc., and shall be returned upon request or completion of the contract, unless specifically authorized by Contract, under which it was loaned.

