

SCALE:
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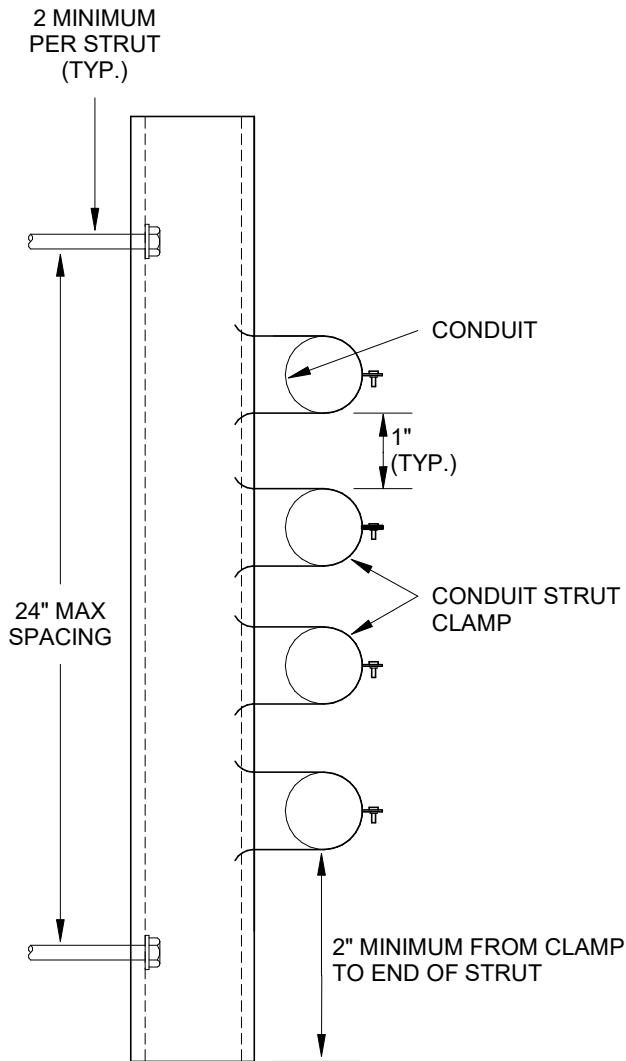


CONDUIT STUB-UP

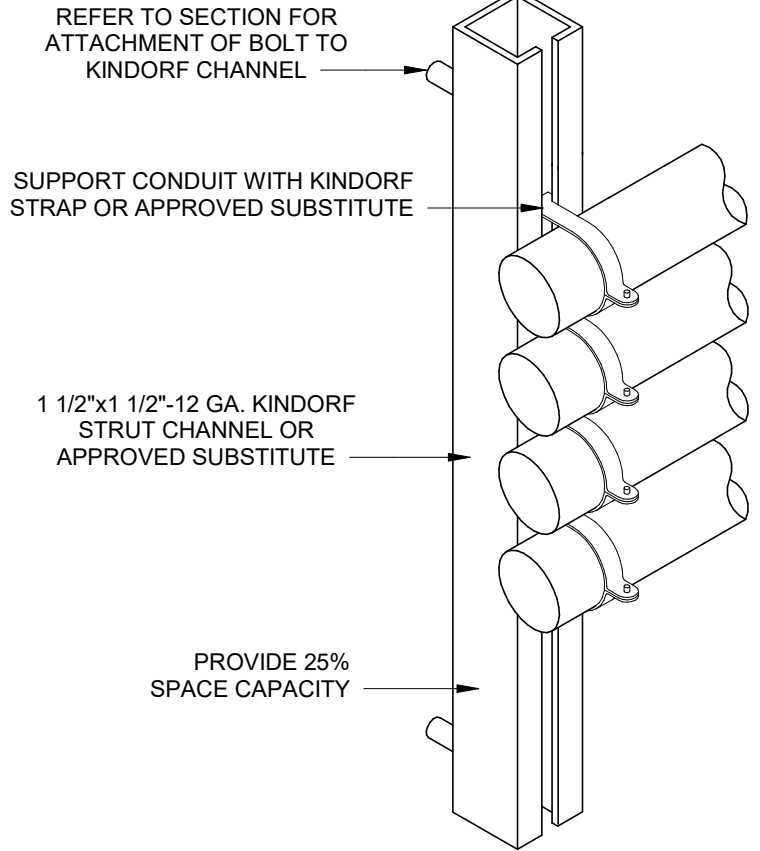
JOB: 2521CLWSC.001
 DATE: 24 JUNE 2021
 DESIGN: KC

SHEET:

1 OF 14



SECTIONAL VIEW



NOTE: ALL MATERIALS SHALL BE ALUMINUM UNLESS OTHERWISE APPROVED BY CLWSC

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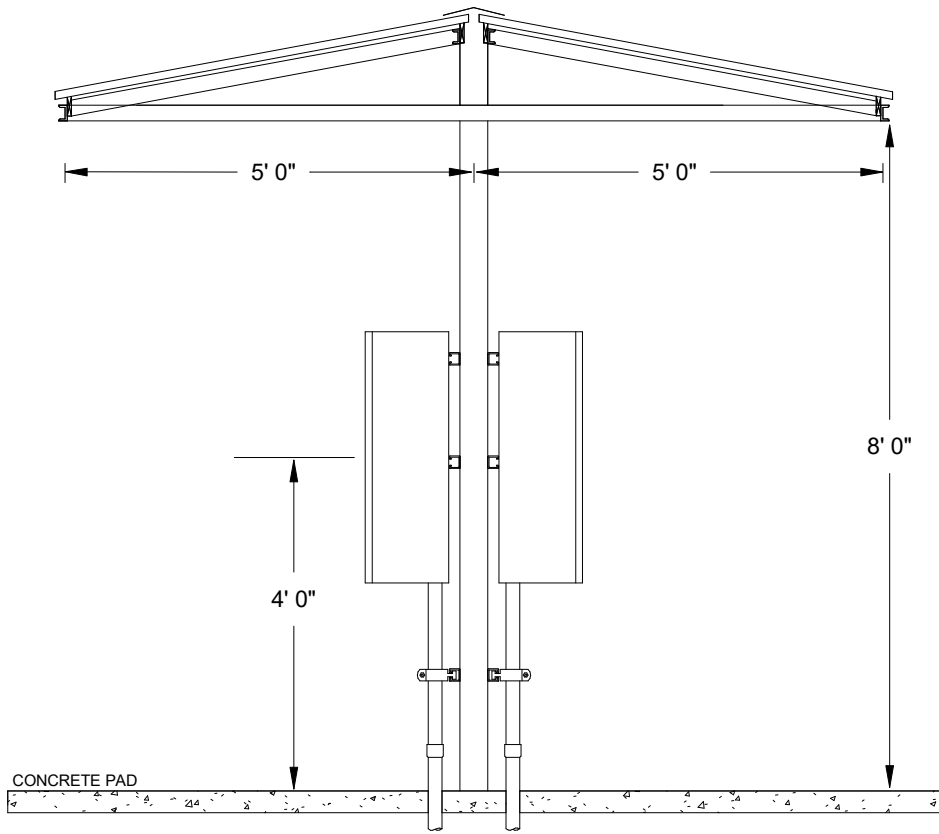


STRUT AND CLAMP DETAIL

JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:

2 OF 14



SCALE:
N.T.S.

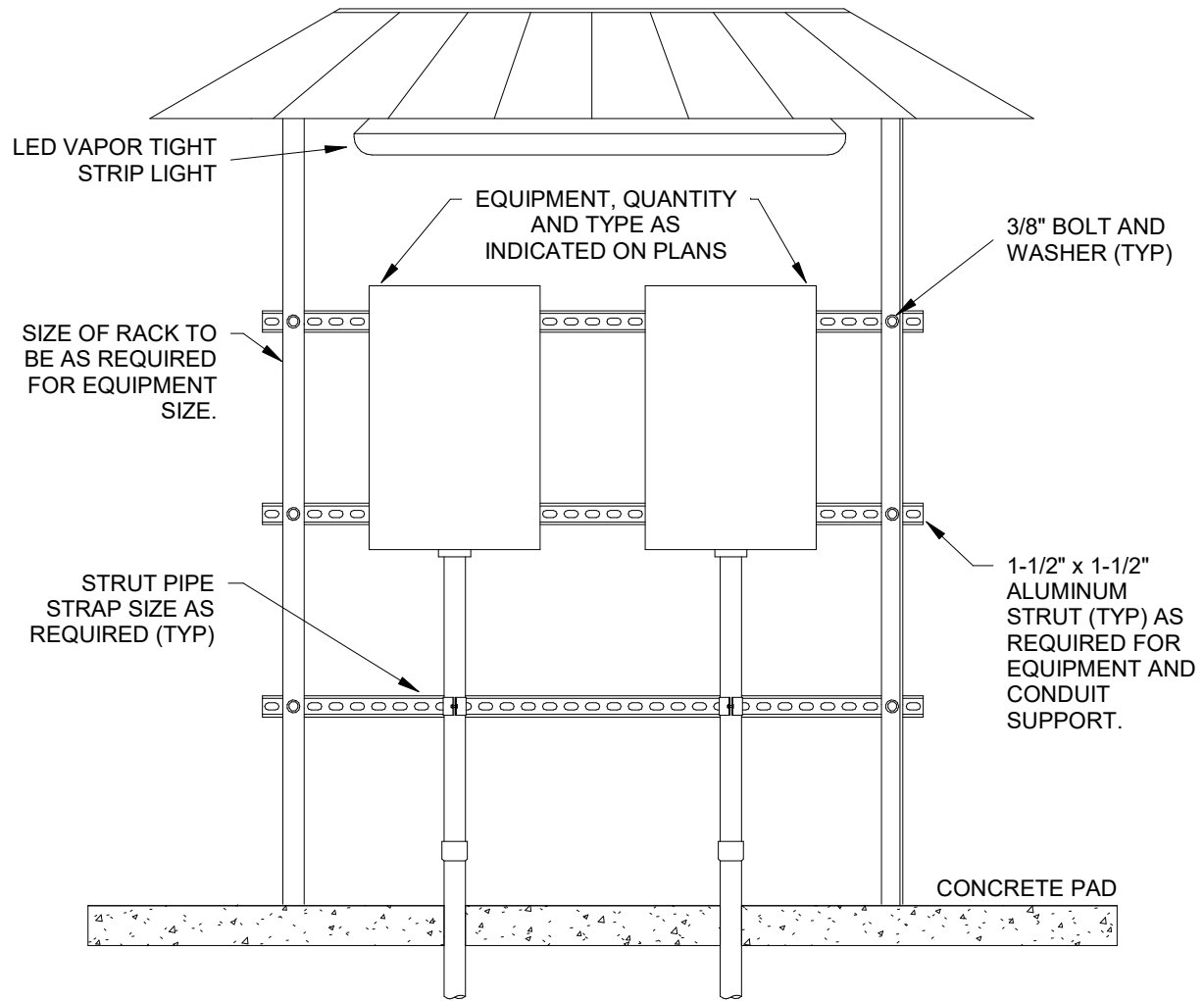
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**ELECTRICAL RACK
SHELTER – DOUBLE
SIDED**

JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:
3 OF 14



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N.T.S.

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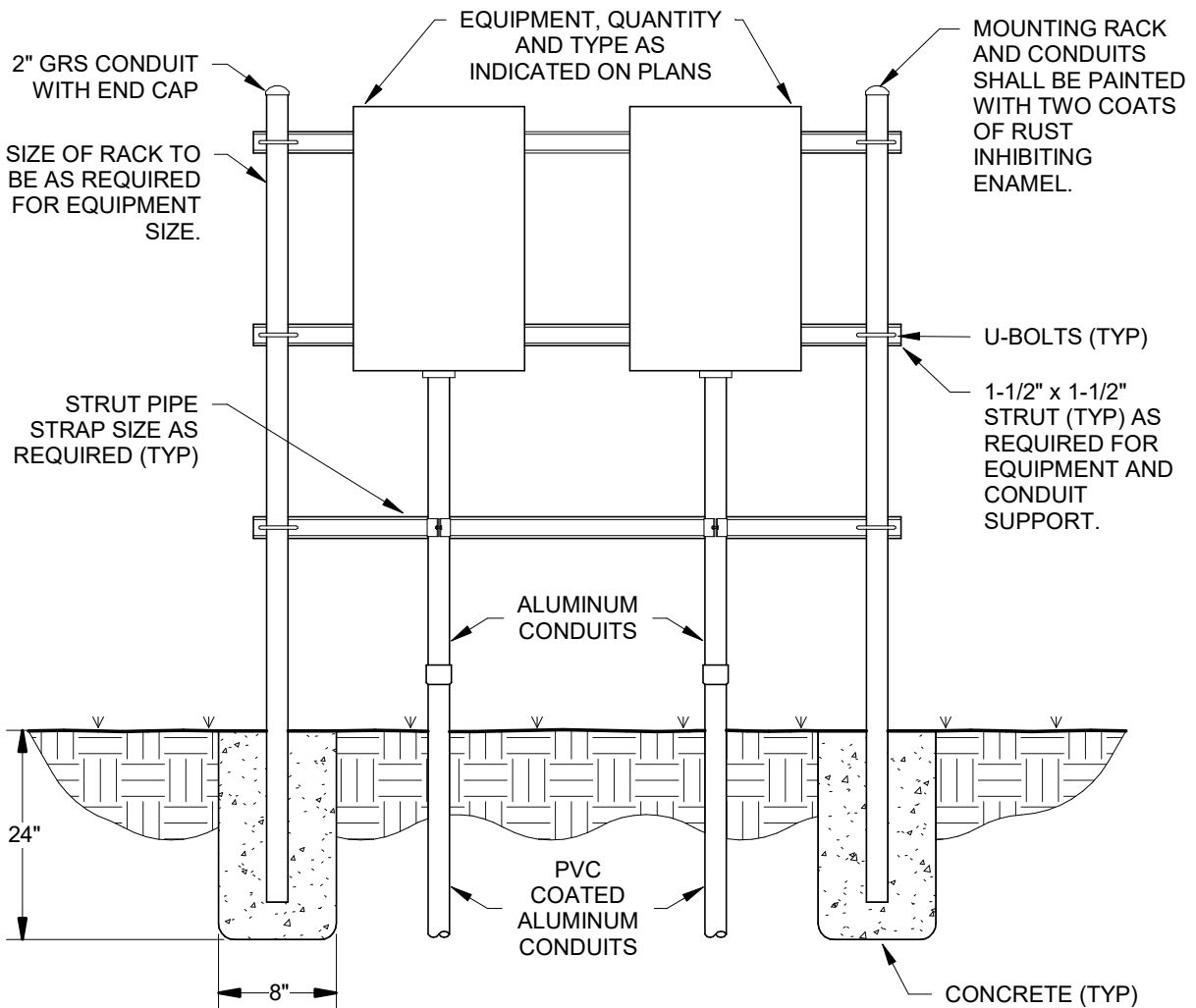


ELECTRICAL RACK SHELTER

JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:

4 OF 14



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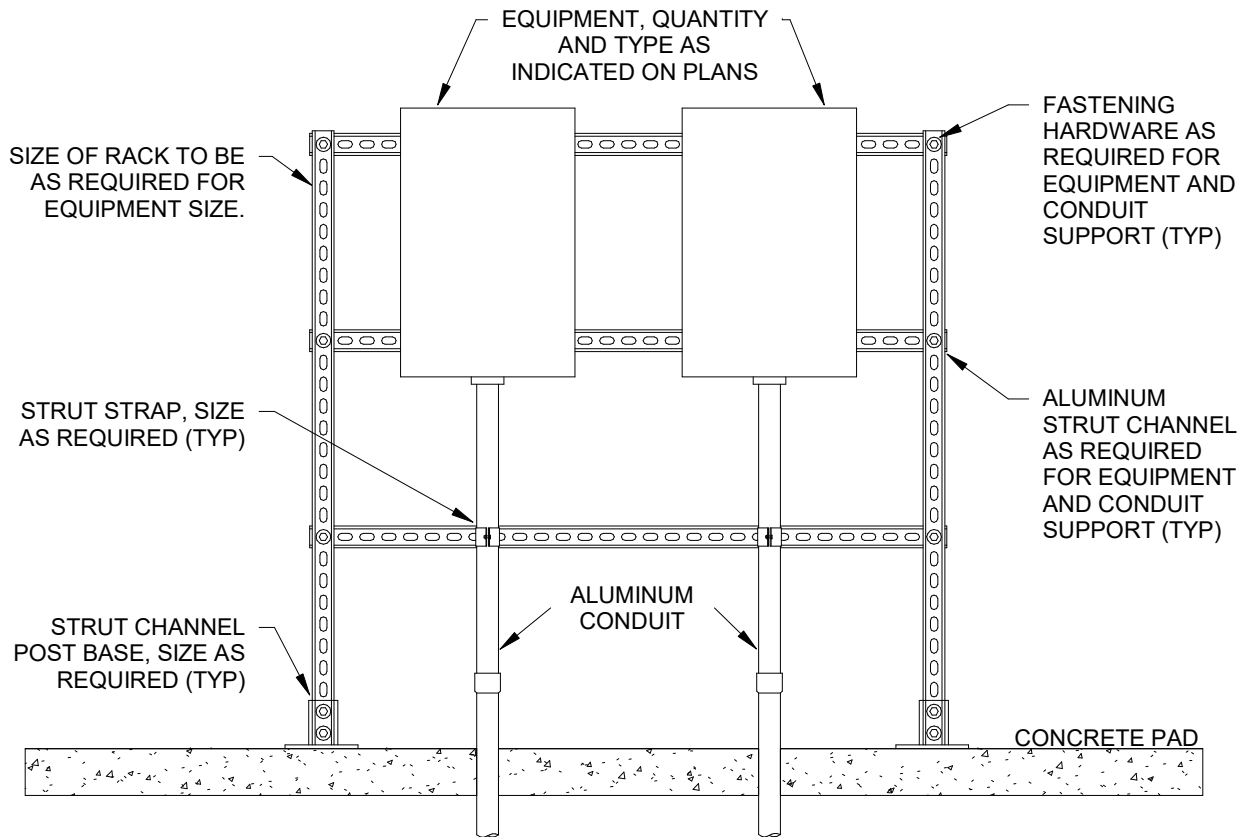


**EQUIPMENT RACK –
POLE MOUNTED**

JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:

5 OF 14



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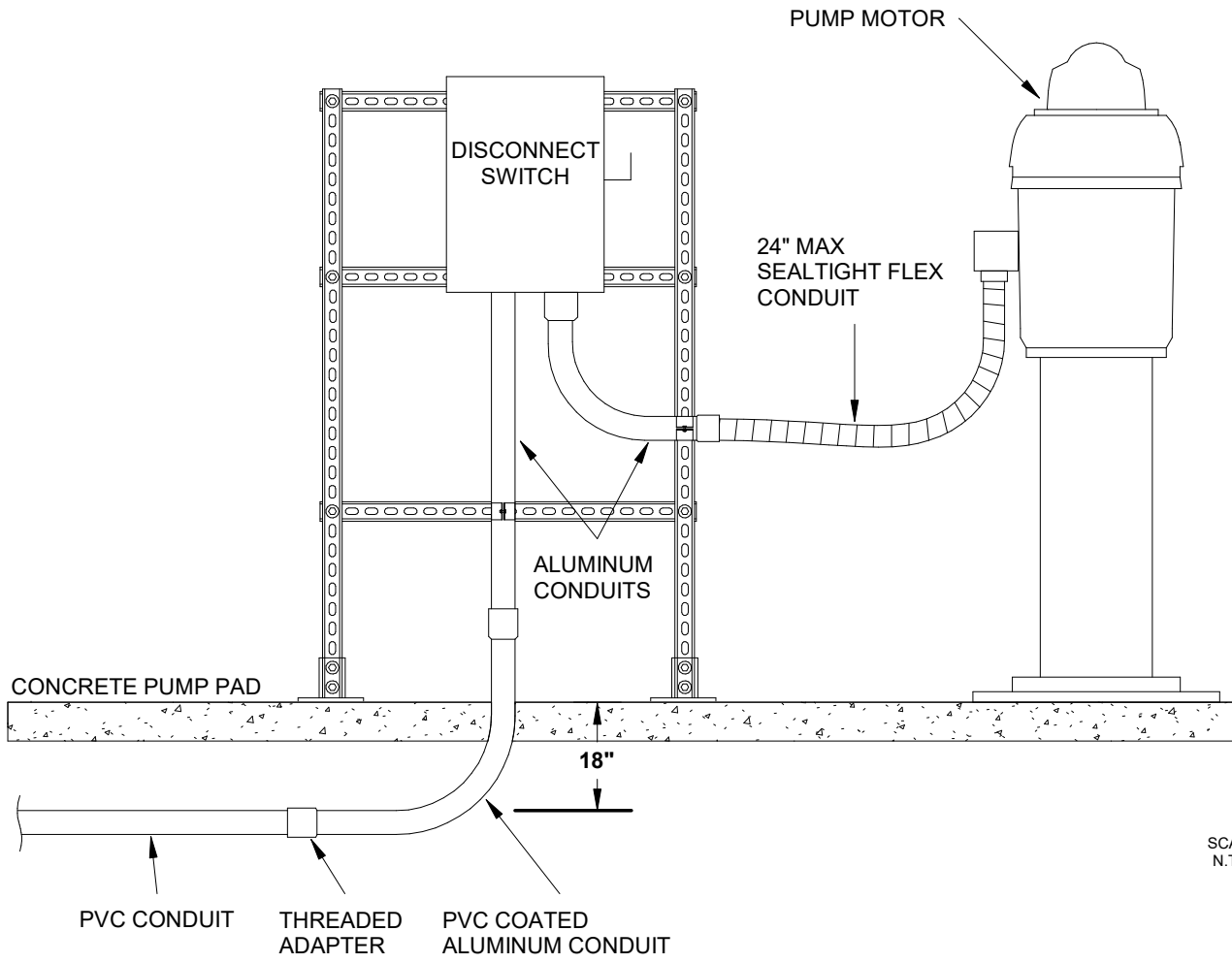


EQUIPMENT RACK – STRUT MOUNTED

JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:

6 OF 14



SCALE:
N.T.S.

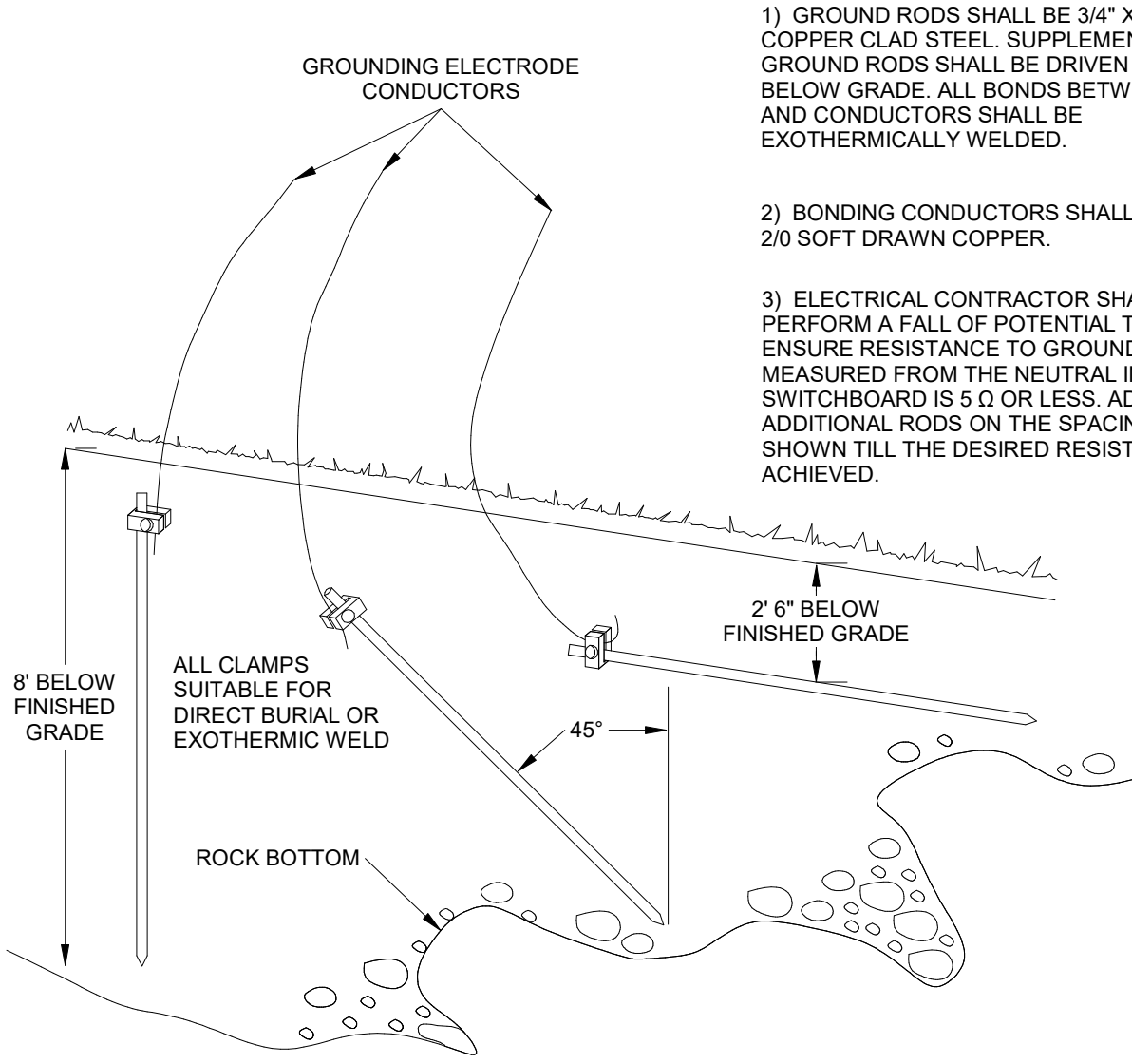


FLEXIBLE CONDUIT DETAIL

JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:

7 OF 14



- 1) GROUND RODS SHALL BE 3/4" X 10' COPPER CLAD STEEL. SUPPLEMENTAL GROUND RODS SHALL BE DRIVEN 12" BELOW GRADE. ALL BONDS BETWEEN RODS AND CONDUCTORS SHALL BE EXOTHERMICALLY WELDED.
- 2) BONDING CONDUCTORS SHALL BE BARE 2/0 SOFT DRAWN COPPER.
- 3) ELECTRICAL CONTRACTOR SHALL PERFORM A FALL OF POTENTIAL TEST TO ENSURE RESISTANCE TO GROUND AS MEASURED FROM THE NEUTRAL IN THE SWITCHBOARD IS 5 Ω OR LESS. ADD ADDITIONAL RODS ON THE SPACING SHOWN TILL THE DESIRED RESISTANCE IS ACHIEVED.

SCALE:
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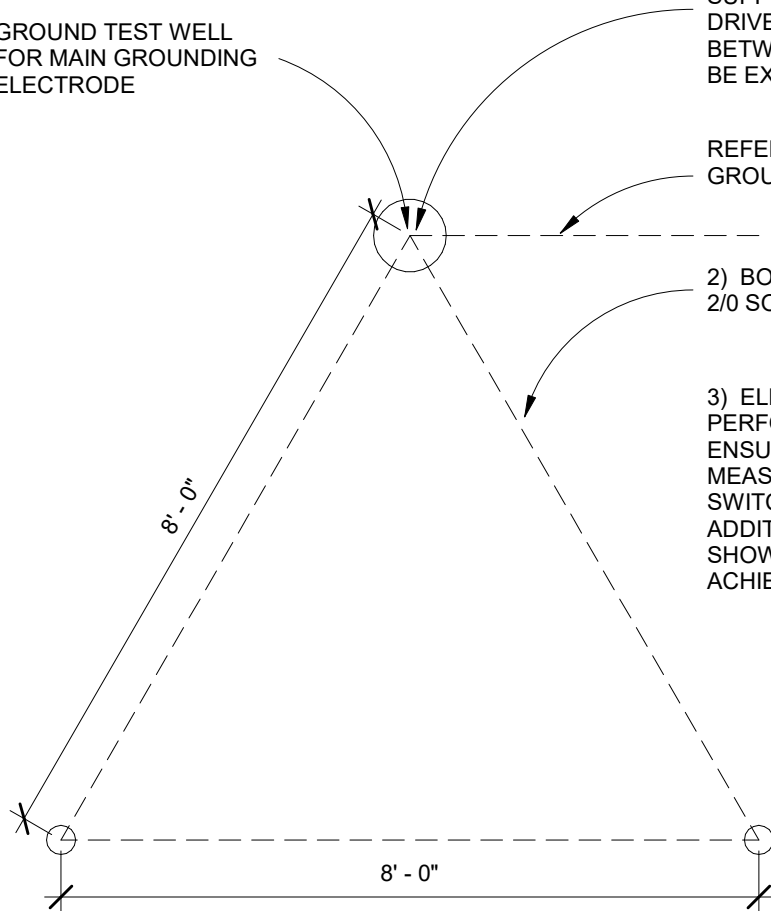


GROUND ROD INSTALLATION

JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:
8 OF 14

GROUND TEST WELL
FOR MAIN GROUNDING
ELECTRODE



1) ALL THREE GROUND RODS SHALL BE 3/4" X 10' COPPER CLAD STEEL. SUPPLEMENTAL GROUND RODS SHALL BE DRIVEN 12" BELOW GRADE. ALL BONDS BETWEEN RODS AND CONDUCTORS SHALL BE EXOTHERMICALLY WELDED.

REFER TO ONE LINE DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE

2) BONDING CONDUCTORS SHALL BE BARE 2/0 SOFT DRAWN COPPER

3) ELECTRICAL CONTRACTOR SHALL PERFORM A FALL OF POTENTIAL TEST TO ENSURE RESISTANCE TO GROUND AS MEASURED FROM THE NEUTRAL IN THE SWITCHBOARD IS 5 Ω OR LESS. ADD ADDITIONAL RODS ON THE SPACING SHOWN TILL THE DESIRED RESISTANCE IS ACHIEVED.

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GROUNDING TRIAD

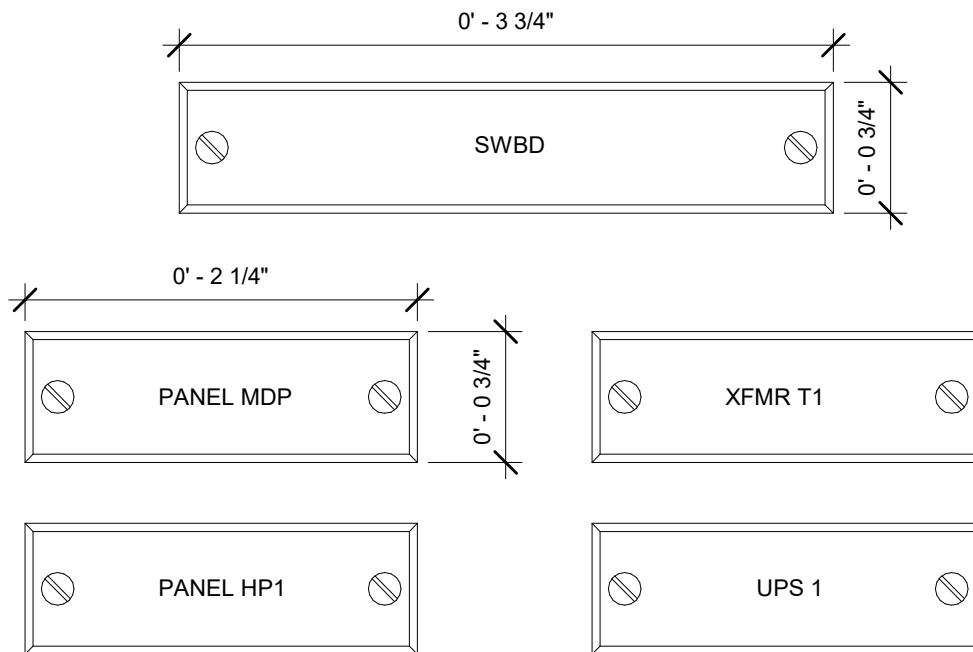
JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:

9 OF 14

NOTES:

1. THE EXTERIOR OF ALL ELECTRICAL EQUIPMENT SHALL BE PERMANENTLY LABELED. THE SAMPLES BELOW ARE FOR REFERENCE ONLY.
2. HEAVY DUTY PLASTIC LABELS ARE ACCEPTABLE PROVIDED THEY HAVE THE FOLLOWING PROPERTIES: CABINET LABEL SHALL BE THE DIMENSIONS SHOWN. TEXT WILL BE 3/8" TALL. TEXT COLOR ON ALL LABELS WILL BE WHITE AND ENGRAVED ON A BLACK BACKGROUND.
3. ENGRAVE ALUMINUM LABELS ARE ACCEPTABLE PROVIDED THEY HAVE THE FOLLOWING PROPERTIES: CABINET LABEL SHALL BE THE DIMENSIONS SHOWN. TEXT WILL BE 3/8" TALL.
4. LABELS WILL HAVE BEVELED EDGES AND BE PERMANENTLY ATTACHED TO THE PANEL OR CABINET DOOR WITH STAINLESS STEEL HARDWARE OR PERMANENT ADHESIVE. IF STAINLESS STEEL HARDWARE IS USED, THE NEMA RATING OF THE ENCLOSURE SHALL NOT BE COMPROMISED.
5. PERMANENT 3M ADHESIVE OR SIMILAR SHALL BE USED ON ALL NEMA 4 AND NEMA 12 ENCLOSURES FOR LABEL ATTACHMENT.



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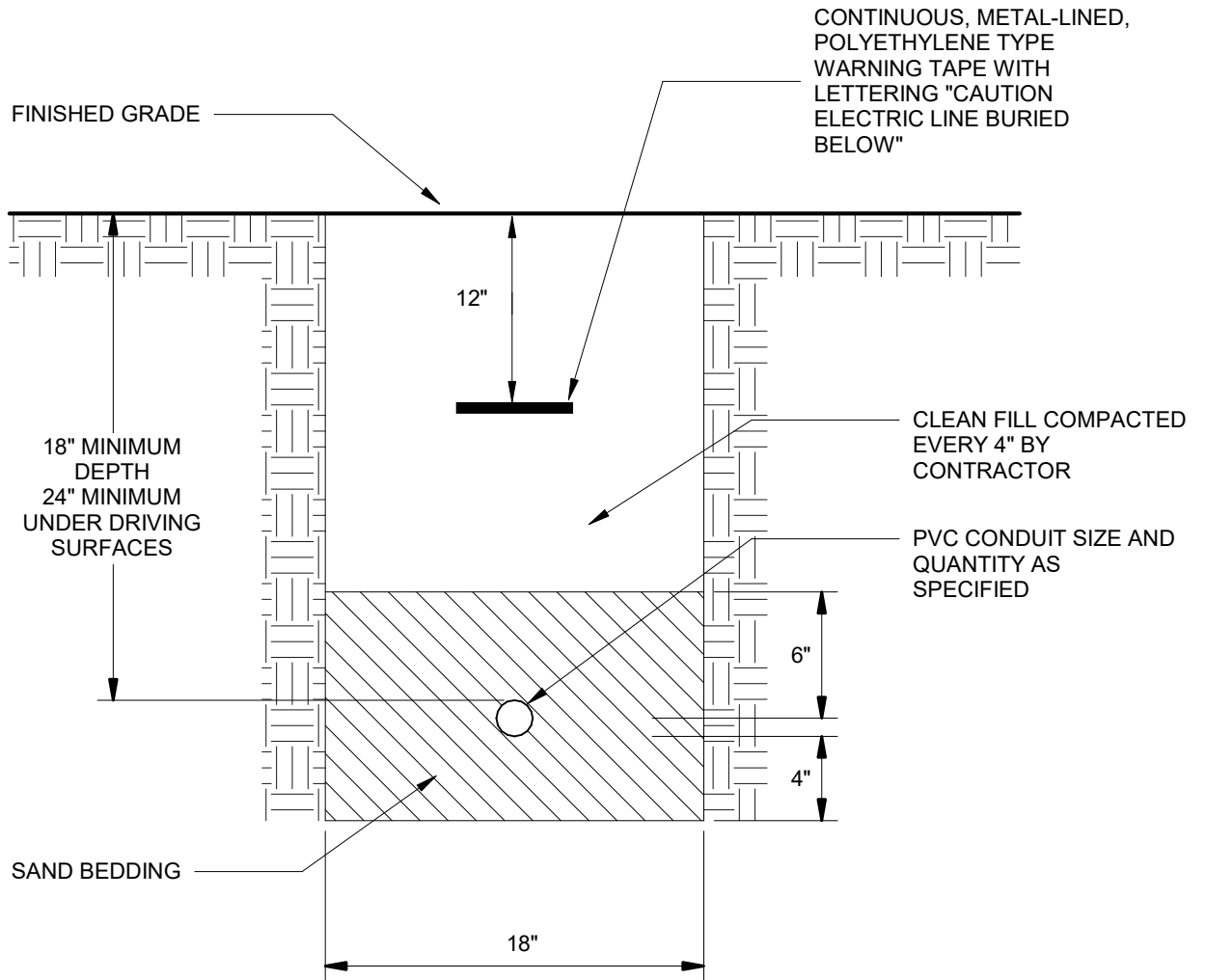


**PANEL LABELING
REQUIREMENTS**

JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:

10 OF 14



BELOW 480V

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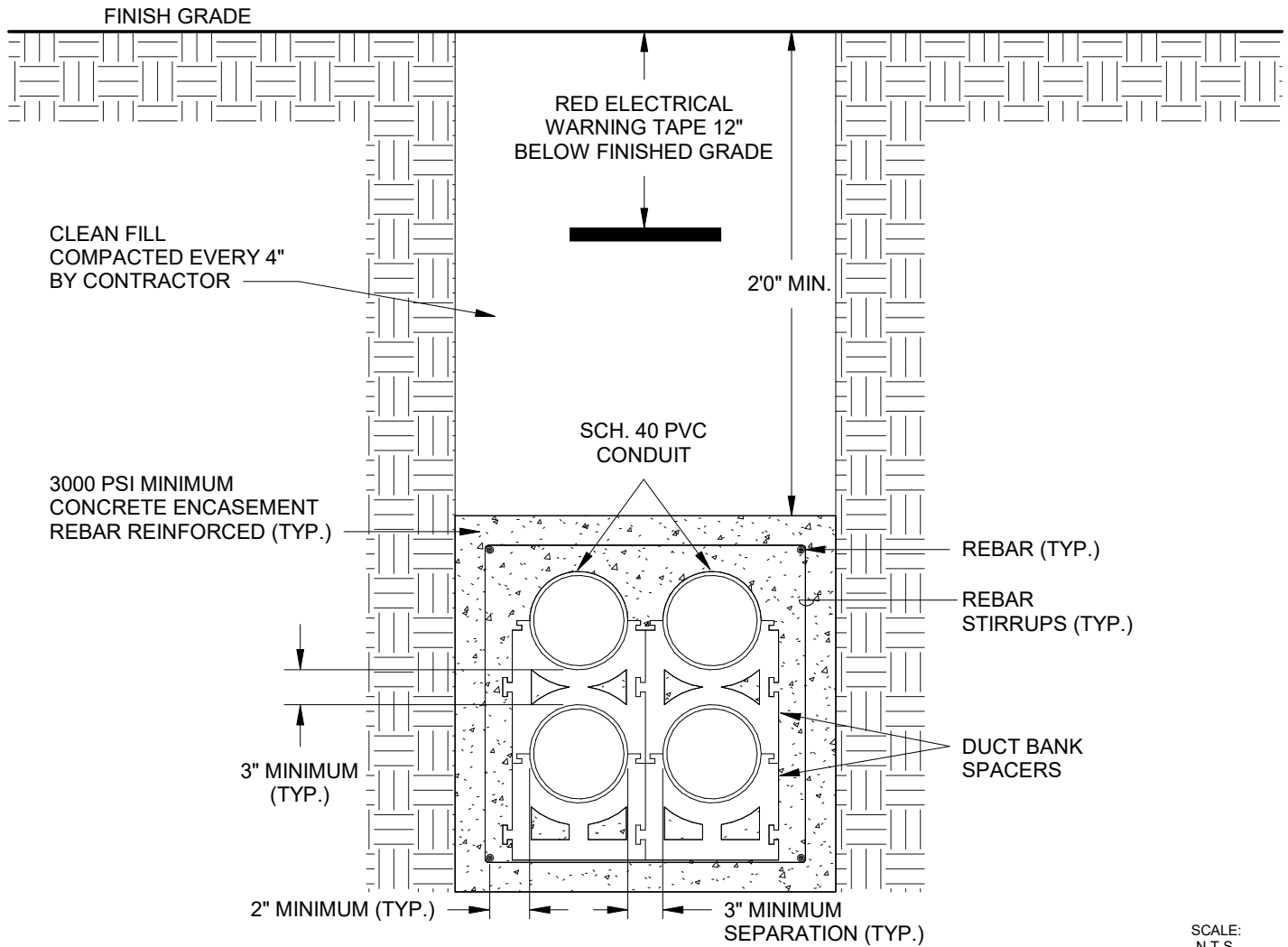


**UNDERGROUND
CONDUIT DETAIL**

JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:

11 OF 14

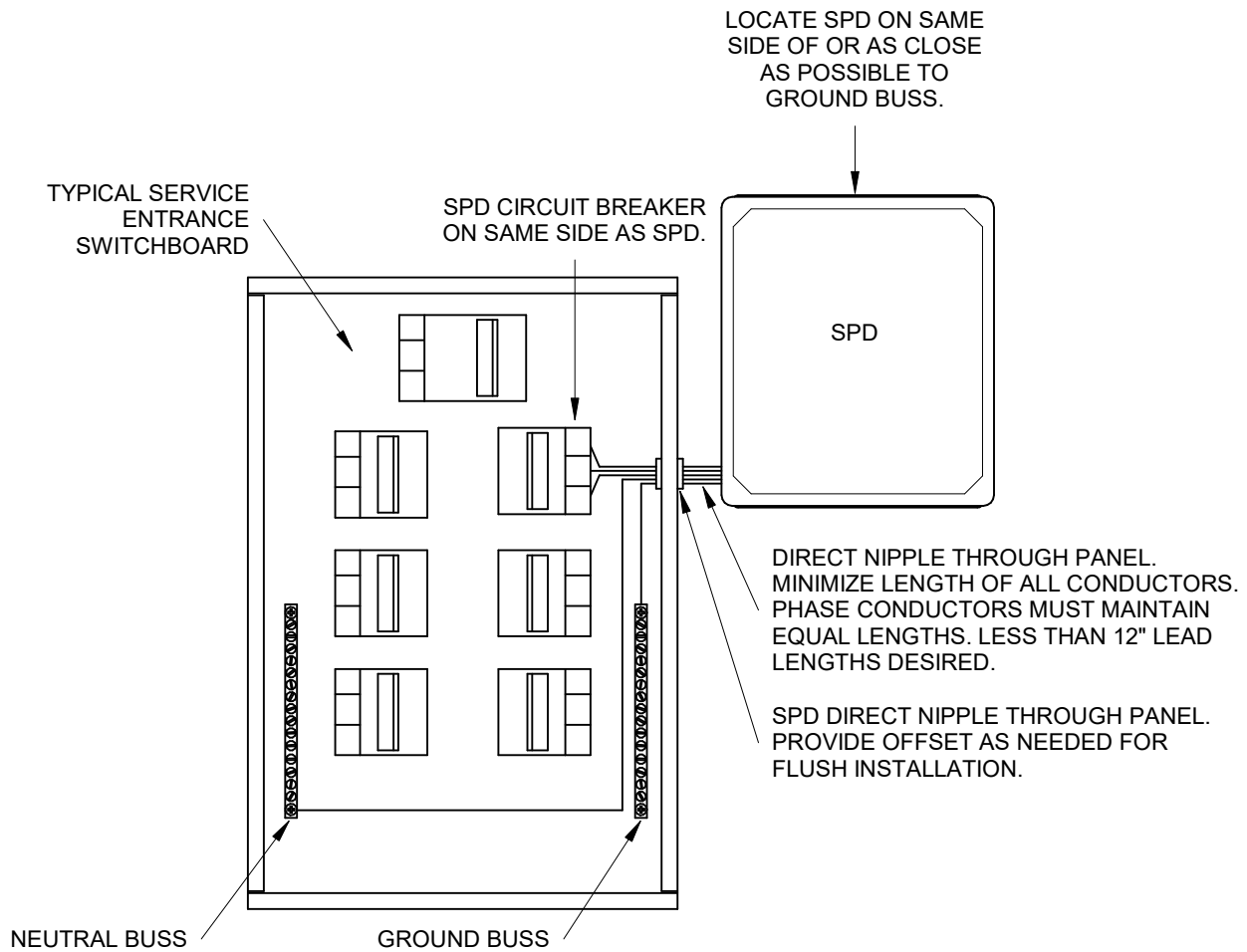


DUCT BANK DETAIL

JOB: 2521CLWSC.001
 DATE: 24 JUNE 2021
 DESIGN: KC

SHEET:

12 OF 14



SCALE:
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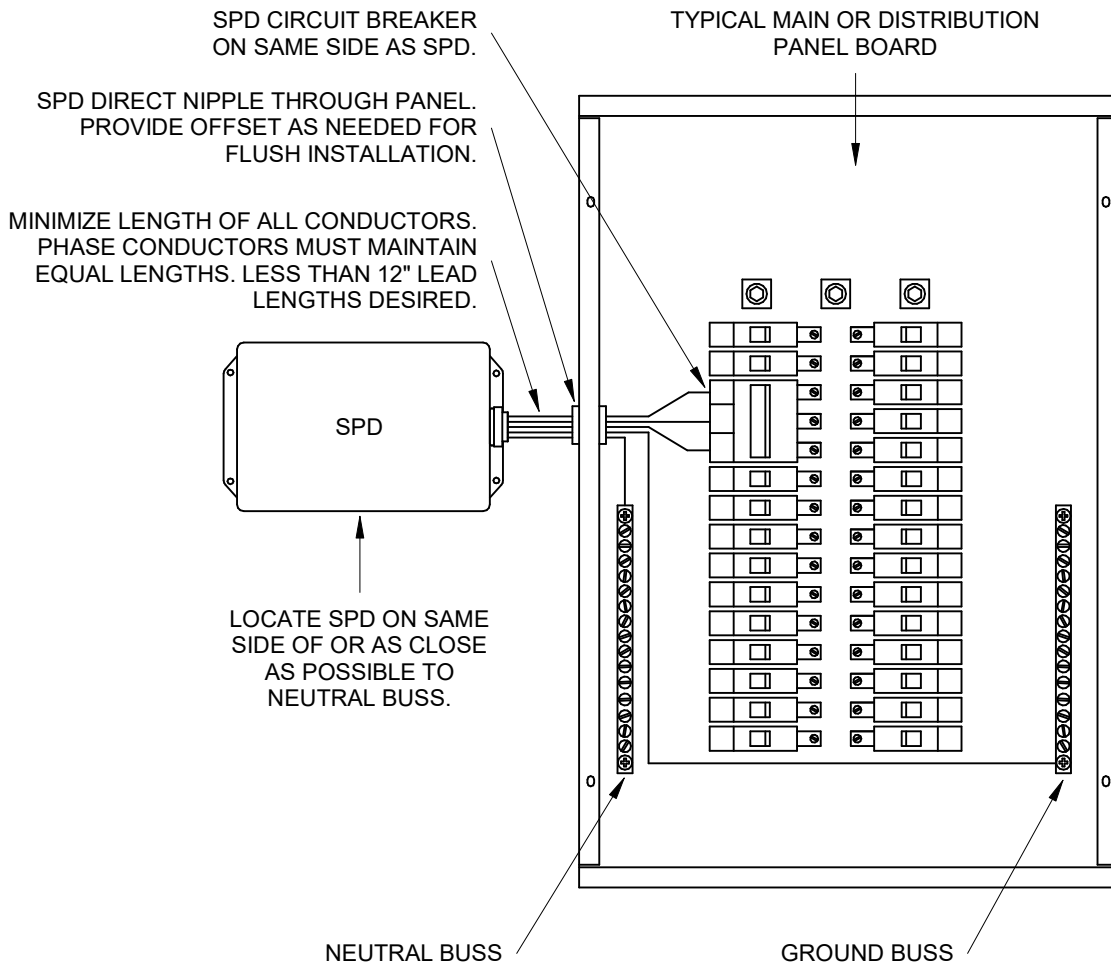


SERVICE ENTRANCE SPD

JOB: 2521CLWSC.001
DATE: 24 JUNE 2021
DESIGN: KC

SHEET:

13 OF 14



SCALE:
N.T.S.



BRANCH PANEL SPD

JOB: 2521CLWSC.001
 DATE: 24 JUNE 2021
 DESIGN: KC

SHEET:

14 OF 14