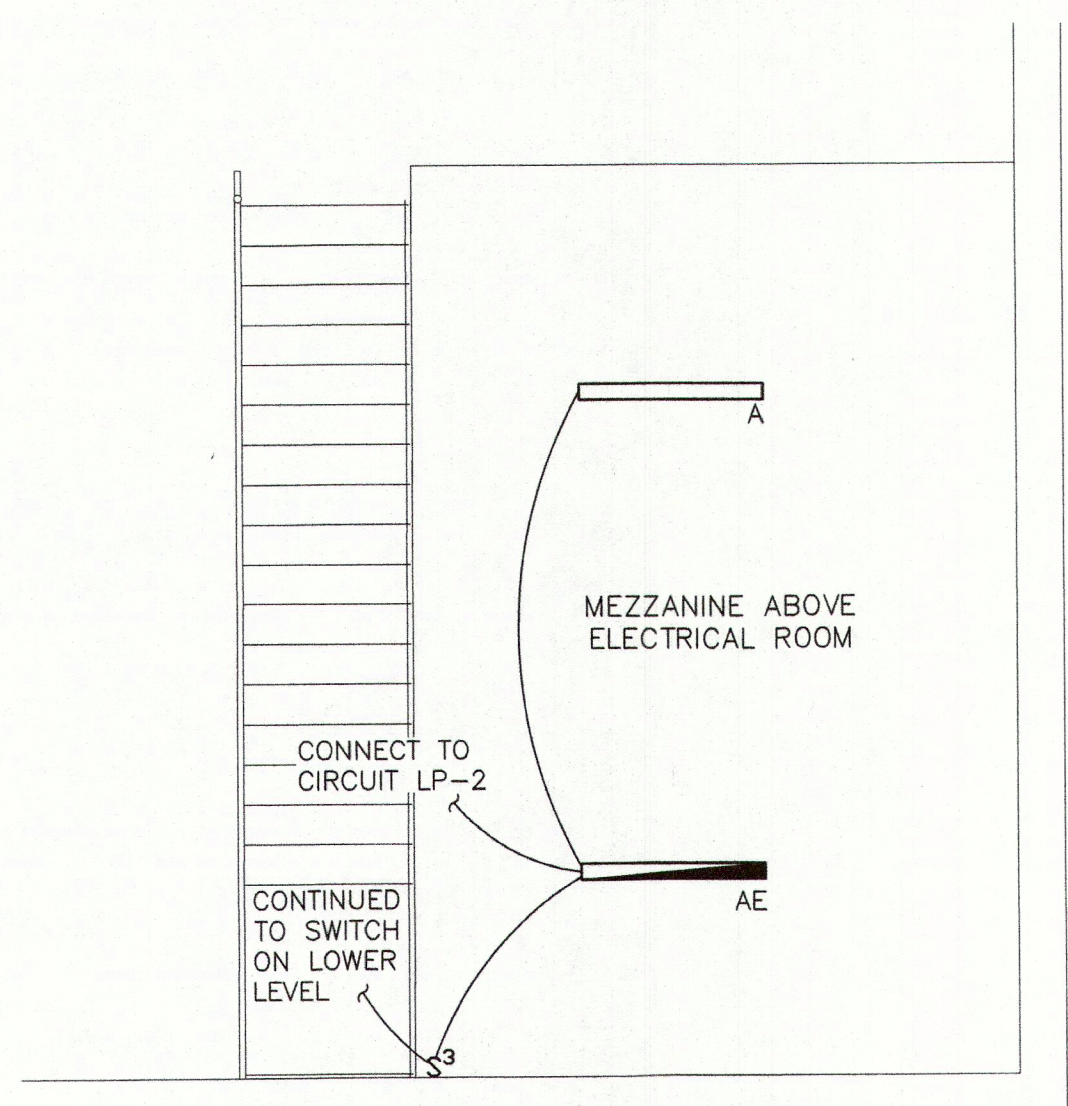


1 ELECTRICAL LIGHTING FLOOR PLAN
SCALE: 1/4"=1'-0"



2 ELECTRICAL LIGHTING MEZZANINE PLAN
SCALE: 1/4"=1'-0"

NOTES:

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2. THIS DRAWING IS DIAGRAMMATIC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING SITE CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION, THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH THE MOST RECENTLY ADOPTED NATIONAL ELECTRICAL CODE APPROVED BY THE AUTHORITY HAVING JURISDICTION AT NO ADDITIONAL COST.
3. ALL PENDENT LIGHT FIXTURES SHALL BE MOUNTED AT 14'-0" A.F.F. OR LESS.

REMINGTON & VERNICK ENGINEERS
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Certification of Authorization: 24 GA 28003300
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DATE: _____

DENNIS K. YODER
NJ PROFESSIONAL ENGINEER LIC. No. 31866

DATE: 09/04/2024

KAVAN R. SMITH
NJ PROFESSIONAL ENGINEER LIC. No. 56794

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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ELECTRICAL LIGHTING FLOOR PLAN

MERCHANTVILLE PENNSAUKEN WATER COMMISSION

BROWNING ROAD

WATER TREATMENT PLANT IMPROVEMENTS

PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

| DRAWN BY: | DESIGN BY: | CHECKED BY: | SCALE: |
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| 3/24 | E-2.1 |
| Job No. 0424M061 | |



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ELECTRICAL POWER FLOOR PLAN

MERCHANTVILLE PENNSAUKEN WATER COMMISSION

BROWNING ROAD

WATER TREATMENT PLANT IMPROVEMENTS

PENNSAUKEN TOWNSHIP

CAMDEN COUNTY

NEW JERSEY

| DRAWN BY: | DESIGN BY: | CHECKED BY: | SCALE: |
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| DN | KM | | AS NOTED |
| DATE: | | | SHEET No.: |
| 3/24 | | | E-3.1 |
| JOB No.: | | | |
| 0424M081 | | | |

3 POWER MEZZANINE PLAN
(ABOVE CHEMICAL ROOM)
SCALE: 1/4"=1'-0"

3

1 ELECTRICAL POWER FLOOR PLAN
SCALE: 1/4"=1'-0"

1

2 ELECTRICAL POWER MEZZANINE PLAN
SCALE: 1/4"=1'-0"

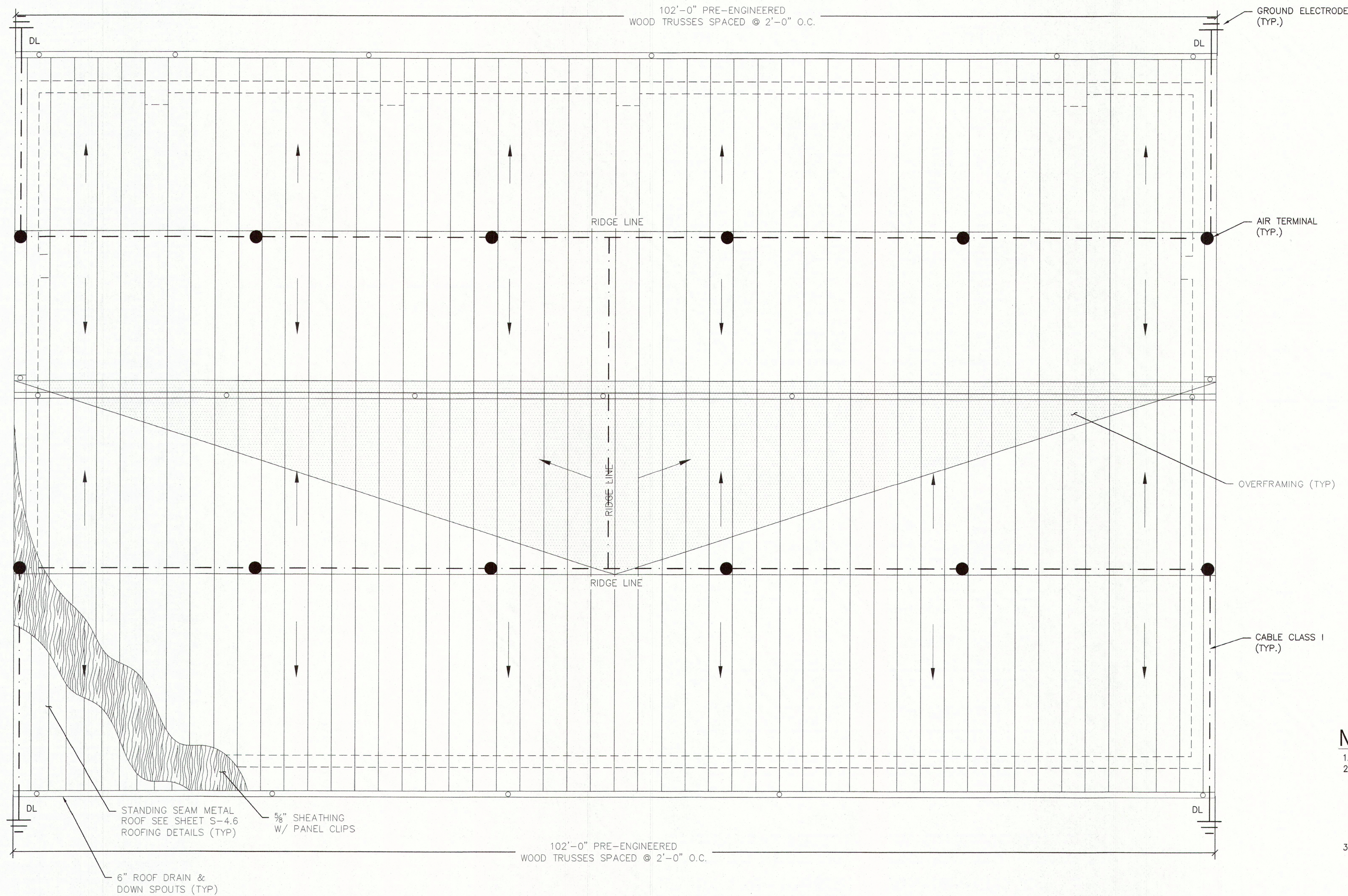
2

NOTES:

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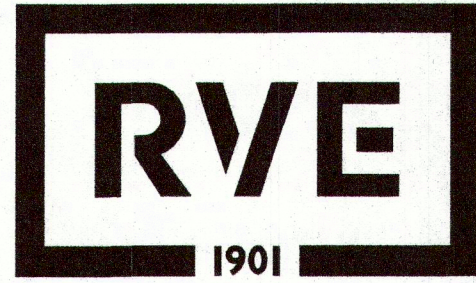


1 ELECTRICAL LIGHTNING ROOF PLAN
SCALE: 3/16"=1'-0"

| LEGEND | |
|--------|-------------------------------------|
| ● | AIR TERMINAL |
| --- | CABLE, CLASS I |
| ▲ | BOND |
| DL | DOWN LEAD CONDUCTOR, ROOF TO GROUND |
| ⏏ | GROUND ELECTRODE |

NOTES:

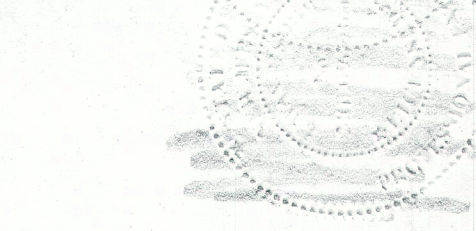
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- ALL MATERIALS AND INSTALLATION WILL CONFORM TO THE MOST RECENT CODE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION 780, LIGHTNING PROTECTION INSTITUTE 175, AND UNDERWRITERS LABORATORIES 96 AND 96A, WHOSE INSPECTION WILL BE PERFORMED AT THE COMPLETION OF THE INSTALLATION AND WHOSE CERTIFICATE WILL BE ISSUED UPON FULL PAYMENT OF THE CONTRACT.
- FINAL DESIGN/LAYOUT TO BE FIELD COORDINATED AT THE TIME OF INSTALLATION IN ORDER TO ENSURE THE LIGHTNING PROTECTION SYSTEM (LPS) IS IN COMPLIANCE WITH THE LPS STANDARDS LISTED ABOVE.
- COPPER MATERIALS WILL BE USED FOR CONTACT WITH COPPER SURFACES, THE EARTH, ALKALINE-BASE PAINT, CONCRETE OR MASONRY, OR EXCESSIVE MOISTURE SUCH AS FLAT ROOFS; LEAD OR TIN COATED COPPER WILL BE USED WITHIN 2 FEET OF THE TOP OF A CHIMNEY; AND ALUMINUM MATERIALS WILL BE USED ON ALUMINUM, GALVANIZED STEEL, OR PAINTED METAL SURFACES; IN ACCORDANCE WITH NFPA 780 4.2, UL 96A 7, AND LPI 175 35-40.
- SOME METAL PARTS OF THE STRUCTURE THAT HAVE A METAL THICKNESS OF 1/8" OR GREATER MAY BE USED AS STRIKE TERMINATION DEVICES AND CONDUCTORS IN ACCORDANCE WITH NFPA 780 4.6.1.4, UL 96A 8.8.2, AND LPI 175 65.
- CHEMILINK M-1, DURALINK, OR DURALINK ADHESIVE WILL BE USED FOR SECURING TO METAL SURFACES. AN APPROVED ADHESIVE WILL BE USED ON MEMBRANE ROOF AREAS TO SECURE THE CABLES AND BASES IN POSITION. NO MECHANICAL FASTENERS WILL BE DRIVEN INTO MEMBRANE ROOFING.
- CABLE FASTENERS WILL BE SPACED NO MORE THAN 3' O.C.
- DUE TO SAFETY CONCERNS, EXOTHERMIC WELDING ABOVE GRADE IS NOT PERMITTED. IN LIEU OF EXOTHERMIC WELD, U.L. LISTED BOLT PRESSURE FITTINGS WILL BE USED IN ACCORDANCE WITH NFPA 780 4.12.3, UL 96A 12.13-14, AND LPI 175 4.3.
- DOWN CONDUCTORS WILL BE ROUTED ON EXTERIOR OF EXISTING BUILDING (NOT CONCEALED INSIDE EXTERIOR WALLS).
- EACH DOWN CONDUCTOR LOCATED IN A RUNWAY, DRIVEWAY, SCHOOL PLAYGROUND, CATTLE YARD, PUBLIC WALK OR SIMILAR LOCATION WILL BE PROTECTED FROM MECHANICAL DAMAGE OR DISPLACEMENT IN ACCORDANCE WITH NFPA 780 4.9.11, UL 96A 9.3.3, AND LPI 175 116.
- UNDERGROUND METALLIC PIPING SYSTEMS WILL BE BONDED AS REQUIRED BY NFPA 780 4.14.4, UL 96A 10.4.1, AND LPI 148.
- METAL BODIES WITHIN 6 FEET OF LPS CONDUCTORS WILL BE BONDED AS REQUIRED BY NFPA 780 4.16, UL 96A 11, AND LPI 175 151.
- INSTALLATION SHALL BE PERFORMED UNDER THE ONSITE SUPERVISION OF A LPI CERTIFIED MASTER INSTALLER.
- INSTALLATION SHALL BE PERFORMED BY THE WARREN LIGHTNING ROD COMPANY 856-854-7000 OR APPROVED EQUAL.



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**ELECTRICAL
LIGHTNING ROOF PLAN**

MERCHANTVILLE PENNSAUKEN WATER COMMISSION
BROWNING ROAD
WATER TREATMENT PLANT IMPROVEMENTS
CAMDEN COUNTY NEW JERSEY
PENNSAUKEN TOWNSHIP

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