CONTRACT NO. RTE. SECTION COUNTY 2320 //3 X -N 133 100 will STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

APPLICATION

UTILITY POLE, PRIMARY CUT-OUTS

TRANSFORMER(S) (AS APPLICABLE)

THE CONTRACTOR SHALL COORDINATE

BY THE ELECTRIC UTILITY.

AS REQUIRED.

PROVIDE ADEQUATE SLACK FOR DRIP LOOP AND CONNECTION

NON-METALLIC "U" GUARD.

FURNISH FOR INSTALLATION

BY ELECTRIC UTILITY, LENGTH

SEALING BUSHING, SIZE AND CONDUCTOR CONFIGURATION

LOCKING COLLAR (SEE DETAIL)

CONDUIT. ZINC PLATED STEEL O.Z. GEDNEY TYPE TH-1800

ATTACHED WITH LAG SCREWS.

-2-HOLE STRAP FOR RIGID

OR APPROVED EQUAL.

RIGID STEEL CONDUIT RISER

LENGTH AS REQUIRED

SEE NOTE 3.

CUSTOMER SERVICE RISER GROUND ELECTRODE

(IN UNDISTURBED SOIL) SEE NOTE 5.

15.875mm X 3.048M ( 5/8 "X10") COPPERCLAD GROUND ROD

(CONTINUOUS 3 m (10') LENGTH).

- RIGID GALVANIZED THREADED COUPLING.

PVC COATED RIGID CONDUIT ELBOW

THREADED TRANSITION COUPLING, AS APPLICABLE (SEE NOTE 6)

GROUNDING ELECTRODE CONDUCTOR, BARE COPPER, #1/O AWG. MINIMUM

609.6mm (24") RADIUS (MIN.)

(TYPICAL)

TO MATCH SERVICE. OZ GEDNEY TYPE CSBG

-HEAVY DUTY GROUND CLAMP, UNIVERSAL U-CLAMP

TYPE, BY O.Z. GEDNEY, T&B OR APPROVED EQUAL.

-PVC-COATED RIGID CONDUIT NIPPLE OR CONDUIT EXTENSION,

-GROUND ROD SHALL BE INSTALLED NOT LESS THAN 609 mm (24") FROM POLE UNLESS APPROVED BY THE ENGINEER

762.0mm MIN - 914.0mm MAX

-HORIZONTIAL ELECTRIC SERVICE CONDUCTOR RACEWAY (SEE NOTE 6)

EXTENSION TO SERVICE

EQUIPMENT

(30" MIN. - 36" MAX.)

TO TOP OF CONDUIT

OR APPROVED EQUAL, COMPLETE WITH

BY THE UTILITY

AS REQUIRED

CONDUIT/CONDUCTOR

0 0 0

UTILITY GROUND CONNECTION,

(AS APPLICABLE), BY UTILITY

AS APPLICABLE, (BY UTILITY) -

APPROXIMATELY

APPROX. 150 mm (6"

3.2 m (10' 6")

UTILITY GROUND,

GRADE-

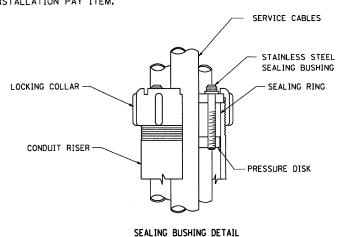
EXOTHERMIC WELD CONNECTION-

UTILITY GROUNDING ELECTRODE—
(AS APPLICABLE), BY UTILITY

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

## NOTES

- 1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- 2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- 3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- 4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- 5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- 6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE. THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- 7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



BE-220 REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT BE - 220 SCALE: NONE DRAWN BY DATE: 4/25/2006 CHECKED BY MEA

ASCERTAIN AND

ASSURE CLEARANCE FROM UTILITY

SECONDARY SPACE,

AS APPLICABLE.

REVISION DATE: 03/03/06