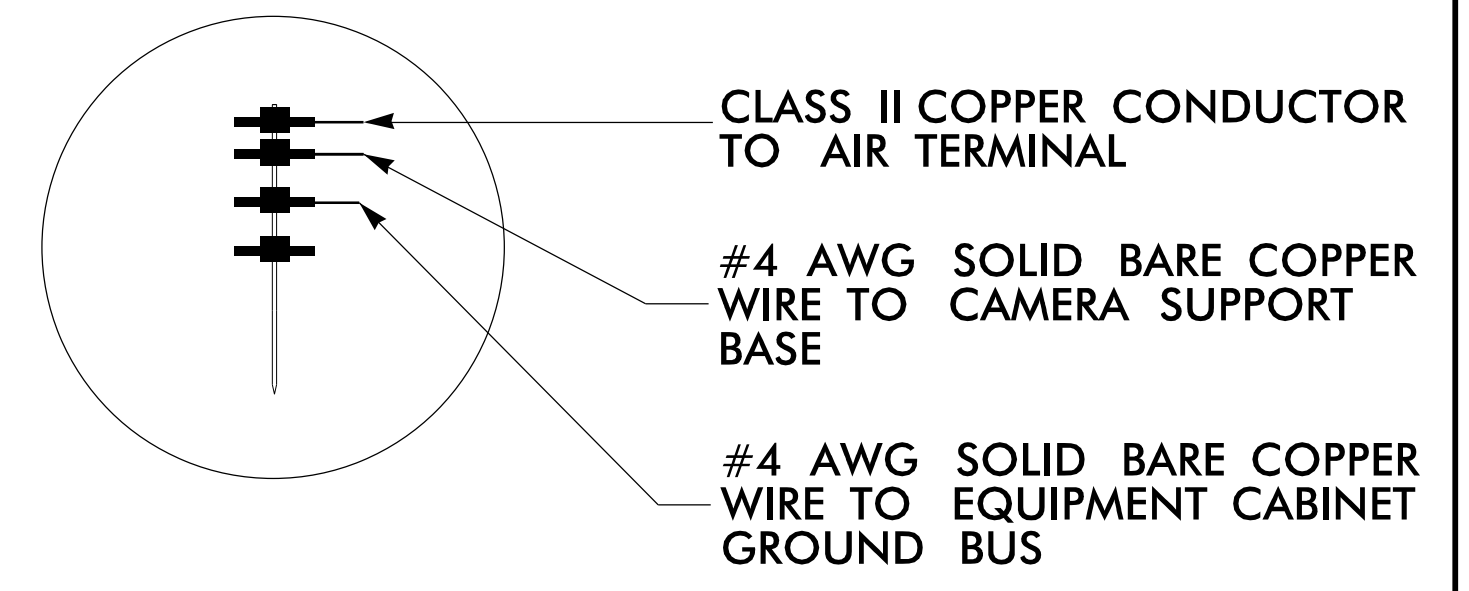
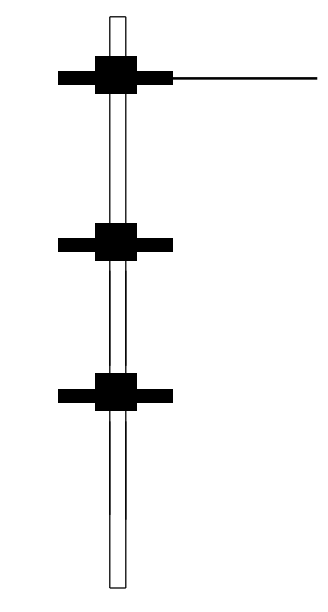


INSET 'A'



ALTERNATE GROUNDING METHOD

IF SPACE IS NOT AVAILABLE TO DRIVE MULTIPLE RODS, DRIVE SECTIONAL GROUND RODS A MINIMUM OF 30 FEET.

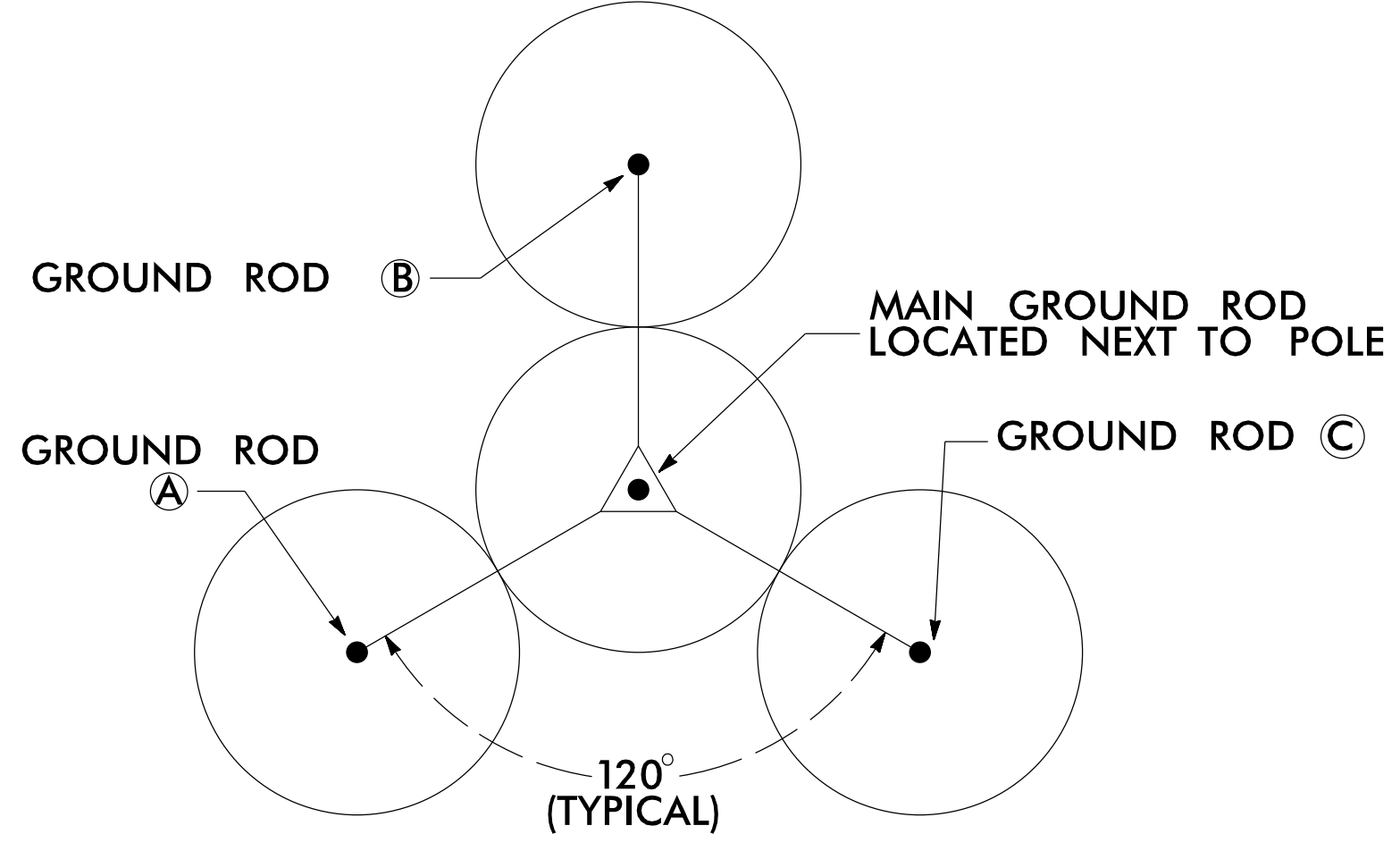


JOIN SECTIONAL GROUND RODS BY EXOTHERMIC WELDING CONNECTION

NOTES

- BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE-LAY BARE COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD. MAINTAIN MAXIMUM HORIZONTAL SEPARATION BETWEEN COPPER CONDUCTOR AND RISER.
- EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
- THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30' SECTIONAL GROUND ROD FOR INSTANCES WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 - RADIAL GROUND RODS.
- INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12".
- REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUS AND NEUTRAL BUS.

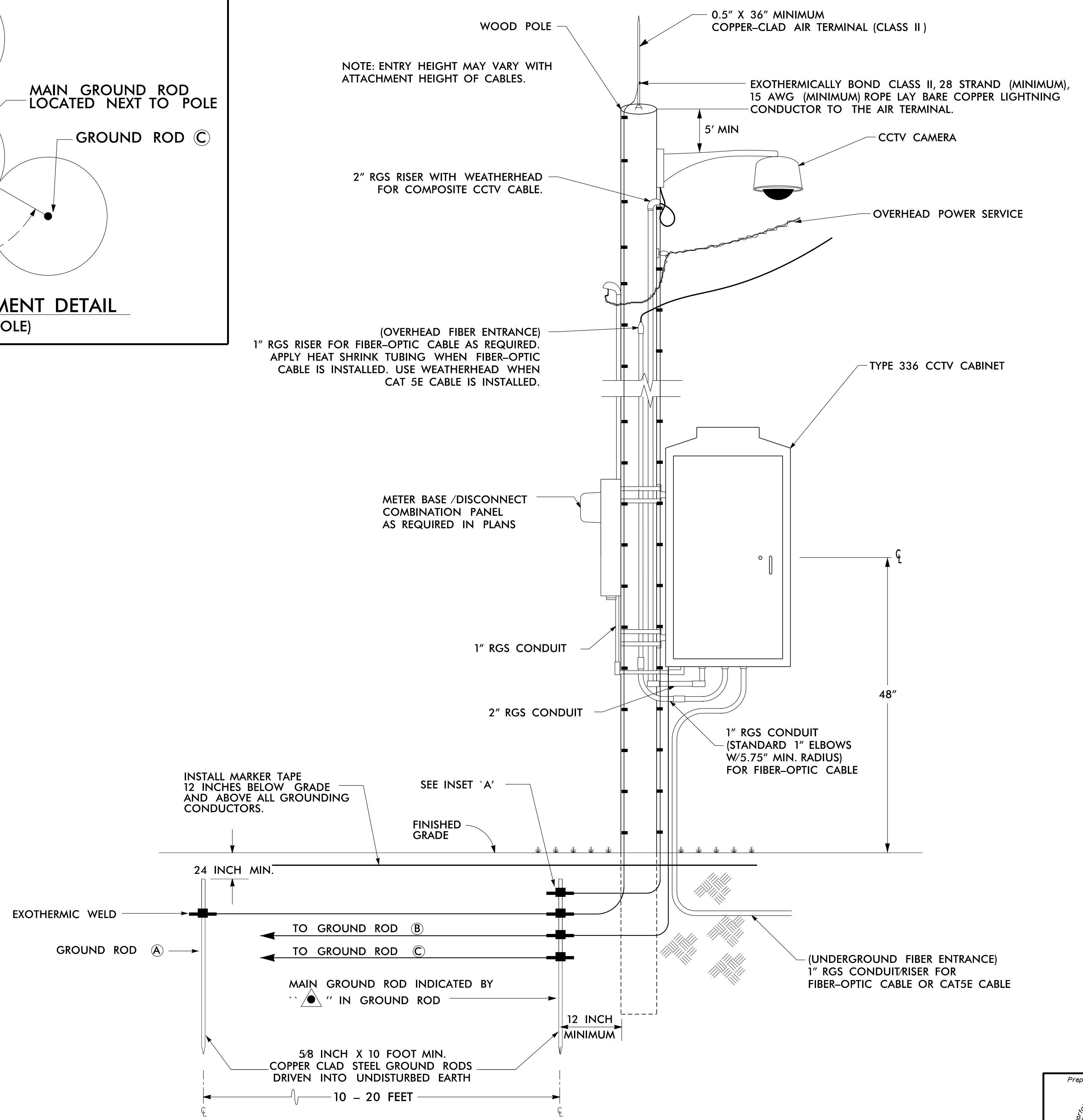
10 FOOT RADIUS EACH "SPHERE OF INFLUENCE"



GROUND ROD PLACEMENT DETAIL (TYPICAL EACH POLE)

NOTE: ENTRY HEIGHT MAY VARY WITH ATTACHMENT HEIGHT OF CABLES.

(OVERHEAD FIBER ENTRANCE)  
1" RGS RISER FOR FIBER-OPTIC CABLE AS REQUIRED. APPLY HEAT SHRINK TUBING WHEN FIBER-OPTIC CABLE IS INSTALLED. USE WEATHERHEAD WHEN CAT 5E CABLE IS INSTALLED.



INSTALL MARKER TAPE 12 INCHES BELOW GRADE AND ABOVE ALL GROUNDING CONDUCTORS.

SEE INSET 'A'

FINISHED GRADE

24 INCH MIN.

EXOTHERMIC WELD

GROUND ROD A

TO GROUND ROD B  
TO GROUND ROD C

MAIN GROUND ROD INDICATED BY "▲" IN GROUND ROD

12 INCH MINIMUM

5/8 INCH X 10 FOOT MIN. COPPER CLAD STEEL GROUND RODS DRIVEN INTO UNDISTURBED EARTH

10 - 20 FEET

	Prepared for the Offices of: <b>Kerr Avenue CCTV Camera Installation, Wood Poles O/H Elec. Service, O/H Comms. / U/G Comms.</b>		SEAL 019962 ALFRED BADGETT PROFESSIONAL ENGINEER STATE OF NORTH CAROLINA
	Division 03 New Hanover County Wilmington	PLAN DATE: August 2013 PREPARED BY:	
SCALE NONE	REVISIONS	INIT. DATE	Designed by: Alf Badgett DATE: 1/5/2015 SIG. INVENTORY NO.