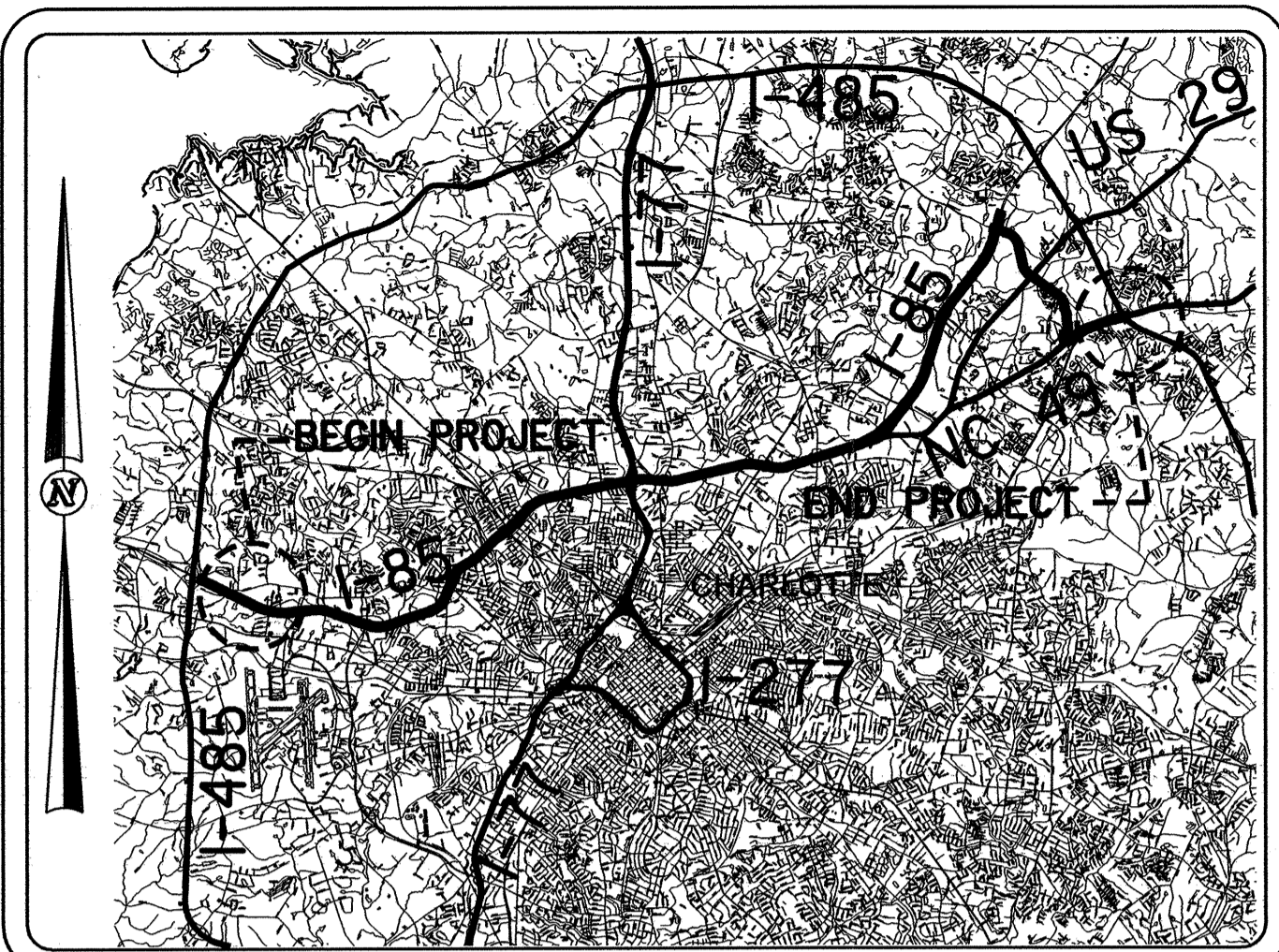


U-4754

PROJECT: C201460



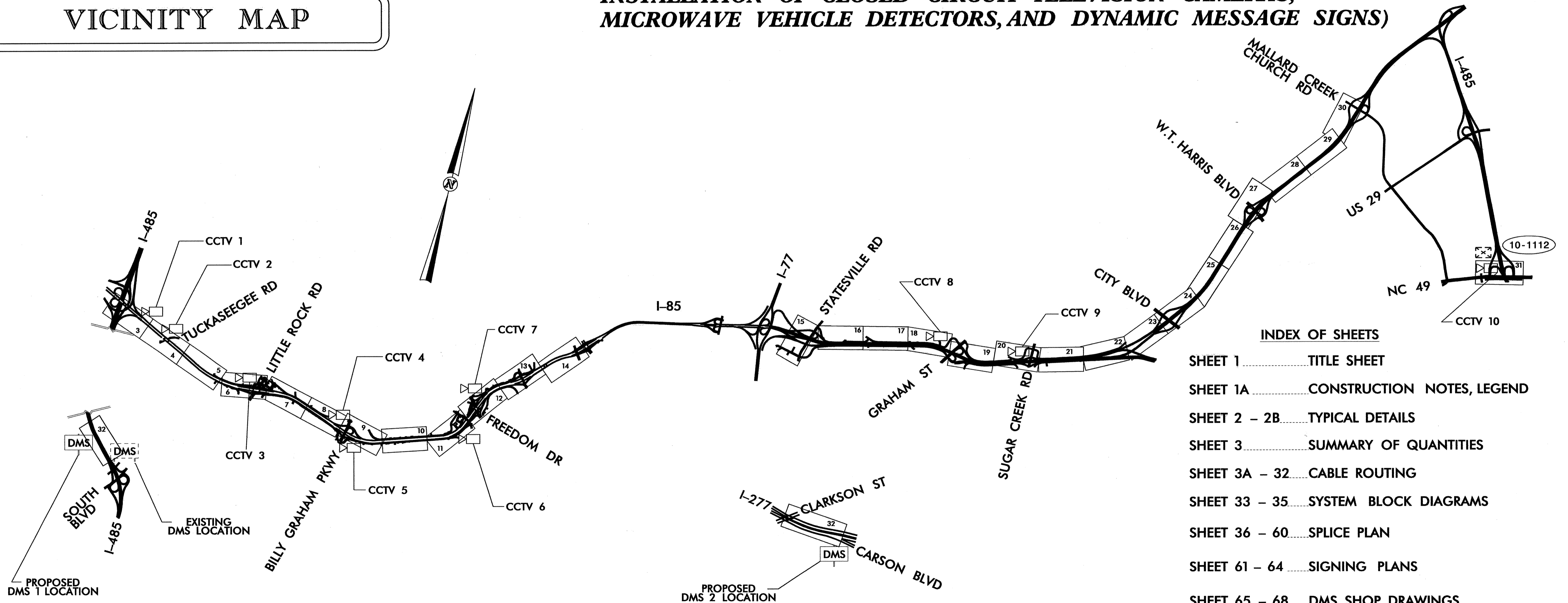
VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG COUNTY

LOCATION: I-85 FROM EAST OF I-485 TO MALLARD CREEK CHURCH ROAD, NC 49 (UNIVERSITY CITY BOULEVARD) AT I-485, I-485 NORTH OF SOUTH BOULEVARD, AND I-277 EAST OF CLARKSON STREET

TYPE OF WORK: FACILITY COMPONENTS (COMMUNICATIONS CABLE AND CONDUIT ROUTING, INSTALLATION OF CLOSED CIRCUIT TELEVISION CAMERAS, MICROWAVE VEHICLE DETECTORS, AND DYNAMIC MESSAGE SIGNS)



INDEX OF SHEETS

SHEET 1	TITLE SHEET
SHEET 1A	CONSTRUCTION NOTES, LEGEND
SHEET 2 - 2B	TYPICAL DETAILS
SHEET 3	SUMMARY OF QUANTITIES
SHEET 3A - 32	CABLE ROUTING
SHEET 33 - 35	SYSTEM BLOCK DIAGRAMS
SHEET 36 - 60	SPLICE PLAN
SHEET 61 - 64	SIGNING PLANS
SHEET 65 - 68	DMS SHOP DRAWINGS
SHEET TCP-1 & TCP-2	TRAFFIC CONTROL PLANS

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS". ROADWAY DESIGN UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1700.02	ELECTRICAL SERVICE OPTIONS
1715.01	UNDERGROUND CONDUIT - TRENCHING
1716.01	JUNCTION BOXES
1720.01	WOOD POLES
1730.01	FIBER OPTIC CABLE - SPARE CABLE STORAGE
1751.02	CONTROLLERS AND CABINETS

LETTING DATE:
MARCH 18, 2008

NCDOT CONTACT:
TRAFFIC ENGINEERING AND SAFETY SYSTEMS BRANCH
G.G. MURR, JR., PE - INTELLIGENT TRANSPORTATION SYSTEMS ENGINEER

2006 STANDARD SPECIFICATIONS

	Prepared in the Offices of: COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS		
	DIVISION 10 MECKLENBURG CO. CHARLOTTE PLAN DATE: DECEMBER 2007 REVIEWED BY: M.A. ASLAMI PREPARED BY: S.C. WARDLE REVIEWED BY: T.G. PARKER	REVISIONS: _____ INIT. DATE _____ SIGNATURE: <i>[Signature]</i> DATE: 12-19-07 CADD FILE NAME: _____	

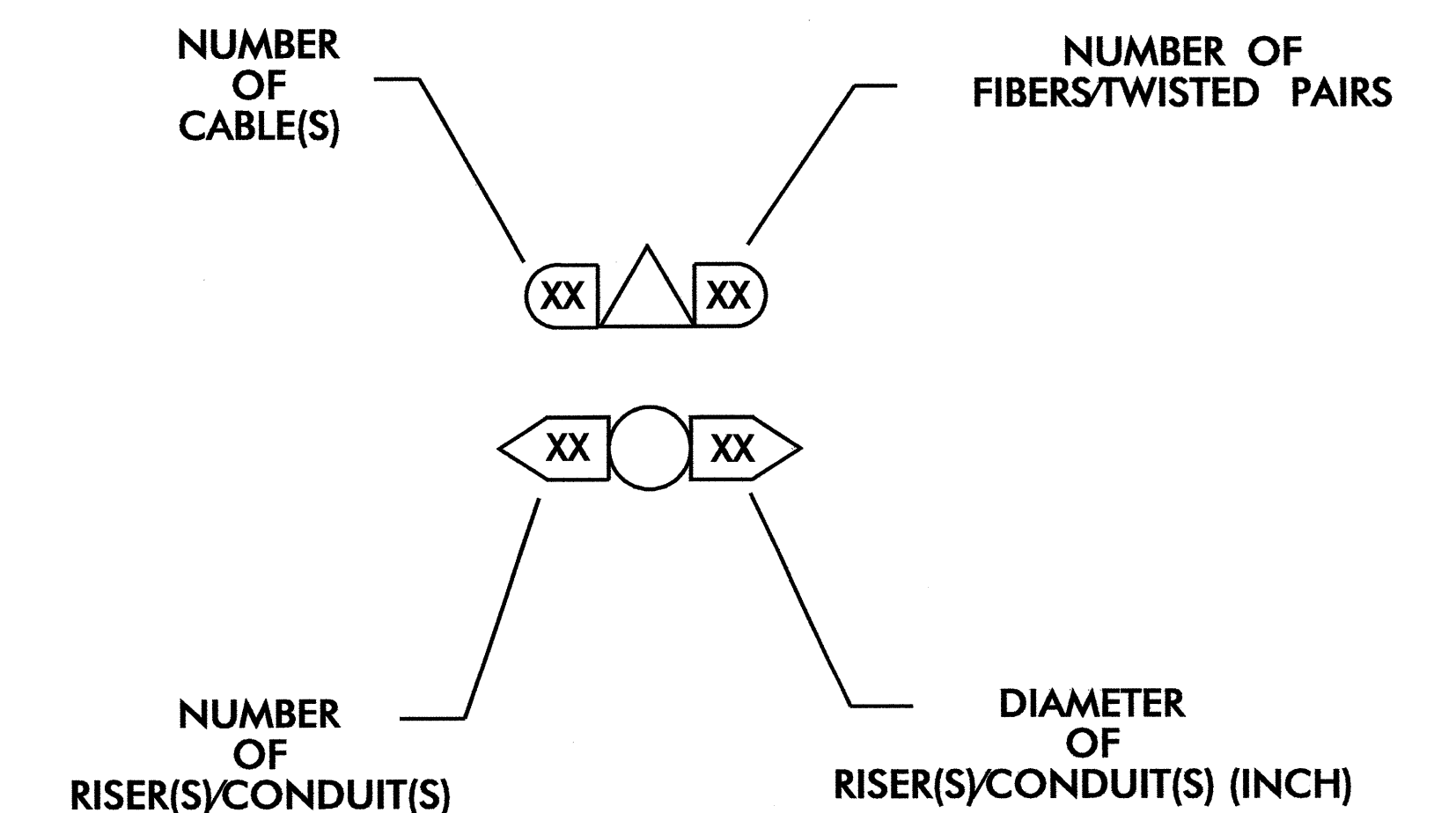
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4754	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
39549.1.1	ITS-NC04(3)	PE	
39549.3.1	ITS-NC04(3)	CONSTRUCTION	

LEGEND

- FO — NEW FIBER OPTIC COMMUNICATIONS CABLE
- TWIST PR — NEW TWISTED PAIR COMMUNICATIONS CABLE
- EXI — EXISTING COMMUNICATIONS CABLE
- REM — EXISTING COMMUNICATIONS CABLE TO BE REMOVED
- — NEW AERIAL GUY ASSEMBLY
- — NEW CONDUIT
- — EXISTING CONDUIT
- DD — NEW DIRECTIONAL DRILLED CONDUIT
- B&J — NEW BORED AND JACKED CONDUIT
- NEW JUNCTION BOX
- EXISTING JUNCTION BOX
- EXISTING WOOD POLE
- NEW WOOD POLE
- ⊙ NEW SPLICE ENCLOSURE
- ⊙ EXISTING SPLICE ENCLOSURE
- ⊙ NEW METAL POLE
- ⊙ EXISTING METAL POLE
- ▶ NEW CCTV CAMERA ASSEMBLY
- ▶ EXISTING CCTV CAMERA ASSEMBLY
- ⊙ DMS EXISTING OVERHEAD DMS STRUCTURE
- ⊙ DMS NEW PEDESTAL MOUNTED DMS STRUCTURE
-))) NEW MVD ASSEMBLY
-))) EXISTING MVD ASSEMBLY
- ∞ NEW CABLE STORAGE RACKS (SNOW SHOES)
- ⊗ NEW CONTROLLER AND CABINET
- ⊗ EXISTING CONTROLLER AND CABINET
- ⊙ S NEW SPLICE CABINET
- ⊙ S EXISTING SPLICE CABINET
- SP SIGNAL POLE
- XX-XXXX SIGNAL INVENTORY NUMBER

CONSTRUCTION NOTE SYMBOLOGY KEY

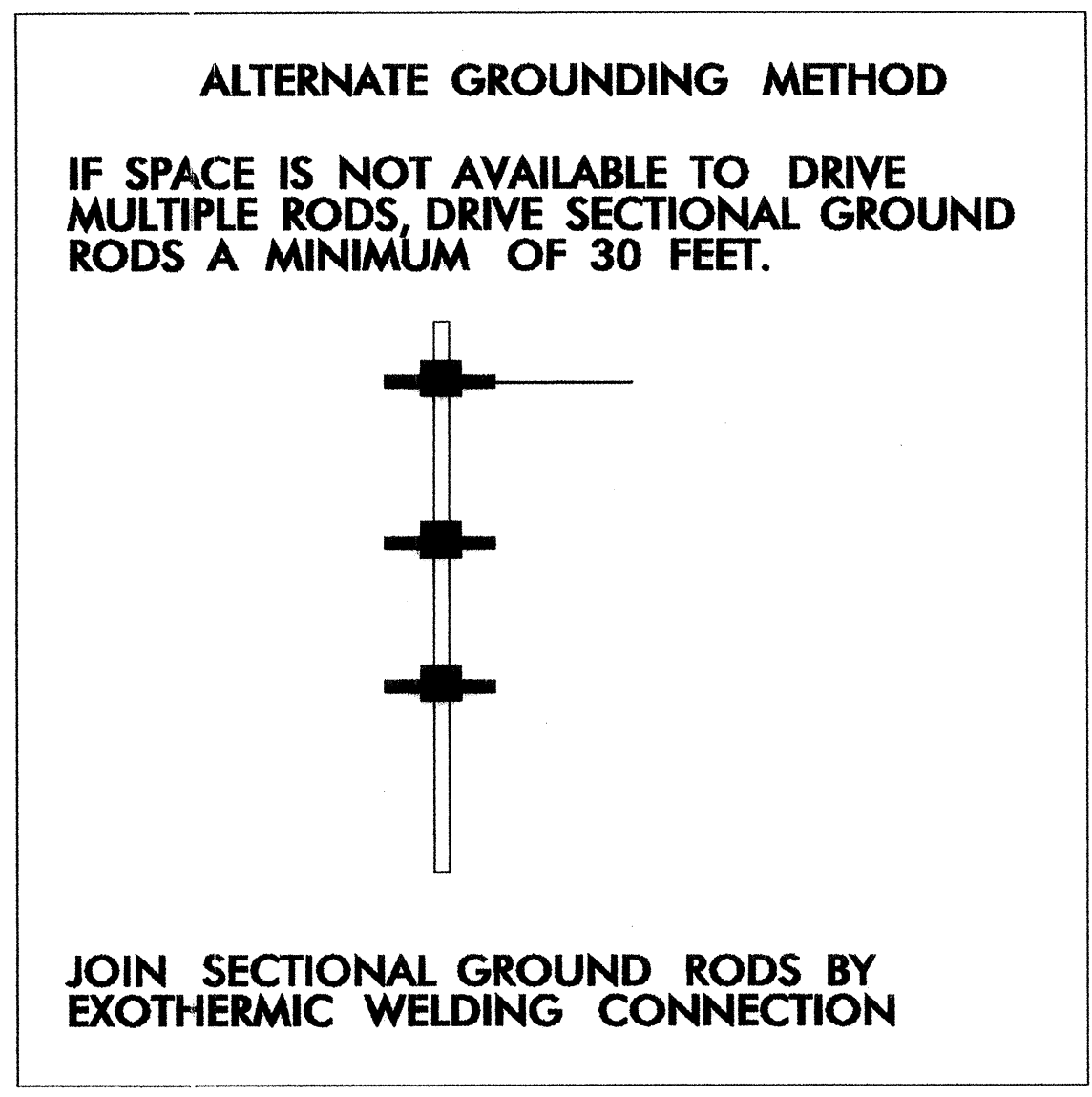
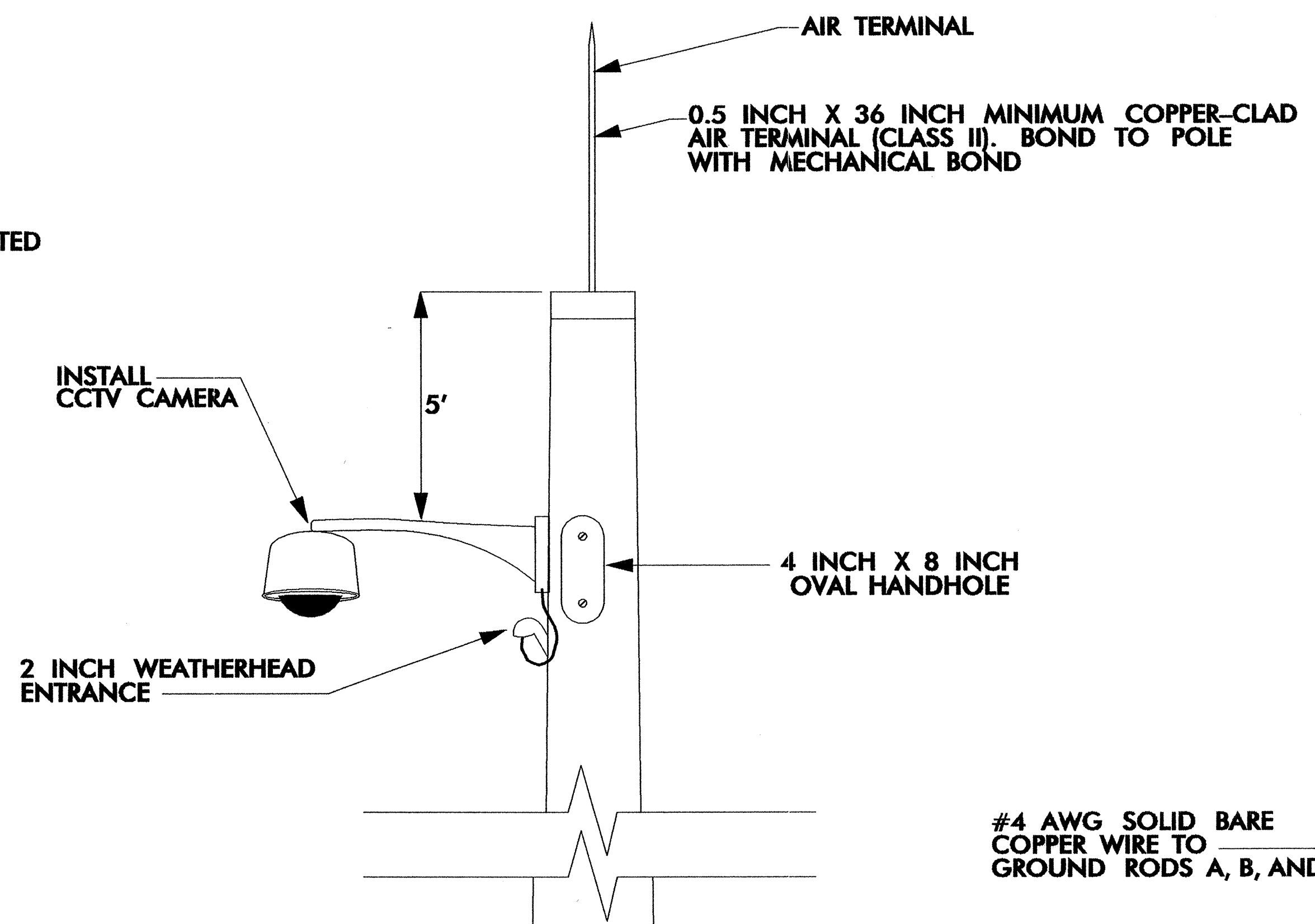
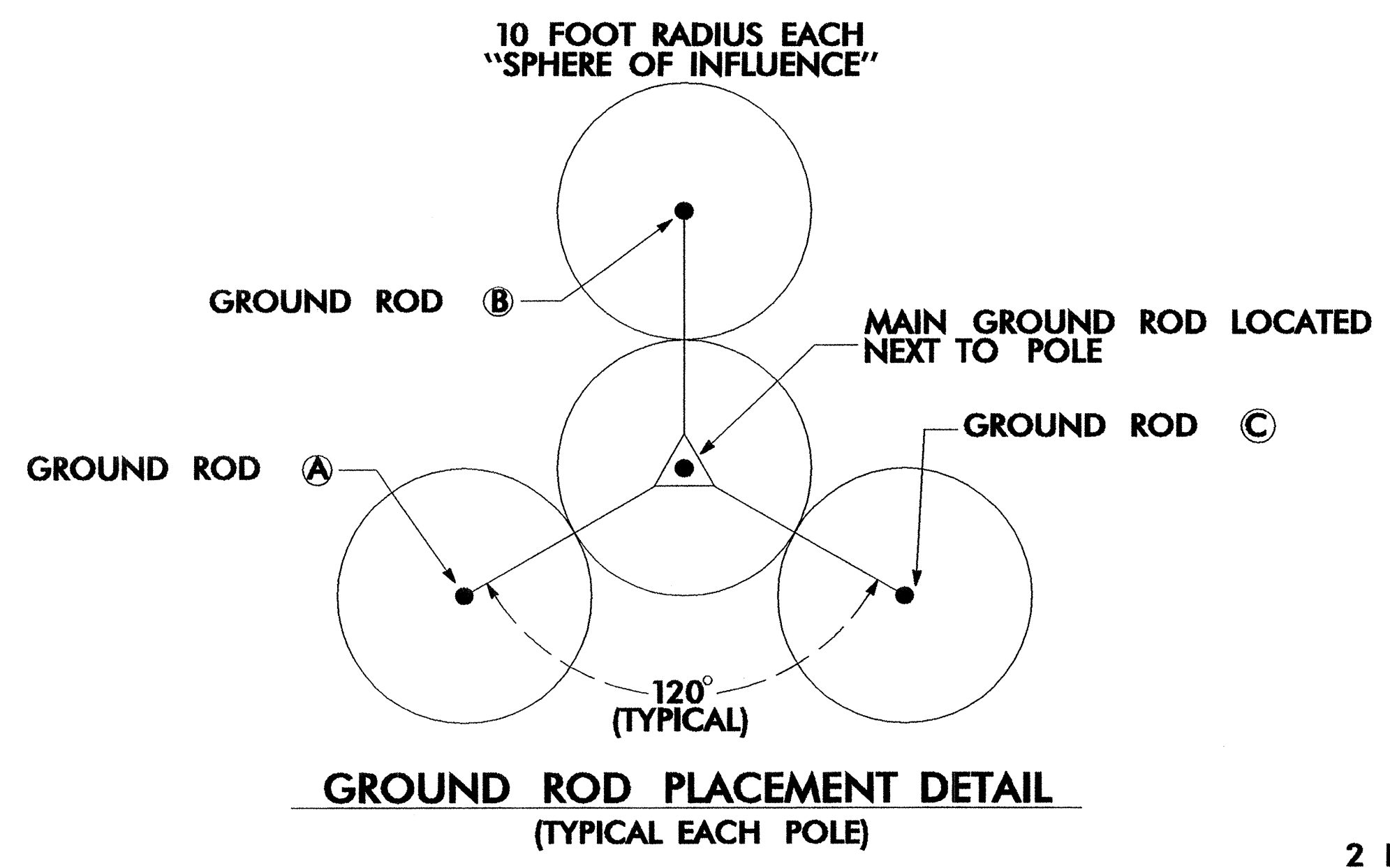
- ⊗ XX INDICATES NUMBER OF CABLES, LOOPS, ETC.
- ⊗ XX INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
- ◁ XX INDICATES NUMBER OF RISER(S)/CONDUIT(S)
- ▷ XX INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)



- 1 INSTALL REA, PE – 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 2 INSTALL REA, PE – 38, (FIGURE – 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 3 INSTALL REA, PE – 39, (UNDERGROUND) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 4 INSTALL SMFO CABLE
- 5 INSTALL MMFO CABLE
- 6 INSTALL FIBER OPTIC DROP CABLE
- 7 INSTALL TRACER WIRE
- 8 TRENCH
- 9 INSTALL PVC CONDUIT
- 10 INSTALL RIGID, GALVANIZED STEEL CONDUIT
- 11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
- 12 INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL
- 13 INSTALL OUTER-DUCT POLYETHYLENE CONDUIT
- 14 INSTALL POLYETHYLENE CONDUIT
- 15 DIRECTIONAL DRILL CONDUIT
- 16 BORE AND JACK CONDUIT
- 17 INSTALL CABLE(S) IN EXISTING CONDUIT
- 18 INSTALL CABLE(S) IN NEW CONDUIT
- 19 INSTALL CABLE(S) IN EXISTING RISER AND RESEAL RISER WITH HEAT SHRINK TUBING RETROFIT KIT
- 20 INSTALL CABLE(S) IN NEW RISER
- 21 INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS
- 22 INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 23 INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 24 INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET
- 25 INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET
- 26 TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 27 INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET
- 29 INSTALL UNDERGROUND SPLICE ENCLOSURE
- 30 INSTALL AERIAL SPLICE ENCLOSURE
- 31 INSTALL POLE MOUNTED SPLICE CABINET
- 32 INSTALL BASE MOUNTED SPLICE CABINET
- 33 REMOVE EXISTING SPLICE CABINET
- 34 INSTALL CABINET FOUNDATION

- 35 REMOVE EXISTING CABINET FOUNDATION
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE WITH LOWERING DEVICE AND FOUNDATION
- 39 INSTALL JUNCTION BOX
- 40 INSTALL OVERSIZED JUNCTION BOX
- 41 REMOVE EXISTING JUNCTION BOX
- 42 INSTALL WOOD POLE
- 43 REMOVE EXISTING WOOD POLE
- 44 INSTALL AERIAL GUY ASSEMBLY
- 45 INSTALL STANDARD GUY ASSEMBLY
- 46 INSTALL SIDEWALK GUY ASSEMBLY
- 47 INSTALL MESSENGER CABLE
- 48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE
- 49 REMOVE EXISTING COMMUNICATIONS CABLE
- 50 INSTALL TELEPHONE SERVICE
- 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 52 INSTALL DELINEATOR MARKER
- 53 STORE 20 FEET OF COMMUNICATIONS CABLE
- 54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE
- 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 56 LASH CABLE(S) TO NEW MESSENGER CABLE
- 57 MODIFY EXISTING ELECTRICAL SERVICE
- 58 INSTALL NEW ELECTRICAL SERVICE
- 59 INSTALL MICROWAVE VEHICLE DETECTION (MVD) ASSEMBLY
- 60 INSTALL MVD METAL POLE AND FOUNDATION
- 61 INSTALL WIRELESS MVD WITH SOLAR POWER
- 62 INSTALL WIRELESS MVD CONTROLLER UNIT
- 63 INSTALL POLE MOUNTED CABINET
- 64 INSTALL ETHERNET SWITCH WITH FIBER OPTIC PORTS
- 65 INSTALL FIBER OPTIC VIDEO TRANSMITTER W/DATA
- 66 INSTALL FIBER OPTIC VIDEO RECEIVER W/DATA
- 67 MODIFY EXISTING SPLICE ENCLOSURE
- 68 INSTALL EXISTING CABLE IN NEW CABINET
- 69 MODIFY EXISTING INTERCONNECT CENTER

	CONSTRUCTION NOTES		
	PLAN DATE: DECEMBER 2007 PREPARED BY: S. C. WARDLE	REVIEWED BY: M. A. ASLAMI REVIEWED BY: T. G. PARKER	

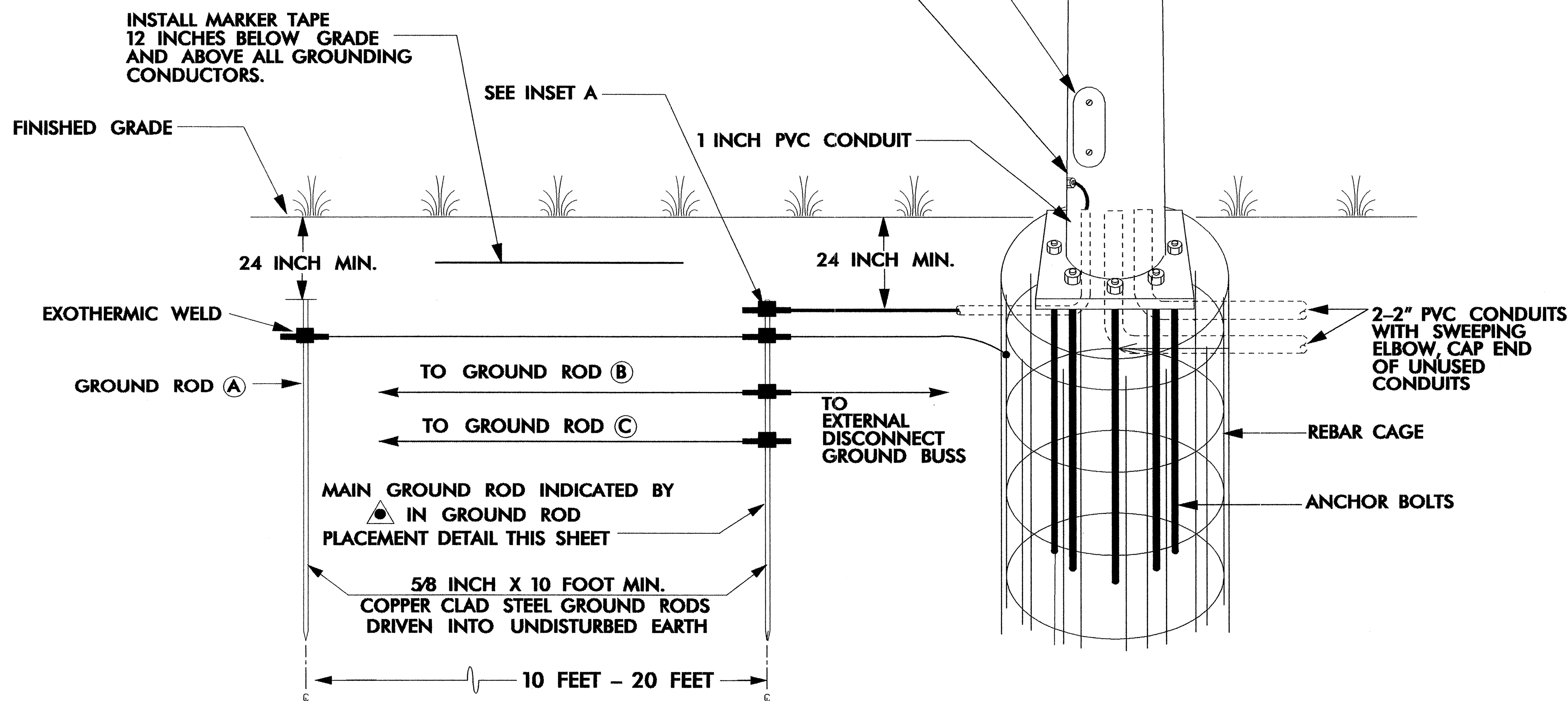
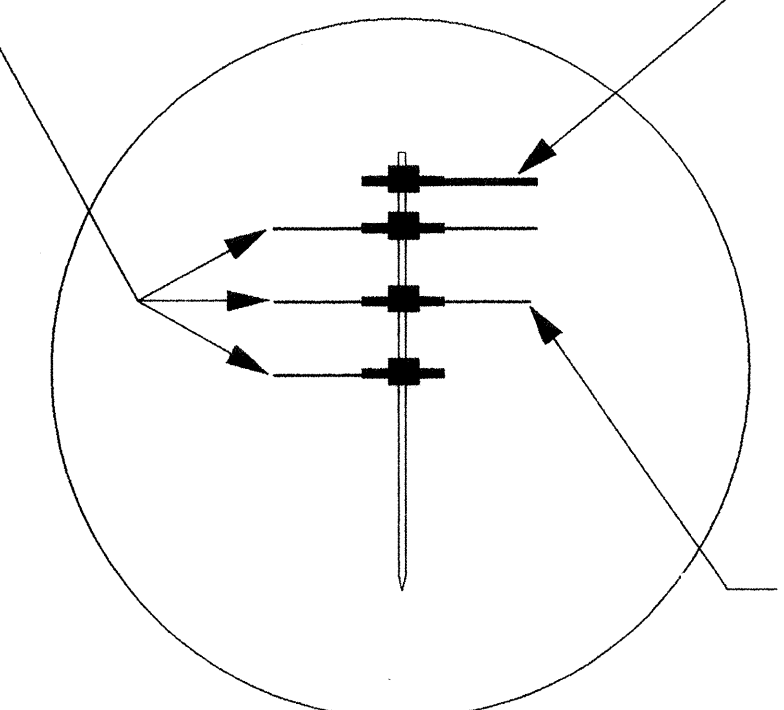


4 INCH X 8 INCH OVAL HANDHOLE

5/8 INCH GROUNDING LUG

#4 AWG SOLID BARE COPPER WIRE TO GROUND RODS A, B, AND C

0.5 INCH DIAMETER CLASS II COPPER CONDUCTOR TO BASE OF POLE

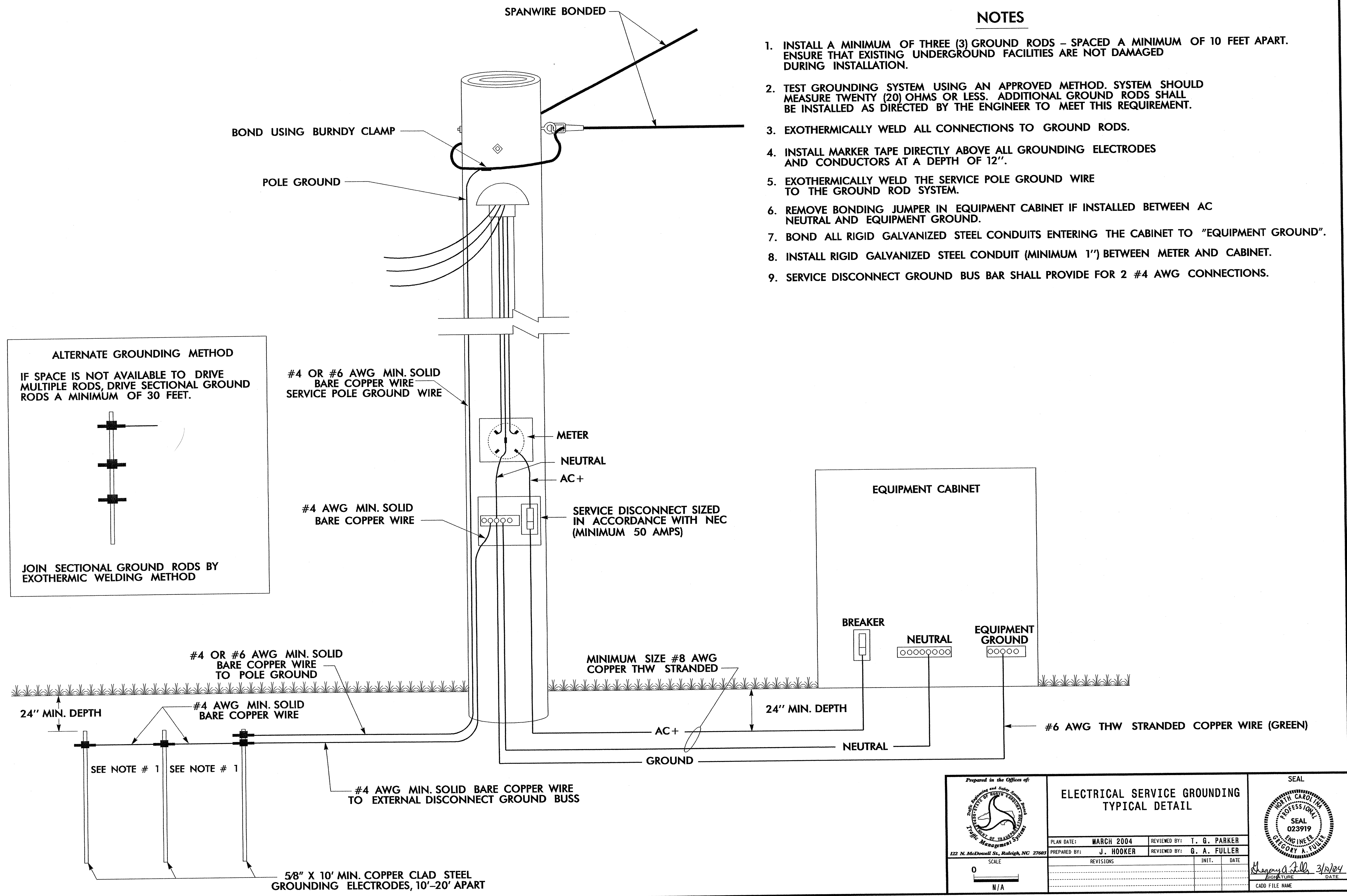


- NOTES**
1. BOND 0.5 INCH DIAMETER, 28 STRAND (MINIMUM) CLASS II COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD.
 2. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
 3. BOND #4 AWG SOLID BARE COPPER WIRE TO REBAR CAGE AND THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD
 4. BOND CAMERA HOUSING, CAMERA, AND PAN-TILT UNIT TO POLE
 5. THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30-FOOT SECTIONAL GROUND ROD WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 - RADIAL GROUND RODS.
 6. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.

	CCTV CAMERA INSTALLATION FOR METAL POLE WITH FOUNDATION TYPICAL DETAIL	
	PLAN DATE: MARCH 2004 PREPARED BY: J. HOOKER	REVIEWED BY: T. G. PARKER REVIEWED BY: G. A. FULLER
SCALE: 0	REVISIONS: MODIFICATION TO AIR TERMINAL	INIT. DATE: TGP 04/13/06 SIGNATURE: Gregory A. Fuller 4/13/06 DATE

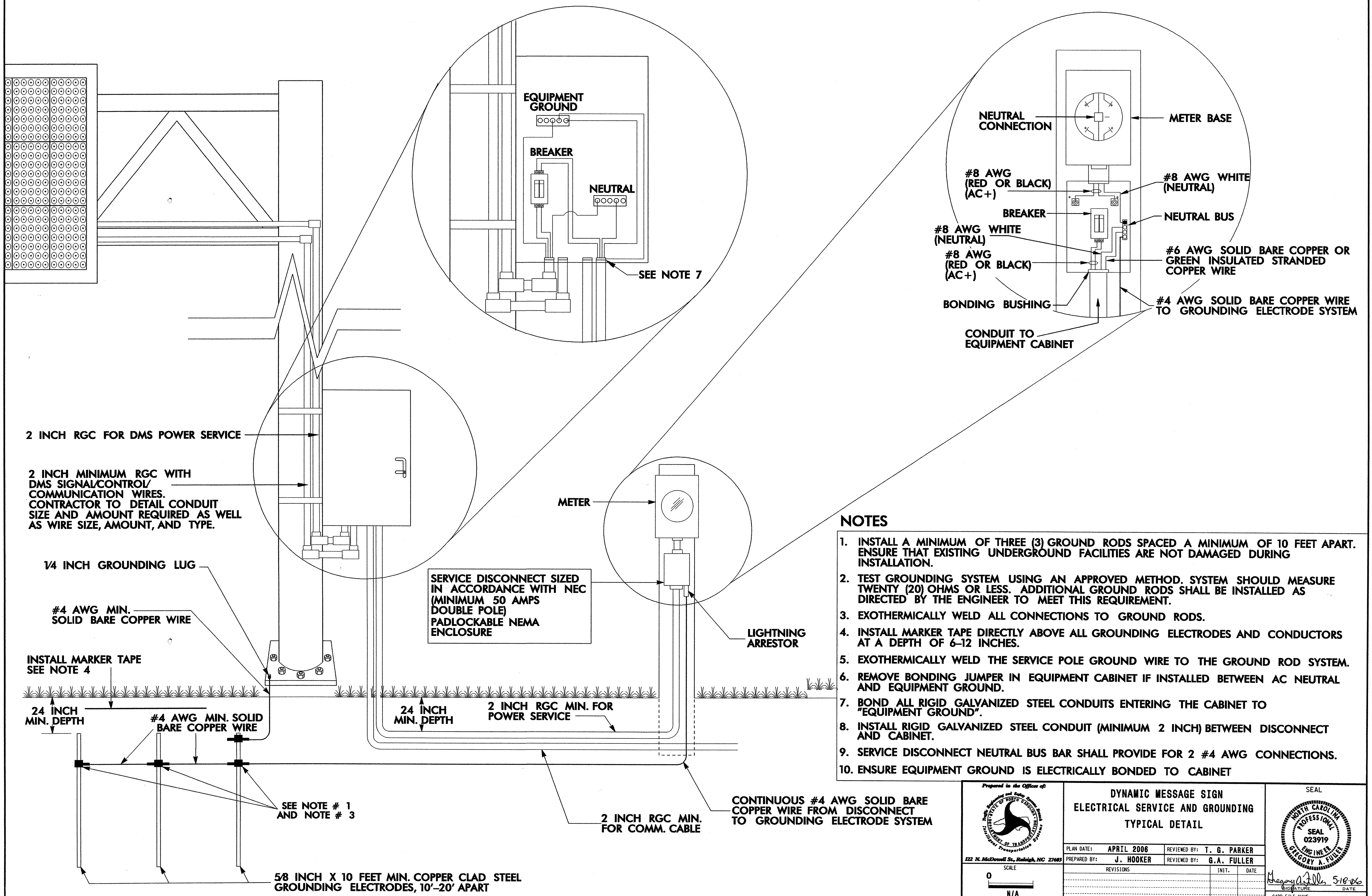
NOTES

1. INSTALL A MINIMUM OF THREE (3) GROUND RODS - SPACED A MINIMUM OF 10 FEET APART. ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED DURING INSTALLATION.
2. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHOULD MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUND RODS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
3. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12".
5. EXOTHERMICALLY WELD THE SERVICE POLE GROUND WIRE TO THE GROUND ROD SYSTEM.
6. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
7. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO "EQUIPMENT GROUND".
8. INSTALL RIGID GALVANIZED STEEL CONDUIT (MINIMUM 1") BETWEEN METER AND CABINET.
9. SERVICE DISCONNECT GROUND BUS BAR SHALL PROVIDE FOR 2 #4 AWG CONNECTIONS.



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 METHOD

<p>Prepared in the Office of:</p> <p>122 N. McDowell St., Raleigh, NC 27603</p>	<p>ELECTRICAL SERVICE GROUNDING TYPICAL DETAIL</p>		<p>SEAL</p>								
	<p>PLAN DATE: MARCH 2004 PREPARED BY: J. HOOKER</p>	<p>REVIEWED BY: T. G. PARKER REVIEWED BY: G. A. FULLER</p>		<table border="1"> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISIONS	INIT.	DATE				
REVISIONS	INIT.	DATE									
<p>SCALE: 0 N/A</p>	<p>SIGNATURE: <i>Gregory A. Fuller</i> DATE: 3/12/04</p>		<p>CADD FILE NAME</p>								



NOTES

1. INSTALL A MINIMUM OF THREE (3) GROUND RODS SPACED A MINIMUM OF 10 FEET APART. ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED DURING INSTALLATION.
2. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHOULD MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUND RODS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
3. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 6-12 INCHES.
5. EXOTHERMICALLY WELD THE SERVICE POLE GROUND WIRE TO THE GROUND ROD SYSTEM.
6. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
7. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO "EQUIPMENT GROUND".
8. INSTALL RIGID GALVANIZED STEEL CONDUIT (MINIMUM 2 INCH) BETWEEN DISCONNECT AND CABINET.
9. SERVICE DISCONNECT NEUTRAL BUS BAR SHALL PROVIDE FOR 2 #4 AWG CONNECTIONS.
10. ENSURE EQUIPMENT GROUND IS ELECTRICALLY BONDED TO CABINET

	DYNAMIC MESSAGE SIGN ELECTRICAL SERVICE AND GROUNDING TYPICAL DETAIL	
	PLAN DATE: APRIL 2006 PREPARED BY: J. HOOKER	REVIEWED BY: T. G. PARKER REVIEWED BY: G.A. FULLER
SCALE: 0 N/A	REVISIONS:	INIT. DATE:
CADD FILE NAME:		SIGNATURE: <i>Gregory A. Fuller</i> 5/18/06 DATE:

2 INCH RGC FOR DMS POWER SERVICE

2 INCH MINIMUM RGC WITH DMS SIGNAL/CONTROL/COMMUNICATION WIRES. CONTRACTOR TO DETAIL CONDUIT SIZE AND AMOUNT REQUIRED AS WELL AS WIRE SIZE, AMOUNT, AND TYPE.

1/4 INCH GROUNDING LUG

#4 AWG MIN. SOLID BARE COPPER WIRE

INSTALL MARKER TAPE SEE NOTE 4

24 INCH MIN. DEPTH
#4 AWG MIN. SOLID BARE COPPER WIRE

SEE NOTE # 1 AND NOTE # 3

5/8 INCH X 10 FEET MIN. COPPER CLAD STEEL GROUNDING ELECTRODES, 10'-20' APART

SERVICE DISCONNECT SIZED IN ACCORDANCE WITH NEC (MINIMUM 50 AMPS DOUBLE POLE) PADLOCKABLE NEMA ENCLOSURE

24 INCH MIN. DEPTH
2 INCH RGC MIN. FOR POWER SERVICE

2 INCH RGC MIN. FOR COMM. CABLE
CONTINUOUS #4 AWG SOLID BARE COPPER WIRE FROM DISCONNECT TO GROUNDING ELECTRODE SYSTEM

EQUIPMENT GROUND

BREAKER

NEUTRAL

SEE NOTE 7

METER

LIGHTNING ARRESTOR

NEUTRAL CONNECTION

METER BASE

#8 AWG (RED OR BLACK) (AC+)

#8 AWG WHITE (NEUTRAL)

BREAKER

NEUTRAL BUS

#8 AWG WHITE (NEUTRAL)

#6 AWG SOLID BARE COPPER OR GREEN INSULATED STRANDED COPPER WIRE

#8 AWG (RED OR BLACK) (AC+)

BONDING BUSHING

#4 AWG SOLID BARE COPPER WIRE TO GROUNDING ELECTRODE SYSTEM

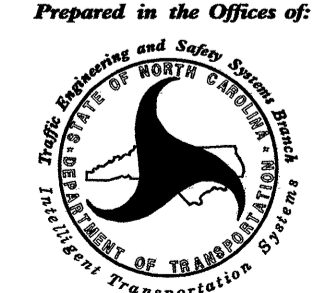
CONDUIT TO EQUIPMENT CABINET

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201460

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
4405000000-E	1110	390	SF	WORK ZONE SIGNS (PORTABLE)
4415000000-N	1115	2	EA	FLASHING ARROW PANELS, TYPE C
4422000000-N	1120	40	DAY	CHANGEABLE MESSAGE SIGN (SHORT TERM)
4430000000-N	1130	100	EA	DRUMS
4455000000-N	1150	60	MD	FLAGGER
4480000000-N	1165	1	EA	TMIA
4510000000-N	SP	20	HR	POLICE
7300000000-E	1715	330	LF	UNPAVED TRENCHING (*****) (2, 2')
7430000000-N	1722	18	EA	HEAT SHRINK TUBING RETROFIT KIT
7432000000-E	1722	3	EA	2" RISER WITH HEAT SHRINK TUBING
7980000000-N	SP	10	EA	GENERIC SIGNAL ITEM CCTV ASSEMBLY
7980000000-N	SP	10	EA	GENERIC SIGNAL ITEM CCTV CAMERA LOWERING SYSTEM
7980000000-N	SP	10	EA	GENERIC SIGNAL ITEM CCTV METAL POLE
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM CENTRAL ETHERNET SWITCH
7980000000-N	SP	10	EA	GENERIC SIGNAL ITEM FIBER OPTIC VIDEO RECEIVER W/ DATA (MRTMC)
7980000000-N	SP	10	EA	GENERIC SIGNAL ITEM FIBER OPTIC VIDEO TRANSMITTER W/ DATA (FIELD)
7980000000-N	SP	10	EA	GENERIC SIGNAL ITEM FIELD EQUIPMENT CABINET
7980000000-N	SP	10	EA	GENERIC SIGNAL ITEM FIELD ETHERNET SWITCH
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM FURNISH ONLY CCTV CAMERA
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM FURNISH ONLY FIELD ETHERNET SWITCH
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM FURNISH ONLY MVD DETECTOR

ItemNumber	Sec #	Quantity	Unit	Description
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM FURNISH ONLY VOR-D
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM FURNISH ONLY VOT-D
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM INTEGRATE TERMINAL SERVER
7980000000-N	SP	13	EA	GENERIC SIGNAL ITEM INTERCONNECT CENTER
7980000000-N	SP	11	EA	GENERIC SIGNAL ITEM JUNCTION BOX (OVER-SIZED, HEAVY DUTY)
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM MODIFIED ELECTRICAL SERVICE
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM MODIFY INTERCONNECT CENTER
7980000000-N	SP	19	EA	GENERIC SIGNAL ITEM MODIFY SPLICE ENCLOSURE
7980000000-N	SP	16	EA	GENERIC SIGNAL ITEM MVD ASSEMBLY
7980000000-N	SP	10	EA	GENERIC SIGNAL ITEM NEW ELECTRICAL SERVICE
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM NEW PHONE SERVICE
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM PORTABLE CCTV LOWERING DEVICE
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM SPICE ENCLOSURE
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM VIDEO DISTRIBUTION AMPLIFIERS
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM WALL MOUNTED INTERCONNECT CENTER
7985000000-N	SP	Lump Sum		GENERIC SIGNAL ITEM DMS - 1 INSTALLATION
7985000000-N	SP	Lump Sum		GENERIC SIGNAL ITEM DMS - 1 ACCESS LADDER
7985000000-N	SP	Lump Sum		GENERIC SIGNAL ITEM DMS - 2 INSTALLATION
7985000000-N	SP	Lump Sum		GENERIC SIGNAL ITEM DMS - 2 ACCESS LADDER
7985000000-N	SP	Lump Sum		GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN ASSEMBLY "DMS - 1"

ItemNumber	Sec #	Quantity	Unit	Description
7985000000-N	SP	Lump Sum		GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN ASSEMBLY "DMS - 2"
7985000000-N	SP	Lump Sum		GENERIC SIGNAL ITEM MRTMC SOFTWARE MODIFICATIONS
7985000000-N	SP	Lump Sum		GENERIC SIGNAL ITEM VIDEO SWITCH MODIFICATIONS
7990000000-E	SP	49,436	LF	GENERIC SIGNAL ITEM COMMUNICATIONS CABLE (72-FIBER)
7990000000-E	SP	1,395	LF	GENERIC SIGNAL ITEM DIRECTIONAL DRILL CONDUIT (2, 2")
7990000000-E	SP	300	LF	GENERIC SIGNAL ITEM DIRECTIONAL DRILL CONDUIT (3, 2")
7990000000-E	SP	4,167	LF	GENERIC SIGNAL ITEM DROP CABLE
7990000000-E	SP	1,725	LF	GENERIC SIGNAL ITEM TRACER WIRE
7992000000-E	SP	18	CY	GENERIC SIGNAL ITEM DMS FOOTING

 Prepared in the Offices of: 750 N. Greenfield Pkwy., Garner, NC 27529	SUMMARY OF QUANTITIES			
	PLAN DATE:	REVIEWED BY:		
	PREPARED BY:	REVIEWED BY:		
	SCALE	REVISIONS	INIT.	DATE
0 N/A				
CADD FILE NAME				