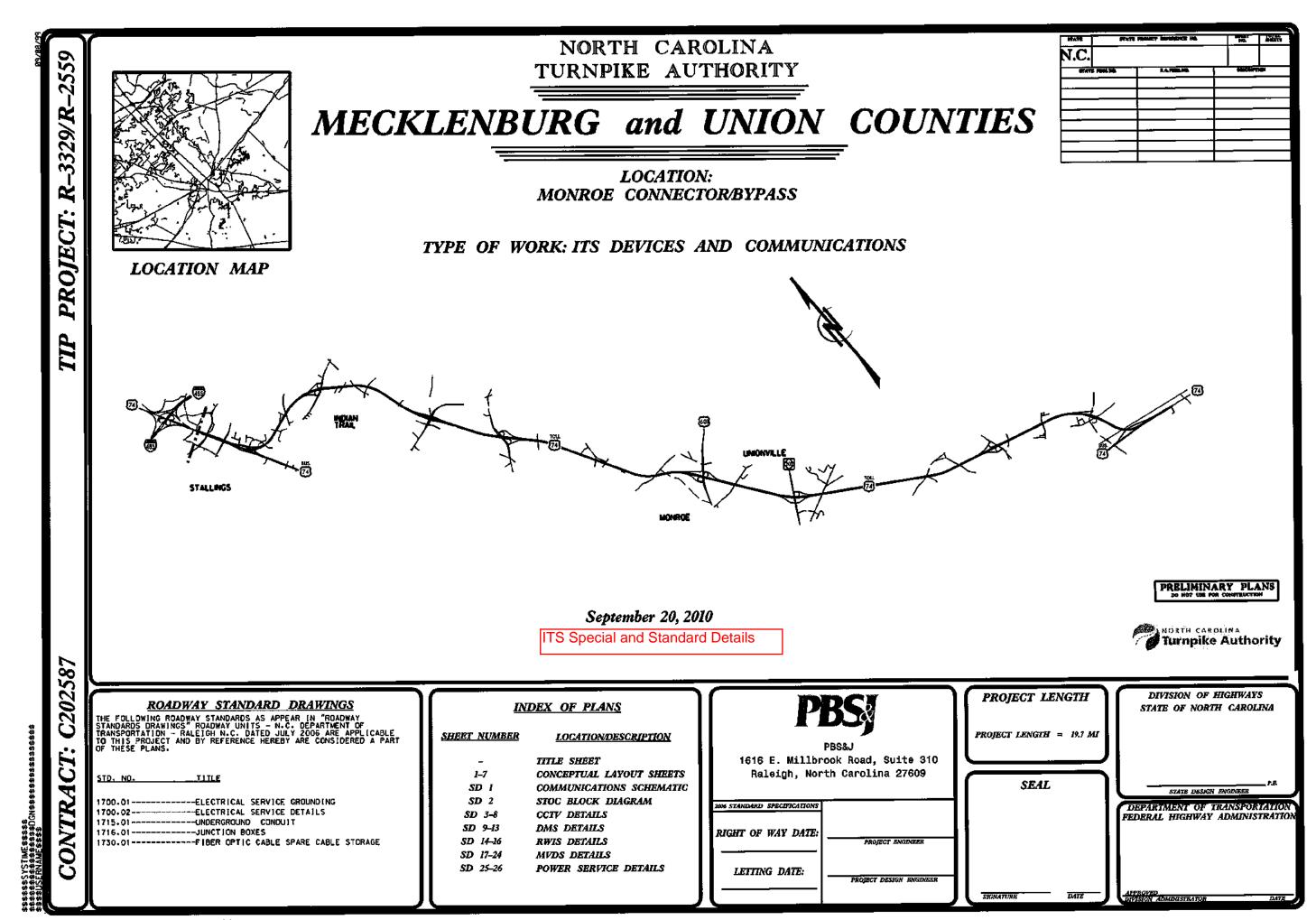
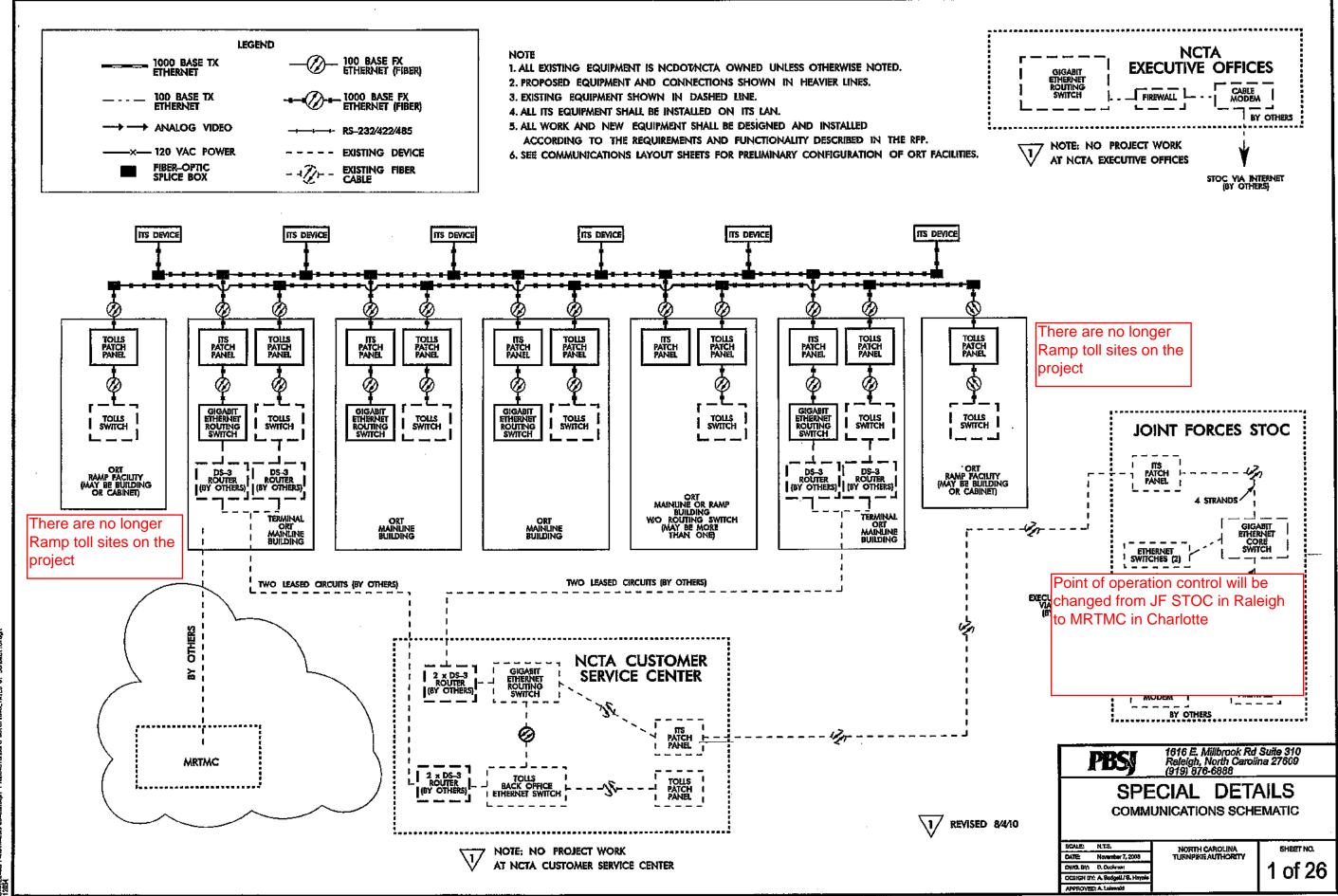
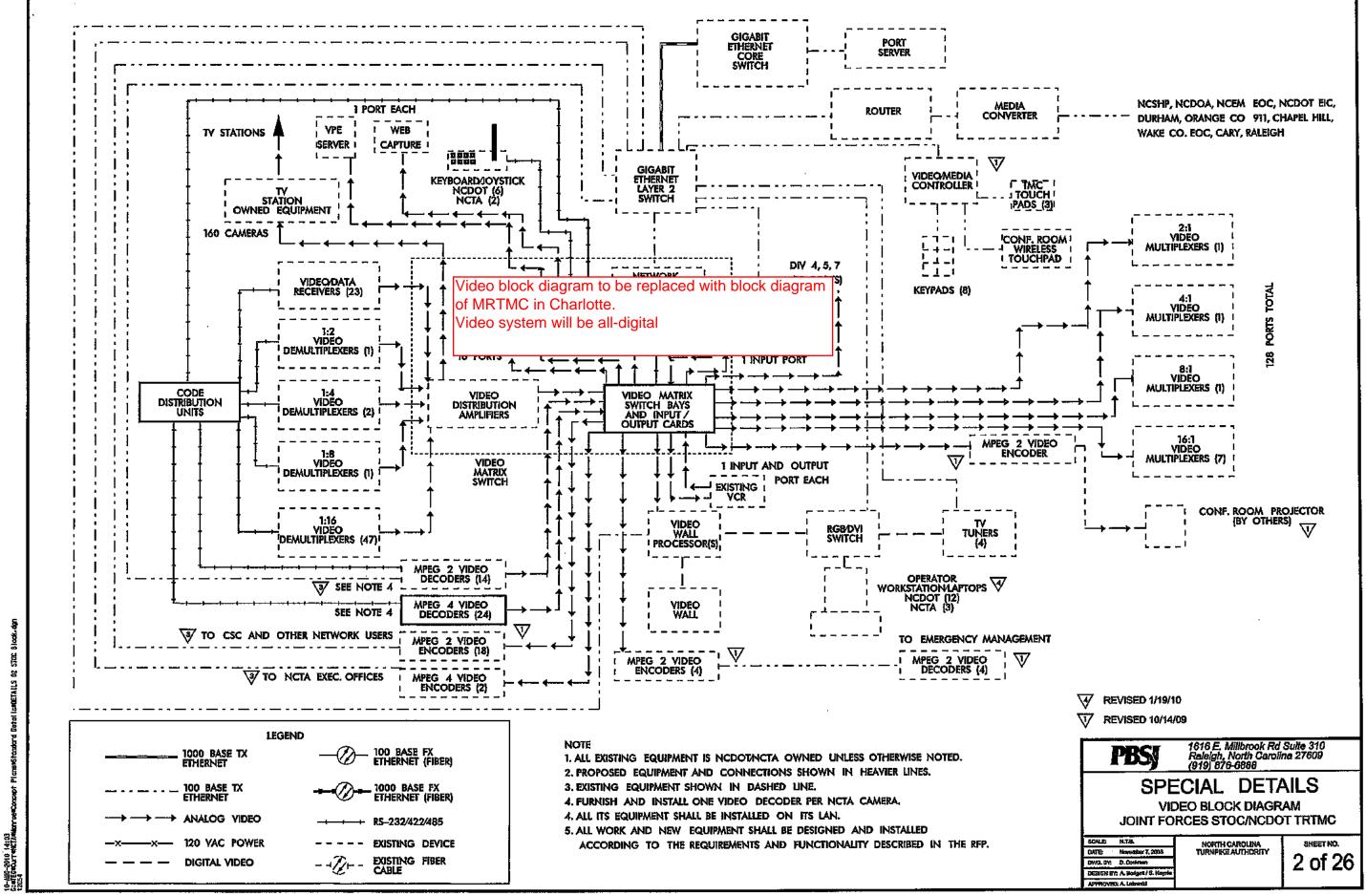
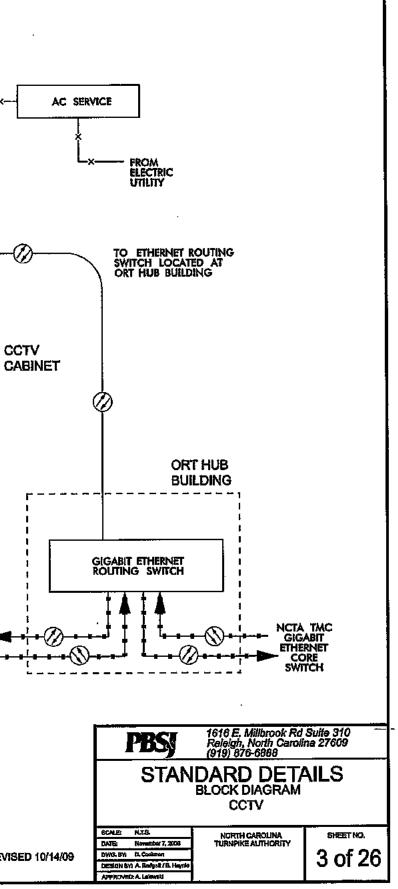
## Attachment 15 Monroe ITS Special and Standard Details

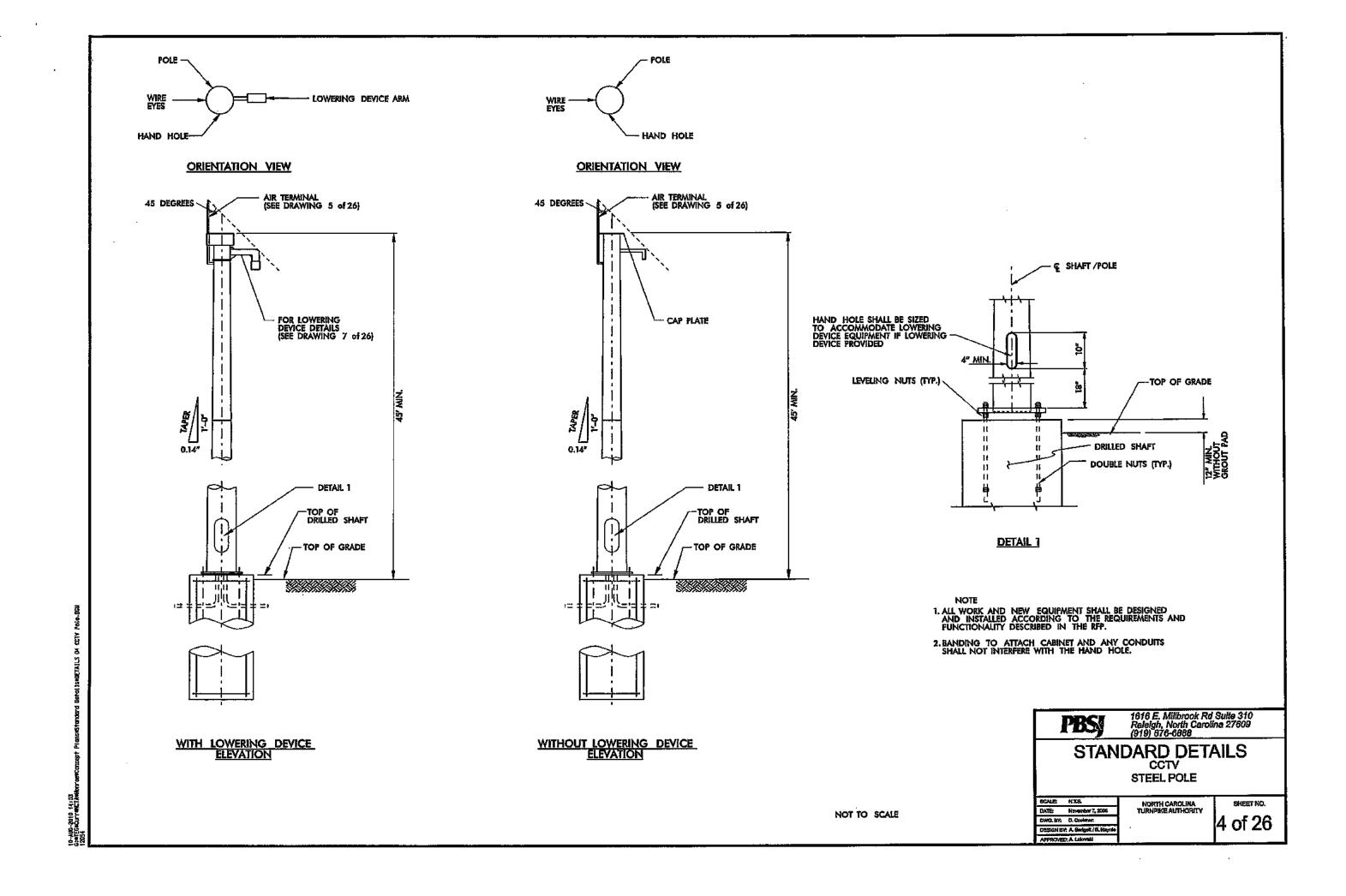


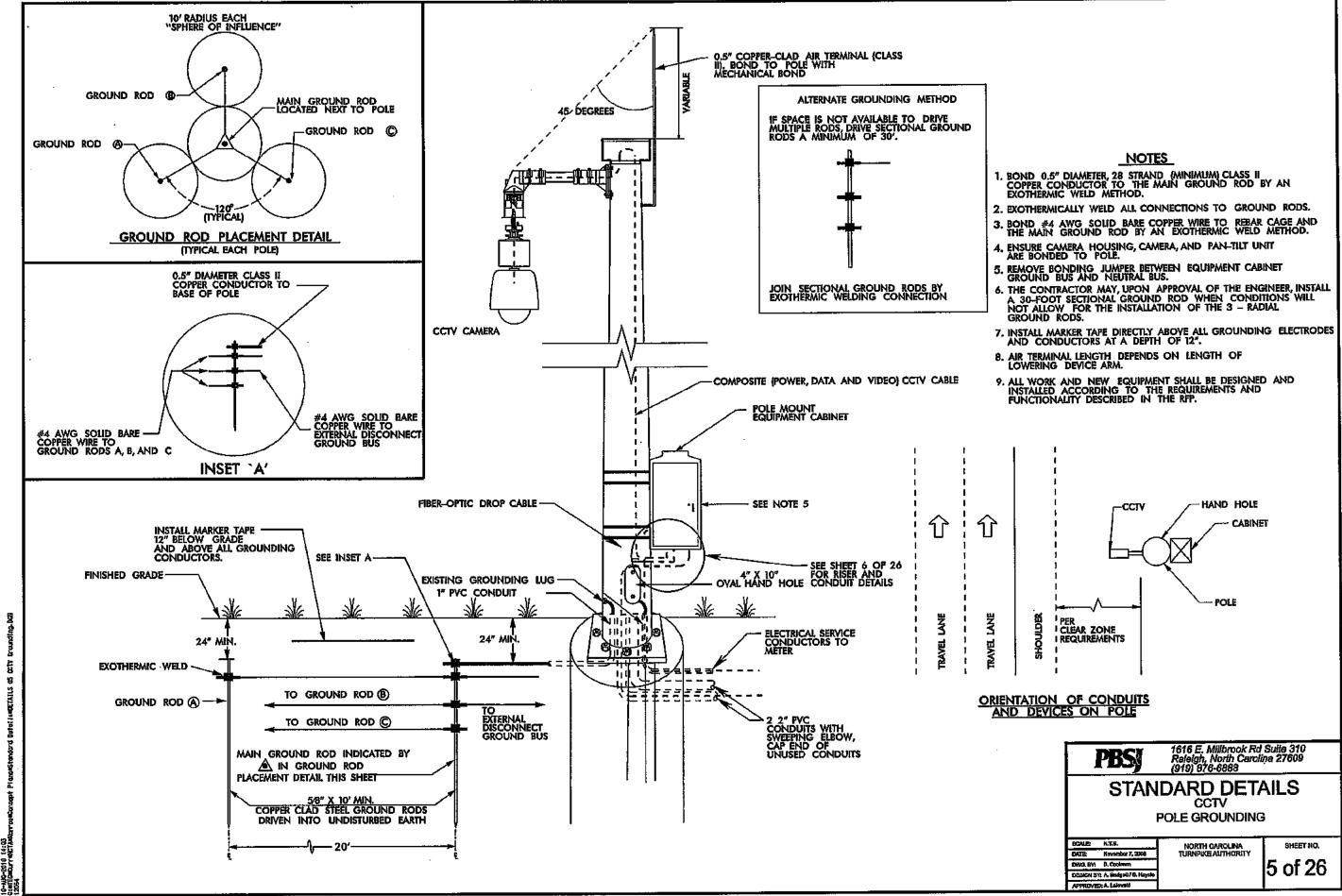


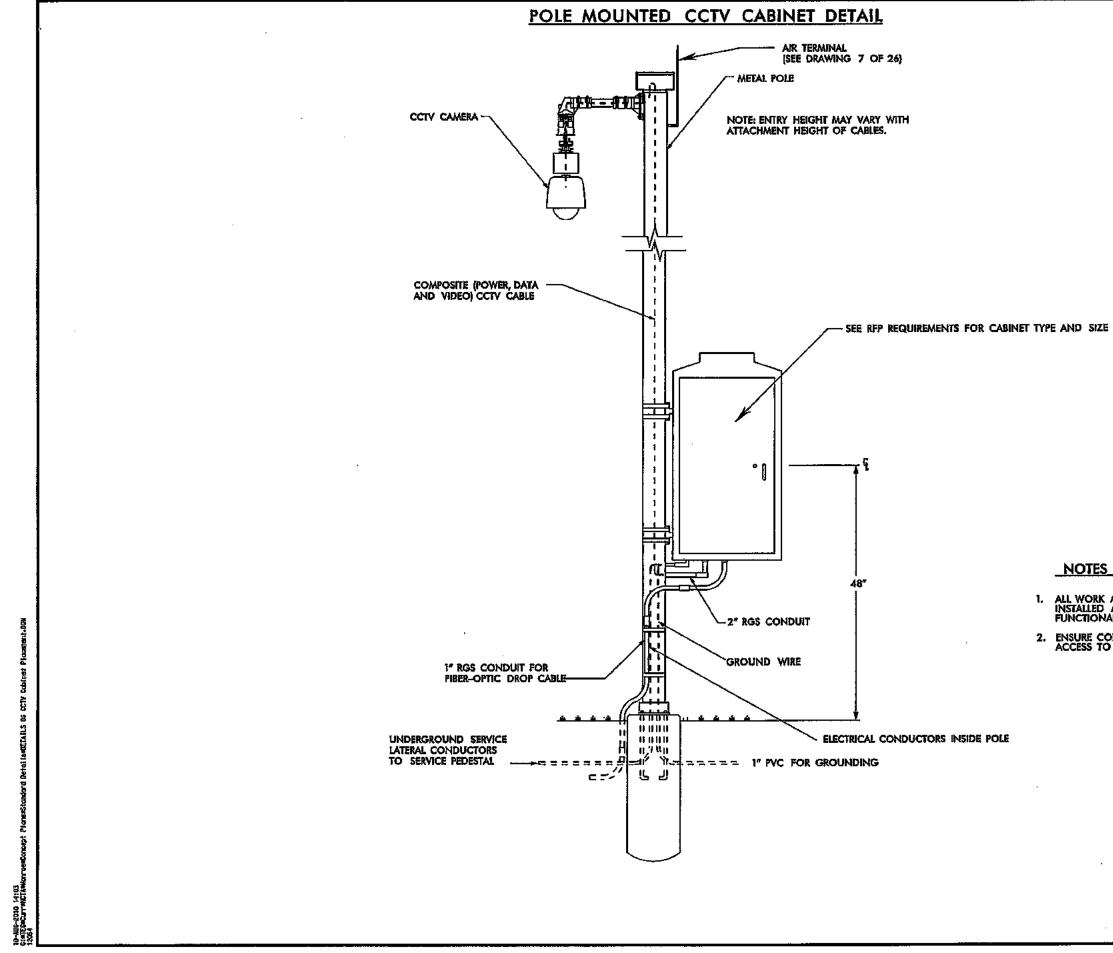


অ CONVENIENCE OUTLET WITH SPD FOR EQUIPMENT POWER POWER DISTRIBUTION ASSEMBLY SPD SPD  $\nabla$ OPTIONAL POWER SUPPLY (IF OTHER THAN 120V) LOCAL MANAGEMENT PORT RS-232 POWER SUPPLY ETHERNET OPTIONAL POWER <sup>/</sup> SUPPLY (IF OTHER THAN 120V) GFI CONVENIENCE OUTLET(S) FOR PORTABLE TOOLS 10/100 BASE TX/RX MPEG-4 Ø ETHERNET EDGE SWITCH VIDEO ENCODER SEE NOTE 1 CCTV VIDEO SPLITTER LOCAL MANAGEMENT ACCESS SPD RS-232 LOCAL MANAGEMENT PORT -8 Ô−i <sup>±</sup>REMOTE SPD e R5-232/422/485 0-SERIAL DATA LOCAL  $\nabla$ LOCAL INTERFACE PANEL CCTV CAMERA NOTE: GIGABIT ETHERNET ROUTING 1. VIDEO ENCODER AND ETHERNET SWITCH MAY BE ONE OR MORE DEVICES. SWITCH 2. ALL WORK AND NEW EQUIPMENT SHALL BE DESIGNED AND INSTALLED ACCORDING TO THE REQUIREMENTS AND FUNCTIONALITY DESCRIBED IN THE REP. LEGEND 100 BASE FX ETHERNET (FIBER) 1000 BASE TX ETHERNET 100 BASE TX ETHERNET ----- 1000 BASE FX ETHERNET (FIBER) ANALOG VIDEO → RS-232/422/485 100 120 VAC POWER ---- EXISTING DEVICE - - - 72+-EXISTING FIBER CABLE LOW VOLTAGE POWER W REVISED 10/14/09







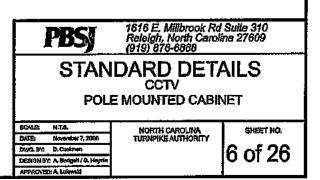


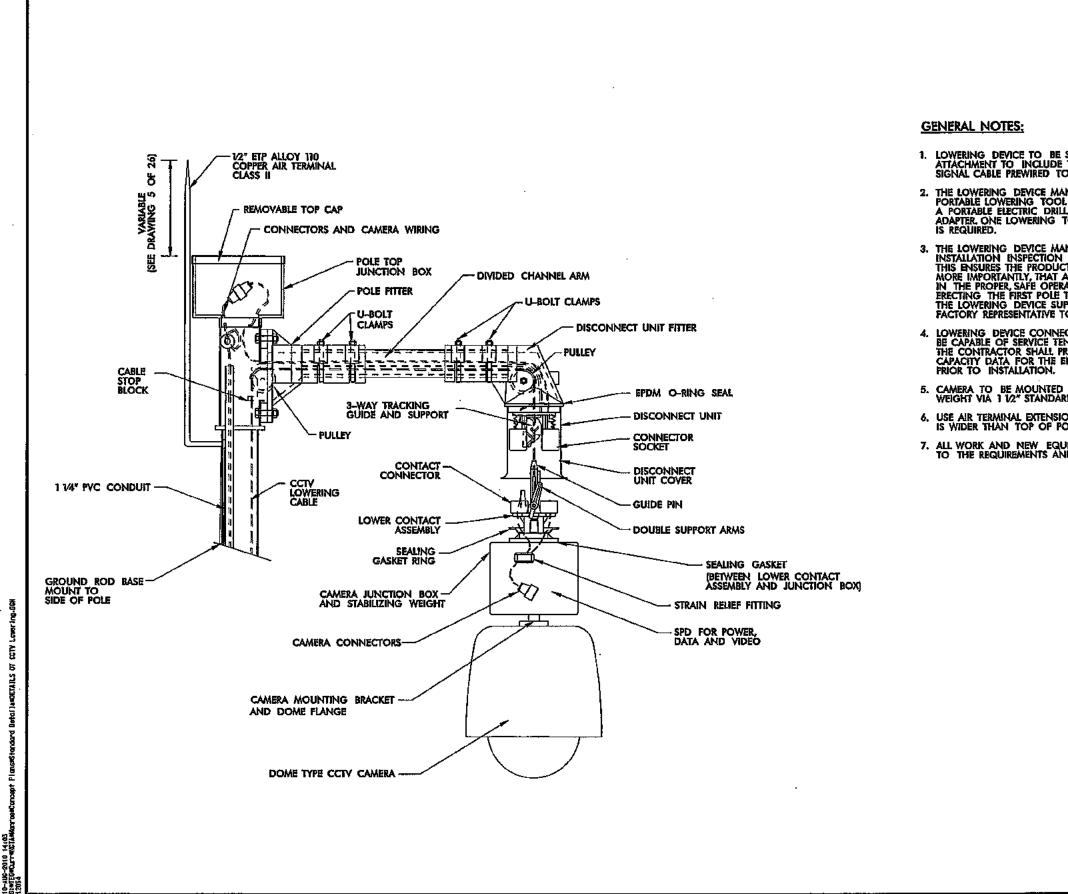
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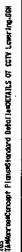
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1. ALL WORK AND NEW EQUIPMENT SHALL BE DESIGNED AND INSTALLED ACCORDING TO THE REQUIREMENTS AND FUNCTIONALITY DESCRIBED IN THE RFP. 2. ENSURE CONDUITS STRAPS DO NOT OBSTRUCT ACCESS TO HANDHOLES.

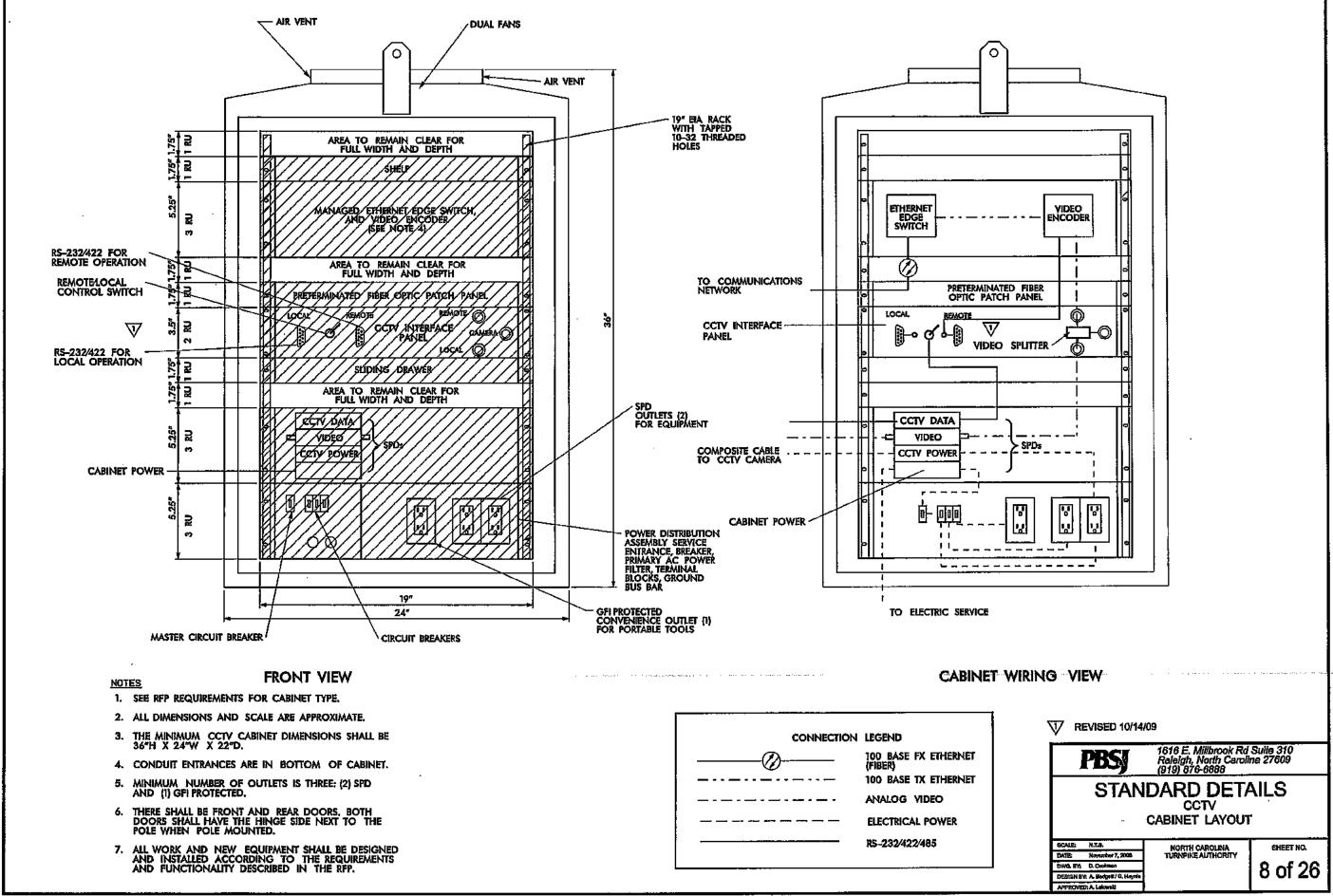






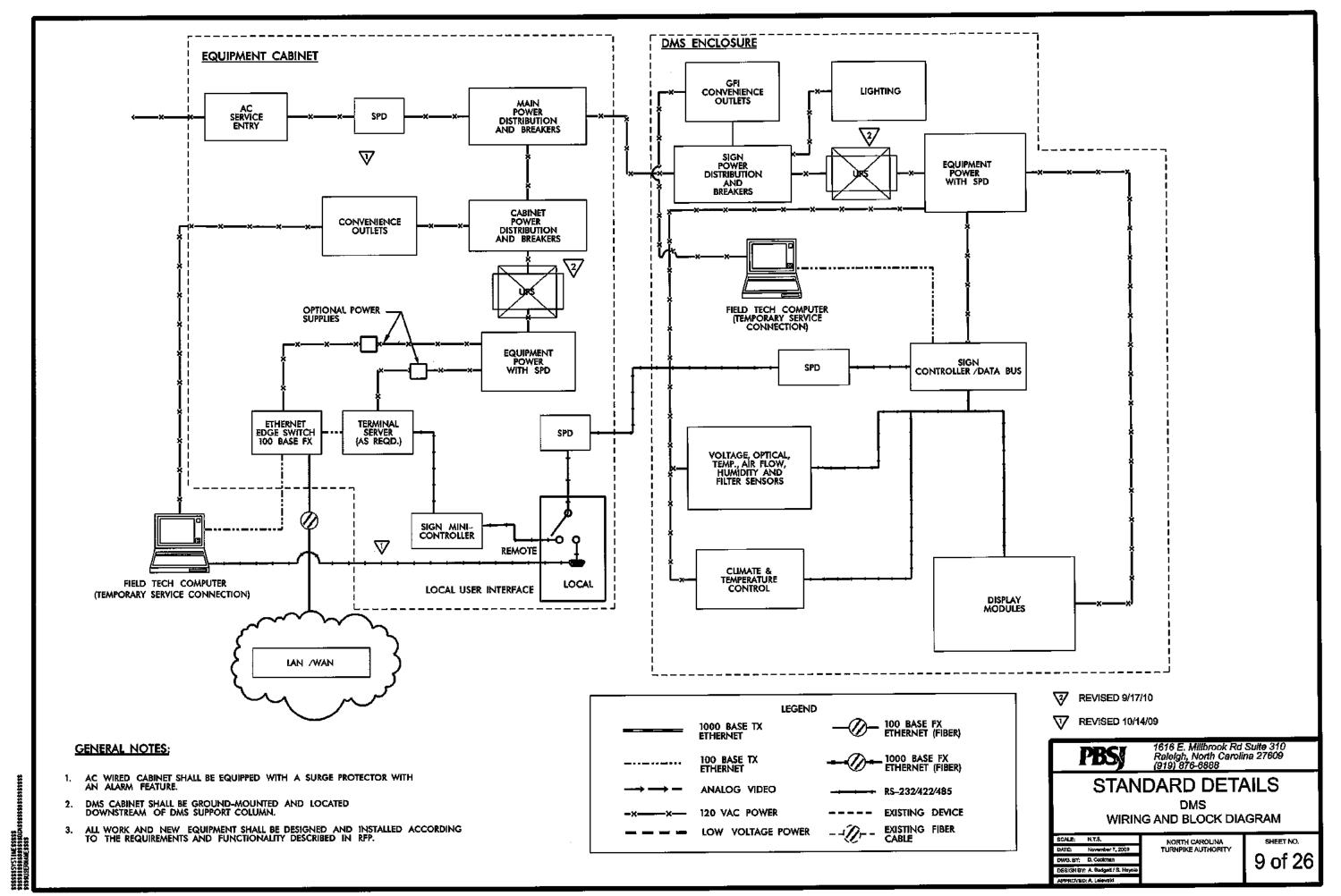
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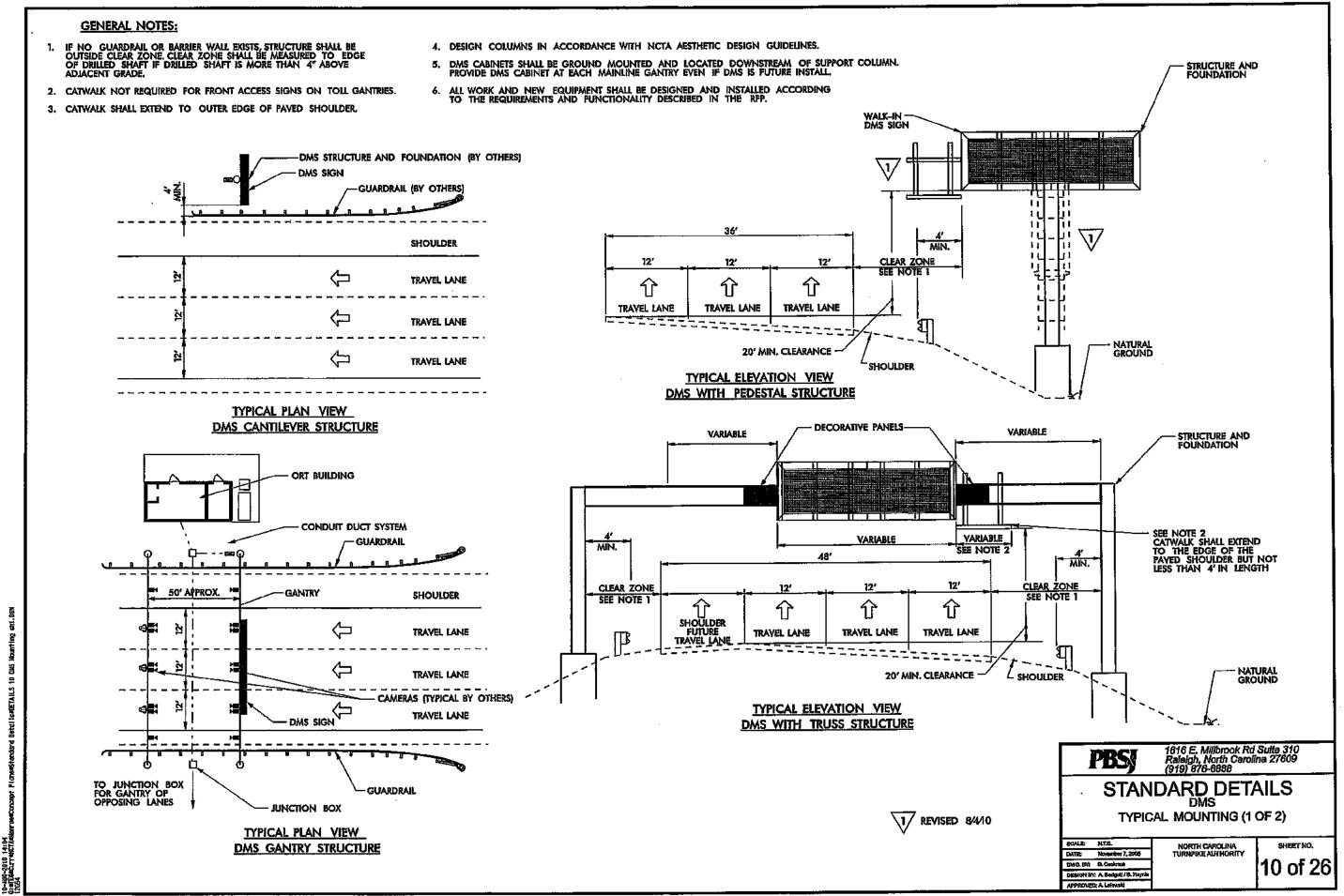
1. LOWERING DEVICE TO BE SHIPPED READY FOR POLE ATTACHMENT TO INCLUDE 100 FT, OF COMPOSITE POWER AND SIGNAL CABLE PREWIRED TO LOWERING DEVICE AT THE FACTORY. 2. THE LOWERING DEVICE MANUFACTURER SHALL SUPPLY BOTH A PORTABLE LOWERING TOOL WITH A MANUAL HAND CRANK AND A PORTABLE ELECTRIC DRILL MOTOR WITH CUSTOM CLUTCH ADAPTER, ONE LOWERING TOOI, PER EVERY 10 LOWERING DEVICES IS REQUIRED. 3. THE LOWERING DEVICE MANUFACTURER SHALL PROVIDE AN ON-SITE INSTALLATION INSPECTION AND OPERATOR INSTRUCTION AND CERTIFICATION. THIS ENSURES THE PRODUCT IS ASSEMBLED CORRECTLY AND, MORE IMPORTANTLY, THAT ALL NECESSARY PERSONS ARE TRAINED IN THE PROPER, SAFE OPERATION OF THE SYSTEM. BEFORE ERECTING THE FIRST POLE THE CONTRACTOR MUST CONTACT THE LOWERING DEVICE SUPPLIER AND SCHEDULE A FACTORY REPRESENTATIVE TO BE ON-SITE. 4. LOWERING DEVICE CONNECTION TO TOP OF POLE SHALL BE CAPABLE OF SERVICE TENSION AND SHEAR OF I KIP MINIMUM. THE CONTRACTOR SHALL PROVIDE PRODUCT CUT SHEET AND CAPACITY DATA FOR THE ENGINEER'S REVIEW AND APPROVAL FRIOR TO INSTALLATION. 5. CAMERA TO BE MOUNTED TO CAMERA JUNCTION BOX AND STABILIZING WEIGHT VIA 1 1/2" STANDARD NPT PIPE THREAD. 6. USE AIR TERMINAL EXTENSION WHEN THE POLE TOP JUNCTION BOX IS WIDER THAN TOP OF POLE. 7. ALL WORK AND NEW EQUIPMENT SHALL HE DESIGNED AND INSTALLED ACCORDING TO THE REQUIREMENTS AND FUNCTIONALITY DESCRIBED IN THE REP. 1616 E. Milibrook Rd Suite 310 Raleigh, North Carolina 27609 (919) 876-6588 PBS STANDARD DETAILS CCTV CAMERA LOWERING DEVICE BCALE: N.T.B. NORTH GAROLINA SHEET NO. DATE: November 7, 2008 TURNPIKE AUTHORITY 7 of 26 DWG BIA D. Cookman DESIGN BY: A. Bodgoti / B. Hoyni APPROVED: A.L.O

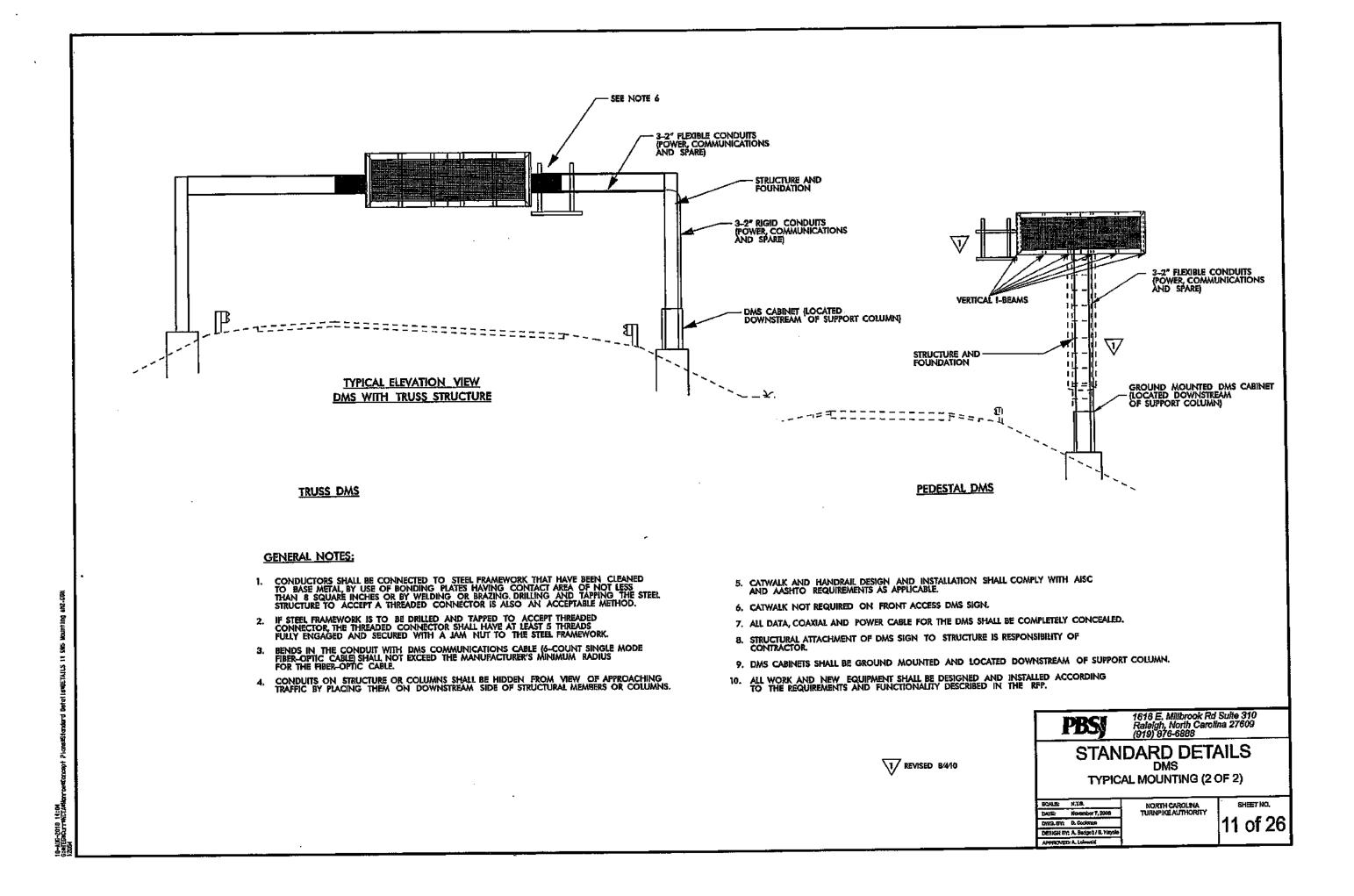


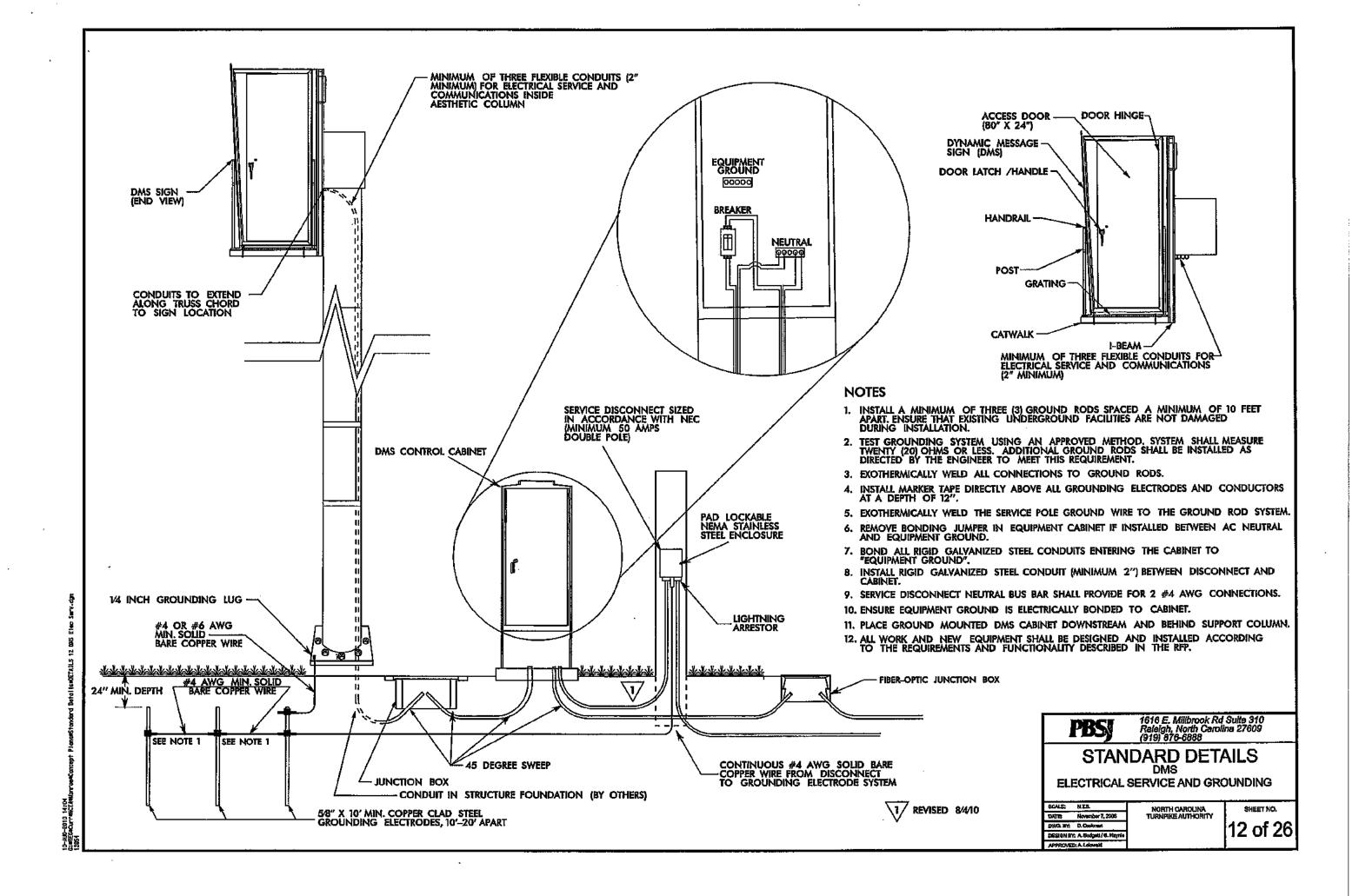
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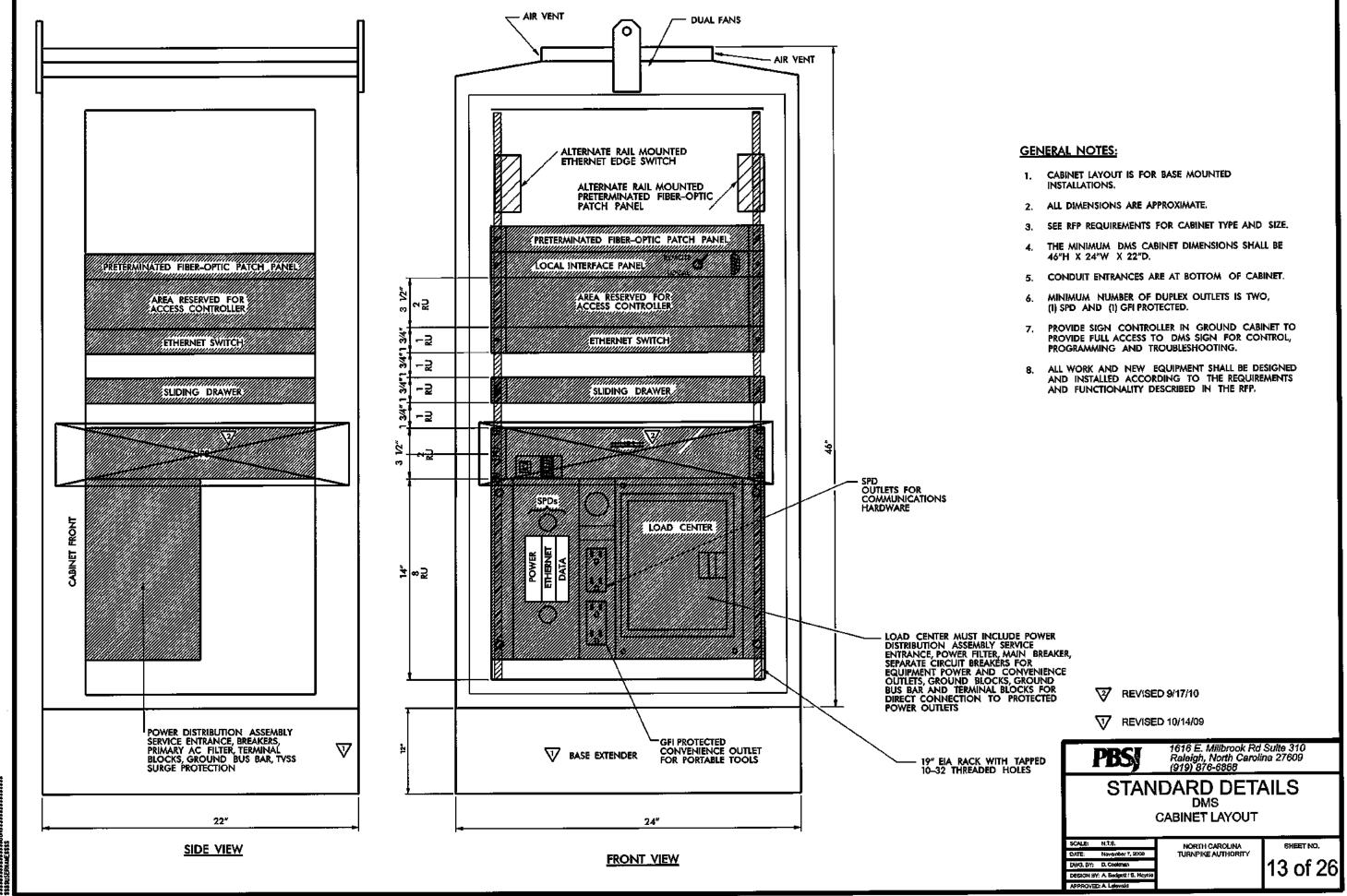
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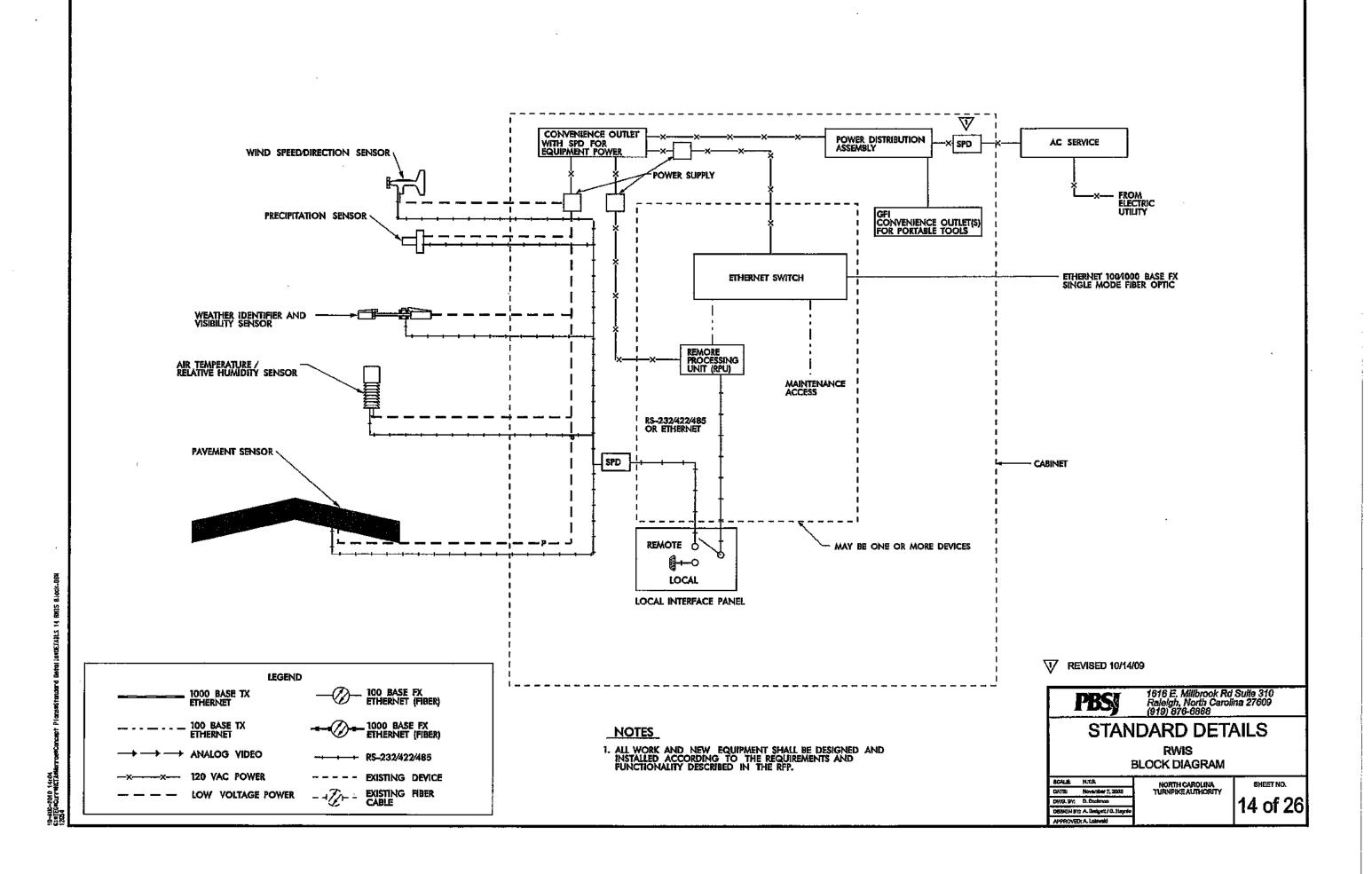


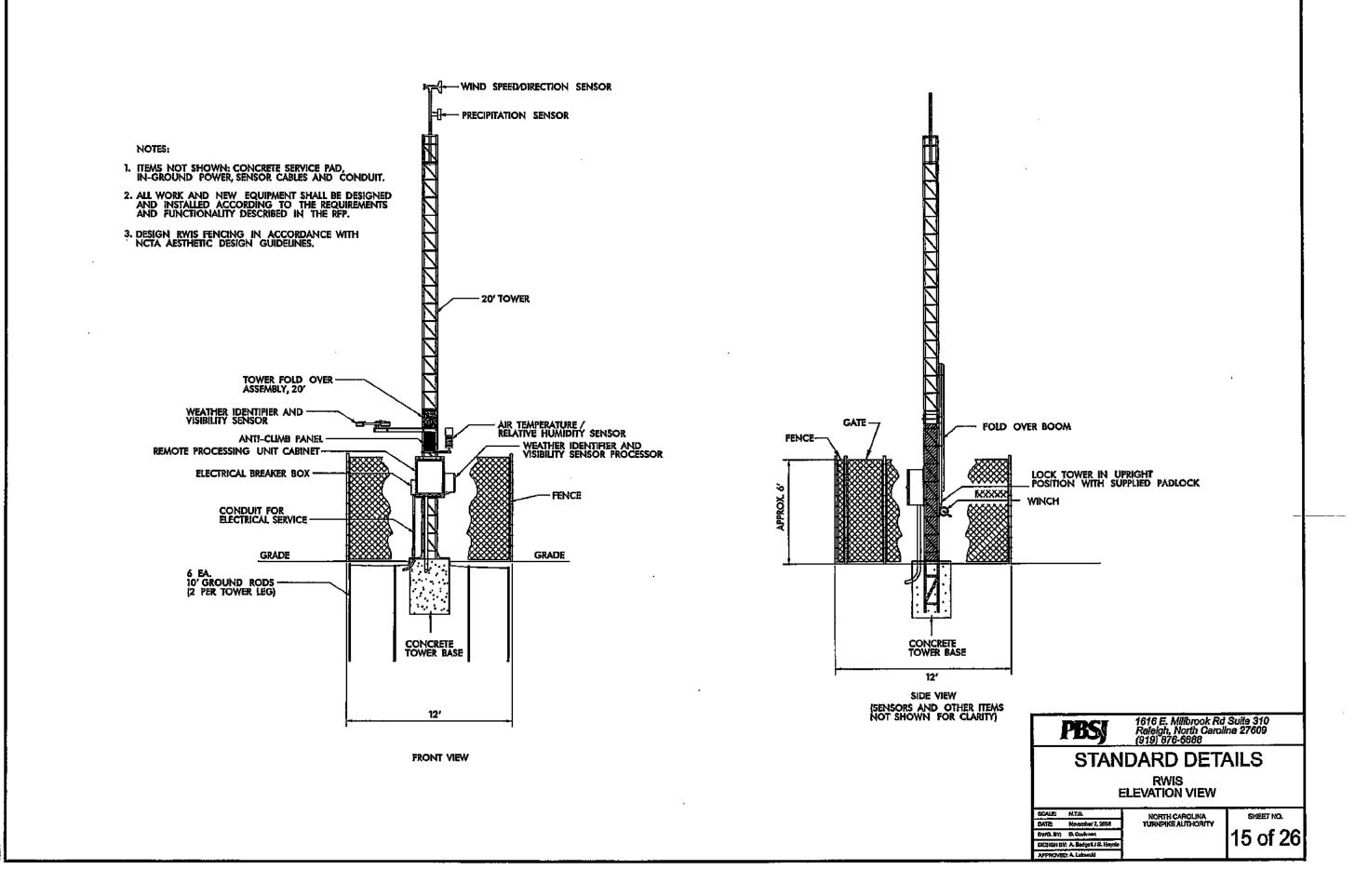






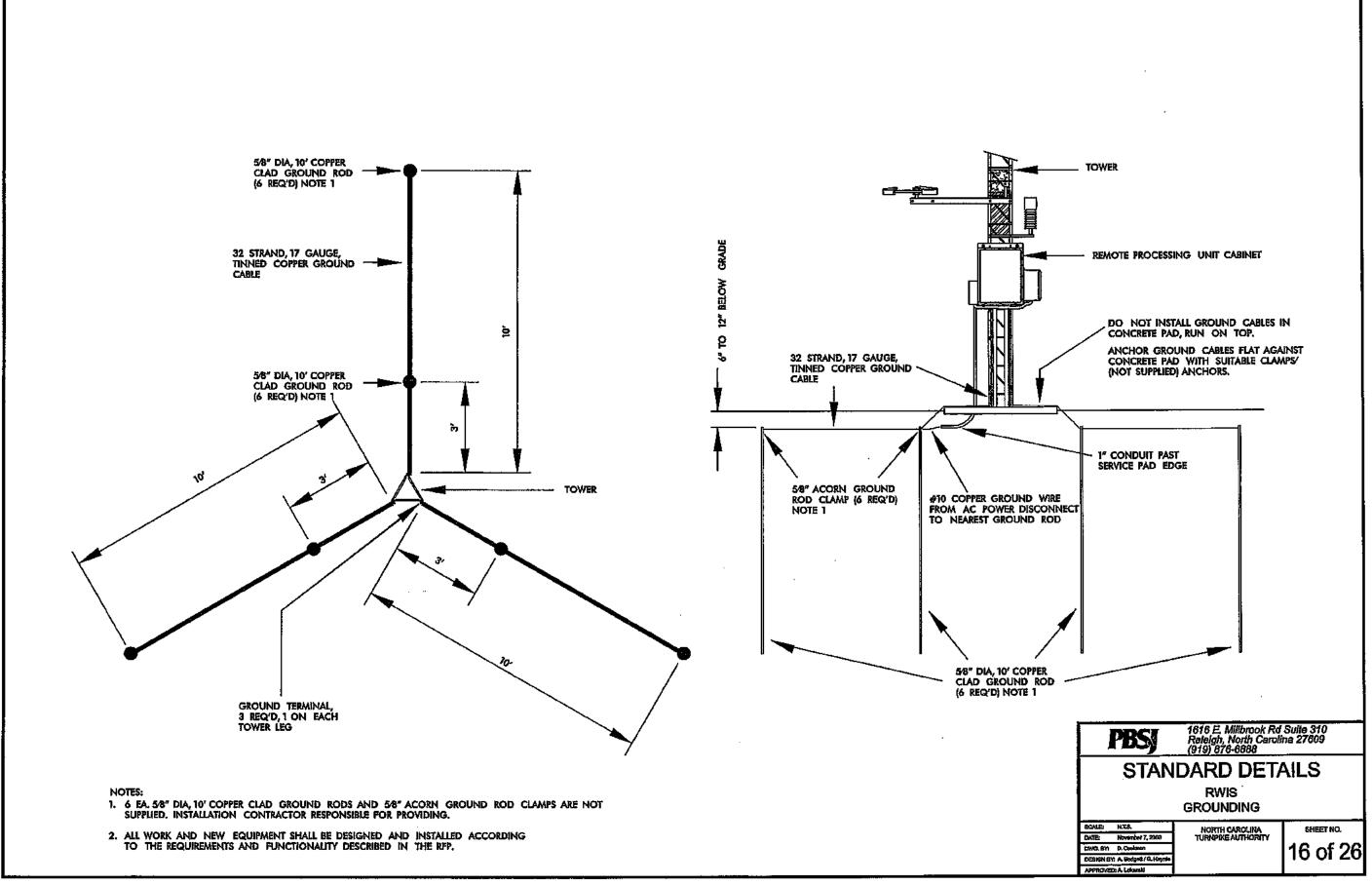








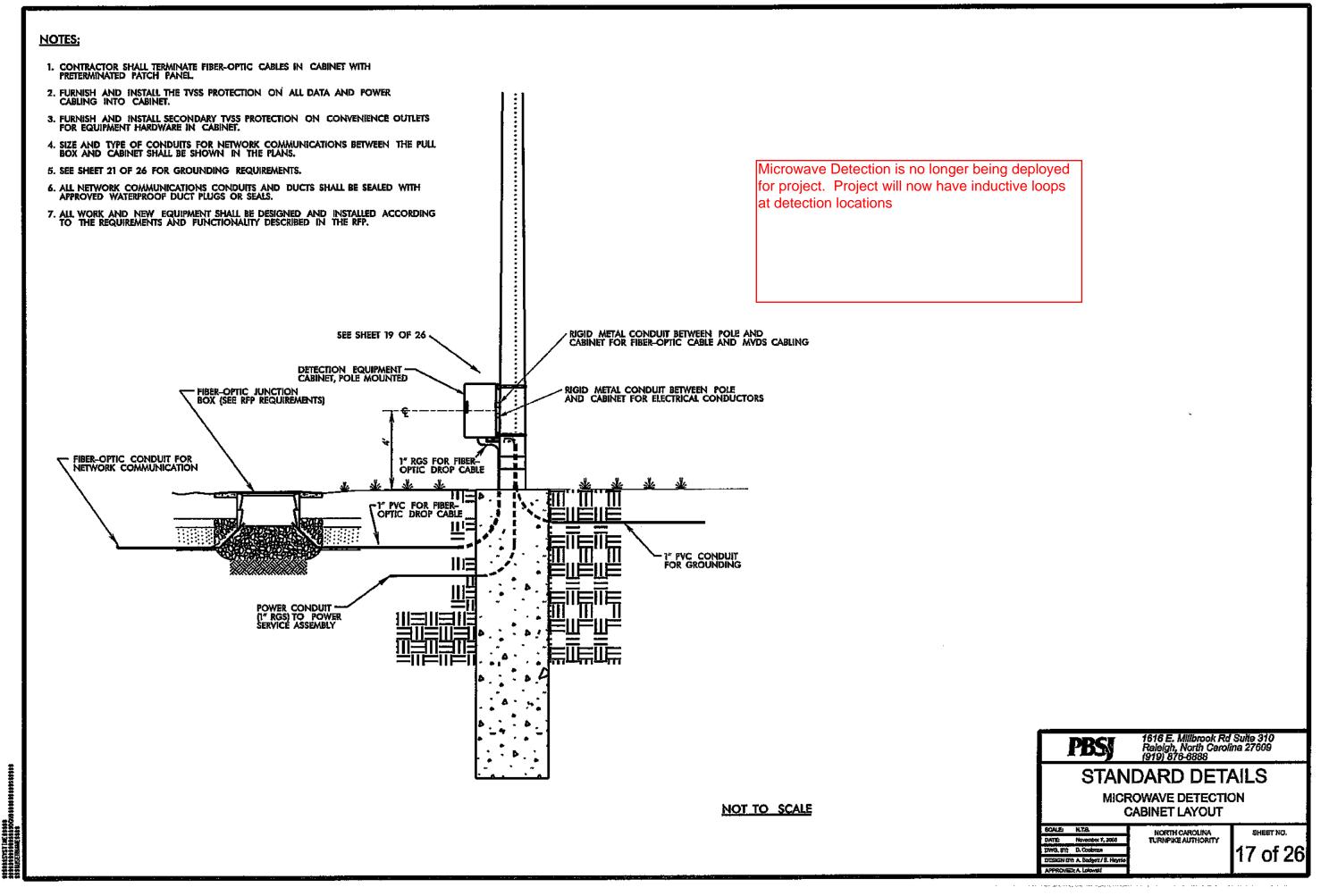
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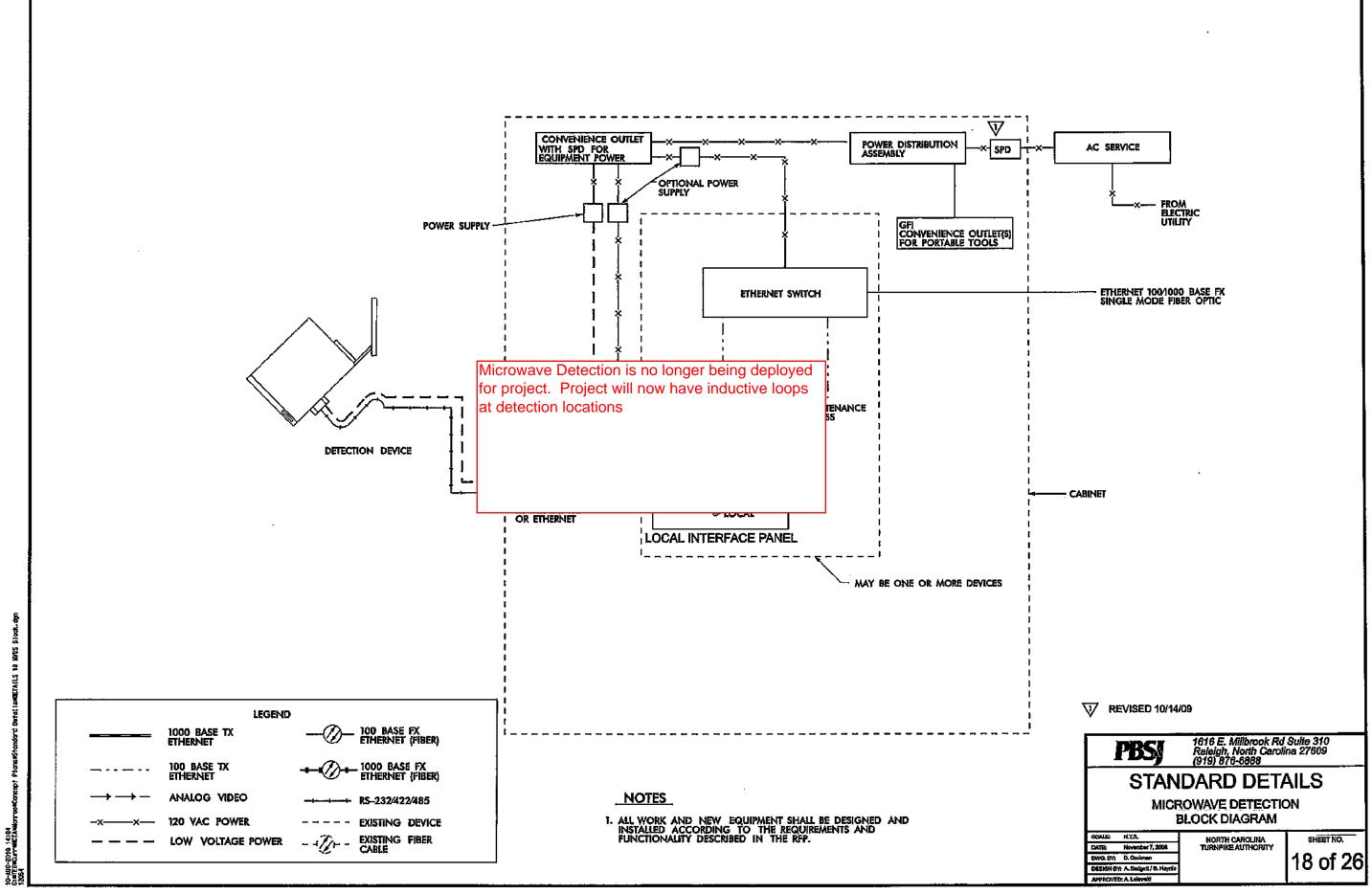


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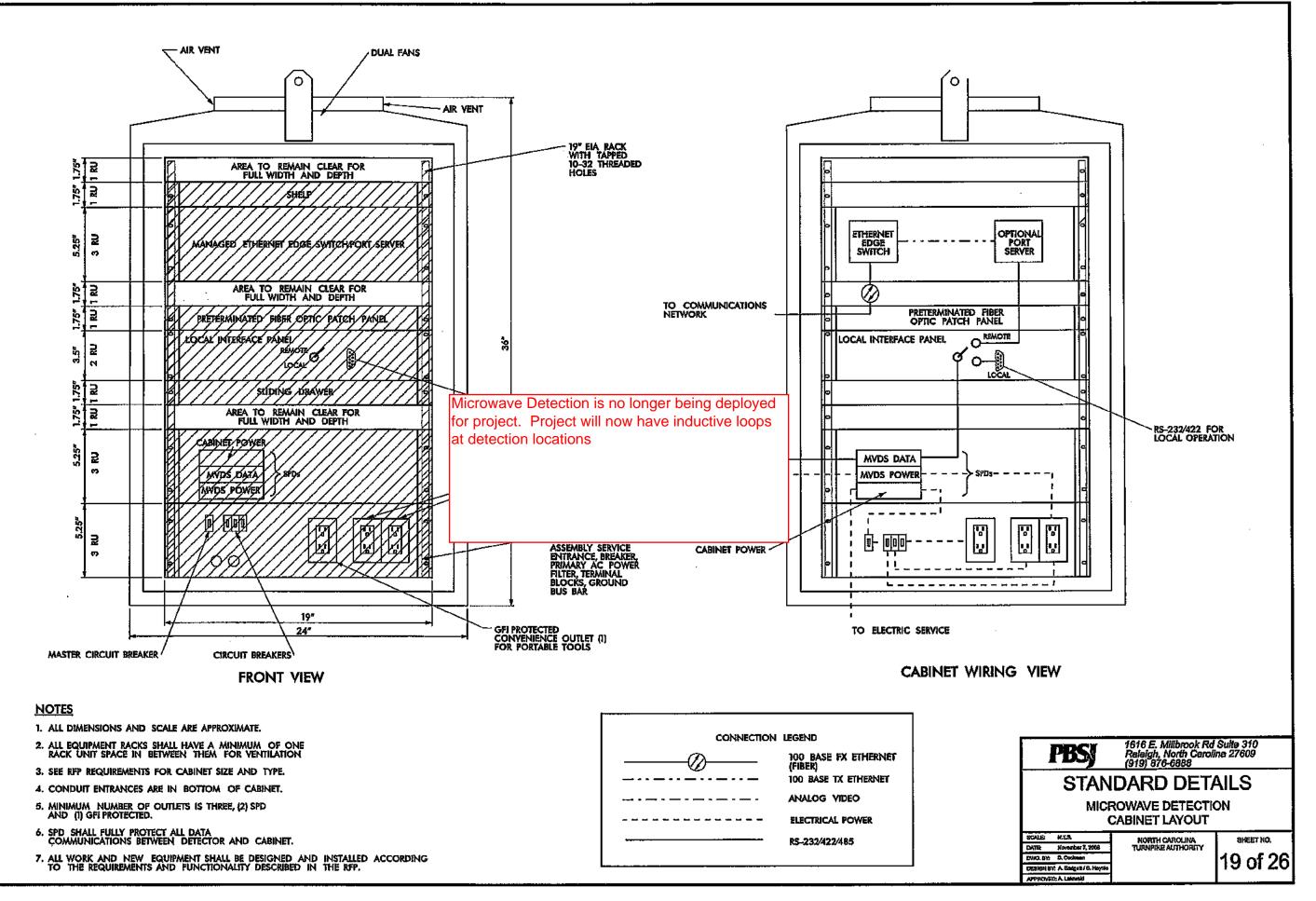
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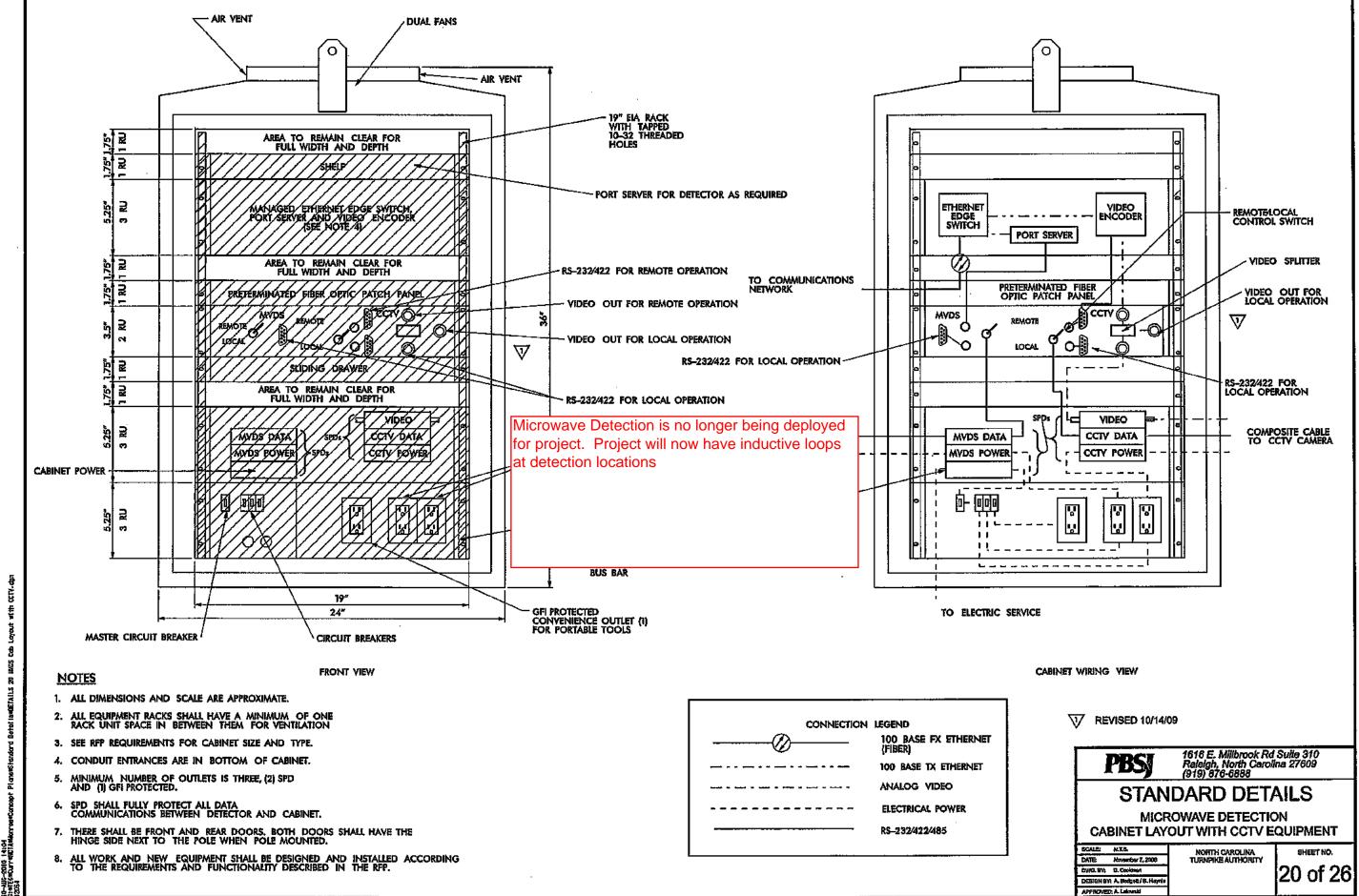


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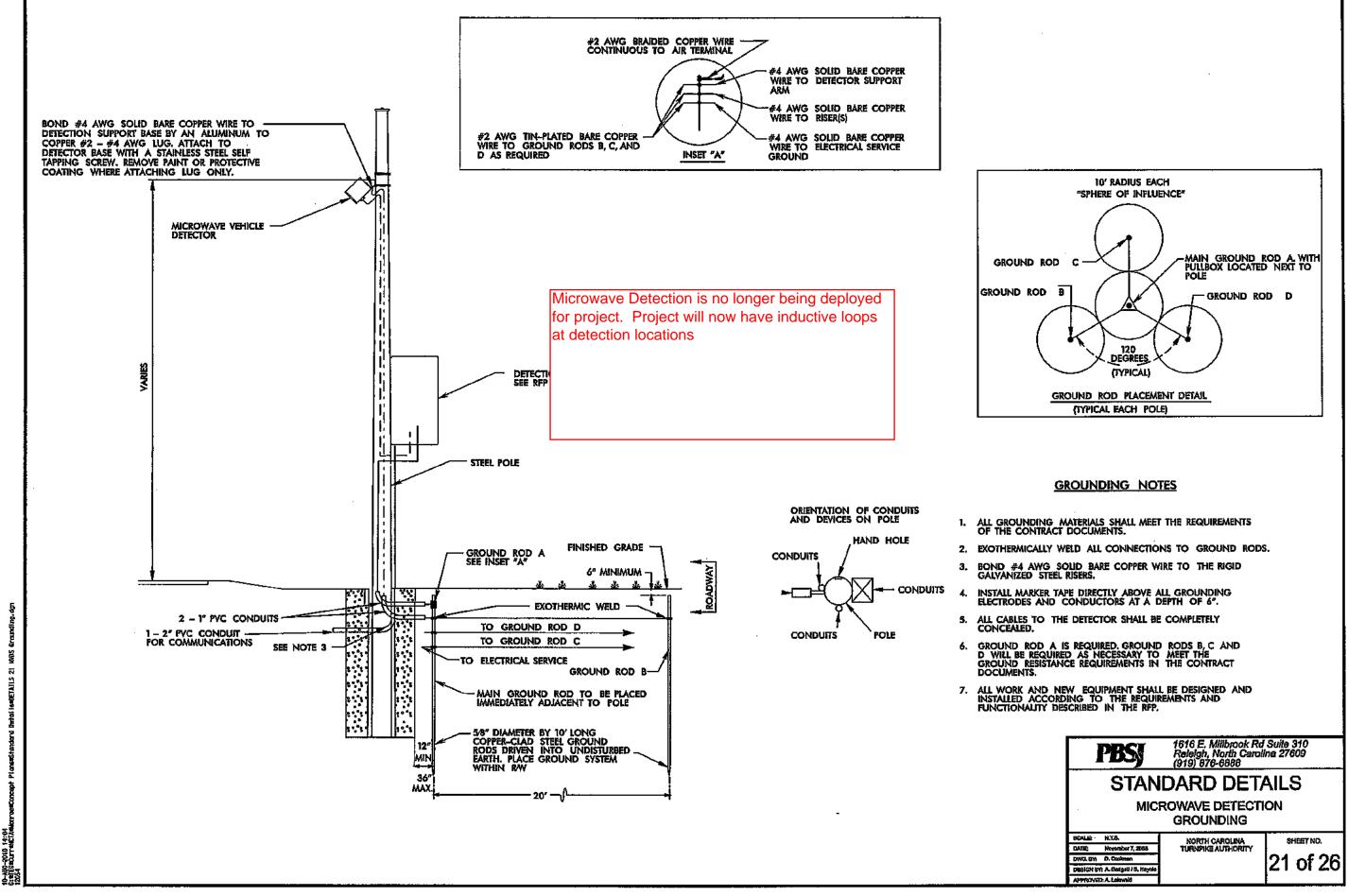


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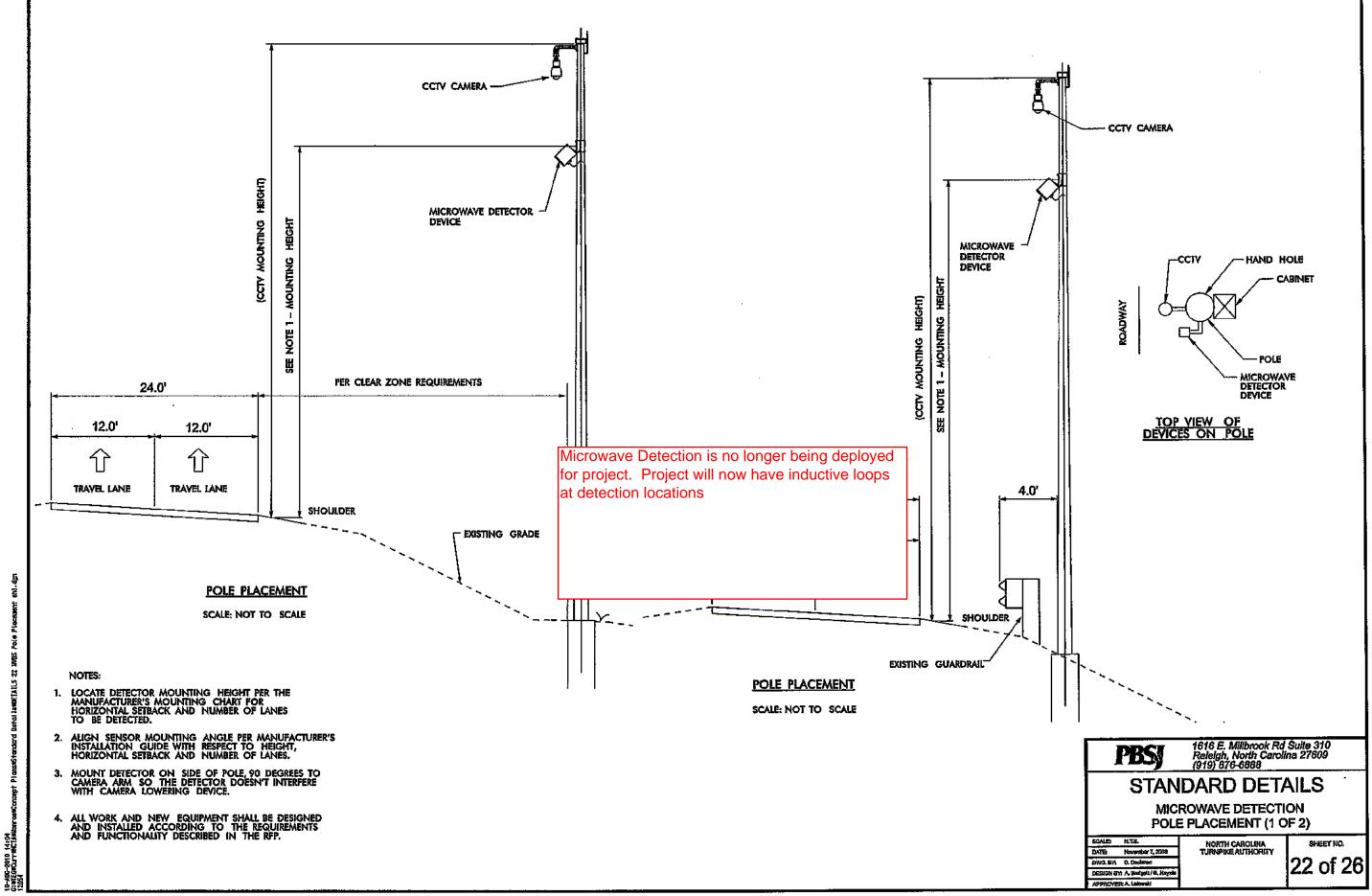
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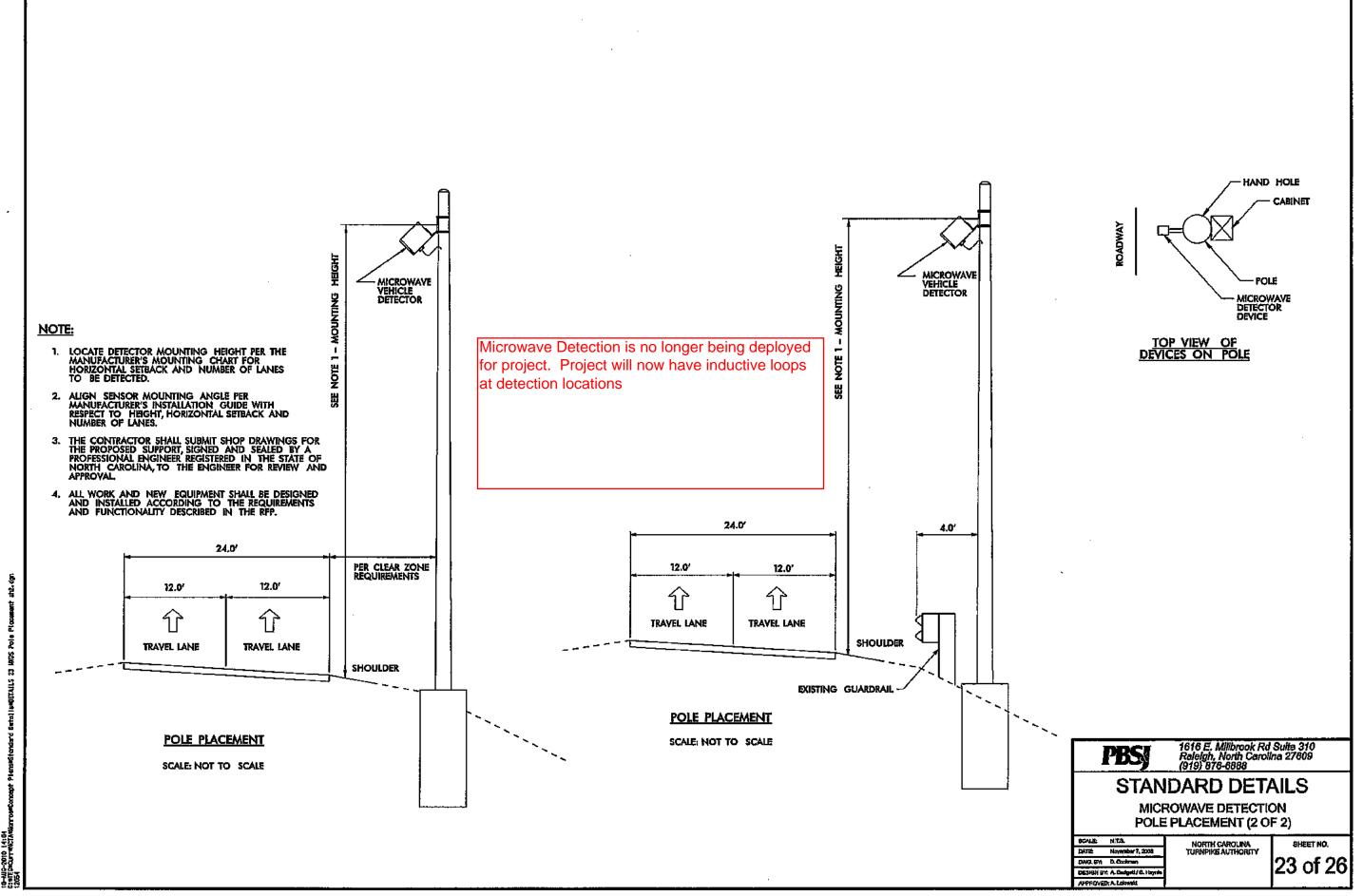


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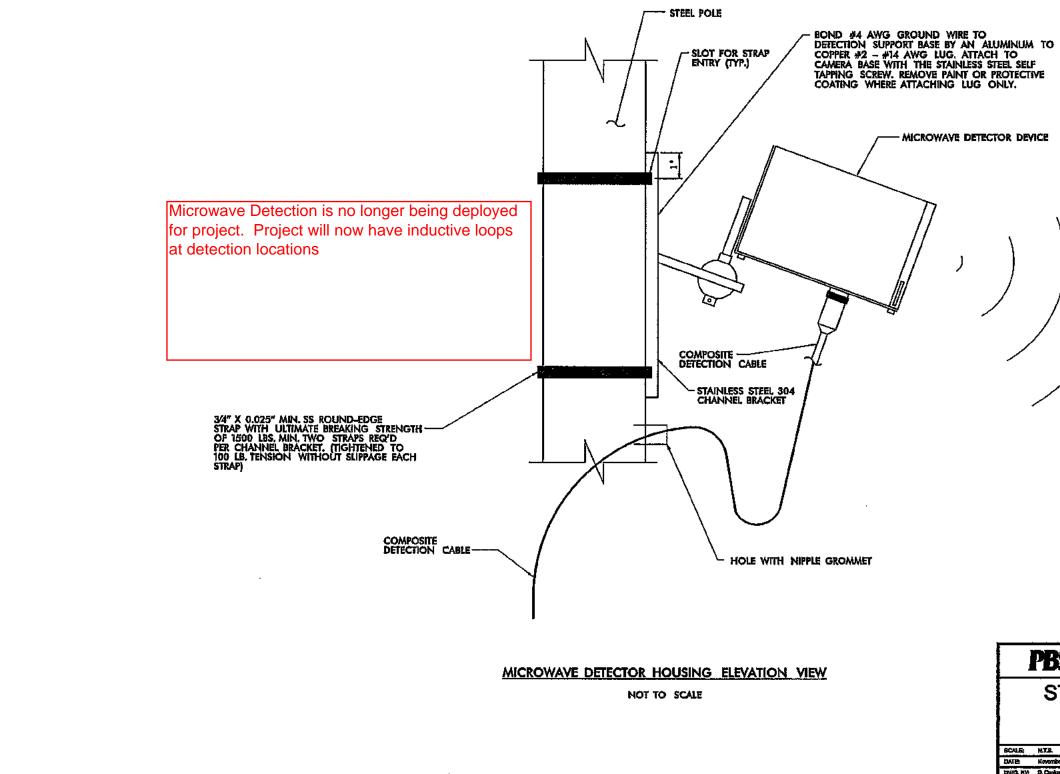
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1. NO FIELD WELDING SHALL BE PERMITTED.

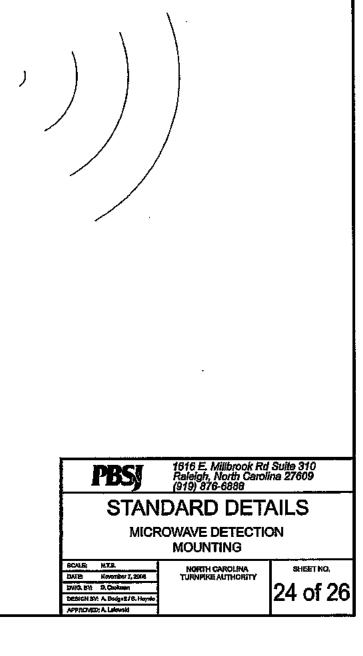
THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE PROPOSED SUPPORT, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA, TO THE ENGINEER FOR REVIEW AND APPROVAL.

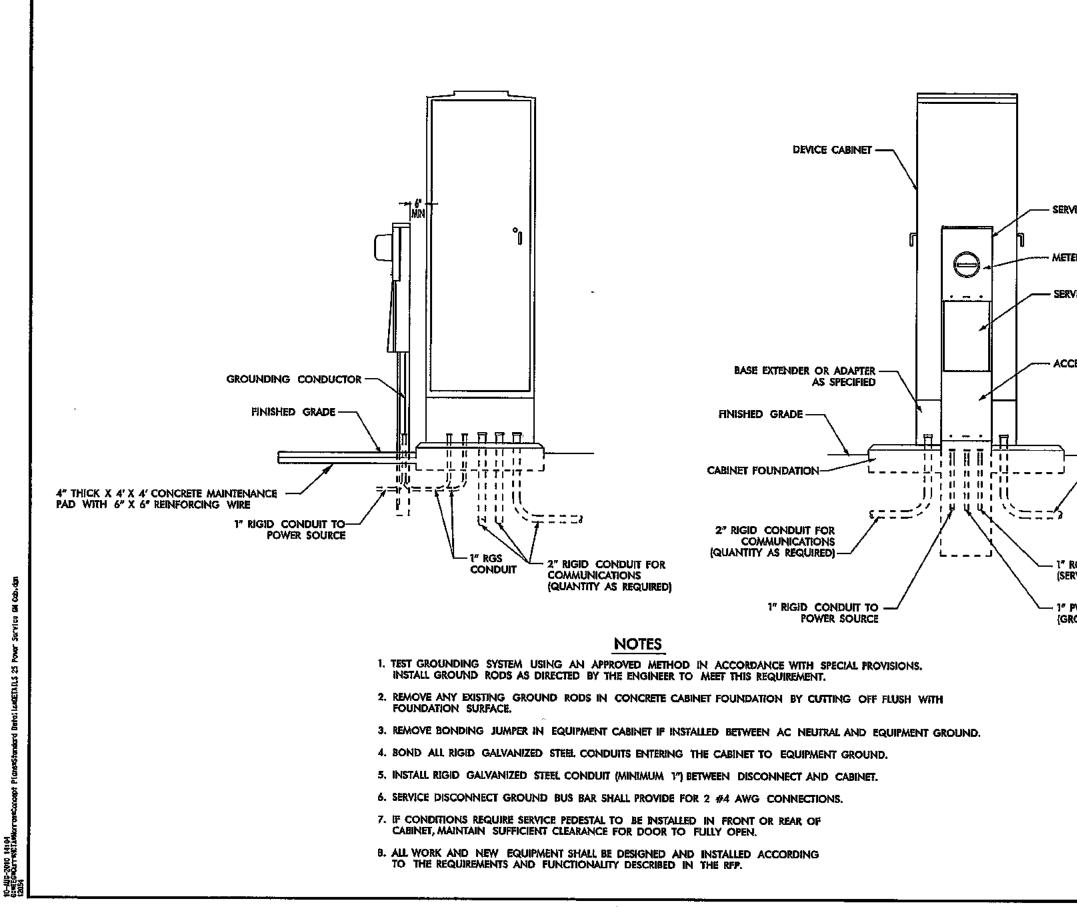
3. MOUNTING BRACKET CONNECTION TO POLE SHALL ALLOW ADJUSTMENT OF TILT ANGLE,

4. ALL WORK AND NEW EQUIPMENT SHALL BE DESIGNED AND INSTALLED ACCORDING TO THE REQUIREMENTS AND FUNCTIONALITY DESCRIBED IN THE RFP.



MICROWAVE DETECTOR DEVICE





SERVICE PEDESTAL (COMBINATION PANEL)

METER BASE

SERVICE DISCONNECT

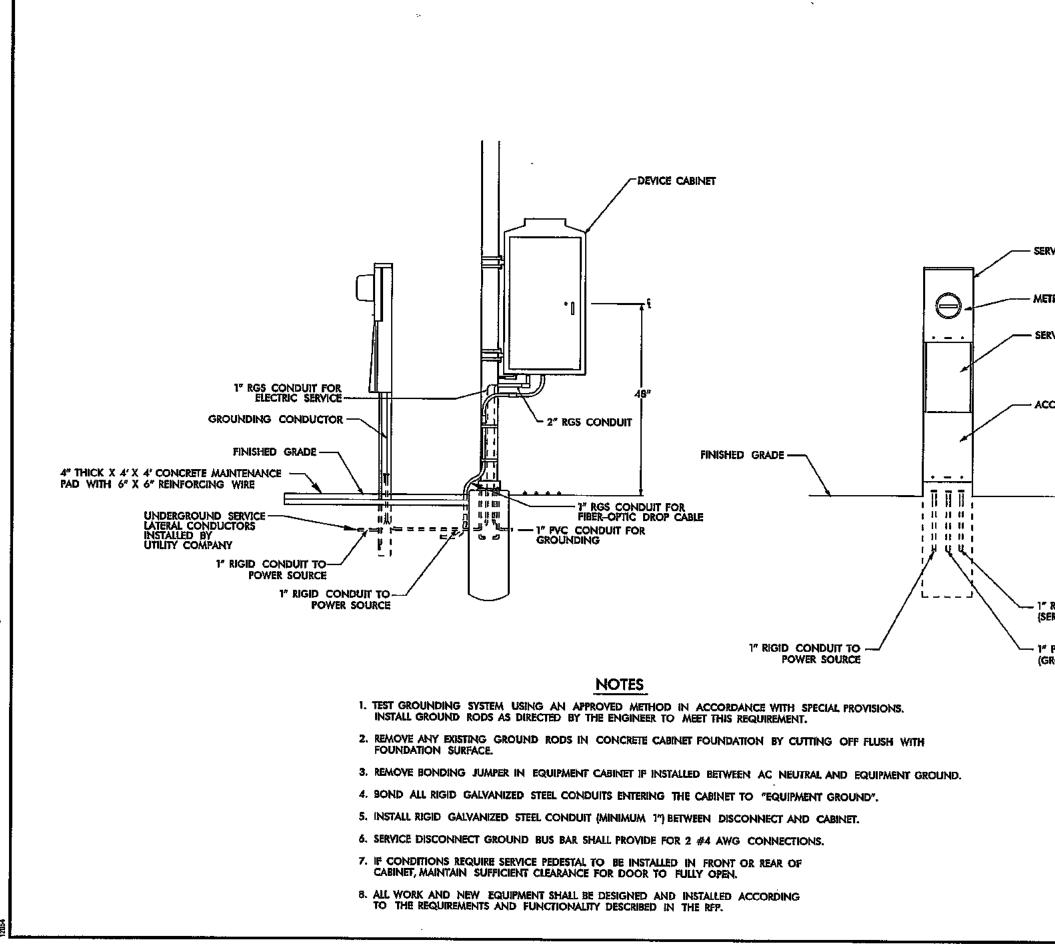
ACCESS PANEL

--- 2" RIGID CONDUIT FOR COMMUNICATIONS QUANTIFY AS REQUIRED)

1" RGS CONDUIT TO CABINET BASE (SERVICE CONDUCTORS)

1º PVC CONDUIT TO CABINET BASE (GROUNDING CONDUCTOR TO GROUND RODS)





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SERVICE PEDESTAL (COMBINATION PANEL)

METER BASE

SERVICE DISCONNECT

ACCESS PANEL

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1" RGS CONDUIT TO CABINET BASE (SERVICE CONDUCTORS)

1" PVC CONDUIT TO CABINET BASE (GROUNDING CONDUCTOR TO GROUND RODS)

