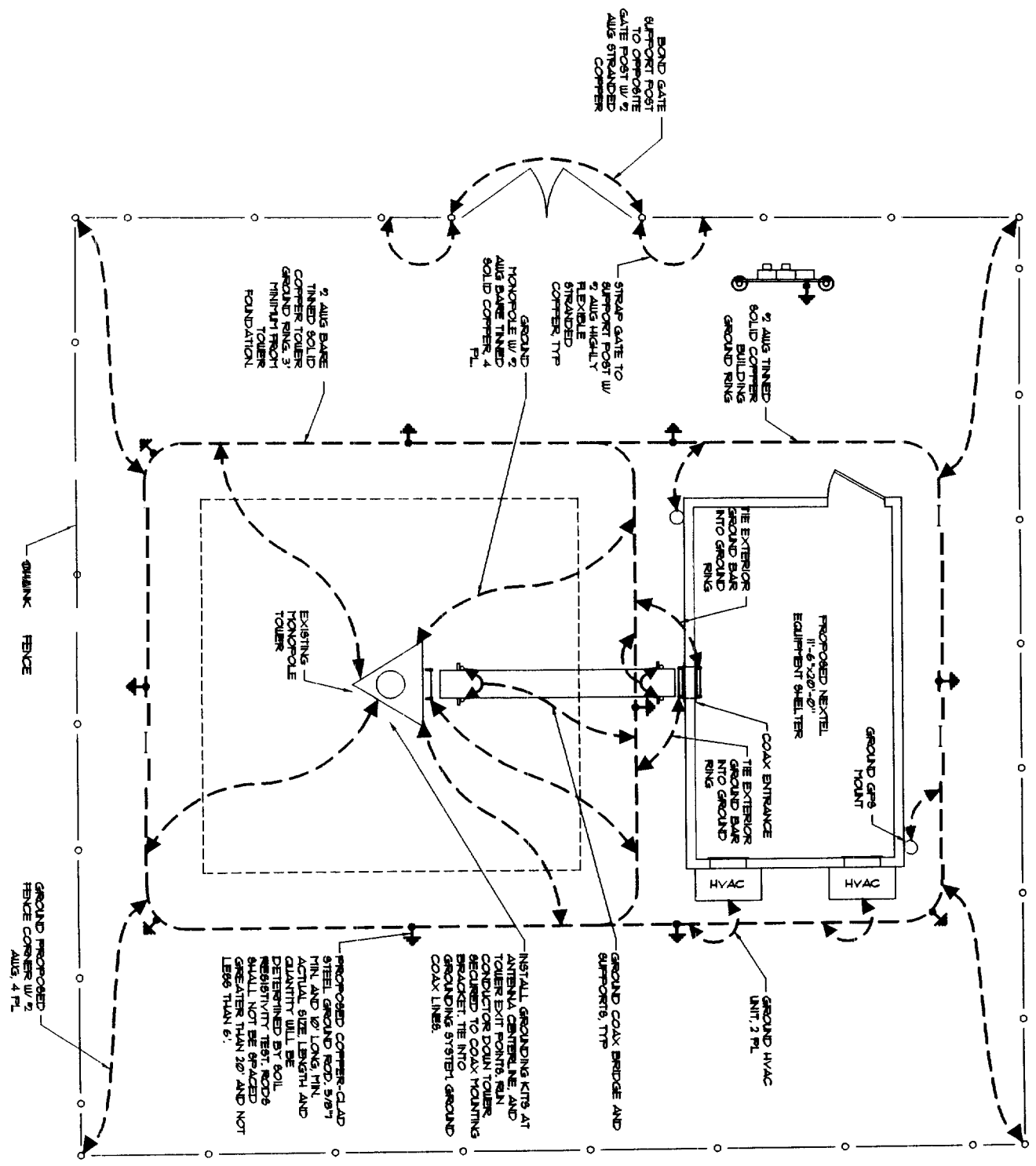
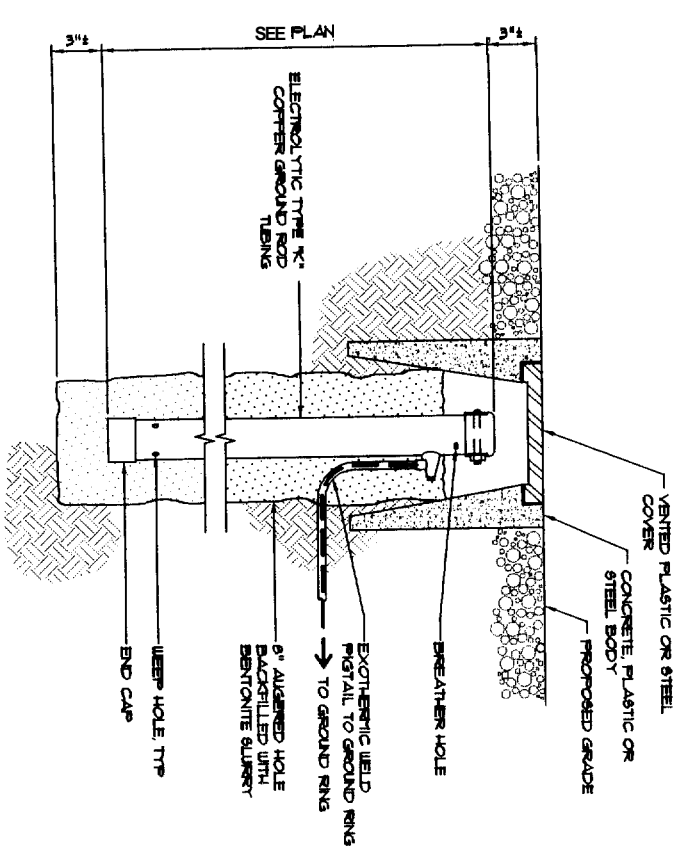


GROUNDING NOTES

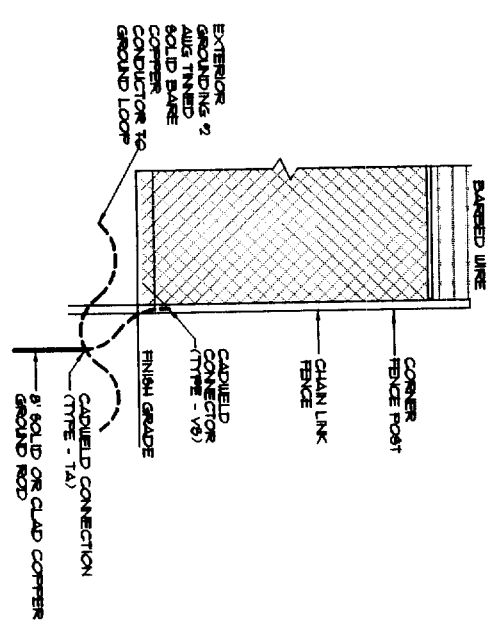
1. ALL DETAILS SHOWN OR SCHEMATIC ONLY. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. CONTRACTOR SHALL VERIFY WITH PE ENGINEER AND NEXTEL COMMUNICATIONS, INC. THE SPECIFIC GROUNDING SYSTEM APPROPRIATE FOR THE SITE BASED ON BEDROCK DEPTH AND SOIL CONDITIONS. THE CONTRACTOR SHALL USE ONE OF THESE SYSTEMS:
 - A. COPPER GROUND ROD SYSTEM
 - B. COPPER PLATE GROUND ROD SYSTEM
 - C. CHEMICAL GROUNDING AND TOP OF GROUNDING RODS SHALL BE BURIED TO A MINIMUM DEPTH OF 25 FEET BELOW FINISH GRADE WITH THE EXCEPTION OF THE ELECTRIC FETER GROUNDING ROD.
3. ALL EXTERIOR GROUNDING AND TOP OF GROUNDING RODS SHALL BE BURIED TO A MINIMUM DEPTH OF 25 FEET BELOW FINISH GRADE WITH THE EXCEPTION OF THE ELECTRIC FETER GROUNDING ROD.
4. ALL GROUNDING CONDUCTORS EXCEEDING UNDERGROUND SHALL BE 2" SOLID THINNED COPPER
5. GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS. REPORT AN INDEPENDENT FALL POTENTIAL TESTING REPORT.
6. NOTIFY CONSTRUCTION ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
 1. CHEMICAL GROUND SHALL BE XIT, CHEM-ROD OR APPROVED EQUAL WHEN REQUIRED.
 2. ALL UNDERGROUND GROUNDING CONDUCTORS ARE TO BE CABLED ABOVE GRADE GROUNDING SHALL BE EITHER CABLED OR MECHANICAL AS SPECIFIED ON DRAWING.
 3. ALL GROUNDING ARE TO BE INSTALLED A MINIMUM OF 2'-0" FROM SHEDS OR TOWERS
 4. ANY SCHEDULE 40 TETAL PIPE THAT PENETRATES THE GROUND SHALL BE CAD WELDED TO THE GROUND RING



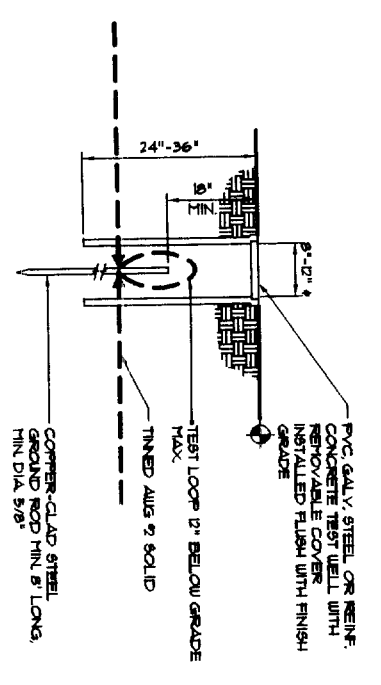
1 TYPICAL SITE COMPOUND GROUNDING PLAN
G1 NOT TO SCALE



2 ELECTROLYTIC GROUND ROD-VERTICAL
G1 NOT TO SCALE



3 TYP FENCE GROUNDING
G1 NOT TO SCALE



4 GROUND SYSTEM TESTING WELL
G1 NOT TO SCALE

NEXTEL
Communications
NEXTEL COMMUNICATIONS
OF THE MID-ATLANTIC, INC.
40 HARTWELL AVE
LEXINGTON, MA 02421-3132
Phone: (617) 839-5514
Fax: (617) 839-5916

Sebago Technics
Engineering & Planning for the Future
One Concord Street
Westbrook, MA 04097
Tel (207) 856-2205
Fax (207) 856-2206

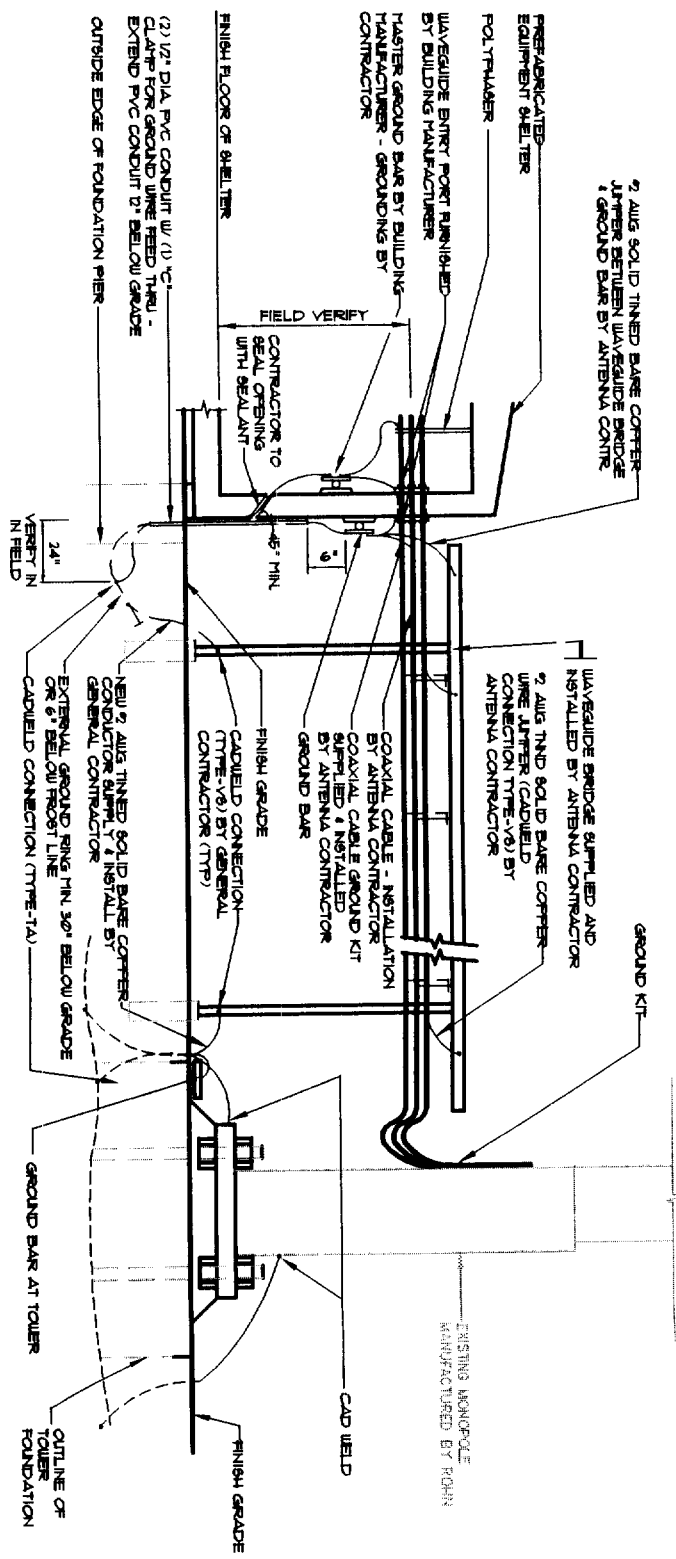
PROJECT NO.: 01058
DRAWN BY: JNB
CHECKED BY: JRS

REV.	DATE	STATUS
1	6-22-04	ISSUED FOR CD REVIEW

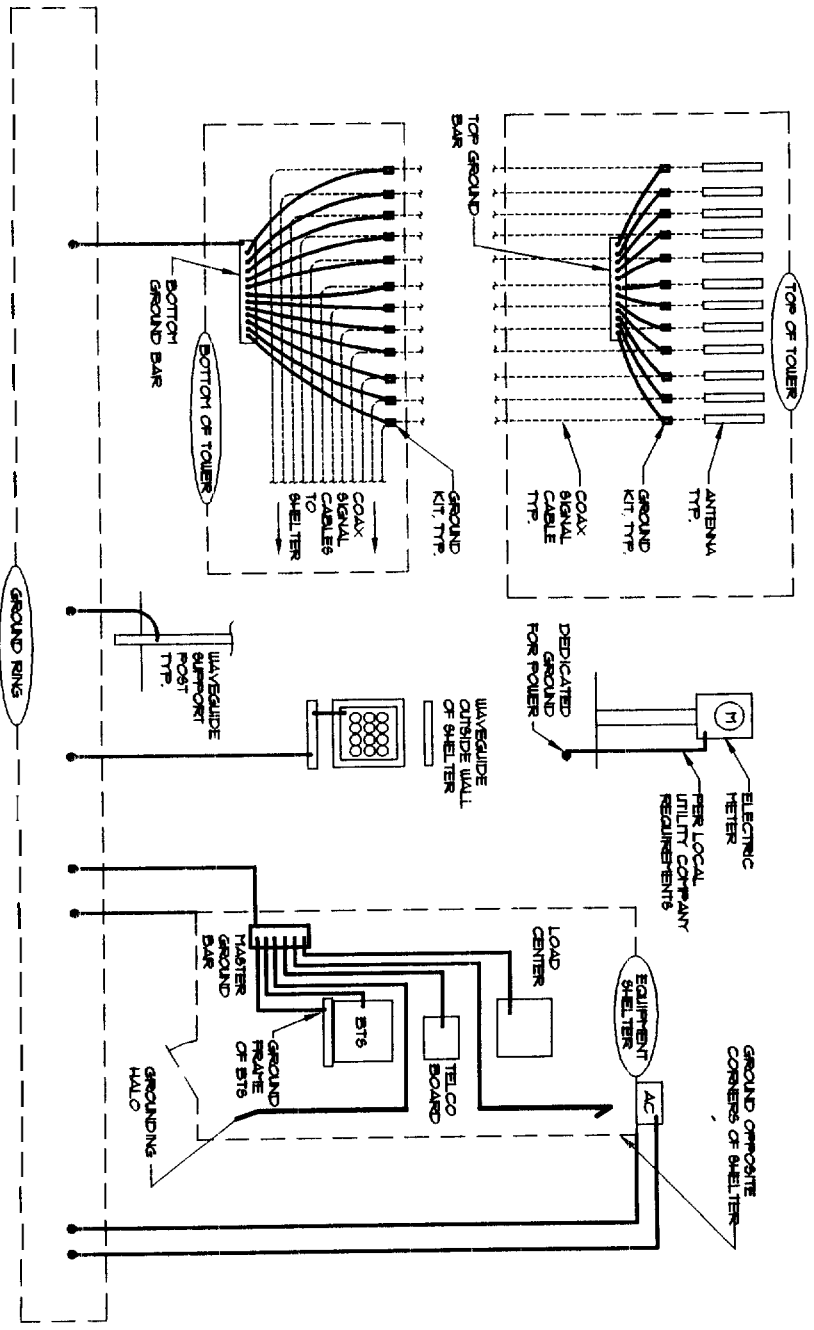
STATE OF MAINE
REGISTERED PROFESSIONAL ENGINEER
WILLIAM S. SEYMOUR
No. 9981

ME 1509-C
MORRILLS CORNER SITE
1340 RIVERSIDE ST
PORTLAND
CUMBERLAND COUNTY
MAINE

SHEET TITLE
GROUNDING DETAILS
SHEET NUMBER
G1



1 SCHEMATIC GROUNDING SECTION
G2 NOT TO SCALE

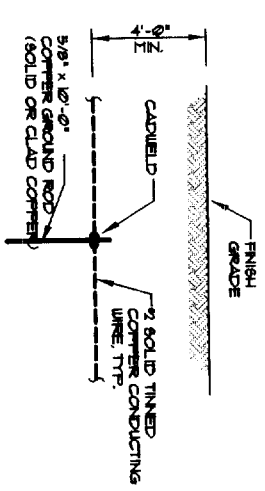


2 GROUNDING RISER DIAGRAM
G2 NOT TO SCALE

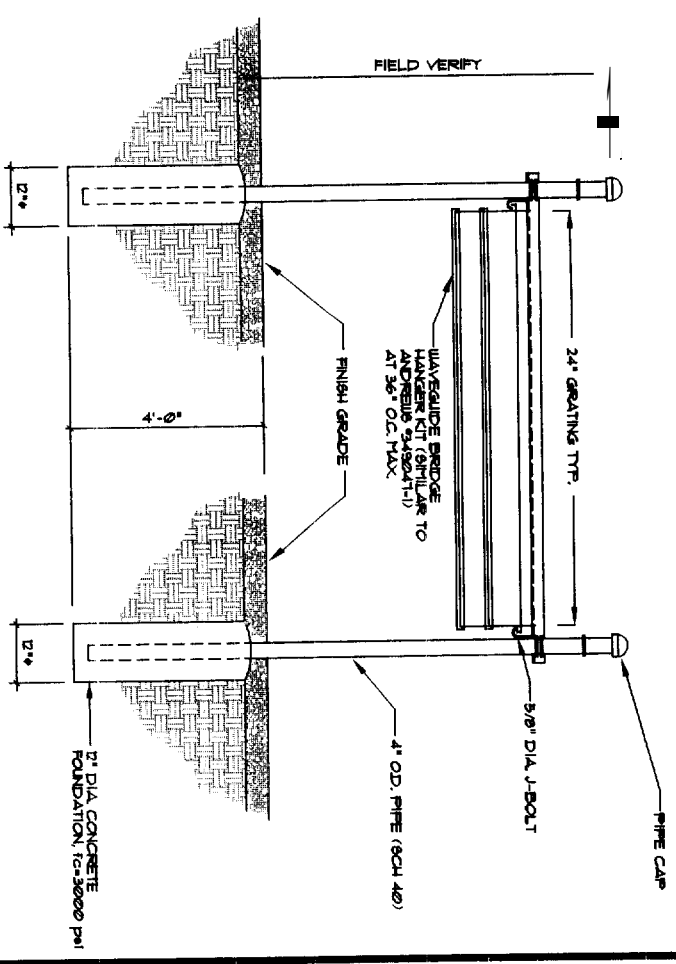
ITEM	SIZE	MATERIAL	APPROX. RUN LENGTH FT.
POWER	2"	REC/PVC	100'
TEL CO	4"	REC/PVC	100'
GROUND	2"	ALU/GALV	750'
GENERATOR	EG	N/A	N/A

* LENGTHS ARE ESTIMATES CONTRACTORS SHALL VERIFY IN FIELD

ELECTRICAL SYSTEM			
MAIN DISTRIBUTION		NEXTEL	
VOLTAGE	120/240V	VOLTAGE	240V
PHASE	SINGLE	PHASE	SINGLE
AMP'S	TBD	AMP'S	200 AMP



3 TYP. GROUNDING ROD
G2 NOT TO SCALE



4 TYP. WAVEGUIDE SUPPORT POST
G2 NOT TO SCALE

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PROJECT NO.: 01025
DRAWN BY: JMS
CHECKED BY: JMS

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STATE OF MAINE
JAMES R. SEYMOUR
REGISTERED PROFESSIONAL ENGINEER
9984

ME 1509-C
MORRILLS CORNER SITE
1340 RIVERSIDE ST
PORTLAND
CUMBERLAND COUNTY
MAINE

SHEET TITLE
GROUNDING DETAILS
SHEET NUMBER
G2

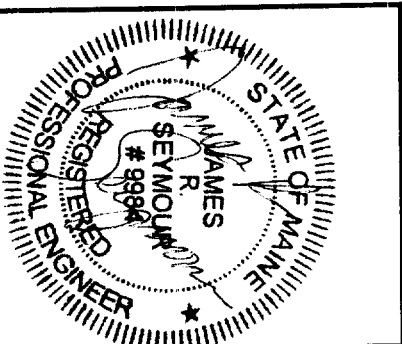
NEXTTEL
 Communications
**NEXTTEL COMMUNICATIONS
 OF THE MID-ATLANTIC, INC.**
 40 HARTWELL AVE
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PROJECT NO.: 01058
 DRAWN BY: JNB
 CHECKED BY: JRS

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ME 1509-C
MORRILLS CORNER SITE
 1340 RIVERSIDE ST
 PORTLAND
 CUMBERLAND COUNTY
 MAINE

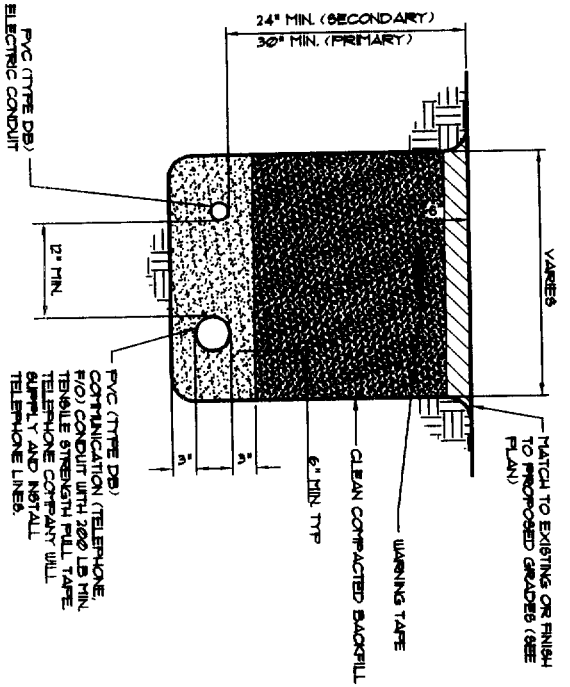
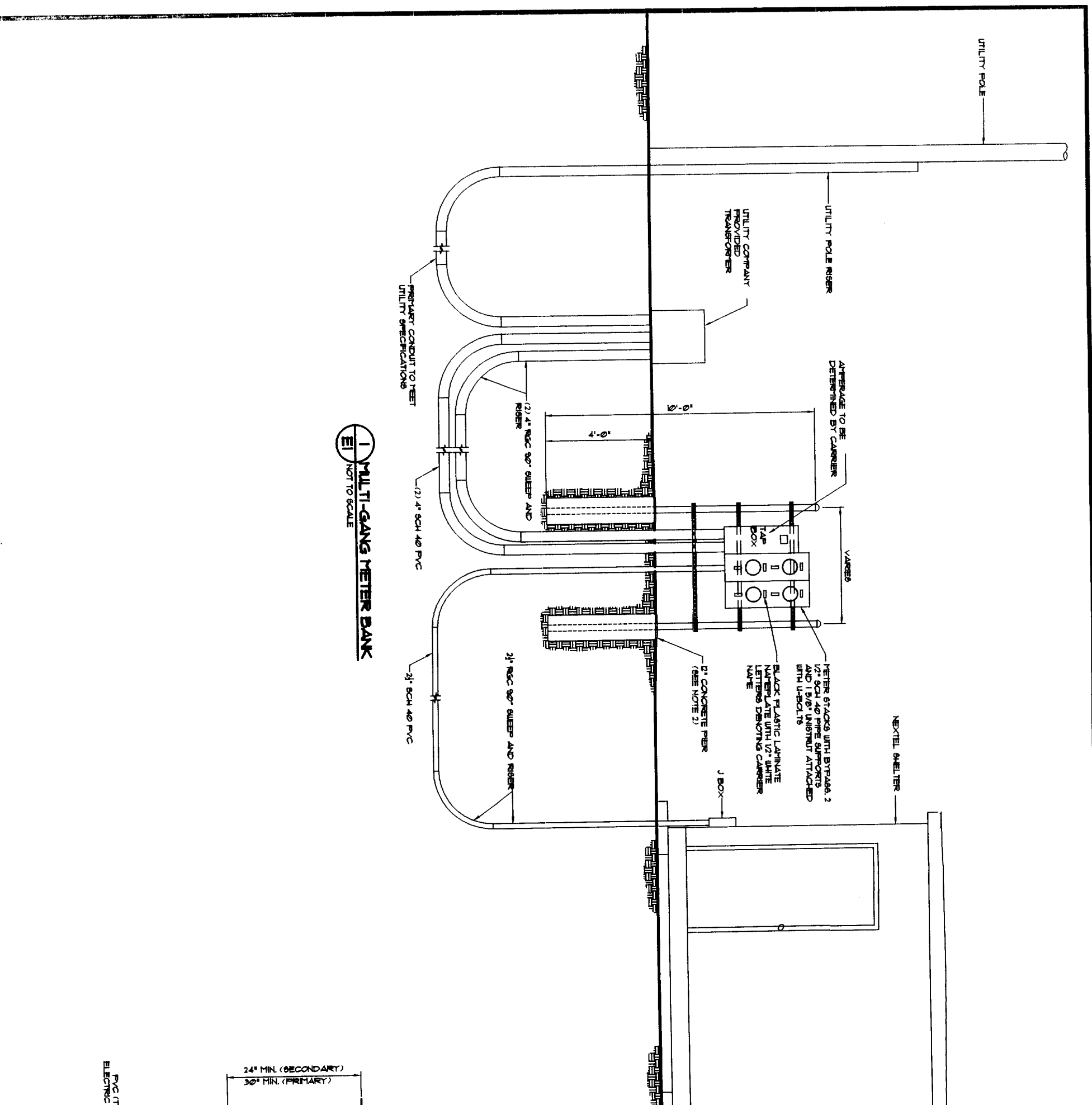
SHEET TITLE
ELECTRICAL DETAILS
 SHEET NUMBER
E1

METER BANK NOTES

- EXTERIOR STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION AND WELDING TO ASTM A523. HARDWARE SHALL BE EITHER A325 STEEL GALVANIZED TO ASTM A593, OR 18-8 STAINLESS.
- FOR SOIL INSTALL 12" DIAM 4'-0" DEEP PIER FILL WITH 3000 PSI CONCRETE. INSTALL TOP OF PIER WITH 3000 PSI CONCRETE. AND PROVIDE GROUT FOR DRAINAGE.
- FOR EXPOSED LEDGE OR BURIED LEDGE AT LEAST 3" DIA. 1/2" BEHOLD FINISH GRADE CORNER 9" DIA. HOLE INTO LEDGE 9" DEEP. FILL AROUND PIER WITH NON-SHARK GROUT. USE COAL TAR ON BURIED LENGTH OF PIER, AND BACKFILL TO FINISH GRADE.
- UTILITY COMPANY WILL PROVIDE AND INSTALL METER.
- POSITION METER ASSEMBLY WITHIN YARD TO AVOID VANDALISM DAMAGE. PROVIDE 3" MIN CLEARANCE IN FRONT OF METER BANK.

UNDERGROUND CONDUITS

DESIGNATION	SIZE, IN.
ELECTRIC	2 1/2"
COMMUNICATIONS	4"



2 UTILITY TRENCH
 NOT TO SCALE

1 MULTI-GANG METER BANK
 NOT TO SCALE