

NEXTEL SITE NAME: UVA EAST LAWN

NEXTEL SITE #: VA 063P-A

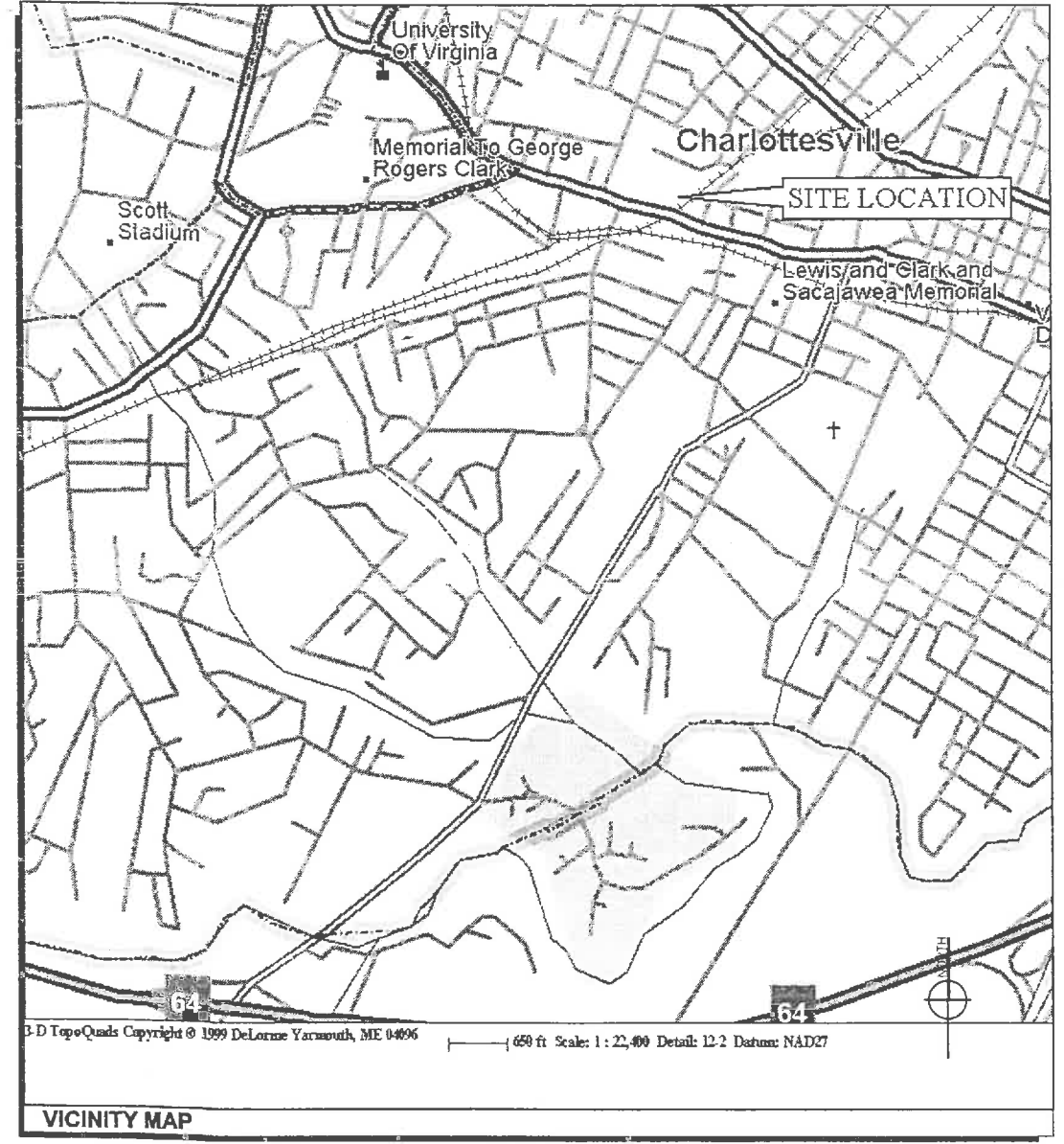
CROWN BU#

W. MAIN ST HWY 250 (At Market Square Buer)
CHARLOTTESVILLE, VIRGINIA 22911

AMARIBO
[Signature] 10/21/00

NEXTEL

221' SELF-SUPPORT LATTICE TOWER



A/C	AIR CONDITIONING	MGR	MANAGER
ADJ	ADJUSTABLE	MIN	MINIMUM
APPRX	APPROXIMATELY	MISC	MISCELLANEOUS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	N	NORTH
AWG	AMERICAN WIRE GAUGE	NA	NOT APPLICABLE
		NTS	NOT IN CONTRACT
BLDG	BUILDING	CC-O/D	ON CENTER
BLK	BLOCK	OO	OUTSIDE DIAMETER
BLR	BASE MOBILE RADIO	OPG	OPENING
B/S	BUILDING STANDARD	OPP	OPPOSITE
CLG	CEILING	PLYWD	PLYWOOD
CLR	CLEAR	PR	PAIR
CONC	CONCRETE	PROJ	PROJECT
CONST	CONSTRUCTION	PROP	PROPERTY
CONT	CONTINUOUS	PT	PRESSURE TREATED
DBL	DOUBLE	REQ'D	REQUIRED
DIA. #	DIAMETER	RM	ROOM
DIAG	DIAGONAL	RO	ROUGH OPENING
DN	DOWN	S	SOUTH
DTL/DETL	DETAIL	SHT	SHEET
DWG	DRAWING	SH	SIMILAR
E	EAST	SPEC	SPECIFICATION
EA	EACH	SO	SQUARE
ELEV	ELEVATION	SS	STAINLESS STEEL
ELECT	ELECTRICAL	STL	STEEL
EQ	EQUAL	STRUCT	STRUCTURAL
EQUIP	EQUIPMENT	SUSP	SUSPENDED
EW	EACH WAY	SV	SHEET VINYL
EXIST	EXISTING	THRU	THROUGH
EXT	EXTERIOR	TIND	TINNED
FIN	FINISH	TDC	TOP OF CONCRETE
FLUOR	FLUORESCENT	TCM	TOP OF MASONRY
FLR	FLOOR	T/F	TYPICAL
FT	FOOT	UBC	UNIFORM BUILDING CODE
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	VERT	VERTICAL
GC	GENERAL CONTRACTOR	VIF	VERIFY IN FIELD
GRND	GROUND	VT	VINYL TILE
GWB	GYPSONUM WALL BOARD	W	WEST
GYP	GYPSONUM BOARD	W/	WITH
		WIN	WINDOW
HARD'WD	HARDWOOD	W/O	WITHOUT
HORIZ	HORIZONTAL	WP	WATERPROOF
HR	HOUR		
HT	HEIGHT		
HVAC	HEATING, VENTING & AIR CONDITIONING		
ID	INSIDE DIA.	∠	ANGLE
IN	INCH	○	AND
INFO	INFORMATION	○	CENTER LINE
INSUL	INSULATION	○	PROPERTY LINE
INT	INTERIOR	AT	AT
INT	INTERIOR	○	NUMBER
LB(S)	POUND(S)		
MAX	MAXIMUM		
MECH	MECHANICAL		
MET, MTL	METAL		
MFR	MANUFACTURER		

△	REVISION	1-1	DETAIL REFERENCE
◇	KEY NOTE	1-1	ELEVATION REFERENCE
100	ROOM NUMBER	1-1	SECTION REFERENCE
22	KEYED NOTE		

ABBREVIATIONS AND SYMBOLS

ENGINEER CLOUGH, HARBOUR, AND ASSOCIATES LLP 571 SOUTHLAKE BLVD SUITE B RICHMOND, VA 23236 JOSEPH RAMIREZ - PROJECT ENGINEER (804) 897-3584 - Phone (804) 897-3586 - Fax
SURVEYOR PRECISION MEASUREMENTS 2118 DABNEY RD SUITE B5 RICHMOND, VA 23230 CONTACT: BRIAN LONG (804) 340-5229 - Phone
GENERAL CONTRACTOR CROWN COMMUNICATIONS, INC. 1308 MUNICIPAL ROAD ROANOKE, VA 24012 (540) 265-4192 (540) 265-5466 - Fax
CONSULTANT TEAM

PROJECT DESCRIPTION
THE PROJECT INCLUDES:
INSTALLATION OF 9'x18' SHELTER ON A 10'x20' CONCRETE PAD.
INSTALLATION OF (3) SECTORS, 3 ANTENNAS PER SECTOR. ANTENNAS TO BE MOUNTED AT 100' AGL ON EXISTING 150' SELF-SUPPORT TOWER.

SITE DIRECTIONS
TAKE I-581 WEST TO I-81 NORTH. TAKE I-81 NORTH TO I-84 EAST TO EXIT 120. GO NORTH ON SSR 631 FOR 2 MILES. MAKE A LEFT ON MAIN ST (SSR 250). GO APPROXIMATELY 2100 FT TOWER ON RIGHT SIDE OF STREET.

PROJECT DESCRIPTION	
SITE DIRECTIONS	
PROJECT MANAGER:	-
CONSTRUCTION MANAGER:	-
NETWORK OPERATIONS MANAGER:	-
NATIONAL DIRECTOR MANAGER:	-
APPROVED BY	SIGNATURE DATE

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, VICINITY MAP, SHEET INDEX
C-1	EXISTING CONDITIONS
C-2	SITE PLAN VIEW
C-3	ELEVATION VIEW
C-4	STRUCTURAL DETAILS
E-1	ELECTRICAL SITE PLAN
E-2	ELECTRICAL DETAILS
E-3	ELECTRICAL DETAILS
E-4	ELECTRICAL DETAILS
E-5	ELECTRICAL SPECIFICATIONS
E-6	ELECTRICAL SPECIFICATIONS
E-7	ELECTRICAL SPECIFICATIONS
SHEET INDEX	

SITE NAME UVA EAST LAWN	PARCEL NUMBER N/A
SITE NUMBER VA-063P-A	ZONING JURISDICTION CITY OF CHARLOTTESVILLE
SITE ADDRESS N. MAIN ST HWY 250 CHARLOTTESVILLE, VIRGINIA 22911	DEED BOOK & PAGE 237, 256
SITE OWNER/CONTACT NORFOLK SOUTHERN 110 FRANKLIN ST. ROANOKE, VA 24011 (540) 981-4000	FEMA FLOOD PLANE N/A
APPLICANT NEXTEL PARTNERS INC. 4500 CARLTON POINT KIRKLAND, WA 98033	
GENERAL INFORMATION LATITUDE - 38° 1' 58" LONGITUDE - 78° 29' 31" ELEVATION - 221± (AMSL)	
POWER COMPANY AMERICAN ELECTRIC POWER 800-956-4237	
TELEPHONE COMPANY VERIZON 804-554-8611 OR 804-985-8611	
PROJECT SUMMARY	

RELEASE		
DATE	ISSUED FOR REVIEW	
09/28/00	ISSUED FOR REVIEW	
REVISIONS		
NO.	DATE	ISSUED FOR REVIEW
△	10/3/00	ISSUED FOR REVIEW
△		
△		
△		

DRAWN BY: QCB
CHECKED BY: JR

SITE NAME

UVA EAST LAWN

SITE NUMBER

NEXTEL SITE# - VA 063P-A

SITE ADDRESS

**N. MAIN ST HWY 250
CHARLOTTESVILLE, VA 22911**

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

PLOT SCALE AS SHOWN

RELEASE	
DATE	ISSUED FOR REVIEW
09/25/00	

REVISIONS		
NO.	DATE	FINAL CO'S
1	10/3/00	
2		
3		
4		

DRAWN BY: QCB
CHECKED BY: JR

SITE NAME

UVA EAST LAWN

SITE NUMBER

NEXTEL SITE# - VA 063A

SITE ADDRESS

**N. MAIN ST HWY 250
CHARLOTTESVILLE, VA 22911**

SHEET TITLE

SITE PLAN VIEW

SHEET NUMBER

C-2

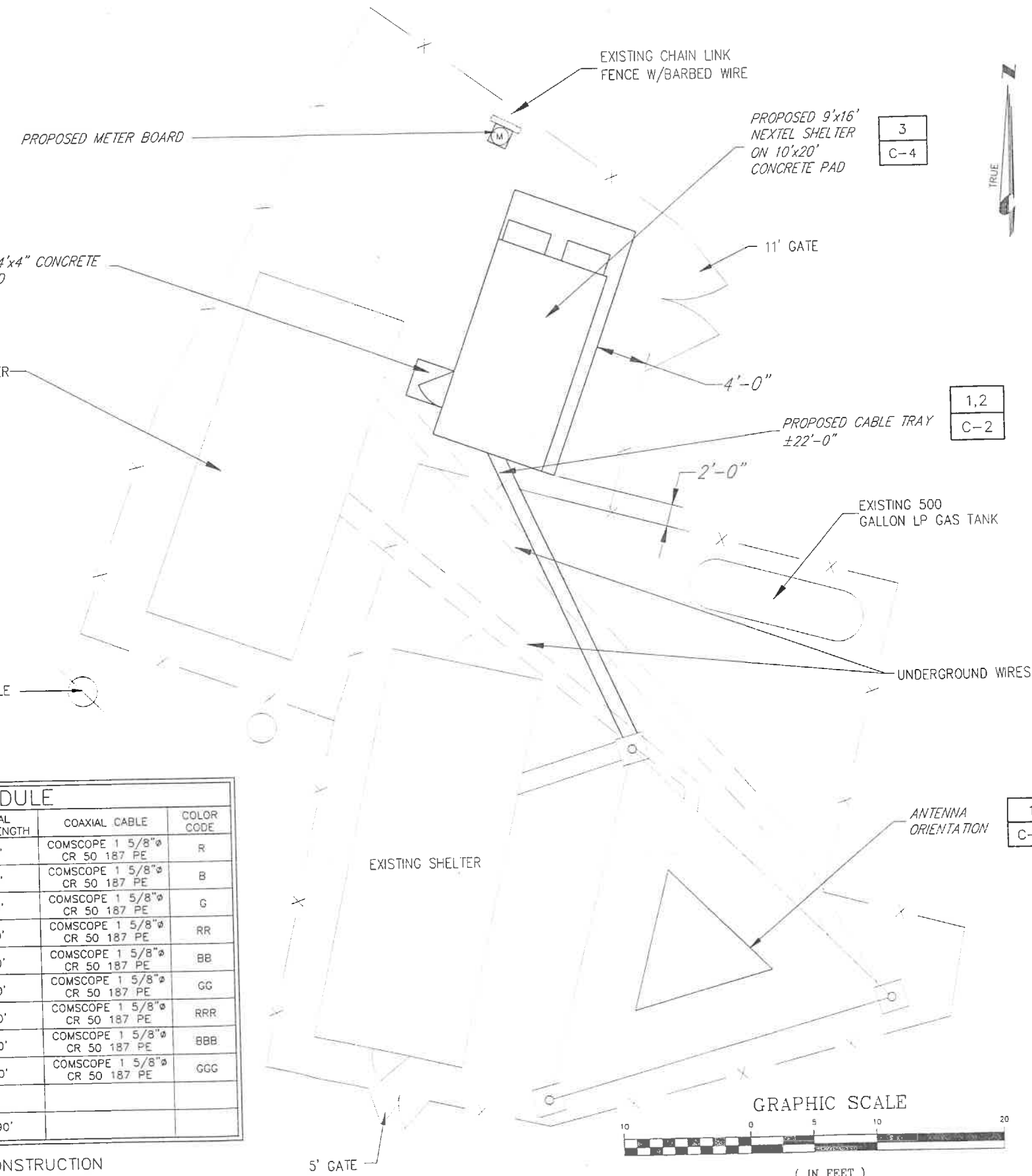
PLOT SCALE: AS SHOWN

GENERAL NOTES:

THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, (MISS UTILITY) CALL 1-800-257-7777, M-F 0700-1700 OR, (MISS UTILITY OF DELMARVA) CALL 1-800-282-8555, M-F 0700-1700

NOTES:

1. ALL ANTENNAS TO BE FURNISHED WITH EMS MTG-D10-20 DOWN TILT BRACKETS. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT FOR EACH ANTENNA WITH RF ENGINEER. ANTENNA DOWNTILT SHALL BE SET AND VERIFIED BY A SMART LEVEL.
2. PROVIDE COMMSCOPE 540 NMMN-6 JUMPER CABLE 6'-0" MAXIMUM LENGTH FROM ANTENNA TO MAIN COAXIAL CABLE.
3. ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO 0.0'.
4. DOWNTILTS TO BE VERIFIED WITH NEXTEL PRIOR TO CONSTRUCTION.



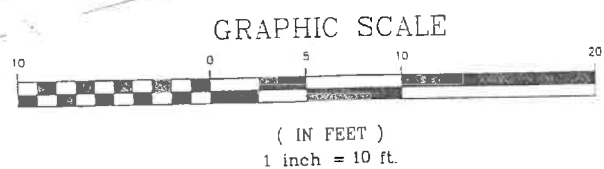
ANTENNA AND COAXIAL CABLE SCHEDULE

ANTENNA MARK	SECTOR	ANTENNA	COAXIAL CABLE FEED LOCATION	DOWN-TILT*	AZIMUTH	ANTENNA CL HEIGHT	COAXIAL CABLE LENGTH	COAXIAL CABLE	COLOR CODE
A-1	1	RWA-80015 DIN PANEL (96.5"x11.6"x6.3")	BOTTOM	0°	0°	160'	210'	COMSCOPE 1 5/8" CR 50 187 PE	R
A-2	1	RWA-80015 DIN PANEL (96.5"x11.6"x6.3")	BOTTOM	0°	0°	160'	210'	COMSCOPE 1 5/8" CR 50 187 PE	B
A-3	1	RWA-80015 DIN PANEL (96.5"x11.6"x6.3")	BOTTOM	0°	0°	160'	210'	COMSCOPE 1 5/8" CR 50 187 PE	G
B-1	2	RWA-80015 DIN PANEL (96.5"x11.6"x6.3")	BOTTOM	0°	120°	160'	210'	COMSCOPE 1 5/8" CR 50 187 PE	RR
B-2	2	RWA-80015 DIN PANEL (96.5"x11.6"x6.3")	BOTTOM	0°	120°	160'	210'	COMSCOPE 1 5/8" CR 50 187 PE	BB
B-3	2	RWA-80015 DIN PANEL (96.5"x11.6"x6.3")	BOTTOM	0°	120°	160'	210'	COMSCOPE 1 5/8" CR 50 187 PE	GG
C-1	3	RWA-80015 DIN PANEL (96.5"x11.6"x6.3")	BOTTOM	0°	240°	160'	210'	COMSCOPE 1 5/8" CR 50 187 PE	RRR
C-2	3	RWA-80015 DIN PANEL (96.5"x11.6"x6.3")	BOTTOM	0°	240°	160'	210'	COMSCOPE 1 5/8" CR 50 187 PE	BBB
C-3	3	RWA-80015 DIN PANEL (96.5"x11.6"x6.3")	BOTTOM	0°	240°	160'	210'	COMSCOPE 1 5/8" CR 50 187 PE	GGG
TOTAL LENGTH							1890'		

* DOWNTILT TO BE VERIFIED WITH NEXTEL PRIOR TO CONSTRUCTION

2 ANTENNA & COAX SCHEDULE
C-2 NO SCALE

1 SITE PLAN
C-2 SCALE: 1"=10'



CHA
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CLOUGH, HARBOUR & ASSOCIATES LLP
 ENGINEERS & PLANNERS
 571 SOUTH LAKE BLVD. - RICHMOND, VIRGINIA - 23258
 STATE # 004-887-3364
 CHA Project No. 9515.55.38



RELEASE	
DATE	ISSUED FOR REVIEW
08/26/00	ISSUED FOR REVIEW

REVISIONS		
NO.	DATE	ISSUED FOR REVIEW
1	10/3/00	ISSUED FOR REVIEW
2		
3		
4		

DRAWN BY: QCB
 CHECKED BY: JR

SITE NAME

UVA EAST LAWN

SITE NUMBER

NEXTEL SITE# - VA 063P-A

SITE ADDRESS

**N. MAIN ST HWY 250
 CHARLOTTESVILLE, VA 22911**

SHEET TITLE

ELEVATION VIEW

SHEET NUMBER

C-3

PLOT SCALE: AS SHOWN

GENERAL NOTES

- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- CONTRACTOR SHALL SUPPORT STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED.
- DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.

DESIGN DATA

- LIVE LOADS
 WIND LOADS: PER EIA/TIA F-222 = 70 MPH
 ICE LOADS: 1/2" RADIAL ON ALL COMPONENTS & CABLE
 SNOW LOAD: PER VIRGINIA UNIFORM STATE BUILDING CODE.
 SEISMIC LOADS: PER VIRGINIA UNIFORM STATE BUILDING CODE.
- DEAD LOADS
 PREFABRICATED SHELTER 25000#

ANTENNA SUPPORT BRACKET NOTES

- DESIGN RESPONSIBILITY OF ANTENNA MOUNTING BRACKETS AND POLES AND ALL COMPONENTS THEREOF AND ATTACHMENT THERETO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MFR SHALL PROVIDE TO THE ENGINEER FOR APPROVAL, DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA. ALL SUBMISSIONS SHALL BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE THE WORK IS BEING PERFORMED.
- BRACKETS SHALL BE DESIGNED TO SUPPORT CURRENT AND FUTURE PANEL ANTENNA COAXIAL CABLES AS SHOWN.

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- ALL INTERIOR STRUCTURAL STEEL USED SHALL BE, WHEN DELIVERED, FINISHED WITH ONE COAT FABRICATOR'S NON-LEAD, RED OXIDE PRIMER. PRIMING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE PRIMED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A36 UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- CONNECTIONS:
 - ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
 - BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
 - NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
 - CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.

CONCRETE NOTES

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1.5%) WITH A MAXIMUM 4" SLUMP. CONCRETE SAMPLES SHALL BE TAKEN FROM EACH CONCRETE BATCH. THREE SAMPLES SHALL BE PREPARED ONE FOR A 7-DAY TEST HAVING A MIN. COMPRESSIVE STRENGTH 4,000 PSI, ONE FOR A 28-DAY TEST HAVING A MIN COMPRESSIVE STRENGTH OF 4,000 PSI. AND ONE SPARE.
- MAXIMUM AGGREGATE SIZE SHALL BE 1".
- THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 185
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADMIXTURES:	NON-CHLORIDE CONTAINING
- REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

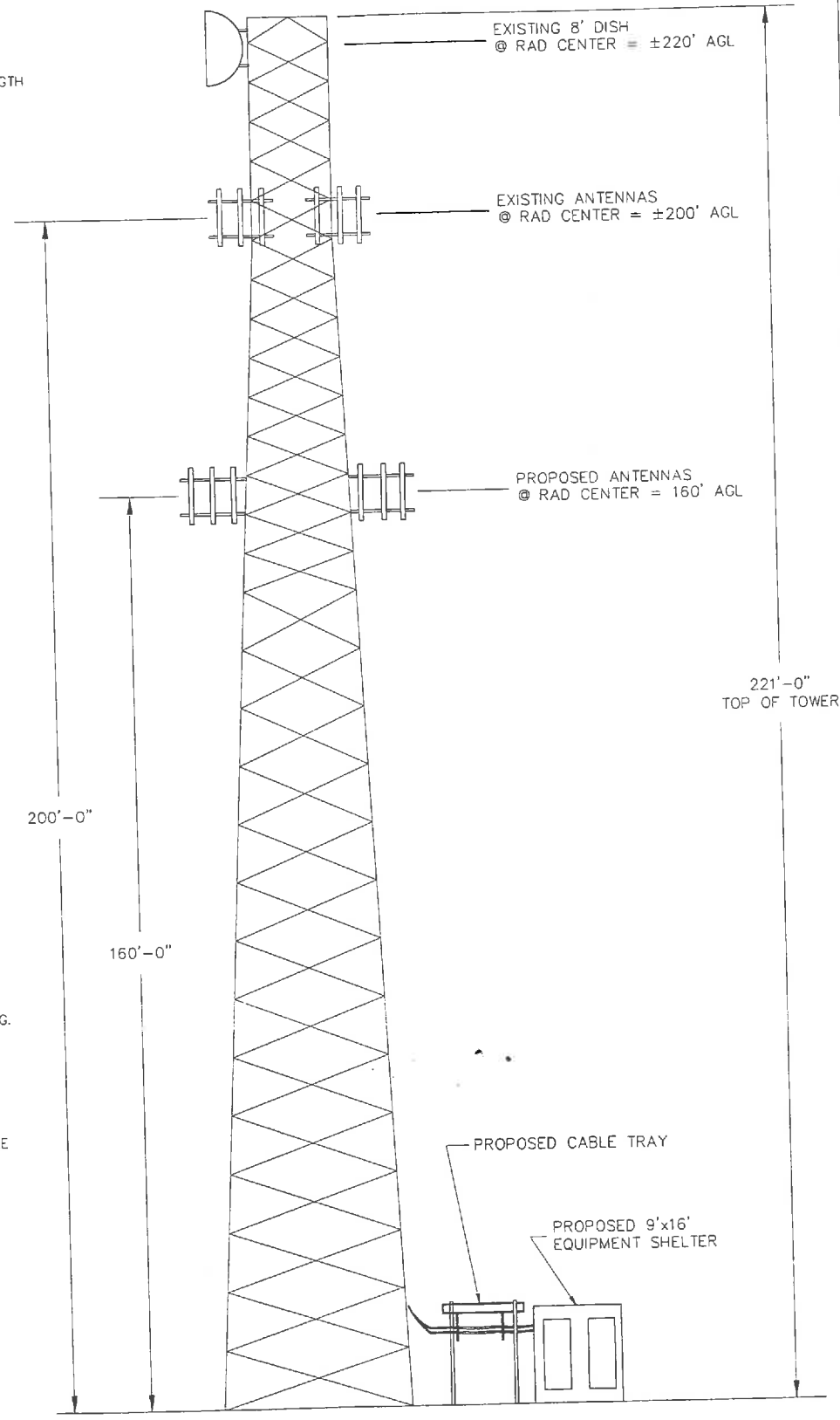
CONCRETE CAST AGAINST EARTH.....	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 AND LARGER	2 IN.
#5 AND SMALLER & WWF	1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:	
SLAB AND WALL	3/4 IN.
BEAMS AND COLUMNS	1 1/2 IN.
- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE ANCHOR, SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- CURING COMPOUNDS SHALL CONFORM TO ASTM C-309.
- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301.
- DO NOT WELD OR TACKWELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
- DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
- FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.

NOTES

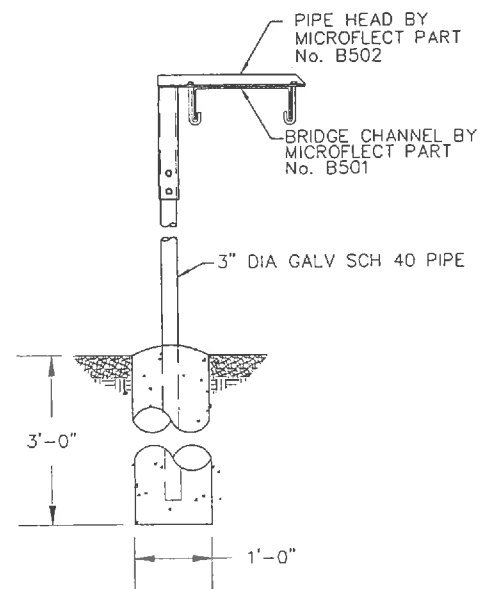
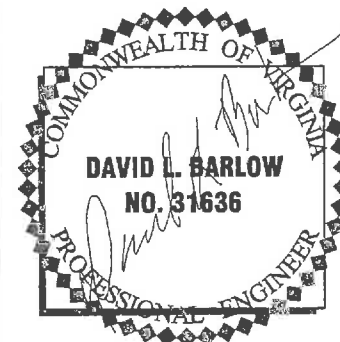
- ALL ANTENNAS TO BE FURNISHED WITH DOWNLIFT BRACKETS. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNLIFT FOR EACH ANTENNA WITH RF ENGINEER.
- ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 80'
- CHECK WITH RF ENGINEER FOR LATEST ANTENNA TYPE & AZIMUTH
- CONTRACTOR SHALL VERIFY ANTENNA TYPE AND AZIMUTH WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOT INSTALL COLD DRAIN ROP INSULATORS UNTIL AFTER CABLES HAVE BEEN SWEPT.
- THE COAXIAL CABLE SHALL NOT EXCEED 100' BETWEEN GROUND KITS.
- THE USE OF ALTERNATE GROUNDING MEANS (SUCH AS LYNDOLE KIT) SHALL COMPLY WITH IEEE CONSTRUCTION SPECIFICATIONS & INSTALLATION PRACTICES.

THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED TO CLOUGH, HARBOUR & ASSOCIATES, LLP BY NEXTEL AND THE TOWER OWNER ASSUME ALL LIABILITY FOR ALL STRUCTURAL ANALYSIS, INTEGRITY AND REQUIRED IMPROVEMENTS OF AND TO THE EXISTING TOWERS, EXISTING STRUCTURES, AND EXISTING SUPPORTS.

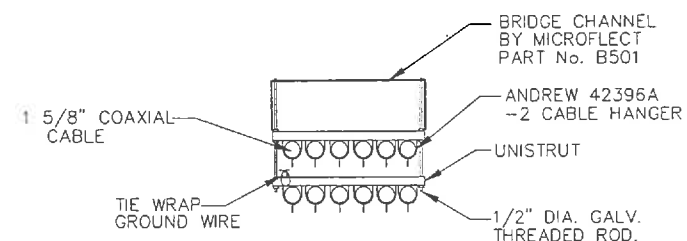
COAXIAL CABLE SCHEDULE			
DIAMETER	CABLE LENGTH	#8 LOSS / 1000'	MIN BENDING RADIUS
1/2" FLEX	0.0' - 10.0'	51	125"
1/2"	0.0' - 50.0'	35	50"
7/8"	51.0' - 100.0'	1.95	10.0'
1 1/4"	101.0' - 150.0'	1.55	15.0'
1 5/8"	151.0' - 250.0'	1.25	20.0'



1 TOWER ELEVATION
 C-3 SCALE: NTS

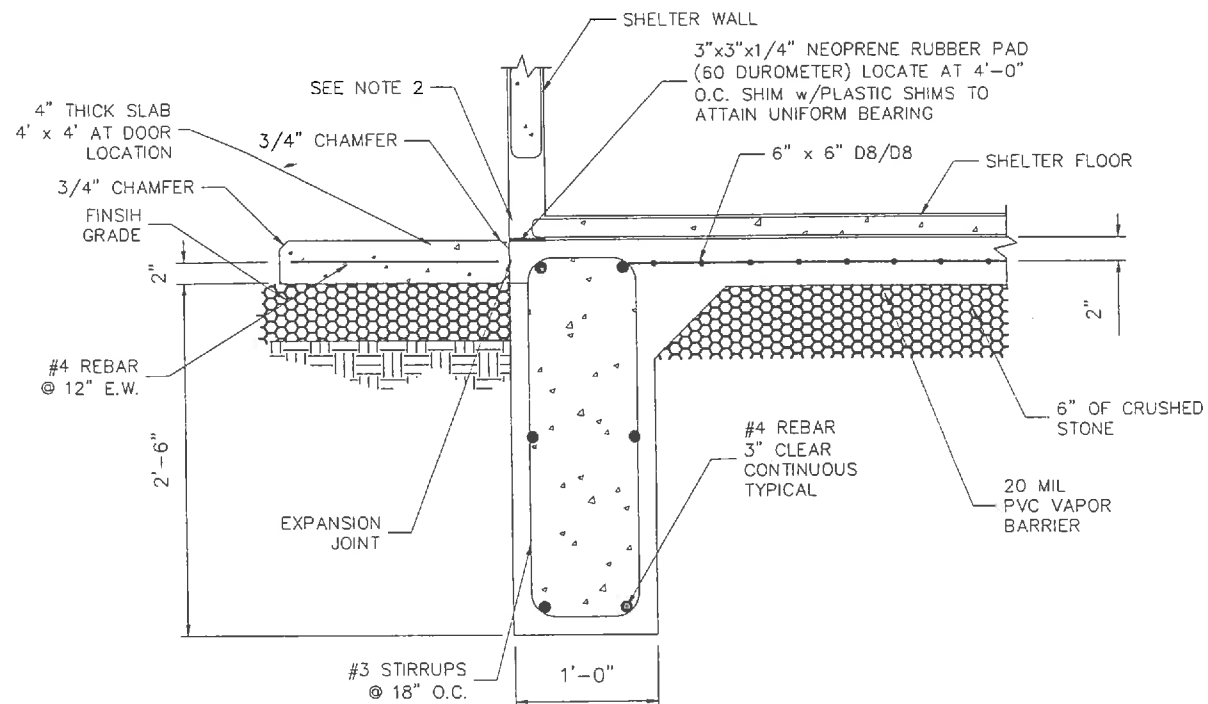


1 CABLE TRAY SUPPORT POST
C-2 NO SCALE



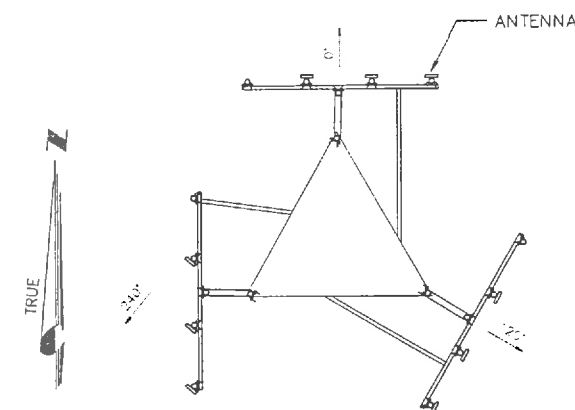
2 CABLE SUPPORT DETAIL
C-2 NO SCALE

NOTE: 1. 8" MAX SPACING BETWEEN SUPPORTS.
2. TOP OF PIER IN SLAB LOCATION TO BE 6" BELOW GRADE.



3 FOUNDATION DETAIL
C-2 NO SCALE

NOTES:
1. SLAB ON GRADE SHALL BE 5000 PSI AIR ENTRAINED CONCRETE PLACED OVER A MIN. 6" GRAVEL TO AASH TO NO. 57 OR MD. CR-6 ON UNDISTURBED OR WELL COMPACTED SOIL WITH A BEARING PRESSURE OF 2000 PSF MIN. (NO ORGANIC MATTER PERMITTED)
2. SHELTER SHALL BE ANCHORED TO FOUNDATION AS PER MANUFACTURER'S RECOMMENDATIONS.
3. BOTTOM OF FOUNDATION MUST BE BELOW FROST LINE AND BEAR ON UNDISTURBED SOIL.



4 ANTENNA MOUNTS - PLAN VIEW
C-2 NO SCALE

NOTE: 1. ANTENNA MOUNTS SHALL BE IN ACCORDANCE WITH TOWER MANUFACTURER SPECIFICATIONS.

RELEASE	
DATE	
06/26/00	ISSUED FOR REVIEW

REVISIONS		
NO.	DATE	
1	10/3/00	ISSUED FOR REVIEW

DRAWN BY: QCB
CHECKED BY: JR

SITE NAME

UVA EAST LAWN

SITE NUMBER

NEXTEL SITE# - VA 063P-A

SITE ADDRESS

**N. MAIN ST HWY 250
CHARLOTTESVILLE, VA 22911**

SHEET TITLE

STRUCTURAL DETAILS

SHEET NUMBER

C-4

PLOT SCALE: AS SHOWN



RELEASE	
DATE	
09/28/00	ISSUED FOR REVIEW

REVISIONS		
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1	10/3/00	ISSUED FOR REVIEW

DRAWN BY: QCB
CHECKED BY: JR

SITE NAME

UVA EAST LAWN

SITE NUMBER

NEXTEL SITE# - VA 063P-A

SITE ADDRESS

**N. MAIN ST HWY 250
CHARLOTTESVILLE, VA 22911**

SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER

E-1

PLOT SCALE: AS SHOWN

ABBREVIATIONS

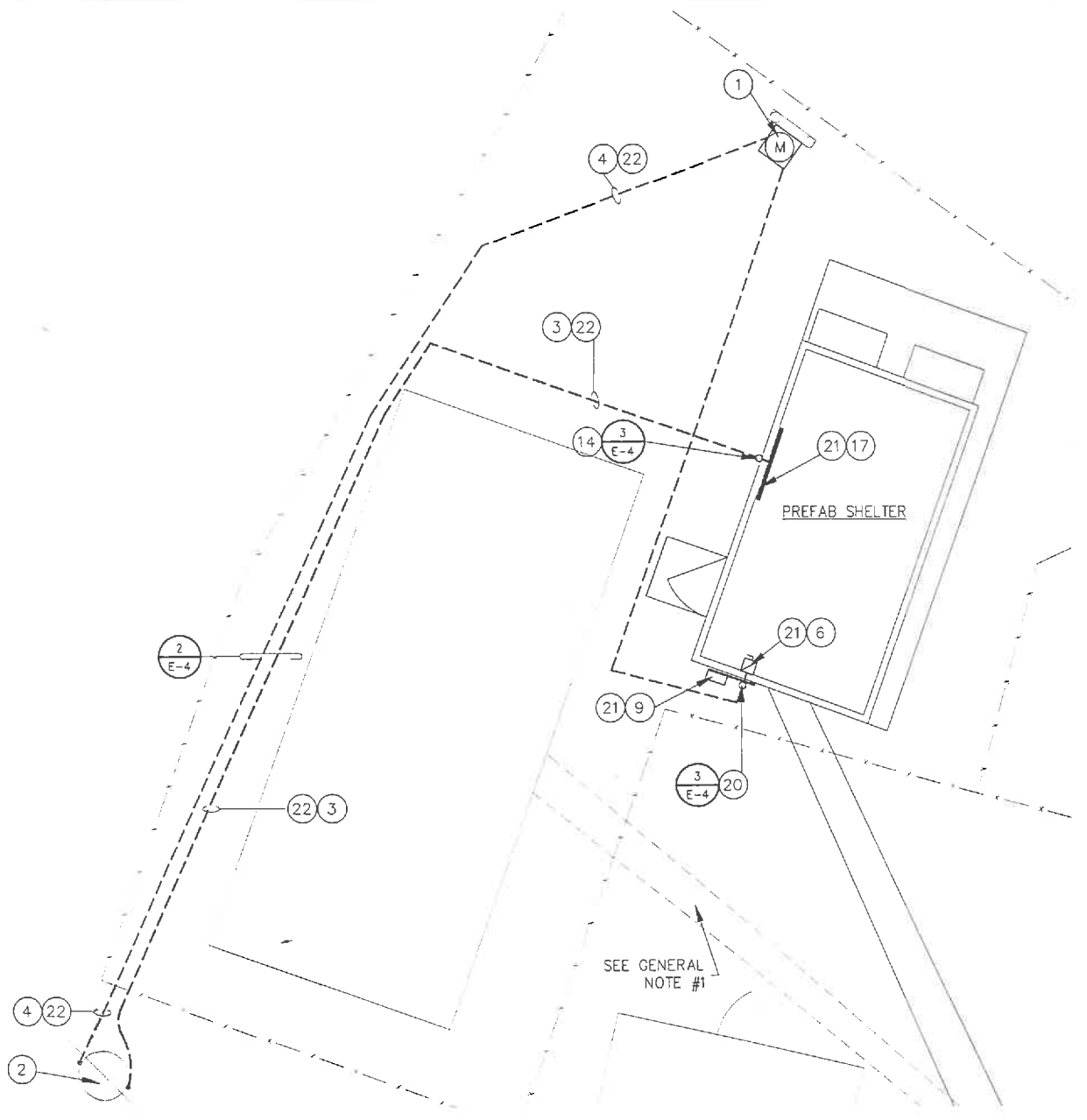
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|-------|------------------------------------|-----|--------------------------------|
| A | AMPERES | KW | KILOWATT |
| AFF | ABOVE FINISHED FLOOR | MGB | MASTER GROUND BAR |
| AFC | ABOVE FINISHED GRADE | MIN | MINIMUM |
| AIC | AMPS INTERRUPTING CAPACITY | MTS | MANUAL TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE | NEC | NATIONAL ELECTRICAL CODE |
| BCW | BARE COPPER WIRE (SOLID TINNED) | P | POLE |
| C | CONDUIT | RGS | RIGID GALVANIZED STEEL CONDUIT |
| CB | CIRCUIT BREAKER | SCB | SECTOR GROUND BAR |
| CIGBE | COAX ISOLATED GROUND BAR, EXTERNAL | TYP | TYPICAL |
| DWG | DRAWING | V | VOLTS |
| EGB | ENTRY PORT GROUND BAR | W/ | WITH |
| EMT | ELECTRICAL METALLIC TUBING | WP | WEATHERPROOF |
| G/GRD | GROUND | # | NUMBER |
| IGR | INTERIOR GROUND RING | | |
| KVA | KILOVOLT-AMPERE | | |

LEGEND

- EXISTING UTILITY POLE
- METER SOCKET BY THIS CONTRACT. METER BY UTILITY COMPANY.
- SERVICE DISCONNECT
- GROUND BAR
- GROUND ROD
- INSPECTION WELL
- COMPRESSION LUG CONNECTION
- EXOTHERMIC WELDED CONNECTOR
- UNDERGROUND ELECTRIC/TELEPHONE
- GROUNDING WIRE
- DETAIL NUMBER
- DRAWING(S) NUMBER
- CODED DRAWING NOTE

GENERAL NOTE:

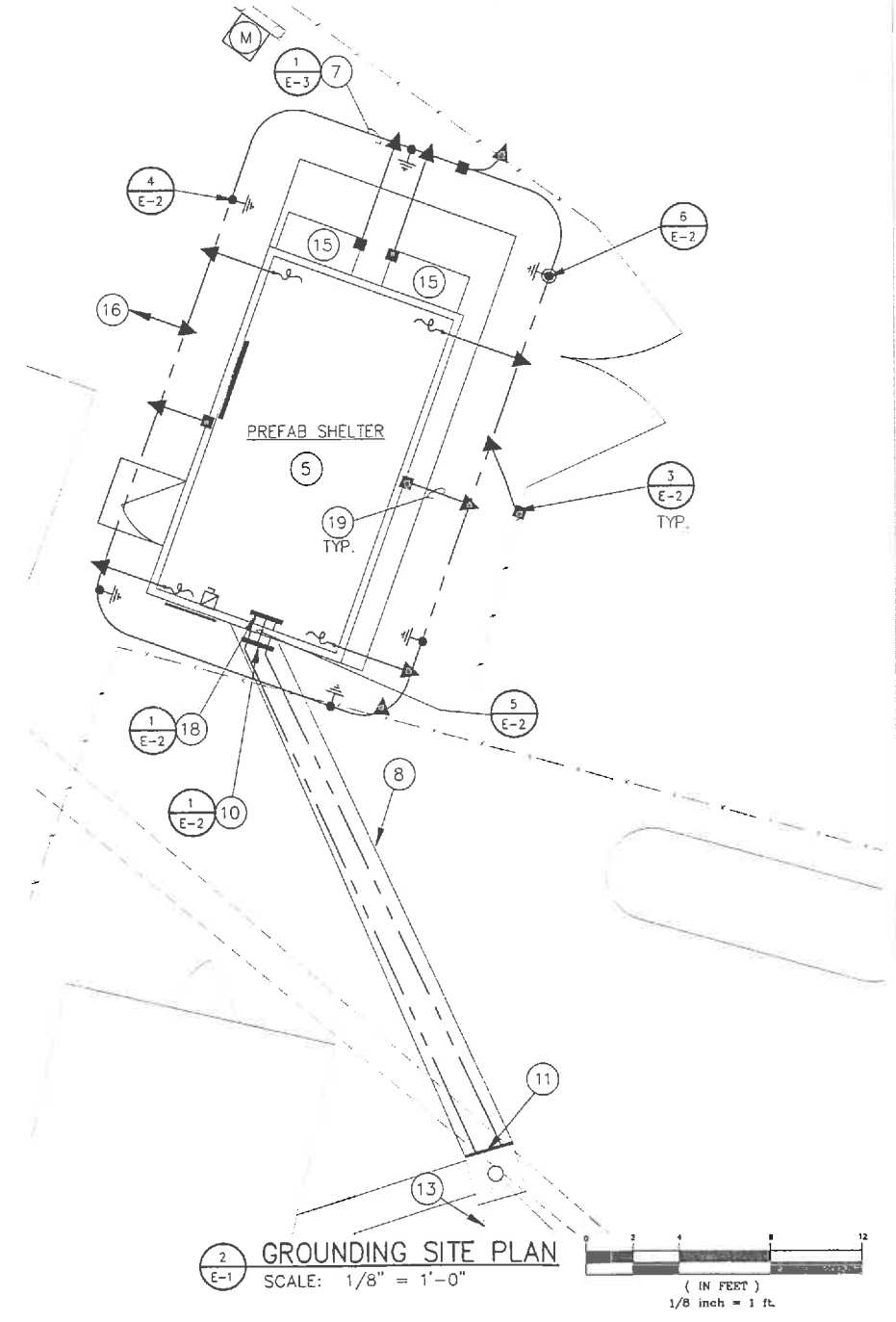
1. THIS SITE INCLUDES EXISTING UNDERGROUND ELECTRIC, TELEPHONE AND GROUNDING SYSTEMS. CONTACT APPROPRIATE AGENCIES TO LOCATE EXISTING UNDERGROUND SERVICES PRIOR TO EXCAVATION. ANY EXCAVATION WITHIN THE PROXIMITY OF UNDERGROUND SERVICES SHALL BE PERFORMED BY HAND.



1 ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"

CODED DRAWING NOTES:

- | | | | |
|----|--|----|---|
| 1 | METER SOCKET AND METER BACKBOARD BY CONTRACTOR. METER AND 200 AMP SERVICE BY UTILITY COMPANY AND INSTALLED BY THIS CONTRACT. COORDINATE FINAL LOCATION WITH UTILITY COMPANY. | 11 | TOP AND BOTTOM (TOWER) CIGBE(S). |
| 2 | EXISTING UTILITY POLE WITH POWER/TELCO SERVICE. | 12 | SECTOR CIGBE(S). |
| 3 | 2" C. w/6 PAIR, #24 AWG SOLID CORE TELEPHONE CABLE. | 13 | EXISTING SELF SUPPORTING TOWER. |
| 4 | 2" C. w/ (3) #3/0 + #6G. | 14 | TELEPHONE CONDUIT STUB-UP. COORDINATE EXACT LOCATION IN FIELD. |
| 5 | IGR BY SHELTER MANUFACTURER. GROUNDING CONNECTIONS INSIDE SHELTER BY OTHERS UNLESS NOTED OTHERWISE. | 15 | AC UNITS BY SHELTER MANUFACTURER. GROUNDING CONNECTION BY THIS CONTRACT. |
| 6 | SERVICE DISCONNECT SWITCH BY SHELTER MANUFACTURER. LINE SIDE TERMINATIONS BY THIS CONTRACT. | 16 | TIE INTO EXISTING GROUND RING. FIELD VERIFY EXACT LOCATION. |
| 7 | #2 SOLID TINNED BCW BURIED EXTERIOR GROUND RING. | 17 | INTERIOR TELEPHONE BOARD BY SHELTER MANUFACTURER. TERMINATIONS BY OTHERS. |
| 8 | ICE BRIDGE. BOND EACH SECTION. | 18 | INTERIOR MAIN GROUND BAR BY SHELTER MANUFACTURER. CABLES AND TERMINATIONS BY THIS CONTRACT. |
| 9 | POWER PEDESTAL, INCLUDING GENERATOR RECEPTACLE. TERMINATIONS TO POWER PEDESTAL BY THIS CONTRACT. | 19 | BUILDING T-BRACKET. CADWELDED TO GROUND RING. |
| 10 | EXTERIOR GROUND BAR BY SHELTER MANUFACTURER. CABLES AND TERMINATIONS BY THIS CONTRACT. | 20 | POWER CONDUIT STUB-UP. COORDINATE EXACT LOCATION IN FIELD. |
| | | 21 | LOCATION OF EQUIPMENT IS DEPENDENT ON ACTUAL SHELTER PROVIDED. COORDINATE EXACT LOCATION OF EQUIPMENT IN FIELD. |
| | | 22 | COORDINATE EXACT LOCATION OF CONDUIT IN FIELD. |



2 GROUNDING SITE PLAN
SCALE: 1/8" = 1'-0"
(IN FEET)
1/8 inch = 1 ft.