NEXTEL

DC-0954
OCC
301 G STREET, S.W.
WASHINGTON, D.C. 20024

entrex
communication services, inc.
1575 Eye Street, N.W. Suite 350
WASHINGTON, D.C. 20005
PHONE: (202)408-0960
FAX: (202)408-0961

SUBMITTALS		
DATE	DESCRIPTION	REV
08-23-00	CONSTRUCTION REVIEW	
10-13-00	FOR PERMIT	
01-11-01	FOR CONSTRUCTION	

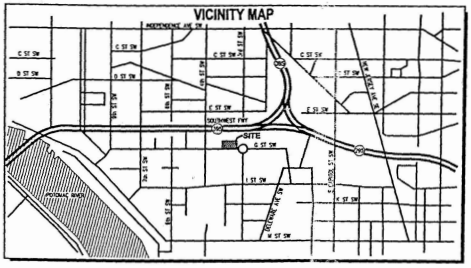
DISTRICT OF COLUMBIA
CAMILLE P. SHABSHAB
10857
REGISTERED
PROFESSIONAL ENGINEER

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS WE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND APPURTENANTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE CONSTRUCTION MANAGER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWING/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATION UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY
12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT IS RESOLVED BY THE CONSTRUCTION MANAGER.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE PROJECT

BZA
Case No. 16770
Exhibits No. 6

VICINITY MAP



SHEET INDEX

T-1	TITLE SHEET
A-1	ROOF PLAN & ANTENNA SCHEDULE
A-2	ELEVATIONS
S-1	STRUCTURAL NOTES, PLANS AND SECTIONS
S-2	STRUCTURAL SUPPORT FRAME PLAN AND DETAILS
E-1	ELECTRICAL SPECIFICATIONS, LEGEND AND SCHEDULES
E-2	ELECTRICAL PLANS AND DIAGRAM
E-3	GROUNDING DIAGRAM AND DETAILS

SYMBOLS AND ABBREVIATIONS

ADJ	ADJUSTABLE	MAX	MAXIMUM	⊕	SPOT ELEVATION
APPROX	APPROXIMATE	MECH	MECHANICAL		
CAB	CABINET	MFR	MANUFACTURER	℄	CENTERLINE
CLG	CEILING	MGB	MAIN GROUND BAR		
CONC	CONCRETE	MIN	MINIMUM	℄	PLATE
CONT	CONTINUOUS	MTL	METAL		
CJ	CONSTRUCTION JOINT	NIC	NOT IN CONTRACT	(No.) / (SHT)	DETAIL NUMBER / SHEET NUMBER
DIA	DIAMETER	NTS	NOT TO SCALE		
DWG	DRAWING	OC	ON CENTER	—G—	GROUND WIRE
EGB	EQUIPMENT GROUND BAR	OPP	OPPOSITE		COAXIAL CABLE
EA	EACH	SF	SQUARE FOOT		
ELEC	ELECTRICAL	SHT	SHEET		
EL	ELEVATION	SIM	SIMILAR		
EQ	EQUAL	SS	STAINLESS STEEL		
EQUIP	EQUIPMENT	STL	STEEL		
(E)	EXISTING	TOC	TOP OF CONCRETE		
EXT	EXTERIOR	TOM	TOP OF MASONRY		
FF	FINISHED FLOOR	TOS	TOP OF STEEL		
GA	GAGE	TYP	TYPICAL		
GALV	GALVANIZED	VIF	VERIFY IN FIELD		
GB	GROUND BAR	UON	UNLESS OTHERWISE NOTED		
GC	GENERAL CONTRACTOR	WWF	WELDED WIRE FABRIC		
GND	GROUND	W/	WITH		
LG	LONG	&	AND		
LLH	LONG LEG HORIZONTAL	@	AT		

PROJECT DESCRIPTION

1. INSTALL 12 PANEL ANTENNAS ON EXISTING BUILDING AND MOUNTED EQUIPMENT.
2. PROVIDE 12'-0" x 20'-0" x 9'-6"H SHELTER ON MAIN ROOF.
3. SUBMETER ELECTRICAL SERVICE FROM EXISTING BUILDING SERVICE.
4. PROVIDE T1/DS SERVICE TO SHELTER FROM EXISTING DEMARCATION POINT.
5. RUN ANTENNA SIGNAL AND GROUNDING CABLES.

OWNER APPROVAL

OWNER REPRESENTATIVE — DATE 6-29-01

NEXTEL
4340 East West Hwy.
BETHESDA, MD 20814
PHONE: (301) 951-2000

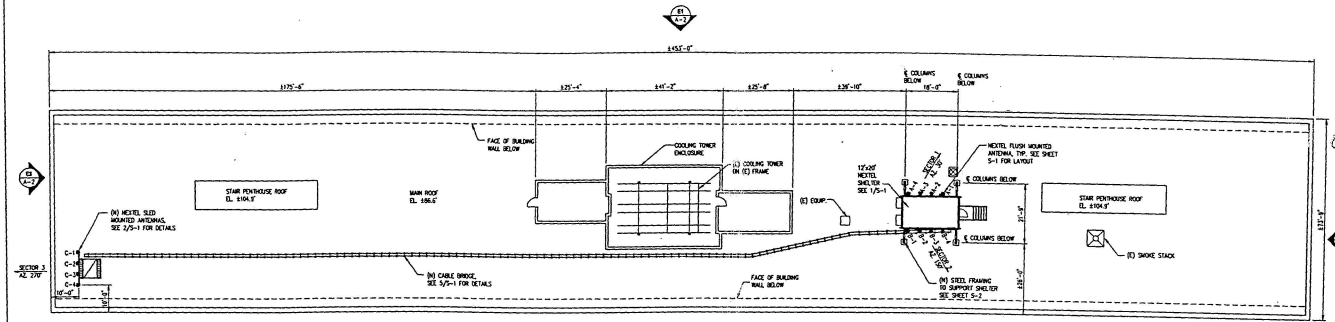
PROJECT NO:	1002.002
DESIGNER:	WDE
ENGINEER:	M.M.

SCALE: 0 1/2 1 — GRAPHIC SCALE IN INCHES

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301 G STREET, SW
WASHINGTON, DC 20024

TITLE:
TITLE SHEET

SHEET NUMBER:
T-1



ROOF PLAN

SCALE: 1/16"=1'

TRUE NORTH

NOTES:

1. THE REFERENCE ELEVATION FOR THE ROOF IS THE GROUND FLOOR LEVEL OF THE BUILDING WHICH IS TAKEN AS REFERENCE EL. 0.0'
2. ALL DIMENSIONS SHOWN THUS ± ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECTS THE CONTRACTORS WORK.
3. REFER TO ELECTRICAL DRAWING FOR GROUNDING DIAGRAM.
4. THE ROOF STRUCTURE HAS BEEN ANALYZED AND SHOWN TO HAVE THE CAPACITY TO SUPPORT THE LOADS OF THE PROPOSED EQUIPMENT AND ANTENNA INSTALLATION.
5. THE CONTRACTOR SHALL VERIFY LOCATION OF (E) COLUMNS BEFORE FABRICATING FRAME.

ANTENNA AND COAXIAL CABLE SCHEDULE

ANTENNA MARK	SECTOR	ANTENNA	COAXIAL CABLE FEED LOCATION	DOWN-TILT	AZIMUTH	ANTENNA ℄ HEIGHT	CABLE LENGTH	COAXIAL CABLE	COLOR CODE
A-1	1	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		30°	96.5'	25'	ANDREW SYSTEMS 7/8"# LDF5-50A	R
A-2	1	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		30°	96.5'	30'	ANDREW SYSTEMS 7/8"# LDF5-50A	B
A-3	1	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		30°	96.5'	35'	ANDREW SYSTEMS 7/8"# LDF5-50A	G
A-4	1	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		30°	96.5'	40'	ANDREW SYSTEMS 7/8"# LDF5-50A	Br
B-1	2	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		150°	96.5'	10'	ANDREW SYSTEMS 7/8"# LDF5-50A	RR
B-2	2	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		150°	96.5'	15'	ANDREW SYSTEMS 7/8"# LDF5-50A	BB
B-3	2	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		150°	96.5'	20'	ANDREW SYSTEMS 7/8"# LDF5-50A	GG
B-4	2	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		150°	96.5'	25'	ANDREW SYSTEMS 7/8"# LDF5-50A	BrBr
C-1	3	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		270°	92.5'	245'	ANDREW SYSTEMS 1 5/8"# LDF7-50A	RRR
C-2	3	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		270°	92.5'	250'	ANDREW SYSTEMS 1 5/8"# LDF7-50A	BBB
C-3	3	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		270°	92.5'	255'	ANDREW SYSTEMS 1 5/8"# LDF7-50A	GGG
C-4	3	CMS RWS PANEL (48" x 12" x 7")	CENTER BACK		270°	92.5'	260'	ANDREW SYSTEMS 1 5/8"# LDF7-50A	BrBrBr

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SEAL: DISTRICT OF COLUMBIA 10858 REGISTERED PROFESSIONAL ENGINEER

NEXTEL
4340 East West Hwy.
BETHESDA, MD 20814
PHONE: (301) 951-2800

PROJECT NO:	1002.002
DESIGNER:	TA
ENGINEER:	M.M.

SCALE: 0 1/2 1 GRAPHIC SCALE IN INCHES

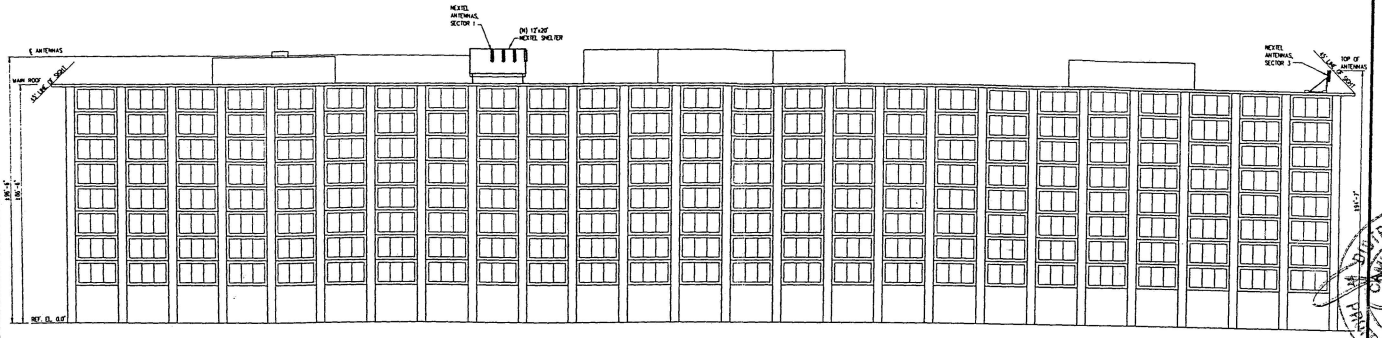
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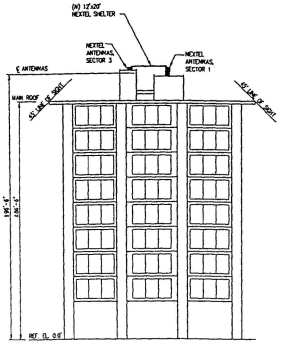
ROOF PLAN & ANTENNA SCHEDULE

SHEET NUMBER:

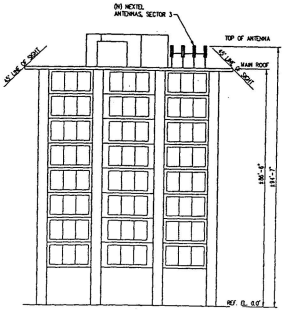
A-1



NORTH ELEVATION (E1, A-2)
SCALE: 1/16"=1'



EAST ELEVATION (E2, A-2)
SCALE: 1/16"=1'



WEST ELEVATION (E3, A-2)
SCALE: 1/16"=1'

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CAMILLE F. SHABSHAB
10857
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PHONE: (301) 951-2800

PROJECT NO:	1002.002
DESIGNER:	TA
ENGINEER:	M.M.

SCALE:
0 1/2 1
GRAPHIC SCALE IN INCHES

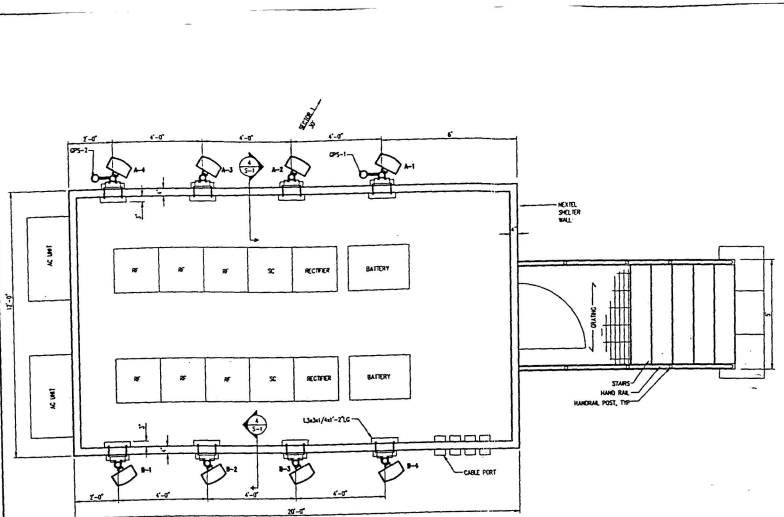
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WASHINGTON, DC 20024

TITLE:
ELEVATIONS

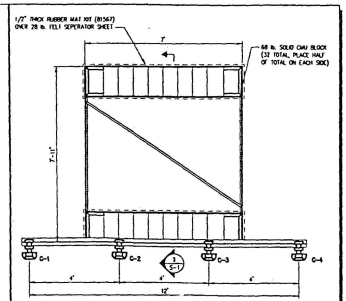
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A-2

STRUCTURAL NOTES

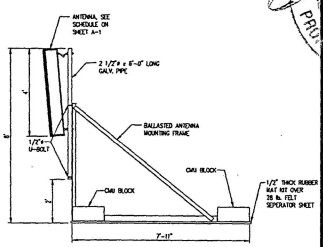
1. DESIGN REQUIREMENTS PER LOCAL UNIFORM STATE BUILDING CODE AS SUPPLEMENTED BY 1996 BOCA NATIONAL BUILDING CODE EIA/TIA-222-F STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES. THE BASIC WIND SPEED U/N/O/D FOR DESIGN IS 80 mph.
2. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED BY FIELD MEASUREMENT AND FROM THE EXISTING STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH CONSTRUCTION
3. THE GENERAL CONTRACTOR AND HIS SUBCONSULTANTS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK
4. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE AISC CODE OF STANDARD PRACTICE
5. STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM A36 ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
6. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D1.1-96 STRUCTURAL WELDING CODE - STEEL WELD ELECTRODES SHALL BE E70XX
7. ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLIES SHALL CONFORM TO ASTM A307 OR ASTM A36. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 3/8 INCH MIN. DIAMETER BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED IN THE SHEAR PLANE. ALL EXPOSED FASTENERS, NUTS AND WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED NUTS AND WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED CONCRETE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLTS UNLESS OTHERWISE NOTED ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL.
8. ALL COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE AS SPECIFIED BY THE OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
9. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION
10. ROOF PROTECTION PADS UNDER THE BRIDGE KIT SLEEPERS SHALL BE 0.33 INCH THICK RUBBER FIRESTONE PROTECTION PADS. THE ROOF PROTECTION PADS SHALL EXTEND A MINIMUM OF TWO INCHES BEYOND THE PERIMETER OF THE SLEEPERS AND SHALL BE PLACED WITH A MINIMUM OF 1/2" SPACE BETWEEN ADJACENT PADS TO FACILITATE DRAINAGE. PROVIDE A 28lb. FELT SEPERATOR SHEET 2 INCHES LARGER THAN THE PROTECTION PAD DIRECTLY ON THE ROOF. REMOVE ALL LOOSE STONES PRIOR TO PLACING THE SEPERATOR SHEET.
11. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE BUILDING OWNER'S ROOF CONTRACTOR WHO WILL COMPLETE ALL WORK ASSOCIATED WITH THE ROOF. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE BUILDING OWNER'S ROOF CONTRACTOR BEFORE INSTALLATION OF ANY ROOF MOUNTED EQUIPMENT.



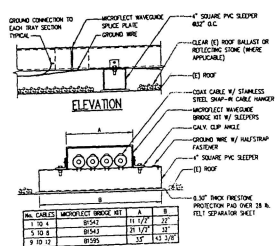
SHELTER & ANTENNA PLAN (1/S-1)
SCALE: 1/2"=1'-0"



MICROFLECT 99547
ANTENNA SUPPORT BASE PLAN (3/S-1)
SCALE: 1/2"=1'-0"

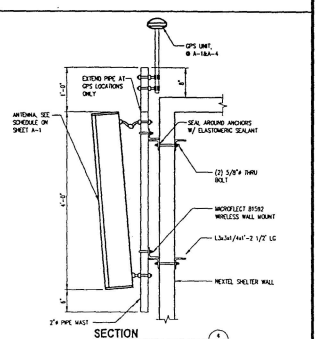


ANTENNA SUPPORT FRAME (3/S-1)
SCALE: 1/2"=1'-0"



No. CABLES	MICROFLECT BRIDGE KIT	A	B
1 TO 4	81542	14 1/2"	22"
5 TO 8	81543	21 1/2"	33"
9 TO 12	81595	33"	43 3/8"

CABLE BRIDGE DETAIL (5/S-1)
SCALE: 1 1/2"=1'-0"



SECTION (4/S-1)
SCALE: 1"=1'-0"

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DISTRICT OF COLUMBIA
SEAL
No. 10657
REGISTERED
PROFESSIONAL ENGINEER

NEXTEL
4340 East West Hwy.
BETHESDA, MD 20814
PHONE: (301) 951-2500

PROJECT NO:	1002.002
DESIGNER:	TMF
ENGINEER:	H.M.

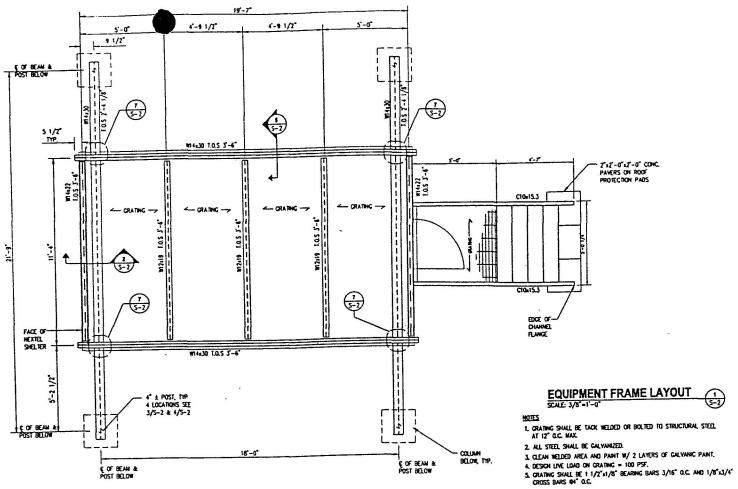
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WASHINGTON, DC 20024

TITLE:

STRUCTURAL NOTES
PLANS AND SECTIONS

SHEET NUMBER:
S-1

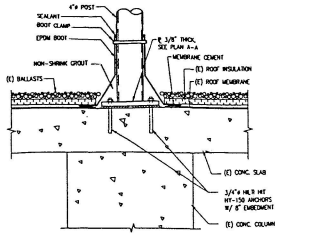


EQUIPMENT FRAME LAYOUT

SCALE: 3/8"=1'-0" (1/S-2)

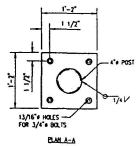
NOTES

1. GRATING SHALL BE TACK WELDED OR BOLTED TO STRUCTURAL STEEL AT 12" O.C. MAX.
2. ALL STEEL SHALL BE GALVANIZED.
3. CLEAN WELDED AREA AND PAINT W/ 2 LAYERS OF GALVANIC PAINT.
4. DESIGN LIVE LOAD ON GRATING = 100 PSF.
5. GRATING SHALL BE 1 1/2"x1/8" BEARING BARS 3/16" O.C. AND 1/8"x3/4" CROSS BARS @4" O.C.

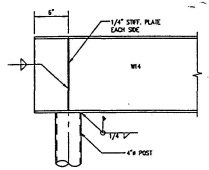


TYPICAL POST TO COLUMN CONNECTION

SCALE: 1 1/2"=1'-0" (1/S-2)

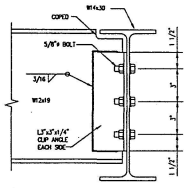


PLAN A-A



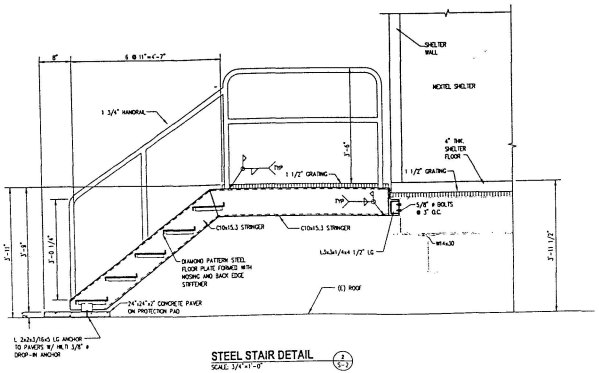
TYPICAL POST TO W14 CONNECTION

SCALE: 1-1/2"=1'-0" (3/S-2)



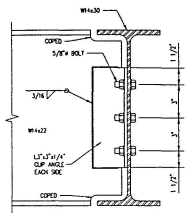
TYPICAL W12 TO W14 CONNECTION DETAIL

SCALE: 3"=1'-0" (1/S-2)



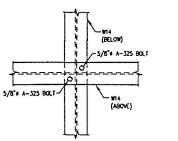
STEEL STAIR DETAIL

SCALE: 3/4"=1'-0" (2/S-2)



TYPICAL W14 TO W14 CONNECTION DETAIL

SCALE: 3"=1'-0" (4/S-2)



NOTE:
PROVIDE 1/4" THICK STIFFENER PLATE EACH SIDE OF WEB OF UPPER & LOWER BEAMS AT BEARING LOCATION.

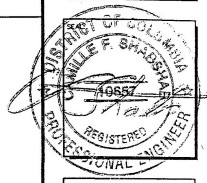
DETAIL

SCALE: 1 1/2"=1'-0" (3/S-2)

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PHONE: (202)408-0960
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SUBMITTALS

DATE	DESCRIPTION	REV
08-23-00	CONSTRUCTION REVIEW	
10-13-00	FOR PERMIT	
01-11-01	FOR CONSTRUCTION	



NEXTEL
4340 East West Hwy.
BETHESDA, MD 20814
PHONE: (301) 951-2800

PROJECT NO:	1002.002
DESIGNER:	TMF
ENGINEER:	M.M.

SCALE:
0 1/2 1
GRAPHIC SCALE IN INCHES

DC-0954
OCC
301 G STREET, SW
WASHINGTON, DC 20024

TITLE:
STRUCTURAL SUPPORT FRAME PLAN AND DETAILS

SHEET NUMBER:
S-2

GENERAL NOTES

1. OBTAIN PERMITS AND PAY FEES RELATED TO ELECTRICAL WORK PERFORMED ON THIS PROJECT DELIVER COPIES OF ALL PERMITS TO NEXTEL REPRESENTATIVE.
2. SCHEDULE AND ATTEND INSPECTIONS RELATED TO ELECTRICAL WORK REQUIRED BY JURISDICTION HAVING AUTHORITY. CORRECT AND PAY FOR ANY WORK REQUIRED TO PASS ANY FAILED INSPECTION.
3. ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM APPROVED BY NEXTEL TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED 5 OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY NEXTEL REPRESENTATIVE. THE COMPLETED SITE SHALL BE TESTED AND A REPORT SENT TO NEXTEL REPRESENTATIVE.
4. REQUIRED AS-BUILTS ARE TO BE DELIVERED TO NEXTEL REPRESENTATIVE.
5. PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS IN THREE-RING BINDER.
6. FURNISH AND INSTALL THE COMPLETE ELECTRICAL SERVICE, CABLE TRAY, TELCO CONDUIT, AND THE COMPLETE INTERIOR AND EXTERIOR GROUNDING SYSTEM.
7. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND LOCAL ORDINANCES. INSTALLED IN A NEAT MANNER, AND SHALL BE SUBJECT TO APPROVAL BY NEXTEL REPRESENTATIVE
8. CONDUCT A PRE-CONSTRUCTION SITE WALK AND NOTIFY EXISTING SITE CONDITIONS AFFECTING THIS WORK. REPORT ANY OMISSIONS OR DISCREPANCIES FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION.
9. PROTECT ADJACENT STRUCTURES AND FINISHES FROM DAMAGE. REPAIR TO ORIGINAL CONDITION ANY DAMAGED AREA.
10. REMOVE DEBRIS ON A DAILY BASIS. DEBRIS NOT REMOVED IN A TIMELY FASHION WILL BE REMOVED BY OTHERS AND THE RESPONSIBLE SUBCONTRACTOR SHALL BE CHARGED ACCORDINGLY. REMOVAL OF DEBRIS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. DEBRIS SHALL BE PROPERTY REMOVED FROM THE AND DISPOSED OF LEGALLY. USE OF THE PROPERTY'S DUMPSTER IS PROHIBITED.
11. UPON COMPLETION OF WORK, THE SITE SHALL BE CLEAN AND FREE OF DUST AND PANCEPHOTO.
12. SEAL ALL OPENINGS AROUND PENETRATIONS THROUGH NEW AND EXISTING WALLS RESULTING FROM THIS WORK. SEAL IN ACCORDANCE WITH ALL CODES.
13. CORE DRILLING SHALL COMMENCE ONLY AFTER STRUCTURAL ENGINEERING REVIEW, WRITTEN REPORT AND DRAWING (AND X-RAY IF REQUIRED) ARE APPROVED BY BUILDING OWNER AND NEXTEL CONSTRUCTION MANAGER. ENGINEER SHALL BE EMPLOYED BY NEXTEL.

GENERAL SPECIFICATIONS

1. WIRING SHALL BE #6 AWG STRANDED COPPER WITH THHN OR THW INSULATION, #12 MINIMUM, INSTALLED IN 1/2" MINIMUM CONDUIT. SIGNAL WIRING SHALL BE INSULATED #22 AWG, NO SIS OR ROMEX CABLE IS PERMITTED. CONDUITS SHALL BE SURFACE MOUNTED. HORIZONTAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 7'-6" AFF.
2. WIRING DEVICES AND EQUIPMENT SHALL BE UL LISTED AND SPECIFICATION GRADE.
3. MATERIALS SHALL BE NEW AND CONFORM TO THE APPLICABLE STANDARDS ESTABLISHED FOR EACH ITEM BY THE ORGANIZATIONS LISTED BELOW:
   - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
   - UNDERWRITER'S LABORATORY (UL)
   - NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION (NEMA)
   - AMERICAN STANDARDS ASSOCIATION (ASA)
   - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
4. INSTALLATION OF MATERIALS SHALL COMPLY WITH REGULATIONS OF:
   - THE NATIONAL ELECTRICAL CODE (NFPA 70)
   - THE NATIONAL ELECTRICAL SAFETY CODE (ANSI C-2)
   - THE LIFE SAFETY CODE (NFPA 101)
   - LOCAL BUILDING CODES
5. THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDED USING LOCKNUTS AND BONDING NUTS ON CONDUITS AND PROPERLY BONDED GROUND CONDUCTORS. RECEPTACLES AND EQUIPMENT BRANCH CIRCUITS SHALL BE GROUNDED WITH A FULL-SIZED EQUIPMENT GROUNDING CONDUCTOR RUN IN THE CIRCUIT'S CONDUIT.
6. OUTLET AND JUNCTION BOXES SHALL BE ZINC-COATED OR CADMIUM PLATED STEEL, NOT LESS THAN 4" SQUARE, AND SUITABLE FOR THE TYPE SERVICE AND OUTLET. OUTLET AND JUNCTION BOXES SHALL BE SURFACE MOUNTED AND LABELED WITH BRANCH CIRCUIT BREAKER NUMBER.
7. LABEL ALL EQUIPMENT SERVED FROM NEXTEL PANELBOARD WITH PHENOLIC LABELS SIZED IN RELATION TO USAGE.
8. WOODEN CONDUCTORS SHALL BE INSTALLED IN CHT UNLESS NOTED OTHERWISE. OUTDOOR CONDUCTORS SHALL BE INSTALLED IN SCHEDULE 40 POLYVINYL CHLORIDE (PVC) CONDUIT.

GROUNDING

1. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF NATIONAL ELECTRICAL CODE.
2. ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
3. GROUNDING WIRE CONNECTIONS SHALL BE 3-CRIMP C TAP COMPRESSION TYPE. SPLIT BOLTS ARE NOT ACCEPTABLE.
4. BUSS CONNECTORS SHALL BE 2-HOLE LONG BARREL TYPE COMPRESSION LUGS. LUGS SHALL BE ATTACHED TO BUSSES USING BOLTS, NUTS AND STAR AND LOCK WASHERS. NO WASHERS ARE ALLOWED BETWEEN THE VIEWS BEING CROSSBONDED.
5. CONNECTORS SHALL BE CRIMPED USING HYDRAULIC CRIMPING TOOLS.
6. SURFACE CONNECTORS SHALL BE MADE TO BARE METAL, PAINTED SURFACES SHALL BE FILED TO BE ENSURE PROPER CONTACT. APPLY ANTI-OXIDATION AGENT TO CONNECTORS.
7. COPPER BUSSES SHALL BE CLEANED, POLISHED, AND A NON-OXIDIZING AGENT APPLIED. NO FINGERPRINTS OR DISCOLORED COPPER WILL BE PERMITTED.
8. GROUND CONDUCTOR RUNS SHALL BE STRAIGHT AS POSSIBLE, WITH AN 8-INCH MINIMUM RADIUS.
9. GROUNDING CONDUCTORS SHALL BE RUN THROUGH PVC SLEEVE WHERE ROUTED THROUGH WALLS, FLOORS, OR CEILING. IN THE EVENT THAT SITE CONDITIONS OR CODES REQUIRE CONDUCTORS TO BE INSTALLED IN METAL CONDUIT, ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
10. HARDWARE (I.E., NUTS BOLTS, WASHERS, ETC.) IS TO BE STAINLESS STEEL.
11. GROUNDING CONDUCTORS SHALL BE ROUTED FROM THE ITEM BEING GROUNDED TO THE CELL SITE POINT OF REFERENCE. POINT OF REFERENCE IS THE IGB MOUNTED BELOW THE CABLE ENTRY PANEL ON THE OPPOSITE SIDE OF THE MGB. (DOWN CONDUCTOR FROM IGB TO BUILDING PRINCIPAL GROUND IS SINGLE-POINT DOWN CONDUCTOR.)
12. EXOTHERMIC WELDS ("CADWELDS") SHALL BE INSTALLED IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-6L.
13. GROUND COAXIAL CABLES AT POINTS SHOWN ON GROUNDING RISER DIAGRAM WITH MANUFACTURER'S GROUNDING KITS.
14. BOND DOOR TO DOOR FRAME WITH #2 FLEXIBLE METAL GROUNDING JUMPER.

SHELTER GROUNDING SYSTEM

1. INTERNAL GROUND RING (IGR): #2 AWG GREEN-INSULATED STRANDED COPPER WIRE, 8'-0" AFF CLOSED LOOP, 4" ABOVE THE CABLE TRAY AROUND THE PERIMETER OF THE ROOM. CONNECTIONS ARE MADE TO THE MGB AS INDICATED ON GROUNDING RISER DIAGRAM (DRAWING C-3.)
2. IGR SUPPORTS: TAIL #TCG3/8 OR PANDUIT #PT25-TG-1 STANDOFFS MOUNTED 18" O.C. BOTH HORIZONTALLY AND VERTICALLY AT THE SAME ELEVATION ART AROUND THE PERIMETER OF THE ROOM. #2 GREEN-INSULATED WIRE SHALL BE ATTACHED TO THE STAND-OFFS WITH NATURAL NYLON CABLE TIES. FASTEN SUPPORTS INTO DRYWALL USING BUILDER C-Z ANCHORS.
3. #6 AWG CONNECTIONS TO IGR:
   a. CABLE TRAY SYSTEM (FOUR CONNECTIONS)
   b. AC UNITS' INTERIOR COVERS
   c. TELCO BACKBOARD GROUND BUSS
   d. DOOR FRAME
   e. PANELBOARD
   f. SURGE ARRESTOR
   g. RECTIFIER CIRCUIT JUNCTION BOX
   h. DOUBLE-THROW TRANSFER SWITCH
4. CABLE TRAY SECTIONS SHALL BE GROUNDED TO EACH OTHER WITH #6 AWG GREEN INSULATED STRANDED COPPER WIRE AND TWO-HOLE TAB LUGS.
5. MASTER GROUND BAR (MGB): BARE COPPER BUSS BAR, 1/4"x4"x24", MOUNTED ON INSULATORS BELOW THE CABLE ENTRY PANEL.
6. MASTER GROUND BAR CONDUCTOR: #2 BARE COPPER WIRE FROM MGB, BONDED TO DOWN CONDUCTOR AT POINT BELOW THE IGR. REFER TO EQUIPMENT ROOM PLAN (DRAWING C-2) AND GROUNDING RISER DIAGRAM (DRAWING C-3) FOR LOCATIONS AND POINT OF CONNECTION.
7. POLYPHASER GROUND BAR ASSEMBLY: THREE ALUMINUM BUSS BARS, WITH STAND-OFF INSULATORS 24"x4"x1/4" ASSEMBLED WITH 3/8" ALL-THREAD HUNG FROM THE SITE ROOM CEILING, LOCATED IN SITE ROOM AS SHOWN ON DRAWINGS C-2 AND C-3. EACH BAR SHALL BE BONDED TO THE MGB WITH A #6 GREEN-INSULATED WIRE.
8. TELCO ENTRANCE SURGE ARRESTOR (PROVIDED BY NEXTEL): MOUNT ON THE TELCO BOARD AND CONNECT TO THE MGB WITH #6 GREEN-INSULATED WIRE.
9. INTERMEDIATE GROUND BAR (IGB): BARE COPPER BUSS BAR, 1/4"x4"x6" MOUNTED ON STAND-OFF INSULATORS, MOUNTED BELOW CABLE ENTRY PANEL.
10. ANTENNA MOUNTS: EXOTHERMICALLY WELD #2 AWG GREEN-INSULATED WIRE TO ANTENNA PIPE MOUNT AT POINT ABOVE ANTENNA. REFER TO GROUNDING RISER DIAGRAM (SHEET E-3).

ELECTRICAL COMPONENTS

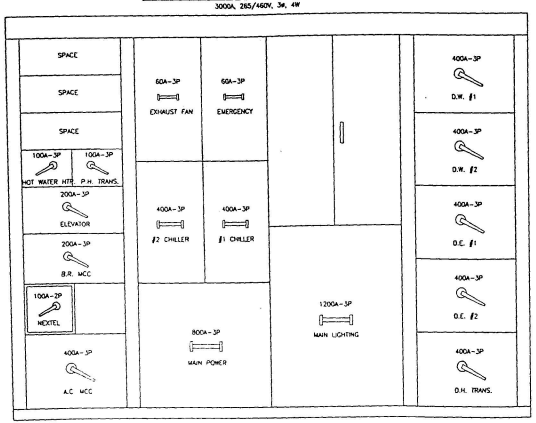
PROVIDE THE FOLLOWING ITEMS AS SPECIFIED BELOW

1. SURGE ARRESTOR: ATOLYN #1765-85-M, 120/240 VOLT, 3 WIRE, SINGLE PHASE.
2. DOUBLE-THROW TRANSFER SWITCH: SQUARE D #ZT254H WITH SOLID GROUND AND SOLID NEUTRAL
3. PROVIDE DIGITAL KWH SUB-METER APPROVED BY BUILDING OWNER.
4. PANELBOARD: SQUARE D 001-NW200 WITH EQUIPMENT GROUND BAR
5. CIRCUIT BREAKERS: SQUARE D OR PLUG-IN TYPE
6. LIGHT SWITCH: HUBBELL #1201, 15A, 120V SINGLE POLE, WHITE LIGHT SWITCH, JUNCTION BOX: RACO #592, 4" SQUARE, 1-1/2" DEEP; CORER PLATE: RACO #1900, 1/2" RAISED WORK COVER.
7. RECEPTACLES: HUBBELL #5362, 20A, 125V, 2P, 3 WIRE GROUNDING, DUPLEX, WHITE. MOUNT BOTTOM OF BOX 18" AFF (EXCEPT RECEPTACLES FOR TELCO AND CONDENSATION PUMP). RECEPTACLE JUNCTION BOXES: RACO #192 - 4" SQUARE 1-1/2" DEEP, SURFACE MOUNTED. RECEPTACLES COVER PLATE: #1902, 1/2" RAISED RECEPTACLE COVER PLATES: RACO #1902 - 1/2" RAISED WORK COVERS, HAVING PHENOLIC LABELS WITH ASSOCIATED BREAKER NUMBERS
8. CABLE TRAY SYSTEM: MOUNT 7'-6" AFF MINIMUM TO THE BOTTOM OF THE CABLE TRAY FOR STANDARD RADIO FRAMES. MOUNT 8'-0" AFF MINIMUM FOR RADIO CABINETS ON CASTERS. WIREY CABINET TYPE WITH CONSTRUCTION MANAGER. EXPOSED ENDS OF TRAY TO BE CAPPED.

   PART LISTS:
   - NEWTON INSTRUMENT 2003-31 CABLE TRAY
   - NEWTON INSTRUMENT 2014 COPPER CLAMP KIT
   - NEWTON INSTRUMENT 2013 STAR CLAMP KIT
   - NEWTON INSTRUMENT 1044 CEILING HANGER BRACKET
   - NEWTON INSTRUMENT 2054 SLOTTED HANGER KIT
   - NEWTON INSTRUMENT 2053-2 WALL MOUNTING ANGLE
   - NEWTON INSTRUMENT 3024-2 1/2" BOLTS
   - 5/8" THREADED ROD WITH NUTS AND WASHERS
9. GROUND BAR MOUNTING BRACKETS: NEWTON #A-6056
10. GROUND BAR INSULATORS: NEWTON 2006I-A
11. SIX LIGHT FIXTURES WITH THE FOLLOWING CHARACTERISTICS:
    120 VOLTS; SURFACE MOUNTED; PRISMATIC ACRYLIC WRAP-AROUND LENS; F1 2-LAMP, ELECTRONIC (ENERGY-EFFICIENT) BALLAST. PROVIDE (2) F32 48" LAMPS MAKING 4000 KELVIN COLOR RENDITION (COOL WHITE.)
12. COMBINATION BATTERY PACK - EXIT LIGHT:
    120/277V, 2 LAMPHEADS, STENCIL FACEPLATE, WHITE HOUSING, SMALLE-FACE, MAINTENANCE-FREE SEALED COIL BATTERY. SIMILAR TO LITHONIA QUANTUM #LQMN-5-W-IN-120/277-N-SSB
13. REFER TO SHELTER MANUFACTURERS SHOP DRAWINGS FOR ITEMS PROVIDED WITH SHELTER.
14. PROVIDE KWH METER ACCEPTABLE TO BUILDING OWNER.

EXISTING MAIN SWITCHBOARD (FRANK ADAMS)

3000A, 265/460V, 3ϕ, 4W



NOTE

A. PROVIDE 100A-3P FUSIBLE SWITCH WITH TWO (2) 100A FUSES IN AVAILABLE SPACE FOR NEXTEL EQUIPMENT.

PANEL-P

120/240 VOLTS, 1 PHASE, 3 WIRE, 200 AMP MCB

DESCRIPTION	AMPS	BKR	CKT	A	B	CKT	BKR	AMPS	DESCRIPTION
RECEPTACLES	6	20	1	7.5		2	20	1.5	TELCO RECEPTACLE
LIGHTS AND EXIT LIGHT	7	20	3		1.5	4	20	.5	SMOKE DETECTOR
RECTIFIER #1	6	30	5	12		6	30	6	RECTIFIER #2
	6		7		12	8		6	
RECTIFIER #3	6	30	9	12		10	30	6	RECTIFIER #4
	6		11		12	12		6	
RECTIFIER #5	6	30	13	12		14	30	6	FUTURE RECTIFIER #6
	6		15		12	16		6	
FUTURE RECTIFIER #7	6	30	17	12		18	30	6	FUTURE RECTIFIER #8
	6		19		12	20		6	
FUTURE RECTIFIER #9	6	30	21	6		22	20	-	SPARE
	6		23		6	24	20	-	SPARE
AC-1	29	40	25	29		26	-	-	SPACE
	29		27		29	28	-	-	SPACE
AC-2	29	40	29	29		30	-	-	SPACE
	29		31		29	32	-	-	SPACE
GFI RECEPTACLE	1.5	20	33	1.5		34	-	-	SPACE
SPARE	-	20	35			36	-	-	SPACE
SURGE SUPPRESSOR (NOTE 3)	.5	60	37	.5		38	-	-	SPACE
	.5		39		.5	40	-	-	SPACE
			TOTAL # A	122	120	TOTAL # B			

PANEL P CAPACITY: 68.4kVA, PANEL P CONNECTED LOAD: 29.4kVA

29 kVA x 1.25 = 36.25 kVA

PANELBOARD NOTES

1. PANELBOARD IS PROVIDED WITH SHELTER.
2. RECTIFIER MANUFACTURER: MOTOROLA
   EQUIPMENT: ENHANCED BASE TRANSCEIVER SYSTEM
   REFERENCE: MOTOROLA EBTS SYSTEM MANUAL
   RECTIFIER LOAD: 8 AMPS, 240V, 1Φ
3. SURGE SUPPRESSOR CONSUMES TRACE POWER FOR SELF MONITORING, UNIT SUPPRESSES MOMENTARY POWER SURGES.

LEGEND

- SAFETY DISCONNECT SWITCH
- KILOWATT HOUR METER
- DOUBLE-THROW TRANSFER SWITCH
- FUSIBLE SWITCH
- COPPER GROUND BAR MOUNTED ON INSULATORS
- EXOTHERMIC BONDING CONNECTION
- 5/8" DIA X 10'-0" COPPER-CLAD STEEL GROUND ROD
- GROUND SYSTEM INSPECTION WELL
- COAXIAL CABLE GROUND CONNECTION
- WEATHER PROOF EMERGENCY GENERATOR RECEPTACLE
- —P— POWER WIRING
- —T— TELCO WIRING
- —G— GROUND WIRING
- AGB ANTENNA GROUND BAR
- MGB MASTER GROUND BAR
- IGB INTERMEDIATE GROUND BAR
- EGB EXTERNAL GROUND BAR
- IGR INTERNAL GROUND RING (HALO GROUND)

ABBREVIATIONS

A	AMPERE	KWH	KILOWATT HOUR
AF	AMPERE FRAME	MCB	MAIN CIRCUIT BREAKER
C	CONDUIT	P	POLE
CP	CONDENSATE PUMP	RGS	RIGID GALVANIZED STEEL
CU	CONDENSING UNIT	SN	SOLID NEUTRAL
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
E	EXISTING	V	VOLT
E.I.C.	ELECTRONIC INTERFACE CABINET	W	WIRE
G	GROUND	ϕ	PHASE

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SUBMITTALS

DATE	DESCRIPTION	REV
08-23-00	CONSTRUCTION REVIEW	
10-13-00	FOR PERMIT	
01-11-01	FOR CONSTRUCTION	

DISTRICT OF COLUMBIA
CAMPBELL SHARP
10857
REGISTERED
PROFESSIONAL ENGINEER

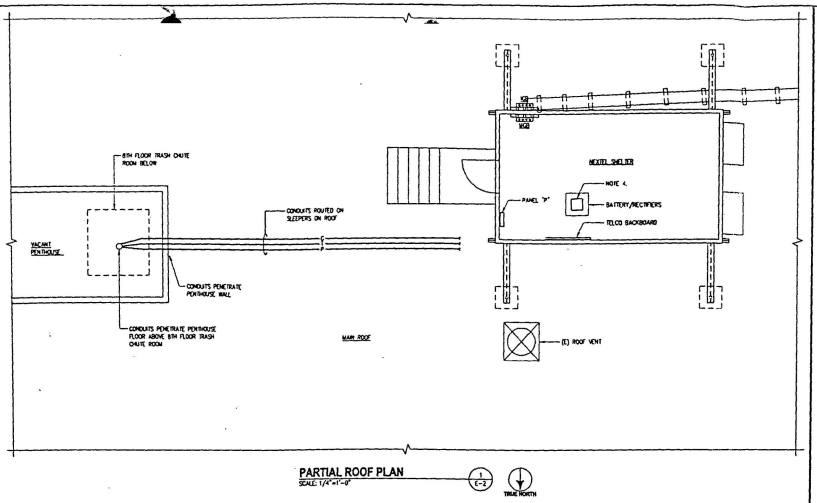
NEXTEL
4340 East West Hwy.
BETHESDA, MD 20814
PHONE: (301) 951-2800

PROJECT NO: 1002.002
DESIGNER: A.J.
ENGINEER: A.L.S.
SCALE:
0 1/2 1
GRAPHIC SCALE IN INCHES

DC-0954
OCC
301 G STREET, SW
WASHINGTON, DC 20024

TITLE:
ELECTRICAL SPECIFICATIONS, LEGEND AND SCHEDULES

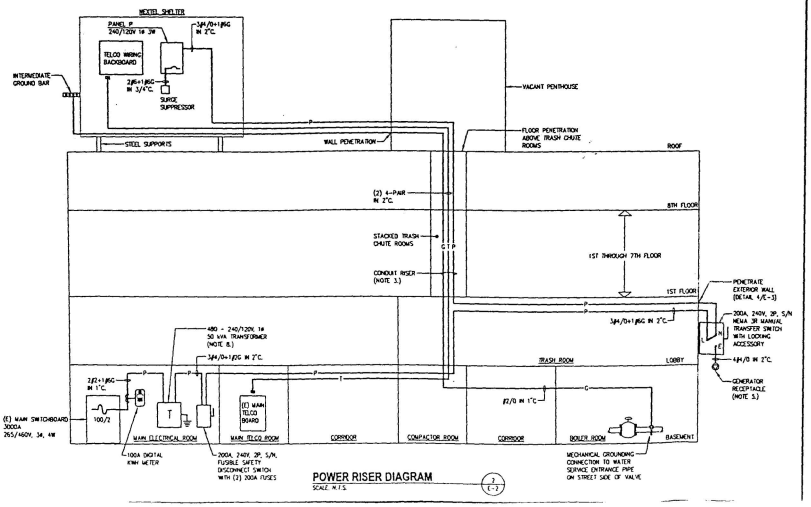
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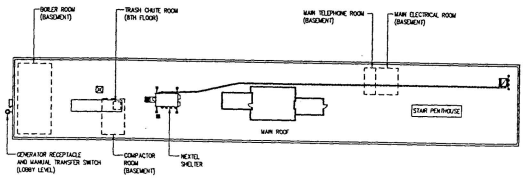
PARTIAL ROOF PLAN
SCALE: 1/4"=1'-0"

DRAWING NOTES

1. CONDUCTORS SHALL BE INSTALLED IN ENT UNLESS NOTED OTHERWISE.
2. NEXTEL TO PROVIDE SURGE SUPPRESSOR FOR TELCO BOARD SERVING NEW EQUIPMENT. THE SURGE SUPPRESSOR TO BE INSTALLED BY CONTRACTOR AND GROUNDED TO MGB.
3. SEAL AROUND PENETRATIONS RESULTING FROM CONDUIT ROUTING WITH FIRE-STOPPING FOAM SEALANT HAVING A UL-LISTED RATING OF 2 HOURS. HAMMER-DRILLING IS NOT PERMITTED.
4. PROVIDE 20 #10+1#10G IN 2" CONDUIT FROM PANEL 'P' TO PULL BOX ABOVE BATTERY/RECTIFIER STACK.
   PROVIDE (3) 1" FLEXIBLE LIQUIDTIGHT METAL CONDUIT "DROPS" 8' IN LENGTH, FROM PULL BOX AS FOLLOWS:
   1) 6#10+3#10G, CIRCUITS 3,7,9,11,13,15.
   2) 6#10+3#10G, CIRCUITS 4,6,8,10,12,14,16.
   3) 6#10+3#10G, CIRCUITS 17,19,21,23,18,20.
   LABEL EACH CIRCUIT'S PIGTAIL WIRES AT DROPS WITH THEIR CIRCUIT NUMBERS.
5. PROVIDE GENERATOR CONNECTOR RECEPTACLE AND ENCLOSED CITCUIT BREAKER IN LOCATION SUITABLE FOR PORTABLE GENERATOR ACCESS. COORDINATE WITH BUILDING OWNER FOR EXACT LOCATION. PAINT TO MATCH EXISTING WALL COLOR.
6. PROVIDE GROUNDING CLAMP ON STREET SIDE OF WATER SEVICE ENTRANCE PIPE VALVE.
7. BOND TRANSFORMER TO NEXTEL GROUNDING CONDUCTOR WITH #6.
8. CODE CONFORMING CLEARANCES ARE IN EXISTING MAIN ELECTRICAL ROOM.



POWER RISER DIAGRAM
SCALE: N.T.S.



KEY PLAN
SCALE: 1"=40'-0"

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SEAL:
DISTRICT OF COLUMBIA
CAMILLE F. BRASSEUR
10867
REGISTERED
PROFESSIONAL ENGINEER

NEXTEL
4340 East West Hwy.
BETHESDA, MD 20814
PHONE: (301) 951-2800

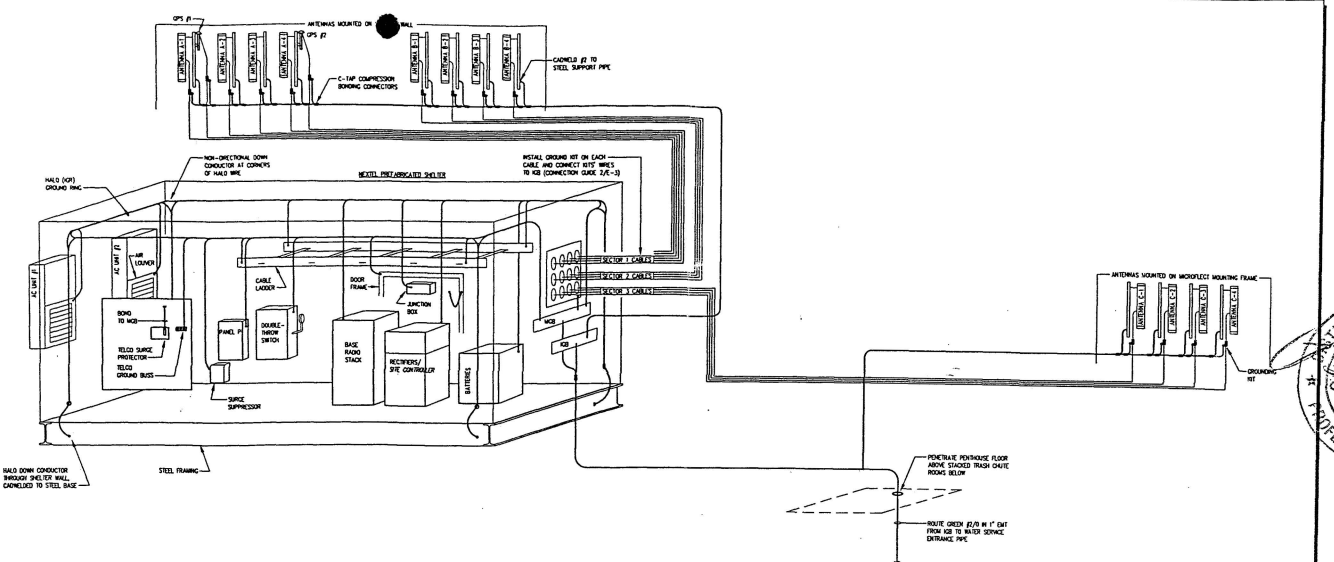
PROJECT NO:	1002.002
DESIGNER:	A.J.
ENGINEER:	A.L.S.

SCALE:
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GRAPHIC SCALE IN INCHES

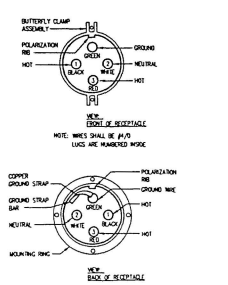
DC-0954
OCC
301 G STREET, SW
WASHINGTON, DC 20024

TITLE:
ELECTRICAL PLANS AND DIAGRAM

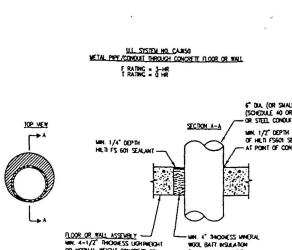
SHEET NUMBER:
E-2



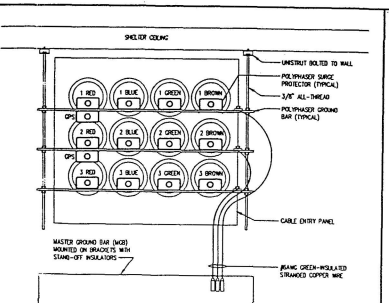
GROUNDING RISER DIAGRAM (1/E-3)
SCALE: N.T.S.



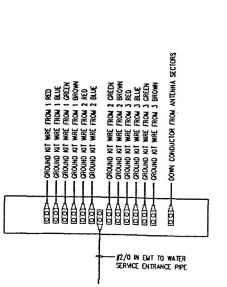
APPLETON GENERATOR RECEPTACLE (1/E-3)
SCALE: N.T.S.
CAT. NO. AJA2003430015
200A 3 WIRE 4 POLE



WALL PENETRATION DETAIL (TYPICAL) (1/E-3)
SCALE: N.T.S.



POLYPHASER MOUNTING ELEVATION (VIEWED FROM INSIDE SHELTER) (3/E-3)
SCALE: N.T.S.



INTERMEDIATE GROUND BAR CONNECTION GUIDE (2/E-3)
SCALE: N.T.S.

entrex
communication services, inc.
1575 Eye Street, N.W. Suite 350
WASHINGTON, D.C. 20005
PHONE: (202)408-0960
FAX: (202)408-0961

SUBMITTALS

DATE	DESCRIPTION	REV.
08-23-00	CONSTRUCTION REVIEW	
10-13-00	FOR PERMIT	
01-11-01	FOR CONSTRUCTION	

DISTRICT OF COLUMBIA
CARLTON E. SHAFFER
10557
REGISTERED
PROFESSIONAL ENGINEER

NEXTEL
4340 East West Hwy.
BETHESDA, MD 20814
PHONE: (301) 951-2800

PROJECT NO:	1002.002
DESIGNER:	A.J.
ENGINEER:	A.L.S.

SCALE:
0 1/2 1
GRAPHIC SCALE IN INCHES

DC-0954
OCC
301 G STREET, SW
WASHINGTON, DC 20024

TITLE:

GROUNDING DIAGRAM AND DETAILS

SHEET NUMBER:
E-3