

RCY DT Rapid City

MEMORANDUM OF BUILDING LEASE AGREEMENT

This Memorandum dated this _____ day of _____, 2002, by and between The Turnac Group, L.L.C., a South Dakota limited liability company, 1301 West Omaha Street, Suite 207, Rapid City, South Dakota 57701 ("LESSOR") and Cellular Inc. Network Corporation, a Colorado corporation, d/b/a Verizon Wireless, 180 Washington Valley Road, Bedminster, New Jersey, 07921 ("LESSEE"), is a record of that Building Lease Agreement ("Agreement") between LESSOR and LESSEE dated _____, 2002, which Agreement includes in part the following terms:

1. Leased Premises. The Agreement pertains to real property consisting of space on the roof and in Lessor's building located at 909 Saint Joseph Street, Rapid City, South Dakota 57701, more specifically described on **Exhibit A** attached hereto and made a part hereof together with the non-exclusive right for ingress and egress, seven (7) days a week, twenty-four (24) hours a day for the purpose of installation and maintenance of the demised premises, which building space, access thereto and space for electrical and telephone utilities, are collectively referred to hereinafter as the "Premises," legally described on Exhibit A.

2. Term of Agreement and Renewals. The initial term of the Agreement is for a five-year (5) period commencing on the first day of the month following the date the Agreement was executed by the parties or the first day of the month following the date LESSEE commences construction, whichever event occurs last. LESSEE has the right to extend the lease term for at least four (4) additional five-year (5) periods.

3. Successors and Assigns. The terms, covenants and provisions of the Agreement extend to and are binding upon the respective executors, administrators, heirs, successors and assigns of LESSOR and LESSEE.

4. Ratification of Agreement. The parties, by this Memorandum, intend to record a reference to the Agreement and do hereby ratify and confirm all of the terms and conditions of the Agreement and, do hereby declare that the Leased Premises described in **Exhibit A** attached hereto is in all respects subject to all of the applicable provisions contained in the Agreement.

LESSOR:

The Turnac Group, L.L.C.,
a South Dakota limited liability
company

By: *Bryan K. Gonzalez*

Name: *Bryan K. Gonzalez*

Its: *Administrator*

LESSEE:

Cellular Inc. Network Corporation
d/b/a Verizon Wireless
a Colorado corporation

By: _____

Name: _____

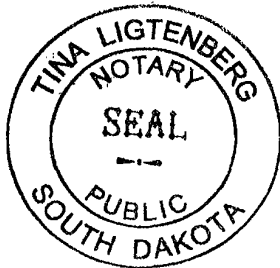
Its: _____

ACKNOWLEDGEMENTS

STATE OF South Dakota
COUNTY OF Pennington) ss.

On this 19th day of June, 2002, before me, the undersigned, a Notary Public in and for the State of South Dakota, duly commissioned and sworn, personally appeared Bryan Gonzalez to me known to be the Administrator of The Turnac Group, L.L.C., a South Dakota limited liability company, the limited liability company that executed the foregoing instrument, and acknowledged said instrument to be the free and voluntary act and deed of the limited liability company, for the uses and purposes therein mentioned, and on oath stated that he/she is authorized to execute the said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.



Tina Ligtensberg
Print or Type Name: Tina Ligtensberg
Notary Public in and for the State of SD
Residing at 212 42nd St, Rapid City SD 57702
My appointment expires: 3/16/2007

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 2002, before me, the undersigned, a Notary Public in and for the State of _____, duly commissioned and sworn, personally appeared _____ to me known to be an authorized representative of Cellular Inc. Network Corporation d/b/a Verizon Wireless, the corporation that executed the foregoing instrument, and acknowledged said instrument to be the free and voluntary act and deed of the corporation, for the uses and purposes therein mentioned, and on oath stated that he/she is authorized to execute the said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Print or Type Name: _____
Notary Public in and for the State of _____
Residing at _____
My appointment expires: _____

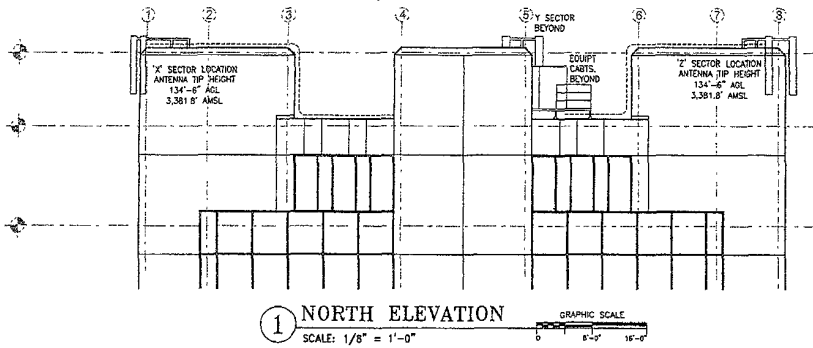
THIS DOCUMENT WAS DRAFTED BY
AND WHEN RECORDED RETURN TO:
Moss & Barnett (JDL)
a Professional Association
4800 Wells Fargo Center
90 South Seventh Street
Minneapolis, MN 55402-4129

Exhibit A

(Legal description):

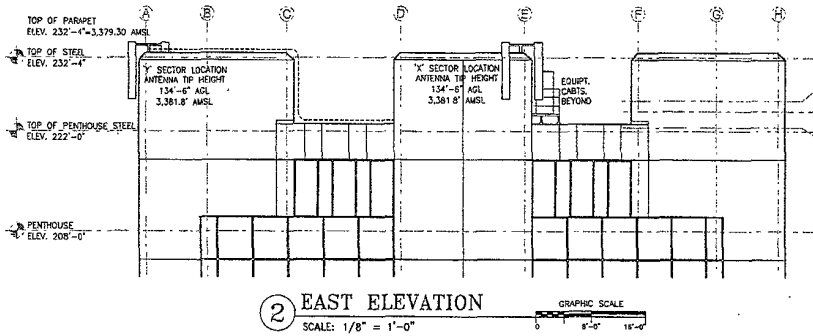
Page 1 of 2

Lots 1 through 16, inclusive, and Lots 21 through 24, inclusive, in Block 91, and Lots 12 and 13 in Block 101, all in the Original Townsite of the City of Rapid City, Pennington County, South Dakota.

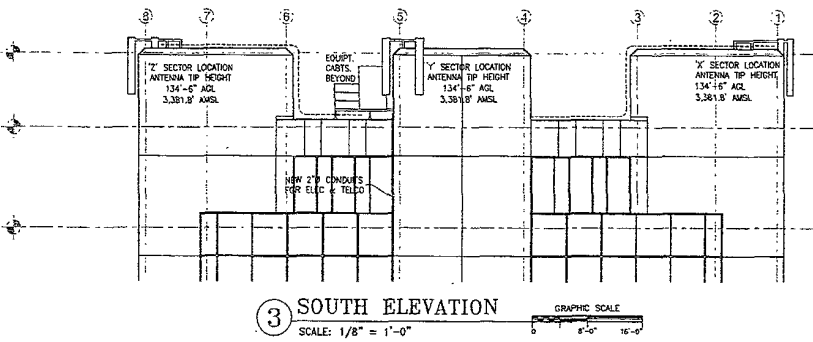


1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

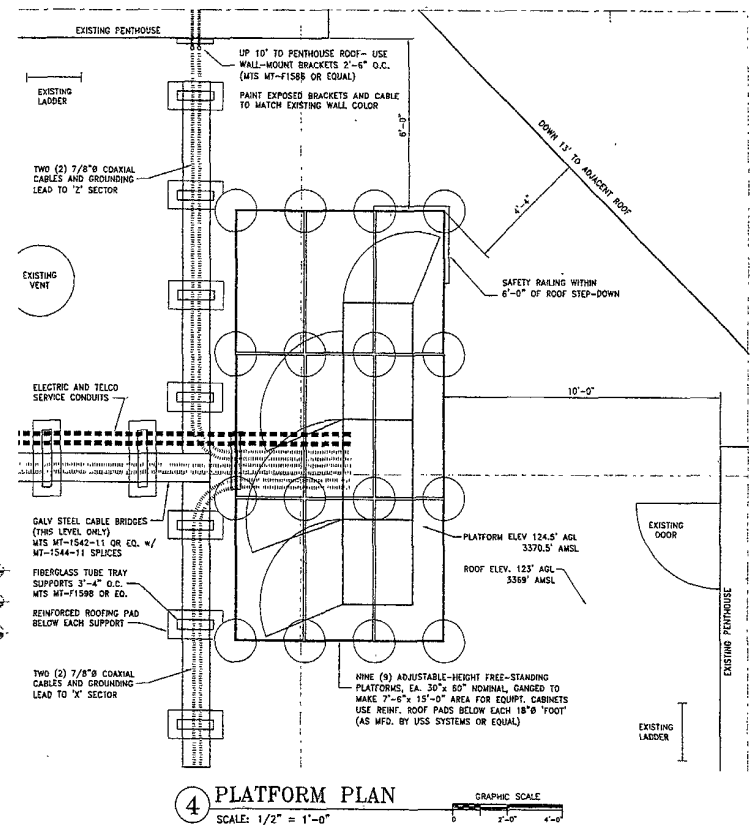
NOTE: ANTENNAS SHALL BE PAINTED COLOR SIMILAR TO EXISTING BUILDING WALLS (BUFF, TAN, BEIGE). CONTRACTOR SHALL FIELD-SAMPLE WALL COLOR FOR PROPER COLOR MIX.



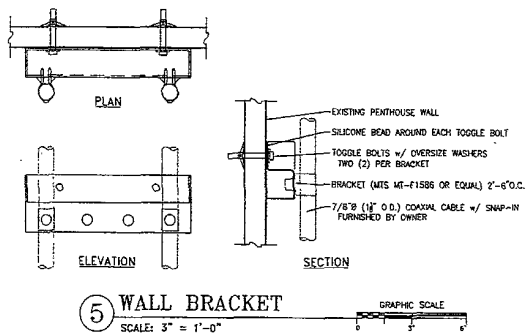
2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



4 PLATFORM PLAN
SCALE: 1/2" = 1'-0"



5 WALL BRACKET
SCALE: 3" = 1'-0"

PROJECT: 01066303584
RCY DT RAPID CITY
 909 ST. JOSEPH STREET
 RAPID CITY, SD 57701

VERIZON WIRELESS
 9505 8th Avenue North
 Plymouth, MN 55442
 (763) 955-5102

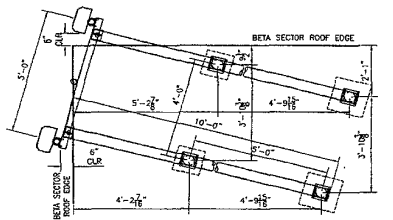
DESIGN
 ARCHITECTS
 ROBERT J. JANDA, P.E.
 ARCHITECT
 1000 W. WASHINGTON ST.
 SUITE 200
 ST. LOUIS, MO 63103

SHEET CONTENTS:
 EXTERIOR PARTIAL ELEVATIONS
 EQUIPMENT PLATFORM PLAN

DRAWN BY: DMW/
 DATE: 28 OCT 02
 CHECKED BY: TRB

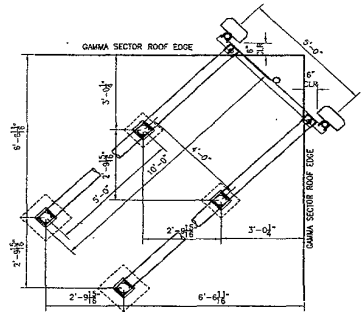
REV. A
 REV. B

A-2

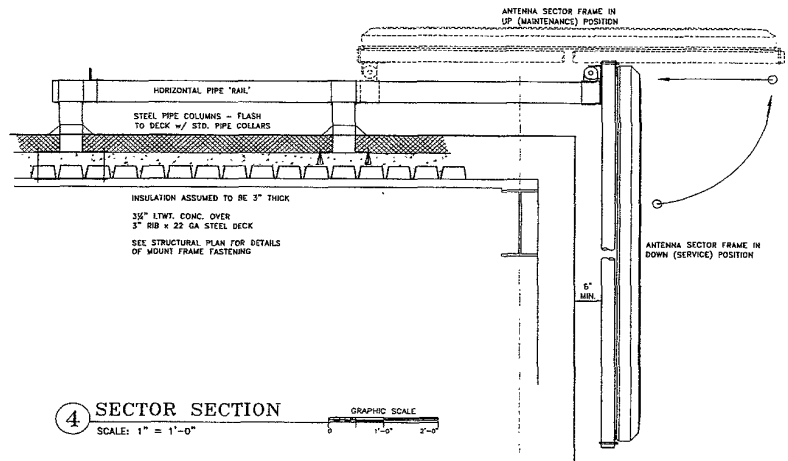
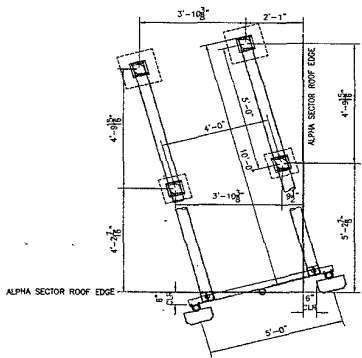


① Y SECTOR PLAN
SCALE: 1/2" = 1'-0"

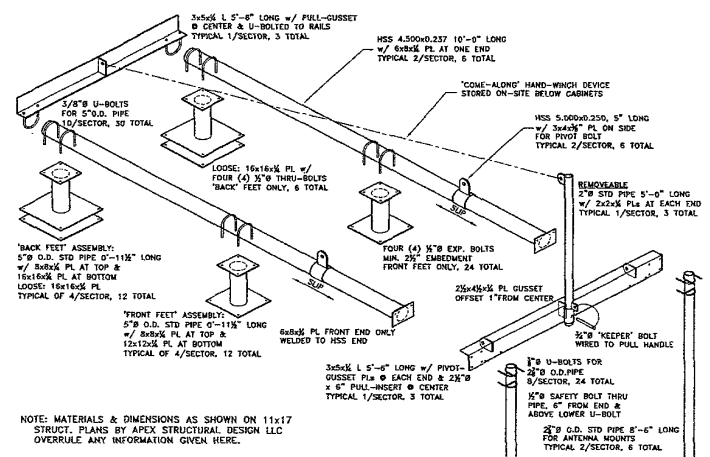
② Z SECTOR PLAN
SCALE: 1/2" = 1'-0"



③ X SECTOR PLAN
SCALE: 1/2" = 1'-0"



④ SECTOR SECTION
SCALE: 1" = 1'-0"



⑤ EXPLODED VIEW
SCALE: 3/4" = 1'-0"

NOTE: MATERIALS & DIMENSIONS AS SHOWN ON 11x17
STRUCT. PLANS BY APEX STRUCTURAL DESIGN LLC
OVERRIDE ANY INFORMATION GIVEN HERE.

11/16/2024
DESIGNED BY: [Name]
DRAWN BY: [Name]
CHECKED BY: [Name]
PROJECT: DT RAPID CITY
RADIO CITY
ANTENNA MOUNT SECTION

DESIGN
ROBERT L. JOSEPH, P.E.
REGISTERED PROFESSIONAL ENGINEER
STATE OF SOUTH DAKOTA
NO. 1116

9505 520th Avenue North
Suite # 120
Plymouth, WI 53442
(262) 834-0000

VERIZON WIRELESS

PROJECT: 01066303584
RADIO CITY
DT RAPID CITY
9009 ST. JOSEPH STREET
RAPID CITY, SD 57701

SHEET CONTENTS:
ANTENNA DETAIL PLANS
ANTENNA MOUNT SECTION

DRAWN BY: DMW
DATE: 28 OCT 02
CHECKED BY: TRB

REV. A
REV. B

A-3

OUTLINE SPECIFICATIONS

GENERAL CONDITIONS

00 0001 PERMITS

Construction Permit shall be acquired by, or in the name of, VERIZON WIRELESS, to be hereinafter referred to as the OWNER. Other permits shall be acquired by the Contractor.

00 0002 SURVEY FEES

Survey shall be furnished by the Owner. Layout Staking shall be coordinated with the Owner's Surveyor.

01 0010 INSURANCE & BONDS

Contractor is to furnish insurance certificates for themselves and subcontractors. Contractor will provide any required Bonding Contractor agrees to warrantily the project for one year after completion.

01 0400 SUPERVISION & COORDINATION

Contractor shall provide supervision throughout the Project, coordinating the work of the Subcontractors, and delivery & installation of Owner-furnished items. Contractor's responsibilities include arranging & conducting of Underground Utilities Locates. Contractor shall comply with municipal, county, state and/or federal codes, including OSM.

01 0600 TESTING

Contractor is responsible for providing Architect with sufficient notice to arrange for Test Samples (i.e., Concrete Cylinders), and for Special Inspections.

01 2000 MEETINGS

Contractor shall make themselves aware of, and attend, meetings with the Owner and/or Architect. Contractor is to attend a Pre-Construction Meeting of all parties involved, prior to the start of construction.

01 5100 TEMPORARY UTILITIES

Contractor shall maintain the job site in a clean and orderly fashion, providing temporary sanitary facilities, waste disposal, and security (fence area or trailer module).

01 5300 EQUIPMENT RENTAL

Contractor shall furnish equipment necessary to expedite Work.

01 5900 FIELD OFFICES & SHEDS

Contractor shall provide security (fence area or trailer module) for tools and materials that remain overnight on site.

01 7000 CLEAN UP & CLOSE OUT

Contractor shall clean up the Site to the satisfaction of Owner. Contractor shall complete the items listed on the Owner's Punch List, and shall sign and return the List to the Owner. Contractor shall maintain a set of drawings during the job, on which changes shall be noted. Red-lined drawings (as-built) are to be given to the Architect at Job completion.

01 8000 TRUCKS & MILEAGE

Contractor shall provide transportation for their own personnel.

01 8300 TRAVEL TIME & PER DIEM

Contractor shall provide room and board for their own personnel, and reasonable time for traveling to & from job site.

01 9200 TAXES

Contractor shall pay sales tax on materials and taxable services.

SITWORK

02 1000 SITE PREPARATION & DEMOLITION

Contractor is to mobilize within 7 calendar days of the Owner issuing a "START" document. Contractor will immediately report to Architect if any environmental considerations arise. See 07 5000 for roofing demolition.

02 1100 ROAD IMPROVEMENT & CONSTRUCTION

Not applicable.

02 2000 EARTHWORK & EXCAVATION

Not applicable.

02 5000 PAVING & SURFACING

Not applicable.

02 7800 POWER TO SITE

Contractor shall coordinate the electrical service to the cabinets with the Utility Provider. Conducts shall be rigid galvanized, with pull strings. Service shall be 200 amp, single phase, 120/240 volt.

02 7900 TELCO TO SITE

Contractor shall provide 2" rigid galvanized conduit with 'large sweep' elbows & pull string for TELCO service, as noted on plans.

02 8000 SITE IMPROVEMENTS

Not applicable.

02 8001 FENCING

Not applicable.

02 8500 IRRIGATION SYSTEMS

Not applicable.

02 9000 LANDSCAPING

Not applicable.

CONCRETE

03 1000 CONCRETE FORMWORK

Not applicable.

03 6000 GROUT

Not applicable.

03 800 TOWER FOUNDATION

Not applicable.

03 8001 CATHODIC PROTECTION

Not applicable.

03 8050 TRANSPORT AND ERECT TOWER

Not applicable.

03 9000 SHELTER FOUNDATION

Not applicable.

03 9050 TRANSPORT AND SET CABINETS

Contractor shall contact Owner to coordinate delivery, and provide means to place cabinets, antennas, cable spools, etc. at their final roof levels.

MASONRY

04 0000 MASONRY

Not applicable.

METALS

05 0000 METALS

Contractor will furnish and install structural and fabricated steel items. Structural steel shall be fabricated and erected per AISC specifications. Welding shall conform to AWS standards. Field welding shall be as shown on Shop Drawings, performed by AWS Certified Welders, and inspected as prescribed by the Structural Engineer. Steel shall be ASTM A36, and 1/2" field bolts shall be A325. Temporary erecting bolts, slip hangers, and bracing shall be furnished by Contractor. Fabrications shall be shop welded, if possible, and galvanized or primed before delivery to site.

WOOD & PLASTICS

06 1000 ROUGH CARPENTRY

Not applicable.

06 2000 FINISH CARPENTRY

Not applicable.

THERMAL & MOISTURE

07 2000 INSULATION

Not applicable.

07 2500 FIREPROOFING

Not applicable.

07 3000 SHINGLES AND ROOFING TILES

Not applicable.

07 5000 MEMBRANE ROOFING

Contractor shall provide 1" foam-backed 4' 8' plywood sheets, ballasted with at least two (2) inch18 CMI blocks per panel, in heavy use areas (travel, staging, and work) as protection for the existing roof membrane, unless existing reinforced flat areas are deemed sufficient by all parties. Contractor shall confirm with Lesnor whether the roof is bonded; if so, Contractor shall take all measures needed to conform to warranty requirements. Cutting the membrane and insulation shall be done neatly, and patched back immediately after steel frame installation is complete, to minimize potential leakage. Standing water in the work areas must be removed or drained off prior to cutting roof.

07 6000 FLASHING AND SHEET METAL

Not applicable.

DOORS AND HARDWARE

08 0000 DOORS AND HARDWARE

Not applicable.

FINISHES

09 2600 DRYWALL

Not applicable.

09 3700 FLOOR COVERING

Not applicable.

09 9000 PAINTING

Contractor shall paint wall-mounted items (exposed conduits, cables, mounting brackets, etc.) to match color of existing building walls. Contractor shall submit color to Architect for approval prior to painting.

SPECIAL CONSTRUCTION

13 1250 WAVE GUIDE

Contractor shall furnish and install Wave Guide mounting materials (roof brackets, cable bridges, wall brackets, etc.).

13 1260 CABLE BRIDGE & SHELD

Not applicable.

13 1400 ANTENNA INSTALL

Contractor shall provide means to place antennas, cable spools, and other RF equipment on the roof levels. Contractor shall test & sweep each line, and submit a report to the Owner.

MECHANICAL

15 4000 PLUMBING

Not applicable.

15 5000 HVAC

Not applicable.

ELECTRIC

15 5000 LIGHTING AND ELECTRICAL

Refer to sheets E1 & E2. Contractor shall provide 200A 1Ø 120/240V service to cabinets, including conduit, wire, grounding, ringless meter base w/commencement boxes, transfer, permits, and power company coordination. Contractor shall furnish and install equipment listed below, and provide all other materials necessary to complete the work shown on plans. Contractor shall ensure the Meter Base complies with Utility Provider (Block 1615 Power, (605) 721-2231, Don Dubé) requirements.

16 6000 GROUNDING

Refer to plan sheet G1 for more information. Contractor shall make themselves familiar with and follow the current GROUNDING STANDARDS of VERIZON WIRELESS. Contractor shall furnish & install lightning grounding materials. Contractor shall furnish tools including "shots" & "molds"/hydraulic ram and fittings, needed to complete mathernic connections/ compression connections. Any site-specific grounding issues not covered by the GROUNDING STANDARD are to be addressed by the Contractor to the Owner.

OWNER FURNISHED EQUIPMENT & FEES

EQUIPMENT CABINETS

COAXIAL CABLE & CONNECTORS
ANTENNAS AND MOUNTING BRACKETS

BUILDING PERMIT

MATERIALS TESTING
SPECIAL INSPECTIONS

SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION, SUPERVISION, ETC. TO FULLY EXECUTE WORK. WORK REQUIREMENTS ARE DETAILED ON THE DRAWINGS AND SPECIFICATIONS AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:

DEMOLITION & SITE PREPARATION

CABINET PLATFORM
SITE GROUNDING
ELECTRICAL AND TELEPHONE SERVICES
STEEL ANTENNA MOUNT FRAMES
CABLE BRIDGES & SUPPORTS

VERIZON WIRELESS
10000 VERIZON DRIVE
DALLAS, TEXAS 75243
PH: 972.764.1000
FAX: 972.764.1001
PROJECT NUMBER: 101-11111

DESIGN
ARCHITECTURE
ENGINEERING
PLANNING
AND
CONSTRUCTION
SERVICES
1801 HALLMARK AVENUE
SUITE 100
DALLAS, TEXAS 75243
PH: 972.764.1000
FAX: 972.764.1001

9555 57th Avenue North
Suite # 100
Dallas, TX 75243
PH: 972.764.1000
FAX: 972.764.1001

VERIZON
WIRELESS

PROJECT: 01066303584

RCY
DT RAPID CITY
900 ST. JOSEPH STREET
RAPID CITY, SD 57701

SHEET CONTENTS:
OUTLINE SPECIFICATIONS

DRAWN BY: DMW
DATE: 28 OCT 02
CHECKED BY: TRB

REV. A

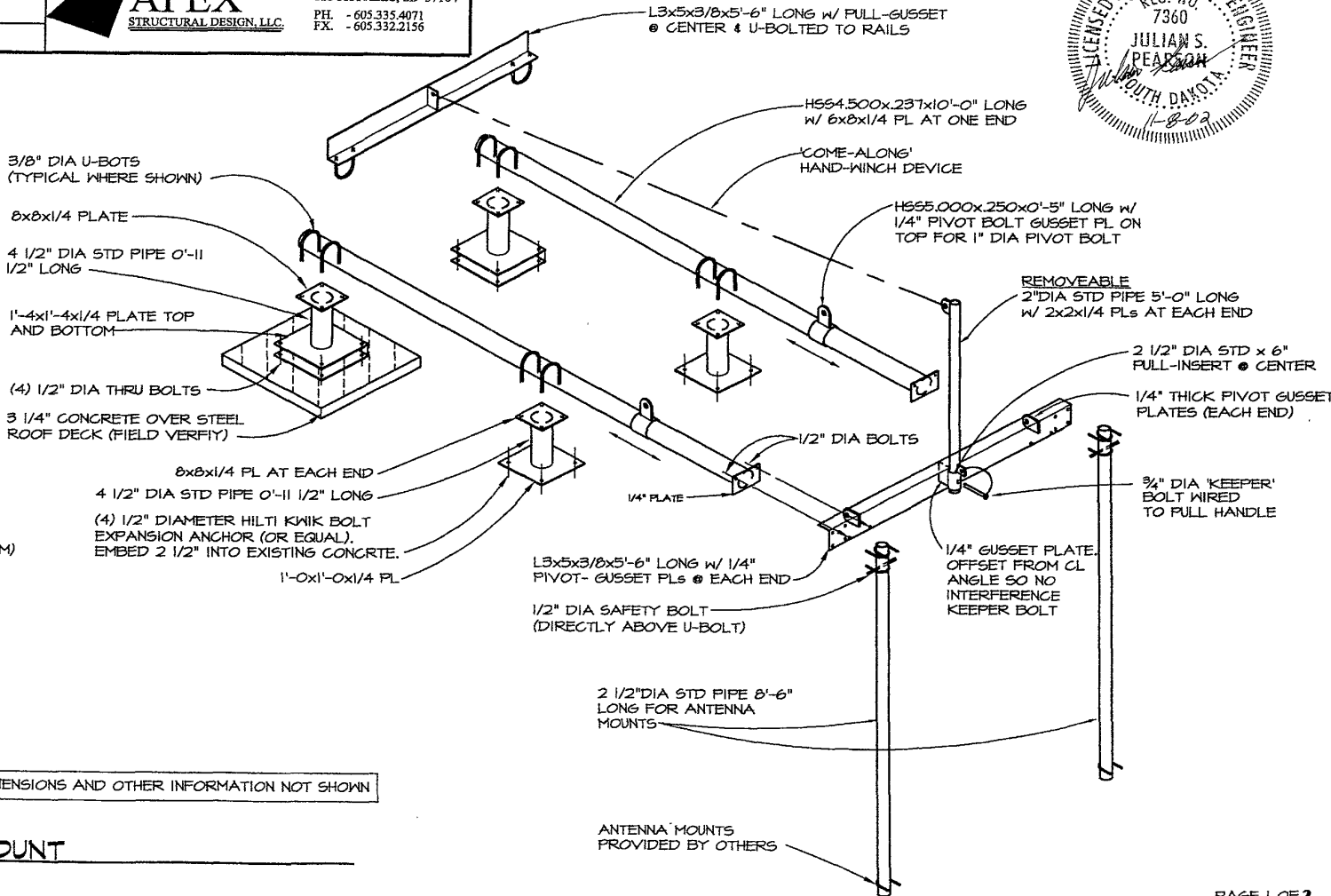
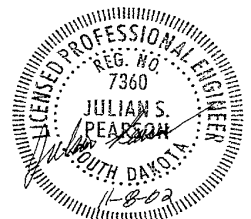
REV. B

A-4

JOB NAME:	RCY DT RAPID CITY
DRAWN:	JP
CHECKED:	TN
FILE REF:	2002/DESIGN 1/



TRENT NELSON, P.E.
 PRESIDENT
 405 SOUTH 3RD AVENUE
 SUITE 101
 SIOUX FALLS, SD 57104
 PH. - 605.335.4071
 FX. - 605.332.2156



DESIGN CRITERIA

1. STEEL- BOLTS, A36 OR A307 (MINIMUM) PIPE, ASTM A53 ROUND H55; ASTM A500
2. GRAVITY LOADS: TOTAL WEIGHT OF ANTENNA AND FRAME ASSEMBLY PLUS 50# ICE ACCUMULATION ON ANTENNA
3. WIND: 50 PSF (80 MPH, EXP "D", HEIGHT=232')

NOTE: SEE ARCH DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SHOWN

TYPICAL MOUNT
 NO SCALE

JOB NAME:	RCY DT RAPID CITY
DRAWN:	JP
CHECKED:	TN
FILE REF:	2002/DESIGN V



TRENT NELSON, P.E.
 PRESIDENT
 405 SOUTH 3RD AVENUE
 SUITE 101
 SIOUX FALLS, SD 57104
 PH. - 605.335.4071
 FX. - 605.332.2156



STRUCTURAL SPECIFICATIONS

DESIGN CRITERIA

SEISMIC ZONE: 0
 DESIGN CODE: 1997 UNIFORM BUILDING
 DESIGN LOADS: SEE PLAN

MATERIAL SPECIFICATIONS

STRUCTURAL STEEL:
 CONNECTION BOLTS: A307
 THREADED RODS: A36
 ROUND HSS: ASTM A500 GRADE B, $F_y = 46$ KSI
 PIPE: ASTM A53
 ALL OTHER SECTIONS: ASTM A36

STRUCTURAL STEEL

ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE. ALL STRUCTURAL STEEL SUPPLIERS MUST BE AISC CERTIFIED.

CONSTRUCTION INSPECTIONS

THE OWNER IS RESPONSIBLE FOR EMPLOYING A REGISTERED STRUCTURAL ENGINEER TO COMPLETE STRUCTURAL INSPECTIONS DURING THE CONSTRUCTION OF THE PROJECT IN ORDER TO ENSURE THAT THE GENERAL REQUIREMENTS SET FORTH IN THE STRUCTURAL PLANS AND SPECIFICATIONS ARE COMPLETED. INSPECTION REPORTS MUST BE WRITTEN AND SUBMITTED TO APEX STRUCTURAL DESIGN PRIOR TO COMPLETION OF THE PROJECT.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS MUST BE COMPLETED ACCORDING TO THE BUILDING CODE. SPECIAL INSPECTIONS ARE THE RESPONSIBILITY OF THE OWNER. THE FOLLOWING INSPECTIONS MUST BE COMPLETED:

- * NONE REQUIRED

LIMIT OF LIABILITY

THE STRUCTURE AS SHOWN ON PAGE 2 OF THESE PLANS IS INTENDED FOR USE ON THE ROOF OF THE FIRST FEDERAL PLAZA IN RAPID CITY AS SHOWN ON THE ARCHITECTURAL PLANS. THE RE-USE OF THIS PLAN FOR CONSTRUCTION OF MORE OF THESE STRUCTURES IN OTHER LOCATIONS OR ON OTHER BUILDINGS IS PROHIBITED. APEX STRUCTURAL DESIGN, LLC. MAY NOT BE HELD LIABLE FOR MULTIPLE USE OF THIS STRUCTURE ON MULTIPLE BUILDINGS.

THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE GENERAL CONTRACTOR MUST VERIFY THE REQUIREMENTS BY THE OTHER DISCIPLINES AND TRADES WHEN THEIR REQUIREMENTS AFFECT THE STRUCTURAL DESIGN. LOCATION OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT MUST BE VERIFIED WITH THE APPROPRIATE DESIGNER AND SUPPLIER.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH APPLICABLE SAFETY CODES AND STANDARDS DURING THE CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR ASSOCIATED WITH EACH INDIVIDUAL TRADE IS SOLELY RESPONSIBLE FOR THE METHODS AND TECHNIQUES OF CONSTRUCTION FOR THAT TRADE. SUPERVISION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

THE STRUCTURAL DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE SPECIFIC AREAS ARE NOT DETAILED, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO THE ENGINEER'S APPROVAL.

CONSTRUCTION LOADS PLACED ON THE STRUCTURE SHALL NOT EXCEED THE DESIGN LIVE LOADS SET FORTH IN THE DESIGN CRITERIA.

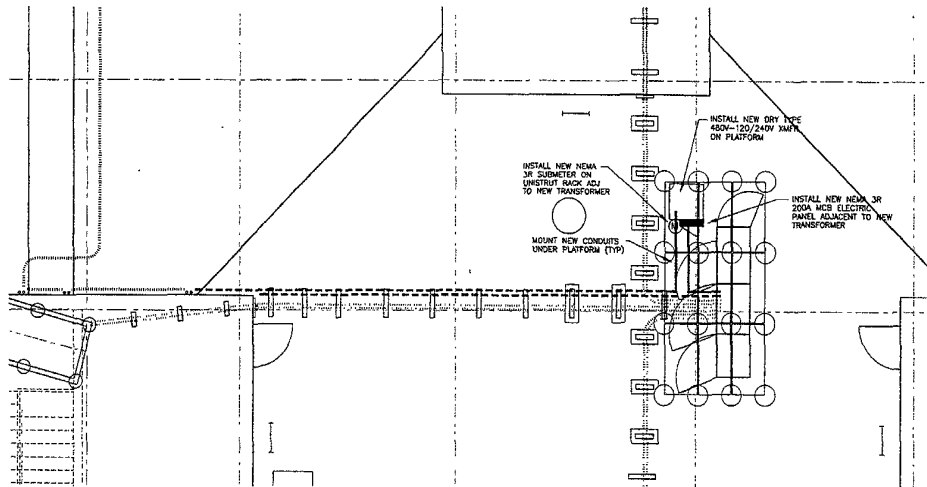
THE REVIEW OF SHOP DRAWINGS IS TO VERIFY GENERAL CONFORMANCE WITH THE ORIGINAL DESIGN AND SPECIFICATIONS. REVISIONS OR COMMENTS DO NOT RELIEVE THE CONTRACTOR AND / OR SUPPLIER FROM COMPLIANCE WITH THE ORIGINAL PLANS AND SPECIFICATIONS. THE CONTRACTOR AND / OR SUPPLIER IS RESPONSIBLE FOR THE VERIFICATION OF DIMENSIONS, THE FABRICATION PROCESSES AND THE COMPLETION OF WORK ACCORDING TO APPLICABLE CODES AND STANDARDS. SHOP DRAWING REVIEW WILL BE COMPLETED WITHIN 10 WORKING DAYS AFTER RECEIPT OF THE SHOP DRAWINGS.

REFER TO ARCHITECTURAL DRAWINGS FOR VERIFICATION OF DIMENSIONS. CONTACT ARCHITECT AND ENGINEER IF DIMENSIONING DISCREPANCIES OCCUR. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE STRUCTURAL ENGINEER MAY NOT BE HELD LIABLE FOR DIMENSIONING DISCREPANCIES.

TEMPORARY BRACING DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

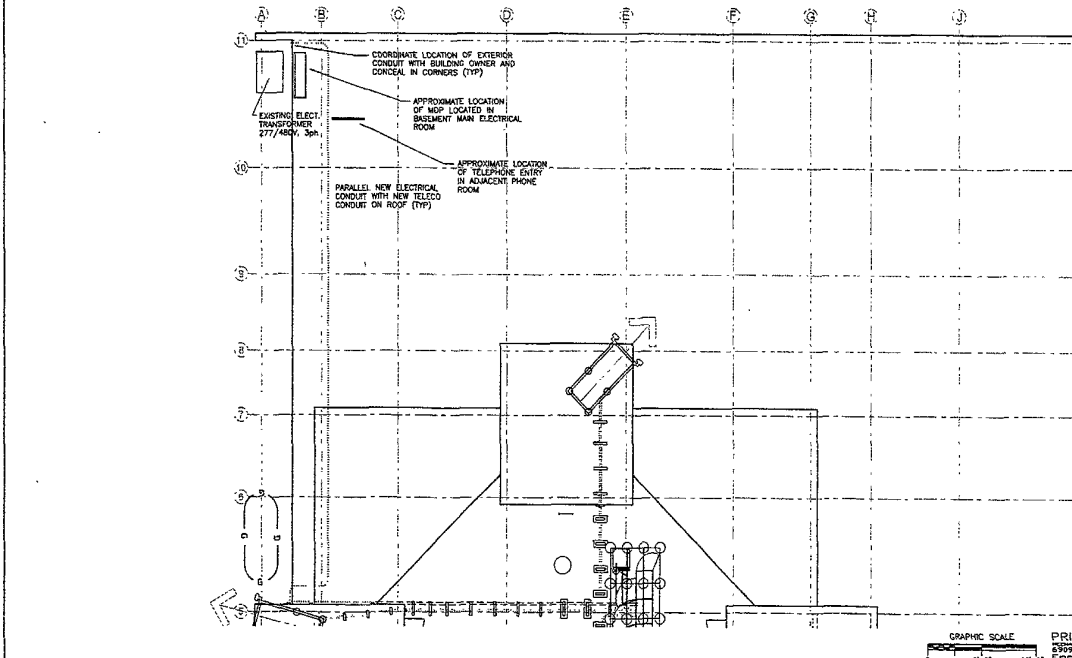
1. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
3. HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
4. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
5. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLEIGH, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.).
6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "I" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NFPA.
8. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
9. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS.
10. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
11. ALL CONDUIT ONLY (C.O.) SHALL HAVE A RIGID W/BORE.
12. PROVIDE CONSTRUCTION MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
13. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
14. USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR.
15. ALL CONDUCTORS SHALL BE COPPER.
16. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND DRAWINGS.
18. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
19. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
20. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
21. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH SECTION NO. 4305 AND NO. 4302 OF THE U.S.C.
22. RECEPTACLES SHALL BE 20 AMPERE, 125 VOLT A.C., WHITE AS REQUIRED BY THE ARCHITECT OR APPROVED EQUAL.
23. WALL SWITCHES SHALL BE SINGLE-POLE, HUBBELL #1201 OR EQUIVALENT, WHITE AS REQUIRED BY THE ARCHITECT.
24. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS, SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE RAGO #800, 1/2" RAISED WORK COVERS.
25. WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM, NO BX OR ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
26. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.
27. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS, MANUFACTURED BY SQUARE D COMPANY OR APPROVED EQUAL. IF HOST FACILITY REQUIRES THE NEW SERVICE TO BE SUB-METERED FROM THE EXISTING SERVICE, SUB-METER SHALL BE OF THE 10a OR 10a TYPE.
28. ALL MATERIALS SHALL BE U.L. LISTED.
29. CONDUIT:
 - A. SERVICE CONDUITS SHALL BE GRAY SCH.40 PVC BURIED MIN. 24", EXCEPT THAT SCH.40 SHALL BE USED UNDER ROADWAYS AND IN LOCATIONS SUBJECT TO CASUAL IMPACTS. BENDS SHALL BE MADE USING "WIDE SWEEP" (12" MIN. RADIUS) ELBOW FITTINGS. ANY CODE-REQUIRED RIGID STEEL CONDUIT SHALL BE U.L. LABEL, GALVANIZED INSIDE & OUTSIDE. CONDUIT SHALL "EXTEND MIN. 24" BELOW GRADE (OR MINIMUM 6" BELOW FROST LINE), WITH "SWEEP" ELBOWS (12" MIN.) ENDING IN PVC TRANSITION FITTINGS. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAF-WRAPPED WITH HUNTS PROCESS NO. 3 EXTENDING MIN. 12" ABOVE GRADE.
 - B. INTERIOR CONDUITS SHALL BE ELECTRICAL METALLIC TUBING HAVING U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE.
 - C. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "MAX" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. NO SUCH CONDUIT SHALL EXCEED SIX FEET IN LENGTH.
30. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
31. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
32. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF BOTH TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR.

ROOF ELECTRICAL PLAN



GRAPHIC SCALE

SCALE: 1/4"=1'-0" AT 24"X36"



GRAPHIC SCALE

SCALE: 1/8"=1'-0" AT 24"X36"

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DESIGN
BY: ROBERT J. ADRIANO
PROJECT MANAGER
9935 - 59th Avenue North
Suite #120
Eden Prairie, MN 55442
(763) 936-5100

verizon wireless
9935 - 59th Avenue North
Suite #120
Eden Prairie, MN 55442
(763) 936-5100

PROJECT NO. 01/066.303/5584
RCY
DT RAPID CITY
909 ST. JOSEPH STREET
RAPID CITY, SD 57701

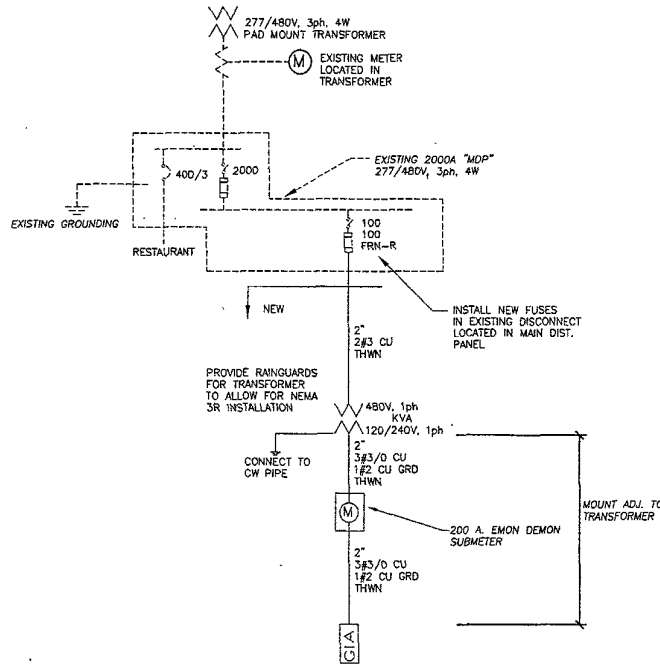
SHEET CONTENT:
ELECTRICAL SITE PLAN,
GENERAL NOTES, AND
SHELTER DETAILS

DRAWN BY: LRP
DATE: 9 DEC 02
CHKD BY: ADP
DATE: 9 DEC 02
REVISIONS

REV A
REV B

PRIEST ENGINEERING, INC.
5301 South Hwy. 101, Suite 301
Englewood, Colorado 80110
Ph: (303) 776-8710 Fax: (303) 776-8232

SHEET NO.
E-1



SCHEDULE - PANEL		NOTE: ALL BREAKERS 20A UNLESS NOTED OTHERWISE	
MFG. AS APPROVED		LIGHT	KVA @ 1P5% = KVA
TYPE PANELBOARD		RECEPT	KVA @ 100% = KVA
LUG LOC. TOP		MECH.	KVA @ 100% = KVA
AMPS 200A MCB		25% LARGEST MOTOR	KVA
VOLTAGE 120/240V 1ph 3W		SPECIAL	20.2 KVA @ 100% = 20.2 KVA
MOUNTING SURFACE		SPARE	KVA
BRACING 10,000 A.I.C.		TOTAL	48.0 KVA
POWER CABINET	10000	100 TVSS	100
SPARE	10000	SPARE	SPARE
SPARE	7	SPARE	SPARE
A phase = 10100 VA	B phase = 10100 VA	Total =	20200 VA

ELECTRICAL ONE LINE DIAGRAM AND PANEL SCHEDULE

PRIEST ENGINEERING, INC
 2509 South Hwy 101, Suite 200
 Englewood, Colorado 80110
 Ph: 303-772-8777 Fax: 303-772-8550

SCALE: NONE 2

SHEET NO. E-2

SHEET CONTENT:
 ONE LINE DIAGRAM &
 PANEL SCHEDULE

DRAWN BY: LRP
 DATE: 9 DEC 02
 CHKD BY: ADP
 DATE: 9 DEC 02
 REVISIONS

REV. A
 REV. B

PROJECT NO. 01066303584
 RCY
 DT RAPID CITY
 909 ST. JOSEPH STREET
 RAPID CITY, SD 57701

verizon wireless
 9955 - 59th Avenue North
 Suite #120
 Minneapolis, MN 55442
 (763) 992-5102

DESIGN
 2007 VALLEY VIEW ROAD
 SUITE 100
 MINNEAPOLIS, MN 55425
 (612) 920-0200 FAX 612-920-0202
 PROJECT ARCHITECT

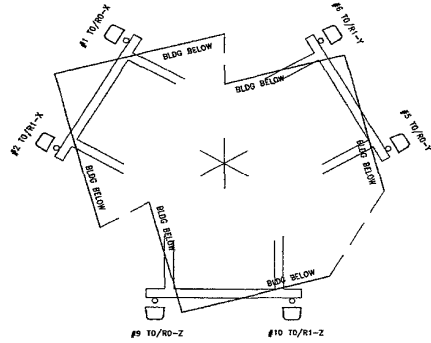
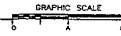
I hereby certify that this portion of the
 drawings was prepared by me or under my
 direct supervision and that I am a
 duly Licensed Professional Engineer
 in the State of Minnesota.

 PE, License No. 0000000000

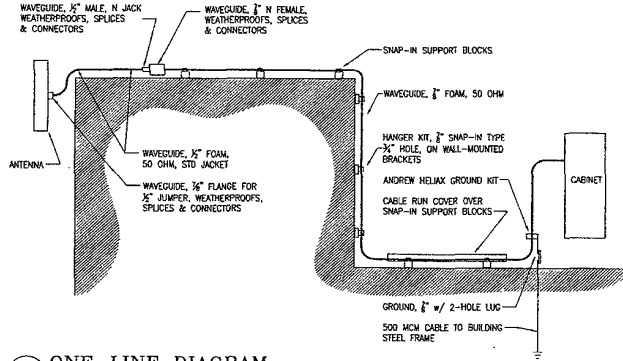
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	AZMUTH	NUMBER	FUNCTION	MANUFACTURER	MODEL	TYPE	LENGTH INCHES	TIP HEIGHT FEET	CENTER HT FEET	ELECTRICAL DOWNTILT	MECHANICAL DOWNTILT
"X" FACE	300°	#1	RXD/TX0	RFS	APL889014-42TD	PANEL	92	134.5	130.7		0°
	300°	#2	RXD/TX1	RFS	APL889014-42TD	PANEL	92	134.5	130.7		0°
		#3									
		#4									
"Y" FACE	060°	#5	RXD/TX0	RFS	APL889014-42TD	PANEL	92	134.5	130.7		0°
	060°	#6	RXD/TX1	RFS	APL889014-42TD	PANEL	92	134.5	130.7		0°
		#7									
		#8									
"Z" FACE	180°	#9	RXD/TX0	RFS	APL889014-42TD	PANEL	92	134.5	130.7		0°
	180°	#10	RXD/TX1	RFS	APL889014-42TD	PANEL	92	134.5	130.7		0°
		#11									
		#12									

COAX KEY												
	COAX TYPE	MANUFACTURER	MODEL	DIELECTRIC	DIAMETER (INCHES)	RUN (FEET)	TYPE	MFR	MODEL	DIELEC.	DIAM.	RUN
MAIN	MAIN	ANDREW	LDF5-SOA	FOAM	7/8"	68	JUMPER	ANDREW	LDF4-SOA	FOAM	1/2"	8'
	MAIN	ANDREW	LDF5-SOA	FOAM	7/8"	73	JUMPER	ANDREW	LDF4-SOA	FOAM	1/2"	8'
MAIN	MAIN	ANDREW	LDF5-SOA	FOAM	7/8"	87	JUMPER	ANDREW	LDF4-SOA	FOAM	1/2"	8'
	MAIN	ANDREW	LDF5-SOA	FOAM	7/8"	92	JUMPER	ANDREW	LDF4-SOA	FOAM	1/2"	8'
MAIN	MAIN	ANDREW	LDF5-SOA	FOAM	7/8"	82	JUMPER	ANDREW	LDF4-SOA	FOAM	1/2"	8'
	MAIN	ANDREW	LDF5-SOA	FOAM	7/8"	87	JUMPER	ANDREW	LDF4-SOA	FOAM	1/2"	8'

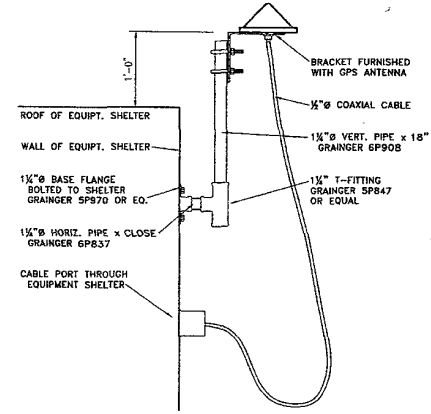
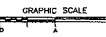
1 ANTENNA KEY
SCALE: NONE



2 ARRAY SCHEMATIC
SCALE: NONE



3 ONE-LINE DIAGRAM
SCALE: NONE



4 GPS ANTENNA DETAIL
SCALE: NONE



DESIGN
CONSTRUCTION
SERVICES
INC.
9965 57th Avenue North
Suite # 120
Eden Prairie, MN 55424
612-935-9900
www.designconstruction.com

VERIZON WIRELESS

PROJECT: 01065030584
RCY
DT RAPID CITY
908 ST. JOSEPH STREET
RAPID CITY, SD 57701

SHEET CONTENTS:
ANTENNA INFORMATION
DRAWN BY: DAW
DATE: 20 DEC 02
CHECKED BY:

REV. B

RF-1