

VILLAGE OF DOWNERS GROVE
REPORT FOR THE VILLAGE COUNCIL WORKSHOP
JUNE 10, 2008 AGENDA

SUBJECT:	TYPE:	SUBMITTED BY:
Resolutions and License Agreements with Denali Spectrum Operations, LLC	✓ Resolutions Ordinance Motion Discussion Only	Tom Dabareiner, AICP Community Development Director

SYNOPSIS

Three resolutions have been prepared to authorize the execution of three license agreements between the Village of Downers Grove and Denali Spectrum Operations, LLC (Denali) to install, maintain and operate antennas on Village property located on the water tower at 4318 Downers Drive, the water tower at 1724 71st Street and the Village Hall communication tower at 801 Burlington Avenue.

STRATEGIC PLAN ALIGNMENT

The Five Year Plan and Goals for 2007-2012 identified *Exceptional Municipal Organization*. Supporting this goal is the objective *Fiscally Sound and Sustainable Village Government*.

FISCAL IMPACT

The license agreements for each of the three sites are for a term of five years beginning upon the issuance of a building permit in 2008 and ending December 31, 2012. The agreements also provide for two five-year extension terms. After February 1, 2017, Denali may request the Village to enter into negotiations towards renewing or extending the agreements. The license fee per site will be \$3,200 per month through December 31, 2008, with a four percent increase each year thereafter.

RECOMMENDATION

Approval on the June 17, 2008, consent agenda.

BACKGROUND

Denali is a provider of digital communication services in the Chicagoland area. Denali contacted the Village concerning its desire to install antennas on the water tower at 4318 Downers Drive, the water tower at 1724 71st Street and the Village Hall communication tower at 801 Burlington Avenue. Associated equipment cabinets will be placed on the properties as well. Denali has worked with other providers to obtain the necessary easements in cases where Denali's equipment conflicts with existing equipment.

These license agreements are for only antenna on existing Village Council-approved cell sites that do not extend the height of the tower. As such, no special use approval is required pursuant to Section 28.1307(M) of the Zoning Ordinance.

The building permits for each of the three sites have been reviewed and approved by the Community Development Department pending approval of the license agreements. Staff recommends approval of the three resolutions and three license agreements.

ATTACHMENTS

Resolutions
 License Agreements

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING A LICENSE AGREEMENT BETWEEN THE VILLAGE OF DOWNERS GROVE AND DENALI SPECTRUM OPERATIONS, LLC TO INSTALL, MAINTAIN AND OPERATE AN ANTENNA ON VILLAGE PROPERTY (71st STREET & CAMDEN ROAD)

BE IT RESOLVED by the Village Council of the Village of Downers Grove, DuPage County, Illinois, as follows:

1. That the form and substance of a certain License Agreement (the “Agreement”) and accompanying Memorandum of License, between the Village of Downers Grove (the “Village”) and Denali Spectrum Operations, LLC (the “Licensee”), for the installation, maintenance and operation of an antenna on Village property located at 71st Street & Camden Road, as set forth in the form of the Agreement submitted to this meeting with the recommendation of the Village Manager, is hereby approved.

2. That the Mayor and Village Clerk are hereby respectively authorized and directed for and on behalf of the Village to execute, attest, seal and deliver the Agreement, substantially in the form approved in the foregoing paragraph of this Resolution, together with such changes as the Manager shall deem necessary.

3. That the proper officials, agents and employees of the Village are hereby authorized and directed to take such further action as they may deem necessary or appropriate to perform all obligations and commitments of the Village in accordance with the provisions of the Agreement.

4. That all resolutions or parts of resolutions in conflict with the provisions of this Resolution are hereby repealed.

5. That this Resolution shall be in full force and effect from and after its passage as provided by law.

Mayor

Passed:

Attest: _____
Village Clerk

Site name: 71st & Camden Water Tank

**LICENSE AGREEMENT BETWEEN THE VILLAGE OF DOWNERS
GROVE AND DENALI SPECTRUM OPERATIONS LLC TO INSTALL,
MAINTAIN AND OPERATE AN ANTENNA ON VILLAGE PROPERTY**

WHEREAS, the Village of Downers Grove (hereinafter referred to as the "Village") is an Illinois municipal corporation and a home rule unit, pursuant to the laws of the State of Illinois; and

WHEREAS, the Village is the lessor of certain real estate located at 71st Street and Camden Road, Downers Grove, Illinois, upon which is located a Water Tower (hereinafter referred to as the "Tower"); and

WHEREAS, Denali Spectrum Operations, LLC (hereinafter referred to as the "Licensee") has requested permission to install an antenna on the top of the Tower and its related equipment on ground space near the Tower (hereinafter referred to as the "Antenna"); and

NOW, THEREFORE, in consideration of the mutual promises, covenants and conditions, the Village and the Licensee agree as follows:

1. CONTRACT DOCUMENTS:

The provisions set forth in the preamble and the following exhibits are incorporated into and made a part of this Agreement:

- a. Exhibit 1 - Site map of the Property dated, _____, 2008, and approved by the Village on _____, 2008, showing the Tower Space and Ground Space, together with the areas on the Property licensed to Licensee to provide access and utility service to the Ground Space (collectively the "Licensed Premises") which includes location of any proposed underground utilities necessary for operation of the Antenna.
- b. Exhibit 2 - Plans and specifications dated _____, 2008, and approved by the Village on _____, 2008, for the Antenna and any cables or utility lines to be installed on the Licensed Premises and used or housing of the related Antenna equipment (collectively "Licensee's Improvements").

2. GRANT OF LICENSE:

The Village hereby grants to the Licensee the right, permission and authority to install, operate and maintain Licensee's Improvements upon the terms and conditions hereinafter specified. This Agreement shall not terminate upon the sale, assignment or transfer of the property, but shall run with the land. In the event that the tower is removed, this contract shall cease and neither the Village nor the Licensee will not be responsible or liable for replacement or rent.

3. SPECIFICATIONS: The Licensee shall comply with the following specifications:

Site name: 71st & Camden Water Tank

a. *In general:* During the term of this Agreement, there shall be no substantial variations, modifications, or upgrades from the plans and specifications of Exhibits 1 and 2 without the prior written approval of the Village, which approval shall not be unreasonably withheld or delayed.

b. *Antenna:* The Antenna shall be for the operation of radio frequency: receive 1740 MHz; transmit 2135-2140 MHz. The Antenna shall be installed, attached to the Tower, and maintained in conformance with Exhibit 2 and any applicable State and federal requirements. The Antenna shall be located more than ten (10) feet from any existing antenna equipment and shall not exceed seventy-two (72) inches in height.

4. **CONSTRUCTION, INSTALLATION AND MAINTENANCE:**

The Licensee may install, repair, maintain, or replace the Antenna, subject to the following conditions:

a. Licensee shall obtain all required permits and authorizations from the Village, in accordance with the applicable ordinances, prior to commencing any work under this Agreement. Such work shall comply with applicable codes and regulations and shall be conducted in a workmanlike manner.

b. Licensee shall obtain all necessary approvals from any regulatory authorities for the operation of the Antenna. Further, the Licensee shall comply with all applicable laws and regulations of such regulatory authorities including, but not limited to the Federal Communications Commission.

c. All costs connected with the installation, maintenance, repair, use and removal of Licensee's Improvements and any related equipment shall be the responsibility of the Licensee.

d. Licensee shall not take any action or allow any action to be done which may impair the use of or damage the Tower.

e. The Licensee may not interfere with the use by the Village, its officers, agents and employees, of the Tower or the property on which it is located.

f. Except for emergency situations, the Village shall provide reasonable advance notice to Licensee when it conducts any Tower repair or maintenance work that affects the Antenna or function of the Antenna. Except for emergency situations, the Village shall not physically disturb Licensee's equipment without Licensee's permission. Licensee shall be entitled to access the equipment located on the Ground Space near the Tower twenty-four (24) hours a day, seven days a week. Licensee shall provide the Village reasonable advance notice when access to the antenna on top of the Tower is needed. Access to the Tower can only be obtained between the hours of 8:00 a.m. and 4:00 p.m. by calling the Water Manager at 630/434-5462, or in the event of an emergency after hours, by calling Village Operations Center at (630) 434-5706 or (630) 434-5707.

g. The Licensee shall maintain Licensee's Improvements in good repair, and in a clean

Site name: 71st & Camden Water Tank
and sightly condition.

h. Upon termination of this Agreement by either party, the Licensee shall, within thirty (30) days and at its expense, remove the Licensee Improvements and restore the Licensed Premises to substantially its original condition, reasonable wear and tear excepted.

i. If Licensee abandons its use of Licensee's Improvements, Licensee shall, within thirty (30) days of receipt of written notice from the Village notifying the Licensee of such abandonment and at its expense, remove the Licensee's Improvements and restore the Tower to substantially its original condition. Licensee's Improvements will be presumed abandoned if it is not operated for a period of one month or more. If Licensee's Improvements are not removed within thirty (30) days, the Village may remove Licensee's Improvements and the Licensee shall reimburse the Village for the costs of such removal.

5. NON-INTERFERENCE WITH VILLAGE OPERATIONS:

Neither this Agreement nor Licensee's Improvements shall interfere or obstruct the functioning of the Village's operations and services. Licensee warrants that Licensee's Improvements shall be constructed, installed, maintained and operated in such a manner as to not interfere or obstruct any radio or electronic equipment or signals of the Village's radio and data systems. In the event such interference occurs, and the interference cannot be eliminated by Licensee after reasonable efforts, the Village may terminate this Agreement, in accordance with Paragraph 8(b) of this Agreement. Provided after notice to Licensee, the Village may immediately terminate this Agreement, or require that operation of the Antenna or any of Licensee's Improvements be immediately ceased where it determines that the Antenna or Licensee's Improvements present an immediate and serious danger to the public health, welfare or safety due to interference with the operation of the Village's radio and data systems.

6. TERM:

a. This Agreement shall have an Initial Term beginning June 1, 2008 or upon the issuance of a building permit, (whichever occurs later), and ending December 31, 2012, and two (2) five-year Extension Terms beginning January 1, 2013, and January 1, 2018, respectively. The first extension term beginning January 1, 2013, shall automatically commence. The second extension term beginning January 1, 2018, shall automatically commence unless either party provides the Village with written notice of its election not to renew the License at least one hundred and twenty (120) days prior to the expiration of the current term. The final date of the agreement shall be December 31, 2022.

b. After February 1, 2018, Licensee may request the Village to enter into negotiations towards renewing or extending this Agreement. Any renewal or extension shall be according to terms that are mutually agreeable and the Village shall not be bound to accept any particular terms or to renew any or all of the rights granted by this Agreement.

7. COMPENSATION:

Site name: 71st & Camden Water Tank

Beginning in 2008, upon the issuance of a building permit, Licensee shall pay to the Village a license fee of \$3200.00 per month in 2008. Thereafter, effective on the first day of January in the subsequent years of the agreement, the monthly license fee shall increase in an amount equal to the fee for the preceding year multiplied by 4%. The fee shall be paid to the Village of Downers Grove, Village Hall, 801 Burlington Avenue, Downers Grove, IL 60515.

8. TERMINATION:

This Agreement may be terminated as follows:

a. Licensee may terminate this Agreement at any time upon sixty (60) days written notice to the Village without further liability if Licensee does not obtain all permits or other approvals required from any governmental authority or any easements required from any third party to operate the PCS system, or if any such approval is canceled, expires or is withdrawn or terminated, or if the Village fails to have proper ownership of the site or authority to enter into this Agreement, or if Licensee, for any other reason, in its sole discretion, determines that it will be unable to use the Property, however, if Licensee terminates this Agreement without cause, it shall pay the Village a termination penalty equal to three months of the current rental amount.

b. In the event either party fails to comply with the terms of this Agreement such party shall be considered in default and the non-defaulting party may serve written notice of its intent to terminate this Agreement. Except where the public health or safety is threatened, the notice shall give the defaulting party not less than thirty (30) days to correct such non-compliance. In the event the default is not corrected within thirty (30) days of such notice, the non-defaulting party may terminate this Agreement by serving a written notice of termination. Notwithstanding the preceding, if any default cannot be cured within thirty (30) days and the defaulting party has diligently commenced and continues to take reasonable action necessary to cure the default, the defaulting party shall be entitled to a reasonable extended period of time in order to cure the default.

c. In the event the Tower is destroyed or substantially damaged so as to substantially effect Licensee's use of the property, this Agreement shall be considered terminated.

9. TOWER REPAIR/MAINTENANCE:

Upon receiving ninety (90) days notice from the Village that it intends to repair or perform maintenance to the Tower, Licensee shall, at its own expense and in such manner as the Village shall reasonably request, immediately remove, relocate, change or alter the position of Licensee's Improvements. During the term of this Agreement, the Tower may be refurbished and/or painted. Refurbishment and/or painting will take several months to complete (approximately five to eight months). Prior to beginning refurbishment and/or painting, Licensee understands that its Antenna shall be removed from the Tower upon notice from the Village and that the Antenna shall not be reinstalled until the refurbishment and/or painting is completed and the Village has approved such reinstallation, which approval shall not be unreasonably withheld, conditioned or delayed. During such period, Licensee may, at its sole

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cost and expense, install the Antenna on a temporary telephone pole or bring a cell on wheels outside the shrouded area of the tower in a location approved by the Village. However, such temporary arrangement shall not interfere with the refurbishment and/or painting of the tower or with other Village operations on the site. The Village shall not be responsible for any costs of removal, relocation, and reinstallation of the Antenna as a result of the refurbishment and/or painting.

10. RESTORATION:

When the Licensee does any work on or affecting the Licensed Premises, it shall, at its own expense, restore the Licensed Premises to as good a condition as existed before the work was undertaken, unless otherwise directed by the Village. If the Licensee fails to restore the Licensed Premises, the Village may, after communications with the Licensee and after affording the Licensee a reasonable opportunity to correct the situation, restore the Licensed Premises, or remove the obstruction therefrom. No such prior written notice shall be required in the event that the Village determines that an emergency situation exists. The Licensee shall pay the Village for any reasonable costs of such restoration within fourteen (14) days after receiving a bill from the Village for such work.

11. UTILITIES:

Licensee shall be responsible for obtaining adequate utilities for operation of Licensee's Improvements, including electricity from any source available on the Property as long as the electricity for Licensee's Improvements are separately metered. Any utilities to be installed must be underground and at a location approved by the Village. Licensee shall pay for the electricity or any other utility it consumes in its operations at the rate charged by the servicing utility company and the Village shall not be liable for such charges.

12. TAXES:

Licensee is solely responsible for payment of taxes on the leasehold. Licensee is solely responsible to determine the taxes owed and to comply with the County payment procedures. Licensee shall reimburse the Village for any personal or real property taxes which are assessed as a result of Licensee's Improvements and directly attributable to its use of the Property under the terms of this Agreement. Licensee shall have the right, at its own expense and without expense to the Village, to contest by appropriate proceedings, conducted with due diligence and in good faith, the validity of the amount of any taxes or reassessment as applicable to the Licensed Premises or the Licensee Improvements. In the event that the Village becomes aware of any tax delinquency and that delinquency is not cured by the Licensee, the Village shall have the right to remove any of Licensee's equipment and terminate the Agreement.

13. INDEMNIFICATION:

Licensee shall indemnify, become responsible for and hold harmless the Village, its boards, committees, commissions, officers, agents and employees from any and all liability arising out of the existence of this Agreement; the installation, existence, maintenance or repair of Licensee's Improvements; or any act or omission of Licensee, its officers, agents and

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employees, except for liability which arises from the Village's or its employees' or agents' negligence or intentional misconduct.

For purposes of this Agreement, the term "liability" includes, but is not limited to: actual or claimed loss or damage to property or injury to or death of persons; actual or claimed responsibility for such loss, damage, injury or death; and any and all judgments, decrees, costs and expenses of every sort and kind of incident to such loss, damage, injury, death or responsibility, including, but not limited to, court costs, fines and attorney's fees.

14. INSURANCE:

At all times while this Agreement remains in effect, and in recognition of the indemnification provided in the foregoing Paragraph 13, the Licensee shall, at its own cost and expense, maintain a program of third party liability insurance and/or self-insurance to protect the Village, its officers, employees and agents from any liability for bodily injury, death, and property damage occasioned by the activities of the Licensee under this Agreement.

a. During the Term of the Agreement. Licensee shall procure, pay for and maintain in full force and effect during the entire term of the agreement (i) worker's compensation insurance as required by law and which insures Village against worker's compensation claims arising out of Licensee's activities on the Tower; (ii) fire and casualty insurance covering Licensee's Improvements in an amount not less than one hundred percent (100%) of their actual replacement cost; and (iii) commercial general liability insurance, including broad form property damage insurance, for bodily injuries and property damage, in amounts not less than One Million Dollars (\$1,000,000.00) per occurrence and One Million Dollars (\$1,000,000.00) in the aggregate covering bodily injuries or property damage occurring on the Tower.

b. During Construction/Installation. During construction/installation, Licensee's contractor shall also maintain and provide Village with evidence of each of the insurance coverages specified in subparagraph (a) and in the amounts so specified. In addition, the contractor shall provide builder's risk insurance on an "all risks" basis for one hundred percent (100%) of the insurable value of all construction work in place or in progress from time to time, insuring the project, including materials in storage and while in transit, against loss or damage by fire or other casualty, with extended coverage, vandalism and malicious mischief coverage, bearing a replacement cost agreed amount endorsement.

c. Policies. The policy or policies of insurance required by subparagraphs (a) and (b) shall be underwritten by a company or companies authorized to do business in the State of Illinois, shall be reasonably satisfactory to Village, shall name Village as an additional insured and shall be delivered to the Village, together with evidence of the payment of the premiums, prior to the commencement of the term of this Agreement. Licensee or, where applicable, Licensee's contractors shall furnish Village with a written notice of any cancellation, reduction or modification of insurance required under this Section.

15. LIENS:

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Licensee agrees that it will not permit or suffer any lien to be put upon or arise or accrue against the Property in favor of any person or persons, individual or corporate, furnishing either labor or material in any work herein proposed, and the Licensee further covenants and agrees to hold the Village and its property free from any and all liens, or rights or claim of lien, which may or might arise or accrue under or be based upon any mechanic's lien law of the State of Illinois. If any such lien or claim for lien is filed or recorded against the Property, the Village shall give Licensee notice thereof and demand that Licensee remove the same, or post adequate security to insure the removal of the same following the resolution of any dispute between Licensee and the lienholder, within thirty (30) days after such notice. Nothing in this provision shall restrict Licensee from granting a security interest in all or any part of Licensee's Improvements and to file of record UCC financing statements and/or fixture filings to perfect the same.

16. ASSIGNMENT AND SUBLEASING:

This Agreement may not be assigned or transferred without the express written consent of the Village, which shall not be unreasonably withheld, conditioned or delayed. The Village agrees to respond to any such request within thirty (30) days from receipt of the request. Any assignment or transfer without such written consent shall, at the option of the Village, be deemed to be void and of no effect. Provided, however, this Agreement may be assigned or transferred to Licensee's parent or an subsidiary, successor legal entity or other affiliate of Licensee without the Village's written consent as long as the Village is given written notice of the assignment or transfer within 30 days thereof. The Village must approve any sublease and shall be entitled to 50% of any sublease in addition to the rental fee as described in Section 7, above.

17. HAZARDOUS SUBSTANCES:

a. The Village represents and warrants that it has no knowledge of any hazardous substance existing on the Property in violation of any applicable federal, State or local law, regulation or ordinance. The Village further agrees to hold Licensee harmless from and indemnify Licensee against any damage, loss or expense or liability resulting from the existence on the Property of any such hazardous substance, including all attorney's fees and consultant fees, costs and penalties, incurred as a result thereof, unless caused by Licensee or any of its employees or agents.

b. Licensee represents and warrants that its use of the Licensed Premises will not generate any hazardous substance, and that it will not store or dispose on the Licensed Premises, nor transport to or over the Licensed Premises, any hazardous substance in violation of any applicable federal, State or local law, regulation or ordinance. Licensee further agrees to hold the Village harmless from and against and indemnify the Village against any release of such hazardous substance and any damage, loss, or expense or liability resulting from such release, including attorney's fees and consultant fees, costs and penalties, incurred as a result thereof, which was caused by Licensee or any of its employees or agents.

c. "Hazardous Substance" as used herein shall mean any substance or material defined or designated as hazardous or toxic waste, hazardous or toxic materials, hazardous or toxic radioactive substance, or other similar term by any federal, State or local

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environmental law, regulation or ordinance presently in effect or promulgated in the future.

18. COST OF ENFORCEMENT:

The prevailing party in any action or proceeding in court or mutually agreed upon arbitration proceeding to enforce the terms of this Agreement shall be entitled to receive its reasonable attorney's fees and other reasonable enforcement costs and expenses from the non-prevailing party.

19. INVALIDITY:

If any section, paragraph, clause or provision of this Agreement shall be held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the other provisions of this Agreement.

20. FORCE MAJEURE:

Neither party shall be deemed in violation of this Agreement for the delay in performance or failure to perform in whole or in part its obligations under this Agreement due to strike, war or act of war (whether an actual declaration is made or not), insurrection, riot, act of public enemy, fire, flood or other act of God or by other events to the extent that such events are caused by circumstances beyond such party's control.

21. NOTICES:

Unless otherwise specified herein, all notices under this agreement shall be made in writing and delivered to:

Village Manager
Village of Downers Grove
801 Burlington Avenue
Downers Grove, IL 60515-4776

And: Denali Spectrum Operations, LLC
10307 Pacific Center Court
San Diego, CA 92121
Attn: Legal Department

In the event the Licensee moves, consolidates, merges, splits or otherwise reorganizes or moves its offices, it is the duty and obligation of the Licensee to provide written notification to the Village within thirty (30) days of any change.

22. GOVERNING LAW:

This Agreement shall be governed by the laws of the State of Illinois.

Site name: 71st & Camden Water Tank

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the ____ day of _____, 2008.

LICENSEE:

Denali Spectrum Operations, LLC
a Delaware Limited Liability Company

Denali Spectrum License, LLC

Its Sole Member

Denali Spectrum, LLC

Its Sole Member

Denali Spectrum Manager, LLC

Its Manager

Doyson, Limited

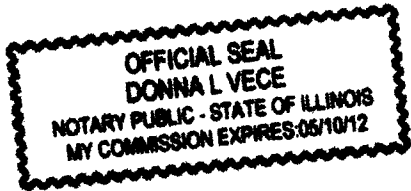
Its Manager

By: *R. Runt*

Title: *Operations Manager*

Subscribed and sworn to
this 15 day of May, 2008.

Donna L. Vece
Notary Public

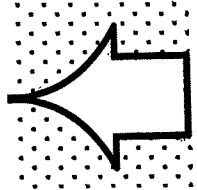


VILLAGE OF DOWNERS GROVE

By: _____
Mayor

ATTEST:

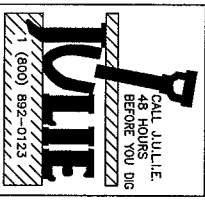
Village Clerk



WIT

PROJECT INFORMATION

SCOPE OF WORK: (SEE THIS SHEET) TELEPHONE COMPANY: AT&T
 E-911 ADDRESS: TBD TELEPHONE: 1-887-708-7800
 LATITUDE: 41° 45' 28.908" N POWER COMPANY: COMED
 LONGITUDE: -88° 1' 33.188" W TELEPHONE: 1-800-334-7881
 JURISDICTION: DU PAGE
 CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY
 TOWER OWNER: DAVE BIRCHVILLE OF DOWNERS GROVE
 PHONE: (630) 434-5462



DRAWING INDEX

REV	DESCRIPTION
3	ORD-311-A-01 TITLE SHEET
1	ORD-311-A-02 SHEET NOT USED
1	ORD-311-A-03 SITE PLAN & TOWER ELEVATION
1	ORD-311-A-04 ANTENNA DETAILS & SCHEDULES
1	ORD-311-A-05 SITE WORK DETAILS
1	ORD-311-A-06 UTILITY SITE ELEVATION & ONE LINE DIAGRAM
1	ORD-311-A-07 GROUNDING PLAN & GROUNDING SCHEDULES
1	ORD-311-A-08 CONSTRUCTION NOTES
1	ORD-311-A-09 ELECTRICAL NOTES
1	ORD-311-A-10 PLATFORM ELEVATIONS
1	ORD-311-A-11 MISC. DETAILS
1	ORD-311-A-12 MISC. DETAILS
1	ORD-311-A-13 STEALTH ANTENNA NOTES
1	ORD-311-A-14 STEALTH ANTENNA NOTES
1	ORD-311-A-15 STEALTH ANTENNA NOTES
1	ORD-311-A-16 STEALTH ANTENNA NOTES
0	PLATFORM ASSEMBLY DRAWING

REAL ESTATE
 KRISTYNA RYAN
OPS/CONSTRUCTION
 D. BAGSDALE / TONY VITELLO
LEGAL/COMPLIANCE
NET DESIGN

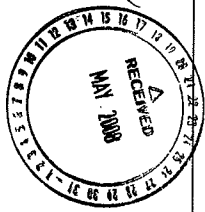
STRUCTURAL REVIEW

CONTRACTOR SHALL OBTAIN AND VERIFY STRUCTURAL EVALUATION REPORT OF EXISTING TOWER AND EXACT PLACEMENT OF ANTENNAS AND COAX CABLES AND NOTIFY CRICKET TELECOMMUNICATIONS IN CASE OF DISCREPANCY. ANY STRUCTURAL MODIFICATIONS, IF REQUIRED, SHALL BE DONE PRIOR TO INSTALLATION OF ANTENNAS. REFER TO CORRESPONDING SHOP DRAWINGS.

SCOPE OF WORK
 (INCLUDING BUT NOT LIMITED TO)
 1. FURNISH AND INSTALL NEW CONCRETE PAD FOR TELECOMMUNICATION EQUIPMENT.
 2. FURNISH AND INSTALL NEW COAX SUPPORT STRUCTURE.
 3. FURNISH AND INSTALL NEW ELECTRICAL SERVICES WITH METER AND DISCONNECT.
 4. FURNISH AND INSTALL ALL UNDERGROUND UTILITIES
 5. INSTALL NEW MOUNTS, ANTENNAS, CABLES, ETC.
 6. INSTALL TELECOMMUNICATION EQUIPMENT.

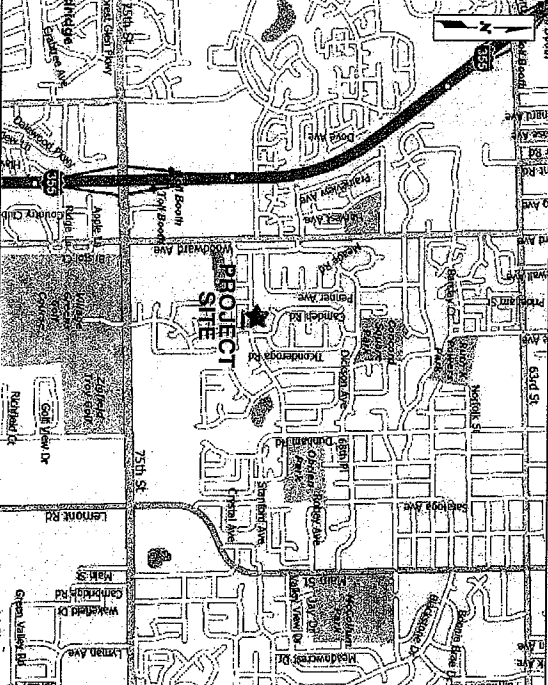
ClearLinx DESIGN, INC.
 100 CORPORATE PARK, SUITE G-1
 PHOENIX, AZ 85042
 PHONE: (602) 406-7877
 FAX: (602) 406-7877

ORD-311-A
 DOWNERS GROVE WT 71ST & CAMDEN RD
 1724 71ST STREET
 DOWNERS GROVE, IL 60518



Denali Spectrum Operations LLC, dba
cricket®
SITE NUMBER: ORD-311-A
SITE NAME: DOWNERS GROVE WT 71ST & CAMDEN RD
 CO-LOCATION MONOPOLE TOWER

VICINITY MAP



DIRECTIONS:

1: START OUT GOING SOUTHEAST ON W BRYAN MAWR AVE TOWARD N CHESTER AVE. 0.3 MILES 2: TURN LEFT ONTO N GUMBERLAND AVE / IL-171. 0.3 MILES 3: MERGE ONTO I-90 W / KENNEDY EXPY W TOWARD OHARE / ROCKFORD. 0.8 MILES 4: KEEP RIGHT TO TAKE I-190 W VIA EXIT 78 TOWARD OHARE INTL AIRPORT / I-294 S / INDIANA. 1.1 MILES 5: MERGE ONTO I-294 S VIA EXIT 1D ON THE LEFT TOWARD INDIANA (PORTIONS TOLL). 9.1 MILES 6: MERGE ONTO I-88 W / ROVALD REAGAN NORTH-SOUTH DIVISION TOWARD AURORA (PORTIONS TOLL). 6.9 MILES 7: MERGE ONTO I-355 S / NORTH-SOUTH DIVISION TOWARD AURORA (PORTIONS TOLL). 6.0 MILES 8: TAKE THE 75TH ST EXIT. 0.4 MILES 9: TURN LEFT ONTO 75TH ST. 0.3 MILES 9: TURN LEFT ONTO WOODWARD AVE. 0.4 MILES 11: TURN RIGHT ONTO CAMDEN RD. 0.2 MILES 12: TURN LEFT ONTO 71ST ST. 0.2 MILES 13: END AT 1724 71ST ST DOWNERS GROVE, IL 60518-1255. US TOTAL EST. TIME: 34 MINUTES TOTAL EST. DISTANCE: 26.39 MILES

NO.	DATE	REVISIONS	BY	CRICKET/APP'G
1	04/01/08	ISSUED PER CLIENT REQUEST	CM	MC
2	05/26/08	ISSUED PER CLIENT REQUEST	CM	MC
3	06/17/08	ISSUED PER CLIENT REQUEST	CM	MC
4	11/15/07	ISSUED FOR CONSTRUCTION	CM	MC
5	11/15/07	ISSUED FOR REVIEW	CM	MC
NO.	DATE	REVISIONS	BY	CRICKET/APP'G

SCALE AS SHOWN DESIGNED BY: C. NICHOLS DRAWN BY: C. NICHOLS

APPLICABLE BUILDING CODES AND STANDARDS

CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. (A.H.) FOR THE LOCATION. THE EDITION OF THE A.H. ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
 INTERNATIONAL BUILDING CODE (IBC), 2003

ELECTRICAL CODE:
 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 2002, NATIONAL ELECTRICAL CODE. (NFPA 700 - 2000, LIGHTNING PROTECTION CODE)
 [NFPA 780 - 2000, LIGHTNING PROTECTION CODE]

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES;
- TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM

IEEE 1100 (1999), RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE 682-41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY C37 AND HIGH SYSTEM EXPOSURE)

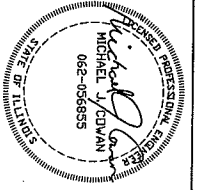
TELECORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

TELECORDIA GR-1503, COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL METHODS OF CONSTRUCTION OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE MATERIAL SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL GOVERNMENT REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MICHAEL J. COWAN, P.E. 082-058855 ON 11/15/07.



IMPORTANT NOTICE

CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AS REQUIRED FOR PROPER EXECUTION OF PROJECT. REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CONSULTANT PRIOR TO CONSTRUCTION.

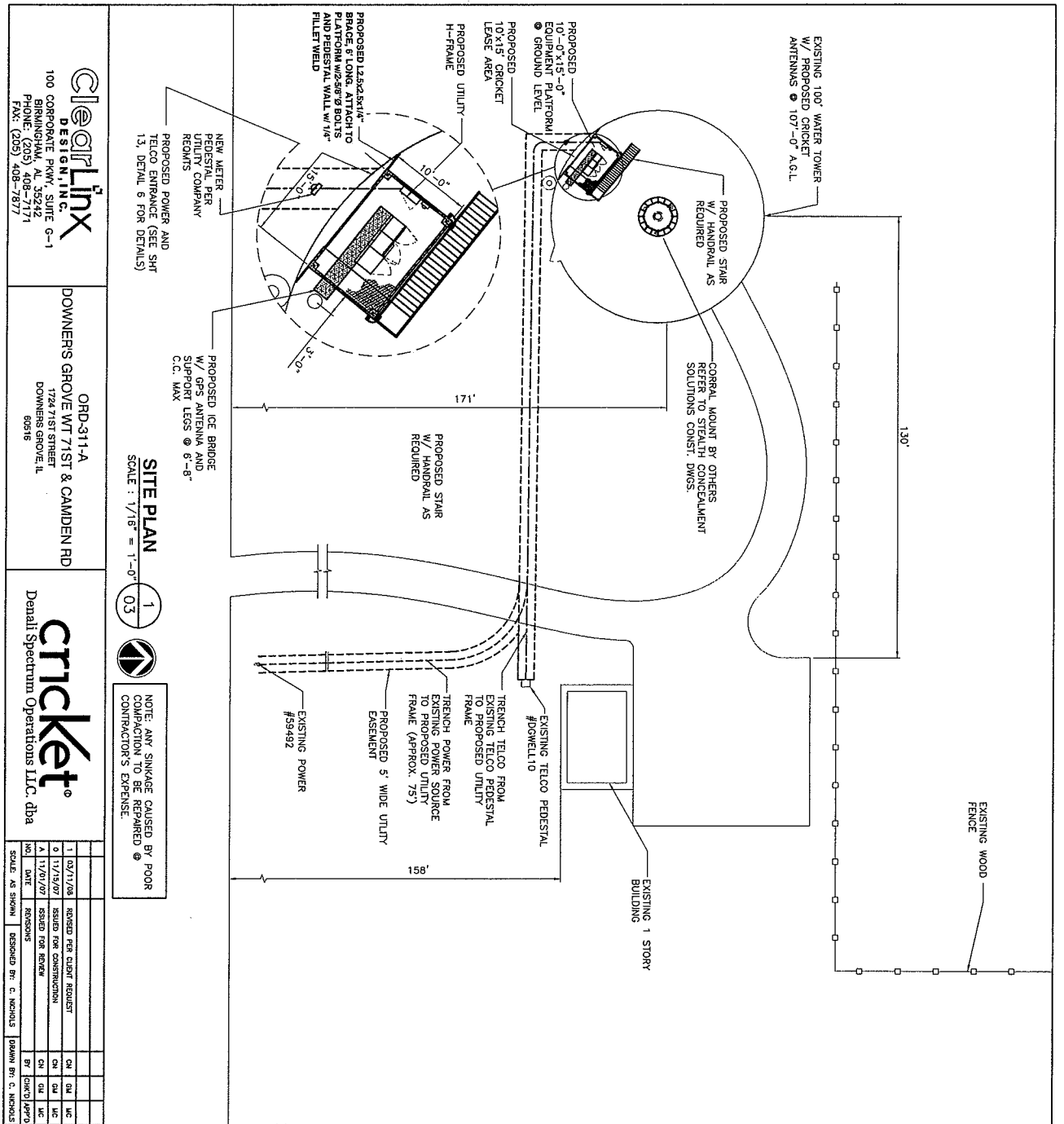
CRICKET COMMUNICATIONS

TITLE SHEET

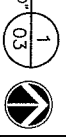
PROJECT NUMBER: ORD-311-A-01

DRAWING NUMBER: 1

11/15/07



SITE PLAN
SCALE: 1/16" = 1'-0"



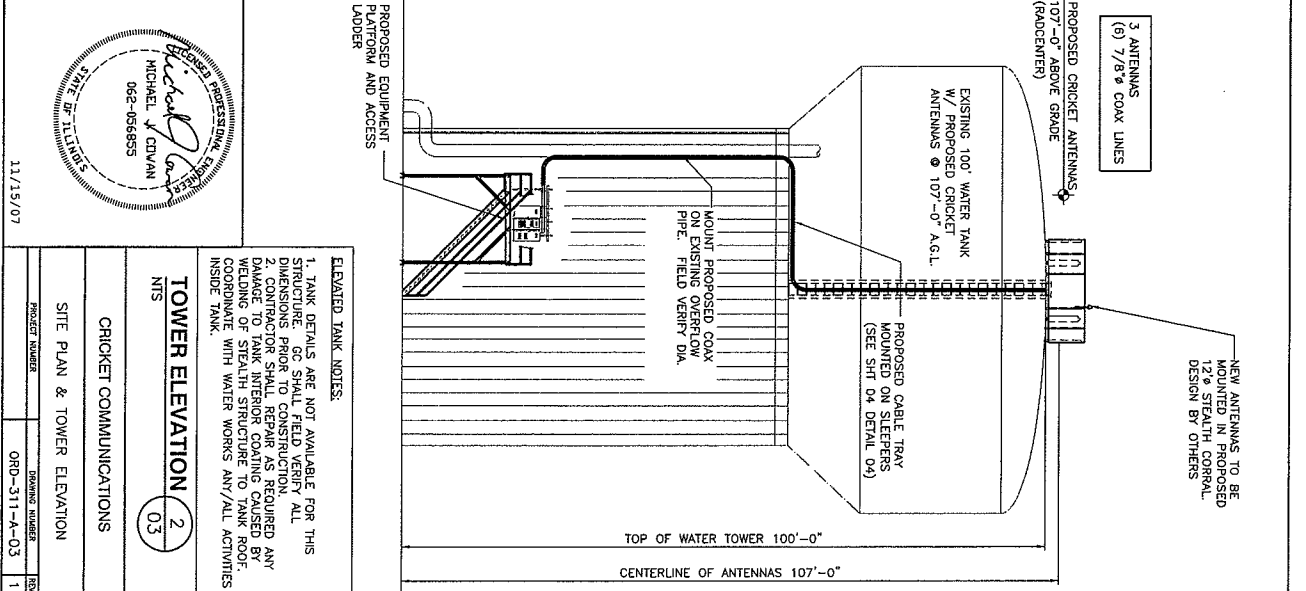
NOTE: ANY SINKAGE CAUSED BY POOR COMPACTION TO BE REPAIRED @ CONTRACTOR'S EXPENSE.

ClearLinx DESIGN, INC.
100 CORPORATE PKWY, SUITE G-1
BIRMINGHAM, AL 35242
PHONE: (205) 408-7171
FAX: (205) 408-7817

ORD-311-A
DOWNMERS GROVE WT 71ST & CAMDEN RD
1724 71ST STREET
DOWNMERS GROVE, AL
36016

cricket
Denali Spectrum Operations LLC, dba

NO.	DATE	REVISIONS	DESIGNED BY: C. MCKENZIE	DRAWN BY: C. MCKENZIE
1	02/11/08	ISSUED FOR CLIENT REVIEW		
2	01/12/07	ISSUED FOR CONSTRUCTION		
3	11/01/07	ISSUED FOR BIDDING		
4	11/01/07	REVISIONS		

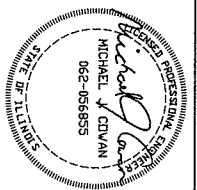


ELEVATED TANK NOTES:
1. TANK DETAILS ARE NOT AVAILABLE FOR THIS STRUCTURE. GC SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL REPAIR AS REQUIRED ANY DAMAGE TO TANK INTERIOR COATING CAUSED BY COORDINATE WITH WATER WORKS ANY/ALL ACTIVITIES INSIDE TANK.

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

CHICKET COMMUNICATIONS
SITE PLAN & TOWER ELEVATION

PROJECT NUMBER	DRAWING NUMBER	REV
ORD-311-A-03		1



11/15/07

ANTENNA INFORMATION

QUANTITY	SECTOR 1	SECTOR 2	SECTOR 3
MFR	KAW	KAW	KAW
MODEL	HB-X-AW-17-6S-00T	HB-X-AW-17-6S-00T	HB-X-AW-17-6S-00T
WEIGHT (LBS)	28.7	28.7	28.7
DIM (N-HxWxD)	66.14"x78.23" H	66.14"x78.23" H	66.14"x78.23" H
ANTENNA GAIN (dB)	18.3/18.6/18.8	18.3/18.6/18.8	18.3/18.6/18.8
AZIMUTH BEAMWIDTH	67/65/63	67/65/63	67/65/63
ELEVATION BEAMWIDTH	4.7/4.5/4.3	4.7/4.5/4.3	4.7/4.5/4.3
RAD CENTER (FT)	107	107	107
AZIMUTH (DEG)	0	120	240
ELEC DOWN TILT (DEG)	3	2	4

CABLE INFORMATION

COAX CABLE MFR	ANDREW	ANDREW	ANDREW
COAX CABLE MODEL	AL7-50	AL7-50	AL7-50
COAX CABLE DIA. (IN)	1 5/8"	1 5/8"	1 5/8"
COAX LENGTH (FT)	137	137	137
COAX CODE (TX)	YELLOW/ORANGE	RED/ORANGE	GREEN/ORANGE
COAX CODE (RX)	YELLOW/WHITE	RED/WHITE	GREEN/WHITE
JUMPER MFR	ANDREW	ANDREW	ANDREW
JUMPER MODEL	L44-PDMDM-6	L44-PDMDM-6	L44-PDMDM-6
JUMPER LENGTH (FT)	6	6	6
CONNECTOR MFR	ANDREW	ANDREW	ANDREW
CONNECTOR MODEL	AL7-DF-PS	AL7-DF-PS	AL7-DF-PS

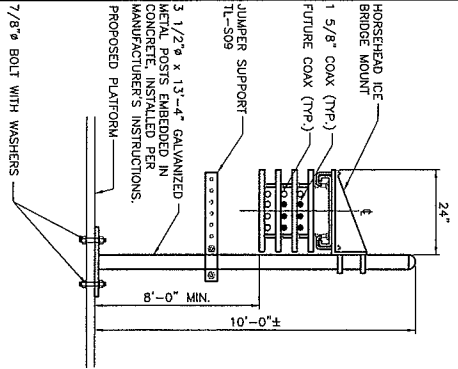
- EACH LINE OF COAX SHALL BE LABELED PURSUANT TO THE COLOR CODING SCHEDULED 12" BEFORE ANY CONNECTOR. COLOR CODING METHOD IS BY HEANS OF 1" WIDE COLORED SUPER 88 ELECTRICAL-TAPE WEATHER, HEAVY DUTY, ABRASION RESISTANT, FAST BUILD UP, UV RESISTANT TAPE-3/4" WIDE.
- ALL MAIN COAX LINES WILL BE GROUNDED AT SPECIFIED LOCATIONS AND ACCORDING TO MANUFACTURER SPECIFICATIONS.
- ALL INSTANCES WHERE THE COAX HAS BEEN CUT, MODIFIED, SPLICED, OR STRIPPED SHALL BE PROPERLY SEALED ACCORDING TO MANUFACTURER SPECIFICATIONS.
- ALL COAX IS TO BE PROPERLY INSPECTED UPON RECEIPT AND SHALL BE HANDLED ACCORDING TO MANUFACTURER SPECIFICATIONS. IT SHALL NOT BE BENT BEYOND SPECIFICATIONS.
- COAX SHALL BE FASHIONED TO SHED WATER IMMEDIATELY BEFORE ENTRY INTO INTERIOR AREAS OF EQUIPMENT.
- ANTENNA AZIMUTH ARE DEGREES OFF OF TRUE NORTH, BEARING CLOCKWISE, IN WHICH THE ANTENNA FACE IS DIRECTED. ALL ANTENNAS (AND SUPPORTING STRUCTURES AS PRACTICAL) SHALL BE ACCURATELY ORIENTATED IN THE SPECIFIED DIRECTION.
- SWEEP TEST SHALL BE PERFORMED BY A GENERAL CONTRACTOR AND SUBMITTED TO LTV REPRESENTATIVE. TEST SHALL BE PERFORMED PER LCV STANDARDS.

ANTENNA SCHEDULE

5

ClearLinx
DESIGN, INC.
100 CORPORATE PKWY, SUITE G-1
BIRMINGHAM, AL 35242
PHONE: (205) 408-1171
FAX: (205) 408-1817

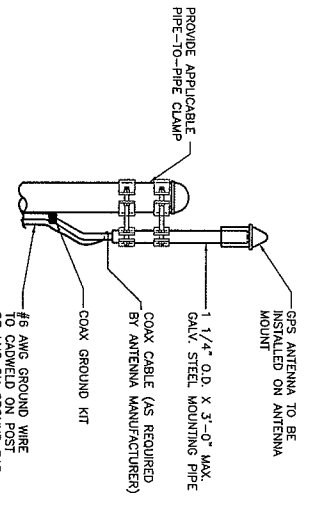
ORD-311-A
DOWNERS GROVE W/71ST & CAMDEN RD
1724 71ST STREET
DOWNERS GROVE, IL
60518



WAVEGUIDE BRIDGE

4

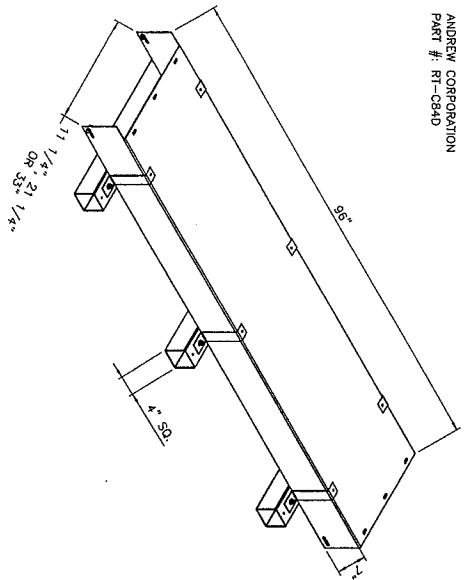
ANDREW CORPORATION
PART #: RT-084D



GPS MOUNT DETAIL

1

- NOTES:
- LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY OBSTACLES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
 - ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.

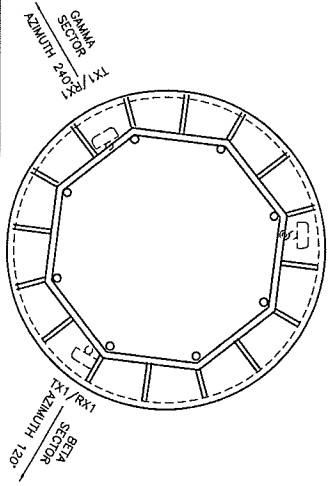


COVERED CABLE TRAY

6

cricket
Denali Spectrum Operations LLC, dba

NO.	DATE	REVISIONS	DESIGNED BY: C. NICHOLS	DRAWN BY: C. NICHOLS
2	03/28/08	REVISED PER CLIENT REQUEST		
1	03/17/08	ISSUED FOR CLIENT REQUEST		
0	11/15/07	ISSUED FOR CONSTRUCTION		
4	11/09/07	ISSUED FOR REVIEW		
NO.	DATE	REVISIONS	DESIGNED BY: C. NICHOLS	DRAWN BY: C. NICHOLS

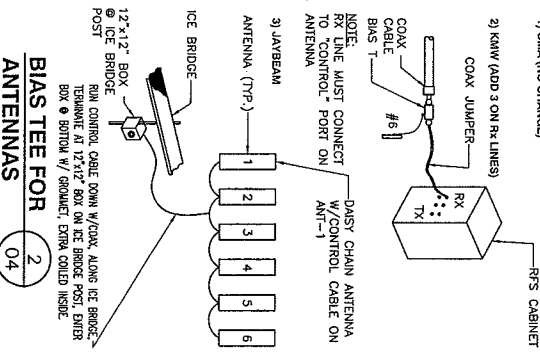


ANTENNA PLAN

3

REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. COVANN
STATE OF ALABAMA
062-056855
11/15/07

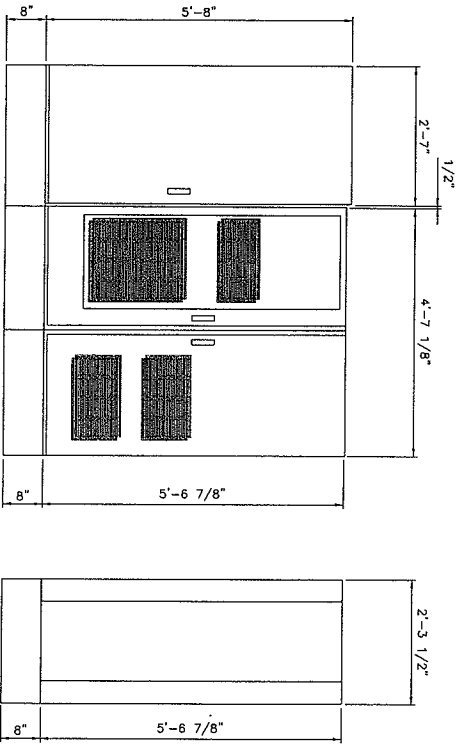
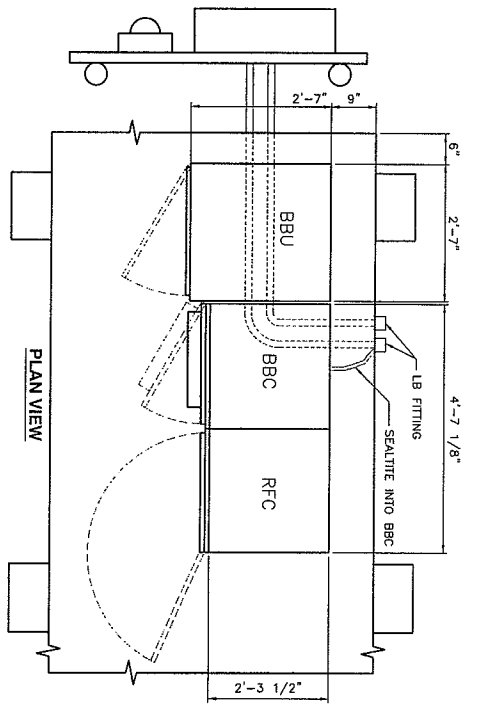
CRICKET COMMUNICATIONS
ANTENNA DETAILS & SCHEDULES
DRAWING NUMBER
ORD-311-A-04
REV 1



BIAS TEE FOR ANTENNAS

2

- 1) OMA (NO CHANGE)
2) KAW (ADD 3 ON RX LINES)
COAX JUMPER- RX
COAX CABLE TX
#6
DASY CHAIN ANTENNA W/CONTROL CABLE ON ANT-1
NOTE: RX LINE MUST CONNECT TO CONTROL PORT ON ANTENNA
3) JAYBEAM
ANTENNA (T/P)- 1
ICE BRIDGE
12"x12" BOX @ ICE BRIDGE POST
RAIN CONTROL CABLE DOWN W/COAX ALONG ICE BRIDGE TERMINATE AT 12"x12" BOX ON ICE BRIDGE POST, EITHER BOX @ BOTTOM W/ GROUND, EXTRA COILED INSIDE.



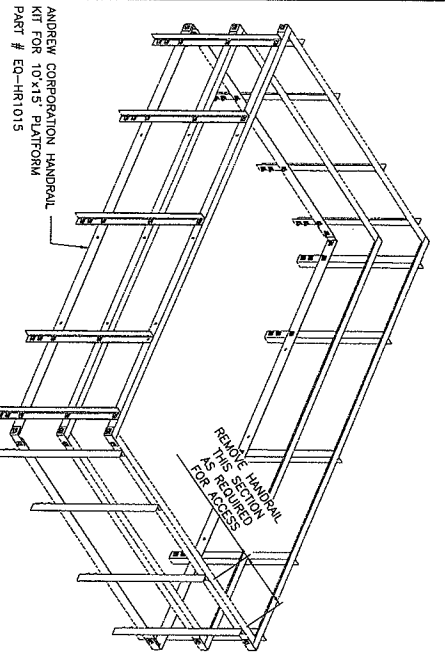
HUAWEI TECHNOLOGIES CABINET

1
05

ClearLine
DESIGN, INC.
100 CORPORATE PKWY, SUITE G-1
BIRMINGHAM, AL 35242
PHONE: (205) 408-7171
FAX: (205) 408-7877

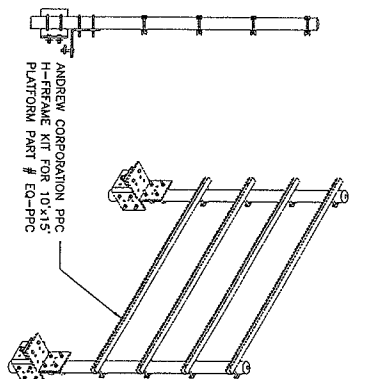
ORD-311-A
DOWNERS GROVE W/ 71ST & CAMDEN RD
1724 71ST STREET
DOWNERS GROVE, IL
60516

cricket
Denaai Spectrum Operations LLC, dba



HANDRAIL

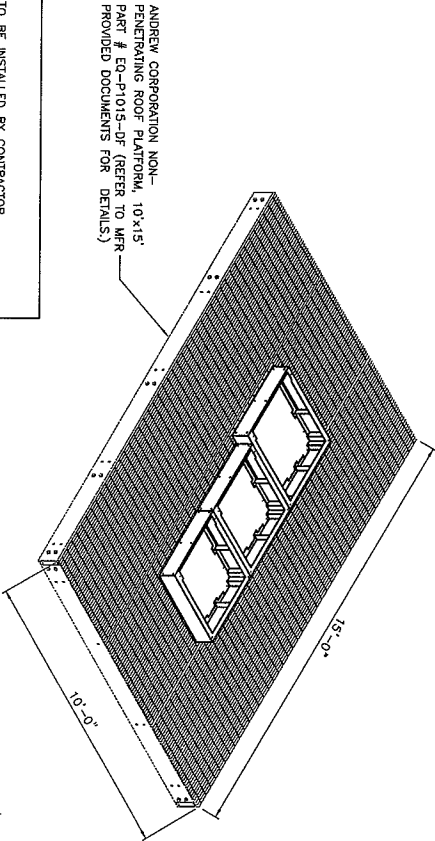
2
05



SIDE VIEW

PPC FRAME

3
05

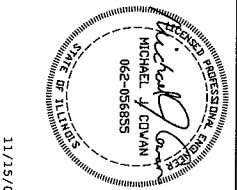


PLATFORM PLAN

4
05

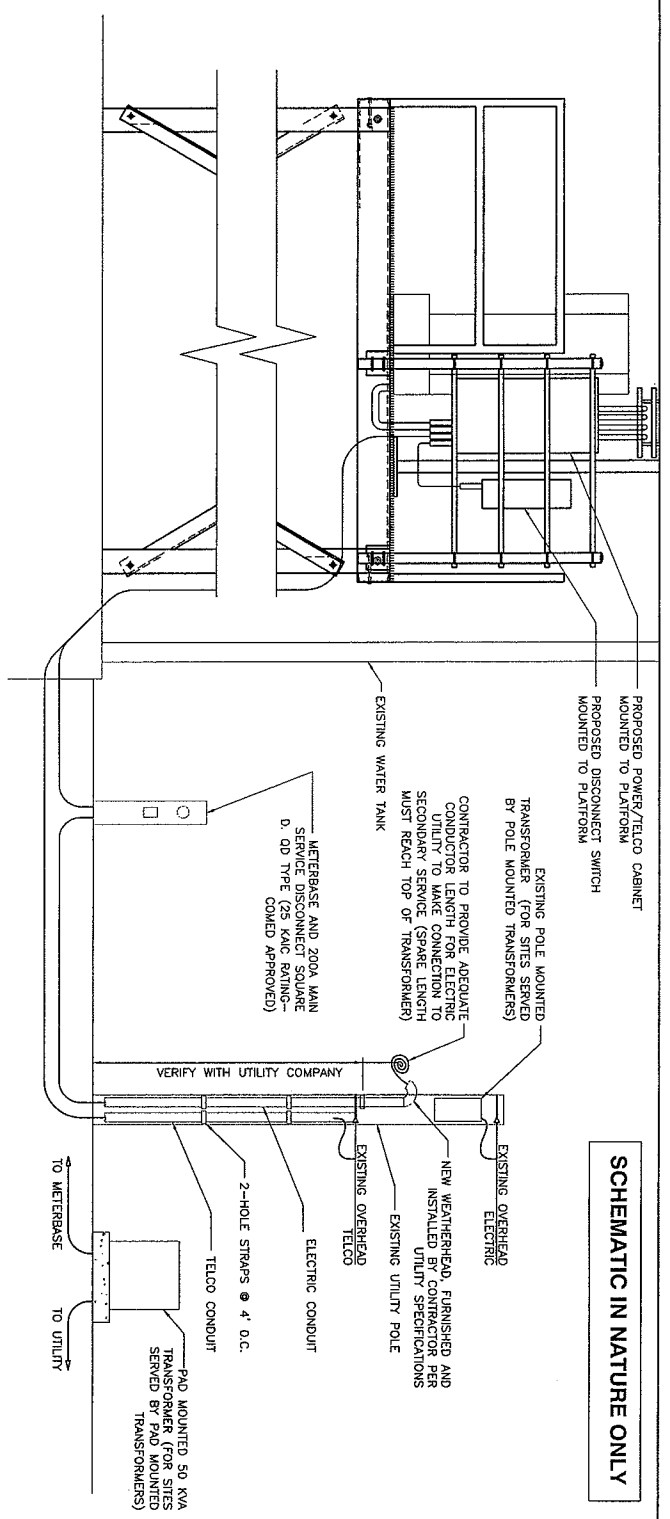
- NOTES:**
1. PLATFORMS TO BE INSTALLED BY CONTRACTOR.
 2. SEE SHEET 13 FOR ADDITIONAL STRUCTURAL DETAILS.
 3. ALL STRUCTURAL STEEL AND PLATFORM ELEMENTS SHALL BE HOT-DIP GALVANIZED.
 4. THIS DETAIL DENOTES THE PURCHASED ASSEMBLY ONLY. FOR FINAL ASSEMBLY AND DETAILS SEE SHEET 13.

NO.	DATE	REVISIONS	DESIGNED BY: C. MOHOLA	DRAWN BY: C. MOHOLA	APPROVED
1	10/21/08	ISSUED FOR CLIENT REQUEST	CM	CM	MC
2	11/15/07	ISSUED FOR CONSTRUCTION	CM	CM	MC
3	11/15/07	ISSUED FOR REVIEW	CM	CM	MC



CRICKET COMMUNICATIONS	PROJECT NUMBER	ORD-311-A-05
SITE WORK DETAILS	DRAWING NUMBER	1

SCHEMATIC IN NATURE ONLY



GENERAL NOTES

- WHEN SERVICE OVERRUNNING DISCONNECT IS FIELD INSTALLED AND HAS A NEED TO BE FIELD INSTALLED, THE AVAILABLE FAULT CURRENT DOES NOT EXCEED 25 KAC. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF THIS REQUIREMENT IS NOT MET FOR ADDITIONAL ENGINEERING REVIEW AND DESIGN.
- CONNECTION TO UTILITY SERVICE THE SERVICE OVERRUNNING DISCONNECT IS NOT TO BE INSTALLED UNLESS THE AVAILABLE FAULT CURRENT DOES NOT EXCEED 25 KAC. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF THIS REQUIREMENT IS NOT MET FOR ADDITIONAL ENGINEERING REVIEW AND DESIGN.

POWER/TELECO CABINET (PTC) DATA

PROVIDED W/ CABINET:

GENERATOR AND MAIN BREAKERS: SQUARE 00 FRAME 200A, MECHANICAL TRANSFER MECHANISM AR20044RS

GENERATOR RECEPTACLE: 200A APPLT/PTN

LOAD CENTER: SQUARE D, 200A 24 POSITION, 00 STYLE

BRANCH BREAKERS: SQUARE D, 00 STYLE

(1) 20A, 2P FOR TVSS

(1) 15A, 1P FOR GFCI RECEPTACLE

(1) 10A, 1P FOR TELCO VENTILATION FAN

PROVIDED BY CONTRACTOR:

BRANCH BREAKERS: SQUARE D, 00 STYLE

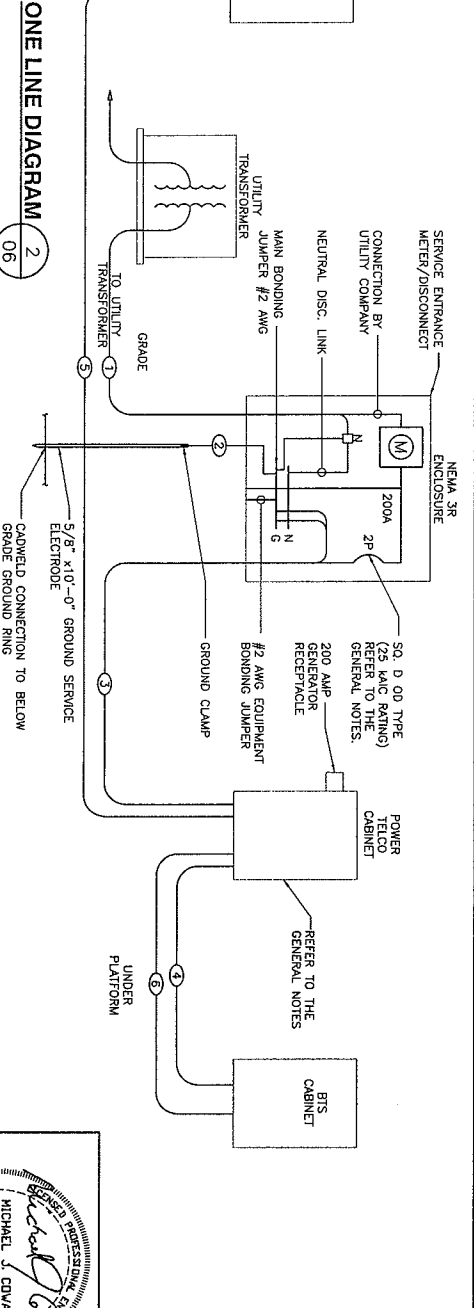
(1) 50A, 2P FOR BTS CABINET

(1) 15A, 1P FOR WORK LIGHT

(1) 20A, 1P FOR CELL EXTENDER CABINET

UTILITY SITE ELEVATION

1
06



ONE LINE DIAGRAM

2
06

ELECTRODE FEEDER SCHEDULE

(3) #3/0 & #4 GND - 2" CONDUIT

(1) #4 GND - 1 1/2" CONDUIT

(1) #3/0 & (1) #4 GND - 2" CONDUIT

(3) #3 STRANDED, COLORED + 1 #6

SEALITE TO TERMINATE AT PLINTH, 3' SEALITE TO TERMINATE AT PLINTH.

TELECOM FEEDER SCHEDULE

(2) 12 PR. CAT. 5 (PHONE COMPANY CABLES), 4" CONDUIT TYPICAL (2" CONDUIT IF APPROVED).

(3) 1 1/2" CONDUIT TO LB + SEALITE + APPROPRIATE FITTING FOR TERMINATION TO PLINTH. (3) 4 PR. CAT. 5 CABLES BY OTHERS.

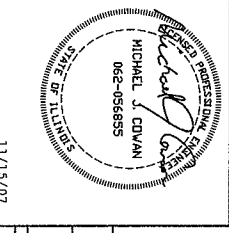
ClearLink
DESIGN, INC.
100 CORPORATE PKWY, SUITE 6-1
BIRMINGHAM, AL 35242
PHONE: (205) 408-1771
FAX: (205) 408-1877

ORD-311-A
DOWNERS GROVE WT 71ST & CAMDEN RD
1784 P31 STREET
DOWNERS GROVE, IL
60518

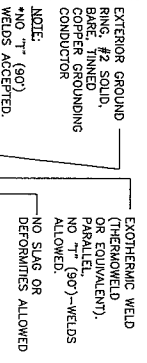
cricket
Denali Spectrum Operations LLC, dba

NO.	DATE	REVISION	DESIGNED BY: C. NEBOIS	DRAWN BY: C. NEBOIS
1	02/11/08	ISSUED FOR CLIENT REQUEST	CN	CAJ, LJC
0	11/15/07	ISSUED FOR CONSTRUCTION	CN	CAJ, LJC
1	11/01/07	ISSUED FOR REVIEW	CN	CAJ, LJC
N/A		REVISION	BY	DATE/APP'D

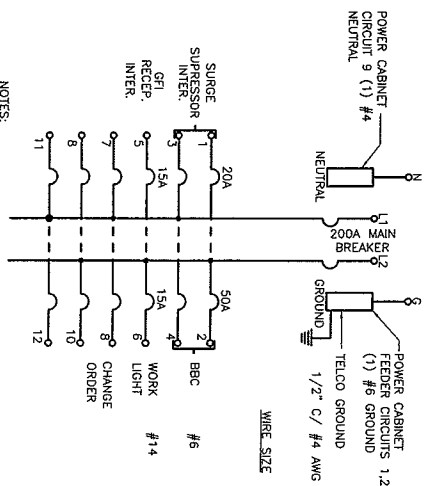
SCALE: AS SHOWN



CHICKET COMMUNICATIONS
UTILITY SITE ELEVATION
& ONE LINE DIAGRAM
PROJECT NUMBER: ORD-311-A-06
DRAWING NUMBER: 1



TYPICAL GROUNDING CONNECTION (1) (07)



- NOTES:
1. WHEN SERVICE OVER CURRENT DISCONNECT IS FIELD INSTALLED, ALL NEUTRAL TO GROUND CONNECTIONS ESTABLISHED BEFORE FIELDING NEUTRAL TO GROUND BONDING JUMPER IN PTC CABINET.
 2. PRIOR TO INSTALLATION OF FINAL ELECTRICAL CONNECTION TO UTILITY SERVICE, THE ELECTRICAL CONTRACTOR SHALL KEEP THE AVAILABLE FAULT CURRENT DOES NOT EXCEED 75 AMP. THE AVAILABLE FAULT CURRENT SHALL BE IMMEDIATELY IF THIS REQUIREMENT IS NOT MET FOR ADDITIONAL ENGINEERING REVIEW AND DESIGN.

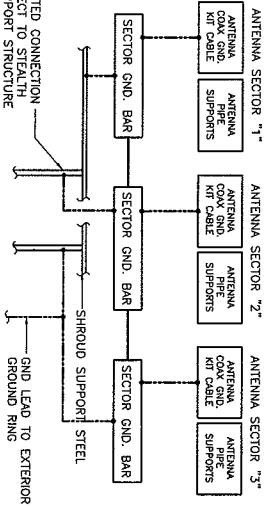
PANEL SCHEDULE (5) (07)

Clearlinx
DESIGN, INC.
100 CORPORATE PKWY, SUITE G-1
PHOENIX, AZ 85024
PHONE: (602) 406-5272
FAX: (602) 406-7877

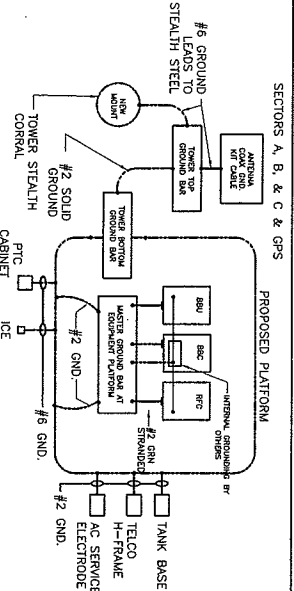
ORD-311-A
DOWNIERS GROVE/WT 71ST & CAMDEN RD
1744 11ST STREET
DOWNIERS GROVE, IL
60516

Denali Spectrum Operations LLC, dba
cricket

NO.	DATE	REVISIONS	DESIGNED BY: C. WOODS	DRAWN BY: C. WOODS
0	11/15/07	SOLID FOR CONSTRUCTION		
1	11/09/07	SOLID FOR REVIEW		



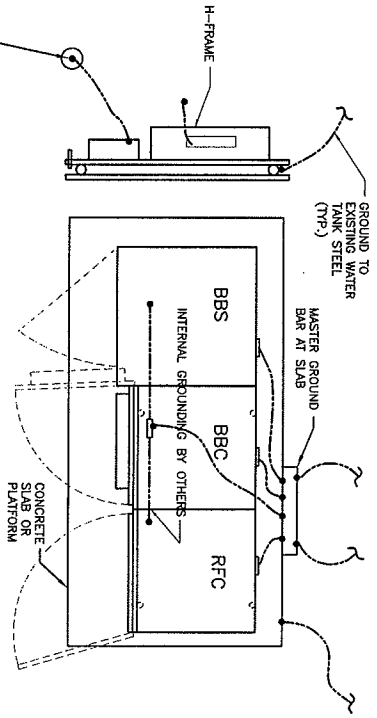
TOP OF TOWER GROUNDING SCHEMATIC (4) (07)



GRADE LEVEL GROUNDING SCHEMATIC (6) (07)

THE CONTRACTOR SHALL PERFORM IEEE FALL-OR-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

SCHEMATIC IN NATURE ONLY

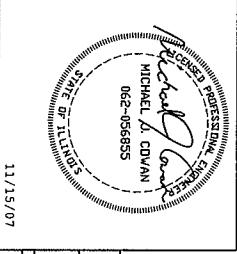


NEW ELECTRIC SERVICE GROUND ROD

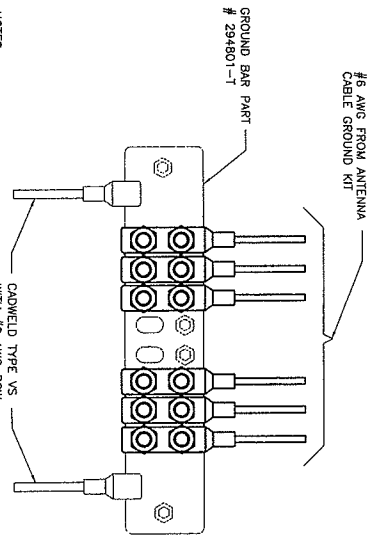
- LEGEND
- EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
 - 5/8" x 10" COPPER CLAD STEEL GROUND ROD WITH INSPECTION SLEEVE
 - EXOTHERMIC WELD (CADWELD) WITH INSPECTION SLEEVE
 - GROUNDING WIRE
 - H1 PRESSURE CRIMPED LUG & SS BOLTS

- NOTES:
1. INSTALL GROUND RODS AND CONNECTING GROUND WIRE AROUND THE NEW EQUIPMENT PLATFORM, SEPARATION BETWEEN GROUND RODS SHOULD NOT BE LESS THAN THE LENGTH OF THE RODS NOR BE MORE THAN TWO SEPARATE PLACES.
 2. ONE SEPARATE GROUND LEAD SHALL BE INSTALLED FOR EACH CABINET. THE GROUND LEADS SHALL BE ABLE TO EXTEND A MINIMUM OF 10'-0" ABOVE GRADE AND SHALL BE COILED AND READY FOR CONNECTION TO THE INTERNAL EQUIPMENT GROUND BAR. EACH GROUND LEAD SHALL BE EXOTHERMICALLY CONNECTED TO UNDERGROUND GROUNDING WIRE.
 3. REFER TO DETAIL 114 FOR GROUND ROD DETAILS.

TYPICAL CABINET & PLATFORM GROUNDING (7) (07)

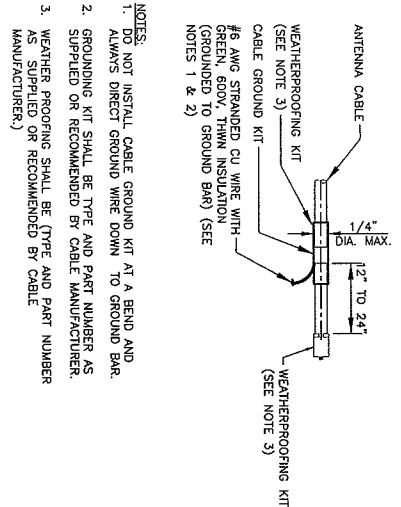


CRICKET COMMUNICATIONS
GROUNDING PLAN & GROUNDING SCHEMATICS
PROJECT NUMBER: ORD-311-A-07
DRAWING NUMBER: 100



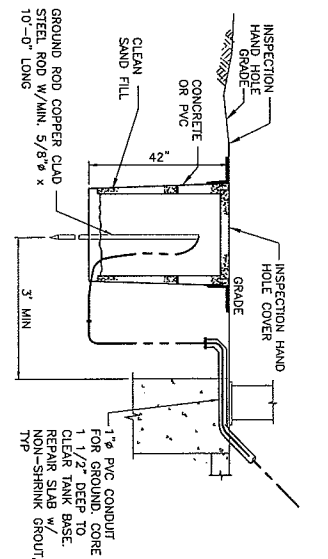
- NOTES:
1. SECTOR BARS TO BE 1/4"x2"x10"
 2. UPPER & LOWER MAIN GROUND BARS TO BE 1/4"x2"x10"
 3. ALL BOLTS TO BE W/ 3/8"x1 S.S. & BETS) ON ALL LUG CONNECTIONS

INSTALLATION OF GROUND WIRE TO GROUND BAR 1 08

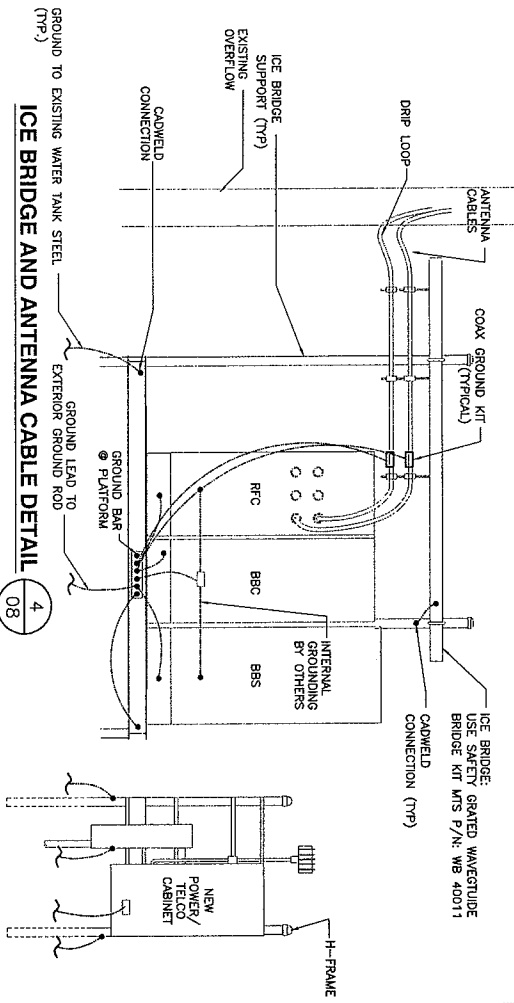


- NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

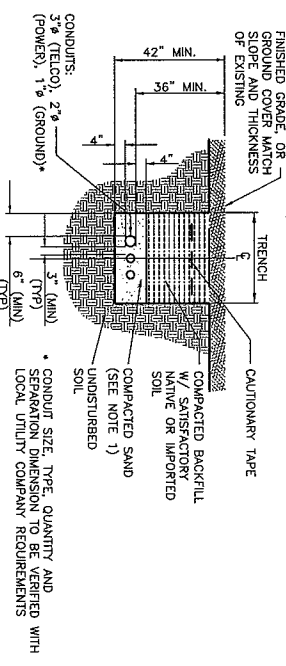
CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE 2 08



- NOTE: INSPECTION HAND HOLE MAY BE CONCRETE OR PVC AND SHALL BE A MINIMUM OF 8" IN WIDTH/DIAMETER
- GROUND ROD WITH ACCESS AREA** 3 07
1. 42" MINIMUM BELOW GRADE
 2. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.



ICE BRIDGE AND ANTENNA CABLE DETAIL 4 08



- NOTE: 1. LEAN CONCRETE, RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND.
- DIRECT BURIED CONDUIT** 5 08
- CONDUIT SIZE, TYPE, QUANTITY AND SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

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NO.	DATE	REVISIONS	DESIGNED BY: C. NICHOLS	DRAWN BY: C. NICHOLS
2	02/26/08	REVISED PER CLIENT REQUEST		
1	02/17/08	REVISED PER CLIENT REQUEST		
0	11/15/07	ISSUED FOR CONSTRUCTION		
A	11/07/07	ISSUED FOR REVIEW		

Richard Cowan
PROFESSIONAL ENGINEER
STATE OF ALABAMA
MICHAEL J. COWAN
062-0564855

CRICKET COMMUNICATIONS

PROJECT NUMBER	DRAWING NUMBER	REV
	ORD-311-A-08	1

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONDUCT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE PROTECTED BY THE CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PILES AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION & EXCAVATION. B) ELECTRICAL SAFETY C) TRENCHING & EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBER, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BITS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE REGRADED TO ORIGINAL ELEVATION AND STABILIZED TO PREVENT EROSION AS DESCRIBED IN THE PROJECT SPECIFICATIONS.
12. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. ANY SINKAGE CAUSED BY POOR COMPACTION TO BE REPAIRED @ CONTRACTOR'S EXPENSE.

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROTECTIVE SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A53 UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND ALL WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE 2 OF THE AISC MANUAL OF STEEL CONSTRUCTION. SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE UNLESS NOTED OTHERWISE.
4. (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
5. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S 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 CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. ALL REBAR CUT SECTIONS REQUIRED BY MAINFRAME CODES SHALL BE REBAR SPECIFICATIONS REQUIRED BY MAINFRAME MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, PERMANENTLY RUSTED OTHERWISE RUSTED WIRE FABRIC UNLESS NOTED OTHERWISE. SPICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD. UNO.
4. 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 LARGER2 IN.
 - #5 AND SMALLER & WW.....1 1/2 IN.
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 - SLAB AND WALL3/4 IN.
 - BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAIRER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S 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 CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. ALL REBAR CUT SECTIONS REQUIRED BY MAINFRAME CODES SHALL BE REBAR SPECIFICATIONS REQUIRED BY MAINFRAME MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 - CONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 - OWNER - POCKET COMMUNICATIONS
 - DEM - ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES TO COMPANY. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS, AND LAWS. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED EQUIPMENT, ON THE DRAWINGS.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL.
8. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND T1 PLAN DRAWING.
9. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, GROUNDING CABLES AS SHOWN ON THE ELECTRICAL PLAN.
10. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
11. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
12. CONTRACTOR TO OBTAIN REQUIRED NOTICE TO PROCEED DOCUMENTS FROM THE TOWER OWNER BEFORE COMMENCING CONSTRUCTION.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL
AWG	AMERICAN WIRE GAUGE
BCW	BASE COPPER WIRE
BTS	BASE TRANSMISSION STATION
DWG	DRAWING
ENT	ELECTRICAL METALLIC TUBING
GEN	GENERATOR
IGR	INTERIOR GROUND RING (YALLO)
IMC	INTERMEDIATE METALLIC CONDUIT
MCB	MASTER GROUND BAR
MIN	MINIMUM
NIS	NOT TO SCALE
PCS	PERSONAL COMMUNICATION SYSTEM
REF	REFERENCE
RBS	RAID BASE STATION
REQ	REQUIRED
RF	RADIO FREQUENCY
RSS	RIGID GALVANIZED STEEL
RWY	RADEWAY
SCS	SELF CONTAINED CELL SITE
TBD	TO BE DETERMINED
TYP	TYPICAL

ELECTRICAL SYMBOLS

	GROUND ROD WITH ACCESS
	CHEMICAL GROUND ROD
	GROUND ROD
	DISCONNECT SWITCH
	METER
	CIRCUIT BREAKER
	CAPWELD TYPE CONNECTION
	COMPRESSION TYPE CONNECTION
	GROUNDING WIRE

--- REPRESENTS DETAIL NUMBER
 --- REF. DRAWING NUMBER

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6	11/15/07	ISSUED FOR CONSTRUCTION	CM	CM	CM	CM	CM
4	11/20/07	ISSUED FOR REVIEW	CM	CM	CM	CM	CM
NO	DATE	RESPONSE	BY	BY	BY	BY	BY
SCALE AS SHOWN		DESIGNED BY: C. MCKENZIE	DRAWN BY: C. MCKENZIE				

PROFESSIONAL ENGINEER
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 MICHAEL J. DIVIAN
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CRICKET COMMUNICATIONS

PROJECT NUMBER	DRAWING NUMBER	REV
	ORD-311-A-09	0

GROUNDING NOTES

1. THE CONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AGENCY) AND THE STATE ELECTRICAL CODE (AS ADOPTED BY THE AGENCY). THE CONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GESS) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO THIS EQUIPMENT.
5. EACH BITS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BITS; 2 AWG STRANDED COPPER FOR OUTDOOR BITS.
6. EXPOSING WEIRD SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTI-OXIDANT COMINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BONDING CONDUCTORS SHALL BE EXTERNALLY BOLTED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT AND TRAY SHALL BE GROUND AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING AROUND THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR STEELS THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE ROUTED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL, SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. THERE USE OF METAL CONDUIT IS UNDESIRABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE). THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
13. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GESS) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
14. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
15. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
16. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
17. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
18. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
19. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
20. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
21. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.

ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
3. WIRING RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOT), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (GM BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. CONDUIT IDENTIFICATION, POWER OR AMPACITY RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTORS (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION, LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION, LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING NOT IN TUBING OR CONDUIT SHALL BE MULTI-CONDUCTOR TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION, WITH OUTER JACKET, LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE GRIMP-STYLE, COMPRESSION WIRE LUSS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUSS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (30°C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENR), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
18. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
21. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD, SHALL BE PENDANT TYPE E (OR EQUAL), AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 514 AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING, SHALL MEET OR EXCEED UL 514 AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE AC POWER DISTRIBUTION PANELS.
27. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)

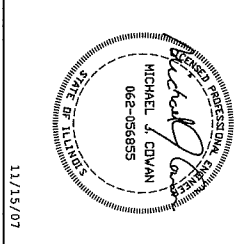
1. RF TVSS DEVICES SHALL BE INSTALLED IN ALL NEW ANTENNA & NEW COAXIAL INSTALLATION OR REPLACEMENTS.
2. SEE DETAIL 116 AND 122 FOR ADDITIONAL RF COAXIAL TVSS REQUIREMENTS.
3. AC TVSS DEVICES FOR AC POWER SHALL BE INSTALLED FOR ALL NEW AC PANEL INSTALLATION OR REPLACEMENTS.
4. THE AC TVSS SHALL BE COMMON MODE TYPE, MINIMUM RATED 1200A SURGE CURRENT, AND HAVE MONITORING LIGHTS WITH FORM C ALARM CONTACTS. THE AC TVSS SHALL BE INNOVATIVE TECHNOLOGIES PRTX20 OR OWNER APPROVED EQUAL. THE TVSS SHALL BE CONNECTED TO THE AC SYSTEM THROUGH A CIRCUIT BREAKER IN THE AC PANELBOARD AND SHALL BE MOUNTED INTEGRAL WITH THE PANELBOARD OR DIRECTLY ADJACENT.
5. T1 TVSS DEVICES SHALL BE INSTALLED IN ALL NEW T1 INSTALLATIONS.
6. THE CONTRACTOR SHALL INSPECT THE EXISTING TELCO SYSTEM FOR TVSS PRESENCE AND REPORT FINDINGS.
7. SURGE SUPPRESSION AND PROTECTION DEVICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) ARTICLE 250, 280, 285, AND CHAPTER 8, AS APPLICABLE.

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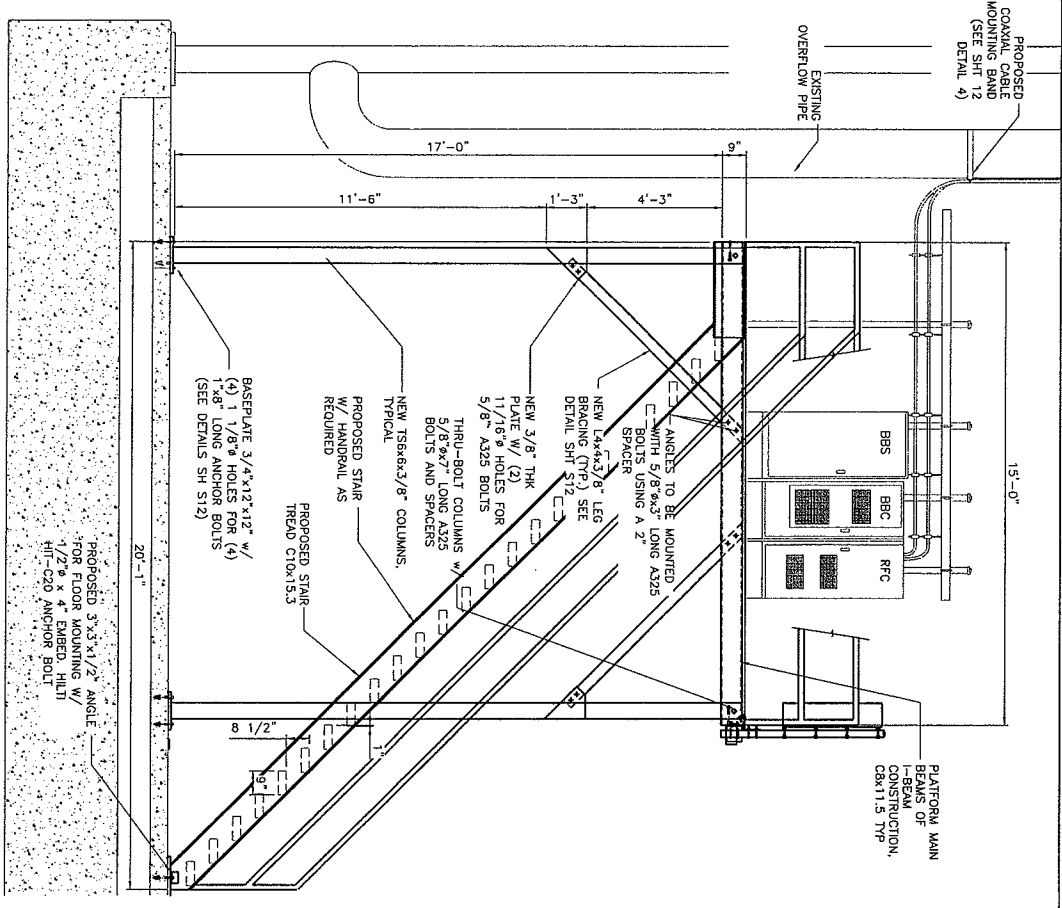
cricket
 Denali Spectrum Operations LLC, dba

NO.	DATE	ISSUED FOR CONSTRUCTION	ISSUED FOR REVIEW	BY	CHANGED BY	REVISIONS	DESIGNED BY: C. HOPKINS	DRAWN BY: C. HOPKINS
0	11/19/07	ISSUED FOR CONSTRUCTION		CM	CM	CM		
1	11/01/07	ISSUED FOR REVIEW		CM	CM	CM		

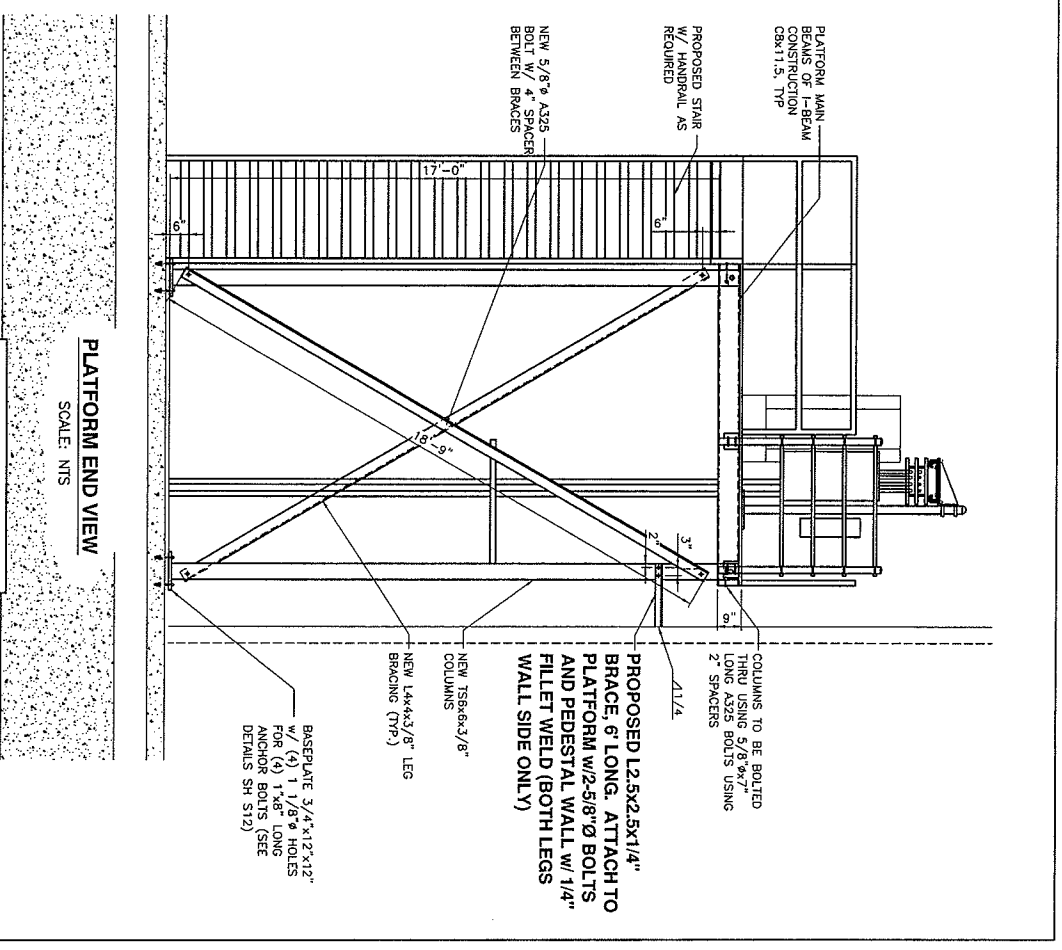


11/15/07

PROJECT NUMBER	DRAWING NUMBER	REV
ELECTRICAL NOTES	ORND-311-A-10	0



PLATFORM SIDE VIEW
SCALE: NTS



PLATFORM END VIEW
SCALE: NTS

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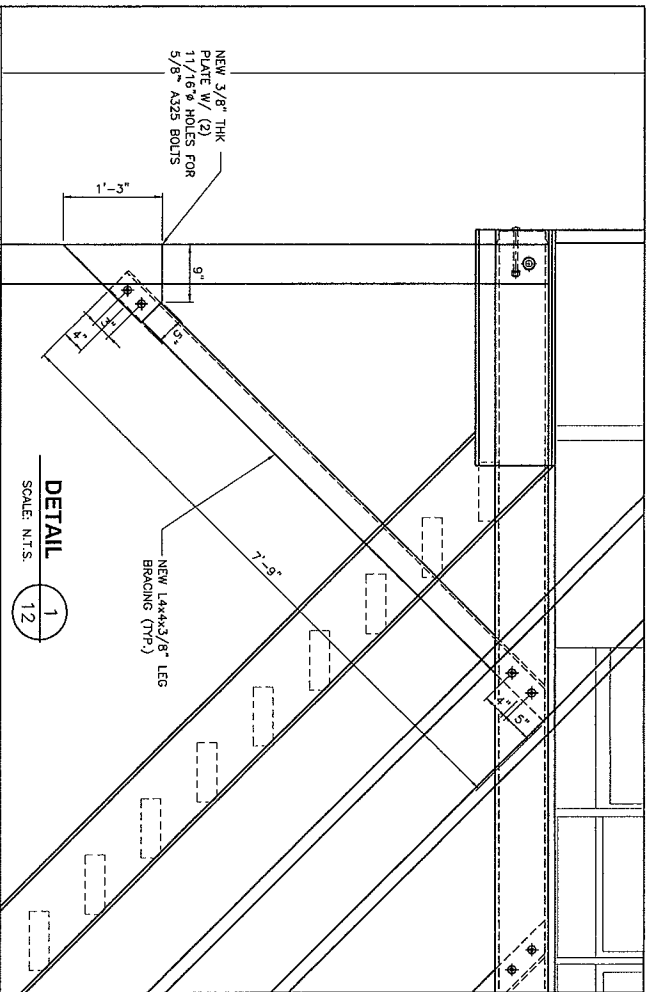
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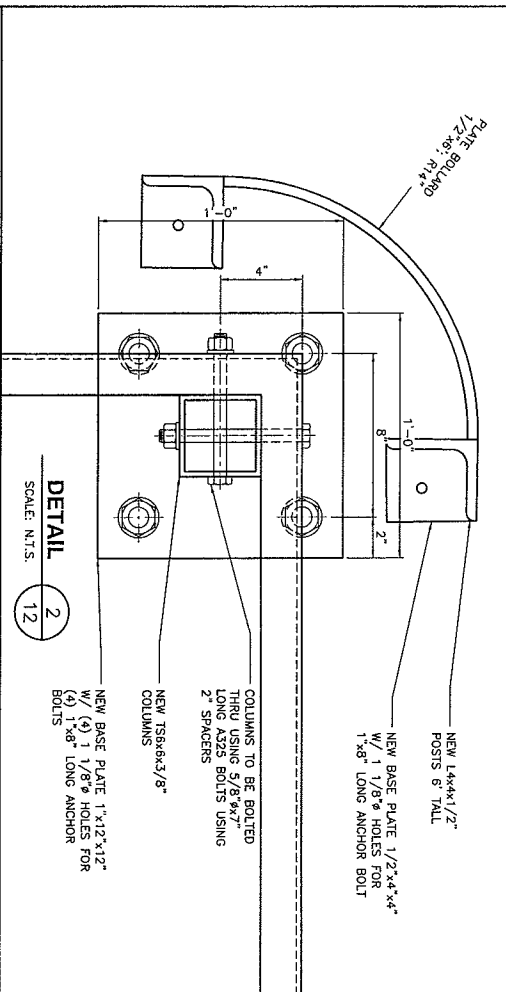
1	10/28/06	DESIGNED PER CLIENT REQUEST	CM	CM	MC
0	11/15/07	DESIGN FOR CONSTRUCTION	CM	CM	MC
0	11/01/07	DESIGN FOR REVIEW	CM	CM	MC
NO	DATE	REVISION	BY	CHKD	APP'D

PROFESSOR OF ENGINEERING
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11/15/07

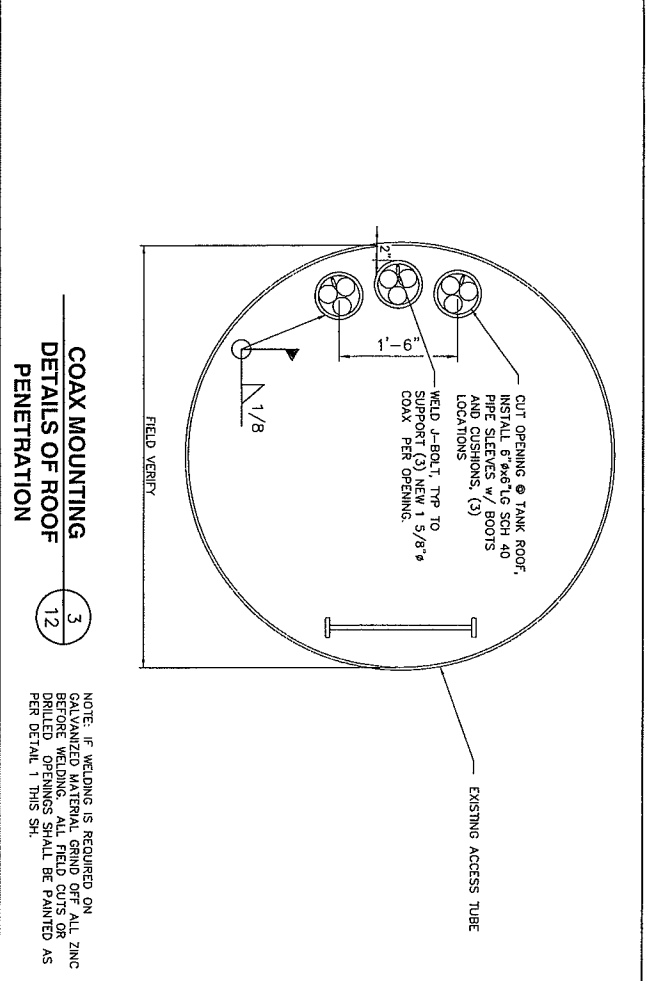
CRICKET COMMUNICATIONS
PLATFORM ELEVATIONS
PROJECT NUMBER
ORD-311-A-11
DRAWN DOUGLAS
BY
0



DETAIL 1
SCALE: N.T.S.



DETAIL 2
SCALE: N.T.S.



**COAX MOUNTING
DETAILS OF ROOF
PENETRATION 3**
SCALE: N.T.S.

NOTE: IF WELDING IS REQUIRED ON GALVANIZED MATERIAL, GRIND OFF ALL ZINC BEFORE WELDING. ALL FIELD CUTS OR DRILLED OPENINGS SHALL BE PAINTED AS PER DETAIL 1 THIS SH.

ClearLinx DESIGN, INC.
100 CORPORATE PKWY, SUITE G-1
BIRMINGHAM, AL 35242
PHONE: (205) 408-1771
FAX: (205) 408-8177

ORD-311-A
DOWNERS GROVE W/ 71ST & CAMDEN RD
1724 71ST STREET
DOWNERS GROVE, IL
60518

Denali Spectrum Operations LLC, dba cricket®

NO.	DATE	ISSUED FOR	BY	CHKD BY
0	11/15/07	ISSUED FOR CONSTRUCTION	CR	GAJ LJC
1	11/20/07	ISSUED FOR RENEW	CR	GAJ LJC

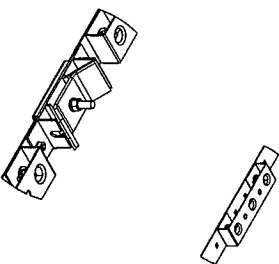
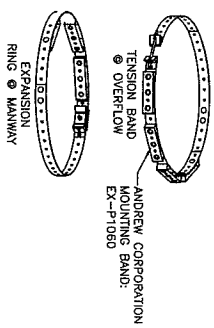
SCALE: AS SHOWN DESIGNED BY: C. MACHOLS DRAWN BY: C. MACHOLS



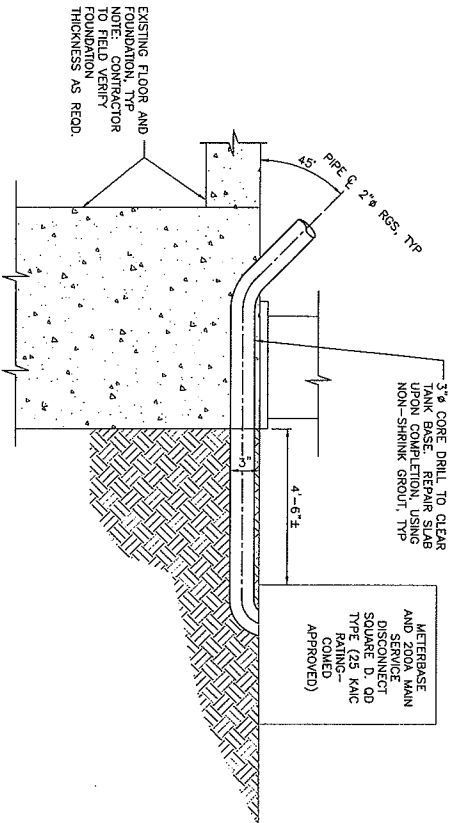
CRICKET COMMUNICATIONS

PROJECT NUMBER	DRAWING NUMBER	REV
	ORD-311-A-12	0

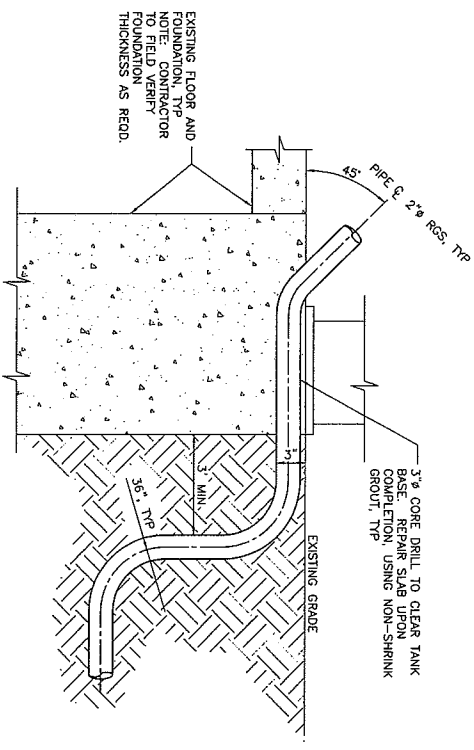
NOTE: TOWER DETAILS NOT AVAILABLE FOR THIS STRUCTURE. CONTRACTOR TO VISIT SITE BEFORE CONSTRUCTION AND VERIFY ALL DIMENSIONS OF MANNWAY AND OVERFLOW PIPE



- STRUCTURAL STEEL NOTES:**
1. ALL STRUCTURAL STEEL SHALL BE A-36
 2. ALL BOLTS SHALL BE A539 GRADE B
 3. ALL NUTS SHALL BE A539 GRADE B
 4. ALL A-325 BOLTS, NUTS, AND WASHERS SHALL BE AMERICAN MADE. THE MANUFACTURER SHALL PROVIDE CERTIFICATION THAT THEY ARE AMERICAN MADE.
 5. ALL STRUCTURAL STEEL AND PIPE TO BE HOT DIPPED GALVANIZED PER ASTM A123. ALL NUTS AND WASHERS TO BE GALVANIZED PER ASTM A153.
 6. ALL PIPE SHALL BE GALVANIZED INSIDE AND OUTSIDE.
 7. EDGE DISTANCE 1 1/4" UNLESS OTHERWISE NOTED.
 8. HOLES SHALL BE PUNCHED OR DRILLED 1/16" LARGER THAN THE DIAMETER OF THE BOLTS THEY WILL BE USED UNLESS OTHERWISE NOTED.
 9. ALL FIELD DRILLED HOLES SHALL BE CUT ENDS SHALL BE GIVEN TWO (2) COATS OF ZINC GALVALUME GALVANIZING REPAIR COMPOUND OR APPROVED EQUIVALENT. TOUCH UP AND REPAIR OF GALVANIZED SURFACES SHALL BE PERFORMED PER THE REQUIREMENTS OF ASTM A-780.
 10. ALL U-BOLTS SHALL HAVE 2 EA NUTS PER LEG OR ONE ANCO LOCK NUT.



POWER ENTRY DETAIL 3
SCALE: N.T.S.



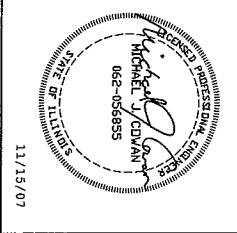
TELCO ENTRY DETAIL 4
SCALE: N.T.S.

NO.	DATE	REVISIONS	BY	CHK'D	APP'D
1	02/22/06	ISSUED PER CLIENT REQUEST	CH	SM	MC
2	09/11/06	REVISION PER CLIENT REQUEST	CH	SM	MC
3	11/19/07	ISSUED FOR CONSTRUCTION	CH	SM	MC
4	11/19/07	ISSUED FOR REVIEW	CH	SM	MC
5	11/19/07	REVISIONS	CH	SM	MC

Clearlinx DESIGN, INC.
100 CORPORATE PKWY, SUITE G-1
BIRMINGHAM, AL 35242
PHONE: (205) 408-7171
FAX: (205) 408-7877

DOWNERS GROVE WT 71ST & CAMDEN RD
1724 71ST STREET
DOWNERS GROVE, IL
60516

cricket
Denali Spectrum Operations LLC, dba



CRICKET COMMUNICATIONS
MISC. DETAILS

PROJECT NUMBER	DRWG. NUMBER	REV
	ORD-311-A-13	1

TECHNICAL SPECIFICATION NOTES

- GENERAL**
- THE TYPICAL NOTES SHALL APPLY FOR ALL CASES UNLESS OTHERWISE SPECIFICALLY DETAINED WITHIN THE DRAWINGS. SOME NOTES MAY NOT BE APPLICABLE IN PART OR IN WHOLE FOR EVERY PRODUCT.
 - ANY ITEMS REFERENCED AS BEING ON "HOLD" ARE TO BE INCLUDED IN THE WORK AS SHOWN, HOWEVER, CONSTRUCTION OR FABRICATION IS NOT TO BEGIN UNTIL THE "HOLD" REFERENCE IS REMOVED.
 - DIMENSIONS CONTAINED WITHIN MUST BE FIELD VERIFIED AND CUSTOMER APPROVED PRIOR TO FABRICATION OF MATERIALS.
 - THE MODIFICATIONS DEPICTED IN THESE DRAWINGS ARE INTENDED TO PROVIDE STRUCTURAL SUPPORT FOR THE ADDITION OF THE ANTENNA SCREENING SYSTEMS OUTLINED WITHIN. THE EXISTING STRUCTURE OR FOUNDATION SHALL BE ANALYZED AND RETROFITTED AS REQUIRED, BY OTHERS, TO MEET THE LOADS AND MOMENTS IMPOSED BY THE NEW STEALTH ENCLOSURE SHOWN ON THE DRAWINGS.
 - ANTENNA SCREEN WALL ENCLOSURE SHALL BE INSTALLED BY A CONTRACTOR EXPERIENCED IN SIMILAR WORK. CARE SHALL BE TAKEN IN THE DESIGN AND CONSTRUCTION OF THE ENCLOSURE TO COMPLY WITH THE RECOGNIZED INDUSTRY STANDARDS AND PROVISIONS OF THE OSHA SAFETY GUIDELINES ARE TO BE FOLLOWED. STEALTH IS NOT PROVIDING FIELD INSTALLATION SUPERVISION.
 - THESE DRAWINGS INDICATE THE MAJOR OPERATIONS TO BE PERFORMED, BUT DO NOT SHOW EXACT DIMENSIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE FIELD DIMENSIONS PRIOR TO BEGINNING OF WORK. THE CONTRACTOR SHOULD VERIFY THE JOB SITE THOROUGHLY TO MINIMIZE FIELD PROBLEMS.
 - CONSTRUCTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
 - THE STRUCTURAL INTEGRITY OF THIS STRUCTURE IS DESIGNED TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN TEMPORARY BRACING OR SHORING WHICH MAY BE REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION. SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
 - THE PLANS AND DETAILS WITHIN DO NOT INCLUDE DETAILS OR DESIGN FOR DRAINAGE FROM OR WITHIN THE BUILDING OR INTERIOR SURFACES OF THE EXISTING BUILDING OR STRUCTURE.
- STEALTHSCREEN PANELS**
- FASTENER HOLES IN STEALTHSCREEN FOAM COMPOSITE PANELS ARE NOT FACTORY DRILLED AND MUST BE DRILLED IN THE FIELD.
 - PANEL FASTENERS TO BE SPACED 18" O.C. MAX. AND LOCATED 6" MAX. HORIZONTALLY FROM EACH EDGE AT TOP AND BOTTOM OF PANEL. MAINTAIN 1/2" MIN. EDGE DISTANCE FROM ALL EDGES.
 - WIDE PANELS REQUIRE (3) FASTENERS TOP AND BOTTOM.
 - WIDE PANELS REQUIRE (4) FASTENERS TOP AND BOTTOM.
 - WIDE PANELS REQUIRE (2) FASTENERS TOP AND BOTTOM PER SIDE.
 - WHEN FASTENER BOLT HEAD OR NUT BEARS DIRECTLY ON SURFACE OF STEALTHSCREEN PANEL, TIGHTEN PANEL BOLTS ONLY 1/2 TURN. PASTE THIN BEAD OF EPOXY TO LOOK THROUGH THE HOLES OF FRP BOLTS. USE WASHER OR FLANGED HEAD BOLT, OR FASTENER WITH LARGE BEARING SURFACE.
 - PANELS WILL EXPAND AND CONTRACT DUE TO TEMPERATURE WHEN INSTALLING PANELS IN COLD WEATHER. THE CONTRACTOR SHALL MAINTAIN LENGTH OF SCREEN WALL WITH EQUAL GAPS BETWEEN PANELS TO ALLOW FOR EXPANSION DURING WARM TEMPERATURES.
 - ADJACENT FLAT PANELS ARE JOINED BY A VERTICAL FOAM SPUNE THAT IS INSERTED INTO GROOVES CUT INTO THE STEALTHSCREEN PANELS. THE PANELS ARE JOINED BY A VERTICAL H-CHANNEL. INSERT INTO GROOVES. PANELS MUST BE LIFTED WITH FORCE DIRECTED ONTO PANEL SURFACE.
- ADJACENT RADIUS PANELS ARE JOINED BY A VERTICAL H-CHANNEL. INSERT PANELS INTO EACH SIDE OF H-CHANNEL.
 - RADIUS PANELS MUST BE EVENLY SPACED ALONG RADIUS SUPPORT.
 - CONTRACTOR TO MEASURE LENGTH OF RADIUS SUPPORT AND DIVIDE BY THE NUMBER OF RADIUS PANELS TO DETERMINE PROPER SPACING. H-CHANNEL CONNECTORS ARE USED TO COVER THE GAP BETWEEN PANELS AND TO ALLOW FOR PANEL EXPANSION AND CONTRACTION.
 - SURFACES OF PANELS SHALL BE COATED WITH SUITABLE PAINT FOR UV PROTECTION. USE SHERWIN WILLIAMS "COROTANE II" OR EQUIVALENT.
 - EXPOSED TOP AND SIDE EDGES OF PANELS MUST BE COVERED OR COATED FOR UV PROTECTION. TOP EDGE OF PANEL MUST BE COVERED TO PREVENT WATER TRAVEL BETWEEN PANELS. STEALTH WILL PROVIDE PANEL EDGE CAPS TO BE FIELD APPLIED FOR THIS PURPOSE FOR MOST APPLICATIONS.
- FRP STRUCTURAL MEMBERS**
- FRP STRUCTURAL SHAPES SHALL BE STEALTH FRP SERIES 1325, MANUFACTURED USING THE PULTRUSION PROCESS.
 - IF PREFABRICATED MEMBERS DO NOT ASSEMBLE PER PLAN, CONTACT STEALTH CONCRETE SOLUTIONS, INC. BEFORE CUTTING OR ALTERING FABRICATED MEMBERS.
 - FRP STRUCTURAL MEMBERS SHALL BE FABRICATED AND ASSEMBLED AS INDICATED ON THE DRAWINGS.
 - THE CONTRACTOR SHALL PROTECT THE FRP STRUCTURAL MEMBERS FROM ABUSE TO PREVENT BRUISING, NICKS, GOUGES, ETC. DURING FABRICATION, HANDLING, AND INSTALLATION.
 - COAT ANY CUT OR DRILLED EDGES OF FRP STRUCTURAL MEMBERS WITH HETROGLAC OR EQUIVALENT RESIN OR ACRYLIC SEALER.
- STRUCTURAL STEEL**
- STEEL FABRICATION AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL, AND SPECIFICATIONS.
 - STEEL I-SHAPE, ANGLE, CHANNEL, PLATE AND MISCELLANEOUS MEMBERS SHALL CONFORM TO ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS.
 - STEEL TUBE MEMBERS (HSS) SHALL CONFORM TO ASTM A500 GRADE B (46 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS.
 - STEEL PIPE MEMBERS SHALL CONFORM TO ASTM A53 TYPE E GRADE B (35 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS.
 - BOLTS SHALL BE DOMESTIC, NEW, 4" DIAMETER, HIGH STRENGTH GALVANIZED STEEL BEARING TYPE 3" (THREADS EXCLUDED), UNLESS NOTED OTHERWISE, AND SHALL CONFORM TO ASTM A325 SPECIFICATIONS.
 - BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD.
 - BOLT HOLE EDGE DISTANCES SHALL BE 1" UNLESS NOTED OTHERWISE.
 - WELDING SHALL BE DONE USING E-70 ELECTRODES AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) STANDARDS AND SPECIFICATIONS.
 - STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 SPECIFICATIONS AFTER FABRICATION.
 - STEEL HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM A153.
 - AFTER ANY FIELD HOLE PUNCHING/DRILLING OR CUTTING HAS BEEN COMPLETED, OR FOR ANY DAMAGED STRUCTURAL MEMBERS, TOUCH UP ALL BARE MATERIAL AND WELDED AREAS WITH TWO COATS OF GAL-COAT OR EQUIVALENT MATERIAL TO RESTORE THE GALVANIZED PROTECTION ON THE MEMBERS.

STEALTH ANTENNA NOTES

ClearLinx
DESIGN BUILDING
100 CORPORATE PARK, SUITE G-1
BIRMINGHAM, AL 35242
PHONE: (205) 408-7171
FAX: (205) 408-7877

ORD-311-A
DOWNERS GROVE W/ 71ST & CAMDEN RD
178471ST STREET
DOWNERS GROVE, IL
60516

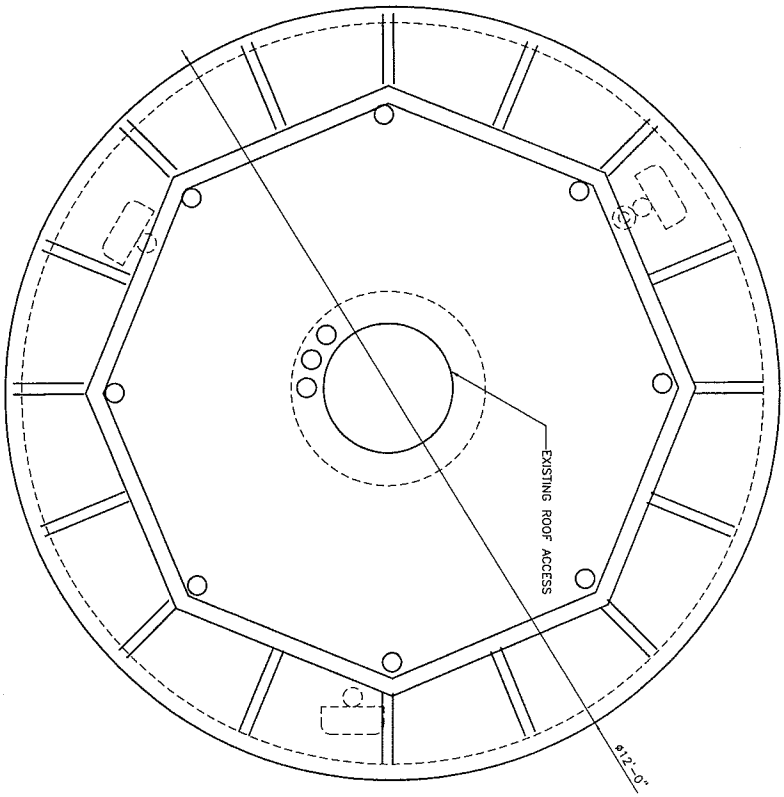
cricket
Denali Spectrum Operations LLC, dba

NO.	DATE	REVISIONS	DESIGNED BY: C. NICHOLS	DRAWN BY: C. NICHOLS
1	03/17/06	ISSUED PER CLIENT REQUEST	CN	CA
2	11/16/07	ISSUED FOR CONSTRUCTION	CN	CA
3	11/01/07	ISSUED FOR REVIEW	CN	CA
4			CN	CA
5			CN	CA

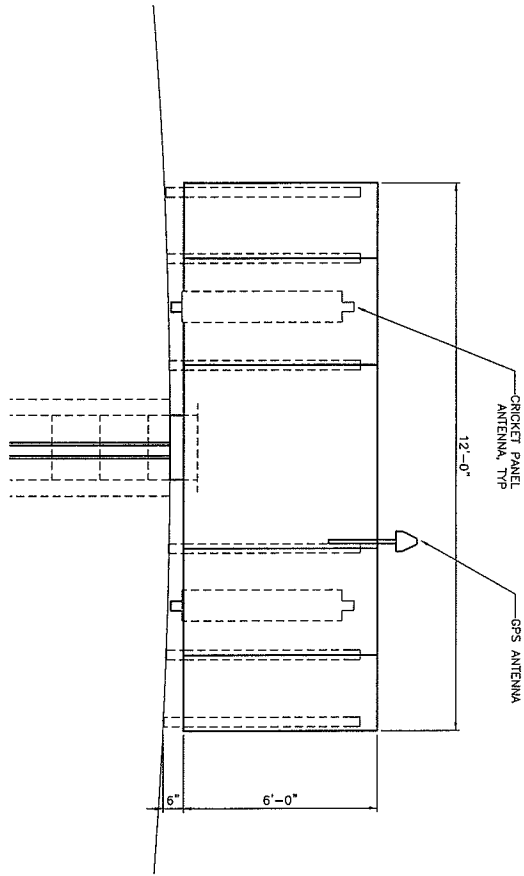
PROFESSIONAL ENGINEER
MICHAEL J. DUVAN
062-056895
STATE OF ILLINOIS
11/15/07

NOTE:
THIS DRAWING IS THE PROPERTY OF
STEALTH CORPORATION. REFER TO
DESIGN BY STEALTH CORP.

CRICKET COMMUNICATIONS
STEALTH ANTENNA NOTES
PROJECT NUMBER
DRAWING NUMBER
ORD-311-A-14
1



STEALTH SHROUD PLAN



STEALTH SHROUD ELEVATION

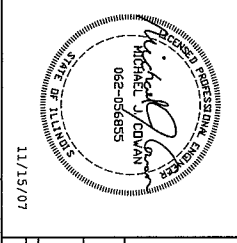
NOTE: TO FINAL DESIGN BY STEALTH CONCEALMENT SOLUTIONS.

NO.	DATE	REVISIONS	DESIGNED BY	CHECKED BY	DATE
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A	11/01/07	ISSUED FOR REVIEW	CN	GM	JC

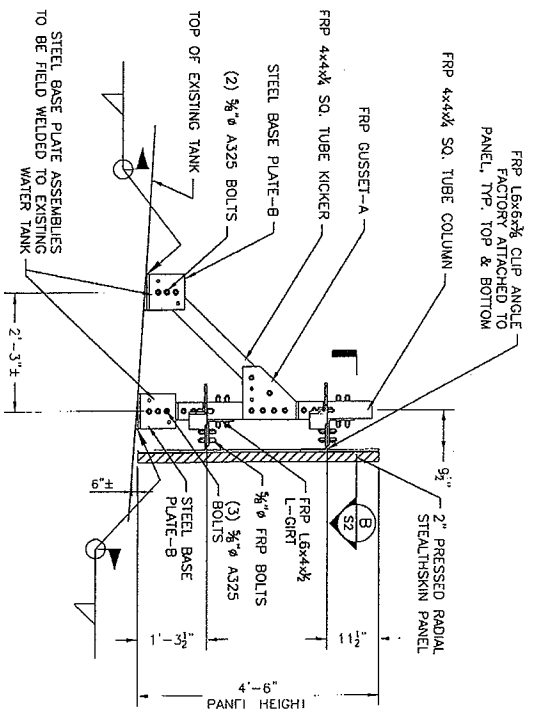
ClearLinx
DESIGN, INC.
100 CORPORATE PKWY, SUITE G-1
BIRMINGHAM, AL 35242
PHONE: (205) 408-7871
FAX: (205) 408-7877

ORD-311-A
DOWNERS GROVE MT 71ST & CAMDEN RD
1794 71ST STREET
DOWNERS GROVE, IL
60518

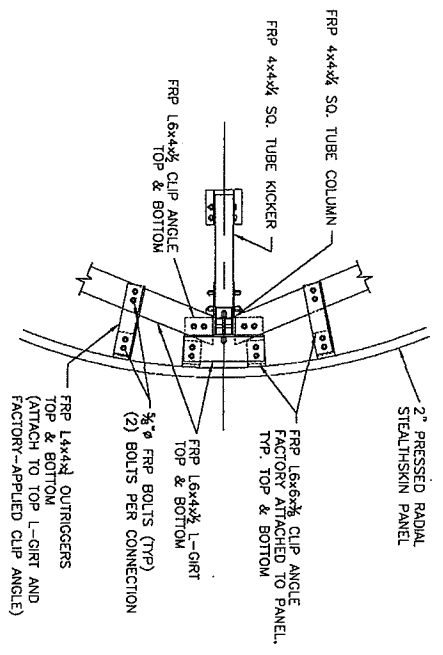
cricket
Denali Spectrum Operations LLC, dba



CRICKET COMMUNICATIONS
STEALTH ANTENNA DETAILS
PROJECT NUMBER: ORD-311-A-15
DRAWING NUMBER: REV
1



A SECTION
SCALE: 1/2"=1'-0"



B SECTION
SCALE: 1/2"=1'-0"

MAXIMUM SUPPORT REACTIONS

AT COLUMNS:
 VERTICAL = 400 LBS (GRAVITY ONLY)
 VERTICAL = ±300 LBS (WIND ONLY)
 HORIZONTAL = ±100 LBS (WIND @ 0°)
 HORIZONTAL = ±1500 LBS (WIND @ 90°)
 MOMENT = ±500 FT-LBS (WIND @ 90°)

AT DIAGONAL BRACE:
 VERTICAL = ±300 LBS (WIND ONLY)
 HORIZONTAL = ±500 LBS (WIND ONLY)

NOTE: ANALYSIS OF EXISTING WATER TANK IS BY OTHERS.

NOTE:
 THIS DRAWING IS THE PROPERTY OF
 STEALTH CORPORATION. REFER TO FINAL
 DESIGN BY STEALTH CORP.

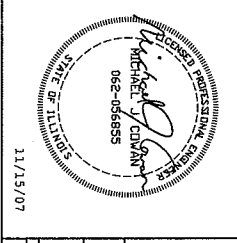
STEALTH ANTENNA DETAILS

ClearLinx
 DESIGN, INC.
 100 CORPORATE PKWY, SUITE G-1
 BIRMINGHAM, AL 35242
 PHONE: (205) 968-7171
 FAX: (205) 968-7877

ORD-311-A
 DOWNERS GROVE, W/ 71ST & CAMDEN RD
 1704 71ST STREET
 DOWNERS GROVE, IL
 60518

cricket
 Denali Spectrum Operations LLC, dba

NO.	DATE	REVISIONS	DESIGNED BY:	CHECKED BY:	DATE
0	11/15/07	ISSUED FOR CONSTRUCTION			
1	11/09/07	ISSUED FOR REVIEW			



PROJECT NUMBER	DRAWING NUMBER	REV
STEALTH ANTENNA DETAILS	ORD-311-A-16	1

AFTER RECORDING, PLEASE RETURN TO:

**Cricket Communications, Inc.
10307 Pacific Center Court
San Diego, CA 92121
Attn: Legal Department**

**Property Tax ID Number: 09-30-101-005
County: DuPage
ORD-311-A**

Memorandum of License

Village of Downers Grove ("Licensor") and Denali Spectrum Operations, LLC, a Delaware corporation ("Licensee") entered into a Site Lease dated _____, 2008 ("Agreement") regarding a portion of the real property located at 1724 71st Street, Downers Grove, IL 60516 as more particularly described in the attached Exhibit A ("Property").

The Agreement is for a term of five (5) years and will commence on the date as set forth in the Agreement ("Commencement Date") and shall terminate at midnight on December 31, 2012. Tenant shall have the right to extend this Agreement for two (2) additional five (5) year terms.

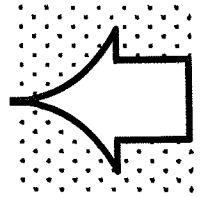
IN WITNESS WHEREOF, the parties hereto have executed this memorandum effective as of the date of the last party to sign.

(SIGNATURES ON FOLLOWING PAGE)

IN WITNESS WHEREOF, the parties hereto have executed this memorandum effective as of the date of the last party to sign.

LICENSOR: VILLAGE OF DOWNERS GROVE,
a municipal corporation

By: _____
Printed Name: _____
Its: _____



LICENSEE: DENALI SPECTRUM OPERATIONS, LLC
a Delaware limited liability company

By: Denali Spectrum License, LLC
Its sole member
By: Denali Spectrum, LLC
Its sole member
By: Denali Spectrum Manager, LLC
Its manager
By: Doyon, Limited
Its manager

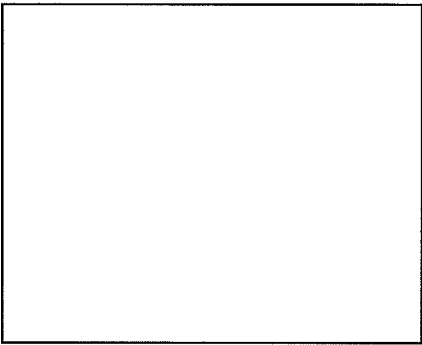
By: *Brian Root*
Brian Root: Brian Root
Title: Operations Manager

LICENSOR:

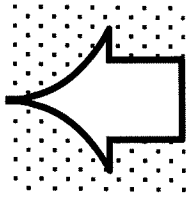
STATE OF _____)
) ss.
COUNTY OF _____)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as the _____ of the Village of Downers Grove to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

Dated: _____.



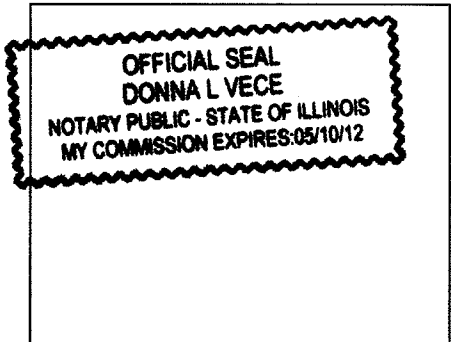
Notary Public
Print Name _____
My commission expires _____



LICENSEE:

STATE OF Illinois _____)
) ss.
COUNTY OF Cook _____)

I certify that I know or have satisfactory evidence that Brian Root is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as its Operations Manager of Denali Spectrum Operations, LLC, to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.



Donna L. Vece
Notary Public
Print Name DONNA L. Vece
My commission expires 5-10-12

EXHIBIT A
Legal Description

The Property is legally described as follows:

That part of the fractional southwest quarter of section 19 and the northwest quarter of section 30, all in township 33 north, range 11 east of the third principal meridian, DuPage County, Illinois, described as follows: commencing at the northeast corner of said northwest quarter of section 30; thence north $89^{\circ} 56' 53''$ west along the north line of said northwest quarter of section 30 for a distance of 838.02 feet to a point on a west line of a parcel of land leased by the Young Men's Christian Association of Metropolitan Chicago, to the United States of America, dated October 16, 1967 and recorded November 17, 1967 in the Recorder's office of DuPage County, Illinois as document number R67-45503 being also the point of beginning; thence south $00^{\circ} 03' 07''$ west along a west line of said parcel of land leased to the United States of America by document R67-45503 for a distance of 139.32 feet to the centerline of proposed 71st Street; thence westerly along said centerline of proposed 71st Street, being a curve concave to the north, having a tangent bearing of north $79^{\circ} 01' 23''$ west and having a radius of 1093.95 feet for a distance of 81.79 feet to a point of reverse curve; thence continuing westerly along said centerline of proposed 71st Street, being a curve concave to the south, having a radius of 1478.89 feet for a distance of 239.24 feet to a line which (divides the fractional southwest quarter of said section 19 approximately equally by distance); thence north $00^{\circ} 06' 51''$ east along the last described line for a distance of 165.22 feet; thence south $89^{\circ} 56' 53''$ east along a line parallel with the north line of said section for a distance of 314.39 feet to a said west line of a parcel of land leased to the United States of America by document number R67-45503; thence south $00^{\circ} 03' 07''$ west along a said west line of a parcel of land leased to the United States of America by document number R67-45503 and the southerly prolongation of a said west line of a parcel of land leased to the United States of America by document number R67-45503 for a distance of 228.54 feet to said point of beginning.

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING A LICENSE AGREEMENT BETWEEN THE VILLAGE OF DOWNERS GROVE AND DENLAI SPECTRUM OPERATIONS, LLC TO INSTALL, MAINTAIN AND OPERATE AN ANTENNA ON VILLAGE PROPERTY (801 BURLINGTON AVENUE)

BE IT RESOLVED by the Village Council of the Village of Downers Grove, DuPage County, Illinois, as follows:

1. That the form and substance of a certain License Agreement (the “Agreement”) and accompanying Memorandum of License, between the Village of Downers Grove (the “Village”) and Denali Spectrum Operations, LLC (the “Licensee”), for the installation, maintenance and operation of an antenna on Village property located at 801 Burlington Avenue, as set forth in the form of the Agreement submitted to this meeting with the recommendation of the Village Manager, is hereby approved.

2. That the Mayor and Village Clerk are hereby respectively authorized and directed for and on behalf of the Village to execute, attest, seal and deliver the Agreement, substantially in the form approved in the foregoing paragraph of this Resolution, together with such changes as the Manager shall deem necessary.

3. That the proper officials, agents and employees of the Village are hereby authorized and directed to take such further action as they may deem necessary or appropriate to perform all obligations and commitments of the Village in accordance with the provisions of the Agreement.

4. That all resolutions or parts of resolutions in conflict with the provisions of this Resolution are hereby repealed.

5. That this Resolution shall be in full force and effect from and after its passage as provided by law.

Mayor

Passed:

Attest: _____
Village Clerk

LICENSE AGREEMENT BETWEEN THE VILLAGE OF DOWNERS GROVE AND DENALI SPECTRUM OPERATIONS, LLC TO INSTALL, MAINTAIN AND OPERATE AN ANTENNA ON VILLAGE PROPERTY

WHEREAS, the Village of Downers Grove (hereinafter referred to as the “Village”) is an Illinois municipal corporation and a home rule unit, pursuant to the laws of the State of Illinois; and

WHEREAS, the Village is the lessor of certain real estate located at 801 Burlington Avenue, Downers Grove, Illinois, upon which is located the Village Communication Lattice Tower (hereinafter referred to as the “Tower”); and

WHEREAS, Denali Spectrum Operations, LLC (also known as Denali Spectrum License, LLC, Denali Spectrum, LLC, Denali Spectrum Manager, LLC and Doyson, Limited)(hereinafter referred to as the “Licensee”) has requested permission to install an antenna on the top of the Tower and its related equipment on ground space near the Tower (hereinafter referred to as the “Antenna”); and

NOW, THEREFORE, in consideration of the mutual promises, covenants and conditions, the Village and the Licensee agree as follows:

1. CONTRACT DOCUMENTS:

The provisions set forth in the preamble and the following exhibits are incorporated into and made a part of this Agreement:

- a. Exhibit 1 - Site map of the Property dated, _____, 2008, and approved by the Village on _____, 2008, showing the Tower Space and Ground Space, together with the areas on the Property licensed to Licensee to provide access and utility service to the Ground Space (collectively the “Licensed Premises”) which includes location of any proposed underground utilities necessary for operation of the Antenna.
- b. Exhibit 2 - Plans and specifications dated _____, 2008, and approved by the Village on _____, 2008, for the Antenna and any cables or utility lines to be installed on the Licensed Premises and used for housing of the related Antenna equipment (collectively “Licensee’s Improvements”).

2. GRANT OF LICENSE:

The Village hereby grants to the Licensee the right, permission and authority to install, operate and maintain Licensee’s Improvements upon the terms and conditions hereinafter specified. This Agreement shall not terminate upon the sale, assignment or transfer of the property, but shall run with the land. In the event that the tower is removed, this contract shall cease and neither the Village nor the Licensee will not be responsible or liable for replacement or rent.

3. **SPECIFICATIONS:** The Licensee shall comply with the following specifications:

a. *In general:* During the term of this Agreement, there shall be no variations, modifications, or upgrades from the plans and specifications of Exhibits 1 and 2 without the prior written approval of the Village, which approval shall not be unreasonably withheld or delayed.

b. *Antenna:* The Antenna shall be for the operation of radio frequency: receive 1740 MHz; transmit 2135-2140 MHz. The Antenna shall be installed, attached to the Tower, and maintained in conformance with Exhibit 2 and any applicable State and federal requirements. The Antenna shall be located more than ten (10) feet from any existing antenna equipment and shall not exceed seventy-two (72) inches in height.

4. **CONSTRUCTION, INSTALLATION AND MAINTENANCE:**

The Licensee may install, repair, maintain, or replace the Antenna, subject to the following conditions:

a. Licensee shall obtain all required permits and authorizations from the Village, in accordance with the applicable ordinances, prior to commencing any work under this Agreement. Such work shall comply with applicable codes and regulations and shall be conducted in a workmanlike manner.

b. Licensee shall obtain all necessary approvals from any regulatory authorities for the operation of the Antenna. Further, the Licensee shall comply with all applicable laws and regulations of such regulatory authorities including, but not limited to the Federal Communications Commission.

c. All costs connected with the installation, maintenance, repair, use and removal of Licensee's Improvements and any related equipment shall be the responsibility of the Licensee.

d. Licensee shall not take any action or allow any action to be done which may impair the use of or damage the Tower.

e. The Licensee may not interfere with the use by the Village, its officers, agents and employees, of the Tower or the property on which it is located.

f. Except for emergency situations, the Village shall provide reasonable advance notice to Licensee when it conducts any Tower repair or maintenance work that affects the Antenna or function of the Antenna. Except for emergency situations, the Village shall not physically disturb Licensee's equipment without Licensee's permission. Licensee shall be entitled to access the equipment located on the Ground Space near the Tower twenty-four (24) hours a day, seven days a week. Licensee shall provide the Village reasonable advance notice when access to the antenna on top of the Tower is needed. Access to the Tower can only be obtained between the hours of 8:00 a.m. and 4:00 p.m. by calling the Water Manager at 630/434-5462, or in the event of an emergency after hours, by calling Village Operations Center at (630) 434-5706 or (630) 434-5707.

- g. The Licensee shall maintain Licensee's Improvements in good repair, and in a clean and sightly condition.
- h. Upon termination of this Agreement by either party, the Licensee shall, within thirty (30) days and at its expense, remove the Licensee Improvements and restore the Licensed Premises to substantially its original condition, reasonable wear and tear excepted.
- i. If Licensee abandons its use of Licensee's Improvements, Licensee shall, within thirty (30) days of receipt of written notice from the Village notifying the Licensee of such abandonment and at its expense, remove the Licensee's Improvements and restore the Tower to substantially its original condition. Licensee's Improvements will be presumed abandoned if it is not operated for a period of one month or more. If Licensee's Improvements are not removed within thirty (30) days, the Village may remove Licensee's Improvements and the Licensee shall reimburse the Village for the costs of such removal.

5. NON-INTERFERENCE WITH VILLAGE OPERATIONS:

Neither this Agreement nor Licensee's Improvements shall interfere or obstruct the functioning of the Village's operations and services. Licensee warrants that Licensee's Improvements shall be constructed, installed, maintained and operated in such a manner as to not interfere or obstruct any radio or electronic equipment or signals of the Village's radio and data systems. In the event such interference occurs, and the interference cannot be eliminated by Licensee after reasonable efforts, the Village may terminate this Agreement, in accordance with Paragraph 8(b) of this Agreement. Provided after notice to Licensee, the Village may immediately terminate this Agreement, or require that operation of the Antenna or any of Licensee's Improvements be immediately ceased where it determines that the Antenna or Licensee's Improvements present an immediate and serious danger to the public health, welfare or safety due to interference with the operation of the Village's radio and data systems.

6. TERM:

- a. This Agreement shall have an Initial Term of approximately five (5) years beginning upon the issuance of a building permit in 2008, and ending December 31, 2012, and two (2) five-year Extension Terms beginning January 1, 2013, and January 1, 2018, respectively. The first extension term beginning January 1, 2013, shall automatically commence. The second extension term beginning January 1, 2018, shall automatically commence unless either party provides the Village with written notice of its election not to renew the License at least one hundred and twenty (120) days prior to the expiration of the current term. The final date of the agreement shall be December 31, 2022.
- b. After February 1, 2018, Licensee may request the Village to enter into negotiations towards renewing or extending this Agreement. Any renewal or extension shall be according to terms that are mutually agreeable and the Village shall not be bound to accept any particular terms or to renew any or all of the rights granted by this Agreement.

7. COMPENSATION:

Beginning in 2008, upon the issuance of a building permit, Licensee shall pay to the Village a license fee of \$3200.00 per month in 2008. Thereafter, effective on the first day of January in the subsequent years of the agreement, the monthly license fee shall increase in an amount equal to the fee for the preceding year multiplied by 4%. The fee shall be paid to the Village of Downers Grove, Village Hall, 801 Burlington Avenue, Downers Grove, IL 60515.

8. TERMINATION:

This Agreement may be terminated as follows:

a. Licensee may terminate this Agreement at any time upon sixty (60) days written notice to the Village without further liability if Licensee does not obtain all permits or other approvals required from any governmental authority or any easements required from any third party to operate the PCS system, or if any such approval is canceled, expires or is withdrawn or terminated, or if the Village fails to have proper ownership of the site or authority to enter into this Agreement, or if Licensee, for any other reason, in its sole discretion, determines that it will be unable to use the Property, however, if Licensee terminates this Agreement without cause, it shall pay the Village a termination penalty equal to three months of the current rental amount.

b. In the event either party fails to comply with the terms of this Agreement such party shall be considered in default and the non-defaulting party may serve written notice of its intent to terminate this Agreement. Except where the public health or safety is threatened, the notice shall give the defaulting party not less than thirty (30) days to correct such non-compliance. In the event the default is not corrected within thirty (30) days of such notice, the non-defaulting party may terminate this Agreement by serving a written notice of termination. Notwithstanding the preceding, if any default cannot be cured within thirty (30) days and the defaulting party has diligently commenced and continues to take reasonable action necessary to cure the default, the defaulting party shall be entitled to a reasonable extended period of time in order to cure the default.

c. In the event the Tower is destroyed or substantially damaged so as to substantially effect Licensee's use of the property, this Agreement shall be considered terminated.

9. TOWER REPAIR/MAINTENANCE:

Upon receiving ninety (90) days notice from the Village that it intends to repair or perform maintenance to the Tower, Licensee shall, at its own expense and in such manner as the Village shall reasonably request, immediately remove, relocate, change or alter the position of Licensee's Improvements. During the term of this Agreement, the Tower may be refurbished and/or painted. Refurbishment and/or painting will take several months to complete (approximately five to eight months). Prior to beginning refurbishment and/or painting, Licensee understands that its Antenna shall be removed from the Tower upon notice from the Village and that the Antenna shall not be reinstalled until the refurbishment and/or painting is

Site name: 801 Burlington – Lattice Tower

completed and the Village has approved such reinstallation, which approval shall not be unreasonably withheld, conditioned or delayed. During such period, Licensee may, at its sole cost and expense, install the Antenna on a temporary telephone pole or bring a cell on wheels outside the shrouded area of the tower in a location approved by the Village. However, such temporary arrangement shall not interfere with the refurbishment and/or painting of the tower or with other Village operations on the site. The Village shall not be responsible for any costs of removal, relocation, and reinstallation of the Antenna as a result of the refurbishment and/or painting.

10. RESTORATION:

When the Licensee does any work on or affecting the Licensed Premises, it shall, at its own expense, restore the Licensed Premises to as good a condition as existed before the work was undertaken, unless otherwise directed by the Village. If the Licensee fails to restore the Licensed Premises, the Village may, after communications with the Licensee and after affording the Licensee a reasonable opportunity to correct the situation, restore the Licensed Premises, or remove the obstruction therefrom. No such prior written notice shall be required in the event that the Village determines that an emergency situation exists. The Licensee shall pay the Village for any reasonable costs of such restoration within fourteen (14) days after receiving a bill from the Village for such work.

11. UTILITIES:

Licensee shall be responsible for obtaining adequate utilities for operation of Licensee's Improvements, including electricity from any source available on the Property as along as the electricity for Licensee's Improvements are separately metered. Any utilities to be installed must be underground and at a location approved by the Village. Licensee shall pay for the electricity or any other utility it consumes in its operations at the rate charged by the servicing utility company and the Village shall not be liable for such charges.

12. TAXES:

Licensee is solely responsible for payment of taxes on the leasehold. Licensee is solely responsible to determine the taxes owed and to comply with the DuPage County payment procedures. Licensee shall reimburse the Village for any personal or real property taxes which are assessed as a result of Licensee's Improvements and directly attributable to its use of the Property under the terms of this Agreement. Licensee shall have the right, at its own expense and without expense to the Village, to contest by appropriate proceedings, conducted with due diligence and in good faith, the validity of the amount of any taxes or reassessment as applicable to the Licensed Premises or the Licensee Improvements. In the event that the Village becomes aware of any tax delinquency and that delinquency is not cured by the Licensee, the Village shall have the right to remove any of Licensee's equipment and terminate the Agreement.

13. INDEMNIFICATION:

Licensee shall indemnify, become responsible for and hold harmless the Village, its boards, committees, commissions, officers, agents and employees from any and all liability

Site name: 801 Burlington – Lattice Tower

arising out of the existence of this Agreement; the installation, existence, maintenance or repair of Licensee's Improvements; or any act or omission of Licensee, its officers, agents and employees, except for liability which arises from the Village's or its employees' or agents' negligence or intentional misconduct.

For purposes of this Agreement, the term "liability" includes, but is not limited to: actual or claimed loss or damage to property or injury to or death of persons; actual or claimed responsibility for such loss, damage, injury or death; and any and all judgments, decrees, costs and expenses of every sort and kind of incident to such loss, damage, injury, death or responsibility, including, but not limited to, court costs, fines and attorney's fees.

14. INSURANCE:

At all times while this Agreement remains in effect, and in recognition of the indemnification provided in the foregoing Paragraph 13, the Licensee shall, at its own cost and expense, maintain a program of third party liability insurance and/or self-insurance to protect the Village, its officers, employees and agents from any liability for bodily injury, death, and property damage occasioned by the activities of the Licensee under this Agreement.

a. During the Term of the Agreement. Licensee shall procure, pay for and maintain in full force and effect during the entire term of the agreement (i) worker's compensation insurance as required by law and which insures Village against worker's compensation claims arising out of Licensee's activities on the Tower; (ii) fire and casualty insurance covering Licensee's Improvements in an amount not less than one hundred percent (100%) of their actual replacement cost; and (iii) commercial general liability insurance, including broad form property damage insurance, for bodily injuries and property damage, in amounts not less than One Million Dollars (\$1,000,000.00) per occurrence and One Million Dollars (\$1,000,000.00) in the aggregate covering bodily injuries or property damage occurring on the Tower.

b. During Construction/Installation. During construction/installation, Licensee's contractor shall also maintain and provide Village with evidence of each of the insurance coverages specified in subparagraph (a) and in the amounts so specified. In addition, the contractor shall provide builder's risk insurance on an "all risks" basis for one hundred percent (100%) of the insurable value of all construction work in place or in progress from time to time, insuring the project, including materials in storage and while in transit, against loss or damage by fire or other casualty, with extended coverage, vandalism and malicious mischief coverage, bearing a replacement cost agreed amount endorsement.

c. Policies. The policy or policies of insurance required by subparagraphs (a) and (b) shall be underwritten by a company or companies authorized to do business in the State of Illinois, shall be reasonably satisfactory to Village, shall name Village as an additional insured and shall be delivered to the Village, together with evidence of the payment of the premiums, prior to the commencement of the term of this Agreement. Licensee or, where applicable, Licensee's contractors shall furnish Village with a written notice of any cancellation, reduction or modification of insurance required under this Section.

15. LIENS:

Licensee agrees that it will not permit or suffer any lien to be put upon or arise or accrue against the Property in favor of any person or persons, individual or corporate, furnishing either labor or material in any work herein proposed, and the Licensee further covenants and agrees to hold the Village and its property free from any and all liens, or rights or claim of lien, which may or might arise or accrue under or be based upon any mechanic's lien law of the State of Illinois. If any such lien or claim for lien is filed or recorded against the Property, the Village shall give Licensee notice thereof and demand that Licensee remove the same, or post adequate security to insure the removal of the same following the resolution of any dispute between Licensee and the lienholder, within thirty (30) days after such notice. Nothing in this provision shall restrict Licensee from granting a security interest in all or any part of Licensee's Improvements and to file of record UCC financing statements and/or fixture filings to perfect the same.

16. ASSIGNMENT AND SUBLEASING:

This Agreement may not be assigned or transferred without the express written consent of the Village, which shall not be unreasonably withheld, conditioned or delayed. The Village agrees to respond to any such request within thirty (30) days from receipt of the request. Any assignment or transfer without such written consent shall, at the option of the Village, be deemed to be void and of no effect. Provided, however, this Agreement may be assigned or transferred to Licensee's parent or an subsidiary, successor legal entity or other affiliate of Licensee without the Village's written consent as long as the Village is given written notice of the assignment or transfer within 30 days thereof. The Village must approve any sublease and shall be entitled to 50% of any sublease in addition to the rental fee as described in Section 7, above.

17. HAZARDOUS SUBSTANCES:

a. The Village represents and warrants that it has no knowledge of any hazardous substance existing on the Property in violation of any applicable federal, State or local law, regulation or ordinance. The Village further agrees to hold Licensee harmless from and indemnify Licensee against any damage, loss or expense or liability resulting from the existence on the Property of any such hazardous substance, including all attorney's fees and consultant fees, costs and penalties, incurred as a result thereof, unless caused by Licensee or any of its employees or agents.

b. Licensee represents and warrants that its use of the Licensed Premises will not generate any hazardous substance, and that it will not store or dispose on the Licensed Premises, nor transport to or over the Licensed Premises, any hazardous substance in violation of any applicable federal, State or local law, regulation or ordinance. Licensee further agrees to hold the Village harmless from and against and indemnify the Village against any release of such hazardous substance and any damage, loss, or expense or liability resulting from such release, including attorney's fees and consultant fees, costs and penalties, incurred as a result thereof, which was caused by Licensee or any of its employees or agents.

Site name: 801 Burlington – Lattice Tower

c. “Hazardous Substance” as used herein shall mean any substance or material defined or designated as hazardous or toxic waste, hazardous or toxic materials, hazardous or toxic radioactive substance, or other similar term by any federal, State or local environmental law, regulation or ordinance presently in effect or promulgated in the future.

18. COST OF ENFORCEMENT:

The prevailing party in any action or proceeding in court or mutually agreed upon arbitration proceeding to enforce the terms of this Agreement shall be entitled to receive its reasonable attorney’s fees and other reasonable enforcement costs and expenses from the non-prevailing party.

19. INVALIDITY:

If any section, paragraph, clause or provision of this Agreement shall be held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the other provisions of this Agreement.

20. FORCE MAJEURE:

Neither party shall be deemed in violation of this Agreement for the delay in performance or failure to perform in whole or in part its obligations under this Agreement due to strike, war or act of war (whether an actual declaration is made or not), insurrection, riot, act of public enemy, fire, flood or other act of God or by other events to the extent that such events are caused by circumstances beyond such party's control.

21. NOTICES:

Unless otherwise specified herein, all notices under this agreement shall be made in writing and delivered to:

Village Manager
Village of Downers Grove
801 Burlington Avenue
Downers Grove, IL 60515-4776

And: Denali_Spectrum_Operations,_LLC
10307 Pacific Center Court
San Diego, CA 92121
Attn: Legal Department

In the event the Licensee moves, consolidates, merges, splits or otherwise reorganizes or moves its offices, it is the duty and obligation of the Licensee to provide written notification to the Village within thirty (30) days of any change.

22. GOVERNING LAW:

Site name: 801 Burlington – Lattice Tower

This Agreement shall be governed by the laws of the State of Illinois.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the ____ day of _____, 2008.

LICENSEE:

Denali Spectrum Operations, LLC
A Delaware Limited Liability Company
Denali Spectrum License, LLC
Its Sole Member
Denali Spectrum, LLC
Its Sole Member
Denali Spectrum Manager, LLC
Its Manager
Doyson, Limited
Its Manager

By: *Travis Root*

Title: *Operations Manager*

Subscribed and sworn to
this 15 day of May, 2008.

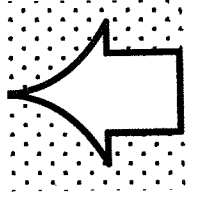
Donna L. Vece
Notary Public

VILLAGE OF DOWNERS GROVE

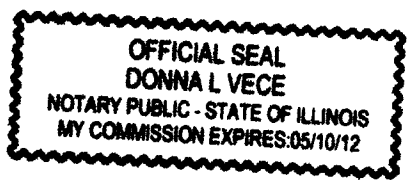
By: _____
Mayor

ATTEST:

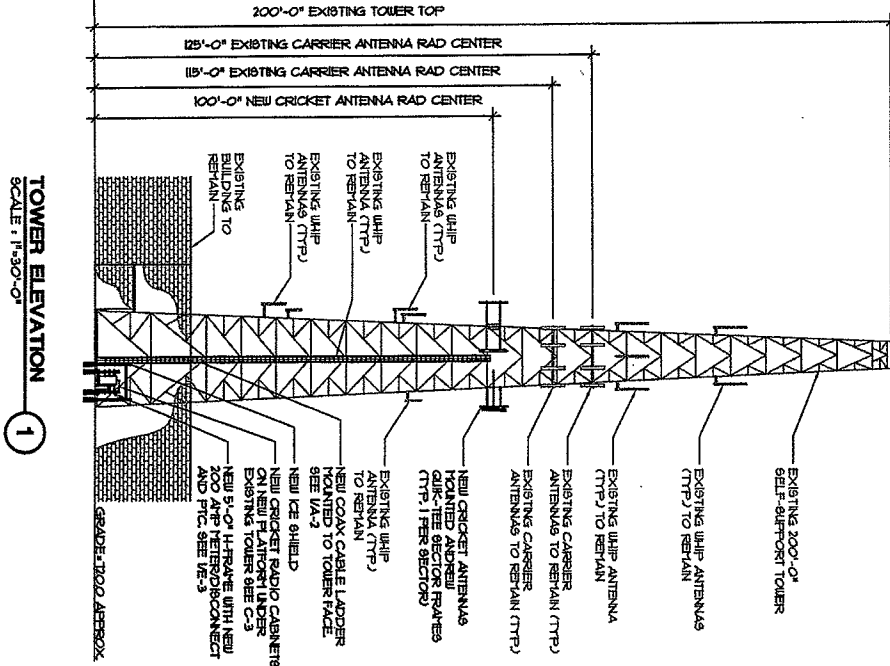
Village Clerk



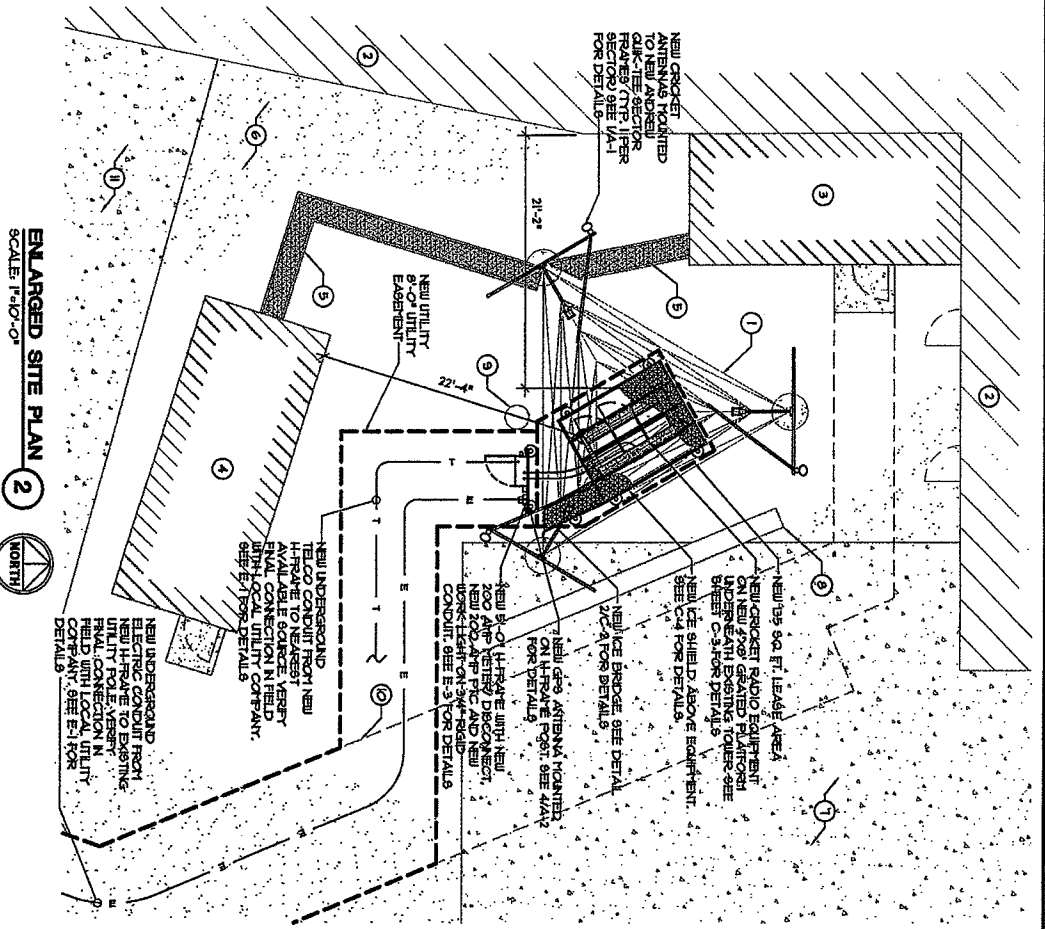
WITNE



NOTE TO GENERAL CONTRACTOR
 NO WORK IS TO BE PERFORMED ON THIS PROJECT UNLESS THE GENERAL CONTRACTOR HAS BEEN ADVISED BY THE ENGINEER. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY. THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING, AT NO LATER THAN 48 HOURS BEFORE THE WORK IS TO BE PERFORMED. THE GENERAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES BEFORE COMMENCING WORK.



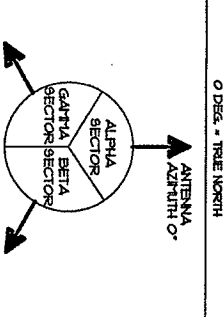
TOWER ELEVATION
 SCALE: 1" = 30'-0"



ENLARGED SITE PLAN
 SCALE: 1" = 10'-0"

- SITE NOTES**
1. EXISTING 200'-0" SELF-SUPPORT TOWER TO BE UTILIZED.
 2. EXISTING BUILDING TO REMAIN.
 3. EXISTING PERSONAL EQUIPMENT SHELTER TO REMAIN.
 4. EXISTING AIR-T EQUIPMENT SHELTER TO REMAIN.
 5. EXISTING ICE BRIDGE TO REMAIN (TYP).
 6. EXISTING ASPHALT AREA TO REMAIN.
 7. EXISTING CONCRETE AREA TO REMAIN.
 8. EXISTING GRASSY AREA TO REMAIN.
 9. EXISTING DRIVEWAY TO REMAIN.
 10. EXISTING UTILITY EXHAUSTION TO BE UTILIZED.
 11. EXISTING CONCRETE DOOR RAMP TO REMAIN.

NOTE:
 EXISTING EASEMENT AND LEGAL DOCUMENTATION AT THE OF DESIGN. IF EXISTING EASEMENTS ARE TO BE UTILIZED, LEGAL DOCUMENTATION MUST BE PROVIDED. NEW EASEMENTS CAN BE CREATED, BUT WILL REQUIRE LEGAL DISPOSITIONS AND DOCUMENTATION.



GENERAL NOTES

1. CONTRACTOR SHALL REPAIR AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION.
2. CONTRACTOR SHALL VERIFY ALL EXISTING EASEMENTS AND OVERHEAD UTILITIES PRIOR TO ALL DAMAGED UTILITIES. THE CONTRACTOR SHALL COORDINATE ANY REPAIRS WITH THE RESPECTIVE UTILITY COMPANY.
3. ALL SOIL REPAIRS SHALL BE PERFORMED TO ORIGINAL OR BETTER CONDITION. ALL REPAIRS SHALL BE VERIFIED BY THE ENGINEER.

fmcnc
 fmcnc COMMUNICATIONS
 8800 W. BRUNN WAY
 CHICAGO, IL 60631
 TELEPHONE: (773) 380-3500

WT
 W-T COMMUNICATIONS
 DESIGN GROUP, LLC
 2017 Franklin Avenue
 WHEELING, ILLINOIS 60090
 PHONE: (708) 399-4444
 FAX: (708) 399-4444
 WWW.WTDESIGN.COM

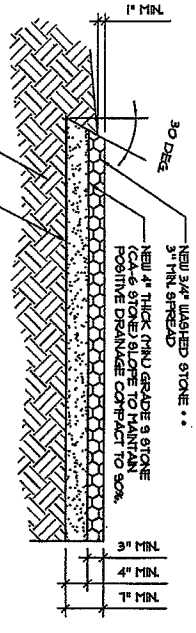
SCOTT & TRAPHAGEN
 REGISTERED PROFESSIONAL ENGINEERS
 891 341/483
 1100 N. LAUREL ST. SUITE 200
 CHICAGO, IL 60642

VILLAGE OF DOWNERS GROVE LATTICE 2
 ORD-314-4
 801 BURLINGTON AVE.
 DOWNERS GROVE, IL 60515
 DU PAGE COUNTY

cricket
 CRICKET COMMUNICATIONS
 801 W. BRUNN WAY
 CHICAGO, IL 60631
 OFFICE: (773) 380-3511
 FAX: (773) 380-3515

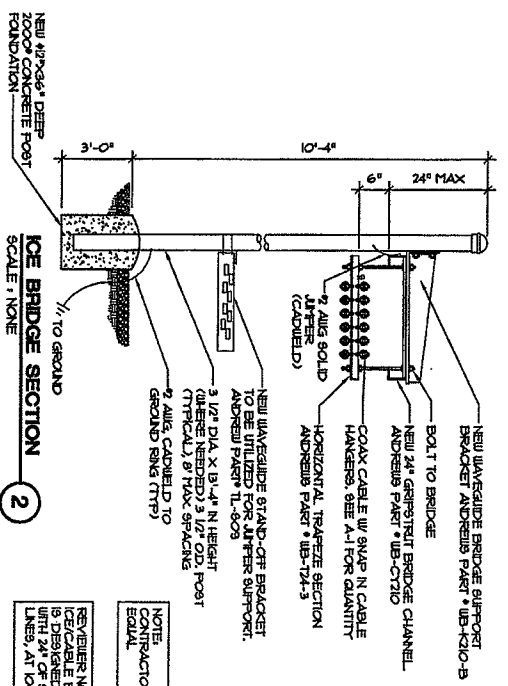
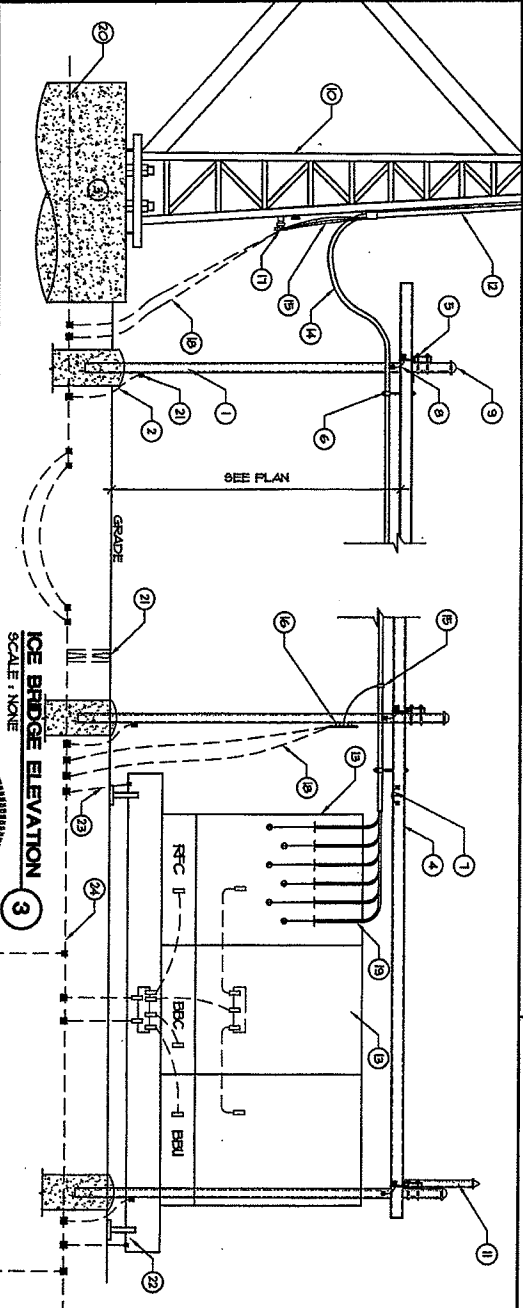
NO.	DATE	REVISIONS	DESIGNED BY	CHECKED BY
1	12/17/20	PER REVISIONS		
2	11/17/20	FOR CONSTRUCTION		
3	11/17/20	FOR CONSTRUCTION		
4	10/25/20	FOR CONSTRUCTION		
5	10/25/20	FOR CONSTRUCTION		
6	10/25/20	FOR CONSTRUCTION		
7	10/25/20	FOR CONSTRUCTION		
8	10/25/20	FOR CONSTRUCTION		
9	10/25/20	FOR CONSTRUCTION		
10	10/25/20	FOR CONSTRUCTION		

ENLARGED SITE PLAN AND TOWER ELEVATION
 DRAWING NUMBER: **C-1**
 PROJECT NUMBER: 1071127



NOTE:
WEED CONTROL FABRIC SHALL BE USED UNDER ALL AREAS OF THE YARD,
BUILDINGS UNDER THE PLATFORM, IN LEASE AREA ONLY.

YARD PAVEMENT
SCALE: 1"=8'



ICE BRIDGE SECTION
SCALE: 1"=8'

REVIEWER NOTE:
BRIDGE AND POST FOUNDATION
IS DESIGNED FOR 100 MPH WIND LOAD
WITH 24" OF SNOW LOAD AND 1.5x@ COAX
LINE, AT 100 MPH WIND LOAD

NOTE:
CONTRACTOR MAY USE QUERS APPROVED
EQUAL

KEY NOTES

1. NEW ICE BRIDGE PIPE SUPPORT FOUNDATION IS 12" STANDARD GALVANIZED STEEL POST WITH 42" X 36" DEEP 2000# CONCRETE FOUNDATION
2. 2" ALUM SOLID GROUND WIRE FROM ICE RINGS
3. EXISTING TOWER FOUNDATION
4. NEW 24" WIDE SAFETY GRATED/GRI-STEEL UNWEARABLE BRIDGE CHANNEL, FIELD ADJUST FITCH OR ANDREWS PART # UB-K10-B
5. NEW UNWEARABLE BRIDGE SUPPORT BRACKET ANDREWS PART # UB-K10-B
6. NEW COAX SWAY- NS AS REQUIRED, ANDREWS PART # 894-B6
7. 1/2" DIA X 18" HGT (WHERE NEEDED) 2" MIN HEIGHT (TYPICALLY @ MAX SPACING)
8. 2" ALUM. CABLED TO GROUND RING (TYP)
9. NEW 3/4" GRIPRIT BRIDGE CHANNEL ANDREWS PART # UB-C710
10. BOLT TO BRIDGE
11. COAX CABLE W/ SHAVE N CABLE HANGERS, SEE A-1 FOR QUANTITY
12. HORIZONTAL TRAFFIC SECTION ANDREWS PART # UB-T24-3
13. NEW UNWEARABLE BRIDGE STAND-OFF BRACKET ANDREWS PART # UB-C710
14. 2" ALUM SOLID (CABLED)
15. 2" ALUM. CABLED TO GROUND RING (TYP)
16. NEW UNWEARABLE BRIDGE AND POST FOUNDATION IS DESIGNED FOR 100 MPH WIND LOAD WITH 24" OF SNOW LOAD AND 1.5x@ COAX LINE, AT 100 MPH WIND LOAD
17. NEW CRICKET EQUIPMENT CABINETS, SEE C-3
18. DRIP LOOP (24" MIN)
19. COAX GROUNDING KIT (TYP) SUPER X KIT AT EVERY COAX END GREATER THAN 18" DIA.
20. NEW COLLECTOR GROUND BAR MOUNTED TO ICE BRIDGE POST, SEE GR-2
21. 2" ALUM SOLID GROUND LEADS FROM GROUND BAR AT TOWER
22. 2" ALUM SOLID GROUND LEADS FROM GROUND BAR TO EQUIPMENT GROUND RING, SEE GR-2
23. 2" ALUM SOLID GROUND LEADS FROM GROUND BAR TO EQUIPMENT GROUND RING, SEE GR-2
24. NEW 875 ALTFERS, PROVIDE SUPPORT AT 24" O.C. PER MANUFACTURER'S REQUIREMENTS
25. EXISTING TOWER GROUND RING, SEE GR-1
26. NEW GROUND TEST WELL, SEE ZGR-3
27. NEW EQUIPMENT LOAD FRAME, SEE C-3
28. NEW 2" ALUM SOLID TO GROUND RING CABLED TO OPPOSITE LEGS OF PLATFORM
29. NEW EQUIPMENT GROUND RING, SEE GR-1 AND 2

fmhc
Adding height to new heights
8800 W. BRYN MAWR AVENUE
CHICAGO, IL 60631
TELEPHONE: (773) 390-3900

W-T
W-T COMMUNICATIONS GROUP, LLC
2875 Franklin Avenue
Suite 1000
Chicago, IL 60641
Tel: (773) 390-3900 Fax: (773) 390-3944
11. Laramie Ave., Schaumburg, IL 60196

SCOTT R. TRAPANI
REGISTERED PROFESSIONAL ENGINEER
No. 001-00000000
Professional Seal No. 001-00000000
Professional Seal No. 001-00000000

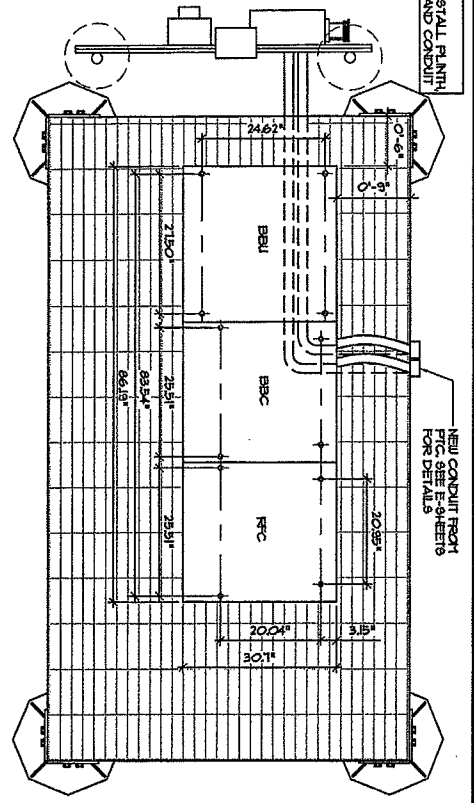
VILLAGE OF DOWNERS GROVE
LATTICE 2
ORD-314-A
801 BURLINGTON AVE.
DOWNERS GROVE, IL 60515
DU PAGE COUNTY

cricket
RETAIL SPECIALTY OPERATIONS, LLC
899 W. BRYN MAWR
SUITE 505
GROVE, IL 60501
OFFICE (708) 395-4311
FAX (708) 395-3013

NO.	DATE	REVISIONS	BY	CHKD BY
1	12/17/07	PER REVISIONS	JTC	REB
2	11/19/07	PER CONSTRUCTION	JTC	REB
3	11/19/07	PER COMMENTS	JTC	REB
4	11/22/07	PER REVISIONS	JTC	REB
5	11/22/07	PER REVISIONS	JTC	REB
6	11/22/07	PER REVISIONS	JTC	REB
7	11/22/07	PER REVISIONS	JTC	REB
8	11/22/07	PER REVISIONS	JTC	REB
9	11/22/07	PER REVISIONS	JTC	REB
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24	11/22/07	PER REVISIONS	JTC	REB

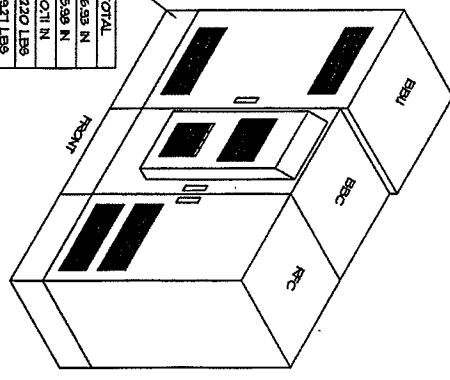
PROJECT NUMBER: 7071127
DRAWING TITLE: ICE BRIDGE DETAILS
DRAWING NUMBER: C-2

NOTE:
CONTRACTOR TO INSTALL PLUMBING, CABINETS, AND CONDUIT BASES, CABINETS, AND CONDUIT

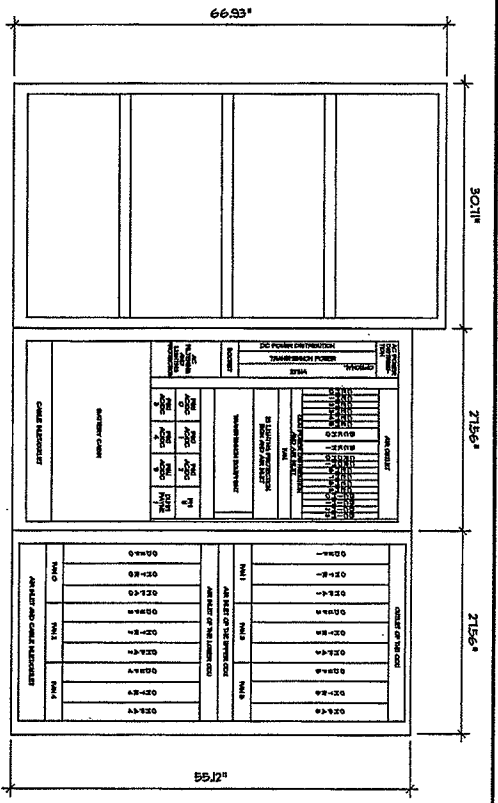


EQUIPMENT BOLT PATTERN (CABINET BASE) 1
SCALE: NONE

HEIGHT	RFC	BBC	BBU	TOTAL
9512 N	9512 N	6693 N	6693 N	6693 N
2156 N	2156 N	3011 N	6693 N	6693 N
DEPTH	2156 N	2156 N	3011 N	3011 N
PLUMBING HEIGHT	60181 LBS	54023 LBS	2400 LBS	354210 LBS
BBU HEIGHT	78541 LBS	46325 LBS	39075 LBS	109921 LBS
VOLTAJE	110V/220V AC	110V/220V AC	90V/180V AC	
PLUMBING POWER	4090 W	4090 W		



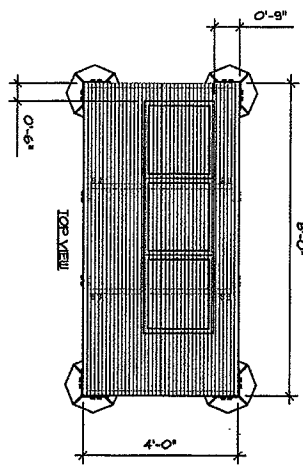
EQUIPMENT LAYOUT (ISOMETRIC) 3
SCALE: NONE



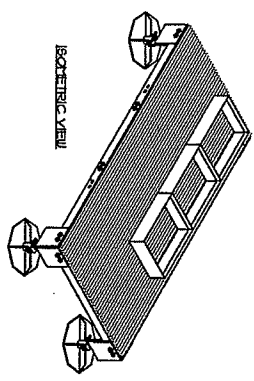
CABINET CONFIGURATION 2
SCALE: NONE

SEE EQUIPMENT MANUFACTURER DOCUMENTATION FOR ADDITIONAL INFORMATION

PRE-FABRICATED FRAME IS RATED AT 200 PPF AND IS DESIGNED BY OTHERS



EQUIPMENT LOAD FRAME DETAIL 4
SCALE: NONE



SEE EQUIPMENT MANUFACTURER DOCUMENTATION FOR ADDITIONAL INFORMATION

NOTE:
CONCRETE PAVERS TO BE INSTALLED AND FINISHED BY GENERAL CONTRACTOR

NOTE:
CONTRACTOR TO INSTALL PLUMBING, CABINETS, AND CONDUIT

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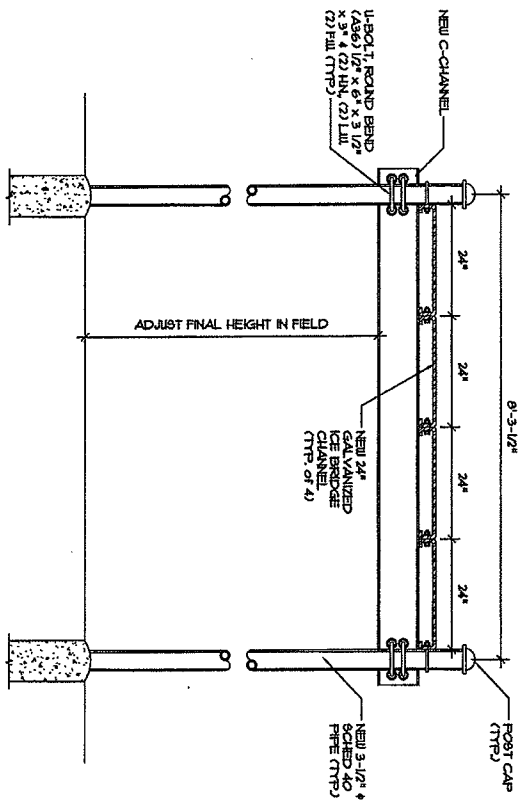
SCOTT R. THOMPSON
REGISTERED PROFESSIONAL ENGINEER
No. 001-00000000
STATE OF ILLINOIS
EXPIRES 12/31/2015

VILLAGE OF DOWNERS GROVE LATTICE 2
ORD-314-A
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cricket
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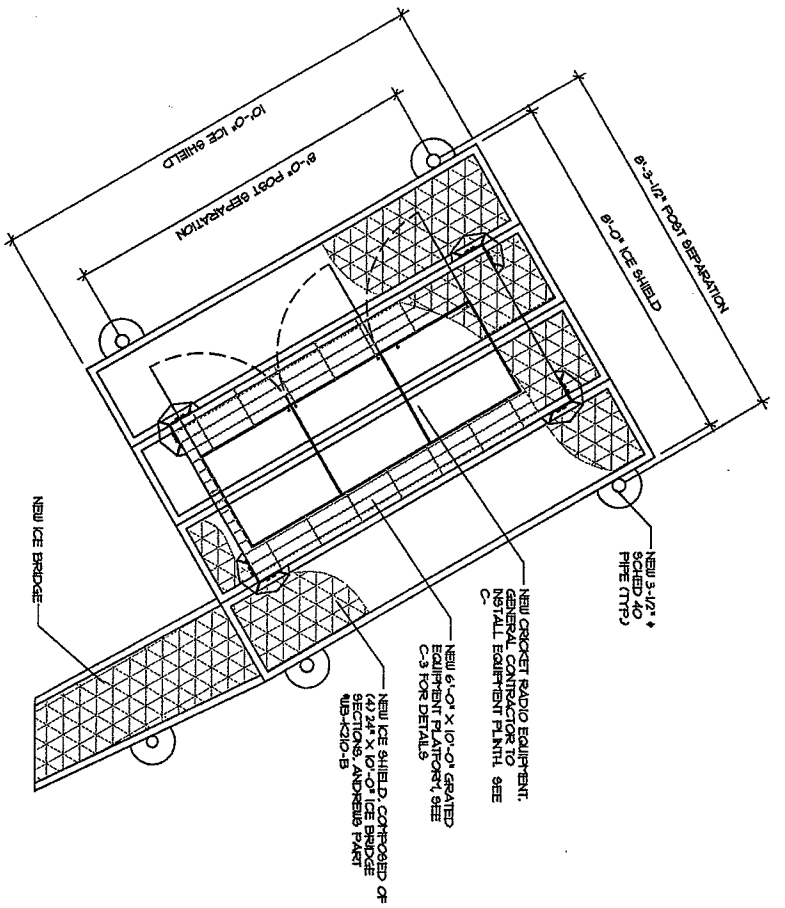
DATE	DESCRIPTION	BY	CHECKED BY
1/24/17/07	PER REVISIONS	JFC	BBU
01/19/07/07	PER CONSTRUCTION	JFC	BBU
01/17/07/07	PER DESIGN COMMENTS	JFC	BBU
01/16/07/07	PER DESIGN COMMENTS	JFC	BBU
01/15/07/07	PER DESIGN COMMENTS	JFC	BBU
01/14/07/07	PER DESIGN COMMENTS	JFC	BBU
01/13/07/07	PER DESIGN COMMENTS	JFC	BBU
01/12/07/07	PER DESIGN COMMENTS	JFC	BBU
01/11/07/07	PER DESIGN COMMENTS	JFC	BBU
01/10/07/07	PER DESIGN COMMENTS	JFC	BBU
01/09/07/07	PER DESIGN COMMENTS	JFC	BBU
01/08/07/07	PER DESIGN COMMENTS	JFC	BBU
01/07/07/07	PER DESIGN COMMENTS	JFC	BBU
01/06/07/07	PER DESIGN COMMENTS	JFC	BBU
01/05/07/07	PER DESIGN COMMENTS	JFC	BBU
01/04/07/07	PER DESIGN COMMENTS	JFC	BBU
01/03/07/07	PER DESIGN COMMENTS	JFC	BBU
01/02/07/07	PER DESIGN COMMENTS	JFC	BBU
01/01/07/07	PER DESIGN COMMENTS	JFC	BBU

Product Number: 1071127
Drawing Title: EQUIPMENT LAYOUT
Drawing Number: C-3



- NOTES:
1. POSTS ARE INSTALLED ON BOTH SIDES OF BRIDGE.
 2. FIELD TRIM VERTICAL PIPES IF NECESSARY.
 3. GALVANIZE ANY EXPOSED METAL.
 4. FLAT WASHERS SHALL BE PLACED OVER ALL SLOTTED HOLES.

TYPICAL CHANNEL CONNECTION
SCALE: NONE



ICE SHIELD FRAMING PLAN
SCALE: 3/8"=1'-0"

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REGISTERED PROFESSIONAL ENGINEER
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 LICENSE NO. 001234567
 EXPIRES 12/31/2010

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 CRICKET TELECOMMUNICATIONS, LLC
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 FAX: (773) 380-3603

NO.	DATE	DESCRIPTION	ISSUED BY	DATE
1	10/27/07	REV. RESPONSE	W-T	10/27/07
2	11/09/07	REV. CONSTRUCTION	W-T	11/09/07
3	11/09/07	REV. GENERAL COMMENTS	W-T	11/09/07
4	10/26/07	REV. RESPONSE	W-T	10/26/07

PROJECT NUMBER: 1071127
 DRAWING TITLE: ICE SHIELD DETAILS
 DRAWING NUMBER: C-4

- ANTENNA NOTES**
1. CONTRACTOR SHALL PROVIDE CRACKET 4 BATTERY REQUIREMENT FOR AMOUNT OF COAX CABLE LENGTH AS DETERMINED FROM DRAWINGS AND BID TAKE APPROVAL.
 2. ANTENNAS SHALL BE INSTALLED IN ACCORDANCE WITH CRACKET STANDARDS.
 3. ANTENNAS SHALL BE PLACED AND AT AZIMUTH INDICATED IN ANTENNA SCHEDULE.
 4. CONTRACTOR TO PROVIDE ANTENNA SERIAL NUMBERS ON FIELD LINE DRAWINGS.
 5. AZIMUTHS ARE ORIENTED CLOCKWISE FROM TRUE NORTH.
 6. CONTRACTOR TO CONSENT ANTENNA DOWN TILT AZIMUTH WITH CRACKET ENGINEER PRIOR TO CONSTRUCTION.
 7. SECTORS SHALL BE DEREGULATED IN A CLOCKWISE MANNER. SECTOR ALPHA TO ZERO DEGREE (NORTH), SECTOR BETA 90 DEGREE FOLLOW CLOCKWISE DIRECTION.

COAXIAL CABLE

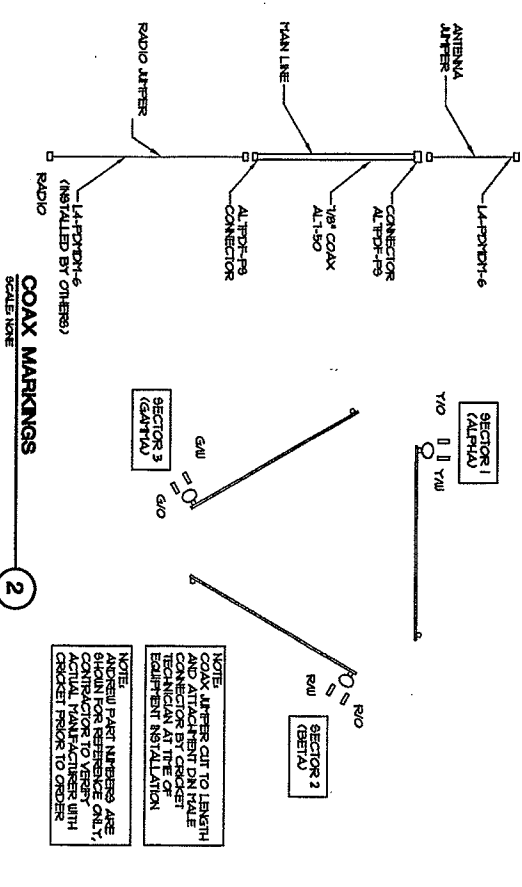
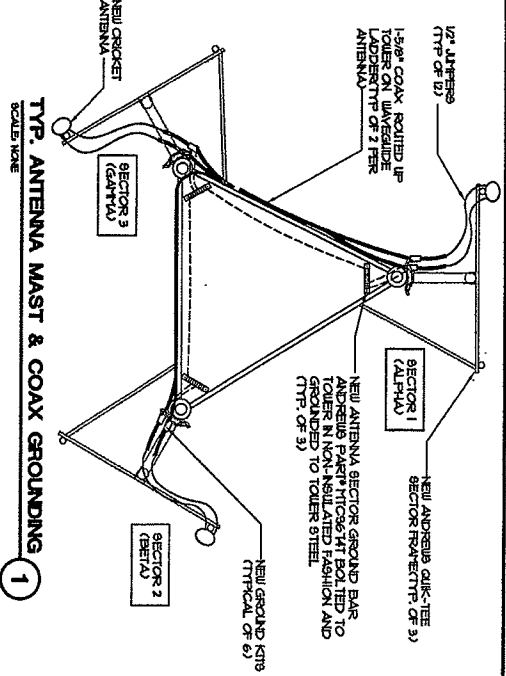
1. CONTRACTOR SHALL NOT EXCEED CABLE LENGTHS AS INDICATED IN SCHEDULE WITHOUT RE APPROVAL.
2. CONTRACTOR TO AS-BUILT CABLE LENGTHS ON SITE, NO PRE-FABRICATION OF CABLE LENGTHS PERMITTED UNLESS FACTORY ORDERED TO LENGTH.
3. CONTRACTOR TO MAINTAIN ANTENNA HANGING BRACE STANDARDS.
4. AVOID EXCESSIVE DRIP LOOPS.

NOTE: ACTUATOR TO BE PROVIDED BY CRACKET PROJECT MANAGER.

5. COAXIAL CABLE TO BE SUPPORTED AT ICE BRIDGE AND SUPPORT STRUCTURE USING STAINLESS STEEL HANGERS A MINIMUM OF 36" SPACING BETWEEN HANGERS. PROVIDE ENTRIES TO SUPPORT HANGERS APPROXIMATELY 45 DEGREE. HANGERS TO BE BRASS/STAINLESS AND NOT PERMITTED.
 6. CONDUIT/NAME TERMINATION OF COAX WITH CRACKET CONSTRUCTION MANAGER.
 7. COAXIAL CABLE TO BE LABELED USING SCOTCH VINTL 35 (OR EQUAL) AT TOP & BOTTOM OF MAIN LINE, BOTH ENDS OF TOP JUNCTIONS ACCORDING TO COLOR CODED INDICATED ON SCHEDULE.
 8. CONNECTORS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 9. ALL CONNECTORS AND GROUND KITS ARE TO BE WEATHERPROOFED WITH MAGIC 4 UV RESISTANT ELECTRICAL TAPE.
 10. GROUND KITS TO BE ANDREW 94L-1-894-1 SERIES AND PROVIDED AT THREE LOCATIONS PER ANTENNA. GROUND KIT TO BE INSTALLED AT GROUND BAR BOTTOM AT GROUND BAR KITS TO BE INSTALLED PARALLEL TO COAXIAL CABLE PATH.
- ELECTRICAL DOWN TILT**
1. CONTROL CABLE CONNECTED TO AIRCRAFT CABLE WITH RESERBERGER CABLE STRAP KIT 36" OZ.
 2. RESERBERGER CABLE SHOULD BE LOCKED AND CLAMPED AT TOP OF SUPPORT STRUCTURE (ON HOISTING GRIP HOOK) FOR STRESS RELIEF.

NTAL BLDG 3 EQUIPMENT CABINETS, 3 ANTENNAS, 6 COAX RAYS

ANTENNA AND COAXIAL CABLE SCHEDULE		SECTOR 1 (ALPHA)	SECTOR 2 (BETA)	SECTOR 3 (GAMMA)
ITEM DESCRIPTION	TXI	RxD	TXI	RxD
AZIMUTH	0°	90°	180°	270°
COLOR CODE	YELLOW/BLACK	YELLOW/WHITE	RED/BLACK	RED/WHITE
ANTENNA MODEL NUMBER	K1U-1B-X-D-18-65-00T	K1U-1B-X-D-18-65-00T	K1U-1B-X-D-18-65-00T	K1U-1B-X-D-18-65-00T
ANTENNA SIZE (D X H)	6.3 X 12 N	6.3 X 12 N	6.3 X 12 N	6.3 X 12 N
ANTENNA RAD CENTER	100'-0"	100'-0"	100'-0"	100'-0"
MECHANICAL DOWN-TILT (Deg)	0	0	0	0
ELECTRICAL DOWN-TILT (Deg)	2	2	2	2
ANTENNA JITTER (ANDREW) (LENGTH)	LAA-FD1D1-6 (6 FOOT)	LAA-FD1D1-6 (6 FOOT)	LAA-FD1D1-6 (6 FOOT)	LAA-FD1D1-6 (6 FOOT)
CABINET JITTER (ANDREW) (LENGTH)	LAA-FD1D1-6 (6 FOOT)	LAA-FD1D1-6 (6 FOOT)	LAA-FD1D1-6 (6 FOOT)	LAA-FD1D1-6 (6 FOOT)
TOP FEMALE DN CONNECTOR (ANDREW)	ALTD1-F9 (6 FOOT)	ALTD1-F9 (6 FOOT)	ALTD1-F9 (6 FOOT)	ALTD1-F9 (6 FOOT)
BOTTOM FEMALE DN CONNECTOR (ANDREW)	ALTD1-F9 (6 FOOT)	ALTD1-F9 (6 FOOT)	ALTD1-F9 (6 FOOT)	ALTD1-F9 (6 FOOT)
MAIN COAX (ANDREW) (LENGTH)	1/8" (25') AL1-50	1/8" (25') AL1-50	1/8" (25') AL1-50	1/8" (25') AL1-50
GPS ANTENNA	HAIJAEI			



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 Fax: (954) 333-4444
 IL License No. 04801188 Exp. 04/2009

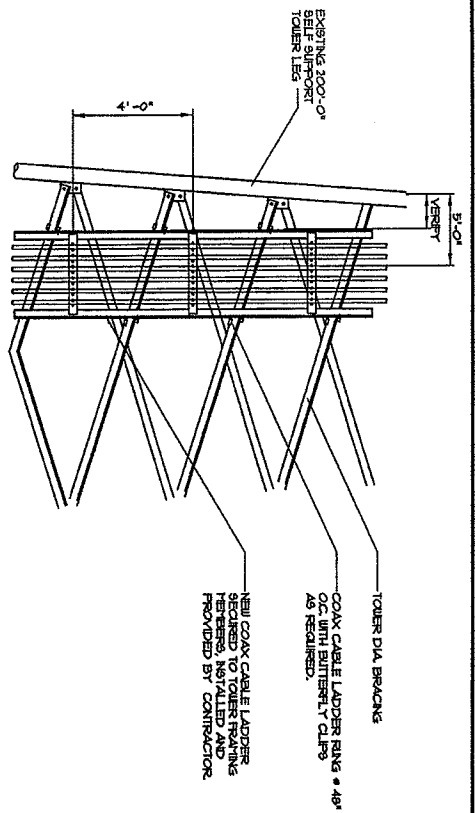
SCOTT R. TRIMPAH
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 001-00000000
 LICENSE EXPIRES 12/31/2018
 LICENSED BY THE STATE OF ILLINOIS

VILLAGE OF DOWNERS GROVE
 LATTICE 2
 ORD-314-A
 801 BURLINGTON AVE.
 DOWNERS GROVE, IL 60515
 DU PAGE COUNTY

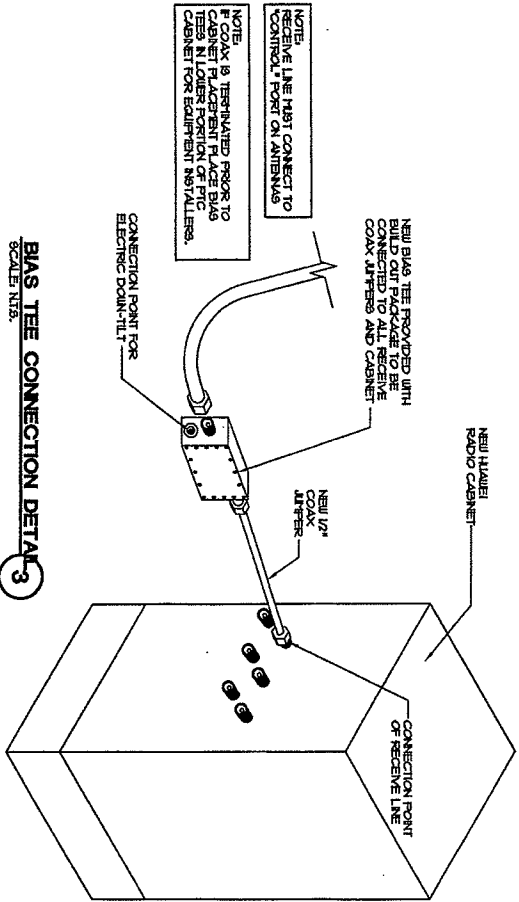
cricket
 COMMUNICATIONS OPERATIONS LLC
 809 E. BRUN MAWR
 SUITE 515
 GARDEN, IL 60631
 OFFICE: (847) 316-4311
 FAX: (773) 300-3015

DATE	PER REVISIONS	JTC	REV	NO.
12/17/07	PER REVISIONS	JTC	REV	NO.
11/09/07	PER CONSTRUCTION	JTC	REV	NO.
11/09/07	PER CENTER COMMENTS	JTC	REV	NO.
11/09/07	SEE REVISED	JTC	REV	NO.
11/09/07	REVISIONS	JTC	REV	NO.

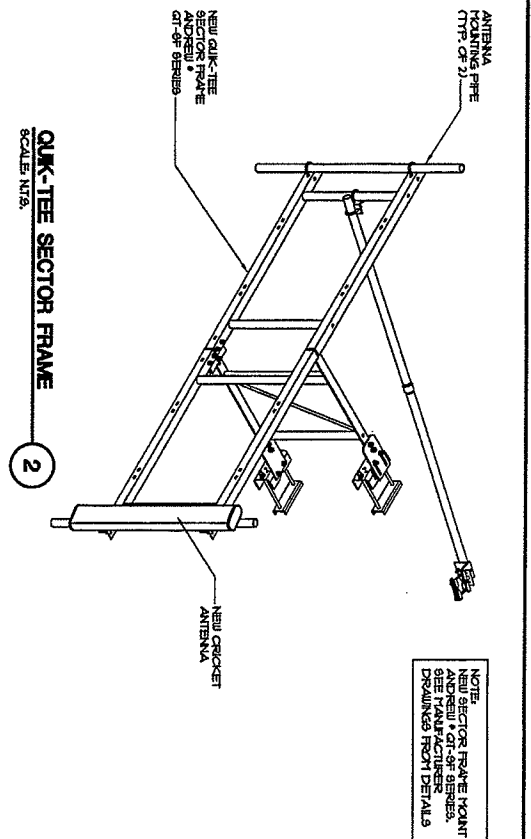
PROJECT NUMBER: 1071127
 DRAWING TITLE: ANTENNA SCHEDULE AND DETAILS
 DRAWING NUMBER: A-1



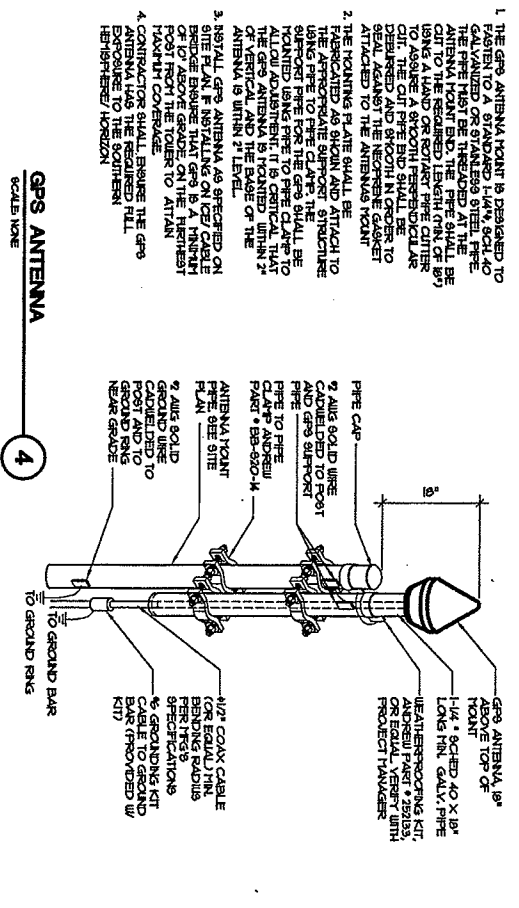
COAX LADDER DETAIL
SCALE: N1/2.



BIAS TEE CONNECTION DETAIL 3
SCALE: N1/2.



QLK-TEE SECTOR FRAME
SCALE: N1/2.



GPS ANTENNA
SCALE: N1/2.

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www.wirelessdesign.com
LL License No. 1000190101010101010101010101010101

SCOTT R TRIPATHI
REGISTERED PROFESSIONAL ENGINEER
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Professional Engineer
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Professional Engineer
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NO.	DATE	REVISIONS	BY	CHK
1	12/17/07	PER REVISIONS	JFC	NSB/KAL
2	11/19/07	FOR CONSTRUCTION	JFC	NSB/KAL
3	11/19/07	PER CLIENT COMMENTS	JFC	NSB/KAL
4	10/29/07	PER REVISIONS	JFC	NSB/KAL

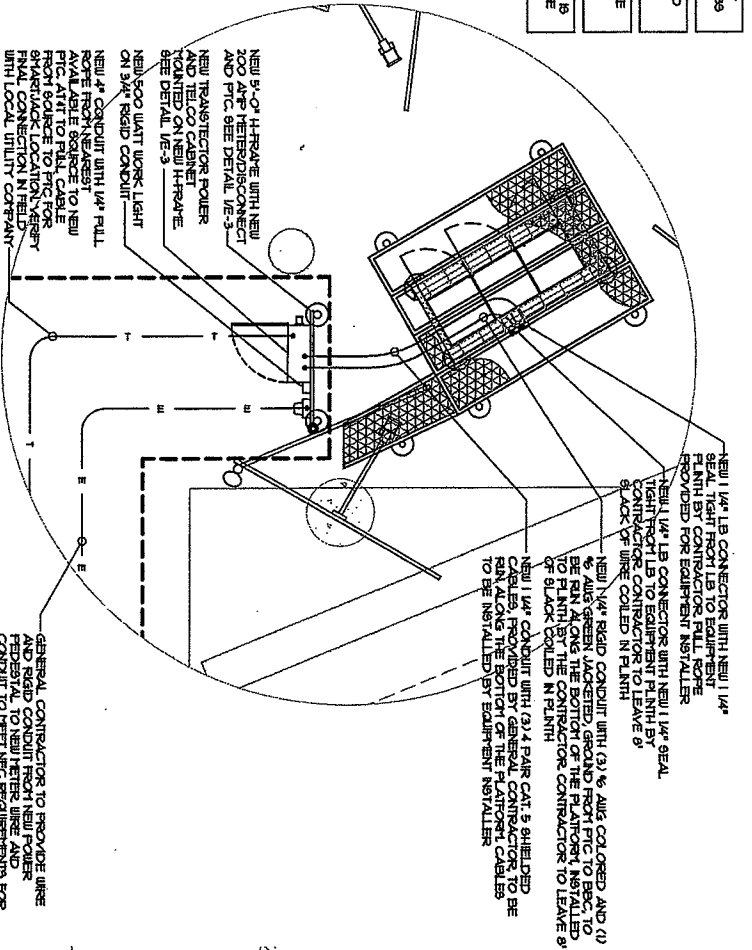
PROJECT NUMBER: 1071127
SCHEDULE TITLE: ANTENNA DETAILS
DRAWN BY: A-2

RIEDED OR INTERMEDIATE METAL CONDUIT SHALL BE USED IN ALL CONCRETE SLABS ABOVE GRADE.

RIEDED OR INTERMEDIATE METAL OR RIGID NON-METALLIC CONDUIT SHALL BE USED UNDERGROUND.

RIGID RIEDED NON-METALLIC INTERMEDIATE OR ALUMINUM CONDUIT SHALL BE USED WHEREVER EXPOSED TO WEATHER.

NO ELECTRICAL METALLIC TUBING (EMT) IS PERMITTED OUTSIDE ONLY INSIDE OF THE STRUCTURE.



ENLARGED ELECTRIC/TELECO PLAN (A)
SCALE 3/8\"/>

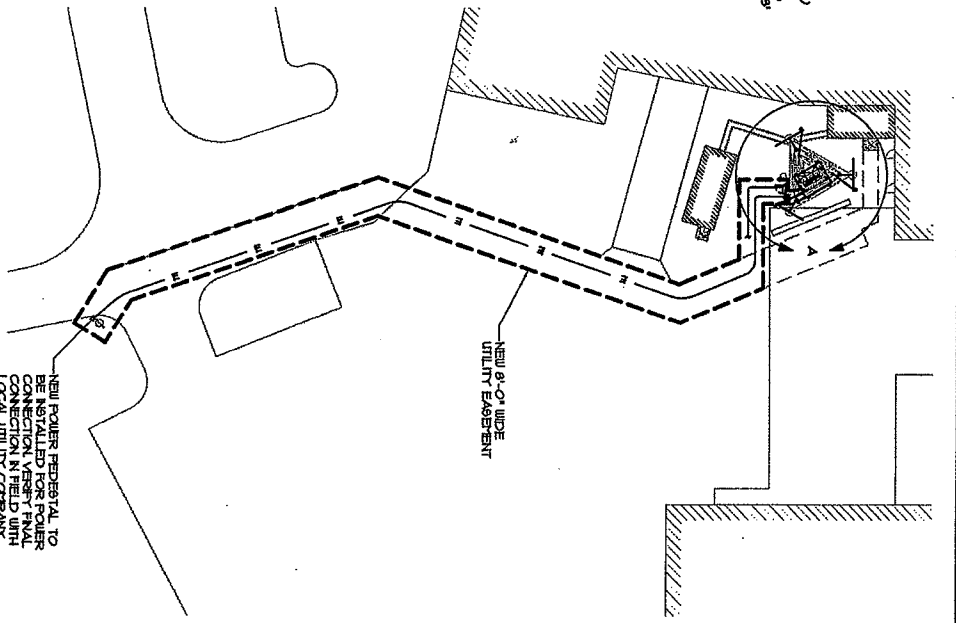
NOTE:
ALL DIGGING WITHIN FENCED COURTYARD IS TO BE HAND DUG.

NOTE:
ALL RISERS TO BE HEAVY WALL CONDUIT ABOVE GROUND.

NOTE:
EXISTING GRAVEL COURTYARD TO BE RESTORED TO ORIGINAL OR BETTER CONDITION AFTER FINAL CONSTRUCTION.

NOTE:
CONTRACTOR SHALL VERIFY ALL EXISTING BURIED AND OVERHEAD UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL DAMAGED UTILITIES AT HIS OWN COST AND COORDINATE ANY REPAIRS WITH RESPECTIVE UTILITY COMPANY.

NOTE:
EXISTING EASEMENT AND LEGAL DOCUMENTATION IS NOT PROVIDED AT THE TIME OF DESIGN. IF EXISTING EASEMENTS ARE TO BE UTILIZED, LEGAL DOCUMENTATION MUST BE OBTAINED AND MUST REQUIRE LEGAL DESCRIPTIONS AND DOCUMENTATIONS.



OVERALL ELECTRIC/TELECO PLAN (1)
SCALE 1\"/>

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E: info@wtcomm.com www.wtcomm.com

Professional Engineer
REG. NO. 021-0000000
STATE OF ILLINOIS
DATE: 01/15/2007
EXPIRES: 01/15/2010

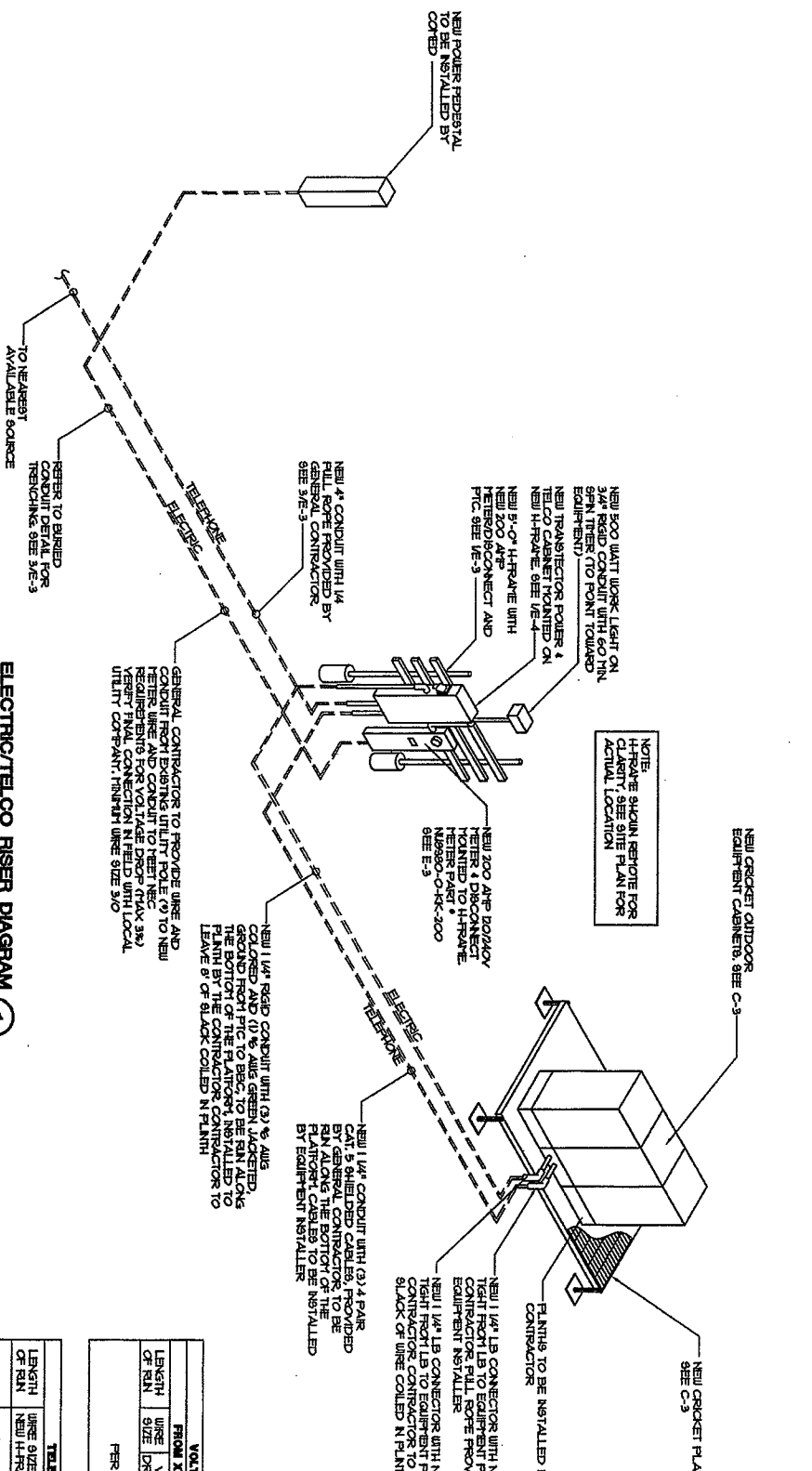
VILLAGE OF
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DESIGN & CONSTRUCTION OPERATIONS, LLC
8818 W. BIRN LAWR
SUITE 600
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NO.	DATE	REVISIONS	BY	CHK	APP'D
1	12/17/07	PER REVISIONS	BT	MS	
2	11/29/07	PER CONSTRUCTION	BT	MS	
3	11/27/07	PER COMMENTS	BT	MS	
4	10/26/07	SEE DRAWING	BT	MS	
5		REVISIONS	BT	MS	

PROJECT NUMBER: T071127
DRAWING TITLE: ELECTRIC AND TELECO PLAN
DRAWING NUMBER: E-1

NOTE:
CONTRACTOR SHALL VERIFY ALL EXISTING
BRIBED AND OVERHEAD UTILITIES PRIOR TO
EXCAVATION. CONTRACTOR SHALL REPAIR
AND COMPENSATE ANY REPAIRS AND COST
RESPECTIVE UTILITY COMPANY.



NOTE:
H-FRAME SHALL BE TO BE
CLARIFY SEE SITE PLAN FOR
ACTUAL LOCATION

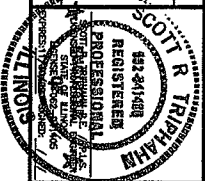
ELECTRIC/TELECO RISER DIAGRAM (1)
SCALE: NONE

VOLTAGE DROP	
FROM XX TO H-FRAME	
LENGTH OF RISE	PERCENTAGE OF VOLTAGE
WIRE SIZE (DROP) (VOLTS)	
PER NEC CODE	

TELEPHONE LENGTH	
FROM XX TO H-FRAME	
LENGTH OF RISE	PERCENTAGE OF VOLTAGE
WIRE SIZE (DROP) (VOLTS)	
PER NEC CODE	

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Downers Grove, IL 60528
PH: (630) 252-2237 FAX: (630) 252-3444
IL License No. 145401108 Reg. 04/06/09
CORPORATE & 2007 W-T COMMUNICATIONS (DOWNERS GROVE), ILL.

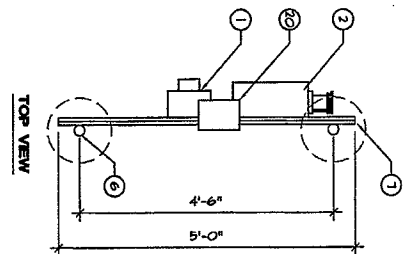


VILLAGE OF
DOWNERS GROVE
LATTICE 2
ORD-314-A
801 BURLINGTON AVE.
DOWNERS GROVE, IL 60515
DU PAGE COUNTY

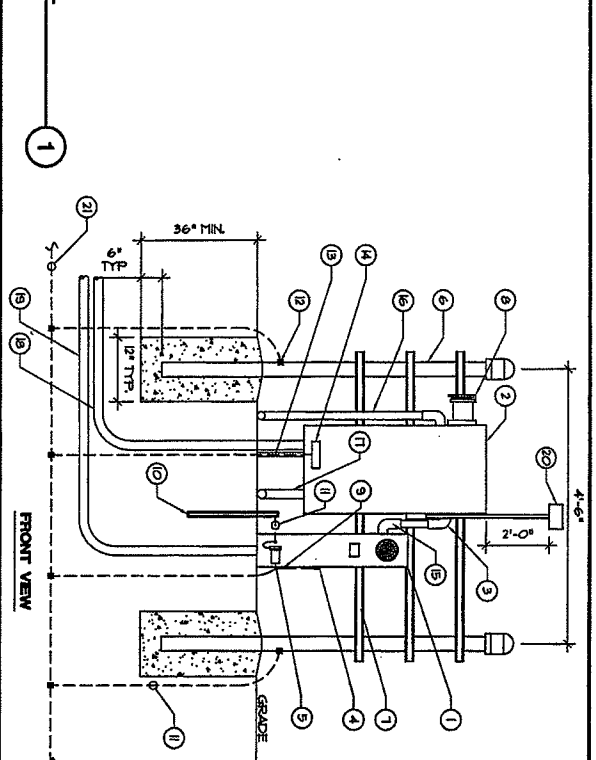
cricket
SMALL BUSINESS OPERATING ILL.
853 W. BRUN MAHR
DOWNERS GROVE, IL 60515
OFFICE: (630) 252-8211
FAX: (630) 252-8215

NO.	DATE	REVISIONS	BY	CHK
1	12/17/07	ISS. REVISIONS		
2	11/09/07	FOR CONSTRUCTION		
3	11/09/07	FOR GROUND CONDITIONS		
4	10/25/07	FOR SITE REVIEW		
5		REVISIONS		

PROJECT NUMBER: 1071127
DRAWING TITLE: ELECTRIC & TELCO RISER DIAGRAM
DESIGNED BY: E-2



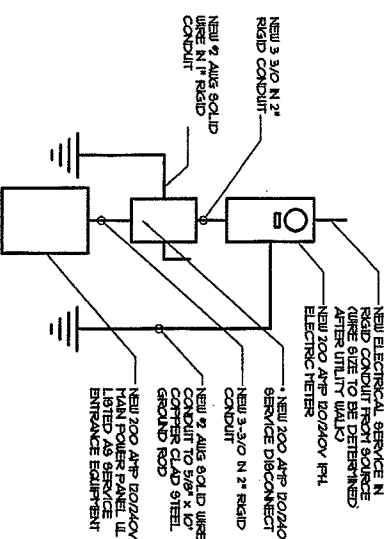
H-FRAME DETAIL
SCALE: NONE



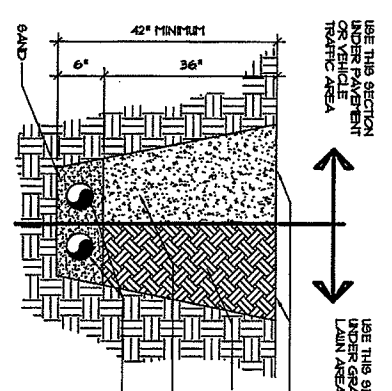
KEY NOTES

1. NEW 200 AMP METER PART • NUBRO-O-18-200 WITH 200 AMP BREAKER PART • DCF74300
2. NEW TRANSFORMER POLE AND TELCO CABINET
3. LB MECHANICAL CONNECTION TO CHASSIS
4. BUSH BAR
5. NEW 3 1/2\" x 1/2\" X 1/8\" SCHED. 40 GALVANIZED PIPE WITH CAP
6. (3) 1 1/2\" x 1 1/2\" x 1/8\" GALVANIZED STEEL STRUT (3-LINE #22) FASTEN TO WASHERS AND NUTS AT EACH POB (TTF)
7. NEW 1/4\" RIGID CONDUIT WITH (3) 1/2\" AWG CLOTHED AND (2) 1/2\" AWG GREEN THEN 2\" OF SEAL TAPE AND 6\" OF WIRE BEYOND CONNECT TO BACK OF BUS FLNTH BY CONTRACTOR
8. GENERATOR PULS
9. NEW 1/4\" CONDUIT WITH GROUND BUSHINGS
10. NEW 5/8\" x 1/2\" COFFER GROUND ROD 3\" ABOVE GRADE PER NEC REQUIREMENT
11. 1/4\" AWG SOLID TINNED TO NEUTRAL BAR
12. CAPBULE TO POB (TTF)
13. 1/2\" AWG SOLID TO BE CONNECTED TO TELCO GROUND BAR INSIDE NEW PFC
14. NEW GROUND BAR PROVIDED WITH NEW PFC
15. NEW LR CONNECTION
16. NEW 1/4\" RIGID CONDUIT WITH (2) 1/2\" AWG CLOTHED AND (2) 1/2\" AWG GREEN THEN 2\" OF SEAL TAPE AND 6\" OF WIRE BEYOND CONNECT TO BACK OF BUS FLNTH BY CONTRACTOR
17. NEW 1/4\" CONDUIT WITH (3) 1/2\" AWG CLOTHED AND (2) 1/2\" AWG GREEN THEN 2\" OF SEAL TAPE AND 6\" OF WIRE BEYOND CONNECT TO BACK OF BUS FLNTH BY CONTRACTOR
18. NEW TELCO FEED FROM SOURCE TO PFC
19. NEW 300 WATT WORK LIGHT ON 3/4\" RIGID CONDUIT WITH 40 MIN. 9FN THER TO POINT TOWARD EQUIPMENT
20. NEW 300 WATT WORK LIGHT ON 3/4\" RIGID CONDUIT WITH 40 MIN. 9FN THER TO POINT TOWARD EQUIPMENT
21. NEW EQUIPMENT GROUND RING. SEE DR-1 AND 2

NOTE: POSITIONS TO BE WIRED INTO THE NEUTRAL BAR



ELECTRIC DIAGRAM
SCALE: NONE



BURIED CONDUIT DETAIL
SCALE: NONE

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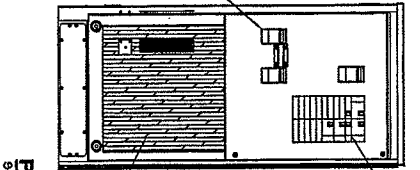
VILLAGE OF DOWNERS GROVE LATTICE 2
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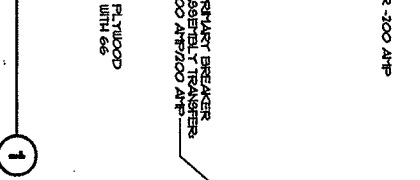
NO.	DATE	ISSUED BY	ISSUED BY	REVISION	REVISION
1	12/17/02	SPY REVISIONS	JTC REB	REB	
2	11/09/02	PFC CONSTRUCTION	JTC REB	REB	
3	11/09/02	PER DESIGN COMMENTS	JTC REB	REB	
4	10/25/02	REV. DESIGN	JTC REB	REB	
5		REVISIONS	BT	CON PFC	

PROJECT NUMBER: 1071127
DRAWING TITLE: ELECTRIC AND TELCO DETAILS
DRAWING NUMBER: E-3

NOTE: FRONT DOORS ARE REMOVED FOR CLARITY



PTC CABINET
SCALE: NONE



NOTES

- CONTRACTOR SHALL COORDINATE METER SOCKET LOCATION AND TYPE WITH POWER COMPANY
- CONTRACTOR SHALL INSTALL CONDUIT AND WIRE FROM PTC TO POWER CABINET, COIL WIRE, SEAL CONDUIT WIRE ENDS FROM HOUSING INFILTRATION LEAVE WIRE TO TERMINATE AT POWER CABINET PANEL, (MINIMUM OF 10 FEET)
- NEW GROUND WIRE SHALL BE BONDED TO PTC AND TO SITE GROUNDING SYSTEM
- ANY 80 VOLT OUTLET LOCATED ON THE PTC SHALL HAVE GFCI PROTECTION PER NEC SECTION 210.8
- CONTRACTOR MAY MODIFY Knockout HOLES IN EQUIPMENT CABINETS TO ACCOMMODATE THE REQUIRED CONDUIT SIZES
- SERVICE POWER SHALL BE (120/208VAC, 3Ø, 4 W, 1 Ø, SINGLE PHASE)
- 200 AMP METER BASE SHALL BE INSTALLED WHERE IT IS ACCESSIBLE FOR READOUT, THE NUMBER OF LINES IN THE METER SOCKET AND THEIR ARRANGEMENT DEPENDS ON THE VOLTAGE SERVICE CONTRACTOR TO COORDINATE WITH POWER COMPANY
- CABLE SIZES SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP IF LONGER THAN 180FT. VERIFY CONDUIT SIZE WHEN CHANGING CABLE SIZE
- FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO VENDOR PRINTS PROVIDED BY PTC MANUFACTURER
- POST NAME ON METER SOCKET EQUIPMENT
- ALL WIRE SHALL BE TYPE THHN UNLESS OTHERWISE SPECIFIED
- CONTRACTOR TO PROVIDE UNDERGROUND CONDUIT WITH FULL WIRE BETWEEN TELEPHONE COMPANY DEMARCATION POINT AND PTC ON H-FRAME. CONTRACTOR SHALL PROVIDE HANG FROM FEDERAL TO PTC WITH PENETRATION FITTING
- CONTRACTOR TO PROVIDE UNDERGROUND CONDUIT WITH WIRE BETWEEN ELECTRICAL UTILITY COMPANY DEMARCATION POINT AND RHH METER BASE ON H-FRAME. CONTRACTOR SHALL PROVIDE HANG FROM POWER CABINET TO EQUIPMENT

INSTALL NEW TRANSIENT VOLTAGE SURGE SUPPRESSOR UNIT BELOW SERVICE PANEL TO BE INSTALLED BY ENGINEER FOR APPROVAL

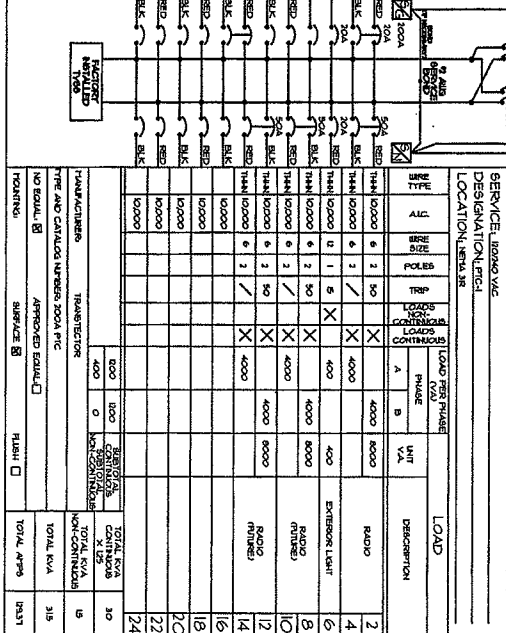
- NOTES:**
- ALL WIRE TO BE #2 OR GREATER THAN WITHIN UNLESS NOTED OTHERWISE
 - ALL WORK TO CONFORM TO NEC, LATEST EDITION
 - LABEL SERVICE DISCONNECT WITH A RED TAG

POWER PANEL
SCALE: NONE

2

PANEL CIRCUIT AND LOAD SCHEDULE

LOAD DESCRIPTION	LOAD FOR PHASE		SERVICES	WIRE	CONDUIT	TERMINALS	MATERIALS	TOTAL KVA
	A	B						
1. SHED PROTECTION	0	0	X	10	2	10000	THAN	0.00
2. 400 AMP SERVICE	400	400	X	2	1	10000	THAN	0.00
3. 200 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
4. 100 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
5. 50 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
6. 25 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
7. 15 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
8. 10 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
9. 5 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
10. 3 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
11. 2 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
12. 1 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
13. 0.5 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
14. 0.25 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
15. 0.125 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
16. 0.0625 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
17. 0.03125 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
18. 0.015625 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
19. 0.0078125 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
20. 0.00390625 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
21. 0.001953125 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
22. 0.0009765625 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
23. 0.00048828125 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00
24. 0.000244140625 AMP SERVICE	0	0	X	2	1	10000	THAN	0.00



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PROJECT NUMBER
 1071127
ISSUE DATE
 10/7/12
PROJECT NAME
 PTC DETAILS
SCALE
 AS SHOWN

NO.	DATE	DESCRIPTION	BY	CHK
1	10/27/07	99% RESPONSE	JES	RES
2	11/06/07	10% CONSTRUCTION	JES	RES
3	11/07/07	PER CLIENT COMMENTS	JES	RES
4	10/25/07	REV. REVIEW	JES	RES
5	10/25/07	RESPONSE	BT	CHK

PROJECT NUMBER
 1071127
ISSUE DATE
 10/7/12
PROJECT NAME
 PTC DETAILS
SCALE
 AS SHOWN

GROUNDING NOTES

- GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE COMPAILED TO FENCE POSTS, MONOPOLE TOWER AND THE GROUND RODS. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSED FITTINGS.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH ANDREWS ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE EXCEPT AS OTHERWISE INDICATED. ALWAYS LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE AT 90 DEGREES WHEN NECESSARY.
- CONTRACTOR TO PROVIDE GROUND RODS AND GROUND RINGS AS SHOWN ON ELECTRICAL SITE PLAN AND GROUNDING RIBBER DIAGRAM. NOTIFICATION SHALL BE MADE TO THE FIELD OFFICE SUPERVISOR BEFORE ANY TOWER OR EQUIPMENT IS INSTALLED. THE GROUNDING SYSTEM SHALL BE UNDESIGNED BY THE OWNER'S REPRESENTATIVE.
- GROUNDING CONDUCTORS SHALL BE COPPER OR ALUMINUM. GROUND EITHER SOLID OR STRANDED CONDUCTORS ARE PERMITTED. ALL EXTERNAL CONDUCTORS WITH THE EXCEPTION FOR GROUND WIRE BETWEEN THE TOP AND THE BOTTOM OF THE ANTENNA TOWER MUST BE BARE. EQUIPMENT GROUND LEADS IN SOLID TINED WIRE SHALL BE USED. ALL WIRES MUST BE 2 AWG MIN. UNLESS OTHERWISE SPECIFIED.
- THE GROUND ELECTRICAL SYSTEM SHALL CONSIST OF PERMANENT GROUND RODS IMPROPERLY SPACED AROUND CELL SITE. THE GROUND RODS SHALL BE 5/8" DIA. OF COPPER CLAD STEEL. THE TINED COPPER GROUND WIRE BARRIED 4" BELOW THE SURFACE OF THE SOIL THROUGH DISTANCE BETWEEN GROUND RODS - 10' LONG IS 20'
- ALL CADWELDS ABOVE FINISHED GRADE SHALL BE PAINTED WITH BONDIC. PAINTED ZINC ENRICHED PAINT TO MATCH COLOR OBJECT BOUND TO.
- PROVIDE 2" HOLE, LONG BARREL, TINED SOLID COPPER WIRE. CHARACTERISTICS ARE SHOWN BELOW. 12-12-25 PREFERRED WITH CHARACTERISTICS OF COPPER WIRE AND COPPER BELTS SHOWN WHERE WIRE COPPER CONNECTOR IS REQUIRED.
- ALL GRAB CONNECTIONS MUST BE MADE USING HYDRAULIC TOOL AND THREE POINT MECHANICAL CONNECTION FOLDS ON LONG BARREL WIRE.
- ALL MECHANICAL CONNECTIONS MUST BE MADE USING TIGHTENING TORQUE SPECIFICATIONS. ALL SURFACES BEFORE CONNECTING COAT ALL SURFACES BEFORE CONNECTING.
- ALL WAREHOUSE IS A STAINLESS STEEL INCLUDING SPLIT COAT.
- FOR GROUNDING BOND TO STEEL ON 1" RIBBET A DRAGON WITH 1/2" FOR-SHIELD.
- ALL LUG SHANKS AND LEAD JOINTS SHALL HAVE HEAT SHRINK MATERIAL.
- DOUBLE CRIMP ALL LONG BARREL WIRE.

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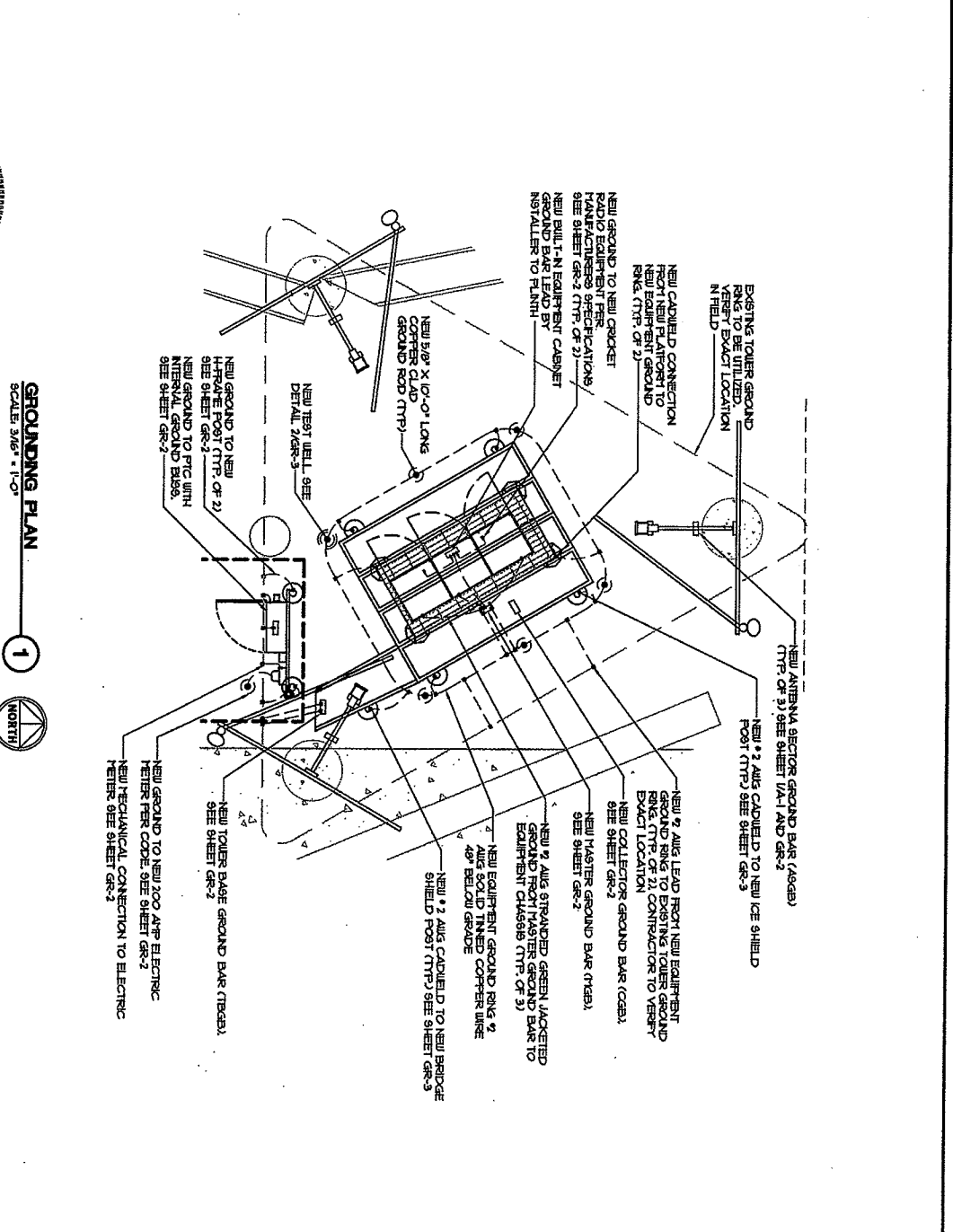
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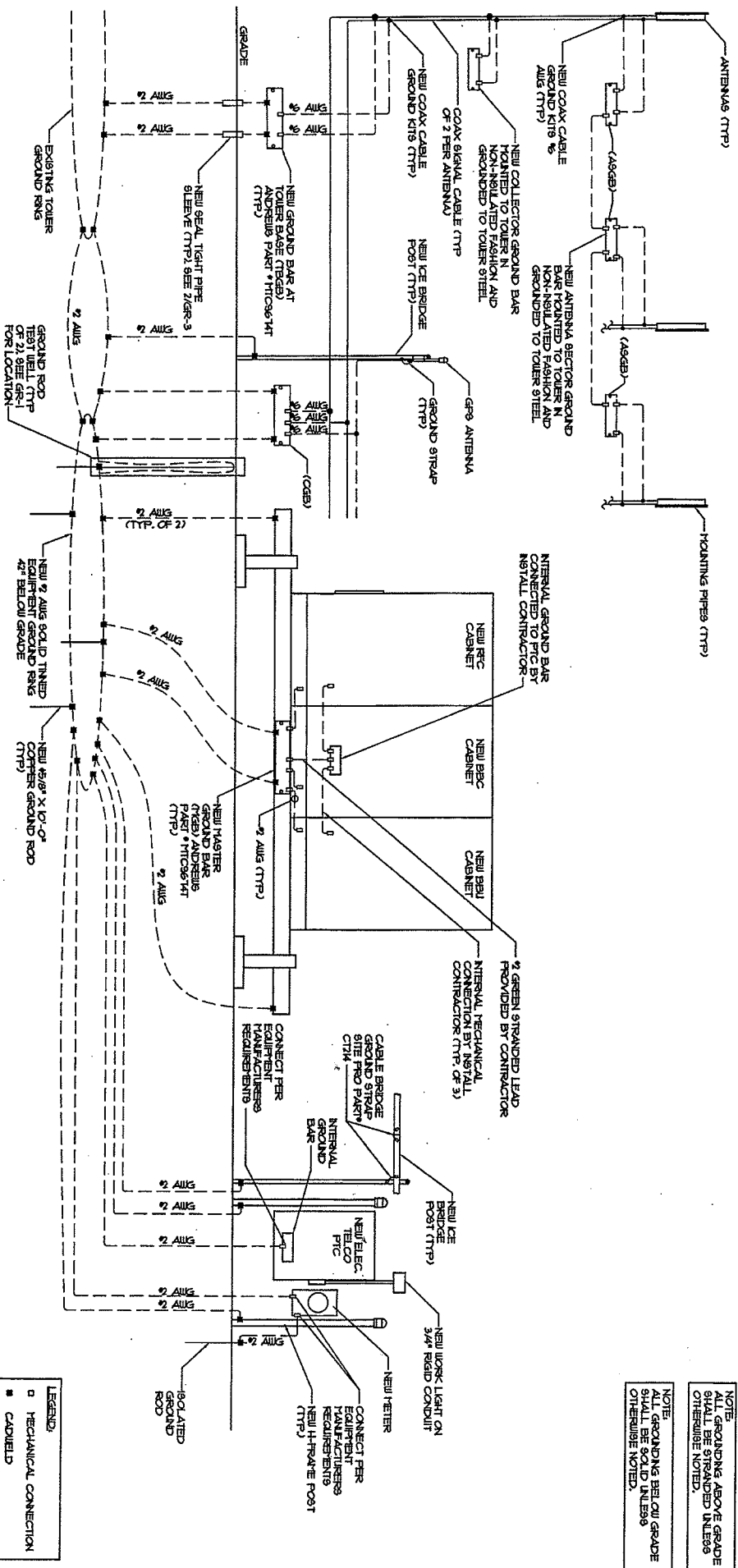
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NO.	DATE	REVISIONS	BY	CHK	APP
1	11/27/07	REV. REVISIONS			
2	11/29/07	REV. REVISIONS			
3	11/29/07	REV. REVISIONS			
4	10/26/07	REV. REVISIONS			

PROJECT NUMBER: 1071127
 DRAWN DATE: 10/7/12
 GROUNDING SITE PLAN
 DRAWN NUMBER: GR-1



GROUNDING PLAN
 SCALE: 3/8" = 1'-0"
 1 NORTH



NOTE: USE THE PROOF READERS' AND ANDREWS PART #TCS9614T

NOTE: ALL GROUNDING ABOVE GRADE SHALL BE STRANDED INL899 OTHERWISE NOTED.

NOTE: ALL GROUNDING BELOW GRADE SHALL BE SOLID INL899 OTHERWISE NOTED.

GROUNDING RISER
SCALE: N/A

1

LEGEND

- MECHANICAL CONNECTION
- CADFIELD
- ▲ GENTYCORP/RESOLUTION
- COAX GROUND KITS
- ⚡ BOND TO TOWER

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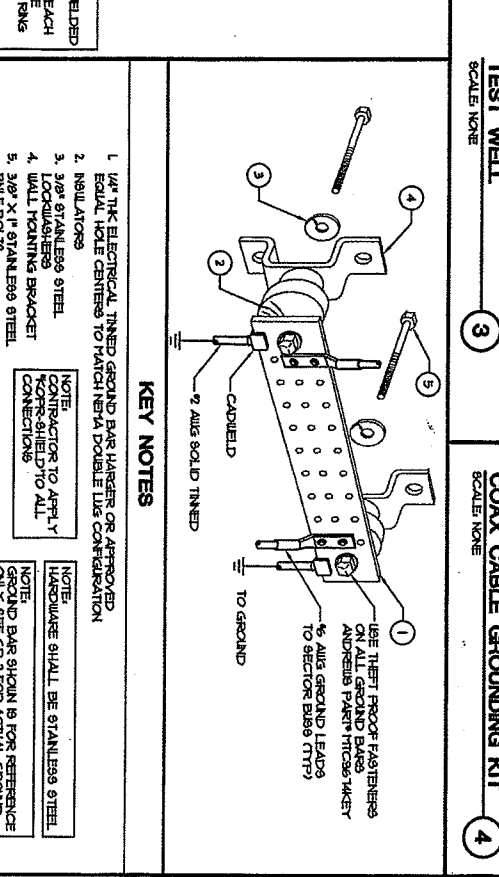
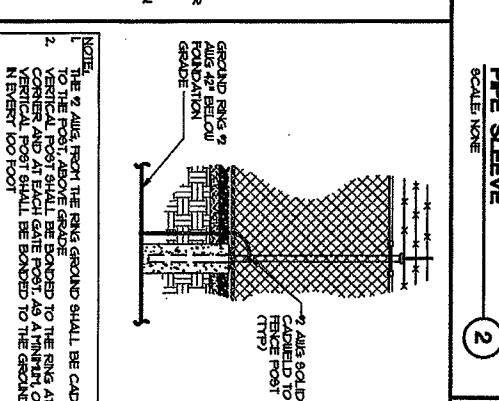
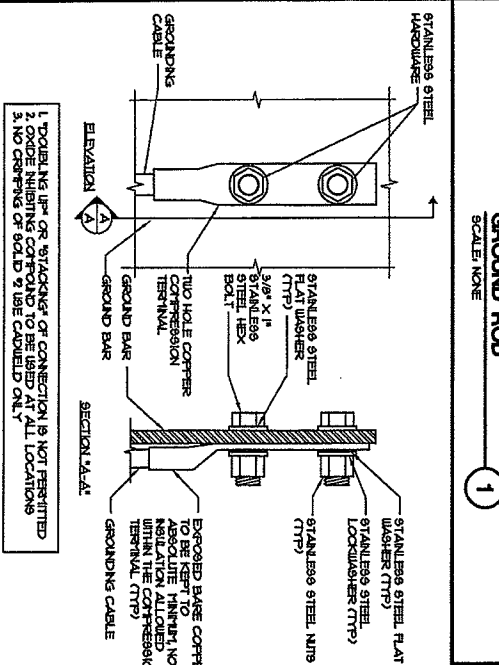
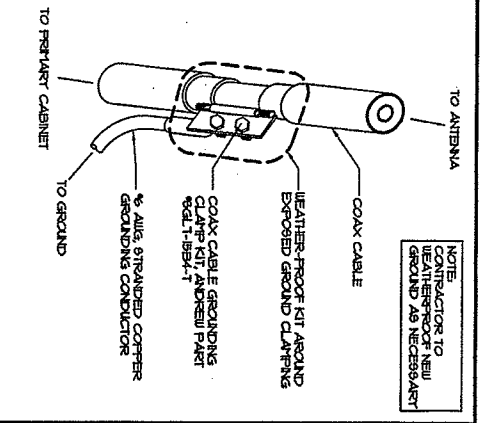
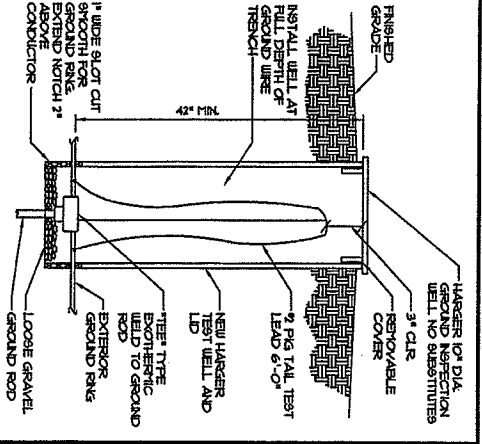
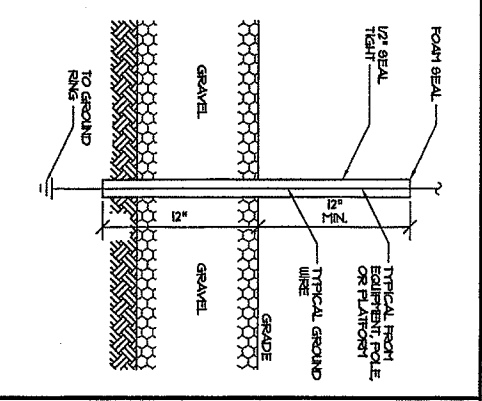
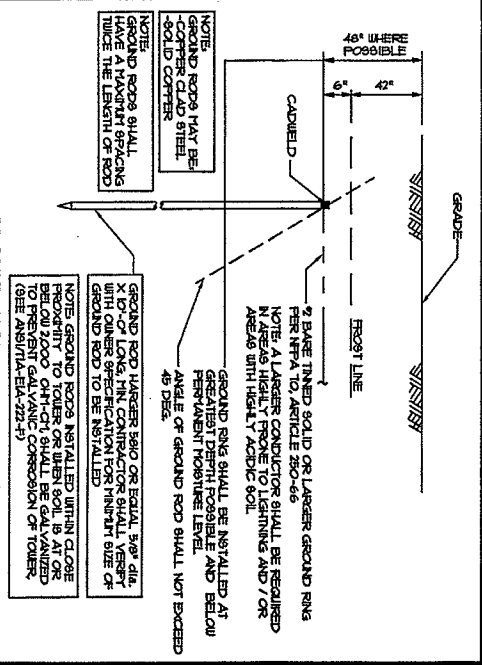
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NO.	DATE	DESCRIPTION	BY	CHECKED BY
1	12/17/07	PER REVISION		
2	11/09/07	FOR CONSTRUCTION		
3	11/07/07	FOR DESIGN COMMENTS		
4	10/25/07	FOR DESIGN		
5	10/25/07	FOR DESIGN		

PROJECT NUMBER: 1071127
DRAWING TITLE: GROUNDING RISER DIAGRAM
DRAWING NUMBER: GR-2



emhc

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NO.	DATE	REVISIONS	BY	CHK	APP'D
1	12/17/07	PER REVISIONS	JFC	REJ	KAM
2	11/09/07	PER CONSTRUCTION	JFC	REJ	KAM
3	11/09/07	PER CLIENT COMMENTS	JFC	REJ	KAM
4	10/23/07	538 REVIEW	JFC	REJ	KAM
5	10/23/07	538 REVIEW	JFC	REJ	KAM
6	10/23/07	538 REVIEW	JFC	REJ	KAM

SCALE AS SHOWN

DESIGNED BY: REB
DRAWN BY: JFC

PROJECT NUMBER: 1071127

DRAWING TITLE: GROUNDING DETAILS

DRAWING NUMBER: GR-3

NOTES

1. THE SUBCONTRACTOR SHALL CONTRACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH CROSS THE WORK SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED BY THE LOCAL AGENCY, THE UTILITIES SHALL BE RELOCATED AS DIRECTED BY THE CONTRACTOR. EXPOSED UTILITIES BE AROUND OR NEAR UTILITIES, SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A FALL PROTECTION BY CONFINED SPACE AND/OR LOCAL UTILITIES
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS
4. IF NECESSARY, RUMBLE STRIPS, DEBRIS, STICKS, STONES, AND OTHER DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED WITH THE EXCEPTION OF THE WORK SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES
6. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE SPECIFICATIONS FOR SITE SIGNAGE
7. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS
8. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, OR EMBANKMENT
9. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION
10. THE AREAS OF THE OWNERS' PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER EQUIPMENT OR DRAINAGE SHALL BE GRADED TO A FINISH ELEVATION AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT DRAWINGS
11. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DRAINAGE CONSTRUCTION EROSION CONTROL MEASURES. IF REQUIRED DURING EROSION AND SEDIMENT CONTROL
12. ALL EROSION CONTROL MEASURES, PLACED BY CONTRACTOR SHALL BE REMOVED AFTER COMPLETION OF CONSTRUCTION AND SOIL STABILIZATION
13. ANY SINKAGE CAUSED BY POOR CONSTRUCTION WILL BE REPAIRED AT CONTRACTORS EXPENSE

NOTES


1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A96 UNLESS OTHERWISE NOTED
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLER WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE 2.4. IN THE AISC MANUAL OF STEEL CONSTRUCTION. PAINTED SURFACES SHALL BE TOUCHED UP
3. BOLTED CONNECTIONS SHALL BE ASTM A325 BOLTS. 3/4" DIA. BOLTED CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE
4. NON-STRUCTURAL CONNECTIONS FOR STEEL BRACING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE
5. INSTALLATION OF CONCRETE EXPANSION/SHRINK ANCHOR SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOUGLIE, DRILL OR AS SHOWN TO MANUFACTURERS RECOMMENDATION FOR BREVENT CONTRACTOR APPROVAL WHEN DRILLING. NO REBAR SHALL BE CUT WITHOUT PRIOR REQUIRED BY COVERING CODES. SHALL BE PERFORMED IN ORDER TO MANUFACTURERS' MANUAL ALLOWABLE CODES

CONCRETE & REINFORCING STEEL NOTES


1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A63, ASTM A82, AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS UNLESS NOTED OTHERWISE. 5/8" FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSI
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 65, GRADE 60 DESCRIBED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPICES SHALL BE CLASS 400 AND ALL HOOKS SHALL BE STANDARD. UNLESS OTHERWISE NOTED
4. 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 WEATHER... 2 IN.
 - 5% AND LARGER... 1 1/2 IN.
 - 5% AND SMALLER & WIRE... 1 1/2 IN.
5. A CHANGE 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS OTHERWISE NOTED, IN ACCORDANCE WITH ACI 301 SECTION 4.24
 - SLABS AND WALLS... 3/4 IN.
 - BEAMS AND COLUMNS... 1 1/2 IN.

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY - CROCKET COMMUNICATION CONTRACTOR - GENERAL CONTRACTOR
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND SPECIFICATIONS. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL APPLICABLE REGULATIONS, RULES, REGULATIONS, AND LOCAL ORDERS OF ANY FEELING AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL APPLICABLE CODES, ORDINANCES AND APPLICABLE REGULATIONS
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTEANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS
6. NOTHING LIST SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY OWNER ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND LISTING LIST SHALL BE SUPPLIED BY THE CONTRACTOR
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, AND TIE CABLES. ALL WIRING CABLES AS SHOWN ON THE POWER, GROUNDING AND TIE-OUT PLAN DRAWINGS
10. SUBCONTRACTOR SHALL PROTECT EXISTING APPROVEDS, PAVEMENTS, CHISELS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTORS EXPENSE TO THE SATISFACTION OF OWNER
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COPPER CABLES AND OTHER ITEMS REMOVED FROM THE DRAWINGS. ALL UTILITIES REMOVED SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION



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NO.	DATE	REVISIONS	DESIGNED BY	DRAWN BY	PROJECT NUMBER	DRAWING TITLE
1	12/17/07	PER REVISIONS	JTC	RES	1071127	SPECIFICATIONS
2	11/29/07	FOR CONSTRUCTION	JTC	RES		
3	11/27/07	PER CLIENTS COMMENTS	JTC	RES		
4	11/22/07	ISS REVIEW	JTC	RES		
5		ISS REVIEW	JTC	RES		
6		REVISIONS	JTC	RES		
			JTC	RES		
			JTC	RES		
			JTC	RES		
			JTC	RES		
			JTC	RES		

SHEETS AS SHOWN
 SHEET NO. SP-1

ELECTRICAL INSTALLATION NOTES

ELECTRICAL INSTALLATION NOTES (CONT.)

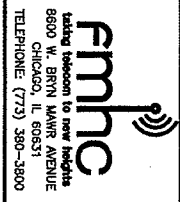
GROUNDING NOTES (CONT.)

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES
2. CONDUIT RACKING ARE SCHEMATIC SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT RACKING AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RACKS
5. EACH END OF EVERY POWER POWER PHASE CONDUCTORS (IE LOSS) GROUNDING AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED IDENTIFICATION OR ELECTRICAL TAPES (3M BRAND 1/2" PLASTIC ELECTRICAL TAPES WITH UV PROTECTION OR EQUAL) THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC 110.14
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION WIRE CONDUCTOR POWER OR AFFIXITY RATING, AND BRANCH CIRCUIT ID NUMBERS (IE PANEL BOARD AND CIRCUIT ID'S)
7. PANEL, BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS
8. ALL THE WORKS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOLS TO REMOVE SHARP EDGES
9. POWER CONTROL, AND EQUIPMENT GROUND WIRING IN TRUNG OR CONDUIT SHALL BE SHIELD CONDUCTOR (4# AWG OR LARGER) 600V OIL RESISTANT THIN OR THIN-2, LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SHIELD CONDUCTOR (4# AWG OR LARGER) 600V OIL RESISTANT THIN OR THIN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (DUEI AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED
11. POWER AND CONTROL WIRING, NOT IN TRUNG OR CONDUIT SHALL BE THIN-2 CONDUCTOR TYPE TC CABLE (4# AWG OR LARGER) 600V OIL RESISTANT THIN OR THIN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (DUEI AND DRY) OPERATION WITH OTHER JACKETS LISTED OR LABELED FOR THE LOCATION UNLESS OTHERWISE SPECIFIED
12. ALL POWER AND GROUNDING CONNECTIONS SHALL BE GRIFF-STYLE COPPRESSION WIRE LIES AND WIRENUTS BY THONY AND BERTS (OR EQUAL) LIES AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (165° F AVAILABLE)
13. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NFPA 70, ARTICLE, AND NEC
14. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NON-METALLIC CONDUIT (IE RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS
15. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NON-METALLIC TUBING (ENT) OR RIGID PVC CONDUIT SHALL BE USED FOR CONCEALED INDOOR LOCATIONS
16. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE
17. RIGID CONDUIT (RIGID) SHALL BE USED UNDERGROUND, DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR EXPOSED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC
18. RIGID NON-METALLIC CONDUIT (RNC) SHALL BE USED UNDERGROUND IN AREAS OUTSIDE CHICAGO UNLESS ENCASED IN CONCRETE
19. LEAD-TIGHT FLEXIBLE METALLIC CONDUIT (LTD) THE FLEXO SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED APPROVED FOR THE LOCATION USED, SETSCREW FITTINGS ARE NOT ACCEPTABLE
20. CABINETS, BOXES, AND URNWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NFPA 70, ARTICLE, AND NEC
21. URNWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SINK OPEN DOWNWARD, SHALL BE PAINTED TYPE E (OR EQUAL), AND RATED NEMA 1 (OR BETTER)
22. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND FULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS
23. METAL RECEPTACLE SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING SHALL MEET OR EXCEED UL 504 AND NEMA 3R (OR BETTER) INDOORS, OR WEATHER PROTECTED (IP OR BETTER) OUTDOORS
24. NON-METALLIC RECEPTACLE SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA 3R (OR BETTER) INDOORS, OR WEATHER PROTECTED (IP OR BETTER) OUTDOORS
25. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES, AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY
26. ALL ELECTRICAL WORK SHALL BE UL APPROVED OR LISTED
27. POWER WIRING AND CABLES SHALL BE COPPER WITH TYPE SHALL THIN OR THIN INSULATION, SOLID CONDUCTORS FOR 4# AWG AND SMALLER STRANDED FOR LARGER THAN 4# AWG, MINIMUM SIZE 12 AWG
28. CONTRACTOR TO OBTAIN ALL PERMITS, PAY PERMIT FEES, AND BE RESPONSIBLE FOR SCHEDULING INSPECTIONS
29. CONTRACTOR TO OBTAIN LOCAL POWER AND TELEPHONE COMPANY APPROVAL AND COORDINATE WITH UTILITY COMPANIES SERVICE ENTRANCE REQUIREMENTS, PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL THE INCIDENTAL TO COMPLETING AND PRESERVING THIS PROJECT AS FULLY OPERATIONAL
30. READ OR INTERMEDIATE METAL CONDUIT SHALL BE USED IN ALL CONCRETE SLABS ABOVE GRADE
31. READ OR INTERMEDIATE METAL OR RIGID NON-METALLIC CONDUIT SHALL BE USED UNDERGROUND
32. READ, RIGID NON-METALLIC, INTERMEDIATE OR ALUMINUM CONDUIT SHALL BE USED WHENEVER EXPOSED TO WEATHER
33. NO ELECTRICAL METALLIC TUBING (EMT) IS PERMITTED OUTSIDE ONLY

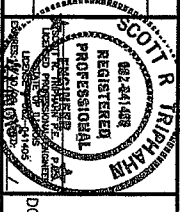
GROUNDING NOTES

GROUNDING NOTES

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION RADIO, TELEVISION, AND OTHER SYSTEMS) SHALL BE TAKEN FROM BELOW GRADE BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 100 AND 81 FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL RUN AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEPARATING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT + PROVIDE TESTING RESULTS METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MADE ELECTRICALLY CONTINUOUS BY LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING THE CONDUIT CLAMP
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR STRANDED COPPER CONDUCTORS WITH GREEN INSULATION SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FINISHED AND INSTALLED WITH THE POWER CONDUITS TO EQUIPMENT
5. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BARS WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRING, 4# AWG STRANDED COPPER OR LARGER CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED, CONNECTIONS TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR ARE PERMITTED
6. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT GROUND BARS, AND THE GROUND BARS, SHALL BE 4 AWG SOLID THINNED COPPER UNLESS OTHERWISE INDICATED
7. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS
8. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED
9. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE
10. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR + EXTERIOR) SHALL BE FORMED USING HIGH PRESSURE GRIPPS
11. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS
12. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BARS
13. APPROVED ANTIOXIDANT COMPOUND (IE CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL CONNECTION AND BOLTED GROUND CONNECTIONS
14. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH CORROSION RESISTANT PAINTS
15. TRIG. ELECTRICAL AND NON-ELECTRICAL, METAL BOXES, FRAMES, AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC
16. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRING WITH (1) 4 AWG THIN-FLATTED COPPER GROUND CONDUCTOR
17. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE USED AS A MEANS FOR METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUIT, SUCH AS RINGS, WELLS, OR BENTS, METAL SHEATHING, OR SHEATHS THROUGH WALLS OR FLOORS, UNLESS IT IS BENT, METAL SHEATHING, OR CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS IN MATERIAL, SUCH AS PVC PLASTIC CONDUIT SHALL BE USED WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (IE NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT
18. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE EXCEPT AS OTHERWISE INDICATED, RADIAL BENDS OR GROUNDING LEADS TO BE A MINIMUM OF 90° W/ WIRE MAY BE BENT WITH 6" RADIAL BEND WHERE FIELD CONDITIONS PRESENT UNDER BUNDLES.



W-T DESIGN GROUP, LLC
 WIRELESS INFRASTRUCTURE
 2875 Franklin Avenue
 Suite 200
 Chicago, IL 60644
 Tel: (773) 390-1800 Fax: (773) 390-1800
 E. License No. 18400198 Exp. 04/30/2009



VILLAGE OF DOWNERS GROVE LATTICE 2
 ORD-314-A
 801 BURLINGTON AVE.
 DOWNERS GROVE, IL 60515
 DU PAGE COUNTY

cricket
 DIGITAL WIRELESS OPERATIONS, LLC
 8815 W. BURN MAHR
 SUITE 518
 CHICAGO, IL 60631
 OFFICE (847) 315-8411
 FAX (773) 390-3013

NO.	DATE	REVISED BY	REVISIONS	APPROVED BY	PROJECT NUMBER
1	12/17/07		REV REVISIONS		1071127
2	11/07/07		REV CONSTRUCTION		
3	11/07/07		PER CONSTRUCTION		
4	10/22/07		REV CONSTRUCTION		
5	10/22/07		REV CONSTRUCTION		
6	10/22/07		REV CONSTRUCTION		
7	10/22/07		REV CONSTRUCTION		
8	10/22/07		REV CONSTRUCTION		
9	10/22/07		REV CONSTRUCTION		
10	10/22/07		REV CONSTRUCTION		
11	10/22/07		REV CONSTRUCTION		
12	10/22/07		REV CONSTRUCTION		
13	10/22/07		REV CONSTRUCTION		
14	10/22/07		REV CONSTRUCTION		
15	10/22/07		REV CONSTRUCTION		
16	10/22/07		REV CONSTRUCTION		
17	10/22/07		REV CONSTRUCTION		
18	10/22/07		REV CONSTRUCTION		
19	10/22/07		REV CONSTRUCTION		
20	10/22/07		REV CONSTRUCTION		

PROJECT NUMBER: 1071127
 DRAWING TITLE: SPECIFICATIONS
 DRAWING NUMBER: SP-2

AFTER RECORDING, PLEASE RETURN TO:

**Cricket Communications, Inc.
10307 Pacific Center Court
San Diego, CA 92121
Attn: Legal Department**

**Property Tax ID Number: 09-08-211-001
County: DuPage
ORD-314-A**

Memorandum of License

Village of Downers Grove ("Licensor") and Denali Spectrum Operations, LLC, a Delaware corporation ("Licensee") entered into a Site Lease dated _____, 2008 ("Agreement") regarding a portion of the real property located at 801 Burlington Avenue, Downers Grove, IL 60515 as more particularly described in the attached Exhibit A ("Property").

The Agreement is for a term of five (5) years and will commence on the date as set forth in the Agreement ("Commencement Date") and shall terminate at midnight on December 31, 2012. Tenant shall have the right to extend this Agreement for two (2) additional five (5) year terms.

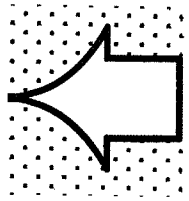
IN WITNESS WHEREOF, the parties hereto have executed this memorandum effective as of the date of the last party to sign.

(SIGNATURES ON FOLLOWING PAGE)

IN WITNESS WHEREOF, the parties hereto have executed this memorandum effective as of the date of the last party to sign.

LICENSOR: VILLAGE OF DOWNERS GROVE,
a municipal corporation

By: _____
Printed Name: _____
Its: _____



LICENSEE: DENALI SPECTRUM OPERATIONS, LLC
a Delaware limited liability company

By: Denali Spectrum License, LLC
Its sole member
By: Denali Spectrum, LLC
Its sole member
By: Denali Spectrum Manager, LLC
Its manager
By: Doyon, Limited
Its manager

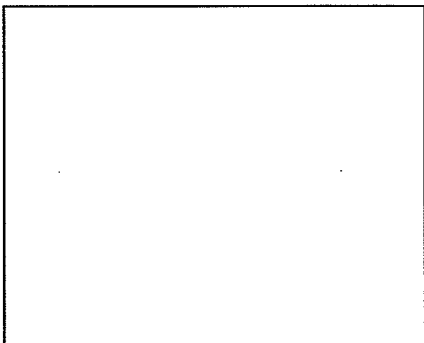
By: *Brian Root*
Brian Root: Brian Root
Title: Operations Manager

LICENSOR:

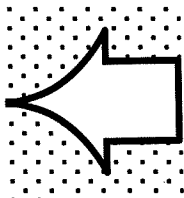
STATE OF _____)
) ss.
COUNTY OF _____)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as the _____ of the Village of Downers Grove to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

Dated: _____.



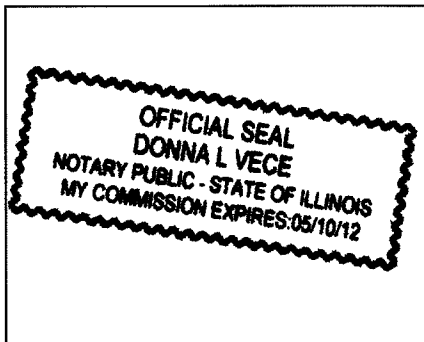
Notary Public
Print Name _____
My commission expires _____



LICENSEE:

STATE OF Illinois)
) ss.
COUNTY OF Cook)

I certify that I know or have satisfactory evidence that Brian Root is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as its Operations Manager, of Denali Spectrum Operations, LLC, to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.



Donna L. Vece
Notary Public
Print Name Donna L. Vece
My commission expires 5-10-12

EXHIBIT A
Legal Description

The Property is legally described as follows:

So much of the Southwest Quarter of the Northeast Quarter (SW1/4 NE1/4) of Section 8, Township 38 North, Range 11 East of the Third Principal Meridian in DuPage County, Illinois, described as follows: Commencing at a point on the South line of 100-foot wide right of way of Burlington Northern Inc., 336.6 feet Eastward (measured on said South line) from the intersection of the North and South center line of said Section 8 with said South line to the place of beginning; thence south 9° West (magnetic bearing), 20.14 feet; thence Eastward, parallel to said South right of way line and 20 feet distant there from, 425.9 feet; thence North 64° East (magnetic bearing), 42.3 feet to said South right of way line; thence Westward on said South right of way line, 459.5 feet to the place of beginning.

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING A LICENSE AGREEMENT BETWEEN THE VILLAGE OF DOWNERS GROVE AND DENALI SPECTRUM OPERATIONS, LLC TO INSTALL, MAINTAIN AND OPERATE AN ANTENNA ON VILLAGE PROPERTY (4318 DOWNERS DRIVE)

BE IT RESOLVED by the Village Council of the Village of Downers Grove, DuPage County, Illinois, as follows:

1. That the form and substance of a certain License Agreement (the “Agreement”) and accompanying Memorandum of License, between the Village of Downers Grove (the “Village”) and Denali Spectrum Operations, LLC (the “Licensee”), for the installation, maintenance and operation of an antenna on Village property located at 4318 Downers Drive, as set forth in the form of the Agreement submitted to this meeting with the recommendation of the Village Manager, is hereby approved.

2. That the Mayor and Village Clerk are hereby respectively authorized and directed for and on behalf of the Village to execute, attest, seal and deliver the Agreement, substantially in the form approved in the foregoing paragraph of this Resolution, together with such changes as the Manager shall deem necessary.

3. That the proper officials, agents and employees of the Village are hereby authorized and directed to take such further action as they may deem necessary or appropriate to perform all obligations and commitments of the Village in accordance with the provisions of the Agreement.

4. That all resolutions or parts of resolutions in conflict with the provisions of this Resolution are hereby repealed.

5. That this Resolution shall be in full force and effect from and after its passage as provided by law.

Mayor

Passed:

Attest: _____
Village Clerk

LICENSE AGREEMENT BETWEEN THE VILLAGE OF DOWNERS GROVE AND DENALI SPECTRUM OPERATIONS, LLC TO INSTALL, MAINTAIN AND OPERATE AN ANTENNA ON VILLAGE PROPERTY

WHEREAS, the Village of Downers Grove (hereinafter referred to as the "Village") is an Illinois municipal corporation and a home rule unit, pursuant to the laws of the State of Illinois; and

WHEREAS, the Village is the lessor of certain real estate located at 4318 Downers Drive, Downers Grove, Illinois, upon which is located a Water Tower (hereinafter referred to as the "Tower"); and

WHEREAS, Denali Spectrum Operations, LLC (hereinafter referred to as the "Licensee") has requested permission to install an antenna on the top of the Tower and its related equipment on ground space near the Tower (hereinafter referred to as the "Antenna"); and

NOW, THEREFORE, in consideration of the mutual promises, covenants and conditions, the Village and the Licensee agree as follows:

1. CONTRACT DOCUMENTS:

The provisions set forth in the preamble and the following exhibits are incorporated into and made a part of this Agreement:

- a. Exhibit 1 - Site map of the Property dated, _____, 2008, and approved by the Village on _____, 2008, showing the Tower Space and Ground Space, together with the areas on the Property licensed to Licensee to provide access and utility service to the Ground Space (collectively the "Licensed Premises") which includes location of any proposed underground utilities necessary for operation of the Antenna.
- b. Exhibit 2 - Plans and specifications dated _____, 2008, and approved by the Village on _____, 2008, for the Antenna and any cables or utility lines to be installed on the Licensed Premises and used or housing of the related Antenna equipment (collectively "Licensee's Improvements").

2. GRANT OF LICENSE:

The Village hereby grants to the Licensee the right, permission and authority to install, operate and maintain Licensee's Improvements upon the terms and conditions hereinafter specified. This Agreement shall not terminate upon the sale, assignment or transfer of the property, but shall run with the land. In the event that the tower is removed, this contract shall cease and neither the Village nor the Licensee will not be responsible or liable for replacement or rent.

3. SPECIFICATIONS: The Licensee shall comply with the following specifications:

Site name: Downers Drive Water Tank

a. *In general:* During the term of this Agreement, there shall be no substantial variations, modifications, or upgrades from the plans and specifications of Exhibits 1 and 2 without the prior written approval of the Village, which approval shall not be unreasonably withheld or delayed.

b. *Antenna:* The Antenna shall be for the operation of radio frequency: receive 1740 MHz; transmit 2135-2140 MHz. The Antenna shall be installed, attached to the Tower, and maintained in conformance with Exhibit 2 and any applicable State and federal requirements. The Antenna shall be located more than ten (10) feet from any existing antenna equipment and shall not exceed seventy-two (72) inches in height.

4. **CONSTRUCTION, INSTALLATION AND MAINTENANCE:**

The Licensee may install, repair, maintain, or replace the Antenna, subject to the following conditions:

a. Licensee shall obtain all required permits and authorizations from the Village, in accordance with the applicable ordinances, prior to commencing any work under this Agreement. Such work shall comply with applicable codes and regulations and shall be conducted in a workmanlike manner.

b. Licensee shall obtain all necessary approvals from any regulatory authorities for the operation of the Antenna. Further, the Licensee shall comply with all applicable laws and regulations of such regulatory authorities including, but not limited to the Federal Communications Commission.

c. All costs connected with the installation, maintenance, repair, use and removal of Licensee's Improvements and any related equipment shall be the responsibility of the Licensee.

d. Licensee shall not take any action or allow any action to be done which may impair the use of or damage the Tower.

e. The Licensee may not interfere with the use by the Village, its officers, agents and employees, of the Tower or the property on which it is located.

f. Except for emergency situations, the Village shall provide reasonable advance notice to Licensee when it conducts any Tower repair or maintenance work that affects the Antenna or function of the Antenna. Except for emergency situations, the Village shall not physically disturb Licensee's equipment without Licensee's permission. Licensee shall be entitled to access the equipment located on the Ground Space near the Tower twenty-four (24) hours a day, seven days a week. Licensee shall provide the Village reasonable advance notice when access to the antenna on top of the Tower is needed. Access to the Tower can only be obtained between the hours of 8:00 a.m. and 4:00 p.m. by calling the Water Manager at 630/434-5462, or in the event of an emergency after hours, by calling Village Operations Center at (630) 434-5706 or (630) 434-5707.

g. The Licensee shall maintain Licensee's Improvements in good repair, and in a clean

Site name: Downers Drive Water Tank
and slightly condition.

h. Upon termination of this Agreement by either party, the Licensee shall, within thirty (30) days and at its expense, remove the Licensee Improvements and restore the Licensed Premises to substantially its original condition, reasonable wear and tear excepted.

i. If Licensee abandons its use of Licensee's Improvements, Licensee shall, within thirty (30) days of receipt of written notice from the Village notifying the Licensee of such abandonment and at its expense, remove the Licensee's Improvements and restore the Tower to substantially its original condition. Licensee's Improvements will be presumed abandoned if it is not operated for a period of one month or more. If Licensee's Improvements are not removed within thirty (30) days, the Village may remove Licensee's Improvements and the Licensee shall reimburse the Village for the costs of such removal.

5. NON-INTERFERENCE WITH VILLAGE OPERATIONS:

Neither this Agreement nor Licensee's Improvements shall interfere or obstruct the functioning of the Village's operations and services. Licensee warrants that Licensee's Improvements shall be constructed, installed, maintained and operated in such a manner as to not interfere or obstruct any radio or electronic equipment or signals of the Village's radio and data systems. In the event such interference occurs, and the interference cannot be eliminated by Licensee after reasonable efforts, the Village may terminate this Agreement, in accordance with Paragraph 8(b) of this Agreement. Provided after notice to Licensee, the Village may immediately terminate this Agreement, or require that operation of the Antenna or any of Licensee's Improvements be immediately ceased where it determines that the Antenna or Licensee's Improvements present an immediate and serious danger to the public health, welfare or safety due to interference with the operation of the Village's radio and data systems.

6. TERM:

a. This Agreement shall have an Initial Term beginning June 1, 2008 or upon the issuance of a building permit, (whichever occurs later), and ending December 31, 2012, and two (2) five-year Extension Terms beginning January 1, 2013, and January 1, 2018, respectively. The first extension term beginning January 1, 2013, shall automatically commence. The second extension term beginning January 1, 2018, shall automatically commence unless either party provides the Village with written notice of its election not to renew the License at least one hundred and twenty (120) days prior to the expiration of the current term. The final date of the agreement shall be December 31, 2022.

b. After February 1, 2018, Licensee may request the Village to enter into negotiations towards renewing or extending this Agreement. Any renewal or extension shall be according to terms that are mutually agreeable and the Village shall not be bound to accept any particular terms or to renew any or all of the rights granted by this Agreement.

7. COMPENSATION:

Site name: Downers Drive Water Tank

Beginning in 2008, upon the issuance of a building permit, Licensee shall pay to the Village a license fee of \$3200.00 per month in 2008. Thereafter, effective on the first day of January in the subsequent years of the agreement, the monthly license fee shall increase in an amount equal to the fee for the preceding year multiplied by 4%. The fee shall be paid to the Village of Downers Grove, Village Hall, 801 Burlington Avenue, Downers Grove, IL 60515.

8. TERMINATION:

This Agreement may be terminated as follows:

a. Licensee may terminate this Agreement at any time upon sixty (60) days written notice to the Village without further liability if Licensee does not obtain all permits or other approvals required from any governmental authority or any easements required from any third party to operate the PCS system, or if any such approval is canceled, expires or is withdrawn or terminated, or if the Village fails to have proper ownership of the site or authority to enter into this Agreement, or if Licensee, for any other reason, in its sole discretion, determines that it will be unable to use the Property, however, if Licensee terminates this Agreement without cause, it shall pay the Village a termination penalty equal to three months of the current rental amount.

b. In the event either party fails to comply with the terms of this Agreement such party shall be considered in default and the non-defaulting party may serve written notice of its intent to terminate this Agreement. Except where the public health or safety is threatened, the notice shall give the defaulting party not less than thirty (30) days to correct such non-compliance. In the event the default is not corrected within thirty (30) days of such notice, the non-defaulting party may terminate this Agreement by serving a written notice of termination. Notwithstanding the preceding, if any default cannot be cured within thirty (30) days and the defaulting party has diligently commenced and continues to take reasonable action necessary to cure the default, the defaulting party shall be entitled to a reasonable extended period of time in order to cure the default.

c. In the event the Tower is destroyed or substantially damaged so as to substantially effect Licensee's use of the property, this Agreement shall be considered terminated.

9. TOWER REPAIR/MAINTENANCE:

Upon receiving ninety (90) days notice from the Village that it intends to repair or perform maintenance to the Tower, Licensee shall, at its own expense and in such manner as the Village shall reasonably request, immediately remove, relocate, change or alter the position of Licensee's Improvements. During the term of this Agreement, the Tower may be refurbished and/or painted. Refurbishment and/or painting will take several months to complete (approximately five to eight months). Prior to beginning refurbishment and/or painting, Licensee understands that its Antenna shall be removed from the Tower upon notice from the Village and that the Antenna shall not be reinstalled until the refurbishment and/or painting is completed and the Village has approved such reinstallation, which approval shall not be unreasonably withheld, conditioned or delayed. During such period, Licensee may, at its sole

Site name: Downers Drive Water Tank

cost and expense, install the Antenna on a temporary telephone pole or bring a cell on wheels outside the shrouded area of the tower in a location approved by the Village. However, such temporary arrangement shall not interfere with the refurbishment and/or painting of the tower or with other Village operations on the site. The Village shall not be responsible for any costs of removal, relocation, and reinstallation of the Antenna as a result of the refurbishment and/or painting.

10. RESTORATION:

When the Licensee does any work on or affecting the Licensed Premises, it shall, at its own expense, restore the Licensed Premises to as good a condition as existed before the work was undertaken, unless otherwise directed by the Village. If the Licensee fails to restore the Licensed Premises, the Village may, after communications with the Licensee and after affording the Licensee a reasonable opportunity to correct the situation, restore the Licensed Premises, or remove the obstruction therefrom. No such prior written notice shall be required in the event that the Village determines that an emergency situation exists. The Licensee shall pay the Village for any reasonable costs of such restoration within fourteen (14) days after receiving a bill from the Village for such work.

11. UTILITIES:

Licensee shall be responsible for obtaining adequate utilities for operation of Licensee's Improvements, including electricity from any source available on the Property as along as the electricity for Licensee's Improvements are separately metered. Any utilities to be installed must be underground and at a location approved by the Village. Licensee shall pay for the electricity or any other utility it consumes in its operations at the rate charged by the servicing utility company and the Village shall not be liable for such charges.

12. TAXES:

Licensee is solely responsible for payment of taxes on the leasehold. Licensee is solely responsible to determine the taxes owed and to comply with the County payment procedures. Licensee shall reimburse the Village for any personal or real property taxes which are assessed as a result of Licensee's Improvements and directly attributable to its use of the Property under the terms of this Agreement. Licensee shall have the right, at its own expense and without expense to the Village, to contest by appropriate proceedings, conducted with due diligence and in good faith, the validity of the amount of any taxes or reassessment as applicable to the Licensed Premises or the Licensee Improvements. In the event that the Village becomes aware of any tax delinquency and that delinquency is not cured by the Licensee, the Village shall have the right to remove any of Licensee's equipment and terminate the Agreement.

13. INDEMNIFICATION:

Licensee shall indemnify, become responsible for and hold harmless the Village, its boards, committees, commissions, officers, agents and employees from any and all liability arising out of the existence of this Agreement; the installation, existence, maintenance or repair of Licensee's Improvements; or any act or omission of Licensee, its officers, agents and

Site name: Downers Drive Water Tank

employees, except for liability which arises from the Village's or its employees' or agents' negligence or intentional misconduct.

For purposes of this Agreement, the term "liability" includes, but is not limited to: actual or claimed loss or damage to property or injury to or death of persons; actual or claimed responsibility for such loss, damage, injury or death; and any and all judgments, decrees, costs and expenses of every sort and kind of incident to such loss, damage, injury, death or responsibility, including, but not limited to, court costs, fines and attorney's fees.

14. INSURANCE:

At all times while this Agreement remains in effect, and in recognition of the indemnification provided in the foregoing Paragraph 13, the Licensee shall, at its own cost and expense, maintain a program of third party liability insurance and/or self-insurance to protect the Village, its officers, employees and agents from any liability for bodily injury, death, and property damage occasioned by the activities of the Licensee under this Agreement.

a. During the Term of the Agreement. Licensee shall procure, pay for and maintain in full force and effect during the entire term of the agreement (i) worker's compensation insurance as required by law and which insures Village against worker's compensation claims arising out of Licensee's activities on the Tower; (ii) fire and casualty insurance covering Licensee's Improvements in an amount not less than one hundred percent (100%) of their actual replacement cost; and (iii) commercial general liability insurance, including broad form property damage insurance, for bodily injuries and property damage, in amounts not less than One Million Dollars (\$1,000,000.00) per occurrence and One Million Dollars (\$1,000,000.00) in the aggregate covering bodily injuries or property damage occurring on the Tower.

b. During Construction/Installation. During construction/installation, Licensee's contractor shall also maintain and provide Village with evidence of each of the insurance coverages specified in subparagraph (a) and in the amounts so specified. In addition, the contractor shall provide builder's risk insurance on an "all risks" basis for one hundred percent (100%) of the insurable value of all construction work in place or in progress from time to time, insuring the project, including materials in storage and while in transit, against loss or damage by fire or other casualty, with extended coverage, vandalism and malicious mischief coverage, bearing a replacement cost agreed amount endorsement.

c. Policies. The policy or policies of insurance required by subparagraphs (a) and (b) shall be underwritten by a company or companies authorized to do business in the State of Illinois, shall be reasonably satisfactory to Village, shall name Village as an additional insured and shall be delivered to the Village, together with evidence of the payment of the premiums, prior to the commencement of the term of this Agreement. Licensee or, where applicable, Licensee's contractors shall furnish Village with a written notice of any cancellation, reduction or modification of insurance required under this Section.

15. LIENS:

Site name: Downers Drive Water Tank

Licensee agrees that it will not permit or suffer any lien to be put upon or arise or accrue against the Property in favor of any person or persons, individual or corporate, furnishing either labor or material in any work herein proposed, and the Licensee further covenants and agrees to hold the Village and its property free from any and all liens, or rights or claim of lien, which may or might arise or accrue under or be based upon any mechanic's lien law of the State of Illinois. If any such lien or claim for lien is filed or recorded against the Property, the Village shall give Licensee notice thereof and demand that Licensee remove the same, or post adequate security to insure the removal of the same following the resolution of any dispute between Licensee and the lienholder, within thirty (30) days after such notice. Nothing in this provision shall restrict Licensee from granting a security interest in all or any part of Licensee's Improvements and to file of record UCC financing statements and/or fixture filings to perfect the same.

16. ASSIGNMENT AND SUBLEASING:

This Agreement may not be assigned or transferred without the express written consent of the Village, which shall not be unreasonably withheld, conditioned or delayed. The Village agrees to respond to any such request within thirty (30) days from receipt of the request. Any assignment or transfer without such written consent shall, at the option of the Village, be deemed to be void and of no effect. Provided, however, this Agreement may be assigned or transferred to Licensee's parent or an subsidiary, successor legal entity or other affiliate of Licensee without the Village's written consent as long as the Village is given written notice of the assignment or transfer within 30 days thereof. The Village must approve any sublease and shall be entitled to 50% of any sublease in addition to the rental fee as described in Section 7, above.

17. HAZARDOUS SUBSTANCES:

a. The Village represents and warrants that it has no knowledge of any hazardous substance existing on the Property in violation of any applicable federal, State or local law, regulation or ordinance. The Village further agrees to hold Licensee harmless from and indemnify Licensee against any damage, loss or expense or liability resulting from the existence on the Property of any such hazardous substance, including all attorney's fees and consultant fees, costs and penalties, incurred as a result thereof, unless caused by Licensee or any of its employees or agents.

b. Licensee represents and warrants that its use of the Licensed Premises will not generate any hazardous substance, and that it will not store or dispose on the Licensed Premises, nor transport to or over the Licensed Premises, any hazardous substance in violation of any applicable federal, State or local law, regulation or ordinance. Licensee further agrees to hold the Village harmless from and against and indemnify the Village against any release of such hazardous substance and any damage, loss, or expense or liability resulting from such release, including attorney's fees and consultant fees, costs and penalties, incurred as a result thereof, which was caused by Licensee or any of its employees or agents.

c. "Hazardous Substance" as used herein shall mean any substance or material defined or designated as hazardous or toxic waste, hazardous or toxic materials, hazardous or toxic radioactive substance, or other similar term by any federal, State or local

Site name: Downers Drive Water Tank

environmental law, regulation or ordinance presently in effect or promulgated in the future.

18. COST OF ENFORCEMENT:

The prevailing party in any action or proceeding in court or mutually agreed upon arbitration proceeding to enforce the terms of this Agreement shall be entitled to receive its reasonable attorney's fees and other reasonable enforcement costs and expenses from the non-prevailing party.

19. INVALIDITY:

If any section, paragraph, clause or provision of this Agreement shall be held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the other provisions of this Agreement.

20. FORCE MAJEURE:

Neither party shall be deemed in violation of this Agreement for the delay in performance or failure to perform in whole or in part its obligations under this Agreement due to strike, war or act of war (whether an actual declaration is made or not), insurrection, riot, act of public enemy, fire, flood or other act of God or by other events to the extent that such events are caused by circumstances beyond such party's control.

21. NOTICES:

Unless otherwise specified herein, all notices under this agreement shall be made in writing and delivered to:

Village Manager
Village of Downers Grove
801 Burlington Avenue
Downers Grove, IL 60515-4776

And: Denali Spectrum Operations, LLC
10307 Pacific Center Court
San Diego, CA 92121
Attn: Legal Department

In the event the Licensee moves, consolidates, merges, splits or otherwise reorganizes or moves its offices, it is the duty and obligation of the Licensee to provide written notification to the Village within thirty (30) days of any change.

22. GOVERNING LAW:

This Agreement shall be governed by the laws of the State of Illinois.

Site name: Downers Drive Water Tank

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the ____ day of _____, 2008.

LICENSEE:

Denali Spectrum Operations, LLC
a Delaware Limited Liability Company

Denali Spectrum License, LLC

Its Sole Member

Denali Spectrum, LLC

Its Sole Member

Denali Spectrum Manager, LLC

Its Manager

Doyson, Limited

Its Manager

By: *R. Root*

Title: *Operations Manager*

Subscribed and sworn to
this 15 day of May 2008.

Donna L. Vece
Notary Public

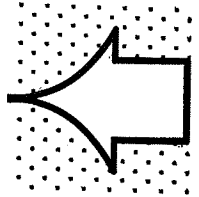


VILLAGE OF DOWNERS GROVE

By: _____
Mayor

ATTEST:

Village Clerk



WIT



APPROVED
#07-13-642-3821
DOWNERS GROVE
CODE SERVICES

DATE _____ INITIAL M. MANEK

cricket communications

SITE NAME:
DOWNERS GROVE WT

SITE NUMBER:
ORD-321-A

NEW EQUIPMENT AND NEW ANTENNAS ON AN EXISTING WATER TOWER

ARCHITECT:
DYNATEK TELECOMMUNICATIONS SERVICES
7134 BROOKWOOD DRIVE
BROOKFIELD, OH 44403
PHONE: 800-838-3224
FAX: 330-448-4337
WWW.DYNATEK.COM

CONTACT: MARK THOMPSON

APPLICANT:
CRICKET COMMUNICATIONS
6619 W. BORN KENNEDY AVE., SUITE 618
CHICAGO, IL 60631
PHONE: XXX-XXX-XXXX

TOWER OWNER:
VILLAGE OF DOWNERS GROVE
2000 INTERNATIONAL PROPERTY
2000 INTERNATIONAL PROPERTY
CONTACT: DAVE BIRD
PHONE: 630.434.5442
CITY

ELECTRIC:
CONRIB
CONTACT: 1.866.639.3332

TELECO:
SBC
CONTACT: 1.800.343.7870

CONSULTANT TEAM

SITE NAME:
DOWNERS GROVE WT

SITE NUMBER:
ORD-321-A

SITE ADDRESS:
1418 DOWNERS DRIVE
DOWNERS GROVE, IL 60515

DU PAGE COUNTY

LAT: 41° 46' 25.00" N
LONG: 88° 1' 31.58" W

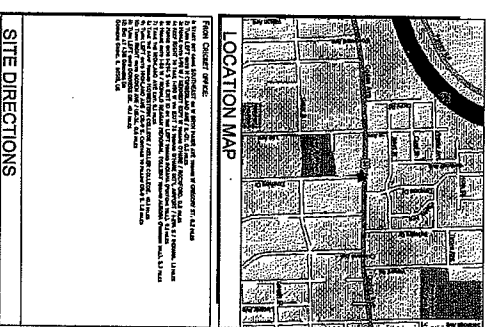
CODE BLOCK:
BUILDING CODE: 2000 INTERNATIONAL BUILDING CODE
2000 INTERNATIONAL PROPERTY
2000 INTERNATIONAL PROPERTY
MAINTENANCE CODE
CURRENT D.G. ZONING ORDINANCE
PROPOSED EQUIPMENT OCCUPANT: B
(UNNANNED TELEPHONE EQUIPMENT AND ANTENNA)
USE GROUP: U (UTILITY)
CONST. TYPE: IIB
SQ. FOOTAGE: 180

THE PROPOSED PROJECT INCLUDES:
NEW 6'-0" x 10'-0" EQUIPMENT PLATFORM
NEW ELECTRICAL SERVICE
NEW ANTENNAS AND ALL ASSOCIATED PARTS

THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS

PROJECT SUMMARY

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
A-1	SURVEY
A-2	SITE PLAN
A-3	ELEVATIONS
A-4	PLATFORM, ICE BRIDGE & OPS DETAILS
A-5	RF ANTENNA TRENCH DETAILS
E-1	ANTENNA MOUNT DETAILS
E-2	GROUNDING PLAN & SCHEMATICS
E-3	GROUNDING DETAILS
E-4	PPC CABINET DETAILS
G-1	GENERAL NOTES
G-2	GENERAL NOTES
G-3	GENERAL NOTES
G-4	GENERAL NOTES



SHEET INDEX

SITE DIRECTIONS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

CRICKET PROP.: _____ DATE: _____

CRICKET R.F.: _____ DATE: _____

CRICKET NETOPS: _____ DATE: _____

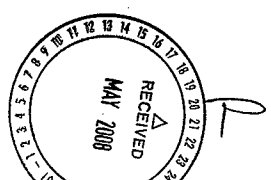
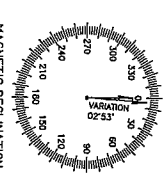
CRICKET CONST.: _____ DATE: _____

INTERCONNECT: _____ DATE: _____

CRICKET SITE DEV. MGR: _____ DATE: _____

PROPERTY OWNER: _____ DATE: _____

APPROVALS



8619 W. BORN KENNEDY AVE.,
SUITE 618
CHICAGO, IL 60631

cricket communications

7134 Brookwood Drive
Brookfield, OH 44403
Phone: 800-838-3224
Fax: 330-448-4337
www.dynatek.com

Dynatek
TELECOMMUNICATIONS SERVICES

DRYNER
PROJECT NO.: 6592

DESIGNED BY: M.T.W.

CHECKED BY: D.C.B.

SUBMITTALS

9	5/5/08	COMMENTS	HNT
8	4/22/08	CITY REVIEW	HNT
7	3/20/08	CITY REVIEW	TN
6	2/28/08	REVIEW REVISIONS	HNT
5	1/16/08	REVIEW REVISIONS	HNT
4	1/17/08	REVIEW REVISIONS	HNT
3	1/16/07	REVIEW REVISIONS	HNT

CRICKET R.F.: _____ DATE: _____

CRICKET NETOPS: _____ DATE: _____

CRICKET CONST.: _____ DATE: _____

INTERCONNECT: _____ DATE: _____

CRICKET SITE DEV. MGR: _____ DATE: _____

PROPERTY OWNER: _____ DATE: _____

3/15/08

DOWNERS GROVE WT
ORD-321-A

418 DOWNERS DRIVE
DOWNERS GROVE, IL 60515

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO OTHER USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CLIENT SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF DYNATEK.

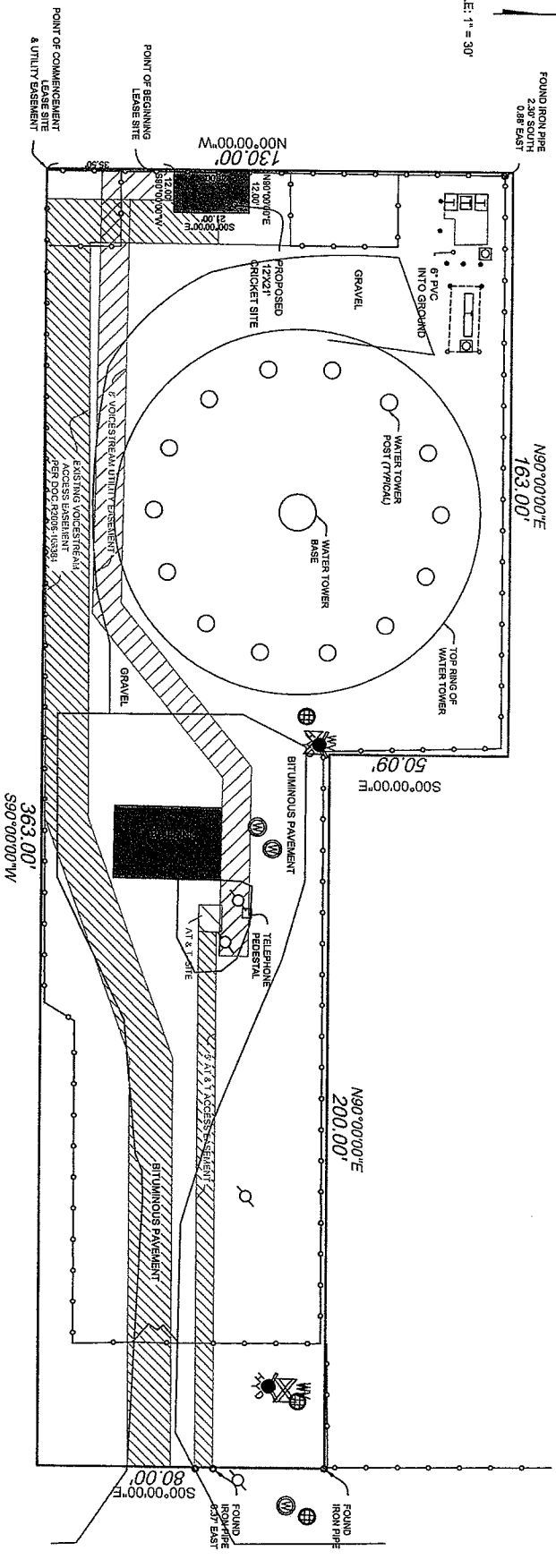
Expires 11-30-2008
[Signature]

SITE SURVEY

PARTIAL FACED LEGAL RESUBDIVISION OF LOTS 8, 9 AND 10 IN WYRON HAMILCOX COBBEN AVENUE SUBDIVISION, BEING A SUBDIVISION SITUATED IN THE SOUTH WEST 1/4 OF SECTION 6, TOWNSHIP 28 NORTH, RANGE 11 EAST, 1200 FEET THENCE SOUTH 00°00'00" EAST 21.00 FEET, THENCE SOUTH 90°00'00" EAST 12.00 FEET TO THE POINT OF BEGINNING, IN DUPAGE COUNTY, ILLINOIS, CONTAINING 222 SQUARE FEET, MORE OR LESS.

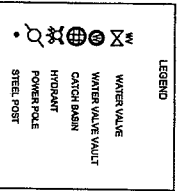


SCALE: 1" = 30'



Call Before You Dig
ILLINOIS ONE-CALL SYSTEM
 QALY: 1-800-492-0123

- NOTES:**
1. P.L.N. 09-06-307/011
 2. THE LOCATION OF UTILITIES WAS DONE BY FIELD OBSERVATION ONLY.
 3. THIS SURVEY WAS PREPARED FOR THE INSTALLATION OF WIRELESS COMMUNICATION EQUIPMENT ONLY.
 4. LATITUDE: 41°48'28.87" (NAD83)
 5. ELEVATION AT BASE OF TOWER: 757.0' (NAD83)
 6. ELEVATION AT TOP OF TOWER: 877.2' (NAD83)

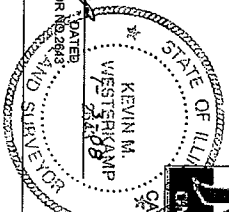


B&G SURVEY COMPANY, INC.
 ILLINOIS & IOWA PROFESSIONAL LAND SURVEYORS
 2651 BERNICE ROAD
 LAVERGNE, ILLINOIS 60534
 TEL: 618-468-8700
 FAX: 618-468-8701
 bgsurvey@bgsurvey.com
 ILLINOIS PROFESSIONAL DESIGN #184,000,811

REV	DESCRIPTION	BY	DATE
1	MOVE LEASE SITE AREA	GMW	11/30/08

ORDERED BY: DINALEX COMMUNICATIONS	CHECKED BY: KMJW
LOCATION: 4318 DOWNERS DRIVE	DATE: 10/11/07
DOWNERS GROVE, ILLINOIS	DATE: 10/05/07
FIELD WORK: KMJW	SHEET: 1 OF 1
JOB NUMBER: 1074101	

KEVIN M. WESTERKAMP
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2943
 MY LICENSE EXPIRES 11/30/2008



cricket
communications

8619 W. Bryn Mawr Ave.
Suite 614
Chicago, IL 60631

Dynatek

TELECOMMUNICATIONS SERVICES

114 Brookwood Drive
Brookfield, OH 44003
Phone: 800-833-3224
Fax: 330-448-4537
www.dynatektelecom.com

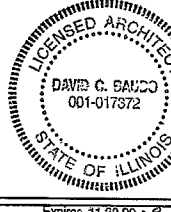
DATE: 6/23

DRAWN BY: M.T.W.

CHECKED BY: D.C.B.

SUBMITTALS	
1	5/5/08 Comments
2	6/22/08 CMT REVISIONS
3	7/14/08 CMT REVISIONS
4	8/28/08 Revoke Revisions
5	10/14/08 Revoke Revisions
6	11/27/08 Revoke Revisions
7	1/15/07 Revoke Revisions

THIS INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY AND INTENDED FOR THE USE OF THE CLIENT TO WHOM IT RELATES TO. CLIENT NAME IS STRICTLY CONFIDENTIAL.



5/16/08

DAVID C. BANCO

001-017872

STATE OF ILLINOIS

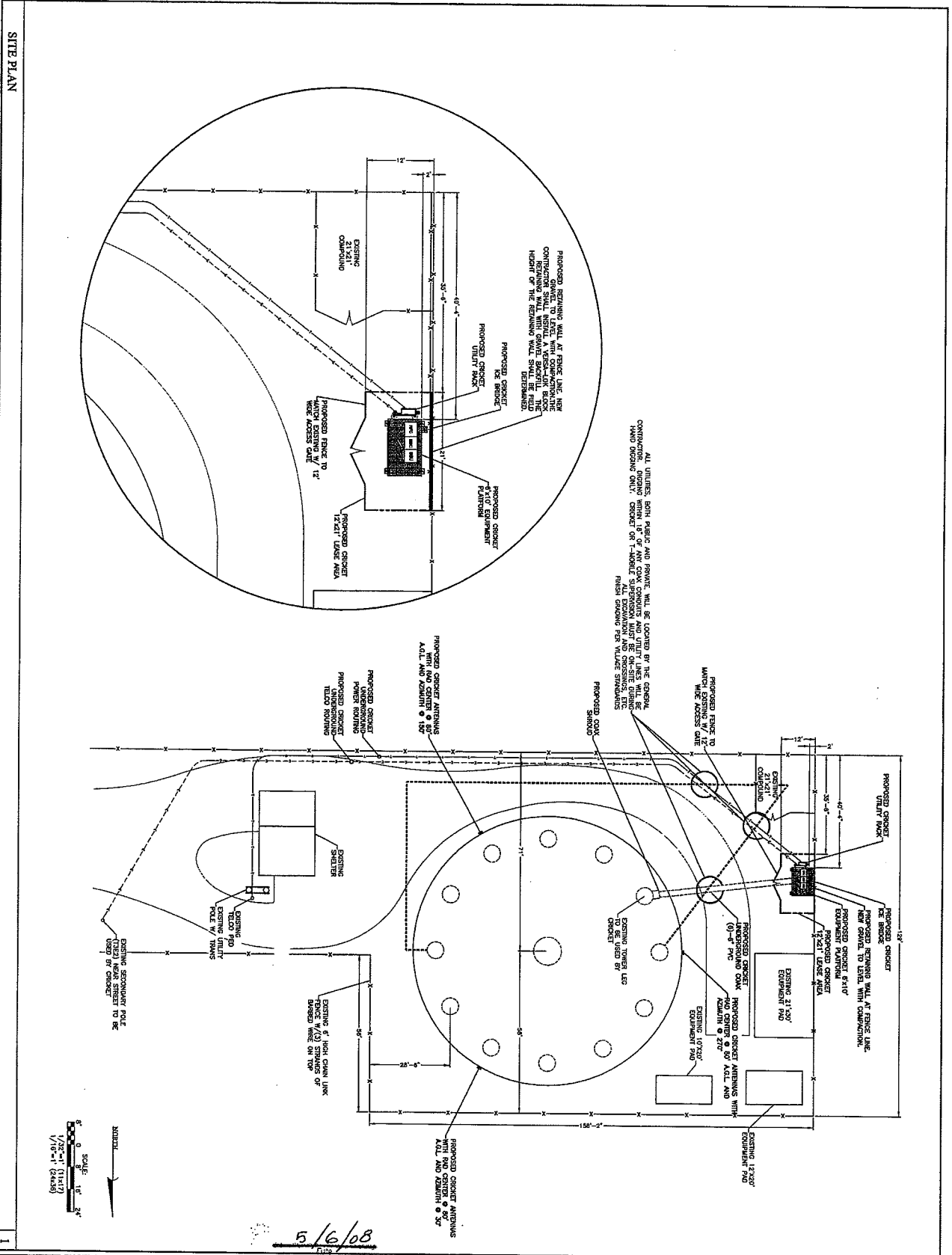
LICENSED ARCHITECT

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY AND INTENDED FOR THE USE OF THE CLIENT TO WHOM IT RELATES TO. CLIENT NAME IS STRICTLY CONFIDENTIAL.

Expires 11-30-2008

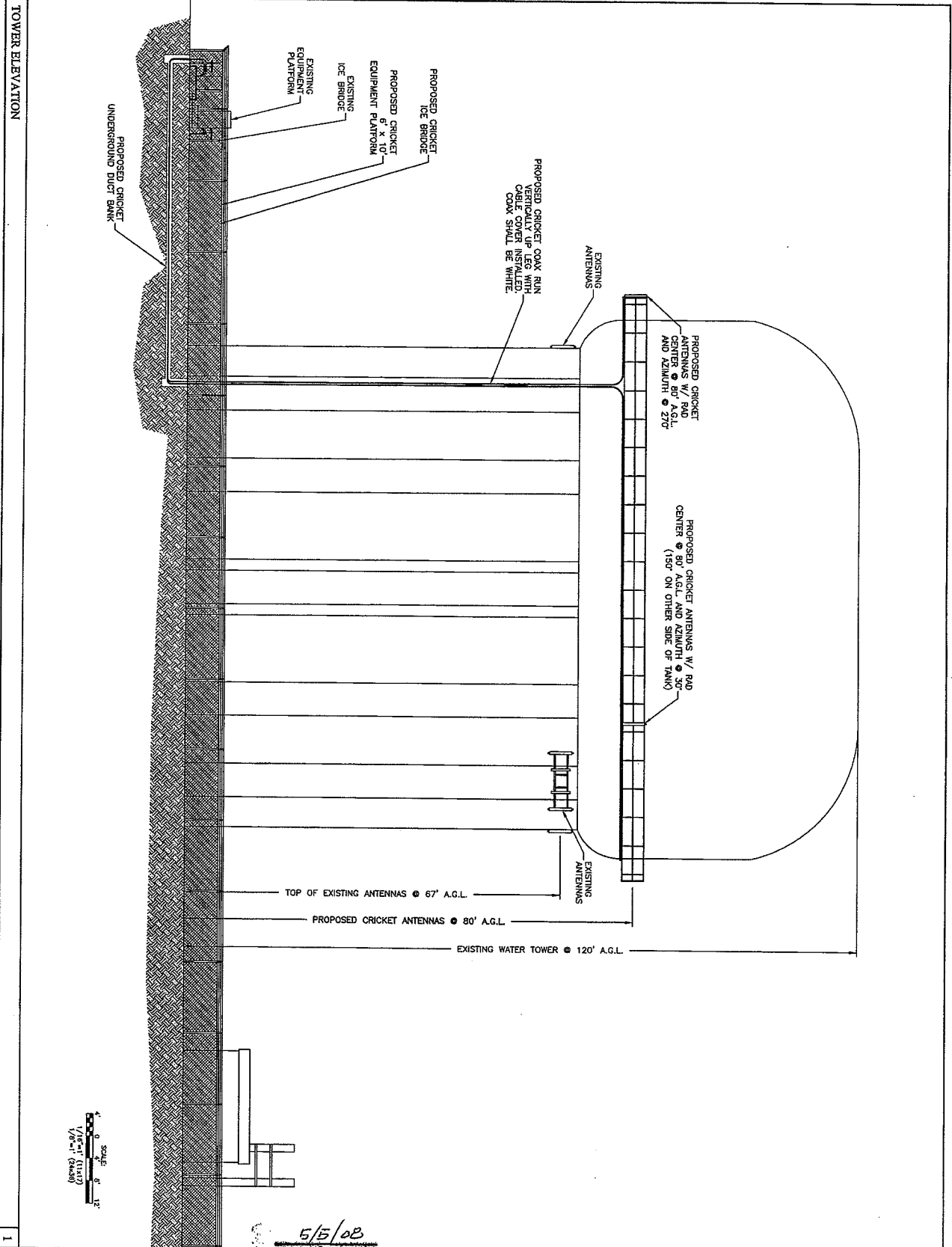
David C. Banco

Signature



SITE PLAN

SHEET NUMBER: A-1



cricket
communications

8619 W. Bogg-Keefer Ave,
Suite 615
Chicago, IL 60631

Dynatek
TELECOMMUNICATIONS SERVICES

7134 Brookwood Drive
Zionwood, IL 60458
Phone: 800.438.2243
Fax: 330.448.4337
www.dynatek.com

PROJECT: 6152

DRAWN BY: M.T.W.

CHECKED BY: D.C.B.

SUBMITTALS

8	1/22/08	CITY REVIEW	TW
7	1/20/08	CITY REVIEW	TW
6	1/22/08	REVIEW REVISIONS	HTW
5	1/14/08	REVIEW REVISIONS	HTW
4	1/2/08	REVIEW REVISIONS	SBH
3	11/15/07	REVIEW REVISIONS	HTW
2	11/15/07	CONCEPT REVISIONS	HTW

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS THE PROPERTY OF DYNATEK. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED ON THESE DRAWINGS. ANY REUSE OR REPRODUCTION OF THIS INFORMATION WITHOUT THE WRITTEN PERMISSION OF DYNATEK IS STRICTLY PROHIBITED.

5/5/08
Date

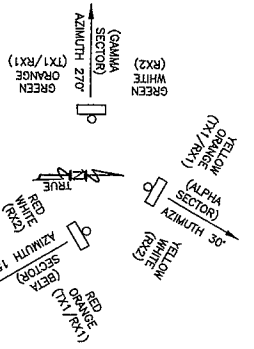
DAVE C. BAUDO
LICENSED ARCHITECT
001-017372
STATE OF ILLINOIS

DOWNER'S GROVE WT
ORD-321-A
418 DOWNERS DRIVE
DOWNERS GROVE, IL 60515

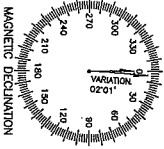
SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER:
A-2

Expires 11-30-2008
David C. Baudo
Architect



- NOTES:
1. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR TO VERIFY ACTUAL LENGTHS BASED ON CONSTRUCTION LAYOUT AND NOTIFY PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
 2. CONTRACTOR SHALL VERIFY THE DOWNWILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
 3. CONTRACTOR TO CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION.
 4. COLOR BANDING SHALL BE 2" WIDE ON THE MAIN LINE (5 WIRE MAIN), SPACING TO BE 1" BETWEEN COLORS. COLOR BAND ON JUMPER'S 1" WIDE WITH 1" SPACING. COLOR BANDS 2" BEYOND WEATHERPROOFING. START SECTOR COLOR NEXT TO END CONNECTOR.



RF CONFIGURATION			
	SECTOR 1	SECTOR 2	SECTOR 3
AZIMUTH	30°	150°	270°
ANTENNA HT (ft)	80'	80'	80'
# OF ANTENNAS	1	1	1
ANTENNA MODEL	KRM-1	KRM-1	KRM-1
ANTENNA MODEL-OTHER	HB-X-AH-17-65-001	HB-X-DB-17-65-001	HB-X-10-17-65-001
ELECTRICAL DOWN-TILT	0	2	2
MECHANICAL DOWN-TILT	0	0	0
CABLE LENGTH (ft)	305'	210'	255'
CABLE TYPE (Inches)	1 5/8"	1 5/8"	1 5/8"
TOP JUMPER LENGTH (ft)	6	6	6
BOTTOM JUMPER LENGTH (ft)	6	6	6
BAS TEE TOP	A1B1-TOP-24V	A1B1-TOP-24V	A1B1-TOP-24V
BAS TEE BOTTOM	A1B1-BOTTOM-24V	A1B1-BOTTOM-24V	A1B1-BOTTOM-24V

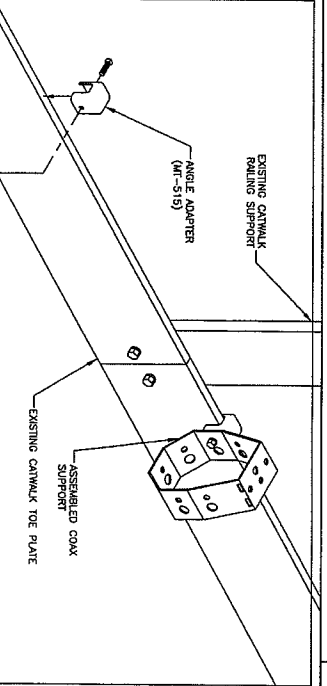
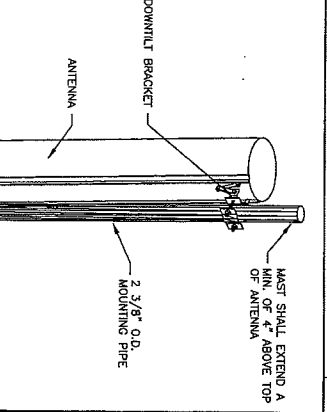
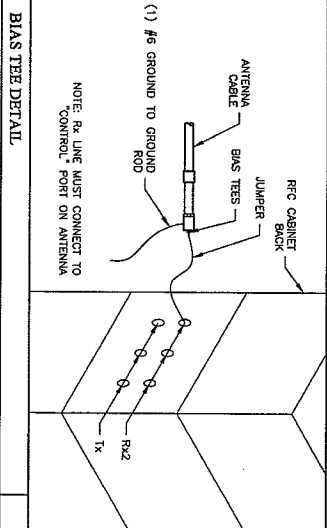
RF CONFIGURATION INFORMATION

1734 Brookwood Drive
 Brookfield, OH 44043
 Phone: 800-833-5224
 Fax: 330-444-4337
 www.dynatekcommunications.com

TELECOMMUNICATIONS SERVICES

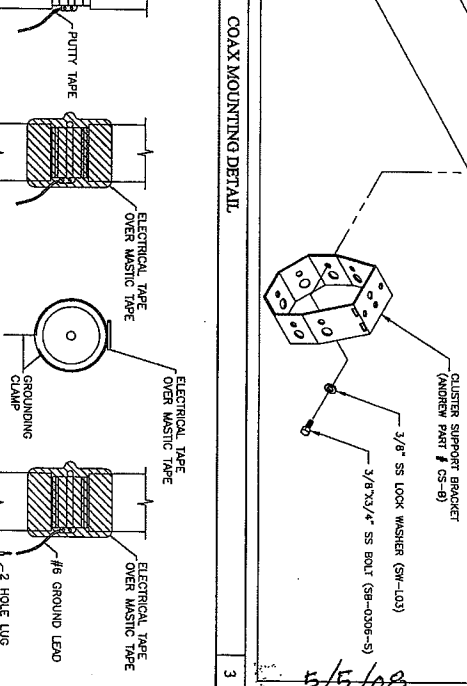
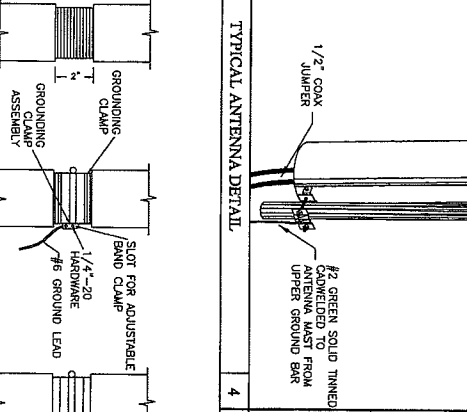
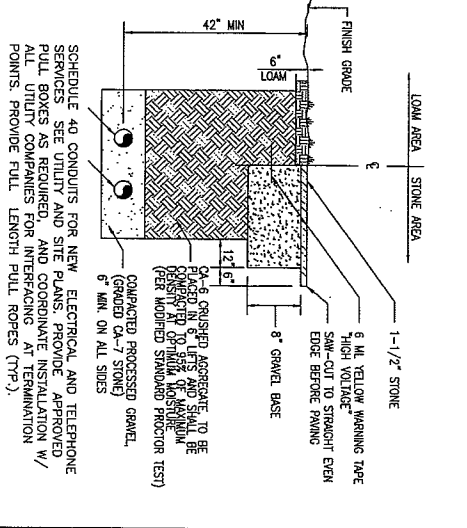
Dynatek
 communications

8619 W. 34th Avenue,
 Suite 415
 Chicago, IL 60631



COAX MOUNTING DETAIL

EXISTING CHANNEL
 EXISTING SUPPORT
 ANGLE ADAPTER (M1-515)
 ASSEMBLED COAX SUPPORT
 EXISTING CANWALK TOE PLATE
 CLUSTER SUPPORT BRACKET (ANDREW PART # OS-8)
 3/8\"/>



TYPICAL ANTENNA DETAIL

1/2" COAX JUMPER
 #2 GREEN SOLID TINNED ANTENNA WIRE FROM UPPER GROUND BAR
 MUST SHALL EXTEND A MIN. OF 4" ABOVE TOP OF ANTENNA
 2 3/8" O.D. MOUNTING PIPE
 ANTENNA
 DOWNWILT BRACKET

DOWNERS GROVE W/ ORD-321-A

ASIAN DOWNERS DRIVE
 DOWNERS GROVE, IL 60515

SHEET TITLE: RF ANTENNA, AND TRENCH DETAILS

SHEET NUMBER: A-3

DATE: 5/5/08

EXPIRES: 11-30-2010

David C. B. Guido

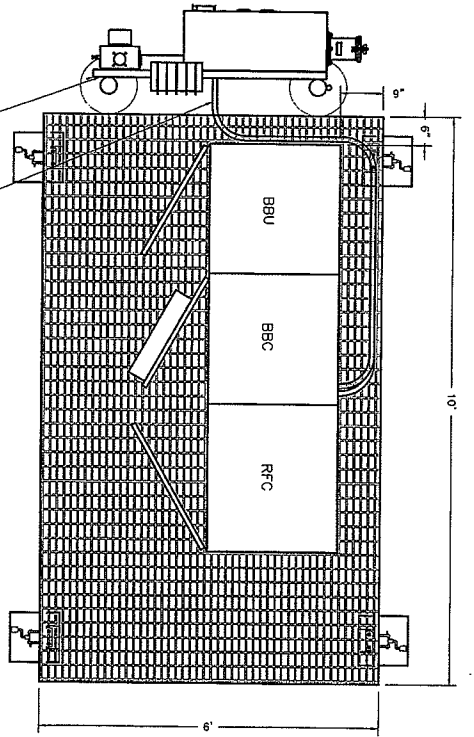
LICENSED ARCHITECT

DAVID C. B. GUIDO
 001-017372

STATE OF ILLINOIS

SUBMITTALS

1	1/10/07	REMOVE REVISIONS	HTV
2	1/10/07	REMOVE REVISIONS	HTV
3	1/10/07	REMOVE REVISIONS	HTV
4	1/10/08	REMOVE REVISIONS	HTV
5	1/10/08	REMOVE REVISIONS	HTV
6	2/26/08	REMOVE REVISIONS	HTV
7	3/20/08	ADD REVISIONS	HTV
8	4/22/08	ADD REVISIONS	HTV



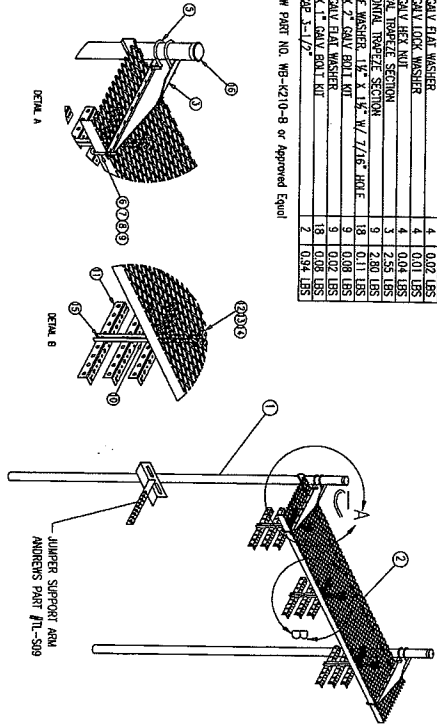
PROPOSED CRICKET 5' H-FRAME TO BE CONSTRUCTED OF 3 1/2\"/>

PLATFORM LAYOUT

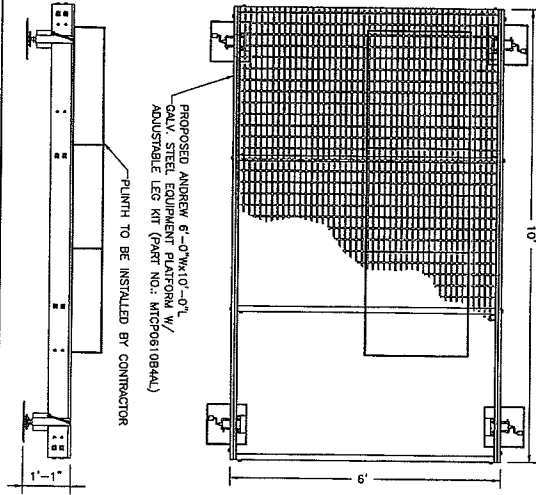
ITEM PART NO.	DESCRIPTION	QTY	WEIGHT
1	48\"/>		
2	48\"/>		
3	48\"/>		
4	48\"/>		
5	48\"/>		
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18	48\"/>		
19	48\"/>		
20	48\"/>		

ANDREW PART NO. WB-K210-B or Approved Equal

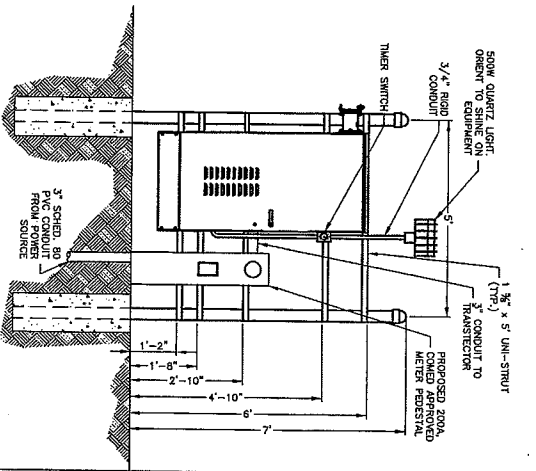
NOTE: MINIMUM CLEARANCE FROM LOWER TRAVEL TO GRADE SHALL BE 7'.



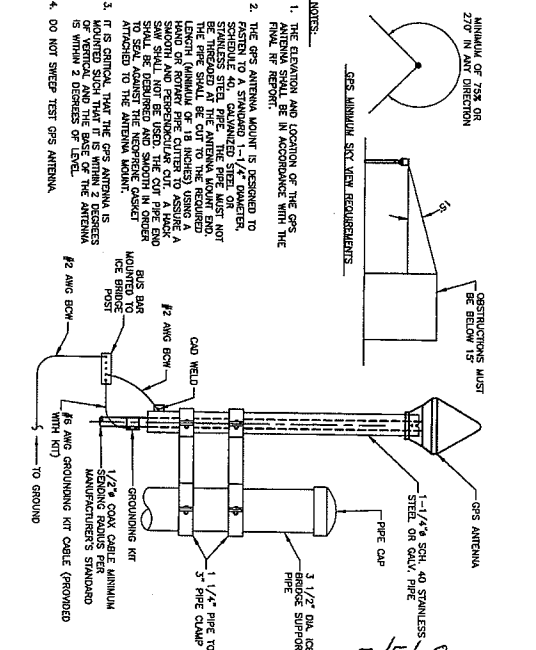
ICE BRIDGE DETAIL (ANDREW PART NO. WB-K210-B or Approved Equal)



PLATFORM DETAIL



BACKBOARD DETAIL



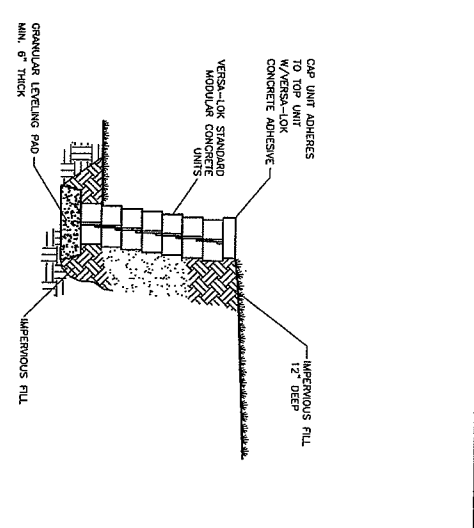
ANTENNA DETAIL

NOTES:

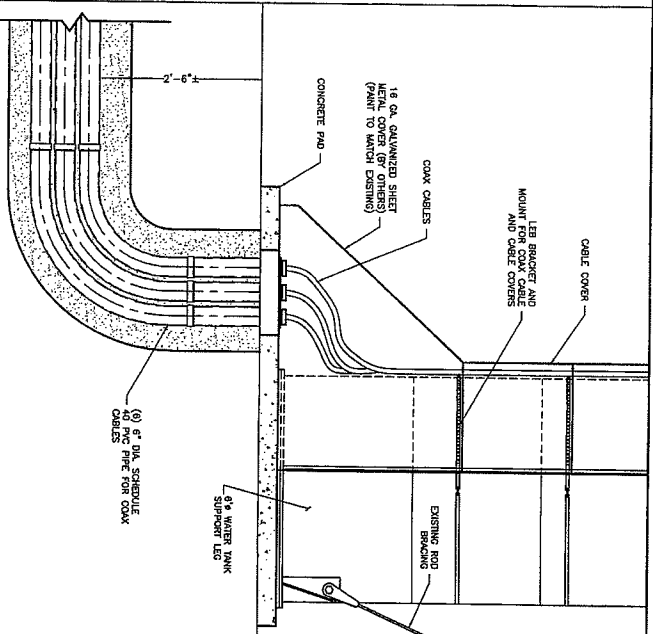
1. THE ELEVATION AND LOCATION OF THE GPS ANTENNA SHALL BE IN ACCORDANCE WITH THE PACE SURVEY REPORT.
2. THE GPS ANTENNA MOUNT IS DESIGNED TO SUPPORT A 4\"/>

<p>cricket communications</p> <p>8619 W. Bryn Mawr Ave. Chicago, IL 60611</p>	<p>Dynatek TELECOMMUNICATIONS SERVICES</p> <p>7134 Brookwood Drive Brookfield, OH 44603 Phone: 800-838-3224 Fax: 330-448-4337 www.dynatek.com</p>	<p>PROJECT NO. 08-033</p> <p>DATE: 11/30/08</p> <p>PROJECT NAME: DOWNERS GROVE WT ICE BRIDGE</p> <p>CLIENT: DOWNERS GROVE</p>	<p>DESIGNED BY: M.T.W.</p> <p>CHECKED BY: D.C.B.</p> <p>DATE: 11/30/08</p>
<p>STATE OF ILLINOIS ARCHITECTS BOARD</p> <p>NO. 031-10-110-17572</p> <p>COMM. & LAND</p>			
<p>THE UNDERSIGNED CERTIFIES IN HIS CAPACITY AS ARCHITECT IN PROGRESS BY NATURE ANY PART OF THIS DRAWING OR PLAN THAT WHICH IS NOT HIS OWN WORK IS NOT HIS OWN WORK AND IS NOT TO BE CONSIDERED AS HIS OWN WORK.</p>			
<p>DOWNERS GROVE WT ICE BRIDGE DETAILS</p> <p>SHEET NUMBER: A-4</p>			

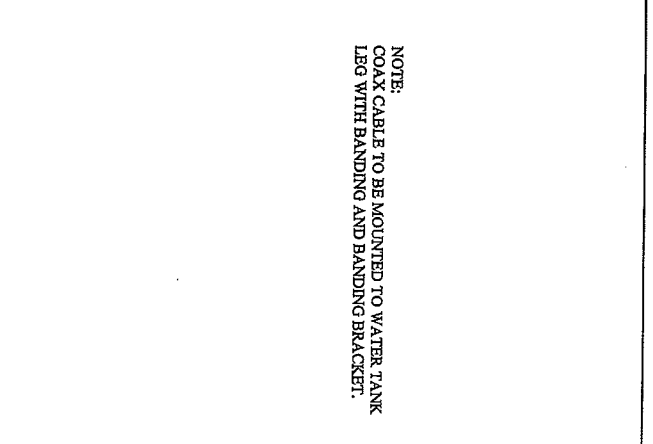
Expires 11-30-2008
David A. Bands



TYPICAL SECTION - UNREINFORCED RETAINING WALL
SCALE NONE

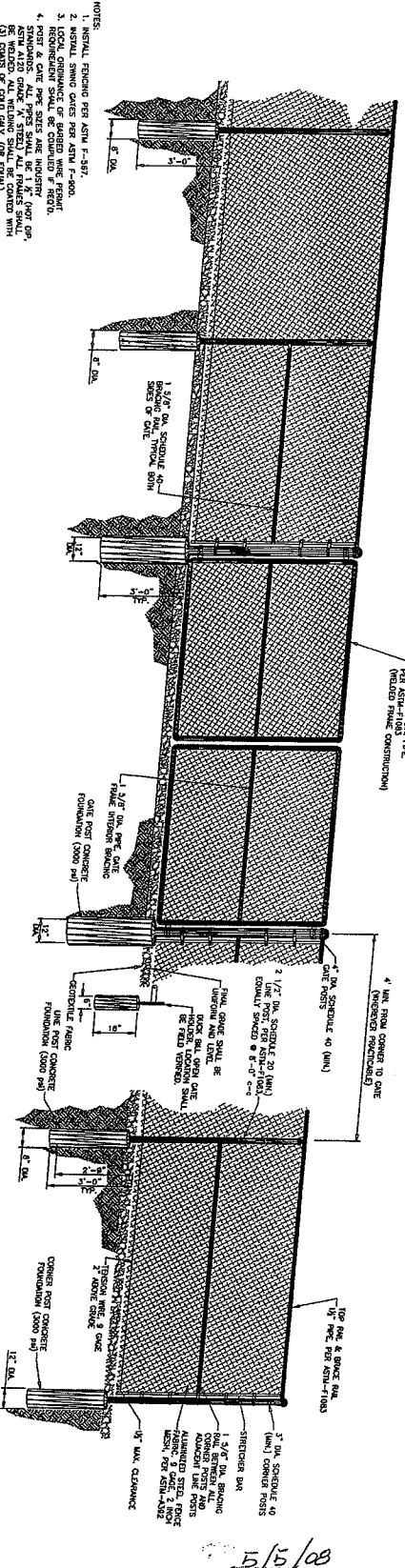


COAX SHROUD DETAIL



COAX CABLE MOUNTING DETAIL

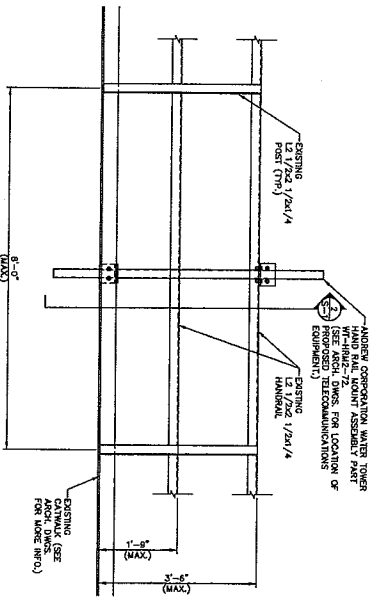
NOTE:
COAX CABLE TO BE MOUNTED TO WATER TANK
LEG WITH BANDING AND BANDING BRACKET.



FENCE DETAIL

- NOTES
1. INITIAL FINISHING PER ASTM F-437.
 2. INITIAL FINISHING PER ASTM F-437.
 3. LOCAL ORDINANCE OR BARBED WIRE FENCE.
 4. POSTS SHALL BE 1\"/>

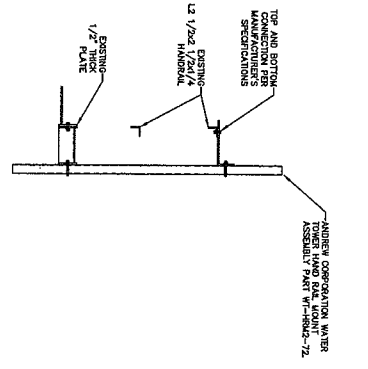
<p>8619 W. Edge View Ave., Suite 619 Chicago, IL 60631</p> <p>cricket communications</p>																																																																																																																																																																																																									
<p>7134 Brookwood Drive Brookfield, OH 44403 Phone: 800-538-3224 Fax: 330-448-4337 www.dynatek.com</p> <p>DOWNER: 6532 DRAWN BY: M.J.W. CHECKED BY: D.C.B.</p>																																																																																																																																																																																																									
<p>Dynatek TELECOMMUNICATIONS SERVICES</p>																																																																																																																																																																																																									
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<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF DYNATEK. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DYNATEK.</p>																																																																																																																																																																																																									
<p>DAVID C. BAUDO 001-017372 LICENSED ARCHITECT STATE OF ILLINOIS</p>																																																																																																																																																																																																									
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ELEVATION
SCALE: NIS
S-1

CONTRACTOR NOTES:

1. CONTRACTOR OF EXISTING MATERIAL IS TO BE RESPONSIBLE FOR THE PROPOSED TELECOMMUNICATIONS CONNECTIONS. CONTRACTOR SHALL FIELD CONSTRUCTION AND FORWARD INFORMATION TO ARCHITECT AS REQUIRED. ALL WORK MUST BE APPROVED IN WRITTEN APPROVAL. PLEASE FORWARD INFORMATION TO: PAUL J. FORD & COMPANY 220 N. BROAD ST., SUITE 1100 ATRM, BOSTON, MASSACHUSETTS PHONE NO. (617) 221-4579 FAX NO. (617) 221-4589



DETAIL
SCALE: NIS
S-2

PAUL J. FORD AND COMPANY HAS ISSUED A STRUCTURAL OPINION LETTER IN CONNECTION WITH THIS PROJECT. THE OPINION LETTER STATES THAT THE PROPOSED DESIGN WILL HAVE A RESIDUAL ASPECT OF THE PRIMARY STRUCTURE THAT HAS NOT BEEN PERMITTED TO REMAIN. THE ARCHITECT HAS NOT BEEN PERMITTED TO REMOVE THE ASPECT OF STRUCTURAL ELEMENTS. CONTRACTOR SHALL FIELD CONSTRUCTION AND FORWARD INFORMATION TO ARCHITECT AS REQUIRED. ALL WORK MUST BE APPROVED IN WRITTEN APPROVAL. PLEASE FORWARD INFORMATION TO: PAUL J. FORD & COMPANY 220 N. BROAD ST., SUITE 1100 ATRM, BOSTON, MASSACHUSETTS PHONE NO. (617) 221-4579 FAX NO. (617) 221-4589



**DOWNERS GROVE, ILLINOIS
EXISTING 120' WATERTANK SITE: ORD-321**

DYNATEK TELECOMMUNICATIONS

1124 BIRMINGHAM DRIVE BIRMINGHAM, OHIO 44113
PH: (680) 838-3224 FAX: (330) 748-4337

PAUL J. FORD AND COMPANY
1124 BIRMINGHAM DRIVE BIRMINGHAM, OHIO 44113
PH: (680) 838-3224 FAX: (330) 748-4337

GENERAL NOTES:

1. THESE DRAWINGS SPECIFY THE USE OF THE BEST ANTENNA MOUNTING COMPONENTS BY THE ANTENNA CORPORATION. CONTACT THE ANTENNA CORPORATION FOR SPECIFICATIONS AND DETAILED RECOMMENDATIONS OF THEIR PRODUCTS TO SUPPORT THE LOADS SHOWN ON THIS DRAWING.
2. CONTRACTOR SHALL RECEIVE IN WRITING THE OWNERS RECOMMENDATIONS FOR TOWER MOUNTINGS. BEFORE TO CONSTRUCTION WITH THE WORK ON THE TOWER, UPON THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE MOUNTING AND CONNECTIONS. THE CONTRACTOR SHALL VERIFY THAT ALL WORK DONE WAS PERFORMED IN ACCORDANCE WITH THE CONTRACTUAL DOCUMENTS AND THE OWNERS WRITTEN RECOMMENDATIONS.
3. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS OR IN THE SPECIFICATIONS, PROJECT, THE CONTRACTOR SHALL VERIFY THE ANTENNA LOADS INDICATED FOR USE ON THIS PROJECT.
4. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS ARE NOT IN ACCORDANCE WITH THESE NOTES, THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZES SHALL BE PROVIDED.
5. ALL DIMENSIONS AND FIELD CONDITIONS SHALL BE SHOWN ON THE ARCHITECTURAL DRAWINGS BY THE CONTRACTOR AND SHALL CONFORM TO WHAT IS SHOWN ON THE ARCHITECTURAL DRAWINGS.
6. THE STRUCTURAL CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONNECTION. THE STRUCTURE IS DESIGNED TO BE STABLE AND SELF-SUPPORTING AT THE COMPLETION OF CONSTRUCTION AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE METHOD OF CONNECTION AND THE QUALITY OF THE CONNECTIONS. THE CONTRACTOR SHALL VERIFY THE QUALITY OF THE CONNECTIONS AND SHALL VERIFY THE QUALITY OF THE CONNECTIONS. THE CONTRACTOR SHALL VERIFY THE QUALITY OF THE CONNECTIONS AND SHALL VERIFY THE QUALITY OF THE CONNECTIONS.
7. ALL MATERIALS AND EQUIPMENT FURNISHED WILL BE NEW AND OF GOOD QUALITY, FREE FROM DEFECTS AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
8. ALL MATERIALS AND EQUIPMENT FURNISHED WILL BE NEW AND OF GOOD QUALITY, FREE FROM DEFECTS AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING MATERIALS AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

GENERAL CODES AND SPECIFICATIONS:
 AISC 7-85 - MANUAL OF STEEL CONSTRUCTION, 13TH EDITION
 AISC 7-85 - MANUAL OF STEEL CONSTRUCTION, 13TH EDITION

GENERAL LOADS:

1. WIND LOADS:
 - BASIC WIND SPEED (3 SECOND GUST) WIND 80 MPH
 - BASIC WIND SPEED WITH 3/4" RAADI ICE WIND 40 MPH
 - WIND SURFACE FACTOR K_z (BLDG CATEGORY III) 1.15
 - WIND EXPOSURE "C"
2. STRUCTURAL STEEL:
 - ANGLES, PLATES, RODS, ETC. ASTM A36
 - STRUCTURAL TUBING: ASTM A500, GRADE B, 48 KSI YIELD STRENGTH
3. ALL CONNECTIONS SHALL BE MADE WITH ASTM A529-B BOLTS TIGHTENED TO SHIP-TIGHT CONVENTION UNLESS OTHERWISE NOTED.
4. DETAIL ALL BOLTED CONNECTIONS AS BEARING TYPE CONNECTIONS WITH THROATERS IN THE SHEAR PLANE UNLESS NOTED OTHERWISE.
5. REMOVE HANGBOLTED STEEL WISHERS CONFORMING TO AAS AND HEX NUTS ON ALL BOLTED CONNECTIONS.
6. ALL STEEL AND CORROSIONING CONNECTIONS DESIGNED TO WITH STAND SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A152 AND AAS RESPECIFICATION.

cricket
communications

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Chicago, IL 60631

Dynatek

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PROJECT NO.: 6552

DATE: 5/1/08

DESIGNED BY: M.T.W.

CHECKED BY: D.C.B.

SUBMITTALS

8	4/22/08	CHG REVISIONS	HTW
7	3/20/08	CHG REVISIONS	HTW
6	2/28/08	REWORK REVISIONS	HTW
5	1/16/08	REWORK REVISIONS	HTW
4	1/2/08	REWORK REVISIONS	HTW
3	11/6/07	REWORK REVISIONS	HTW
2	11/09/07	CONCEPT REVISIONS	HTW

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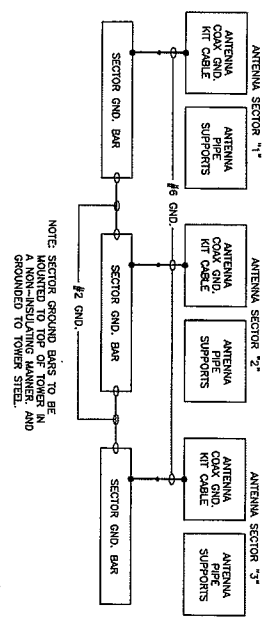
DOWNERS GROVE WT
ORD-321-A

418 DOWNERS GROVE
DOWNERS GROVE, IL 60515

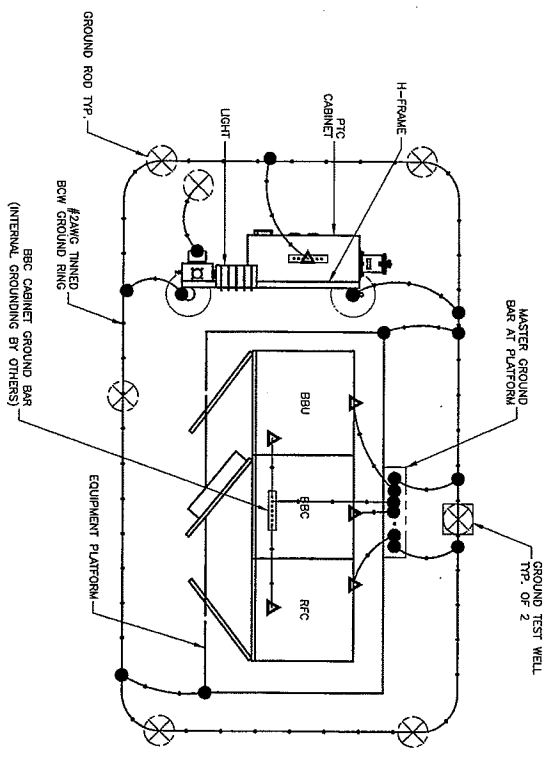
SHEET TITLE:
GROUNDING PLAN & SCHEMATICS

SHEET NUMBER:
E-1

TOP OF TOWER GROUNDING SCHEMATIC



2



GROUNDING PLAN

1

ELECTRICAL SYMBOLS

- ⊗ GROUND ROD WITH ACCESS
- ⊙ KIT GROUND ROD
- ⊠ GROUND ROD
- ⊞ DISCONNECT SWITCH
- ⊞ METER ON METER/BREAKER UNIT
- ⊞ CIRCUIT BREAKER
- ⊞ GENERATOR
- ⊞ MECHANICAL TYPE CONNECTION
- ⊞ CADWELD TYPE CONNECTION
- ⊞ GROUNDING WIRE
- ⊞ CB INTERLOCKING MECHANISM

ABBREVIATIONS

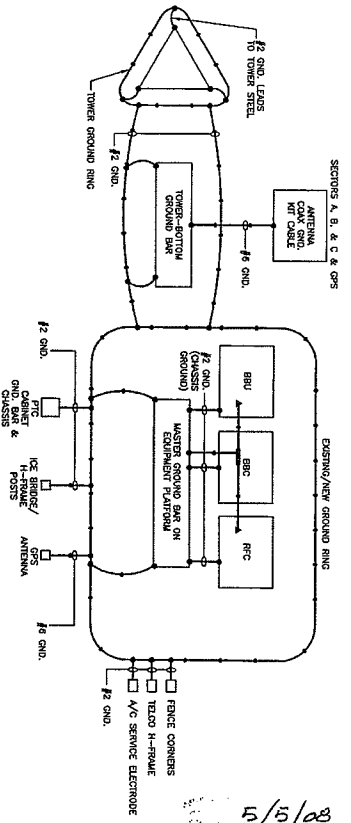
- AWG AMERICAN WIRE GAUGE
- BCTW BARE COPPER TINNED WIRE
- GPS GLOBAL POSITIONING SYSTEM
- PCS PERSONAL COMMUNICATION SYSTEM
- PRC POWER PROTECTION CABINET
- PRV PRIMARY RADIO CABINET
- RACVARY RACEWAY
- TYP. TYPICAL
- RFD RIGID GALVANIZED STEEL
- ELM ELECTRIC METALLIC TUBING
- DNR DINING GROUND RING (HALO)
- INT. ANTENNA CABLE COVER ASSEMBLY
- MSA MASTER ISOLATED GROUND BAR
- CSIG COAX ISOLATED GROUND BAR EXTERNAL
- BTS BASE TRANSMISSION SYSTEM
- GEN GENERATOR
- GR STRANDED INSULATED COPPER WIRE

ABBREVIATIONS & SYMBOLS

1

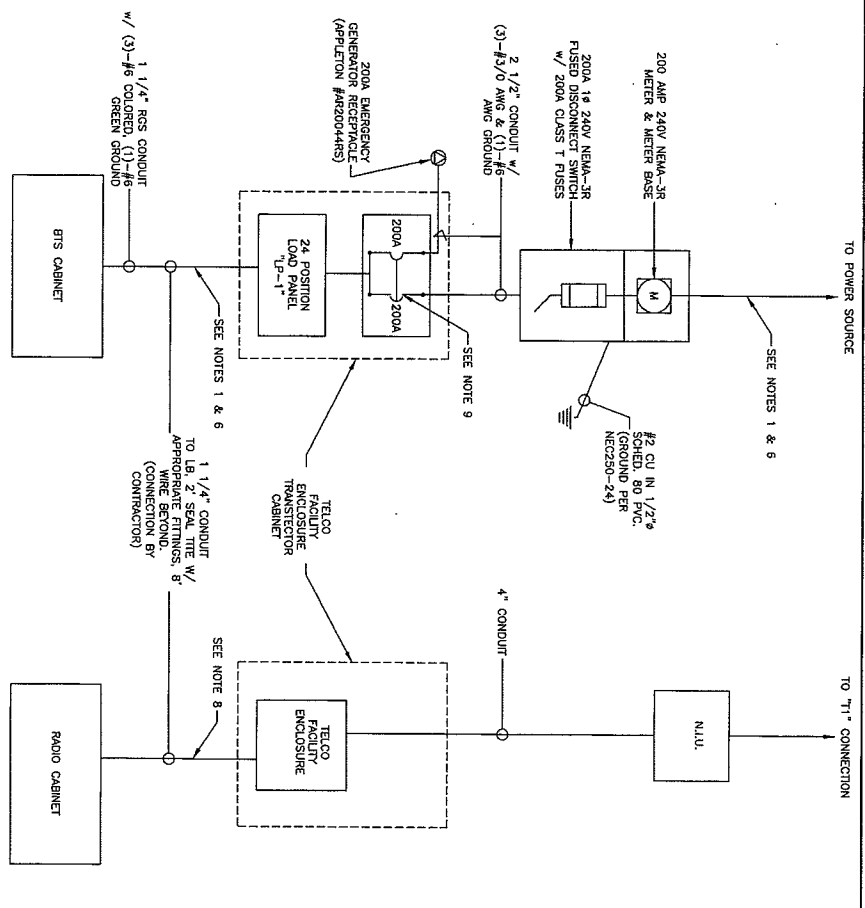
GROUND LEVEL GROUNDING SCHEMATIC (TYP)

2



5/5/08

Expires 11-30-2008
David C. Baucus



- NOTES:
1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL, ELECTRIC CODES AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC.
 2. POWER SERVICES REQUIREMENTS SHALL BE COMMERCIAL AC NOMINAL 120/208 VOLT OR 120/240 VOLT, SINGLE PHASE WITH 200 AMP RATING.
 3. CONTRACTOR SHALL CONTACT LOCAL POWER COMPANY FOR REQUIREMENTS OF T1 SERVICE LINE TO TERMINATE AT THE UTILITY MOUNTING STAND.
 4. CONTRACTOR SHALL PROVIDE METER BASE AND DISCONNECT PANELS PER LOCAL POWER COMPANY SPECIFICATIONS AND REQUIREMENTS. POWER COMPANY SHOULD PROVIDE THE 200 AMP SERVICE.
 5. CRICKET SHALL PROVIDE THE TRANSISTOR POWER CABINET AND TELCO FACILITY ENCLOSURE. CONTRACTOR TO FURNISH AND INSTALL METER BASE, BY THE POWER COMPANY.
 6. UNDERGROUND POWER AND TELCO SERVICE LINES SHALL BE ROUTED IN A COMMON TRENCH AS MUCH AS PRACTICAL. ALL UNDERGROUND CONDUIT SHALL BE RIGID OR INTERMEDIATE METAL OR RIGID NONMETALLIC. CONDUIT EXPOSED ABOVE GROUND SHALL BE RIGID, RIGID NONMETALLIC, INTERMEDIATE OR ALUMINUM. POWER CONDUIT SHALL BE SIZED AS REQUIRED PER CABLE SIZING AND NEC REQUIREMENTS.
 7. ALL TELCO CONDUIT LINES SHALL BE 4" CONDUIT UNLESS NOTED OTHERWISE. 3" MAY BE POSSIBLE ON CO-10 SITES.
 8. ENDS OF CONDUITS ALONG PAD FOR SERVICE TO EQUIPMENT SHALL BE STUBBED AND CAPPED AT 6" ABOVE GRADE. IF SERVICE LINES CAN'T BE INSTALLED INITIALLY, PROVIDE NITLON PULL CORD IN CONDUIT.
 9. THESE TWO BREAKERS ARE INTERLOCKED TO OPERATE AS A TRANSFER SWITCH SUCH THAT ONLY ONE BREAKER SHALL BE IN THE "ON" POSITION AT ANY ONE TIME.
- POWER & TELCO DISTRIBUTION & INTERCONNECTION SINGLE LINE DIAGRAM

1

1. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BIDDING PERIOD SHOULD BE DIRECTED TO THE ARCHITECT. THE SCOPE OF WORK OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH CONTRACT HAS BEEN AWARDED.

2. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO ROUGH-IN.

3. THE CONDUIT RUNS AS SHOWN ON THE PLANS ARE TO BE INSTALLED WITH THE FOLLOWING SCHEDULE:

4. PROTECT PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

5. ALL CONDUITS SHALL BE MET WITH RINGS LAID IN ACCORDANCE WITH NEC TABLE 76E-10. NO RIGHT ANGLE DEVIANCE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MINIMUM INSIDE STRAPS FOR ALL CONDUITS 2" OR LARGER.

6. ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH PLASTIC THROUGH INSULATIONS GROUNDING BUSHINGS.

7. ALL WIRE SHALL BE THE THIN, SOFT, ANNEALED COPPER STRANDED #12 OR LARGER SHALL BE CONDUCTING MINIMUM #12.

8. ALL WIRES SHALL BE TAGGED AT ALL PULL BOXES, J-BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS, ACTION CORDS, BRAD, OR APPROVED EQUIVALENT.

9. ALL NEW MATERIAL SHALL HAVE A UL LABEL.

10. CONDUIT ROUTING SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION TO CONFLICTS. REQUIRED MECHANICAL CONNECTION AND CONFLICT AS REQUIRED.

11. ALL PANEL DISCONNECTS SHALL BE TYPEWRITTEN NOT HAND WRITTEN.

12. INSTALL ALL EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC. THE EQUIPMENT BOXES, PULLBOXES, AND ALL DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.

13. THE CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS, DOCUMENT AND ALL THE WIRING AND CONNECTIONS AND SUBMITTAL COMPLETION.

14. ALL DISCONNECT SWITCHES AND OTHER CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMINATED NAMEPLATES AND PANEL FIELD LOCATIONS PER NEC (90-303.3). SHALL BE ADAPTED BY THE APPLICABLE STATE.

15. ALL ELECTRICAL DEVICES AND INSTALLATIONS OF THE DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMINATED NAMEPLATES AND PANEL FIELD LOCATIONS PER NEC (90-303.3). SHALL BE ADAPTED BY THE APPLICABLE STATE.

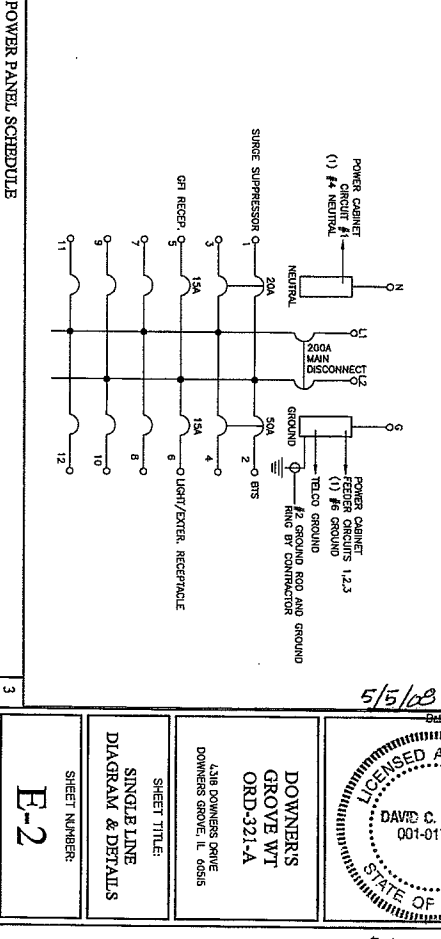
16. PROVIDE CORSE DRILLING AS NECESSARY FOR PENETRATIONS OR RISERS THROUGH BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS THROUGHOUT CONSTRUCTION. PROVIDE APPROX. 1/2" CLEARANCE AROUND ALL PENETRATIONS. PROVIDE ALL PENETRATIONS PACKED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE SHALL PER LOCAL FIRE DEPARTMENT APPROVAL. PROVIDE APPROVED FOR THIS PURPOSE.

17. ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT (NEW AND EXISTING) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION. PROVIDE THE MANUFACTURER DATA FURNISHED ON THE EQUIPMENT TO THE OWNER'S REPRESENTATIVE AT THE TIME OF DESIGN AND SOME BEST AVAILABLE INFORMATION MAY VARY FROM DESIGN AS FURNISHED. PROVIDE APPROVED FOR THIS PURPOSE.

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2

ELECTRICAL NOTES



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Chicago, IL 60651

cricket communications

Dynatek

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www.dynatekcommunications.com

PROJECT NO.: 6552

DESIGNED BY: M.T.W.

CHECKED BY: D.C.B.

SUBMITTALS

1	1/22/08	CITY PERMITS	N/A
2	3/20/08	PERMITS	N/A
3	2/20/08	PERMITS	N/A
4	1/12/08	PERMITS	N/A
5	1/12/08	PERMITS	N/A
6	1/12/08	PERMITS	N/A
7	1/12/08	PERMITS	N/A
8	1/12/08	PERMITS	N/A

STATE OF ILLINOIS

DAVID C. BAUGO

001-017372

ARCHITECT

5/5/08

DOWNER'S

GROVE WT

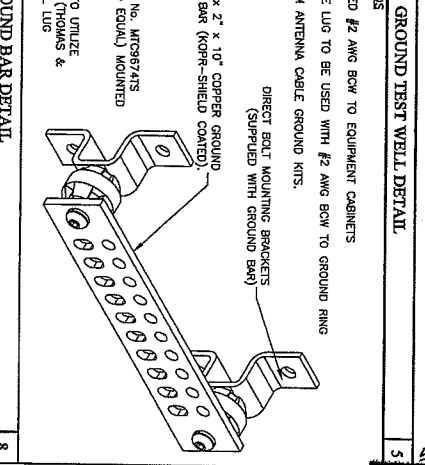
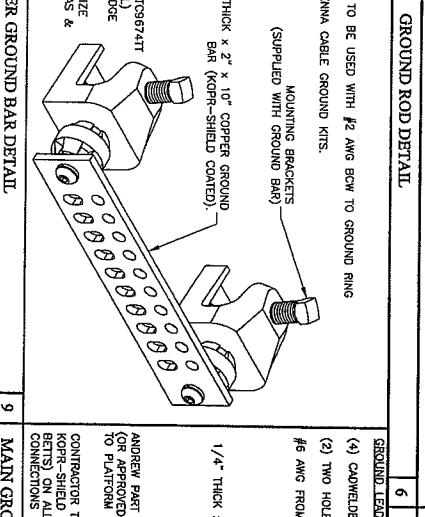
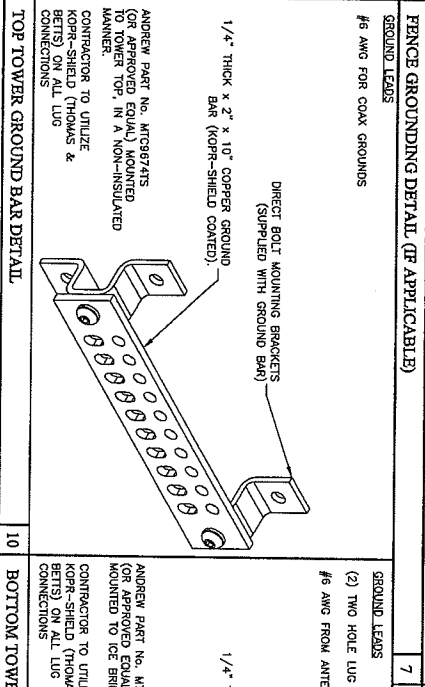
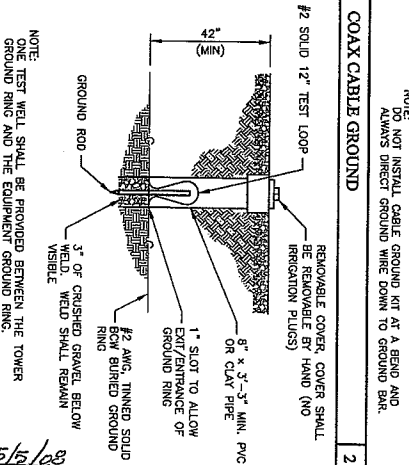
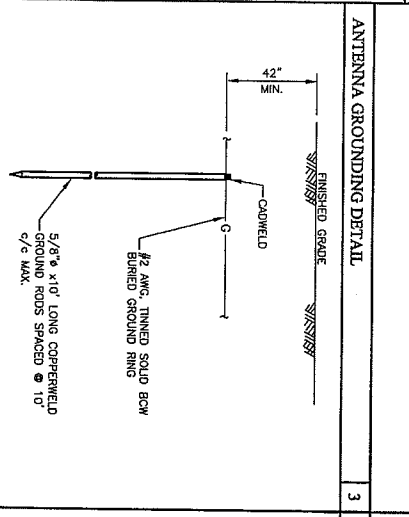
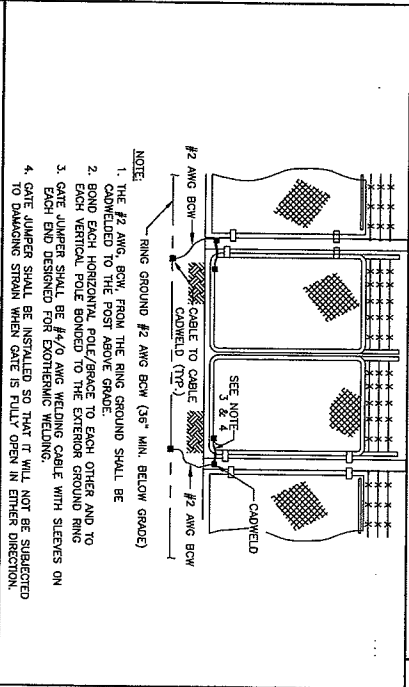
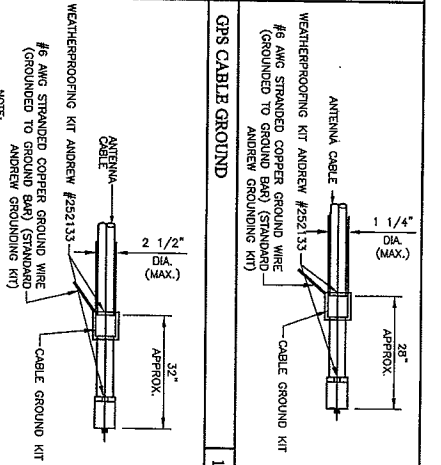
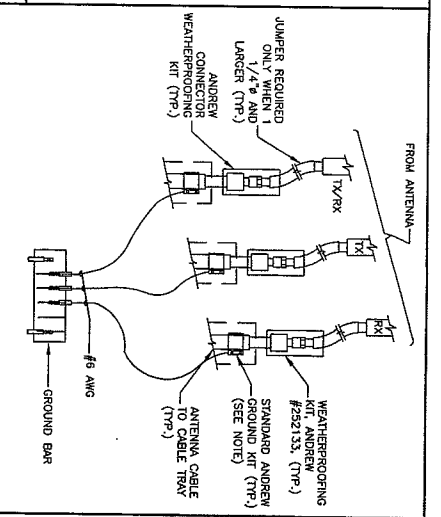
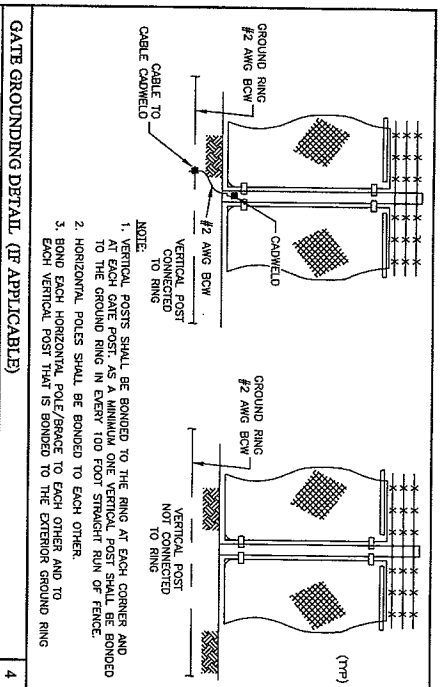
ORD-321-A

7318 DOWNERS DRIVE
DOWNERS GROVE, IL 60555

SHEET TITLE:
SINGLE LINE
DIAGRAM & DETAILS

SHEET NUMBER:
E-2

Expires 11-30-2008
David C. Baugo
Signature



cricket
communications
8619 W. Bryn Mawr Ave.,
Suite 619, Oak Brook,
Illinois 60451

Dynatek
TELECOMMUNICATIONS SERVICES

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Brookfield, IL 60440
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Fax: 312-444-4337
www.dynatek.com

DATE: 6/22/08
DRAWN BY: M.K.W.
CHECKED BY: D.C.B.

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMITS	6/22/08
2	REVISED PER COMMENTS	6/22/08
3	REVISED PER COMMENTS	6/22/08
4	REVISED PER COMMENTS	6/22/08
5	REVISED PER COMMENTS	6/22/08
6	REVISED PER COMMENTS	6/22/08
7	REVISED PER COMMENTS	6/22/08
8	REVISED PER COMMENTS	6/22/08

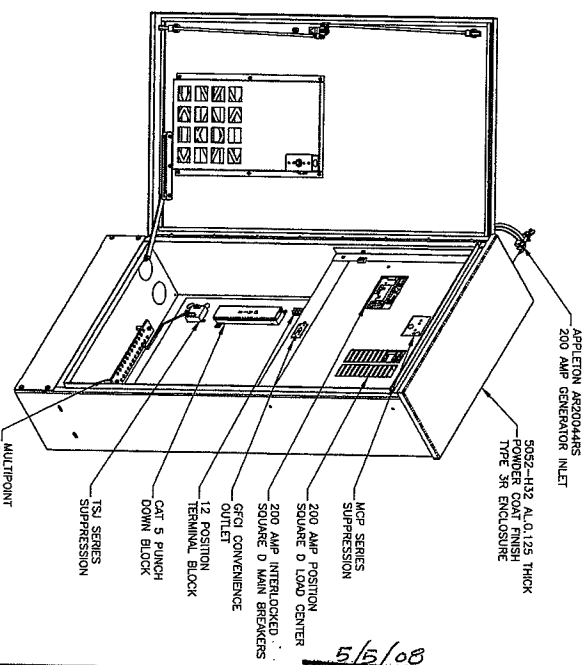
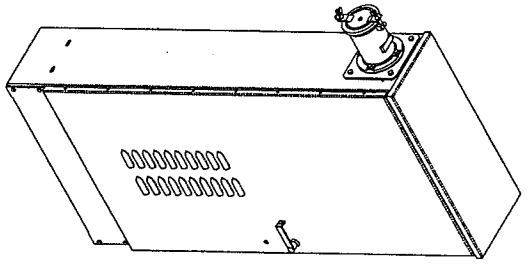
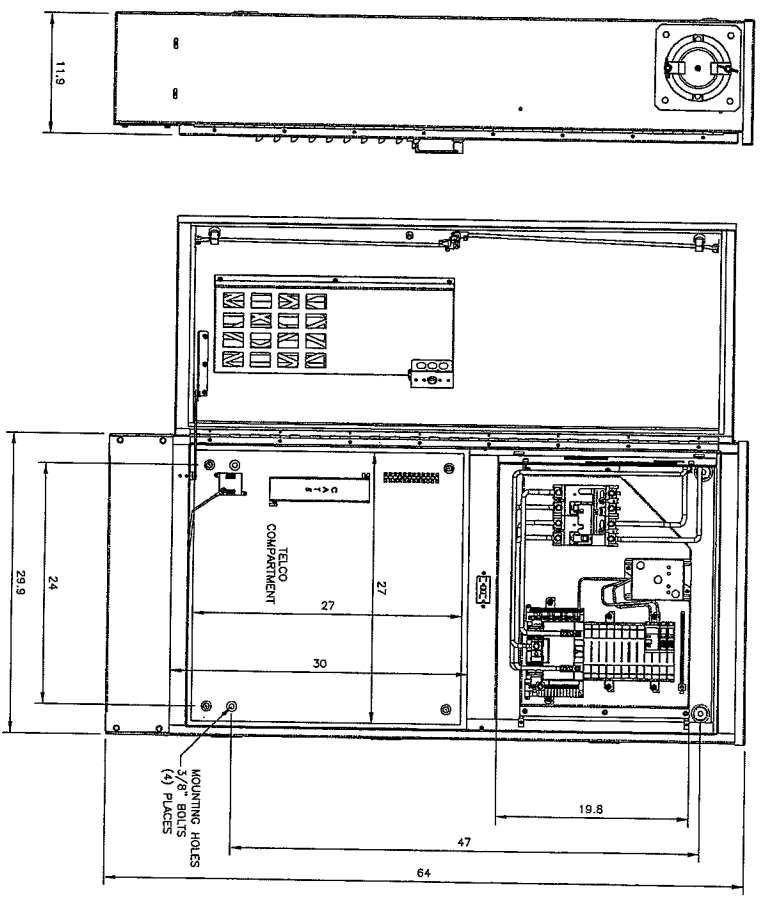
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DAVE C. BAIRD
001-617372
LICENSED ARCHITECT
STATE OF ILLINOIS

OWNER'S
GROVE WT
ORD-321-A
4218 DOWNERS DRIVE
DOWNERS GROVE, IL 60505

SHEET TITLE:
GROUNDING DETAILS
SHEET NUMBER:
E-3

Expires 11-30-2018
Dave C. Baird



SPECIFICATIONS:
 PHYSICAL:
 CABINET TYPE: UL TYPE 3R
 CABINET MATERIAL: 125" 5052-H32 ALUMINUM
 WIRE CONDUIT RACK/BOUNDS @ 2-1/2" CONDUIT
 SIDES - TRADE SIZE (2.97" ACTUAL)
 BOTTOM - 4 @ 2-1/2" CONDUIT TRADE SIZE (2.97" ACTUAL)
 OUTER CABINET DIMENSIONS: 64" X 30" X 12"
 MOUNTING HOLES (BOTTOM): 4 @ 0.44"
 MOUNTING HARDWARE/GASKET INCLUDED
 WEIGHT: APPROXIMATELY 150 LBS. (68 KG)
 POWER CENTER:
 UL LISTED TO UL 891
 SERVICE: 120/240V, 1 PHASE, 200 AMP
 GENERATOR & QUALITY BREAKERS: SQUARE D
 FEATURES: FACE MOUNT MECHANICAL INTERLOCK
 TRANSFER MECHANISM

GENERATOR RECIPIE: 200A APPLETON AR20044RS
 LOAD CENTER: 100 AMP, 24 POSITION SQUARE D, 0.00
 STYLE BRANCH BREAKERS (TSS) INCLUDED
 (1) 15A SINGLE PHASE (GEN) INCLUDED
 (1) 15A VENTILATION FAN INCLUDED
 SUPPRESSION: 120/240V TRANSISTOR MCP1207A-104
 PRIMARY TECHNOLOGY: SILICON AVALANCHE SUPPRESSOR
 SECONDARY TECHNOLOGY: METAL OXIDE VARISTORS (MOV)
 IECQ GENIUS:
 GROUND 12 POSITION MASTER COPPER GROUND BAR
 RECEPTACLE: NOMINAL 3/4" COX GRADE PLYWOOD
 TERMINAL STRIP: 12 POSITION
 PUNCH DOWN BLOCK: 66 POSITION, CAT 5
 SUPPRESSION: (1) TRANSISTOR SYSTEMS TSI-48-CIT
 TECHNOLOGY: SILICON AVALANCHE SUPPRESSOR DIODES
 (3ASD) (UL 497A)

OVER/UNDER CABINET 6430 OUTDOOR AS MANUF. BY TRANSISTOR SYSTEMS, INC.

cricket
 communications

3619 W. Boyl Mower Ave.,
 Suite 613
 Chicago, IL 60661

Dynatek
 TELECOMMUNICATIONS SERVICES

7134 Brookwood Drive
 Brookfield, OH 44003
 Phone: 800-838-3224
 Fax: 330-448-4337
 www.dynatek.com

DRAWN BY: M.T.V.
 CHECKED BY: D.C.B.

NO.	DATE	DESCRIPTION
1	4/22/08	CIT REVISIONS
2	5/20/08	CIT REVISIONS
3	7/26/08	REWORK REVISIONS
4	11/14/08	REWORK REVISIONS
5	1/29/08	REWORK REVISIONS
6	11/05/07	REWORK REVISIONS
7	11/05/07	CONCEPT REVISIONS

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STATE OF ILLINOIS
 LICENSED ARCHITECT
 DAVID C. BAUDO
 001-017372

OWNER'S
 GROVE WT
 ORD-321-A

218 DOWNERS DRIVE
 DOWNERS GROVE, IL 60515

SHEET TITLE:
 POWER/TELECO CABINET
 DETAILS

SHEET NUMBER:
 E-4

Expires 11-30-2010
 David C. Baudo

IMPORTANT NOTE:

THE CONTRACTOR MUST PROVIDE CLOSE-OUT DOCUMENTS AT THE FINAL INSPECTION AND BEFORE PAYMENTS WILL BE MADE. ANY SINKAGE CAUSED BY POOR COMPACTION WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS AND SPECIFICATIONS, AND LOCAL, NATIONAL AND UTILITY COMPANIES SPECIFICATIONS, AND SOCIAL, MANUFACTURING AND OTHER REGULATIONS 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 THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS HEREBY CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) CRICKET'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK.
4. THE SCOPE OF WORK SHALL INCLUDE FINISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED THEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE BEGINNING OF THE WORKING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VEHICLE'S SPECIFICATIONS UNLESS OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL MAINTAIN A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS 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 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 WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, UTILITIES, PAVING, CURBS, ETC. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITIES OCCURRED 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 WASTE MATERIALS AND DEBRIS. ALL MATERIALS TO BE REMOVED AS REMAINING ON THE PROPERTY. PRESENTLY, THERE IS NO SCHEDULED CLEAN CONDITION AND FREE FORMAL PLAIN SPOTS, DUST OR SANDERS OF ANY KIND.
13. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE APPLICABLE BUILDING AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE CONTRACTOR SHALL NOTIFY CRICKET'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE PROJECT IN CONFLICT WITH CRICKET'S REPRESENTATIVE UNLESS CRICKET'S REPRESENTATIVE IS RESOLVED BY CRICKET'S REPRESENTATIVE.

15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.

16. THE CONTRACTOR SHALL NOTIFY THE PE ENGINEER FOR ANTENNA AZIMUTH VERIFICATION (DURING ANTENNA INSTALLATION) PRIOR TO COORDINATING THE SITE SWEEEPING.
17. THE CONTRACTOR SHALL SUBMIT, AT THE END OF THE PROJECT A COMPLETE SET OF AS-BUILT DRAWINGS TO CRICKET'S PROJECT MANAGER.

SITE WORK AND DRAINAGE

- 1.01 EARTHWORK, EXCAVATION, AND GRADING
- 1.02 PART 1 GENERAL
- 1.03 WORK INCLUDED, REFER TO SURVEY AND SITE PLAN FOR WORK INCLUDED.
- 1.04 RELATED WORK

A. CONSTRUCTION OF EQUIPMENT FOUNDATIONS

- 1.03 DESCRIPTIONS

- A. ACCESS ROAD, TURFAROUND AREAS AND SITES ARE CONSTRUCTED TO PROVIDE PROPER DRAINAGE MAINTENANCE. EVEN SURFACE FOR MATERIAL AND EQUIPMENT DELIVERIES AND MAINTENANCE PERSONNEL ACCESS.

1.04 QUALITY ASSURANCE

- A. APPLY SOIL STABILIZER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION (USE AS NEEDED).
- B. VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT WILL BE PLACED AND MAINTAINED AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.
- 1.05 SEQUENCING
- A. CONTRACTOR IS RESPONSIBLE FOR LAYOUT AND CONSTRUCTION STAKING.
- B. GRUB THE COMPLETE ROAD AND SITE AREA PRIOR TO FOUNDATION CONSTRUCTION OR PLACEMENT OF BACKFILL OR SUB-BASE MATERIAL.
- C. CONSTRUCT TEMPORARY CONSTRUCTION ZONE ALONG ACCESS DRIVE.
- D. THE SITE AREA WILL BE BROUGHT TO SUB-BASE COURSE ELEVATION AND THE ACCESS ROAD TO BASE COURSE ELEVATION PRIOR TO FORMING FOUNDATIONS.
- E. APPLY SILT STABILIZER PRIOR TO PLACING BASE MATERIALS.
- F. IF REQUIRED, GRADE, SEED, FERTILIZE AND MULCH DISTURBED AREAS IMMEDIATELY AFTER BRINGING THE SITE AND ACCESS ROAD TO BASE ELEVATION. WATER TO ENSURE GROWTH.
- G. REMOVE EXCESS GRAVEL FROM TEMPORARY CONSTRUCTION ZONE.
- H. AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STABILIZER TO THE STONE SURFACES.

1.06 SUBMITTALS

- A. BEFORE CONSTRUCTION
 1. IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT TWO COPIES OF THE LANDSCAPING PLAN UNDER NURSERY LETTERHEAD PREPARED USING OF PROPOSED COSTS UNDER NURSERY LETTERHEAD (REFER TO SITE PLAN FOR LANDSCAPING REQUIREMENT).
 2. SUBMIT FOR APPROVAL 1/2 CUBIC FOOT OF THE PROPOSED SURFACE COURSE MATERIAL.
 3. LANDSCAPING WARRANTY STATEMENT, IF REQUIRED.
- PART 2 PRODUCTS
- 2.01 MATERIALS
- A. ROAD AND SITE MATERIALS: FILL MATERIAL SHALL BE ACCEPTABLE. SELECT FILL SHALL BE IN ACCORDANCE WITH LOCAL DEPARTMENT OF HIGHWAY AND PUBLIC TRANSPORTATION STANDARD SPECIFICATIONS.
- B. SOIL STABILIZER SHALL BE EPA REGISTERED OF LIQUID COMPOSITION AND OF PRE-EMERGENCE DESIGN.

- C. SOIL STABILIZER FABRIC SHALL BE MINKAH OR EQUAL - 500K AT ACCESS ROAD AND SOAK AT CONFOUND.
- D. GRAVEL FILL: WELL GRADED, HARD, DURABLE, NATURAL SAND AND GRAVEL FREE FROM ICE AND SNOW, ROOTS, SOIL RUBBISH, AND OTHER FOREIGN MATERIALS. MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS.

U.S. SIEVE NO.	% PASSING BY WEIGHT
100	100
40	50-55
20	30-40
10-30	10-30
5-20	5-20
0-8	0-8

GRAVEL FILL TO BE PLACED IN LIFTS OF 9" MAXIMUM THICKNESS AND COMPACTED TO 95% DENSITY.

2.02 EQUIPMENT

- A. GROUND COMPACTOR SHALL BE ACCOMPANIED BY MECHANICAL MEANS, SUCH AS ROLLERS, TO BE USED TO COMPACT FILL TO THE REQUIRED DENSITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER USE OF EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER USE OF EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER USE OF EQUIPMENT.
- B. PRIOR TO OTHER EXCAVATION AND CONSTRUCTION EFFORTS GRUB ORGANIC MATERIAL TO A MINIMUM OF 6" BELOW ORIGINAL GROUND LEVEL.
- C. UNLESS OTHERWISE INSTRUCTED BY CRICKET COM, REMOVE TREES, LIMBS, LIMBS, LIMBS FROM THE PROPERTY TO AN AUTHORIZED DISPOSAL LOCATION.
- D. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL WHERE UNDESIRABLE SOIL CONDITIONS ARE ENCOUNTERED. LINE THE GRUBBED AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.

3.03 INSTALLATION

- A. THE SITE AND TURFAROUND AREAS SHALL BE AT THE SUB-BASE COURSE ELEVATION PRIOR TO FORMING FOUNDATIONS. PRIOR TO FILL THE SITE AND ACCESS ROAD AS REQUIRED TO PROVIDE PROPER DRAINAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATIONS. THE RESULTING GRADE SHALL BE CORRECTED AND SHD FINISHED GRADES OR SLOPES INDICATED.
- B. CLEAR EXCESS SPILLS, IF ANY, FROM JOB SITE AND DO NOT SPREAD BEYOND THE LIMITS OF CRICKET INC. LEASE PROPERTY. UNLESS AUTHORIZED BY PROJECT MANAGER.
- C. THE ACCESS ROAD SHALL BE BROUGHT TO BASE COURSE ELEVATION PRIOR TO FOUNDATION CONSTRUCTION.
- D. DO NOT CREATE DEPRESSIONS WHERE WATER MAY POOL.
- E. THE CONTRACTOR INCLUDES ALL NECESSARY GRADING, BANKING, DITCHING AND COMPLETE SURFACE COURSE FOR ACCESS ROAD, ALL ROADS OR ROUTES UTILIZED FOR ACCESS TO PUBLIC THOROUGHFARE IS INCLUDED IN SCOPE OF WORK UNLESS OTHERWISE INDICATED.
- F. WHEN IMPROVING AN EXISTING ACCESS ROAD, GRADE THE SURFACE BEFORE PLACING FILL OR STONE.
- G. PLACE FILL OR STONE IN 3" MAXIMUM LIFTS AND COMPACT BEFORE PLACING NEXT LIFT.
- H. THE FINISH GRADE, INCLUDING TOP SURFACE COURSE, SHALL EXCEED A MINIMUM OF 12" BELOW THE SITE FENCE AND SHALL COVER THE AREA AS INDICATED.
- I. RIPRAP SHALL BE APPLIED TO THE SIDE SLOPES OF ALL EXPOSED AREAS, PARKING AREAS AND TO ALL OTHER SLOPES GREATER THAN 2:1.
- J. RIPRAP SHALL BE APPLIED TO THE SIDES OF DITCHES OR DRAINAGE SWALES AS INDICATED ON PLANS.
- K. PREPARE ENTIRE DITCH FOR 6"-0" IN ALL DIRECTIONS AT CURVEV ENDMENTS.
- L. SEED, FERTILIZER AND STRAW COVER SHALL BE APPLIED TO ALL OTHER DISTURBED AREAS AND DITCHES, DRAINAGE SWALES, NOT OTHERWISE INDICATED.
- M. UNDER NO CIRCUMSTANCES SHALL DITCHES, SWALES OR STRANDS BE PLACED SO THEY DIRECT WATER TOWARDS, OR PERMIT STANDING WATER IMMEDIATELY ADJACENT TO SITE. IF OWNER DESIGN OR OTHER REQUIREMENTS CONFLICT WITH THIS GUIDANCE, ADVISE THE OWNER IMMEDIATELY.

cricket communications

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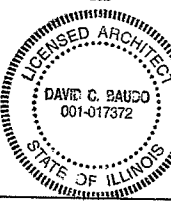
PROJECT NO: 6433

DRAWN BY: M.T.W.

CHECKED BY: D.C.H.

NO.	DATE	DESCRIPTION	BY
1	12/20/08	CONTRACT REVISIONS	M.T.W.
2	12/20/08	CONTRACT REVISIONS	M.T.W.
3	12/20/08	CONTRACT REVISIONS	M.T.W.
4	12/20/08	CONTRACT REVISIONS	M.T.W.
5	11/14/08	CONTRACT REVISIONS	M.T.W.
6	12/26/08	CONTRACT REVISIONS	M.T.W.
7	11/19/07	CONTRACT REVISIONS	M.T.W.
8	11/09/07	CONTRACT REVISIONS	M.T.W.

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SHEET TITLE:
GENERAL NOTIS

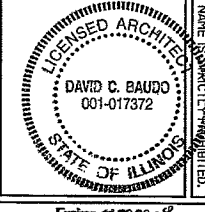
SHEET NUMBER:
GN-1

Expires 11-30-2008
David Baucó

- 2.03 CURING COMPOUND: ASTM C309, TYPE 1, CLASS B; TRANSUCENT.
- 2.04 ACCESSORIES
 - A. NONSPRINK GROUT: PREPARED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCER AND PLASTICIZING AGENTS; CAPABLE OF DEVELOPING MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI IN 28 DAYS.
 - B. JOINT FILLERS BITUMINOUS TYPE, ASTM D1751 OR NON-BITUMINOUS TYPE, ASTM D1752.
 - C. ANCHOR BOLTS: ASTM A307, UNRIPED.
- 2.05 CONCRETE MIX
 - A. CONCRETE SHALL BE PROPORTIONED FOR WORKABILITY, MAXIMUM DRINKING WATER, AND DURABILITY REQUIREMENTS IN ACCORDANCE WITH DESIGN SPECIFICATIONS AND TEST PROCEDURES. CONCRETE FURNISHED MAY BE A COMMERCIAL READY-MIX PROVIDED THAT DELIVERY TO THE PLACING LOCATION IS SATISFACTORILY ESTABLISHED. MATERIALS SHALL NOT EXCEED MORE THAN 45 MINUTES AFTER ADDITION OF WATER TO THE MIX. SLUMP OR DELIVERED CONCRETE SHALL NOT EXCEED 5".
 - B. THE FOLLOWING STRENGTHS SHALL BE USED:
 - 1. FENCE POSTS FOUNDATIONS - DESIGN COMPRESSIVE STRENGTH AT 28 DAYS OF 2,000 PSI.
 - 2. EQUIPMENT FOUNDATIONS - DESIGN COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 PSI.
 - 3. ALL OTHER CONCRETE NOT SPECIFIED - DESIGN COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI.
 - 4. CONCRETE SPECIFICATION FOR MONOROLE OR TOWER FOUNDATION SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS.
 - C. USE ACCELERATING AD MIXTURES IN COLD WEATHER ONLY WHEN PREPARED BY A QUALIFIED PROFESSIONAL ENGINEER. ALL MIXTURES WILL NOT RELAX COLD WEATHER PLACEMENT REQUIREMENTS.
 - D. USE SET-RETARDING AD MIXTURES DURING HOT WEATHER ONLY WHEN APPROVED BY THE ENGINEER.
 - E. ADD AIR ENTRAINING AGENT TO CONCRETE MIX FOR CONCRETE WORK SUBJECT TO OR EXPOSED TO EXTREME.
- 3.01 INSPECTION
 - A. THE CONTRACTOR SHALL VERIFY ANCHORS, SEALS, PENETRATIONS, REPAIRS AND ANY OTHER DEFICIENCIES. ALL DEFICIENCIES IN CONCRETE ARE ACCURATELY PLACED, HEID SECURELY, AND SHALL NOT CAUSE HANDSHP IN PLACING CONCRETE.
- 3.02 PREPARATION
 - A. THE CONTRACTOR SHALL PREPARE PREVIOUSLY PLACED CONCRETE BY CLEANING WITH STEEL BRUSH AND APPLYING BONDING AGENT. APPLY BONDING AGENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 3.03 PLAYING CONCRETE
 - A. THE ENGINEER SHALL BE NOTIFIED NOT LESS THAN 72 HOURS IN ADVANCE OF THE PLACEMENT OF CONCRETE. INSPECTION IS WAIVED IN EACH CASE UNLESS THE ENGINEER IN WRITING REQUESTS IT IN THE PRESENCE OF THE ENGINEER.
 - B. CONCRETE SHALL NOT BE PLACED UNTIL ALL FORMWORK, EMBEDDED FORMWORK, AND JOINTS ARE PROPERLY PREPARED. ALL JOINTS INVOLVED IN THE PLACING HAVE BEEN APPROVED, AND UNTIL FACILITIES ACCEPTABLE TO THE CRICKET REPRESENTATIVE HAVE BEEN PROVIDED AND MADE READY FOR ACCOMPISHMENT OF THE WORK AS SPECIFIED. ALL DEFICIENCIES MUST BE REPAIRED FOR ACCEPTANCE. ALL DEFICIENCIES MUST BE APPROVED AND TESTED FOR ACCEPTANCE. FINAL INSPECTION AND GIVEN APPROVAL TO START PLACEMENT TESTING.
 - B. PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301.
 - C. THE CONTRACTOR SHALL ENSURE THAT REINFORCEMENT BARS, EMBEDDED PARTS, FORMED JOINTS AND JOINT BARRIERS ARE NOT DISTURBED DURING CONCRETE PLACEMENT.
- 3.04 SURFACE FINISHES
 - A. SURFACES AGAINST WHICH BACKFILL OR CONCRETE SHALL BE PLACED REQUIRE NO TREATMENT EXCEPT REPAIR OF DEFECTIVE AREAS.

- 3.05 SURFACES THAT WILL BE PERMANENTLY EXPOSED SHALL BE FINISHED TO A SMOOTH AND FINISHED SURFACE WITH THE FLING OF HOLES AND OTHER IRREGULARITIES WITH DRY PACK GROUT, OR BY SACKING WITH UTILITY OR ORDINARY GROUT.
 - C. SURFACES THAT WOULD NORMALLY BE LEVEL AND WHICH WILL BE PERMANENTLY EXPOSED SHALL BE FINISHED TO A SMOOTH AND FINISHED SURFACE WITH THE FLING OF HOLES AND OTHER IRREGULARITIES WITH DRY PACK GROUT, OR BY SACKING WITH UTILITY OR ORDINARY GROUT. WALLS, CURBS, AND PARAPETS SHALL BE SLOPED APPROXIMATELY 1/4 FT. HORIZONTAL PER FOOT.
 - D. SURFACES THAT WILL BE COVERED BY BACKFILL OR CONCRETE SHALL BE SMOOTH FINISHED.
 - E. EXPOSED SLAB SURFACES SHALL BE CONSOLIDATED, SCREENED, FLOATED, AND STEEL TROWELED. HAND OR POWER-DRIVEN EQUIPMENT SHALL NOT BE USED TO FINISH SURFACES. FINISHING OPERATIONS, INCLUDING FLOATING, SHALL BE CONTINUED TO THE MINIMUM TIME REQUIRED TO PRODUCE A SURFACE UNIFORM IN TEXTURE AND FREE FROM SEGREGATED MARKS OR OTHER IMPERFECTIONS. THE FINAL FINISH SHALL BE SMOOTH AND FINISHED TO A SMOOTH AND FINISHED SURFACE. STEEL TROWELING SHALL COMMENCE ONLY AFTER THE SURFACES TO BE FINISHED HAVE BEEN BROUGHT TO CORRECT ELEVATION AND ALL SURFACE IMPERFECTIONS CORRECTED, AND SHALL BE CONTINUED ONLY AFTER THE SURFACE IS SMOOTH AND UNIFORM IN TEXTURE. FINISHING OPERATIONS SHALL BE CONTINUED UNTIL THE FINISHING OPERATIONS IT SHALL BE REMOVED BY SPRINGING. FINISHING SHALL BE JINED AND PERFORMED SO THAT EXTRA WATER NEEDED NOT BE APPLIED TO THE SURFACE BEING TROWELED.
- 3.06 DEFECTIVE CONCRETE
 - A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON REMOVAL OF THE FORMS TO OBSERVE CONCRETE SURFACE CONDITIONS. ALL DEFECTS SHALL BE REPAIRED ACCORDING TO THE ENGINEER'S DIRECTION.
- 3.07 PROTECTION
 - A. IMMEDIATELY AFTER PLACEMENT, THE CONTRACTOR SHALL PROTECT THE CONCRETE FROM PREMATURAL DRYING, EXCESSIVE HOT SHADY TEMPERATURES, AND MECHANICAL INJURY. FINISHED WORK SHALL BE PROTECTED.
 - B. CONCRETE SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.
 - C. ALL CONCRETE SHALL BE WATER CURED BY CONTINUOUS (NOT PERIODIC) FINE MIST SPRAYING OR SPRINKLING ALL EXPOSED SURFACES. WATER SHALL BE CLEAN AND FREE FROM OIL, ALKALI, SALT, OIL, SAND, OR OTHER CONTAMINANTS. SUCCESSFUL CURING SHALL BE MAINTAINED UNTIL THE CONCRETE HAS GAINED SUFFICIENT PRESSURE IN PILES WITH ALL NECESSARY APPLIANCES OF HOSE, SPRINKLERS, AND SPRAYING DEVICES.
- 3.08 METALS
 - A. PART 1 - GENERAL
 - 1.01 WORK INCLUDED
 - A. THE WORK CONSISTS OF THE FABRICATION AND INSTALLATION OF ALL METALS, INCLUDING THE FABRICATION AND INSTALLATION OF GENERAL METALS, INCLUDING THE FABRICATION AND INSTALLATION OF STEEL FRAMING INCLUDING BEAMS, ANGLES, CHANNELS AND PLATES.
 - 2. WELDING AND BOLTING OF ATTACHMENTS.
 - 1.02 REFERENCE STANDARDS
 - A. THE WORK SHALL CONFORM TO THE CODES AND STANDARDS OF THE FOLLOWING AGENCIES AS FURTHER SIGHTED HEREIN.
 - 1. ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS, 196 RACE STREET, PHILADELPHIA, PA 19103, USA AS PUBLISHED IN "COMPILATION OF ASTM STANDARDS IN BUILDING CODES."
 - 2. AWS - AMERICAN WELDING SOCIETY INC., 2501 NW 7TH STREET, MIAMI, FL 33125 USA AS PUBLISHED IN "CODE FOR STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES." SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 - B. PART 2 - PRODUCTS
 - 2.01 MATERIALS
 - A. STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A36 AND A50 FOR STRUCTURAL STEEL.
 - 2.02 WELDING
 - A. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS. CERTIFICATION DOCUMENTS SHALL BE MADE AVAILABLE FOR ENGINEER'S AND/OR OWNER'S REVIEW IF REQUESTED.
 - B. WELDING ELECTRODES FOR MANUAL, SHIELDED METAL ARC WELDING SHALL CONFORM TO ASTM E-233, E70 SERIES, BARE ELECTRODES AND GRANULAR FLUX USED IN THE SUBMERGED ARC WELDING PROCESS SHALL CONFORM TO AISC SPECIFICATIONS.
 - C. FIELD WELDING SHALL BE DONE AS PER AWS/D1.1 REQUIREMENTS. VISUAL INSPECTION IS ACCEPTABLE.
 - D. STUD WELDING SHALL BE ACCOMPLISHED BY CAPACITOR DISCHARGE (CD) WELDING TECHNIQUE USING HURKST FASTENERS, INC. CD30 CAPACITOR DISCHARGE STUD WELDER OR EQUIV.
 - 2.03 REMOVE STUD PATENTERS OF MATERIALS AND SIZES SHOWN ON DRAWINGS. ALL MATERIALS TO BE SUPPLIED BY THE MANUFACTURER FOR STRUCTURAL LOADINGS REQUIRED.
 - 2.3 FOLLOW MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS TO PROPERLY SELECT AND INSTALL STUD WELDS.
 - 2.03 BOLTING
 - A. BOLTS SHALL BE 3/4" (MINIMUM) CONFORMING TO ASTM A325, TYPE 1, OR EQUIV. OR ALLUMINUM OR ASTM A193, NUTS SHALL BE HEAVY HEX TYPE.
 - B. ALL BOLTS SHALL BE INSTALLED IN SLIP CRITICAL CONNECTIONS CONFORMING TO AISC METHOD, CONFORMING TO THE 1/4 TURN METHOD.
 - 2.04 FABRICATION
 - A. FABRICATION OF STEEL SHALL CONFORM TO THE AISC AND AWS STANDARDS AND CODES.
 - 2.05 FINISH
 - A. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
 - 2.06 PROTECTION
 - A. USE OF COMPLETION OF ERECTION INSPECT ALL GALVANIZED SURFACES AND TOUCH UP ALL DEFECTS AND OMISSIONS.
 - B. GALVANIZED SURFACES SHALL BE PAINTED WITH ZINC BASED PAINT, COLOR TO MATCH THE GALVANIZING PROCESS.
 - 3.01 ERECTION OF STEEL
 - A. PROVIDE ALL ERECTION EQUIPMENT, BRACING, PLANKING, FIELD BOLTS, NUTS, WASHERS, DRIFT PINS, AND SIMILAR MATERIALS WHICH ARE NECESSARY FOR ITS PROPER ERECTION.
 - B. ERECT AND ANCHOR ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS TO THE CONSTRUCTION OF THE BUILDING.
 - C. TEMPORARY BRACING, GUYING, AND SUPPORT SHALL BE PROVIDED TO KEEP THE STRUCTURE UPRIGHT AND STABLE DURING CONSTRUCTION, AND TO PREVENT DANGER TO PERSONS AND PROPERTY. CHECK ALL TEMPORARY LOADS AND STAY WITHIN SAFE CAPACITY OF ALL BUILDING COMPONENTS.
 - D. SPECIAL CONSTRUCTION
 - ANTENNA INSTALLATION
 - PART 1 - GENERAL
 - 1.01 WORK INCLUDED
 - A. ANTENNAS AND COAXIAL CABLES ARE FURNISHED BY CRICKET UNDER SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST WITH THE INSTALLATION OF ANTENNAS IN ACCORDANCE WITH THE ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND FOR THE ERECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ERECTION. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE ERECTION.
 - B. INSTALLED ANTENNAS AS INDICATED ON DRAWINGS AND CRICKET COM. SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAREHOUSE AS INDICATED ON DRAWINGS.

5/15/08



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| DRAWN BY: M.T.W.
CHECKED BY: D.C.B. | DATE: 6/26
DATE: 6/26 |
| SUBMITTALS
1. 1/22/08 CRR Reviews THT
2. 1/22/08 CRR Reviews THT
3. 1/22/08 Review Reviews THT
4. 1/22/08 Review Reviews THT
5. 1/22/08 Review Reviews THT
6. 1/22/07 CRR Review THT | |

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418 DOWNERS GROVE
 DOWNERS GROVE, IL 60515

SHEET TITLE:
 GENERAL NOTES
 SHEET NUMBER:
GN-3

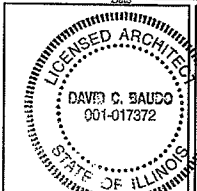
Expires 11-30-2008
 David J. Baudo
 Signature

- E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SHEEP TEST UNDER HEWLETT-PACKARD 87138 RF SIGNAL NETWORK ANALYZER TO DETERMINE THE FREQUENCY DOMAIN REFLECTOMETER (FDR) TEST RESULTS TO THE PROJECT MANAGER. TESTING SHALL BE PERFORMED BY AN INDIVIDUAL WHO HAS BEEN TRAINED AND IS BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
- F. INSTALL COAXIAL CABLES AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ANTENNAS AND EQUIPMENT SHALL BE MOUNTED ON THE ANTENNA AND ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ANTENNAS AND COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY POINT LOCATION UNLESS OTHERWISE STATED.
- G. ANTENNA AND COAXIAL CABLE GROUNDING:
 1. ALL EXTERIOR #6 GREEN GROUND WIRE DASTY CHAIN CONNECTORS ARE TO BE WEATHER SEALED WITH ANDREWS CONNECTOR/SPLICE WEATHERPROOFING KIT TYPE 3221213 OR EQUIVALENT.
 2. ALL COAXIAL CABLE GROUNDING KITS (NOT WITHIN BENDS).
 3. ALL RELATED WORK
- 1.02 RELATED WORK
 1. FLASHING OF OPENING INTO OUTSIDE WALLS.
 2. SEALING AND CALLING ALL OPENINGS.
 3. PAINTING.
 4. CUTTING AND PATCHING.
- 1.03 REQUIREMENTS OF REGULATOR AGENCIES
 - A. FURNISH UL LISTED EQUIPMENT WHERE SUCH LABEL IS AVAILABLE. INSTALL IN CONFORMANCE WITH UL STANDARDS WHERE APPLICABLE.
 - B. INSTALL ANTENNA, ANTENNA CABLES, GROUNDING SYSTEM IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS IN EFFECT AT PROJECT LOCATION AND RECOMMENDATIONS OF STATE AND LOCAL BUILDING CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK. THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
 1. GA - ELECTRONIC INDUSTRIES ASSOCIATION RS-22 STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
 2. FAA - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR AC 70/7480-1H, CONSTRUCTION MARKING AND LIGHTING REGULATIONS FOR ANTENNA STRUCTURES.
 3. FCC - FEDERAL COMMUNICATION COMMISSION RULES AND REGULATIONS FOR ANTENNA STRUCTURES.
 4. AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION FOR STRUCTURAL JOINTS USING ASTM 1253 OR A590 BOLTS.
 5. NEC - NATIONAL ELECTRIC CODE - ON TOWER LIGHTING KITS.
 5. UL - UNDERWRITERS LABORATORIES APPROVED ELECTRICAL PRODUCTS.
 7. IN ALL CASES, PART 77 OF THE FAA RULES AND PARTS 17 AND 72 OF THE FCC RULES ARE APPLICABLE AND IN THE EVENT OF CONFLICT, SUPERSEDE ANY OTHER STANDARDS OR SPECIFICATIONS.
 8. LIFE SAFETY CODE NFPA, LATEST EDITION.

- G. MATERIALS: ALL SIMILAR MATERIALS AND EQUIPMENT SHALL BE THE SAME AS THAT LISTED IN THE DRAWINGS. NO ALTERNATE MATERIAL, APPARATUS OR APPLIANCE IS PERMITTED. NO MANUFACTURER MAY BE PROVIDED IF IT CONFORMS TO THE CONTRACT REQUIREMENTS AND MEETS THE APPROVAL OF THE OWNER. MATERIAL MANUFACTURER'S REGULARLY ENGAGED IN THE PRODUCTION OF SUCH MATERIAL AND SHALL BE THE MANUFACTURER'S CURRENT IN STANDARD AND DESIGN.
- D. EXERCUTION, FABRICATION, ERECTION AND INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM SHALL BE DONE IN FINISHED IN SUCH WORK AND SHALL PROCEED IN AN ORDERLY MANNER SO AS NOT TO HOLD UP PROGRESS OF THE PROJECT.
- E. PERFORMANCE TESTS: THOROUGHLY TEST FEEDERS, EQUIPMENT AND ALL CIRCUITS FOR PROPER OPERATING CONDITION AND FREQUENCY FROM GROUND AND SHORT CIRCUITS BEFORE ACCEPTANCE IS REQUESTED. ALL EQUIPMENT, APPLIANCES, AND DEVICES SHALL BE OPERATED UNDER LOAD CONDITIONS.
- F. AS-BUILT DRAWINGS: DURING PROCESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF THE WORK, MAINTAIN OF THE INSTALLATION, TRANSFER ALL RECORD DATA TO BLUE LINE PRINTS OF THE ORIGINAL DRAWINGS.
- PAGEWAYS, BOXES, AND FITTINGS
 - A. CONDUITS, ELECTRICAL, METALLIC TUBING (NET), MILD STEEL, ZINC COATED ON THE OUTSIDE AND EITHER ZINC COATED OR COATED WITH AN APPROVED CORROSION RESISTANT COATING ON THE INSIDE. DRAWINGS OR SPECIFICALLY APPROVED FOR EACH CASE. ALL SIZES NOT NOTED ON DRAWINGS SHALL BE AS REQUIRED BY NEC.
 - B. CONDUIT FITTINGS, CONNECTORS AND COUPLERS: EATON COUPLERS AND CONNECTORS FOR 1/2" THROUGH 2" CONDUIT ONLY. CONCRETE TIGHT OR RAIN TIGHT AND EITHER THE GLAND AND RING COMPRESSION TYPE OR THE STAINLESS STEEL MULTIPLE LOCKING TYPE. CONDUIT FITTINGS TO HAVE INSULATED THROATS. EAT FITTINGS USING TO BE PERMITTED. BUSINESS INSTALLED TYPE DESIGNED TO PREVENT ABRASION OF WIRES WITHOUT IMPAIRING THE CONDUCTIVITY OF THE CONDUIT, MC AND RIGID ALUMINUM CONDUIT.
 - C. CONDUIT INSTALLATIONS: CONDUITS SYSTEMS, EAT OR RIGID NONMETALLIC CONDUIT UNLESS NOTED. CONDUIT INSTALLATION: POSSIBLE INSTALLED EXPOSED CONDUITS AND EAT PARALLEL TO OR AT RIGHT ANGLES TO THE BUILDING. RIGHT ANGLE BENDS IN EXPOSED CONDUIT AND BUILT IN FITTINGS OR CONDUIT BENT TO ELBOWS. SCHEDULED CONDUIT FITTINGS OR CONDUIT BENT TO ROUNDS NO LESS THAN THOSE OF STANDARD ELBOWS.
 - D. CONDUIT SUPPORTS: PROVIDE SUPPORTS FOR HORIZONTAL CONDUITS AND EAT NOT MORE THAN 8 FEET APART. UNLESS THAN TWO ELBOW OR BEND INCLUDING BENDS ABOVE SPANNED CEILING AND WITHIN 3 FEET OF ALL JUNCTION BOXES, SWITCHES, OR SIGNAL, ETC. INSTALL ONE HORIZONTAL STRAP ON CONDUITS 1 INCH OR SMALLER. INSTALL ONE HORIZONTAL STRAP ON CONDUITS 1 INCH OR SMALLER. SPRING STEEL FASTENERS WITH HANGER RODS MAY BE USED IN DRY LOCATIONS IN LEU OF PIPE STRAPS.
- CONDUCTORS
 - A. WIRES AND CABLES: (600 VOLTS AND UNDER) TO BE APPLICABLE UL AND IECGA STANDARDS FOR THE INTENDED OPERATING CONDITION. CONDUCTORS WITH 600 VOLTS INSULATION, UNLESS OTHERWISE SPECIFIED OR NOTED ON THE DRAWINGS. STRANDED CONDUCTORS FOR NO. 8 OR LARGER WHERE ELSEWHERE SPECIFIED OR NOTED ON THE DRAWINGS. CONDUCTORS SHALL BE TYPE THHN/THWN INSULATION 75° AND 90° PERMITTED. OTHERWISE SPECIFIED CONDUCTORS COLOR-CODED IN ACCORDANCE WITH NEC. CONNECT ALL CONDUCTORS OF THE SAME PHASE CONDUCTOR, COLOR CODED SHALL BE A-BLACK, B-RED, H-WHITE, WITH GREEN PAIL FOR ALL GROUND CONDUCTORS.
 - B. CONNECTORS AND LUGS: FOR COPPER CONDUCTORS NO. 6 AND SMALLER: 3M SCOTCH-LOK OR T & B STRAP CONNECTORS. FOR COPPER CONDUCTORS LARGER THAN NO. 6 AND SMALLER: INHERENT TYPE CONNECTORS WITH INTEGRAL OR SEPARATE INSULATING CAPS. FOR COPPER CONDUCTORS LARGER THAN NO. 6 AND SMALLER: INHERENT HEX SCREW OR BOLT TYPE PRESSURE CONNECTORS. FOR ALUMINUM CONDUCTORS: SPULCES: (480 VOLTS AND UNDER): CONDUCTOR LENGTHS SHALL BE CONTINUOUS FROM TERMINATION TO TERMINATION WITHOUT SPICES UNLESS APPROVED BY THE BUILDING INSPECTOR.
 - C. CIRCUIT BREAKERS: PROVIDE WOLDED CASE BOLT-ON, THERMAL MAGNETIC TRIP, SINGLE OR DOUBLE POLE CIRCUIT BREAKERS AS SHOWN ON DRAWINGS. MULTIPLE POLE CIRCUIT BREAKERS AS SHOWN ON DRAWINGS. HANDLE COMMON TRIP, AIC RATING TO MATCH EXISTING OR AS REQUIRED FOR AVAILABLE FAULT CURRENTS.

- GROUNDING
 - A. ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 790 (LATEST EDITION), AND MANUFACTURER.
 - B. IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM WHEN THE AC PANEL, IN THE POWER CABINET IS CONSIDERED A SUB-PANEL. THE GROUND WIRE SHALL BE FOR LOCAL AND NATIONAL ELECTRICAL CODE (NFPA-70).
 - C. EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTIONS WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE #2 HOLES, LONG BARREL LUGS BE COVERED WITH ANTI-OXIDANT COMPOUND. THE COPPER CABLES SHALL BE COVERED WITH ANTI-OXIDANT COMPOUND BEFORE MAKING THE CRIMP CONNECTIONS. THE MANUFACTURER'S DIRECTIONS FOR THE RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS ARE TO BE FOLLOWED.
 - D. THE ANTENNA CABLES SHALL BE GROUNDING AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUS AT THE LOWEST POINT OF A VERTICAL RUN JUST BEFORE IT ENTERS THE POWER CABINET. THE SHIELD SHALL BE BONDED TO THE GROUND SHALL BE KEPT AS STRAIGHT AS POSSIBLE. THE ANTENNA CABLE SHIELD SHALL BE GROUNDING JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
 - E. ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE PVC RACEWAY MAY BE BLENDED OR BLENDED CONDUIT IS PERMITTED. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES, OR EQUIPMENT.
 - F. PROVIDE PVC SECTORS WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND/OR CEILING.
 - G. INSTALL GROUND BUSINES ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUS IN THE PANELBOARD.
 - H. GROUND ANTENNA BUSES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
 - I. GROUND COAXIAL SHIELD AT BOTH ENDS USING MANUFACTURER'S GUIDELINES.
 - J. GROUND FIELD TEST PROCEDURE
 1. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A TRAIL OF POTENTIAL TEST ON THE NEW SUPPLEMENTAL GROUND FIELD PRIOR TO FINAL CONNECTION OF THE GROUNDING SYSTEM TO EQUIPMENT. THE TEST SHALL BE PERFORMED BY A QUALIFIED AND CERTIFIED ELECTRICIAN. THE TEST SHALL BE PERFORMED BY THE PROJECT MANAGER FOR REVIEW. THE GROUND SYSTEM RESISTANCE TO EARTH GROUND SHALL NOT EXCEED TEN (10) OHMS. IF THE GROUND TEST EXCEEDS THE MAXIMUM OF 10 OHMS, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL GROUND CONNECTIONS AS REQUIRED TO MEET THE 10 OHMS MAXIMUM.

5/5/08



DAVID C. BALDO
001-017372

DOWMERS GROVE WT
ORD-321-A

L3H DOWMERS DRIVE
DOWMERS GROVE, IL 60815

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN-4

cricket
communications

8619 W. 29th Street, Ave.,
Chicago, IL 60631

Dynatek

TELECOMMUNICATIONS SERVICES

7134 Brookwood Drive
Brookfield, OH 44003
Phone: 800-333-3224
Fax: 304-444-3337
www.dynatektelecom.com

PROJECT: 613

DRAWN BY: K.T.V.

CHECKED BY: D.C.B.

| SUBMITTALS | |
|--------------------------------|-----|
| 8 (4/22/08) CRR Revisions | HRT |
| 6 (3/20/08) CRR Revisions | TH |
| 6 (2/26/08) Revoke Revisions | HRT |
| 5 (1/16/08) Revoke Revisions | HRT |
| 4 (1/2/08) Revoke Revisions | SCR |
| 3 (10/15/07) Revoke Revisions | HRT |
| 2 (10/07/07) Comment Revisions | HRT |

THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF DYNATEK. ANY USE OR DISSEMINATION OF THIS INFORMATION TO OTHER THAN THE PROJECT MANAGER WITHOUT THE WRITTEN PERMISSION OF DYNATEK IS PROHIBITED.

Expires 11-30-2008
David C. Baldo

AFTER RECORDING, PLEASE RETURN TO:

**Cricket Communications, Inc.
10307 Pacific Center Court
San Diego, CA 92121
Attn: Legal Department**

**Property Tax ID Number: 09-06-307-~~012~~⁰¹¹
County: DuPage
ORD-321-A**

Memorandum of License

Village of Downers Grove ("Licensor") and Denali Spectrum Operations, LLC, a Delaware corporation ("Licensee") entered into a Site Lease dated _____, 2008 ("Agreement") regarding a portion of the real property located at 4318 Downers Drive, Downers Grove, IL 60515 as more particularly described in the attached Exhibit A ("Property").

The Agreement is for a term of five (5) years and will commence on the date as set forth in the Agreement ("Commencement Date") and shall terminate at midnight on December 31, 2012. Tenant shall have the right to extend this Agreement for two (2) additional five (5) year terms.

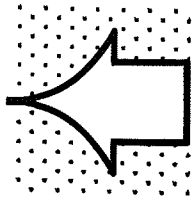
IN WITNESS WHEREOF, the parties hereto have executed this memorandum effective as of the date of the last party to sign.

(SIGNATURES ON FOLLOWING PAGE)

IN WITNESS WHEREOF, the parties hereto have executed this memorandum effective as of the date of the last party to sign.


LICENSOR: VILLAGE OF DOWNERS GROVE,
a municipal corporation

By: _____
Printed Name: _____
Its: _____



LICENSEE: DENALI SPECTRUM OPERATIONS, LLC
a Delaware limited liability company

By: Denali Spectrum License, LLC
Its sole member
By: Denali Spectrum, LLC
Its sole member
By: Denali Spectrum Manager, LLC
Its manager
By: Doyon, Limited
Its manager

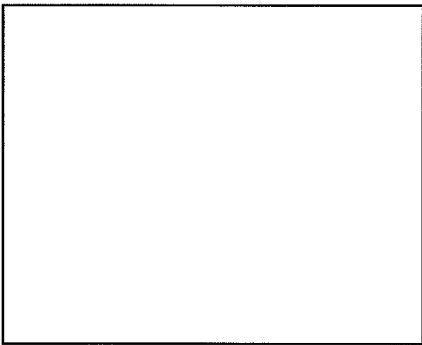
By: 
Brian Root: Brian Root
Title: Operations Manager

LICENSOR:

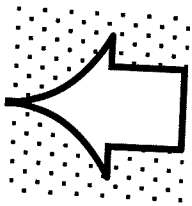
STATE OF _____)
) ss.
COUNTY OF _____)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as the _____ of the Village of Downers Grove to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

Dated: _____.



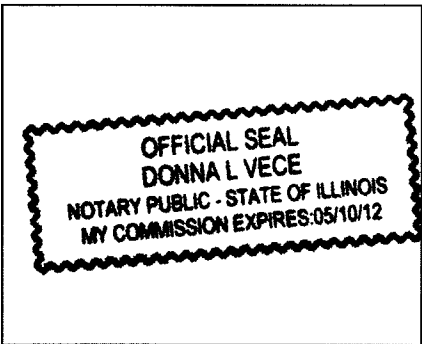
Notary Public
Print Name _____
My commission expires _____



LICENSEE:

STATE OF Illinois)
) ss.
COUNTY OF Cook)

I certify that I know or have satisfactory evidence that Brian Root is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as its Operations Manager, of Denali Spectrum Operations, LLC, to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.



Donna L. Vece

Notary Public
Print Name DONNA L. VECE
My commission expires 5-10-12

EXHIBIT A
Legal Description

The Property is legally described as follows:

SEE ATTACHED PLAT

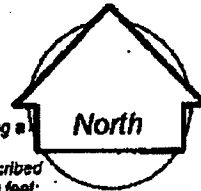
4-17-207 4:07PM

FROM

Plat of Easement J. M. Hank & Associates

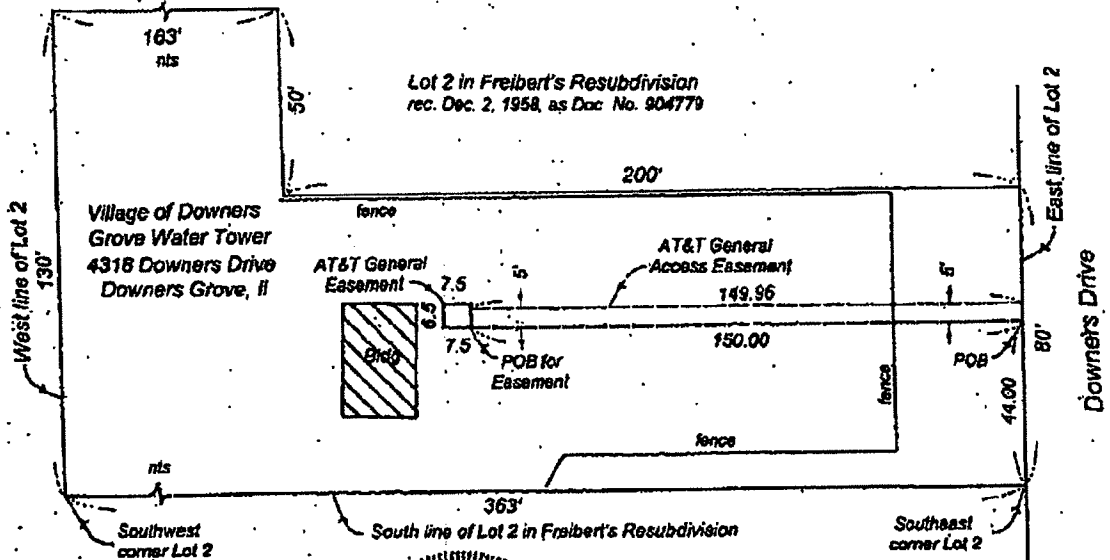
Land • Marine • Aerial Surveys
800 Busse Highway • Park Ridge, Il. 60068
telephone (847) 696-0010
fax: (847) 698-6920

Scale 1" = 40 feet



Legal description for an AT&T General Easement.
That part of Lot 2 in Freibart's Resubdivision of Lots 8, 9 and 10 in Myron H. Wilcox Ogden Avenue Addition, being a subdivision situated in the Southwest 1/4 of Section 6, Township 38 North, Range 11, East of the Third Principal Meridian, according to the plat thereof recorded December 2, 1958, as Document No. 904779, bounded and described as follows: Commencing at the Southeast corner of said Lot 2; thence North along the East line of said Lot, 44.00 feet; thence West along a line parallel with the South line of said Lot, 150.00 feet to the point of beginning; thence continuing thence West along a line parallel with the South line of said Lot, 7.50 feet; thence North along a line at right angles to the last described course, 6.60 feet; thence East along a line parallel with the South line of said Lot, 7.50 feet; thence South along a line at right angles to the last described course, 6.60 feet to the point of beginning, all in DuPage County, Illinois. Containing 49 Square feet.

Legal description for a 5 foot AT&T General Access Easement
That part of Lot 2 in Freibart's Resubdivision of Lots 8, 9 and 10 in Myron H. Wilcox Ogden Avenue Addition, being a subdivision situated in the Southwest 1/4 of Section 6, Township 38 North, Range 11, East of the Third Principal Meridian, according to the plat thereof recorded December 2, 1958, as Document No. 904779, bounded and described as follows: Commencing at the Southeast corner of said Lot 2; thence North along the East line of said Lot, 44.00 feet to the point of beginning; thence West along a line parallel with the South line of said Lot, 150.00 feet; thence North along a line at right angles to the last described course, 5.00 feet; thence East along a line parallel with the South line of said Lot, 149.96 feet to the East line of said Lot; thence South along the East line of said Lot, 5.00 feet to the point of beginning, all in DuPage County, Illinois. Containing 750-Square feet.



Legend/notes:
. nts indicates not to scale
POB indicates point of beginning.



State of Illinois
County of Cook s.s.

I, John M. Hank, an Illinois Professional Land Surveyor, do hereby
Certify that I have prepared this plat of easement from official records,
and that this plat is a correct representation thereof.
Park Ridge, Ill. 2007

John M. Hank
Illinois Professional Land Surveyor No. 1715
License expires November 30, 2008

Order No. 07-3308
Ordered by: AT&T
Scale. 1" equals 40 feet

Exhibit A