

**Roseville Parks and Recreation
Commission Meeting
Tuesday March 5, 2013
6:30 P.M.
Roseville City Hall
2660 Civic Center Drive**

AGENDA

- 1. Introductions/Roll Call/Public Comment Invited**
- 2. Approval of Minutes of February 5, 2013**
- 3. Reservoir Woods Park Verizon Wireless Proposal**
- 4. Finalize 2013 Meeting Calendar**
- 5. Commission Goals 2013-2015**
- 6. Park and Recreation Renewal Program**
- 7. Staff Report**
- 8. Other**
- 9. Adjournment**

**Roseville Parks and Recreation
“Building Community through People, Parks and Programs”
www.ci.roseville.mn.us**

*Be a part of the picture...get involved with your City...Volunteer!
For more information, call Roseville Parks and Recreation at 651-792-7006
or check our website at www.cityofroseville.com
Volunteering, a Great Way to Get Involved!*

MEMORANDUM

To: Parks and Recreation Commission
From: Lonnie Brokke
Date: February 26, 2013
Re: Notes for Commission Meeting on **Tuesday, March 5, 2013**

1. Introductions/Public Comment Invited

Commissioners and staff will be introduced. Public participation and public comment is encouraged.

2. Approval of Minutes of the February 5, 2013 Meeting

Enclosed is a copy of the minutes of February 5, 2013. Please be prepared to approve or amend.

Requested Commission Action: Approve/amend meeting minutes of February 5, 2013.

3. Reservoir Woods Park Verizon Wireless Proposal

Consideration for an additional cell provider on the Reservoir Woods Park tower continues. In September of 2012, you reviewed and provided general support for a Verizon Wireless proposal that included expanding the footprint of the existing ground space and constructing a 11'6" x 30' support facility. It has since received general consensus from the City Council but similar to you, they are interested in being sure it fits aesthetically into the park and that noise does not become a negative factor. If approved, there will be an agreement between the City and Verizon Wireless.

Included in your packet is a project proposal including a landscape plan for the area and photos of a typical Verizon support building. A Verizon representative will be at your meeting to explain their proposal and answer your questions.

As Commissioners and users of the park, please review the materials and be sure to think about how you feel this proposal fits into the park, the potential impacts, and do not hesitate to ask questions and make suggestions on possible improvements so the best recommendations can be made for the future of the park.

Please be prepared with comments, questions and suggestions.

Requested Commission Action: Comments, questions and consider recommendation.

4. Finalize 2013 Commission Meeting Calendar

Attached is an updated draft calendar for your consideration.

Requested Commission Action: Finalize calendar for 2013.

5. Finalize Commission Goals 2013-15

Commissioners Diedrick and Simbeck have been working as a subcommittee, with staff, to draft a set of Commission Goals for 2013-15. Last month the Commission discussed a draft set of goals for 2013-15, enclosed is an updated draft copy for your review, discussion and consideration.

Requested Commission Action: Review and consider proposed goals.

6. Park and Recreation Renewal Program

The Best Value Natural Resource Project Consultant has been identified and we are currently in the clarification phase.

Seven proposals were received from Playground Vendors. Evaluations of their Project Capability (PC), Risk Plan (RP) and Value Added (VA) are completed with interviews scheduled for March 1st and March 8th.

Included in your packet is a list of upcoming park/project specific meetings. You are always welcome to attend one or all of the meetings.

Staff is continuing to work with Michael Schroeder (LHB) and Arizona State University on the following anticipated additional Request for Proposals (RFPs).

- i. Buildings- spring 2013
- ii. Shelters – fall 2013
- iii. Ballfields – fall 2013
- iv. Irrigation – fall 2013
- v. Boardwalk – spring 2013
- vi. Outdoor lighting – spring 2013
- vii. Site development- spring 2014
- viii. Courts – spring 2014

Commissioner Doneen and staff will provide progress information on the Natural Resource and Trails Subcommittee to you at the meeting.

If you have the opportunity to view the City website “Park and Recreation Renewal” tab, we would appreciate comments on its use and content, what you like or how you think it could be improved.

Any new progress on the Renewal Program will be reported at the meeting. Comments, questions and suggestions from the Commission are welcome and encouraged.

Requested Commission Action: Discuss new progress and provide input.

7. **Staff Report**
8. **Other**
9. **Adjournment**

**ROSEVILLE PARKS AND RECREATION COMMISSION
MEETING MINUTES FOR FEBRUARY 5, 2013
ROSEVILLE CITY HALL ~ 6:30PM**

PRESENT: Azer, Diedrick, Doneen, D. Holt, M. Holt, Simbeck, Wall
ABSENT: Boehm and Ristow notified staff ahead of time about being unable to attend
STAFF: Anfang, Brokke

1. INTRODUCTIONS/ROLL CALL/PUBLIC COMMENT

None

2. APPROVAL OF MINUTES – JANUARY 10, 2013 MEETING

Commission Recommendation:

Minutes for the January 10, 2013 meeting were approved unanimously, Wall abstained due to missing the January meeting.

3. COMMISSION GOALS 2013-2015

Diedrick and Simbeck updated Commissioners on the background and process for the proposed 2013-2015 Parks & Recreation Commission goals

- Seven goals were identified from earlier commission discussions with staff assistance and taking into consideration the city council work plan
- Following a commission discussion on the overall goal process, each individual goal was reviewed with updates being made where appropriate. Revised Parks & Recreation Commission Goals 2013-2015 will be presented at the March meeting
- Commissioners discussed how they might support deferred maintenance needs once the renewal program is completed. Commissioners talked about the need for long-term budget considerations. This is an important topic, it is easily lost in the greater budget and we do not want to go backwards with deferred maintenance on the renewal program investments

4. MEETING CALENDAR FOR 2013

- Commissioners agreed to consider a July meeting as needed to address renewal program updates
- Commissioners set Saturday, September 7 as the alternate date for that month's meeting
- Commissioners set Thursday, November 7 as the alternate date for that month's meeting

5. PARKS and RECREATION RENEWAL PROGRAM

- Doneen updated the Commission on activities involving the Natural Resources and Trails Subcommittee
 - o To date, the subcommittee has focused mainly on trails. Natural Resources has not been totally put aside as staff have kept the group informed on current projects in Reservoir Woods and at Langton Lake. There is a need for a Natural Resource project plan
 - o The subcommittee has been working to meld the parks and recreation master plan and the pathways and trails master plan
 - The B2 pathway has been identified as the #1 priority. It is important to the community as a whole because of its service to schools and its connections to parks
 - Committee is working on funding priorities. They are considering needs as well as connections to the park system
 - o Other Possible pathways and trails projects being considered are:
 - Connectors along Victoria and Hamline Avenue – there is a community need but little park connection

- Looking for the opportunity to develop an entire constellation where there are smaller area links missing
 - Constellation B with connectors at Langton Lake and Oasis Park
 - Constellation L for Bruce Russell, Lexington and Mayflower Parks
 - Constellation E in the North East Corner
- Brokke updated the commission on other recent Renewal Program activity:
 - o Natural Resources and Playground Vendor pre-proposal meetings were held with 40 vendors present. Proposals are due Feb 6.
 - o Dr. Dean Kashiwagi from ASU presented a Best Value Procurement overview to the City Council that was well received
 - o Roseville has received a \$359,000 Clean Water Grant for Evergreen Park to address underground water storage. Thank you to the public works staff for their efforts
 - o The first renewal program community meeting was held on Feb 2 at HANC. Community members provided input and worked through exercises to provide staff and design contractors with ideas and suggestions for the next step. March 2 is the follow up meeting where schematic drawings will be shared that incorporate ideas and information. This will be the final check-in with the community on this area
 - o Staff will be updating the City Council on Renewal Program progress on Feb 11
 - o The first meeting for Lexington Park projects will be Feb 12
 - o B2 pathway trail meeting is scheduled for Feb 28 – area surveying has been completed
 - o Buckthorn removal has begun at Langton Lake and is making a significant difference

6. STAFF REPORT

- Ethics training is scheduled for April 10
- City Attorney will be meeting with the Parks and Recreation Commission on May 7
- Parks and Recreation is working in cooperation with Community Education on a “Communities for a Lifetime” grant. This grant will help Roseville assess needs to create a Community for a Lifetime
 - o Four community dialogues will be held to assess what it will take to make Roseville a Community for a Lifetime
- The OVAL recently was host to the Junior World Speedskating Cup and the US National Juniors Speedskating Championships
- The RFP for developing a rain garden at the Arboretum went out today. This is a \$30,000 project that will address drainage issues and is being funded by the Roseville Rotary
- The Verizon tower in Reservoir Woods was on the most recent Council agenda. The City Council did not take action, however, generally they were supportive of the project but were looking for more information on aesthetics, noise issues and where future revenues will be directed

7. OTHER

- None

Meeting adjourned at 8:30pm

Respectfully Submitted,
Jill Anfang, Assistant Director

Using Decibels

Addition and subtraction of decibels is often necessary for estimating total noise levels or background noise. Because decibels are measured using a logarithmic scale, conventional linear mathematics cannot be used. The most convenient way to perform simple arithmetic functions involving logarithmic measurements is to use doubling rules. These rules provide an accurate estimate of the effect distance and multiple sources have on measured sound pressure level.

Distance Attenuation Estimations

When the distance is doubled from a **Line** source the sound level decreases three decibels.

Example: If a sound level is: 70 decibels at 50 feet it will be 67 decibels at 100 feet, and 64 decibels at 200 feet.

When the distance is doubled from a **Point** source the sound level decreases six decibels.

Example: If a sound level is: 95 decibels at 50 feet it will be 89 decibels at 100 feet, and 83 decibels at 200 feet.

Decibel Levels of Common Noise Sources

Sound Pressure Level (dBA) Noise Source

140	-----	Jet Engine (at 25 meters)
130	-----	Jet Aircraft (at 100 meters)
120	-----	Rock and Roll Concert
110	-----	Pneumatic Chipper
100	-----	Jointer/Planer
90	-----	Chainsaw
80	-----	Heavy Truck Traffic
70	-----	Business Office
60	-----	Conversational Speech
50	-----	Library
40	-----	Bedroom
30	-----	Secluded Woods
20	-----	Whisper

D = DISTANCE FROM CENTER OF GENERATOR

S = SOUND PRODUCED IN Db

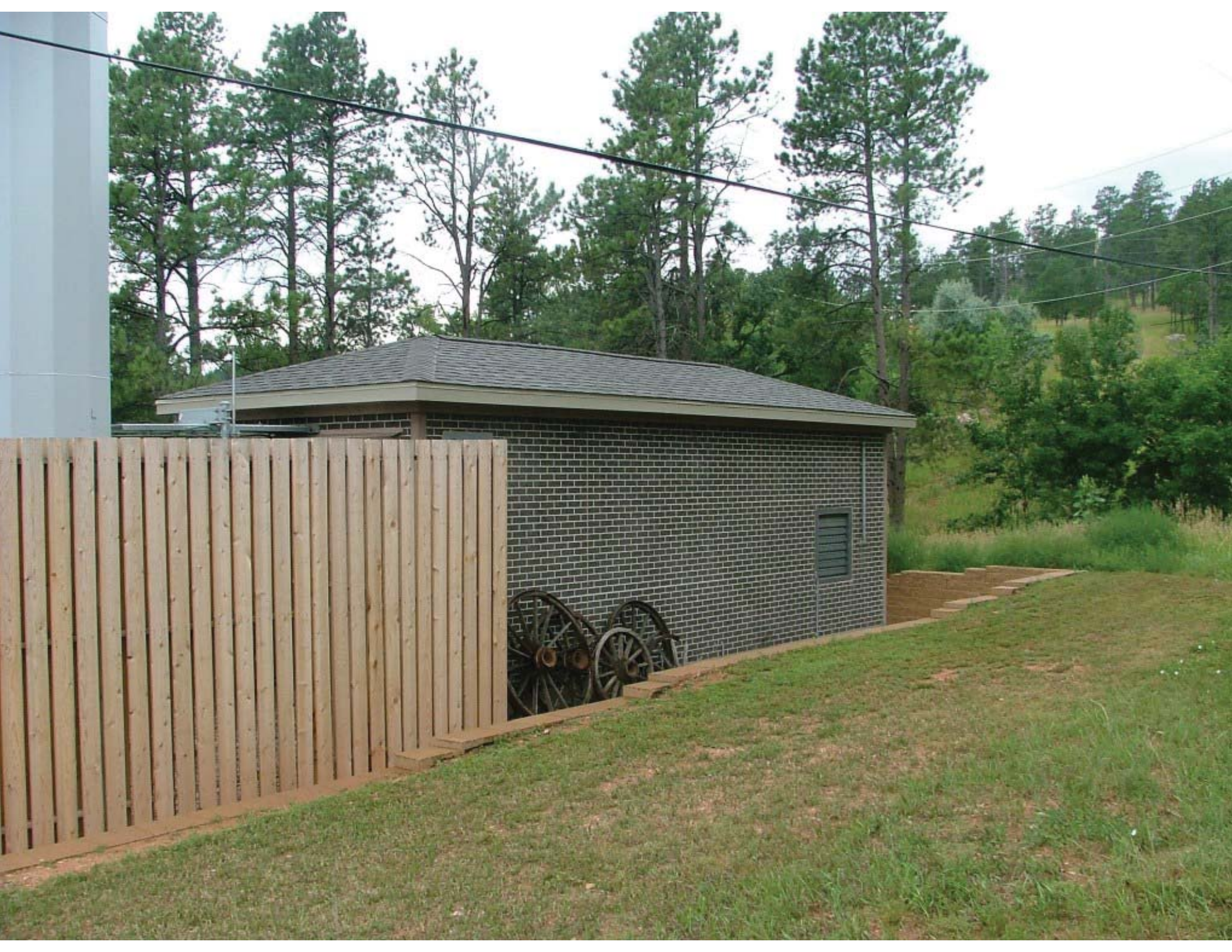
D / 2	=	S – 6	Noise similar to:
100ft	=	60dB	Conversational Speech
200ft	=	54dB	Conversational Speech – Library
400ft	=	48dB	Library
800ft	=	42dB	Bedroom
1600ft	=	36dB	Bedroom - Secluded Woods

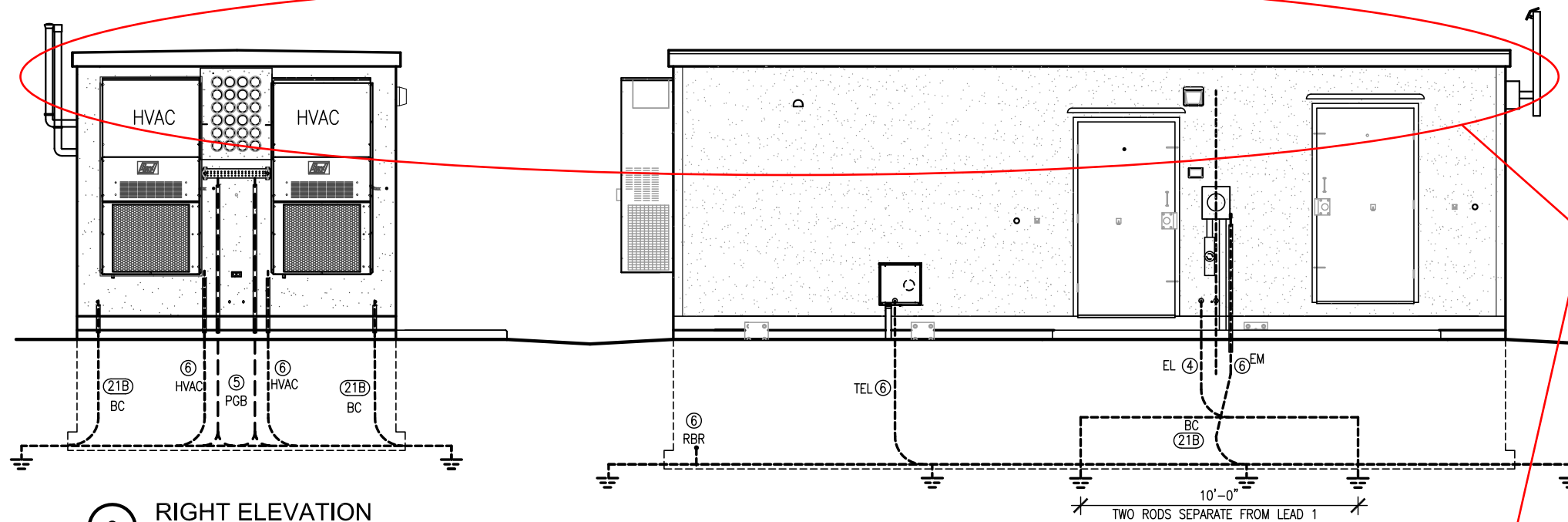
This information is taken from pages 5 and 6 of Minnesota Pollution Control Agency
“A Guide to Noise Control in Minnesota” revised 3/99 and GENERAC Power Systems, Inc.





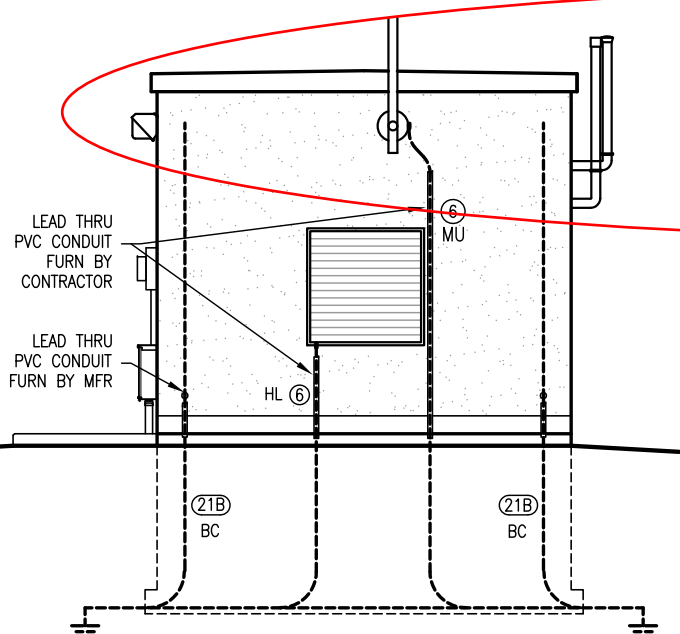




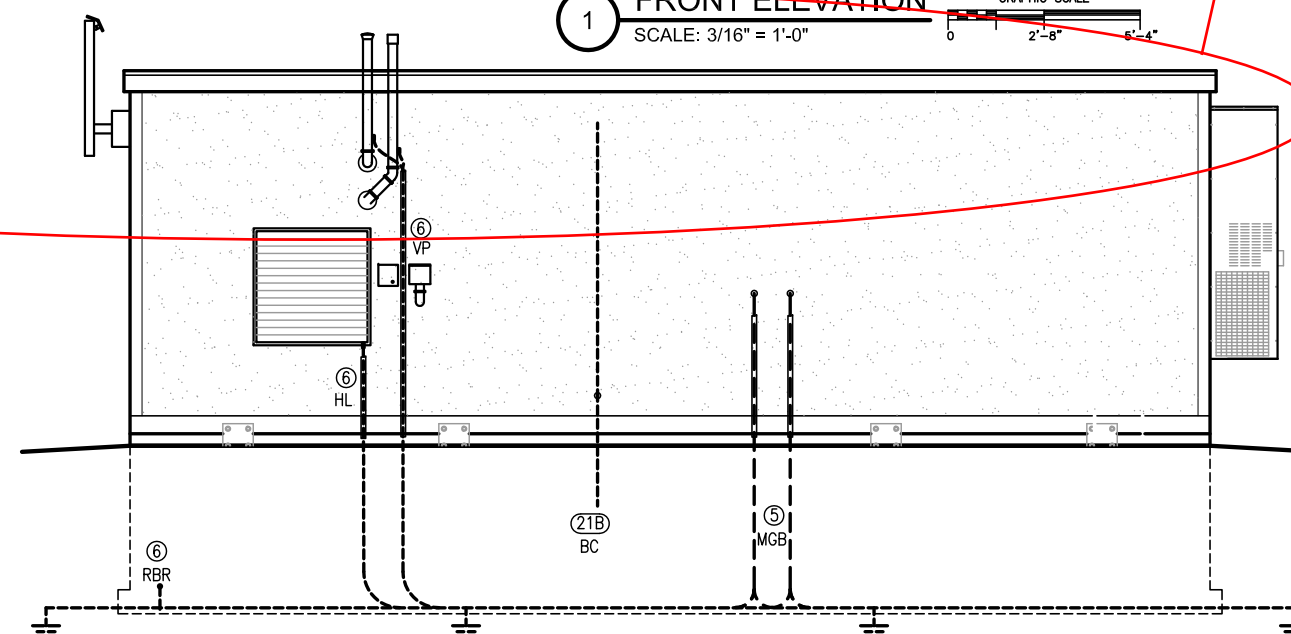


2 RIGHT ELEVATION
SCALE: 3/16" = 1'-0"

1 FRONT ELEVATION
SCALE: 3/16" = 1'-0"



4 LEFT ELEVATION
SCALE: 3/16" = 1'-0"



3 REAR ELEVATION
SCALE: 3/16" = 1'-0"

1008.02: Design Standards
The following standards shall apply to all new roofed and enclosed buildings and major expansions of similar existing buildings (i.e., expansions that constitute 50% or more of building floor area) in the recreation district...

- A. Vertical Facade Articulation: Buildings shall be designed with a base and a top, created by variations in detailing, color, and materials.
1. ...
 2. Articulated building tops may include varied rooflines, cornice detailing, dormers, gable ends, stepbacks of upper stories, and similar methods.

C. Materials: All exterior wall finishes on any building must be one or a combination of the following materials: wood lapsiding or shakes (preferably cedar), face brick, natural or cultured stone, textured pre-cast concrete panels, textured concrete block, stucco, glass, pre-finished metal, fiberglass or similar materials, or cor-ten steel (other than unpainted galvanized metal or corrugated materials). Other new materials of equal quality to those listed may be approved by the Community Development Department.

E. Four-Sided Building Design: Building design shall provide consistent architectural treatment on all building walls. All sides of a building must display compatible materials, although decorative elements and materials may be concentrated on street-facing facades. All facades shall contain window openings. This standard may be waived by the Community Development Department for uses that include elements such as service bays on one or more facades.

[Given the location and size of mechanical equipment on the right elevation, it's possible that the "four-sided" design requirements could be waived for this side.]

NOT FOR CONSTRUCTION

DESIGN 1
ROBERT J DAVIS, AIA
ARCHITECT
9973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
(952) 903-9299 FAX 903-9292

VERIZON WIRELESS
10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
(612) 720-0030

PROJECT
2012746699
MINC ROSEY

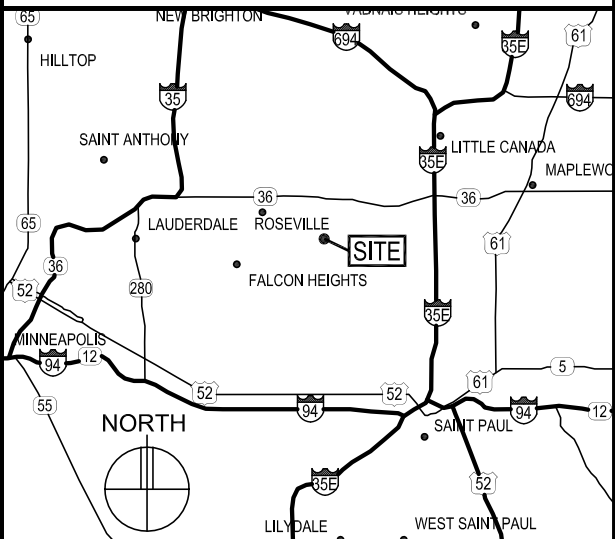
1901 ALTA VISTA DRIVE
ROSEVILLE, MN 55113

SHEET CONTENTS:
EXTERIOR ELEVATIONS
CONDUIT, STOOP, ANTI-
THEFT, BRIDGE, TOWER
BASE DETAILS

DRAWN BY:	CDB
DATE:	10-08-12
CHECKED BY:	CDB
REV. A	10-08-12
REV. B	01-28-13

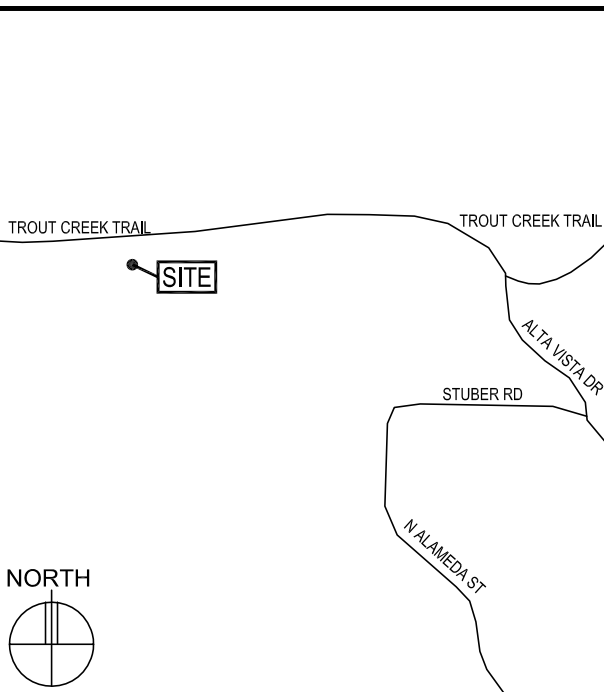
VERIZON WIRELESS

AREA MAP



DIRECTIONS FROM BLOOMINGTON RNC:
TAKE I-494 E FOR APPROX. 3.2 MILES, EXIT ONTO I-35 W N. FOR APPROX. 14.1 MILES, CONTINUE ONTO MN-36 E FOR APPROX. 2.9 MILES, EXIT AND TURN RIGHT ON DALE ST N FOR APPROX. .8 MILE, THEN TURN RIGHT ON DALE CT, TURN LEFT TO STAY ON DALE CT, TURN RIGHT ONTO ALTA VISTA DR AND CONTINUE ONTO TROUT CREEK TRAIL. SITE IS LOCATED ON THE LEFT.

VICINITY MAP



GENERAL NOTES

- In the event that Special Inspections are not performed in compliance with the contract terms, bid specifications and/or specified form, the General Contractor will be liable for all damages, construction performance, failures, and corrective actions related to the same.
- The following general notes shall apply to drawings and govern unless otherwise noted or specified.
- The work delineated in these drawings and described in the specifications shall conform to codes, standards and regulations that have jurisdiction in the state of Minnesota, and the city of Roseville.
- Requirements and regulations pertaining to R.F. safety codes and practices must be incorporated in the work even though they may not be listed individually and separately in either the drawings or the specifications.
- Compare field conditions with architectural and engineering drawings. Any discrepancies shall be directed to the Architect for clarification prior to fabrication and/or construction. Submit necessary shop drawings prior to fabrication for approval by the Architect. No information or details on these sheets may be used without the permission of the owner, or the architect.
- Do not scale drawings! 11" x 17" drawings to scale 24" x 36" drawings scale multiply by 2
- Unless otherwise shown or noted, typical details shall be used where applicable.
- Details shall be considered typical at similar conditions.
- Safety measures: The contractor shall be solely and completely responsible for the conditions of the job site, including safety of the persons and property and for independent engineering reviews of these conditions. The Architect's or Engineers' job site review is not intended to include review of the adequacy of the contractor's safety measures.
- Within these plans and specifications, "Owner" implies VERIZON WIRELESS.
- The work is the responsibility of the general contractor unless noted otherwise.
- The terms "contractor" and "g.c." refer to the owner's general contractor and the general contractor's sub-contractors. It is the general contractor's responsibility to determine the division of work among sub-contractors.
- The general contractor is responsible in obtaining necessary public and private underground utility locate services prior to start of excavating / construction.

VERIZON WIRELESS DEPARTMENTAL APPROVALS

	NAME	DATE
RF ENGINEER	CRAIG CIECMIEROWSKI	10-10-12
OPERATIONS MANAGER		
CONSTRUCTION ENGINEER	JOHN HAUGEN	10-10-12
CONSTRUCTION MANAGER		
REAL ESTATE MANAGER		

LESSOR / LICENSOR APPROVAL

SIGNATURE	PRINTED NAME	DATE
LESSOR / LICENSOR: PLEASE CHECK THE APPROPRIATE BOX BELOW		
☐ NO CHANGES.	☐ CHANGES NEEDED. SEE COMMENTS ON PLANS.	

PROJECT INFORMATION

SITE NAME: MINC ROSEY
PROJECT NUMBER: 2012746699
SITE ADDRESS: ALTA VISTA DRIVE
ROSEVILLE, MN 55113
COUNTY: RAMSEY
LATITUDE: N44° 59' 56.2" (NAD 1983)
LONGITUDE: W93° 07' 57.6" (NAD 1983)
GROUND ELEVATION: 1005.4' AMSL (NAVD 1988)
ANTENNA TIP HEIGHT: 1102.4' AMSL 94' AGL (CDMA & LTE)
999.9' AMSL 92.5' AGL (PCS & AWS)
ANTENNA CENTERLINE HEIGHT: 1098.4' AMSL 90' AGL
TOWER HEIGHT: 1150.4' AMSL 145' AGL
OVERALL STRUCTURE HEIGHT: 1168.9' AMSL - 163.5' AGL

DRAWING BASED ON
SITE DATA FORM DATED: 08-21-12
OCCUPANCY: B
BUILDING TYPE: V-A
SITE AREA: 18' x 36' = 648 S.F.
ROOF LOAD: LIVELOAD = 105 PSF

PARKING: PROVIDED
ESTIMATED COAX RUN: "X" COAX RUN = (4) 1-5/8" LINES @ 155'
"X" COAX RUN = (4) 7/8" LINES @ 155'
"Y" COAX RUN = (4) 1-5/8" LINES @ 155'
"Y" COAX RUN = (4) 7/8" LINES @ 155'
"Z" COAX RUN = (4) 1-5/8" LINES @ 155'
"Z" COAX RUN = (4) 7/8" LINES @ 155'

PROJECT DESCRIPTION:
TO IMPROVE THE COMMUNICATION SERVICE IN THE ROSEVILLE, MN AREA BY INSTALLING UP ANTENNAS ON AN EXISTING TOWER AND INSTALLING A PREFABRICATED EQUIPMENT SHELTER.

SHEET INDEX

SHEET	SHEET DESCRIPTION
T-1	PROJECT INFORMATION, MAPS, DIRECTIONS, AND SHEET INDEX
A-1	SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	TOWER ELEVATION, COAX AND ANTENNA KEY, NOTES, AND DETAILS
A-4	PREFABRICATED SHELTER PLANS, ELEVATIONS, NOTES, & DETAILS
A-5	MISCELLANEOUS DETAILS
A-6	OUTLINE SPECIFICATIONS
L-1	LANDSCAPE PLAN
G-1	GROUNDING NOTES AND DETAILS
G-2	GROUNDING PLAN AND NOTE KEY
G-3	EXTERIOR GROUNDING DETAILS
E-1 & E-2	ELECTRICAL PLAN, NOTES, AND DETAILS
	SURVEY

ISSUE SUMMARY

REV.	DESCRIPTION	SHEET OR DETAIL
A	ISSUED FOR REVIEW 10-09-12	ALL
B	ISSUED FOR OWNER SIGNOFF 01-28-12	ALL
C	ISSUED FOR OWNER SIGNOFF 02-20-13	ALL

CONTACTS

LESSOR / LICENSOR: CITY OF ROSEVILLE
2660 CIVIC CENTER DRIVE
ROSEVILLE, MN 55113
CHRISTOPHER K. MILLER (651) 792-7031
LESSEE: VERIZON WIRELESS
10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
MIKE COGAR (612) 720-0030
POWER UTILITY
COMPANY CONTACT: XCEL ENERGY
414 NICOLLET MALL
MINNEAPOLIS, MN 55401
1-800-628-2121
TELCO UTILITY
COMPANY CONTACT: CENTURY TEL OF MINNESOTA
204 N. ST PAUL AVE, P.O. BOX 408
FULDA, MN 56131
507-425-2952
ARCHITECT: DESIGN 1 OF EDEN PRAIRIE, LTD.
9973 VALLEY VIEW ROAD
EDEN PRAIRIE, MN 55344
(952) 903-9299
SURVEYOR: SUNDE LAND SURVEYING
9001 E. BLOOMINGTON FREEWAY, SUITE 118
BLOOMINGTON, MN 55420
(952) 881-2455
STRUCTURAL
ENGINEER: MALOUF ENGINEERING INTERNATIONAL, INC.
17950 PRESTON ROAD, SUITE 720
DALLAS, TEXAS 75252
972-783-2578
GEOTECHNICAL
ENGINEER: N/A

NOT FOR
CONSTRUCTION

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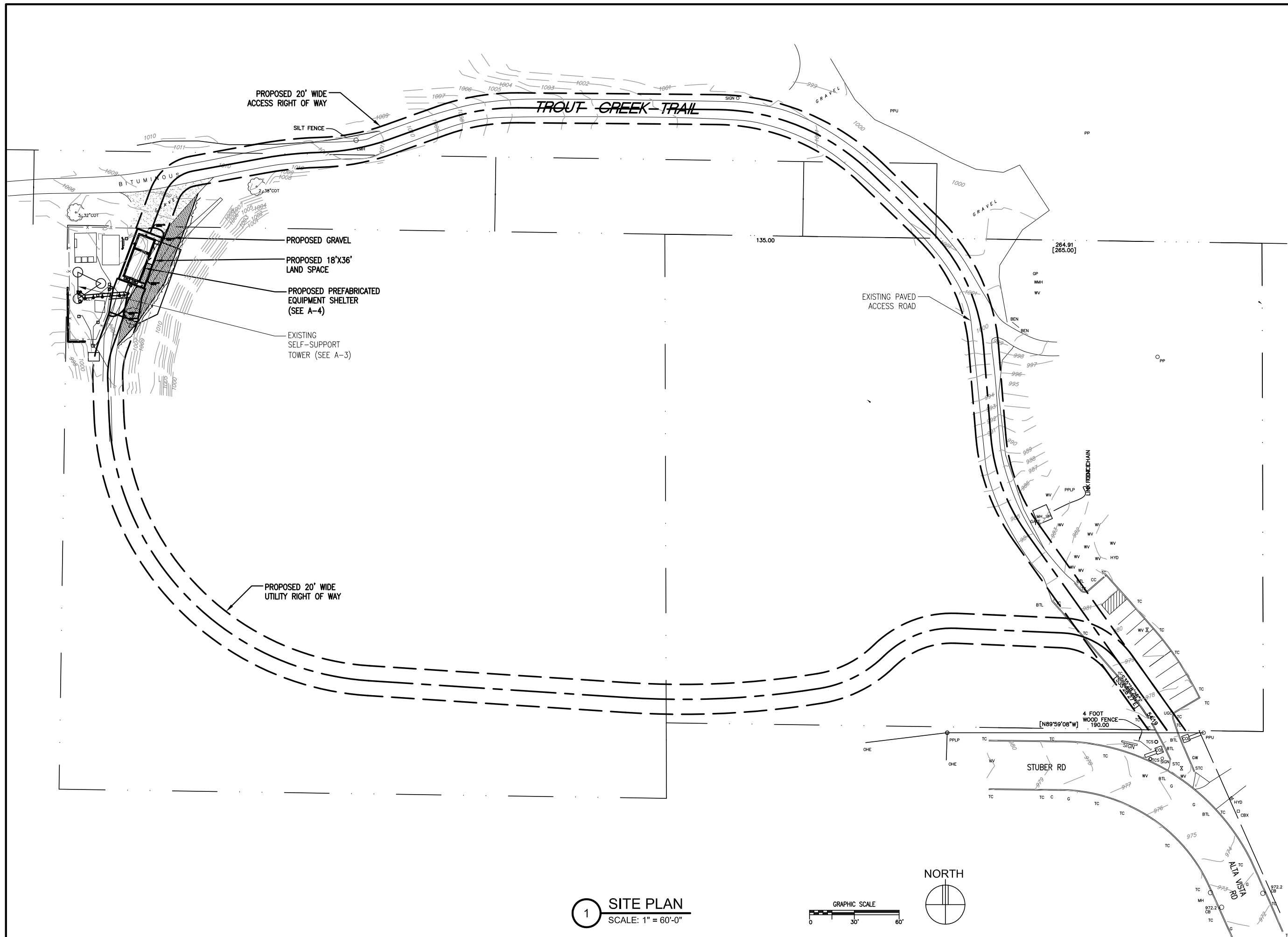
ALTA VISTA DRIVE
ROSEVILLE, MN 55113

SHEET CONTENTS:

CONTACTS
ISSUE SUMMARY
SHEET INDEX
DEPARTMENTAL APPROVALS
LESSOR APPROVAL
PROJECT INFORMATION
AREA & VICINITY MAPS
GENERAL NOTES

DRAWN BY:	JUB
DATE:	10-09-12
CHECKED BY:	TRB
REV. A	10-09-12
REV. B	01-28-13
REV. C	02-20-13

T-1



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PROJECT

2012746699

MINC
ROSEY

ALTA VISTA DRIVE
ROSEVILLE, MN 55113

SHEET CONTENTS:
SITE PLAN

DRAWN BY:	JJB
DATE:	10-09-12
CHECKED BY:	TRB
REV. A	10-09-12
REV. B	01-28-13
REV. C	02-20-13

A-1

ANTENNA KEY													COAX KEY							
	AZIMUTH	POSITION	FUNCTION	QTY	MANUFACTURER	MODEL	MOD TYPE	ANTENNA LENGTH	ANTENNA TIP	ANTENNA CENTER	ELEC DOWNTILT	MECH DOWNTILT	QTY.	COAX TYPE	MANUFACTURER	MODEL	DIELECTRIC	DIAMETER (INCH)	RUN (FEET)	
"X" SECTOR	30°	1.1	TX/RX0	1	ANTEL	HTXC6318M000	CDMA +45	94.9"	100'	90'	3'	4'	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
	30°	1.2	TX/RX0	-	-	2ND PORT	CDMA -45	-	-	-	-	-	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
	30°	2.1	TX/RX0	1	ANTEL	WBX065X17M050	AWS +45	54.7"	92.4'	90'	0'	0'	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	30°	2.2	TX/RX1	-	-	2ND PORT	AWS -45	-	-	-	-	-	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	30°	3.1	TX/RX0	1	ANTEL	WBX065X17M050	PCS +45	54.7"	92.4'	90'	0'	0'	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	30°	3.2	TX/RX1	-	-	2ND PORT	PCS -45	-	-	-	-	-	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	30°	4.1	TX/RX0	1	ANTEL	HTXC6318M000	LTE +45	94.9"	94'	90'	2'	4'	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
30°	4.2	TX/RX1	-	-	2ND PORT	LTE -45	-	-	-	-	-	-	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
"Y" SECTOR	150°	1.1	TX/RX0	1	ANTEL	HTXC6318M000	CDMA +45	94.9"	94'	90'	3'	3'	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
	150°	1.2	TX/RX0	-	-	2ND PORT	CDMA -45	-	-	-	-	-	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
	150°	2.1	TX/RX0	1	ANTEL	WBX065X17M050	AWS +45	54.7"	92.4'	90'	0'	0'	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	150°	2.2	TX/RX1	-	-	2ND PORT	AWS -45	-	-	-	-	-	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	150°	3.1	TX/RX0	1	ANTEL	WBX065X17M050	PCS +45	54.7"	92.4'	90'	0'	0'	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	150°	3.2	TX/RX1	-	-	2ND PORT	PCS -45	-	-	-	-	-	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	150°	4.1	TX/RX0	1	ANTEL	HTXC6318M000	LTE +45	94.9"	94'	90'	3'	3'	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
150°	4.2	TX/RX1	-	-	2ND PORT	LTE -45	-	-	-	-	-	-	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
"Z" SECTOR	270°	1.1	TX/RX0	1	ANTEL	HTXC6318M000	CDMA +45	94.9"	94'	90'	2'	3'	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
	270°	1.2	TX/RX0	-	-	2ND PORT	CDMA -45	-	-	-	-	-	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
	270°	2.1	TX/RX0	1	ANTEL	WBX065X17M050	AWS +45	54.7"	92.4'	90'	0'	0'	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	270°	2.2	TX/RX1	-	-	2ND PORT	AWS -45	-	-	-	-	-	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	270°	3.1	TX/RX0	1	ANTEL	WBX065X17M050	PCS +45	54.7"	92.4'	90'	0'	0'	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	270°	3.2	TX/RX1	-	-	2ND PORT	PCS -45	-	-	-	-	-	1	MAIN	ANDREW	AVA7-50	FOAM	1-5/8"	155'	
	270°	4.1	TX/RX0	1	ANTEL	HTXC6318M000	LTE +45	94.9"	94'	90'	2'	3'	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
270°	4.2	TX/RX1	-	-	2ND PORT	LTE -45	-	-	-	-	-	-	1	MAIN	ANDREW	AVA5-50	FOAM	7/8"	155'	
ADDITIONAL: (6) TTA ADC DD1900 TTAs (2 PER SECTOR) & (6) AWS TTA COMMSCOPE E15S09P84 (2 PER SECTOR) (TOWER)													24	JUMPER	ANDREW	LDF4-50A	FOAM	1/2"	10'	PER SECTOR

NOTE: CONTRACTOR TO OBTAIN CURRENT FINAL SDF & FAA DETERMINATION FROM VZW PRIOR TO CONSTRUCTION COMMENCEMENT

OVERALL STRUCTURE HEIGHT
1168.9' AMSL 160' AGL

TOWER HEIGHT
1178.9' AMSL 150' AGL

NOTE:
1.) THE ARCHITECT MAKES NO WARRANTY, EXPRESSED OR IMPLIED, OF THE ACCURACY OF THE STRUCTURAL ANALYSIS AND THE PERFORMANCE OF THE COMPLETED CONSTRUCTION AS SHOWN ON THESE DOCUMENTS AND THE STRUCTURAL ANALYSIS.

PROPOSED ANTENNAS, T-FRAMES & FEEDLINES TO BE INSTALLED IN ACCORDANCE W/ TOWER STUDY DATED 10/22/12 BY MEI INC. PROJECT #MN03673S-12V1 (REVISED TO INCLUDE AWS COAX)

ANTENNA TIP HEIGHT (CDMA & LTE)
1102.4' AMSL 94'-0" AGL
ANTENNA TIP HEIGHT (PCS & AWS)
999.9' AMSL 92'-6" AGL
ANTENNA CENTERLINE HEIGHT
1098.4' AMSL 90'-0" AGL

PROPOSED ANTENNAS AND T-FRAMES
EXISTING 145' TALL VALMONT SELF-SUPPORT TOWER

(24) PROPOSED (VZW) COAX RUNS MOUNTED TO TOWER ON PROPOSED COAX LADDER- SITEPRO1 #WCL12

PROPOSED CABLE BRIDGE (SEE A-5)
PROPOSED PREFABRICATED EQUIPMENT SHELTER (SEE A-4)

1 ELEVATION
SCALE: 1" = 20'

GRAPHIC SCALE
0 10' 20'

NOT FOR CONSTRUCTION

DESIGN 1

ROBERT J DAVIS, AIA
ARCHITECT
9973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
(952) 903-9299 FAX 903-9292

VERIZON WIRELESS

10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
(612) 720-0030

PROJECT

2012746699

MINC ROSEY

ALTA VISTA DRIVE
ROSEVILLE, MN 55113

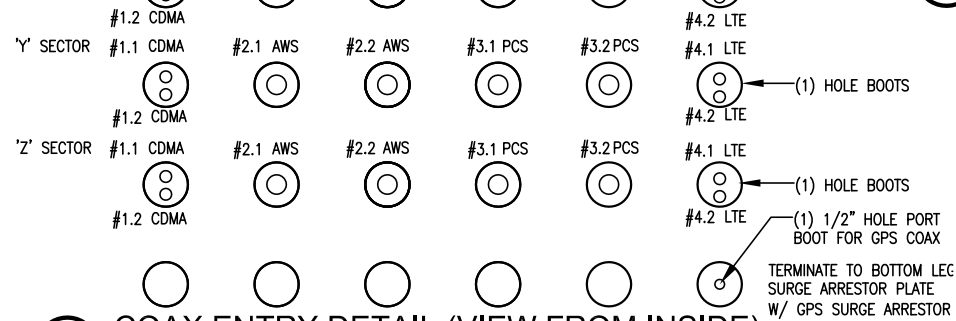
SHEET CONTENTS:
TOWER ELEVATION
COAX & ANTENNA KEY
GPS DETAIL & ELEVATION
ANTENNA MOUNTING DETAIL
COAX ENTRY DETAIL

DRAWN BY: JJB
DATE: 10-09-12
CHECKED BY: TRB
REV. A 10-09-12
REV. B 01-28-13
REV. C 02-20-13

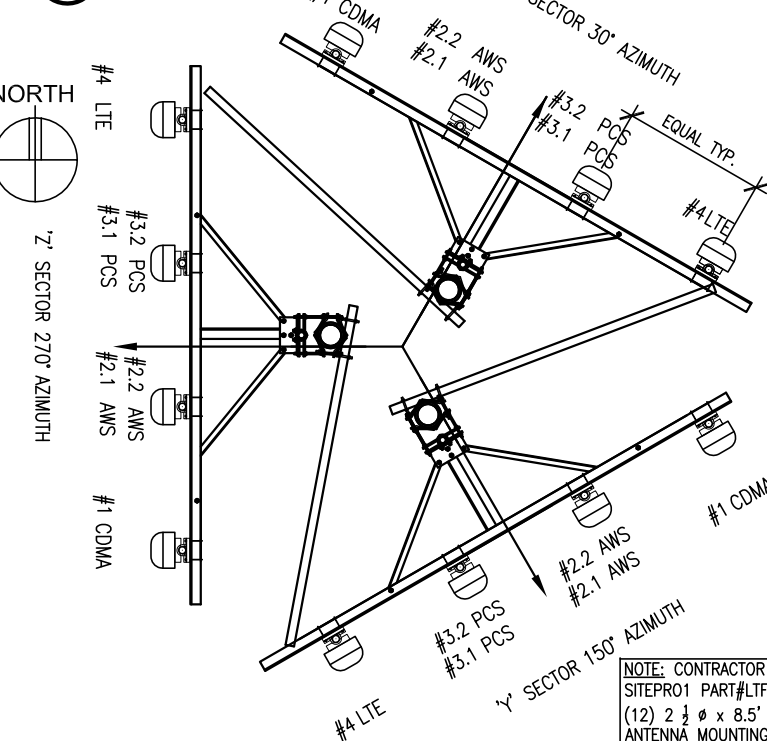
A-3

ANTENNA KEY
SCALE: NONE

COAX KEY
SCALE: NONE

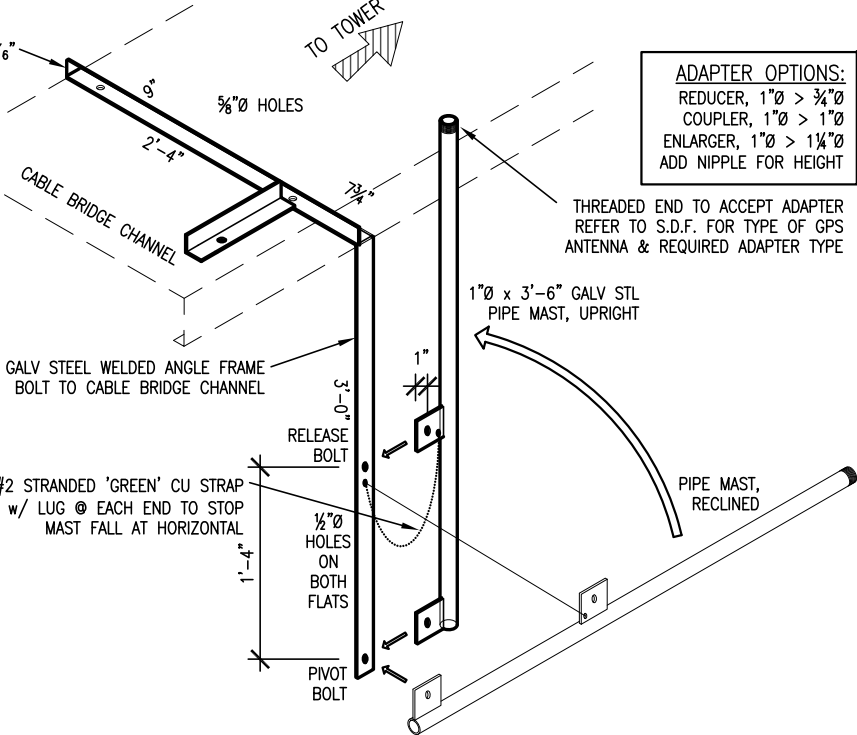


4 COAX ENTRY DETAIL (VIEW FROM INSIDE)
SCALE: NONE



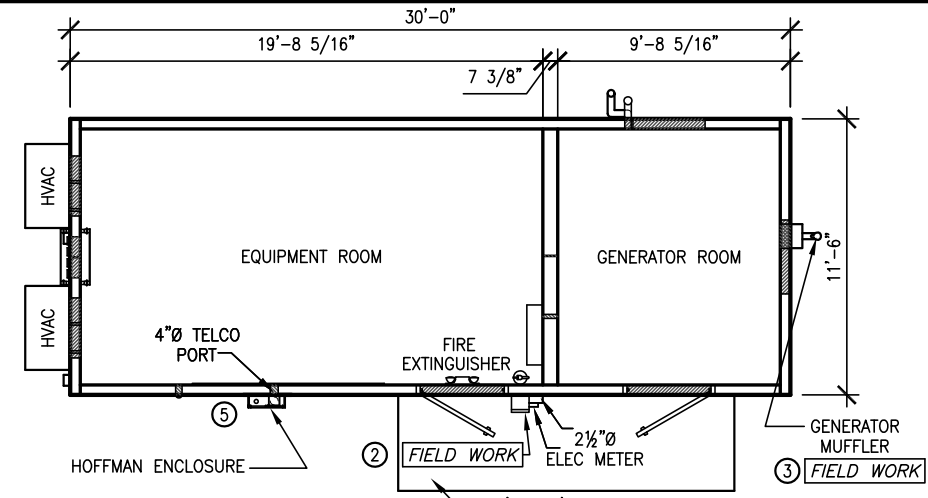
5 ANTENNA MOUNTING DETAIL
SCALE: 3/16" = 1'-0"

NOTE: CONTRACTOR TO PROVIDE SITEPRO1 PART#LTF12-496-NP & (12) 2 1/2" x 8.5' LONG, SCH 40 ANTENNA MOUNTING PIPES



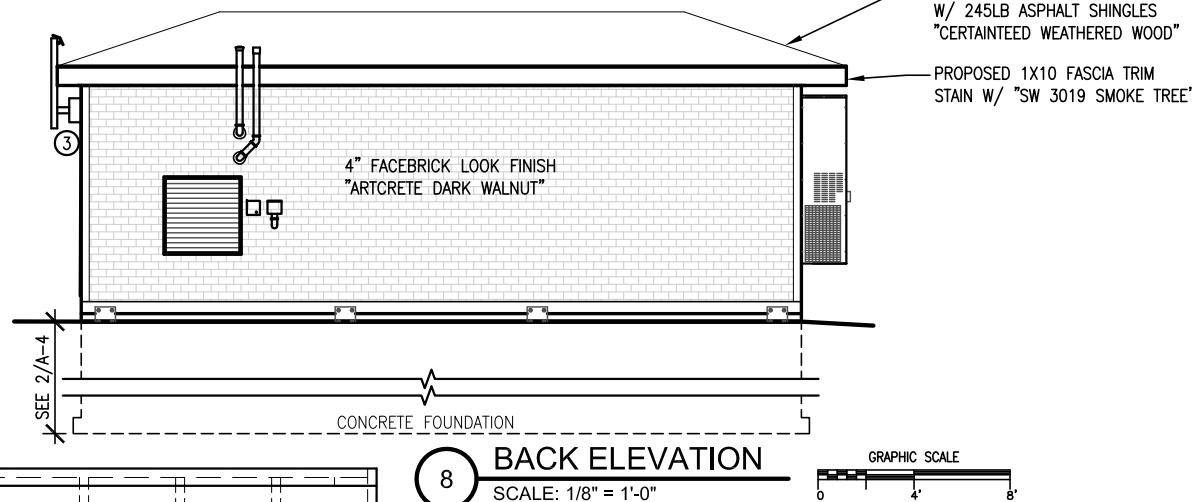
6 GPS MOUNTING DETAIL
SCALE: 3/4" = 1'-0"

GRAPHIC SCALE
0 5' 1'-0"

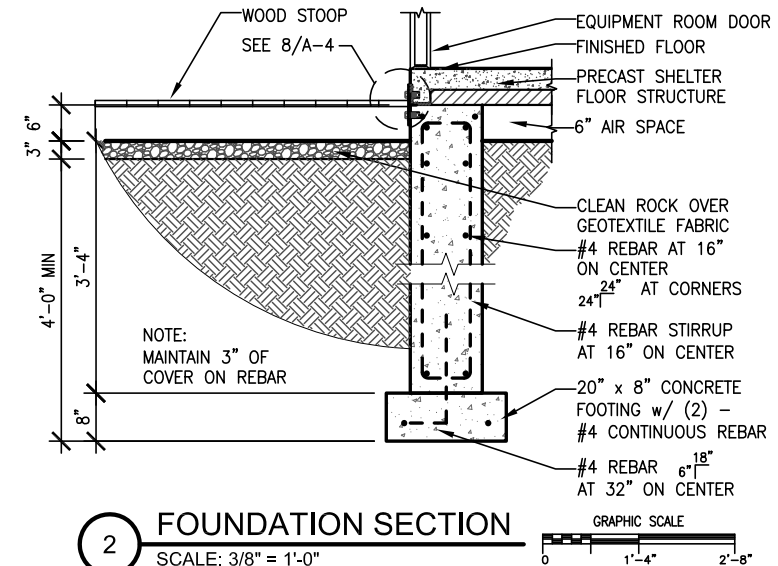


4 RIGHT ELEVATION
SCALE: 1/8" = 1'-0"

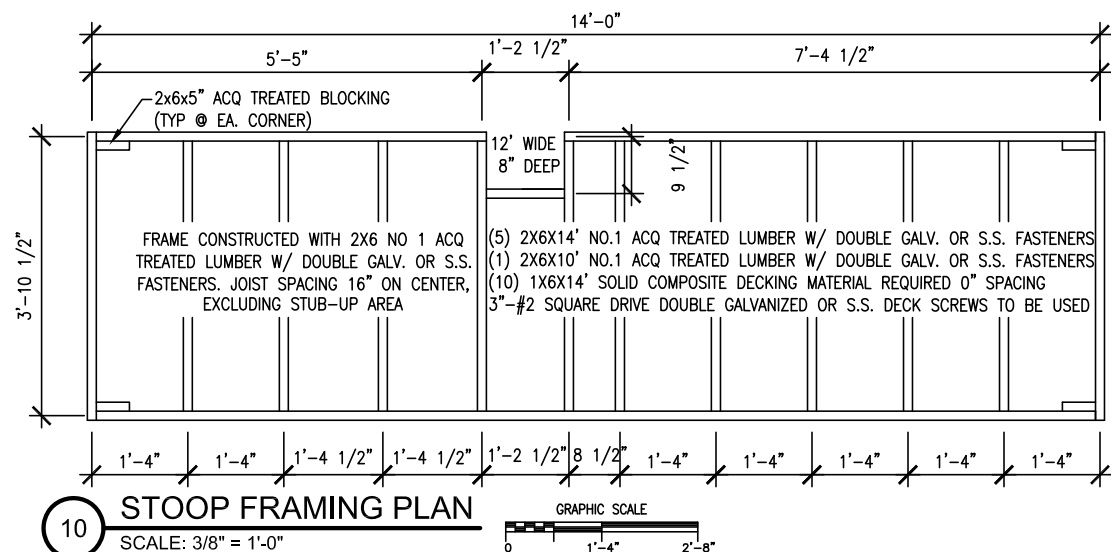
3 FLOOR PLAN
SCALE: 1/8" = 1' 0"



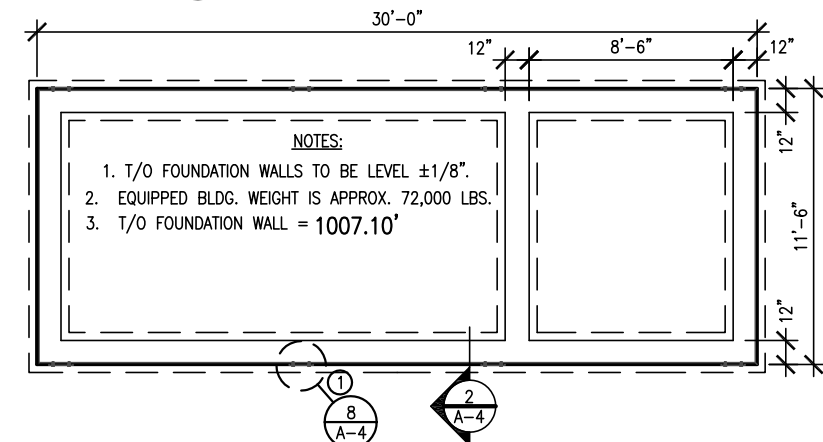
8 BACK ELEVATION
SCALE: 1/8" = 1'-0"



2 FOUNDATION SECTION
SCALE: 3/8" = 1'-0"



10 STOOP FRAMING PLAN
SCALE: 3/8" = 1'-0"

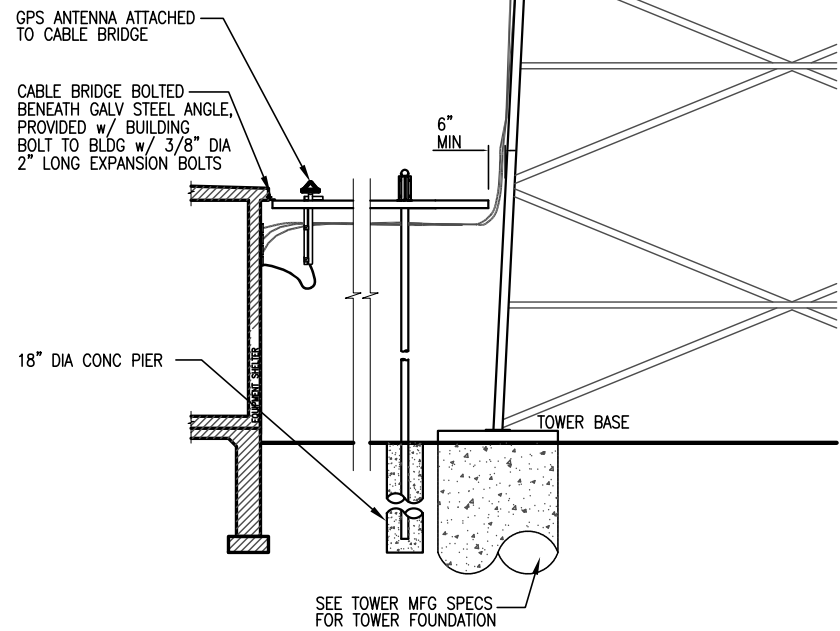


1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

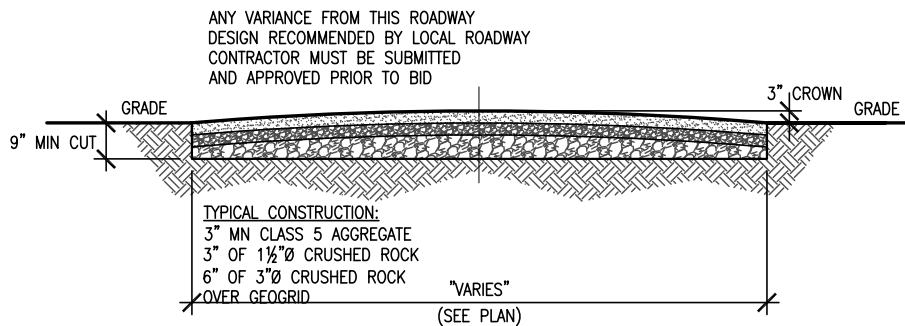
<u>FIELD-APPLIED ITEMS</u>	<u>CONTRACTOR-FURNISHED ITEMS</u>
SHIPPED LOOSE WITHIN PREFAB	
① ANCHORING PLATES	⑤ HOFFMAN ENCLOSURE (18" x 18" x 6")
② EXTERIOR LIGHT FIXTURE	⑥ PVC CONDUIT & FITTINGS
③ GENERATOR MUFFLER	
④ BUSS BAR	

PREFABRICATED BUILDING BY:
Fibrebond Corporation
 1300 Davenport Drive
 Minden, LA 71055
 800-824-2614
 ATTN: MIKE GOODWIN

A-4



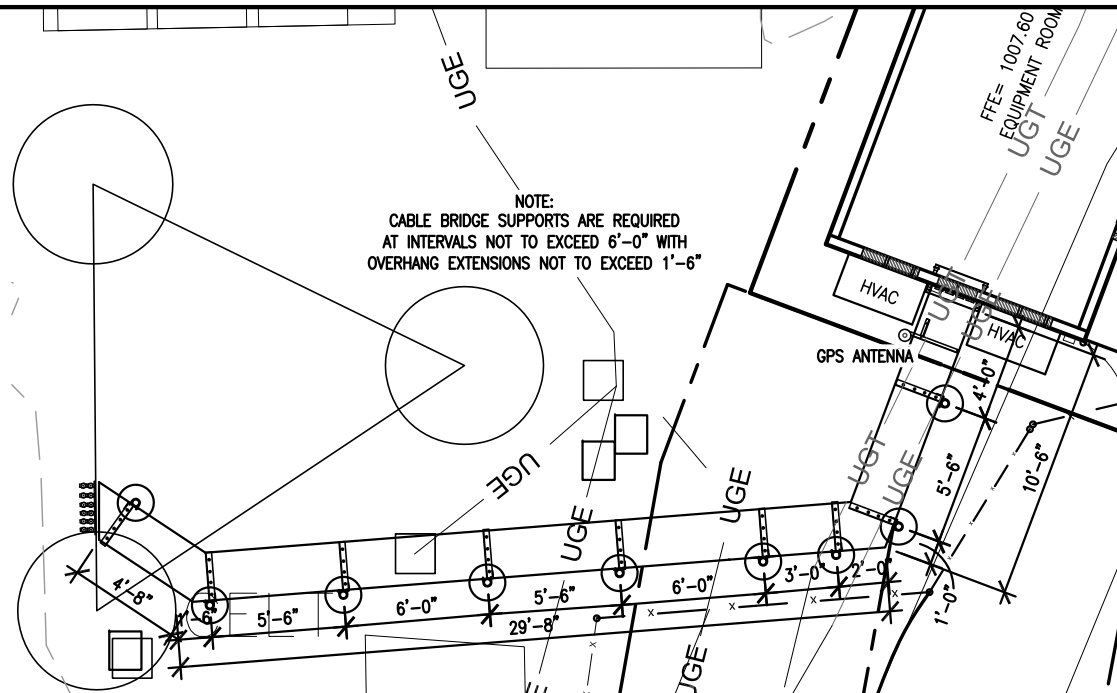
5 CABLE BRIDGE ELEVATION
SCALE: 1/8" = 1'-0"



6 GRAVEL ROAD SECTION
SCALE: 1/4" = 1'-0"



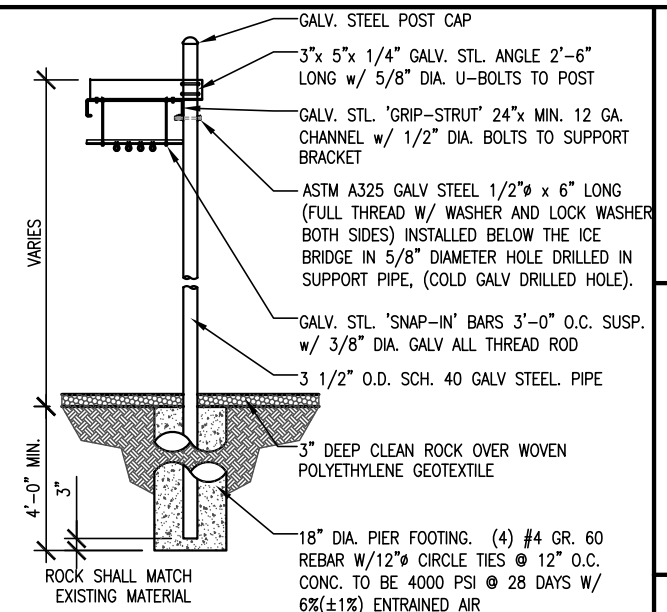
7 SITE PHOTO
SCALE: NONE



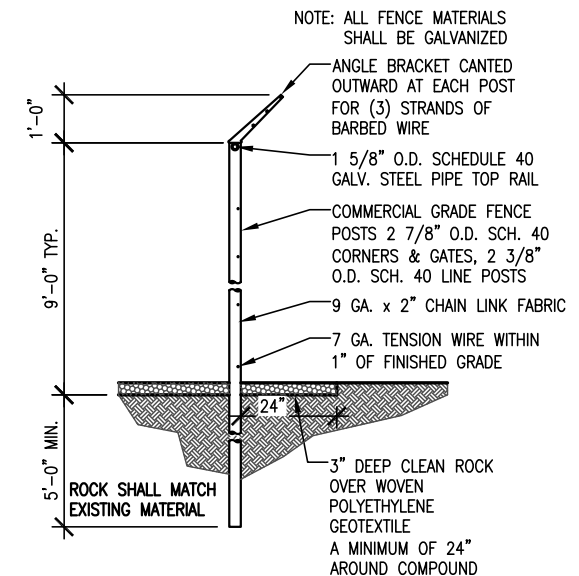
4 CABLE BRIDGE PLAN
SCALE: 1/8" = 1'-0"



8 TOWER PHOTO
SCALE: NONE



3 CABLE BRIDGE SECTION
SCALE: 1/4" = 1'-0"



2 FENCE SECTION
SCALE: 1/4" = 1'-0"

1 NOT USED
SCALE: 1/4" = 1'-0"

NOT FOR
CONSTRUCTION

DESIGN 1

ROBERT J DAVIS, AIA
ARCHITECT
9973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
(952) 903-9299 FAX 903-9292

**VERIZON
WIRELESS**

10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
(612) 720-0030

PROJECT

2012746699

**MINC
ROSEY**

ALTA VISTA DRIVE
ROSEVILLE, MN 55113

SHEET CONTENTS:

FENCE SECTION
CABLE BRIDGE SECTION
DRIVEWAY SECTION
MISC. DETAILS

DRAWN BY:	JJB
DATE:	10-09-12
CHECKED BY:	TRB
REV. A	10-09-12
REV. B	01-28-13
REV. C	02-20-13

A-5

GENERAL CONDITIONS 00 0001 PERMITS Construction Permit shall be acquired by, or in the name of, Verizon Wireless, to be hereinafter referred to as the OWNER. Other permits shall be acquired by the Contractor. 00 0002 SURVEY FEES Survey shall be furnished by the Architect. Layout Staking shall be coordinated with the Surveyor per "Request For Quote", (RFQ). 01 0010 INSURANCE & BONDS Contractor is to furnish Insurance certificates for themselves and subcontractors. Contractor will provide any required Bonding. Contractor agrees to warranty the project for (1) one year after completion. 01 0400 SUPERVISION & COORDINATION Contractor shall provide supervision throughout the Project, coordinating the work of the Subcontractors, and delivery & installation of Owner–furnished items. Contractor’s responsibilities include arranging & conducting of Underground Utilities Locates. Contractor shall comply with municipal, county, state and/or federal codes, including OSHA. 01 0600 TESTING Contractor is responsible for providing Agencies with sufficient notice to arrange for Test Samples (i.e.: Concrete Cylinders), and for Special Inspections. 01 2000 MEETINGS Contractor shall make themselves aware of, and attend, meetings with the Owner and/or Architect. Contractor is to attend a Pre–Construction Meeting of all parties involved, prior to the start of construction. 01 5100 TEMPORARY UTILITIES Contractor shall maintain the job site in a clean and orderly fashion, providing temporary sanitary facilities, waste disposal, and security (fence area or trailer module). 01 5300 EQUIPMENT RENTAL Contractor shall furnish equipment necessary to expedite work. 01 5900 FIELD OFFICES & SHEDS Contractor shall provide security (fence area or trailer module) for tools and materials that remain overnight on site. 01 7000 CLEAN UP & CLOSE OUT Contractor shall clean up the Site to the satisfaction of Owner. Contractor shall complete the items listed on the Owner’s Punch List, and shall sign and return the List to the Owner. Contractor shall maintain a set of drawings during the job, on which changes shall be noted in red ink. A full set of redlined drawings (As–Builts) are to be given to the Architect at Job completion and submit "construction work complete memo" to Construction Engineer. 01 8000 TRUCKS & MILEAGE Contractor shall provide transportation for their own personnel. 01 8300 TRAVEL TIME & PER DIEM Contractor shall provide room and board for their own personnel, and reasonable time for traveling to & from job site. 01 9200 TAXES Contractor shall pay sales and/or use tax on materials and taxable services. SITework 02 1000 SITE PREPARATION & DEMOLITION Contractor is to mobilize within 7 calendar days of the Owner issuing a 'START' document. Contractor will immediately report to Architect if any environmental considerations arise. Site shall be scraped to a depth of 3" minimum to remove vegetative matter, and scrapings shall be stockpiled on site. Excess material to be disposed of in accordance with RFQ. 02 1100 ROAD IMPROVEMENT & CONSTRUCTION Contractor shall furnish materials for, and install, a gravel roadway from the road access to the work area, for truck and crane access to site. Base course shall be 6" deep, 3"+ crushed rock over geogrid, topped with 3" deep, 1½" crushed rock, topped with 3" deep MN Class 5, (¾" minus with binder) or Driveway Mix. Contractor shall obtain city, county, state and/or federal approvals for road approach. Road shall be graded smooth, and edges dressed, at job completion. 02 2000 EARTHWORK & EXCAVATION Excavation material shall be used for surface grading as necessary; excess to be stockpiled on site. Excess material to be disposed of in accordance with RFQ. For dewatering excavated areas, contractor shall utilize sock or sediment filter for filtering of water discharge. 02 5000 PAVING & SURFACING Gravel paving shall be as described in 02 8000. 02 7800 POWER TO SITE Contractor shall coordinate the electrical service to the building with the Utility Provider. Conduits shall include pull strings. Underground conduits shall be 2–1/2" Schedule 40 PVC. (schedule 80 PVC under roads and drives) Cable to be 3/0 THWN CU. Trenches shall be backfilled in a timely fashion, using a compactor, and including two (2) detectable ribbons; one each at 3" and 15" above conduit. Service shall be 200 amp, single phase, 120/240 volt. Service type shall be "General Time–Of–Day" if available, and meter base shall be approved by utility provider.	02 7900 TELCO TO SITE Contractor shall provide 2" schedule 40 PVC conduit, (schedule 80 PVC under roads and drives) with 'large sweep' elbows & pull string for TELCO service as noted on plans. Cable to be fiber optic lines, source and provider T.B.D. Trenches shall be as in 02 7800. 02 8000 SITE IMPROVEMENTS Areas bounded by fence and adjacent to shelter shall receive polyethylene geotextile, 200 mesh woven, topped with 3" deep ¾" to 1 1/2" clean rock (no fines), raked smooth. 02 8001 FENCING All fence materials and fittings shall be galvanized steel to match existing. Fence shall be 9'–0" high x 9 ga. X 2" chain link fabric, w/ 7 ga. bottom tension wire. Corner and Gate posts shall be 2 7/8" O.D. sch 40 steel pipe, driven 48" below grade. Line posts shall be 2 3/8" O.D. sch 40 steel pipe. Top Rails shall be 1 5/8" O.D. steel pipe. Gate frames shall be 1 5/8" O.D. welded pipe. Fence top shall be three (3) strands barbed wire to 7'–0" above grade, canted outward. Bracing shall be 3/8" truss rods and 1 5/8" O.D. pipe mid–rails at corners. Gate latch shall be commercial grade, "Cargo" or equal. Fabric shall extend to within 1" of finish grade. Existing fences shall be protected against damage during this work, and any damage that may occur shall be repaired or replaced to equal existing preconstruction condition. 02 8500 IRRIGATION SYSTEMS N/A 02 9000 LANDSCAPING Contractor to restore turf areas damaged by construction by preparing soil, seeding & watering to maintain grass survival for 1 year. Contractor shall protect existing landscape elements that are not in the Scope of Work. Reasonable precautions shall be taken to assure the health of existing trees and shrubbery. If conflicts arise regarding the location of root systems, branch lines, etc., the Architect must be contacted prior to performing Work that may cause damage. Damage resulting from disregard of this Article shall be compensated by the Responsible Party and at a cost to be determined by the Property Owner, Architect, and Owner. CONCRETE 03 1000 CONCRETE FORMWORK Concrete forms shall be dimension lumber, modular, or steel. 03 6000 GROUT N/A 03 8000 TOWER FOUNDATION N/A 03 8001 CATHODIC PROTECTION N/A 03 8050 ANTENNA MOUNTS Contractor to furnish and install antenna mounts. Contractor shall ensure the existence of a 3/8" cable safety climb (DBI/Sala or equal) on the Tower. 03 9000 SHELTER FOUNDATION Contractor shall furnish & install materials for Shelter foundation. Concrete shall be 6% ±1% air entrained, and 4,000 psi at 28 days. All reinforcing steel is to be Grade 60 (ASTM 615). Anchor bolts are furnished by Contractor. Contractor shall comply with the Owner’s Standard CONSTRUCTION SPECIFICATIONS MINIMUM CONCRETE STANDARDS. 03 9050 TRANSPORT AND SET SHELTER Contractor shall provide crane(s) and/or truck for setting shelter per RFQ. Contractor shall install items shipped loose within shelter, including but not limited to: exterior light and sensor and buss bars. MASONRY 04 0000 MASONRY N/A METALS 05 0000 METALS Contractor will furnish and install structural and fabricated steel items not specifically furnished by Owner, and install Owner–furnished items. Structural steel shall be fabricated and erected per AISC specifications. Welding shall conform to AWS standards. Field welding shall be as shown on Shop Drawings, performed by AWS Certified Welders, and inspected as prescribed by the Structural Engineer. Steel shall be ASTM A992 OR A36, and ¾" field bolts shall be A325. Temporary erecting bolts, clip hangers, and bracing shall be furnished by Contractor. Fabrications shall be shop welded if possible, and galvanized before delivery to site. Contractor shall ensure the existence of a 3/8" cable safety climb system (DBI/SALA or equal) on tower.	WOOD & PLASTICS 06 1000 ROUGH CARPENTRY Contractor shall provide materials, labor for wood stoops per architectural documents, see sheet A–4. 06 2000 FINISH CARPENTRY N/A THERMAL & MOISTURE 07 2000 INSULATION N/A 07 2500 FIREPROOFING N/A 07 3000 SHINGLES AND ROOFING TILES N/A 07 5000 MEMBRANE ROOFING N/A 07 6000 FLASHING AND SHEET METAL N/A DOORS AND HARDWARE 08 0000 DOORS AND HARDWARE PREFAB: Door is furnished and installed by Prefab Manufacturer with 'Construction' key core. FINISHES 09 2600 DRYWALL N/A 09 5700 FLOOR COVERING N/A 09 9000 PAINTING Touchup paint construction related scapes & scratches.	SPECIAL CONSTRUCTION 13 1250 WAVE GUIDE, (Coaxial Cables) LDF4–50A = 1/2" nominal, .63 in. actual diameter; 5" min. bending radius; .15 lbs/ft AVAS–50 = 7/8" nominal, 1.102 in. actual dia.; 10" min. bending radius; .30 lbs/ft AWA7–50 = 1 5/8" nominal, 1.98 in. actual dia.; 15" min. bending radius; .72 lbs/ft 13 1260 CABLE BRIDGE Cable bridge to be 24 inch wide, 12 gauge, 'grip strut' supported no more than 6'–0" on center by 3 1/2" steel pipe and 3" x 5" x 1/4" x 30" long angle. Cable bridge overhang extentions not to exceed 1'–6". Steel to be hot dipped galvanized. 13 1400 ANTENNA INSTALL Contractor shall install Owner’s antennas and feed lines during erecting. Contractor shall sweep coax lines for continuity per VZW standards. MECHANICAL 15 4000 PLUMBING N/A 15 5000 HVAC PREFAB: Shelter is factory–equipped with two through–wall package units of 5–ton and 10 KW capacity. ELECTRIC 16 5000 LIGHTING AND ELECTRICAL Contractor shall perform work as described on the Electrical Plans. Contractor shall provide labor and materials as necessary to complete the work shown on plans. 16 6000 GROUNDING Contractor shall make themselves familiar with and follow the current GROUNDING STANDARDS of VERIZON WIRELESS. Contractor shall perform work as shown on Grounding Plans. Any site–specific grounding issues not covered by the GROUNDING STANDARD are to be addressed by the Contractor to the Owner. OWNER–FURNISHED EQUIPMENT & FEES PREFABRICATED EQUIPMENT SHELTER COAXIAL CABLES ANTENNAS AND DOWNTILT BRACKETS BUILDING PERMIT FEE MATERIALS TESTING FEES SPECIAL INSPECTIONS FEES CONTRACTOR–FURNISHED EQUIPMENT POWER TO SITE, TELCO TO SITE. CABLE BRIDGE T–FRAMES CONNECTORS, BOOTS, RELATED HARDWARE WOOD STOOP FENCING GRAVEL SCOPE OF WORK: CONTRACTOR SHALL PROVIDE MATERIALS, LABOR, TOOLS, TRANSPORTATION, SUPERVISION, ETC. TO FULLY EXECUTE WORK. WORK REQUIREMENTS ARE DETAILED ON THE DRAWINGS AND SPECIFICATIONS AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS: SITE PREPARATION SITE WORK AND ROAD CONSTRUCTION SHELTER FOUNDATION SITE GROUNDING ELECTRICAL AND TELEPHONE SERVICES SET SHELTER INSTALL ANTENNAS & CABLES CABLE BRIDGE GRAVEL SURFACING AND FENCING TREE REMOVAL Contractor to compare drawings against Owner’s "Request for Quote", (RFQ). If discrepancies arise, Contractor shall verify with Owner that the RFQ supersedes the drawings.	NOT FOR CONSTRUCTION DESIGN 1 ROBERT J DAVIS, AIA ARCHITECT 9973 VALLEY VIEW RD. EDEN PRAIRIE, MN 55344 (952) 903-9299 FAX 903-9292 VERIZON WIRELESS 10801 BUSH LAKE ROAD BLOOMINGTON, MN 55438 (612) 720-0030	PROJECT 2012746699 MINC ROSEY ALTA VISTA DRIVE ROSEVILLE, MN 55113	SHEET CONTENTS: OUTLINE SPECIFICATIONS DRAWN BY: JJB DATE: 10-09-12 CHECKED BY: TRB REV. A 10-09-12 REV. B 01-28-13 REV. C 02-20-13 A-6
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LANDSCAPE LEGEND

SYMBOL	QUANTITY	SPECIES	BOTANICAL NAME
	4	TECHNY GLOBE ARBORVITAE – 3 GAL	"THUJA OCCIDENTALIS"
	3	TECHNY ARBORVITAE 4' BB	"THUJA OCCIDENTALIS TECHNY"
	8	ANTHONY WATERER SPIREA 3 GAL	"SPIREA X BUMALDA"

NOTE:
EVERGREEN TREE – GROUND LINE TO BE THE SAME AS EXISTED AT THE NURSERY.
GARDEN HOSE

3 GUYS OF 10 GAUGE TWISTED WIRE 120 DEGREES APART AROUND TREE.
TURNBUCKLE

4" SOIL SAUCER

24"x2"x2" STAKE DRIVEN FLUSH WITH FINISHED GRADE.

2 1/2" DIA. – 10' LONG CEDAR STAKE WITH NOTCHED END (7" EXPOSED) – 2 PER TREE.
FOLD BACK BURLAP FROM TOP OF BALL.

2" MULCH
BACKFILL WITH TOP SOIL AND PEAT MOSS 3:1 RATIO BY VOLUME IN 9" LAYERS.
WATER EACH LAYER UNTIL SETTLED.

LOOSEN SUBSOIL

2 PLATING DETAIL
SCALE: 1/8" = 1'-0"



BACKFILL W/ TOPSOIL & PEAT MOSS 3:1 RATIO

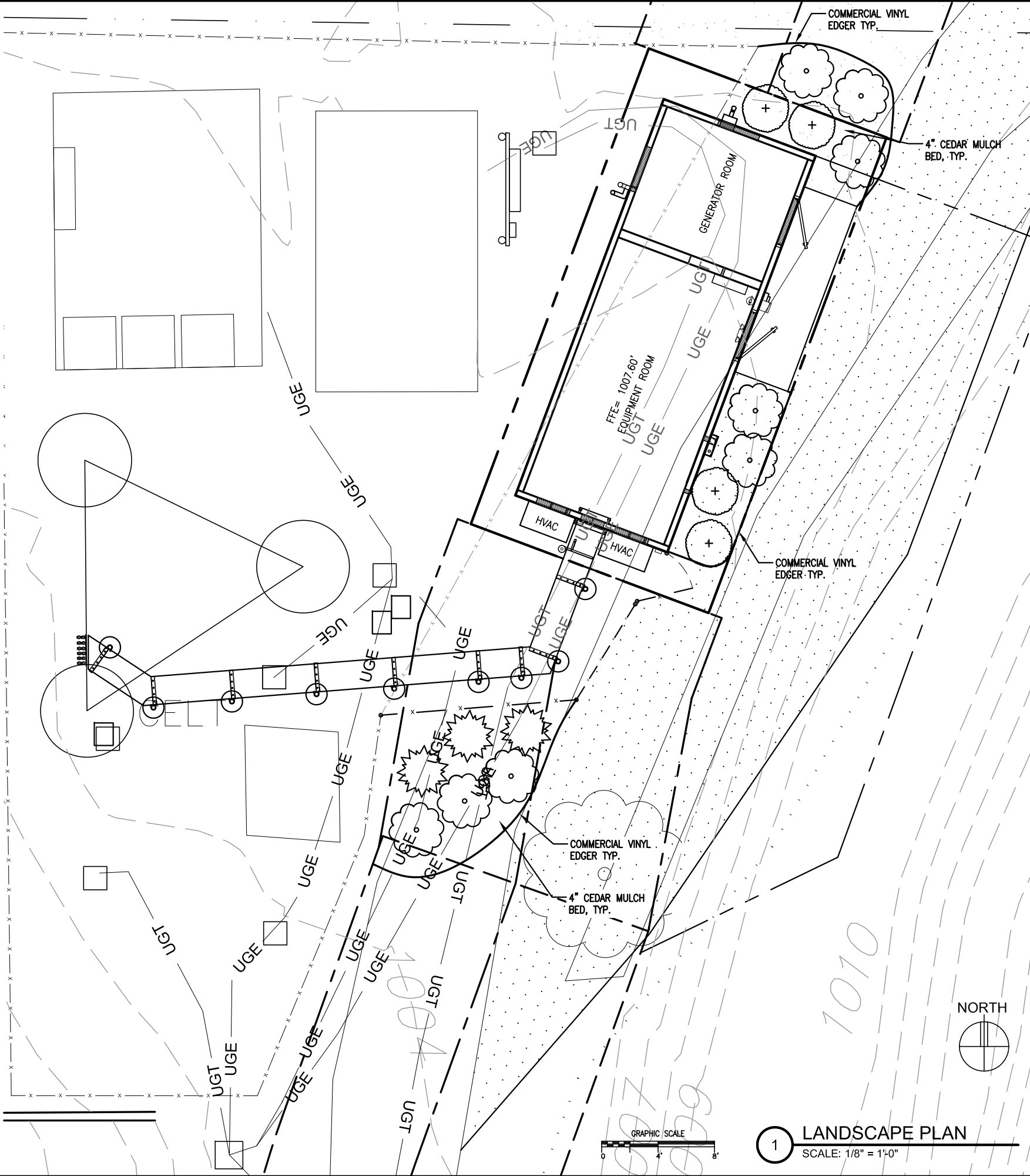
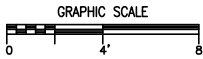
BACKFILL MIXTURE

FINISH GRADE

NO DEEPER THAN THE DEPTH OF THE CONTAINER AND WALLS OF UNDISTURBED SOIL SHOULD BE ROUGH AND SLOPING.

EXCAVATE 3 TO 5 TIMES THE WIDTH OF THE ROOT BALL.

3 PLANTING DETAIL
SCALE: 1/8" = 1'-0"



1 LANDSCAPE PLAN
SCALE: 1/8" = 1'-0"



NOT FOR
CONSTRUCTION

DESIGN 1

ROBERT J DAVIS, AIA
ARCHITECT
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VERIZON
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PROJECT

2012746699

MINC
ROSEY

ALTA VISTA DRIVE
ROSEVILLE, MN 55113

SHEET CONTENTS:
LANDSCAPE PLAN DETAILS

DRAWN BY:	JJB
DATE:	10-09-12
CHECKED BY:	TRB
REV. A	10-09-12
REV. B	01-28-13
REV. C	02-20-13

L-1

GENERAL GROUNDING NOTES:

An external buried ground ring (Lead 1) shall be established around the equipment shelter and tower foundations. Lead 1 shall be kept 24" from foundations; if foundations are less than 48" apart, keep Lead 1 centered between them. If the tower base is over 20'-0" from the equipment shelter, a separate Lead 1 shall be established around each foundation, and the two Lead 1s shall be bonded with two parallel leads at least 6 feet apart horizontally. Connections between the two Lead 1s shall be bi-directional.

All subgrade connections shall be by exothermic weld, brazed weld, or gas-tight UL467-listed compression fittings pre-filled with anti-oxidant compound. Subgrade connections shall not be 'cold galvanize' coated.

Lead 1 shall be #2 solid bare tin-clad (SBTC) copper wire buried at local frost depth. Lead 1 bends shall be minimum 24" radius. 'Whip' lead bends may be of 12" radius.

Ground rods shall be galvanized steel, 5/8"Ø, spaced ten feet apart, or as shown. Rods shall be kept min. 24 inches from foundations. Ground rods are required to be installed at their full specified length. Depth shall be as shown in Detail 1/G1.

SPECIAL CONSIDERATIONS FOR GROUND RODS:

When ground rods are not specified to be backfilled w/ Bentonite Slurry: If boulders, bedrock, or other obstructions prevent driving of ground rods, the Contractor will need to have drilling equipment bore a hole for ground rod placement. Hole to be backfilled w/ Bentonite Slurry.

When specified with slurried Bentonite encasement, drilling equipment will be need to be used to be bore a hole for ground rod placement. Slurry shall be made from pelletized material ("Grounding Gravel"); powdered Bentonite is not allowed. If boulders, bedrock, or other obstructions are found, Contractor shall drill to the specified depth and provide Bentonite encasements.

Above-grade connections shall be by lugs w/ two-hole tongues unless noted otherwise, joined to solid leads by welding (*T&B 54856BE "BROWN"*), self-threading (*RECOGNIZED, EM 2522DH.75.312*), or 10,000psi crimping (*BURNDY YA3C 2TC 14E2*). Surfaces that are galvanized or coated shall have coating(s) removed prior to bolting. Bolts shall be stainless steel with flat washers on each side of the connection and a lock washer beneath the fastening nut. Star-tooth washers shall be used between lug & dissimilar metal (copper-to-steel, etc) but are not required between tin-clad CU lugs & tin-clad CU bus bars. Lug tongues shall be coated with anti-oxidant compound, and excess compound wiped clean after bolting. The connection shall then be coated with cold-galvanizing compound, or with color-matching paint.

Ground bars exposed to weather shall be tin-clad copper, and shall be clean of any oxidation prior to lug bolting.

Galvanized items shall have zinc removed within 1" of weld area, and below lug surface contact area. After welding or bolting, the joint shall be coated with cold galvanizing compound.

Ground Bar leads

Ground bars are isolated electrically from tower bottoms and equipment shelters by their standoff mounts. Leads from each ground bar to the ground ring shall be a pair of #2 SBTC, each connected to Lead 1 bi-directionally with #2 SBTC 'jumpers'. Pairs of #2 SBTC may be required between ground bars. Leads shall be routed to ground bars as follows:

- * The Main Ground Bar (MGB), typically mounted inside on the equipment shelter 'back' wall.
- * The Entry Cable Port Ground Bars (ECPGB), mounted inside and outside on the equipment shelter walls beneath the transmission line port. Note: Transmission line grounds also attach to the ECPGBs.
- * The Transmission Line Ground Bar (TGB) mounted at the base of the tower to which the transmission line grounds are attached. Transmission line grounds also attach to the TGBs.

NOTE: Contractor shall confirm that TGBs exist at 75-foot vertical intervals on any guyed or self-support tower, and that transmission lines are grounded to each TGB. Only the bottom-most TGB is isolated from the tower steel frame; upper TGBs may use the tower steel frame as common ground, requiring no copper leads between TGBs.

#2 SBTC Whip leads

"Whip" leads shall connect the buried external ground ring to the following items:

Monopole Towers:

* Three whips to flanges on the monopole base, at least 90' apart. If none are provided, attach to the baseplate or consult tower manufacturer.

Self-Support Towers:

* Two whips to flange(s) on each tower leg base. If none are provided, attach to the baseplate or consult tower manufacturer.

Guyed Towers:

- * Two whips to flange(s) on the tower base. If none are provided, attach to the baseplate or consult tower manufacturer.
- * Establish a Lead 1 within the fence enclosure of each guy anchor, at least 40 foot perimeter and having 4 ground rods.
- * #2 SBTC leads shall extend up, and be clamped (bronze clamshell or equal), to any two guy wires. NEVER weld leads to the guy wires. The lead to the guy anchor 'hand' plate may be welded.

Fences:

- Metallic fence within 25 feet of tower Lead 1, or within 6 feet of shelter lead 1, shall have whip leads as follows:
- * Each corner post.
- * Each pair of gate posts.
- * Any line post over 20'-0" from a grounded post.
- * Each gate leaf to its respective gatepost using braided strap (3/4", tin-clad copper w/ lug ends).
- * Fences around guy anchors shall be grounded in similar fashion.

Fuel tanks:

NEVER WELD to any fuel enclosure. NEVER penetrate the fuel containment. Metal tanks shall have one whip lead attached. Use an approved clamp or two-hole lug on an available flange.

Equipment Shelter and Other General Requirements:

- * Extend new Lead 21B up to shelter halo, remaking two-way connections as needed. Generator-equipped shelters have 6 such connections. Connections within the shelter shall be by compression; NEVER weld inside the shelter.
- * Each vertical support pipe of the exterior cable bridge. Bridge end shall be kept at least 6" from the tower structure. The cable bridge shall be jumpered to the vertical support pipes with #2 SBTC at each vertical support pipe.
- * Opposite corners of the roof shield over the equipment shelter.
- * Each HVAC unit shield, if separate (may be 'jumpered' to main roof shield).
- * Each HVAC package unit.
- * Commercial electric meter box.
- * Generator receptacle, if present.
- * Steel building skid, if shelter is metal frame.
- * Each air intake or exhaust fan vent louver.
- * Each generator vent hood or louver.
- * Generator exhaust stack, external.
- * Opposite corners of generator support frame, if separate from shelter.
- * Generator fuel tank, if separate from generator unit.
- * Host building rain gutter, downspouts, and roof flashings within 25 feet.
- * Telco MPOP (Main Point of Presence), if external to equipment shelter.
- * Within cable vaults, one each to the ladder and to the manhole rim.

Note: The door frame is connected to the interior ground halo, and need no separate connection to the external ground ring.

Inspection & Testing

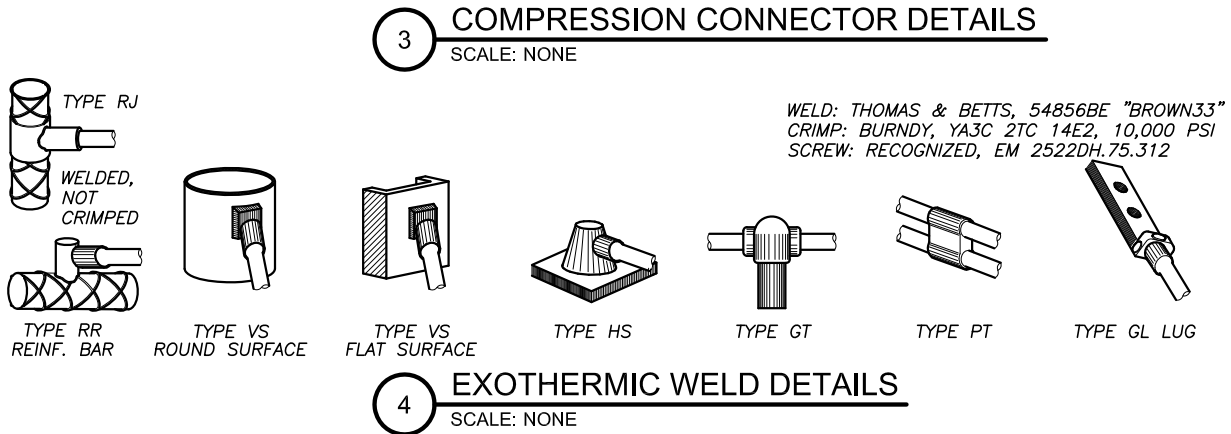
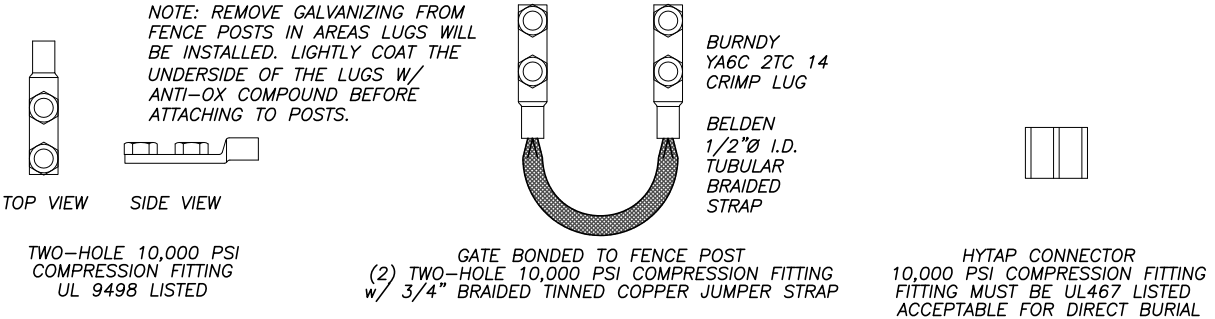
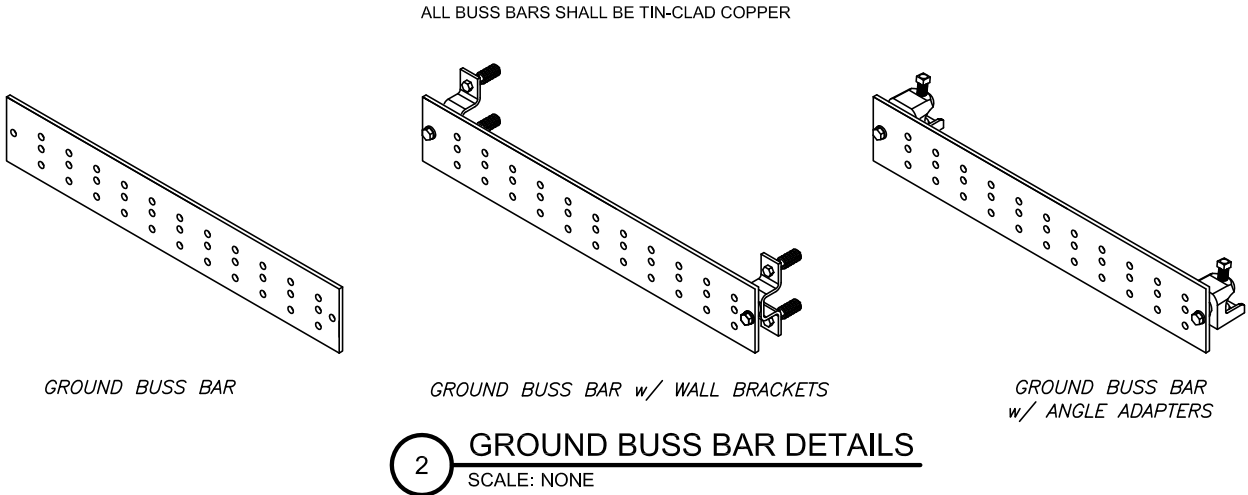
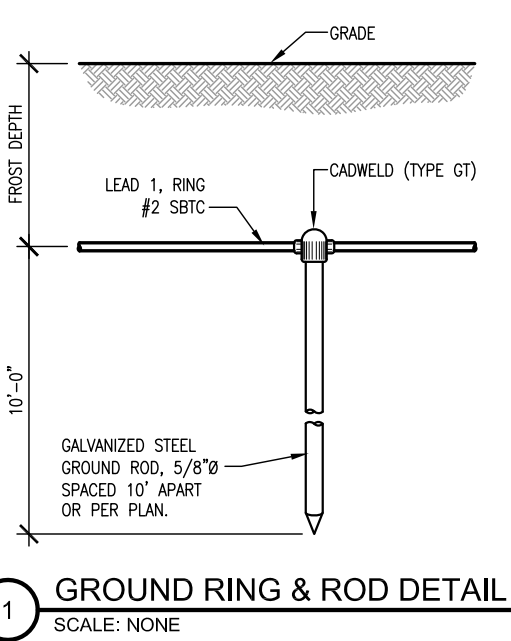
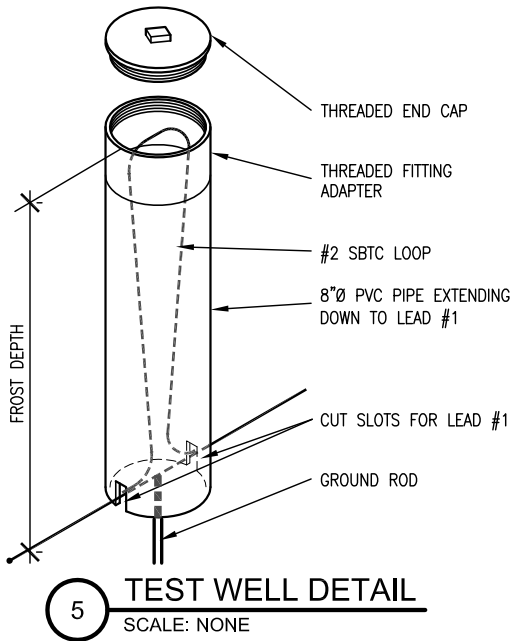
Test lead #1 and ground rods after installation but before backfilling or connecting to any other grounding, using the 3-point fall of potential method. Contractor to notify Verizon Wireless senior construction engineer at least 48 hours prior to testing. Document installation and test results with photographs.

SYMBOL AND NOTE LEGEND

- ① #2 SBTC AROUND SHELTER, TOWER, OR GUY ANCHOR
- 5/8" X 10'-0" GALVANIZED STEEL GROUND ROD
- ⊙ TEST WELL PREFERRED LOCATION
- #2 SBTC 'WHIP' LEAD
- ⑤ (2) #2 SBTC FROM MGB, PGB, OR TGB TO LEAD 1
- ⑥ AC HVAC UNIT
- ②1B BC BUILDING CORNER
- ⑥ BO BOLLARD
- ⑥ CBS CABLE BRIDGE SUPPORT POST
- ⑥ FAN GUY ANCHOR PLATE
- ⑥ FP FENCE POST
- ⤿ GP GATE POST, 3/4" BRAID STRAP TO LEAF
- ⑥ GUY GUY WIRE, MECH. CLAMP ONLY - NO WELDS
- ⑥ HL HOOD OR LOUVER
- ⑥ HB OUTSIDE OF HOFFMAN BOX
- ⑥ EM COMMERCIAL ELECTRICAL METER
- ④ EL ELECTRICAL SERVICE GROUND
- ⑥ MU GENERATOR MUFFLER
- ⑥ RBR FOUNDATION REINFORCING
- ⑥ SP STEEL POST
- ⑥ TEL HOFFMAN BOX
- ⑥ TWR TOWER BASE
- ⑥ VP DIESEL FUEL VENT PIPE

Note:

Contractor to provide #2 solid bare tin-clad (SBTC) copper wire lead from #1 ground ring to air conditioner & ice shield if provided by VZW.



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DESIGN 1

ROBERT J DAVIS, AIA
ARCHITECT
9973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
(952) 903-9299 FAX 903-9292

VERIZON
WIRELESS

10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
(612) 720-0030

PROJECT

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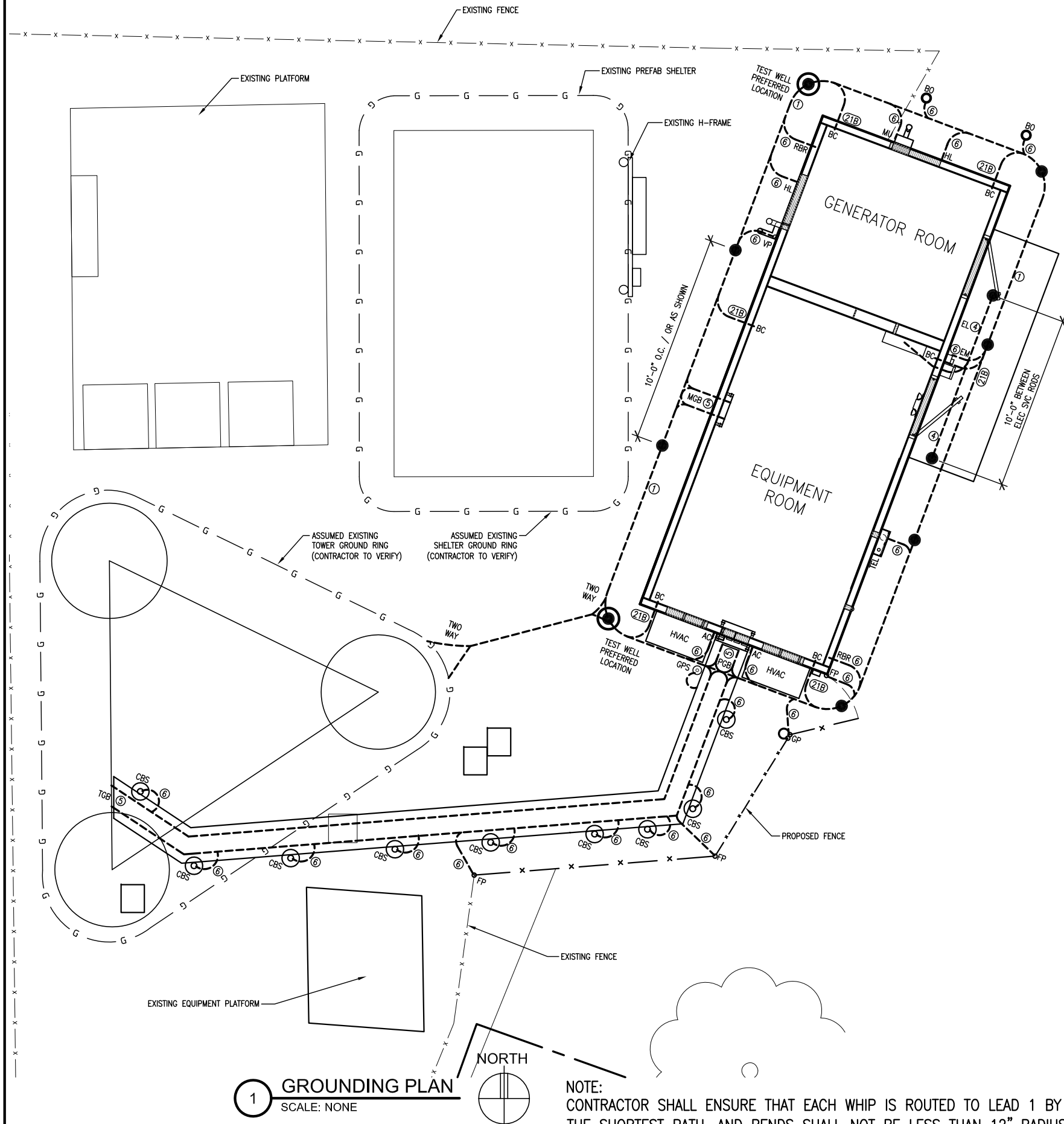
1901 ALTA VISTA DRIVE
ROSEVILLE, MN 55113

SHEET CONTENTS:

GENERAL NOTES
GROUND RING & ROD DETAIL
BUSS BAR DETAILS
CONNECTOR DETAILS
EXOTHERMIC WELD DETAILS
TEST WELL DETAIL

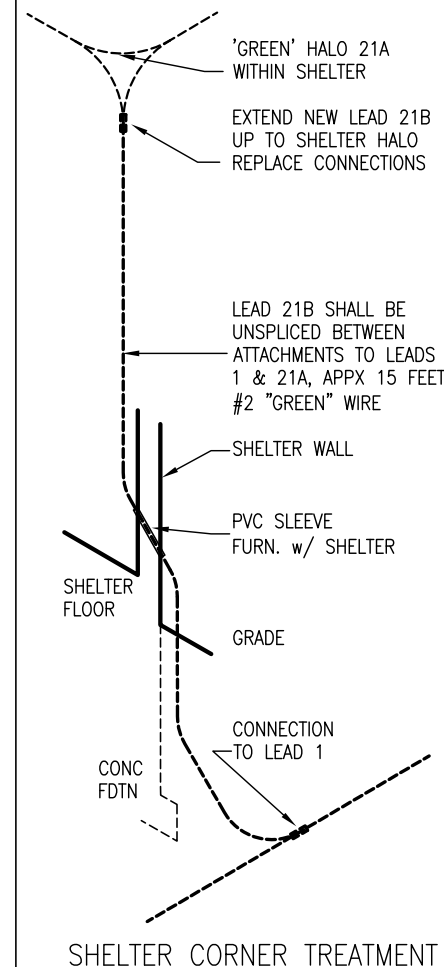
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DATE:	10-08-12
CHECKED BY:	CDB
REV. A	10-08-12
REV. B	01-28-13
REV. C	02-20-13

G-1

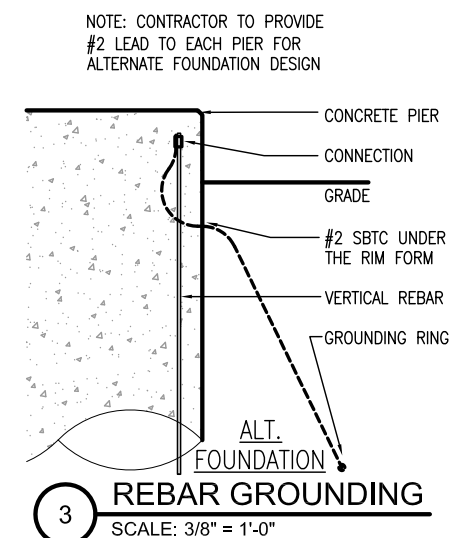
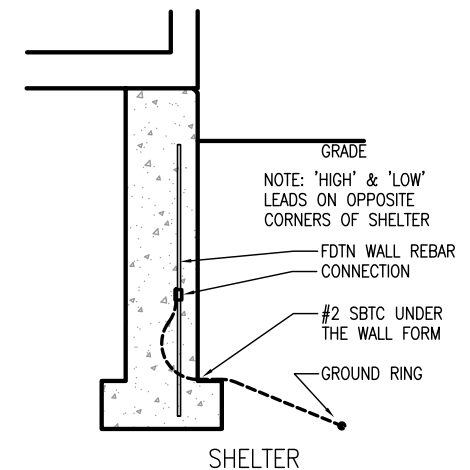


LEAD IDENTIFICATION & DESCRIPTION:

1 RING, EXTERNAL BURIED w/ RODS	#2 SBTC
1A RING, CONCRETE ENCASED	#2 SBTC
2 DEEP ANODE (TO IMPROVE OHMS)	ROD OR PIPE
3 RING TO BLDG STL FRAME	#2 SBTC
4 MAIN AC PANEL NEUTRAL BUS TO (2) RODS, ISOLATED FROM LEAD #1	NEC 250.66
5 RING TO GROUND BAR	(2) #2 SBTC
6 RING TO EXT MTL OBJECT	#2 SBTC
7 DEEP ANODE TO MGB	NSTD33-9
8 AC PANEL TO WATER METER	NEC 250.66
9 EXT WATER TO INT WATER PIPES	NSTD33-9
10 INT WATER PIPE TO MGB	NSTD33-9
11-12 NOT USED	
13 AC PANEL TO MGB	NSTD33-9
14 MGB/FGB TO BLDG STL FRAME	#2/0 I-STR
14C MGB/FGB TO ROOF/WALL MTL PNL	#1/0 I-STR
15 MGB/FGB TO FGB-HF SAME FLOOR	#2/0 I-STR
16 NOT USED	
16A ECPGB TO CABLE ENTRY RACK	#1/0 I-STR
17 MGB TO CABLE SHIELDING	#6 I-STR
17A ECPGB TO CABLE SHIELDING	#6 I-STR
17B MGB/FGB TO F-0 SPLICE SHELF	#1 I-STR
18 LOWEST MGB/FGB TO HIGHEST FGB	#2/0 I-STR
19 LEAD 18 TO OTHER FGBs, <6'	#2/0 I-STR
20 MGB/FGB TO BRANCH AC PNL	#6 I-STR
20A NEAREST GRND TO DISCONNECT PNL	NEC 250.66
20B GWB TO AC DISTR PNL	#6 I-STR
21 MGB/FGB TO INT HALO	#2 I-STR
21A INTERIOR 'GREEN' HALO	#2 I-STR
21B INT HALO TO EXT RING	#2 SBTC
21C INT HALO TO EQUIPMENT MTL	#6 I-STR
22 ROOF TOWER RING TO ROOF GRND	NFPA 780
23 MGB/FGB TO ECPGB, SAME FLOOR	#1 I-STR
23A MGB/FGB TO CXR-HF LINR PROT	#6 I-STR
24 ECPGB TO EACH PROTECTOR ASSEMBLY	#6 I-STR
24A LOWER PROT ASSY TO UPPER	#6 I-STR
25 RING TO NEAREST LIGHTNING ROD	#2 SBTC
26 LGHTNG ROD SYS TO NEARBY MTL	NFPA 780
27 RING TO TOWER RING	(2) #2 SBTC
28 RING TO SHELTER RING	(2) #2 SBTC
29 BRANCH AC PNL TO BITTY CHG FRM	NSTD33-11
30 BRANCH AC PNL TO OUTLETS	NSTD33-11
31 MGB/FGB TO PWR, BITTY FRAMES	#2/0 I-STR
32 #31 TO BATTERY CHARGER FRAME	#6 I-STR
33 #31 TO BATTERY RACK FRAME	#6 I-STR
34 #31 TO PCU FRAME	#6 I-STR
35 #31 TO DSU FRAME	#6 I-STR
36 #31 TO PDU FRAME	#6 I-STR
37 MGB/FGB TO BITTY RETURN	NSTD33-14.5
37A MGB/FGB TO RTN TERM CARR SUPP	#6 I-STR
38 FGB TO PDU GB	#750MCM I-STR
38A FGB TO PDU GB CARRIER SUPPLY	#2/0 I-STR
39 DC BUS DUCT TO NEXT SECTION	#6 I-STR
40 DC BUS DUCT TO MGB/FGB	#6 I-STR
41A MGB/FGB TO #58	#2/0 I-STR
42-44 NOT USED	
45 MAIN AC PNL TO BRANCH AC PNL	NSTD33-11
46 BRANCH AC PNL TO DED OUTLET	NSTD33-11
47 FGB TO INTEG FRM	#2 I-STR
48 LEAD #31 TO INTEG FRM	#6 I-STR
49 INTEG FRM TO EQUIP SHELF	BY FASTENERS
50 PDU BITTY RET TO #51	#2/0 I-STR
51 #50 TO TRANS FRM ISO DC PWR	#6 I-STR
52 TRANS FRM FUSE TO FRM OR BAR	#8 I-STR
53A MGB/FGB TO PDF/BDFB	NSTD33-22
54 MGB/FGB TO STATIC DEVICES	#6 I-STR
55 MGB/FGB TO CABLE AT ENTRY	#6 I-STR
56 MGB/FGB TO AC PWR RADIO XMTR	#6 I-STR
57A MGB/FGB TO CBL GRID/RUNWAY	#2/0 I-STR
58A #41A TO AISLE FRAME	#2 I-STR
59A #58A TO EACH SGL FRAME GRND	#6 I-STR
60-89 NOT USED	
90 GENERATOR FRAME TO EXT RING	#2 SBTC



2 SHELTER HALO
SCALE: 3/16" = 1'-0"



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

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ROBERT J DAVIS, AIA
ARCHITECT
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VERIZON
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10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
(612) 720-0030

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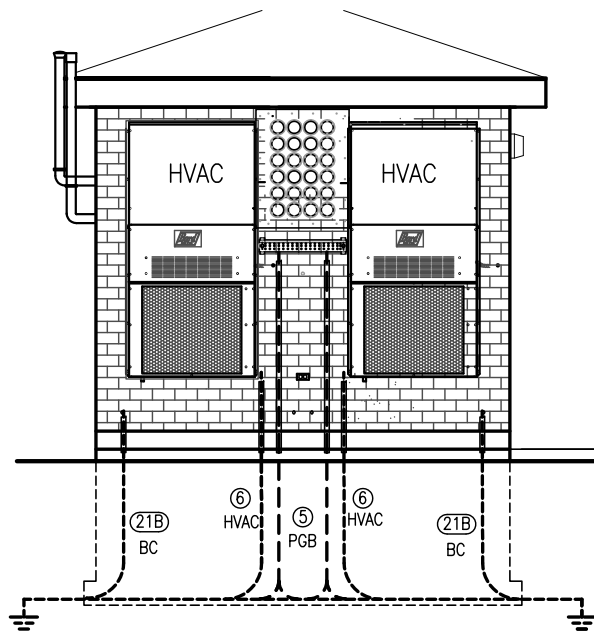
1901 ALTA VISTA DRIVE
ROSEVILLE, MN 55113

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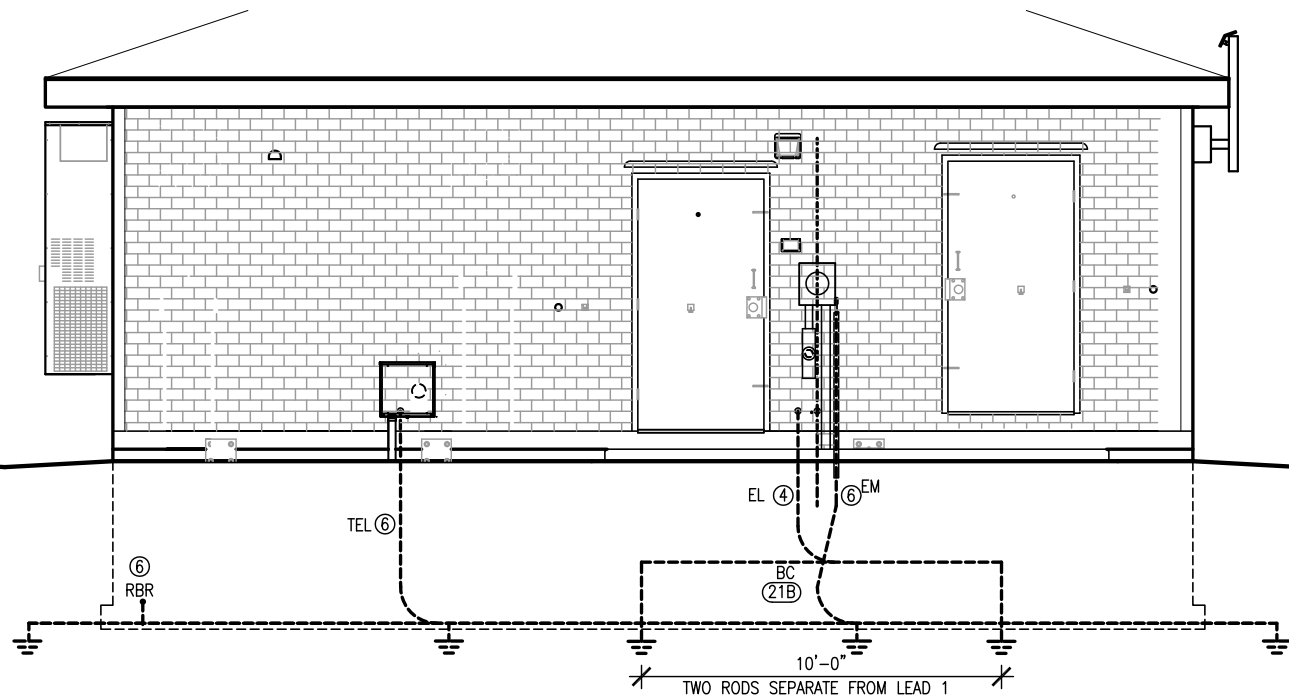
GROUNDING PLAN
LEAD IDENTIFICATION
SHELTER CORNER DETAIL
FOUNDATION LEADS

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DATE:	10-08-12
CHECKED BY:	CDB
REV. A	10-08-12
REV. B	01-28-13
REV. C	02-20-13

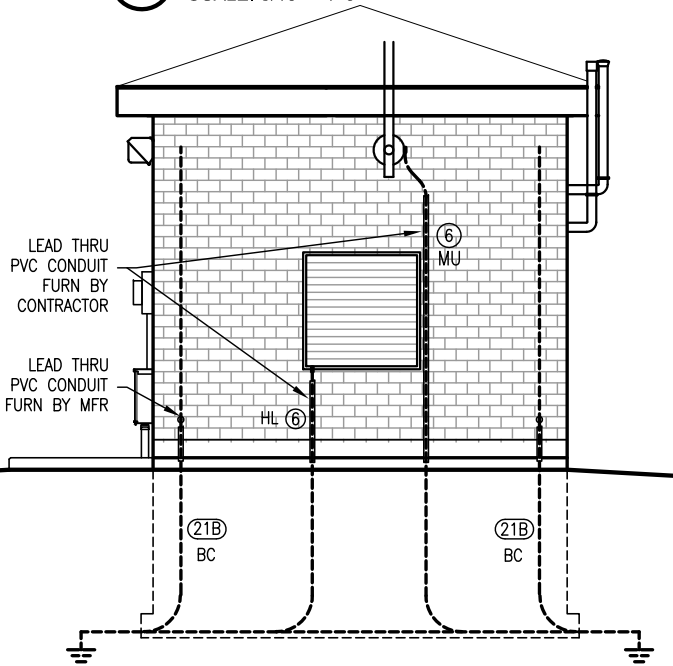
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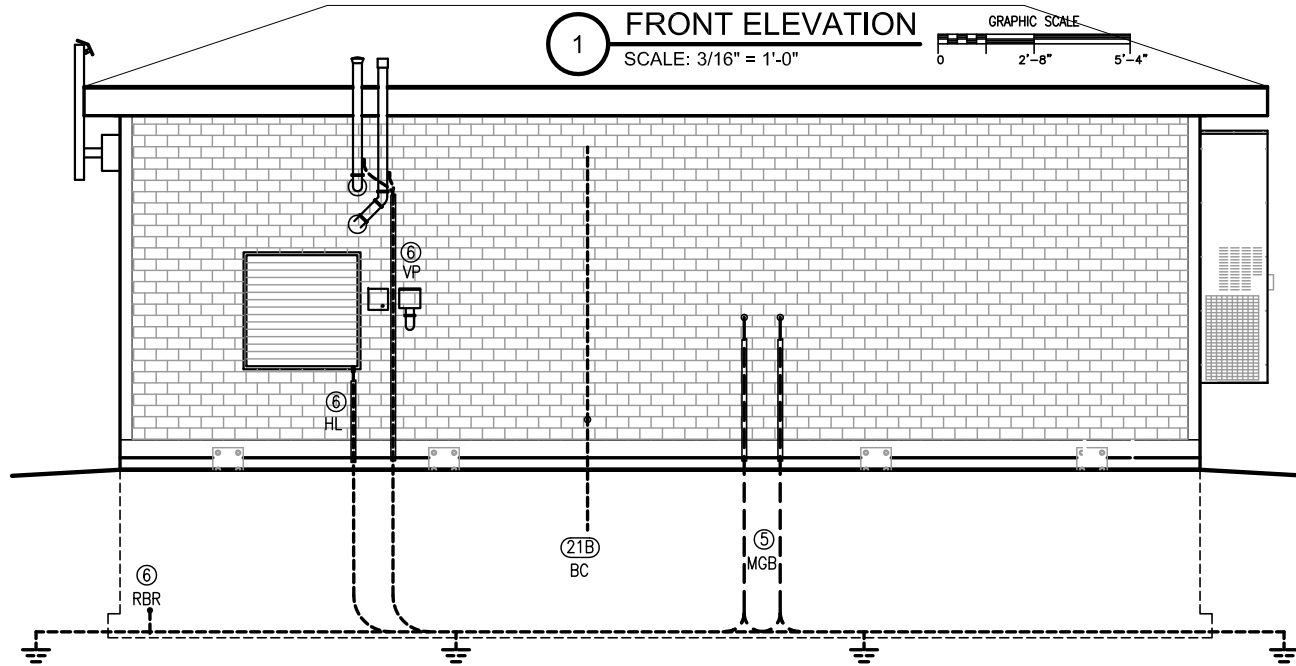
2 RIGHT ELEVATION
SCALE: 3/16" = 1'-0"



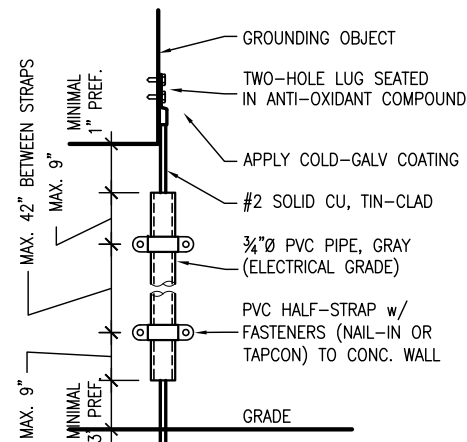
1 FRONT ELEVATION
SCALE: 3/16" = 1'-0"



4 LEFT ELEVATION
SCALE: 3/16" = 1'-0"

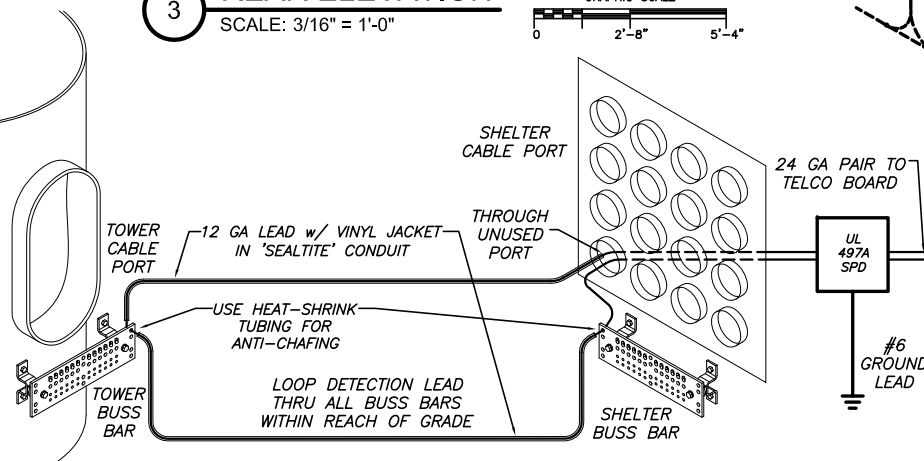


3 REAR ELEVATION
SCALE: 3/16" = 1'-0"

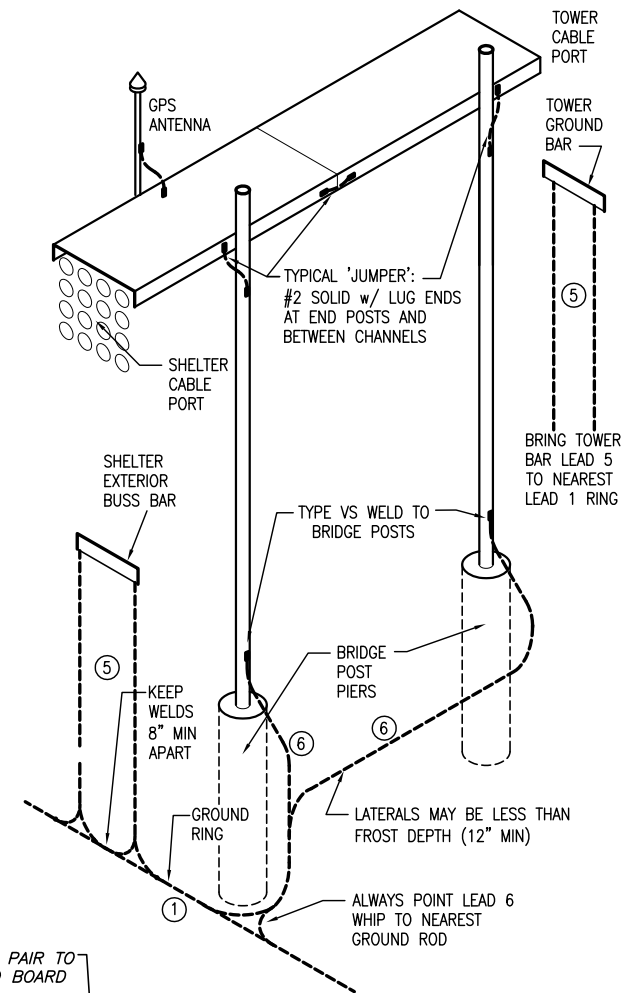


5 CONDUIT DETAIL
SCALE: NONE

6 NOT USED
SCALE: NONE



7 ANTI-THEFT MEASURE
SCALE: NONE



8 TYPICAL CABLE BRIDGE
SCALE: NONE

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ROBERT J DAVIS, AIA
ARCHITECT
9973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
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VERIZON
WIRELESS

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BLOOMINGTON, MN 55438
(612) 720-0030

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ROSEY

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SHEET CONTENTS:

EXTERIOR ELEVATIONS
CONDUIT, STOOP, ANTI-
THEFT, BRIDGE, TOWER
BASE DETAILS

DRAWN BY: CDB

DATE: 10-08-12

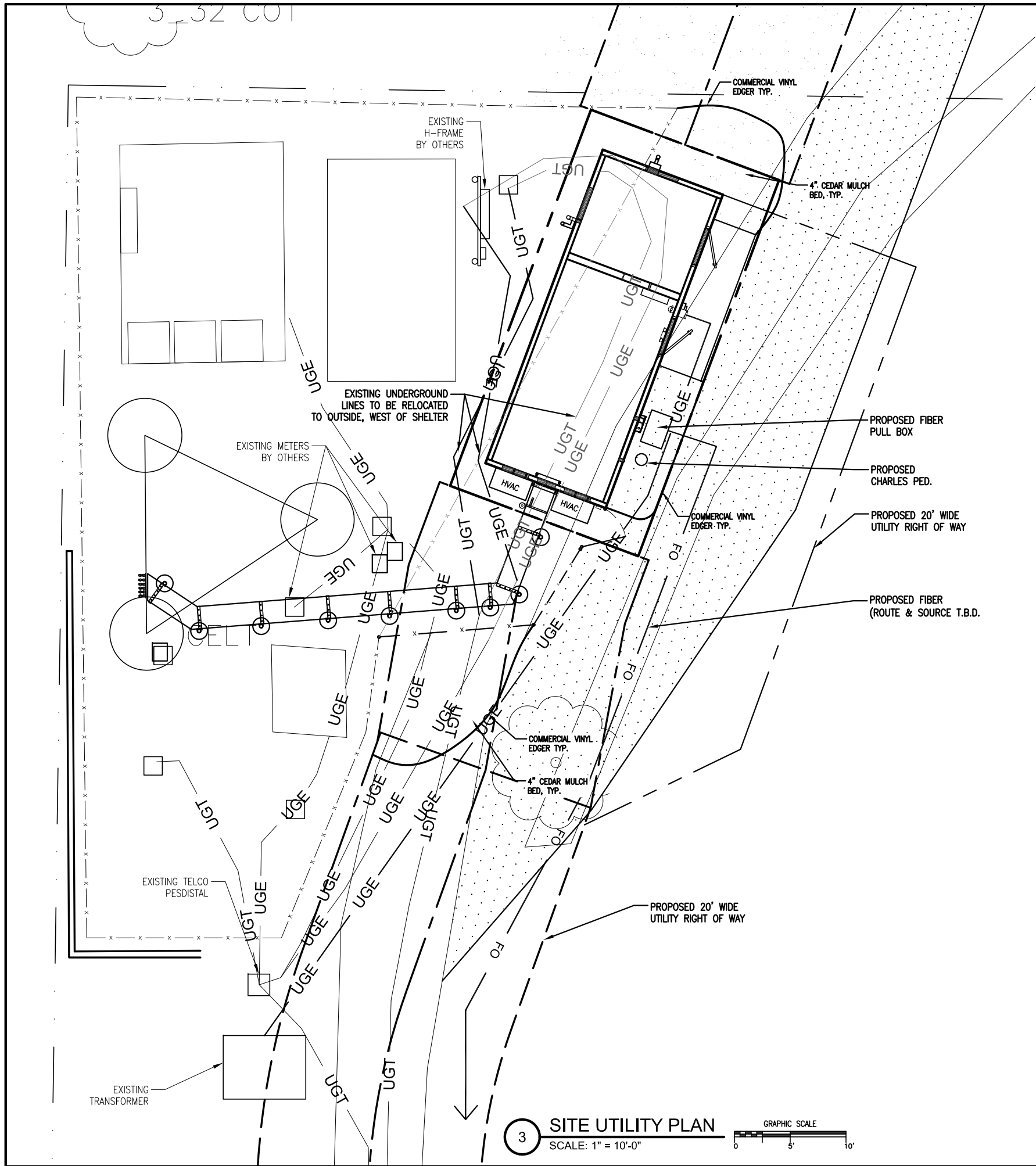
CHECKED BY: CDB

REV. A 10-08-12

REV. B 01-28-13

REV. C 02-20-13

G-3



2 **EXISTING TRANSFORMER PHOTO**
SCALE: NONE



1 **SITE PHOTO**
SCALE: NONE



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9973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
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SHEET CONTENTS:
SITE UTILITY PLAN

DRAWN BY:	JJB
DATE:	10-09-12
CHECKED BY:	TRB
REV. A	10-09-12
REV. B	01-28-13
REV. C	02-20-13

E-1

GENERAL ELECTRICAL NOTES:

1. SUBMITTAL OF BID INDICATES CONTRACTOR IS AWARE OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINE WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
3. HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
4. THESE PLANS ARE DIAGRAMMATIC ONLY. FOLLOW AS CLOSELY AS POSSIBLE.
5. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANEL BOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.).
6. CONTRACTOR SHALL PROVIDE LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER’S LABORATORY AND SHALL BEAR THE INSPECTION LABEL “J” WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU.

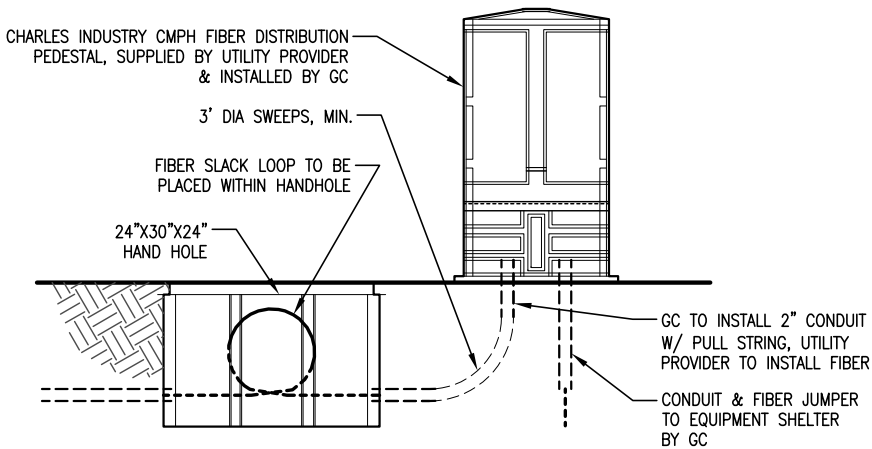
8. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
9. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS.
10. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPONWRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
11. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
12. PROVIDE CONSTRUCTION ENGINEER WITH ONE SET OF COMPLETE ELECTRICAL “AS INSTALLED” DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
13. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
14. USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR.
15. ALL CONDUCTORS SHALL BE COPPER.
16. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND DRAWINGS.
18. RECEPTACLES SHALL BE 20 AMPERE, 125 VOLT A.C., WHITE AS REQUIRED BY THE ARCHITECT OR APPROVED EQUAL.

19. WALL SWITCHES SHALL BE SINGLE-POLE, HUBBELL #1201 OR EQUIVALENT, WHITE AS REQUIRED BY THE ARCHITECT.
20. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS, SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE RACO #800, 1/2” RAISED WORK COVERS.
21. WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM, NO BX OR ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
22. GROUND RODS SHALL BE AS SPECIFIED ON THE GROUNDING DRAWINGS.
23. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY SQUARE D COMPANY OR APPROVED EQUAL. IF HOST FACILITY REQUIRES THE NEW SERVICE TO BE SUB-METERED FROM THE EXISTING SERVICE, SUB-METER SHALL BE OF THE 10x OR 16x TYPE.
24. ALL MATERIALS SHALL BE U.L. LISTED.
25. CONDUIT:

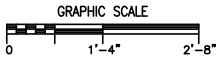
A. SERVICE CONDUITS SHALL BE GRAY SCH.40 PVC BURIED MIN. 36”, EXCEPT THAT SCH.80 SHALL BE USED UNDER ROADWAYS AND IN LOCATIONS SUBJECT TO CASUAL IMPACTS. BENDS SHALL BE MADE USING “WIDE SWEEP” (12” MIN. RADIUS) ELBOW FITTINGS. ANY CODE-REQUIRED RIGID STEEL CONDUIT SHALL BE U.L. LABEL, GALVANIZED INSIDE & OUTSIDE. CONDUIT SHALL EXTEND MIN. 36” BELOW GRADE, WITH “SWEEP” ELBOWS (12”R.MIN.) ENDING IN PVC TRANSITION FITTINGS. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAP-WRAPPED WITH HUNTS PROCESS NO. 3 EXTENDING MIN. 12” ABOVE GRADE.

- B. INTERIOR CONDUITS SHALL BE ELECTRICAL METALLIC TUBING HAVING U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE.
- C. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE “JAKE” OR “SQUEEZE” TYPE, SEAL TIGHT FLEXIBLE CONDUIT. NO SUCH CONDUIT SHALL EXCEED SIX FEET IN LENGTH.
26. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
27. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
28. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH SECTION 712, PENETRATIONS- INTERNATIONAL BUILDING CODE (IBC)
29. DRILLING OR CORING HOLES IN CONCRETE WALLS OR DECKS, WHETHER FOR FASTENING OR ANCHORING PURPOSES, REQUIRES THAT TENDONS OR REINFORCING STEEL MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT (X-RAY OR OTHER DEVICE) THAT CAN ACCURATELY LOCATE THEM. TENDONS OR REINFORCING MUST NOT BE DRILLED, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
30. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO CONSTRUCTION ENGINEER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
31. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF BOTH TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR.
32. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS NECESSARY TO COMPLETE THE INSTALLATION OF ANY TOWER LIGHTING SYSTEM DESCRIBED IN THE RFQ.

CMPH PEDESTAL MAY BE REQUIRED BY UTILITY PROVIDER

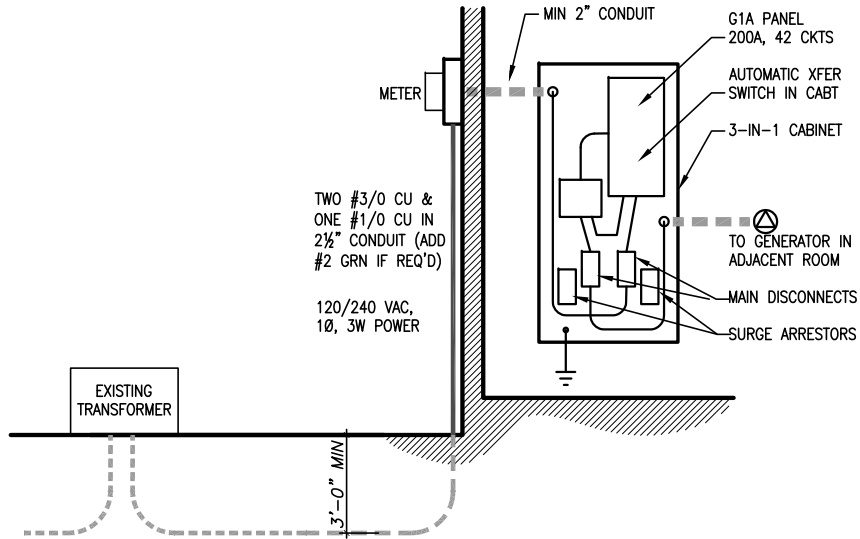


CMPH PEDESTAL
SCALE: 3/8" = 1'-0"

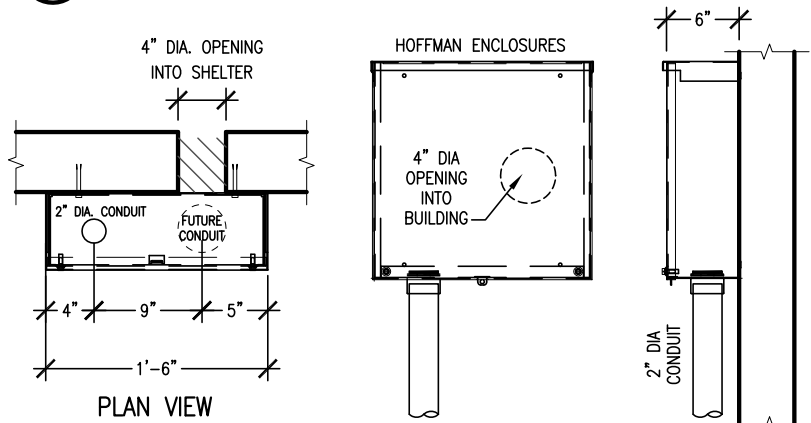


PANEL G1A : 120/240V, SINGLE PHASE, 200A MAIN BREAKER, 42 CIRCUIT, SURFACE MOUNT									
CIRCUIT DESCRIPTION	AMPS	CKT	A	B	A	B	CKT	AMPS	CIRCUIT DESCRIPTION
HVAC UNIT 1	60	1		5696		5696	2	60	HVAC UNIT 2
	60	3	5696		5696		4	60	
SD, VENT TIMER-FAN	15	5		132			6		SPACE
BATT CHG-BLK HTR	20	7	180		892		8	20	LIGHTS
RECEPTACLES	20	9		1260		150	10	15	VENTS
RECTIFIER	30	11	1200				12		
	30	13		1200			14		
RECTIFIER	30	15	1200				16		
	30	17		1200			18		
RECTIFIER	30	19	1200				20		
	30	21		1200			22		
RECTIFIER	30	23	1200				24		
	30	25		1200			26		
RECTIFIER	30	27	1200				28		
	30	29		1200			30		
RECTIFIER	30	31	1200				32		
	30	33		1200			34		
SPACE		35					36		
		37					38		
SURGE ARRESTOR	60	39					40		
	60	41					42		
SUBTOTAL CONTINUOUS			7380	8360	892	150	WATTS		
SUBTOTAL NON-CONTINUOUS			5696	5696	5696	5696	WATTS		
CONNECTED LOAD ANALYSIS (REQUIRED BY POWER COMPANY)					DERATED SERVICE CALCULATION (PLUS 25% OF CONTINUOUS LOADS - 3 HOURS OR MORE - NEC SERVICE CALCULATION)				
TOTAL PHASE A LOAD		19,664	TOTAL DEMAND LOAD		43,762				
TOTAL PHASE B LOAD		<u>19,902</u>	TOTAL DEMAND AMPS		182.3				
TOTAL CONNECTED LOAD		39,566							
TOTAL CONNECTED AMPS		164.9							

PANEL SCHEDULE
SCALE: NONE



ONE-LINE RISER DIAGRAM
SCALE: NONE



TELCO ENTRY
SCALE: 3/4" = 1'-0"

NOT FOR
CONSTRUCTION

DESIGN 1

ROBERT J DAVIS, AIA
ARCHITECT
9973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
(952) 903-9299 FAX 903-9292

VERIZON
WIRELESS

10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
(612) 720-0030

PROJECT

2012746699

MINC
ROSEY

ALTA VISTA DRIVE
ROSEVILLE, MN 55113

SHEET CONTENTS:
TELCO ENTRY BOX DETAIL
ONE-LINE RISER DIAGRAM
PANEL SCHEDULE
GENERAL ELECTRICAL NOTES

DRAWN BY: JUB
DATE: 10-09-12
CHECKED BY: TRB
REV. A 10-09-12
REV. B 01-28-13
REV. C 02-20-13

E-2

ROSEVILLE PARKS AND RECREATION COMMISSION

2013 **DRAFT** ANNUAL CALENDAR

<u>Day/Month</u>	<u>Time</u>	<u>Location</u>
Thursday, January 10	6:30 p.m.	Regular Meeting – City Hall
Tuesday, February 5	6:30 p.m.	Regular Meeting -City Hall
Tuesday, March 5	6:30 p.m	Regular Meeting -City Hall
Tuesday, April 2	6:30 p.m.	Regular Meeting -City Hall
Tuesday, May 7	6:30 p.m.	Regular Meeting -City Hall
Monday, June 10	6:00 p.m.	Joint Commission/City Council Meeting
July - Schedule as needed		
Tuesday, August 6	8:00 p.m.	Regular Meeting – City Hall
Saturday, September 7	9:00 a.m.	Meeting and Tour
Tuesday, October 1	6:30 p.m.	Regular Meeting -City Hall
Thursday, November 7	6:30 p.m.	Regular Meeting – City Hall
Tuesday, December 3	6:30 p.m.	Regular Meeting -City Hall

Parks and Recreation Commission Goals 2013 – 2015

Goal	Timeframe	Action Steps	Assigned	Progress
#1 Increase & Enhance Volunteer Participation	Long-term Ongoing	1. Commissioners to attend at least two community engagement functions annually. i.e. DYP, Living Smarter Fair, Rosefest Events, renewal program meetings, others 2. Involve community work groups as appropriate and needed: i.e. Natural Resources and Trails 3. Attend and participate in annual volunteer recognition event 4. Support future volunteer coordinator recommendations	P&R Commissioners & staff	
#2 Collaborate with Public Works, Environment & Transportation Commission (PWET) on trails & pathways initiatives	Renewal: short-term 2013 On-going: 2014 - 2015	1. Create joint PWET and P&R Commission committee by January 2013 2. NRATS representatives report progress to P&R Commission monthly	P&R Commissioners & staff	<i>NRATS created and working</i>
#3 Advise Parks & Recreation on Renewal Program projects and opportunities	Renewal: 2012-2015	1. Keep abreast of and actively review progress of Renewal Program 2. Discuss projects and timing with community members, bring ideas to monthly meetings and department staff 3. Participate as necessary and requested in project design and review 4. Identify at least one potential grant and/or partnership opportunities annually. Pursue opportunities as appropriate and available	P&R Commissioners & staff	

Goal	Timeframe	Action Steps	Assigned	Progress
#4 Provide research and recommendations for a Volunteer Coordinator	Short-term: 2013	1. Designate commissioners to research cost/benefit of volunteer coordinators in similar communities. 2. Utilize Civic Engagement Report findings where appropriate 3. Make recommendation to P & R Commission by April 2013 4. Discuss options with City Council at June 2013 joint meeting	P&R Commissioners & staff	<i>Lee Diedrick & Mary Holt identified as commission leads</i>
#5 Provide research and recommendations for a Community Center	Ongoing: 2013-2015	1. Designate commissioners to research Community Center options and provide quarterly updates to Commission 2. Review Master Plan and identify next step options. 3. Preliminary report to P & R commission Dec. 2013 4. Establish future direction January 2014 5. Formulate options to City Council by June 2014	P&R Commissioners & staff	
#6 Provide research and recommendations for establishing a Park Board	Ongoing: 2013-2014	1. Designate commissioners to research benefits of a Park Board vs. Park & Recreation Commission 2. Look at best practices in other cities. 3. Report findings to P & R Commission by April 2013 4. Discuss with City Council June 2013	P&R Commissioners & staff	<i>Nolan Wall and Greg Simbeck identified as commission leads</i>
#7 Work with City Administration to explore local option sales tax	Short-term: 2013-2015	1. Designate Commissioners to meet with City Administrators to learn and understand status and offer assistance 2. Work with City Administration to finalize whether or not the local option sales tax is an option to be used for Community Center funding by February 2014 3. Report to P & R Commission quarterly	P&R Commissioners & staff	<i>Dave Holt identified as commission lead</i>



Lonnie Brokke
Parks & Recreation Director
651-792-7101
lonnie.brokke@ci.roseville.mn.us

Jeff Evenson
Parks Superintendent
Renewal Program Project Mgr
651-792-7107
jeff.evenson@ci.roseville.mn.us

Jill Anfang
Parks & Recreation Asst Dir
651-792-7102
jill.anfang@ci.roseville.mn.us



February 2013

The Parks & Recreation Renewal Program is the result of extensive community engagement. As we begin to make things happen in our parks, the parks & recreation staff will continue to involve residents and stakeholders to further understand your desires and concerns for park improvements in the community. We encourage you to get involved or better yet, stay involved;

- The following is a list of upcoming neighborhood & community meetings, all community members are welcome to participate in any of these sessions.
- Interested in receiving online project updates and meeting announcements? Sign up at; <http://www.cityofroseville.com/list.aspx> then scroll down to the Parks & Recreation Renewal Program listing, at this point you can choose to receive all renewal program notifications or just the notifications for the specific park(s) you have chosen.
- We can include you on the mailing list for Renewal Program announcements; contact parks & recreation at 651-702-7103 to be added to the mailing list.

Date	Project/Park	Meeting Location	Time
February			
February 26	Villa Park	Maintenance Bldg	6:30-8:30pm
February 28	County Rd B2 Trail	City Hall	5:00-7:00pm
March			
March 2	HANC Meeting #2	HANC	8:00-11:00am
March 4	Autumn Grove Park	Roseville Skating Ctr	7:00-8:30pm
March 12	CP Victoria Ballfields Materion Park CP Victoria West Tamarack Park	City Hall	6:30-9:00pm
March 14	Lexington Park Meeting #2	Roseville Skating Ctr	7:00-8:30pm
March 19	Villa Park Meeting #2	Maintenance Bldg	6:30-8:30pm
April			
April 1	Bruce Russell Park	Roseville Skating Ctr	6:00-7:00pm
April 1	Autumn Grove Meeting #2	Roseville Skating Ctr	7:00-8:00pm
April 4	Meeting #2 CP Victoria Ballfields Materion Park CP Victoria West Tamarack Park Legion Field	City Hall	6:30-9:00pm
April 9	Howard Johnson Park Roseville Skating Center	City Hall	6:30-8:30pm
April 11	Southwest Roseville Evergreen Park	City Hall	6:30-8:30pm
April 13	Reservoir Woods	City Hall	10:00am-Noon
April 16	Oasis Park	Maintenance Bldg	6:30-8:30pm
April 23	Rosebrook Park	Maintenance Bldg	6:30-8:30pm
April 29	Bruce Russell Meeting #2	Roseville Skating Ctr	6:00-7:00pm
April 30	Meeting #2 Howard Johnson Park Skating Center	City Hall	6:30-8:30pm

See Reverse for May, June & July Meetings

May			
May 4	Sandcastle Park	City Hall	9:00am-Noon
May 6	CP Foundation Shelter CP FORParks Shelter CP Dale St Athletic Complex	City Hall	6:30-7:30pm
			7:30-8:30pm
May 8	Meeting #2 Southwest Roseville Evergreen Park	City Hall	6:30-8:30pm
May 14	Oasis Park Meeting #2	City Hall	6:30-8:30pm
May 16	Owasso Ballfields Pocahontas Park	City Hall	6:00-7:00pm
			7:00-8:00pm
May 21	Rosebrook Meeting #2	Maintenance Bldg	6:30-8:30pm
May 23	Sandcastle Meeting #2	Maintenance Bldg	6:30-8:30pm
May 28	CP Lexington	Roseville Skating Ctr	6:30-8:30pm
May 30	Acorn Park	City Hall	6:30-8:30pm
June			
June 3	Meeting #2 CP Foundation Shelter CP FORParks Shelter CP Dale St Athletic Complex	City Hall	6:30-7:30pm
			7:30-8:30pm
June 6	Langton Lake Park Langton Lake Park @ C2 Mapleview Park	City Hall	6:30-8:30pm
June 13	Meeting #2 Owasso Ballfields Pocahontas Park	City Hall	6:00-7:00pm
			7:00-8:00pm
June 18	Meeting #2 CP Lexington	City Hall	6:30-8:30pm
June 20	Acorn Park Meeting #2	City Hall	6:30-8:30pm
July			
July 1	Meeting #2 Langton Lake Park Langton Lake Park @ C2 Mapleview Park	City Hall	6:30-8:30pm

Keep current with developing Parks & Recreation Renewal Program online.

Meeting schedules, agendas, summaries and more are available online at cityofroseville.com/parks, follow the Renewal Program link to;

- Projects by Location
- Public Engagement Strategy
- Implementation Schedules

Thank you for your continued support of Roseville Parks & Recreation.



Lonnie Brokke

Parks & Recreation Director
651-792-7101
lonnie.brokke@ci.roseville.mn.us

Jeff Evenson

Parks Superintendent
Renewal Program Project Mgr
651-792-7107
jeff.evenson@ci.roseville.mn.us

Jill Anfang

Parks & Recreation Asst Dir
651-792-7102
jill.anfang@ci.roseville.mn.us



The Ins and Outs of City Sales Tax

By Susan Naughton

Even in tight economic times, cities must tackle expensive projects such as updating the sewer system or making park and trail improvements. One option cities can explore for funding such necessary capital improvements is a sales and use tax.

Historically, city sales and use taxes have been rare. Before 1990, there were only three—in Minneapolis, Duluth, and Rochester. But due in part to decreasing state funding, cities are increasingly looking to local taxes as a way to fund capital improvements. As of January 2012, 27 cities were imposing a sales and use tax.

Four-step process. A city must follow four steps to impose a new sales and use tax as authorized by *Minnesota Statutes*, section 297A.99:

- **Step 1.** The city council must pass a resolution indicating its approval of the tax and stating (at a minimum) the:
 - Proposed tax rate.
 - Intended uses for the revenue.
 - Total amount of revenue to be raised.
 - Estimated length of time the tax will be in effect.
- **Step 2.** The city must submit the proposed tax to the voters as a referendum at a general election held at least 90 days after the resolution was passed. State law was adopted in 2011 to clarify that cities must first hold the referendum on the proposed tax before coming to the Legislature to seek its approval. State law was also adopted in 2011 that prohibits cities from advertising or spending funds to promote passage of the referendum.
- **Step 3.** The city must request—and the Legislature must approve—a special law authorizing the proposed tax.
- **Step 4.** The city must adopt an ordinance imposing the local tax and must notify the commissioner of the Department of Revenue at least 90 days before the first day of the calendar quarter on which the tax is to be imposed.

Typical capital improvements. Proceeds of a city sales and use tax must be dedicated exclusively to payment of a specific capital improvement designated at least 90 days before the referendum.

Generally, successful city sales and use taxes have funded capital improvements with regional significance, like those for:

- Convention or civic centers.
- Public safety.
- Transportation.
- Sewer and water.
- Parks and recreation.

The city of Hutchinson, for example, imposed a half-cent tax beginning in January 2012 to help pay for a new water plant and an expanded wastewater treatment plant.

Use tax requirement. A complementary use tax is required in all jurisdictions where a local sales tax has been imposed. This tax is imposed on the consumption or “use” of taxable items where no city sales tax was paid. The tax is imposed mainly on purchases by resident buyers from sellers located outside the taxing jurisdiction.

The use tax is intended to remove the disadvantage to local businesses from competition with businesses located outside the local taxing area that are not required to collect the local tax.

Exemptions. A city sales and use tax generally applies to the same tax base as the state sales and use tax. A taxable service is subject to the city tax if more than one-half of the service, based on the cost, is performed within the city.

There are three types of exempt sales:

- Purchases shipped outside the city for use in a trade or business outside the city.
- Purchases temporarily stored in the city before being shipped by common carrier for use outside the city.
- Purchases subject to the direct pay provisions for interstate motor vehicles.

Public notice. A city with a sales and use tax that maintains an official website

must display a link on its homepage to a notice about the local use tax. The notice must explain that residents and businesses in the city may owe a local use tax on purchases of goods and services made outside the city.

The notice must provide resources, including a link to any relevant Department of Revenue web page, to allow people to get information and forms to pay the tax. In addition, a city that provides and bills for utility services must include a similar notice at least once a year in a utility billing statement.

Collection. State law requires the commissioner of Revenue to collect local sales and use taxes, and provides that local taxes may be collected with the state sales and use tax. Local taxes are subject to the same penalties, interest, and mechanisms for enforcement as the state sales and use tax.

Zip codes are used to determine whether a delivery sale is subject to a local tax. The lowest combined tax rate applies if a zip code area includes more than one local tax rate. The state deducts its proportionate share of administrative costs from the collected tax revenue, and pays the tax proceeds to the city on at least a quarterly basis.

Susan Naughton is a research attorney with the League of Minnesota Cities. Phone: (651) 281-1232. Email: snaughto@lmc.org.

MARCH 2013

ROSEVILLE SKATING CENTER – ARENA

Schedule is subject to change WITHOUT NOTICE

For schedule updates call 651.792.7191 or visit www.cityofroseville.com/skatingcenter

Updated 2/18/2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
ADMISSION PRICES Public Skating /Open Hockey \$ 5.50 Skate Rentals \$ 4.00 Senior Skate Session \$ 4.00 Sharpening \$ 5.00 Skatercise Admission \$ 8.00 Open Figure Skating \$ 5.50 10-Session Punch Card \$ 49.00					1 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Skatercise 1:15pm - 2:30pm	2 No Public Sessions
3 Public Skating 12:30pm-2:00pm	4 Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Public Skating 1:00pm - 2:30pm	5 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Open Figure Skating 11:45am - 1:00pm Ladies Open Hockey 1:00pm - 2:15pm	6 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Senior Skating 1:15pm - 2:45pm Public Skating 7:00pm - 8:30pm	7 Adult Open Hockey 8:30am - 9:45am Daytime Skating Lessons 10:00am - 11:30am Public Skating 11:30am - 1:00pm	8 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Skatercise 1:15pm - 2:30pm	9 No Public Sessions
10 No Public Sessions	11 Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Public Skating 1:00pm - 2:30pm	12 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Open Figure Skating 11:45am - 1:00pm Ladies Open Hockey 1:00pm - 2:15pm	13 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Senior Skating 1:15pm - 2:45pm	14 Adult Open Hockey 8:30am - 9:45am Daytime Skating Lessons 10:00am - 11:30am Public Skating 11:30am - 1:00pm	15 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Skatercise 1:15pm - 2:30pm	16 No Public Sessions
17 Adult Open Hockey 8:30am - 9:45am Public Skating 12:30pm-2:00pm	18 Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Public Skating 1:00pm - 2:30pm	19 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Open Figure Skating 11:45am - 1:00pm Ladies Open Hockey 1:00pm - 2:15pm	20 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Senior Skating 1:15pm - 2:45pm	21 Adult Open Hockey 8:30am - 9:45am Daytime Skating Lessons 10:00am - 11:30am Public Skating 11:30am - 1:00pm	22 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Skatercise 1:15pm - 2:30pm	23 No Public Sessions
24 Adult Open Hockey 8:30am - 9:45am Public Skating 12:30pm-2:00pm	25 Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Public Skating 1:00pm - 2:30pm	26 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Open Figure Skating 11:45am - 1:00pm Ladies Open Hockey 1:00pm - 2:15pm	27 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Senior Skating 1:15pm - 2:45pm	28 Adult Open Hockey 8:30am - 9:45am Daytime Skating Lessons 10:00am - 11:30am Public Skating 11:30am - 1:00pm	29 Adult Open Hockey 8:30am - 9:45am Public Skating 10:00am - 11:30am Adult Open Hockey 11:30am - 12:45pm Skatercise 1:15pm - 2:30pm	30 No Public Sessions
31 HAPPY EASTER No Public Sessions						

MARCH 2013

ROSEVILLE SKATING CENTER – OVAL

Schedule is subject to change WITHOUT NOTICE

For schedule updates call 651.792.7191 or visit www.cityofroseville.com/skatingcenter

Updated 2/18/2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
ADMISSION PRICES Public Skating /Open Hockey \$ 5.50 Skate Rentals \$ 4.00 Senior Skate Session \$ 4.00 Sharpening \$ 5.00 Skatercise Admission \$ 8.00 Open Figure Skating \$ 5.50 10-Session Punch Card \$ 49.00					1 PUBLIC SKATING & OPEN HOCKEY 11:30AM - 1:30PM OPEN SPEEDSKATING 2:00PM – 3:15PM PUBLIC SKATING & OPEN HOCKEY 8:00PM - 10:00PM	2 PUBLIC SKATING & OPEN HOCKEY 1:00PM - 3:00PM PUBLIC SKATING & OPEN HOCKEY 6:00PM - 9:00PM
3 PUBLIC SKATING & OPEN HOCKEY 12:00PM - 2:00PM PUBLIC SKATING & OPEN HOCKEY 7:00PM - 9:00PM	4 OVAL CLOSED FOR WINTER SEASON THANKS FOR A GREAT SEASON!	5	6	7	8	9
10	11	12	13	14	15	16
THANK YOU FOR ANOTHER GREAT SEASON OF OUTDOOR SKATING!						
17	18	19	20	21	22	23
24	25	26	27	28	29	30
SKATE PARK & INLINE SKATING SEASON BEGINS MAY 6th						
31						

Upcoming Parks and Recreation Programs & Events

April / May

- April 1 – Rosefest Parade Unit applications due to Roseville Parks & Recreation Dept.
- April 4 – Oasis Park Community Garden plot renewals due. Returning resident plot registrations only.
- April 8 – Oasis Park Community Garden plots open to Roseville residents.
- April 22 – Oasis Park Community Garden plots open to residents and non-residents.
- April 11 – Minnesota Orchestra Adult trip departs from the Roseville Skating Center at 9:45 a.m. Registration required.
- April 13 – Youth Tennis Carnival 1–3 p.m. Highview MS. Free event, pre-registration required.
- April 19 – Tree & Shrub Sale forms due to Roseville Parks & Recreation Dept. Deliveries May 6.
- April 20 – Celebrate Earth Day & HANC's B-day at HANC. 9- 3 p.m. Free family event.
- April 21 - Roseville Community Band Spring Concert 4 p.m. RAHS Auditorium. Free.
- April 21 – Roseville String Ensemble Spring Concert 3:30 p.m. Concordia Academy High School. Free.
- April 15 – Outdoor Picnic Shelters open for the season.
- Feb 5-April 16 - AARP Tax-Aide assistance on Tuesdays 9 – Noon. City Hall. Walk in only, no appoint.
- April 26–28 - 44th Annual Ice Show at Roseville Skating Center. Fri & Sat, 7 p.m. Sunday 2 p.m. Tickets available for purchase at Roseville Skating Center beginning April 8.
- April 26 – Adult Summer Softball Leagues start for 10 and 12 weeks. Evenings on Roseville Fields. Registration Required.
- April 29 – Morning Ladies Golf Leagues start. Mon. –Thurs. thru August 19. Cedarholm Golf Course. Registration Required.

May

- May 1 – Oasis Park Community Garden plots open for the season. Plot reservations required.
- May 4 – Pottery in the Park 11 a.m.- 3 p.m. CP Muriel Sahlin Arboretum. Free – Nominal charge.
- May 7 – Evening Co Ed Golf Leagues start Tues. thru August 20. Cedarholm Golf Course. Reg. Req.
- May 7 – Adult Bocce Ball Leagues begin. CP Lexington Courts. Registration Required.
- May 9 – Roseville School of Dance Picture Night. Details posted prior to date. Registration required.
- May 13 -Adult Sand Volleyball leagues start for 10 weeks CP. Lexington courts. Registration required.
- May 13 -CarFit program for age 60+ drivers. 10 – Noon and 1-3 p.m. Roseville Skating Center. Free. Reservations required by May 9.
- May 17–Adult Summer Soccer starts – 7 weeks. Rosebrook Fields. Registration required.
- May 18– exington Ave. Flower Planting 8 – Noon. More details will be available closer to the event.

Promotional materials for the events or programs listed above are available from Roseville Parks & Recreation staff, on-line, on the flyer racks by the Parks & Recreation office, and in the Spring/Summer brochure.

www.cityofroseville.com/parks