

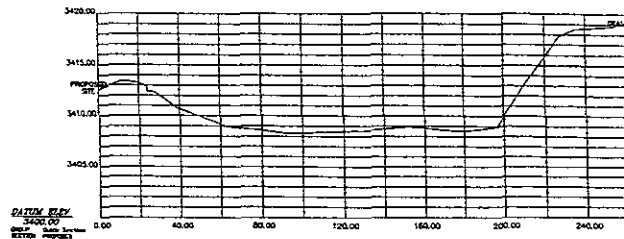
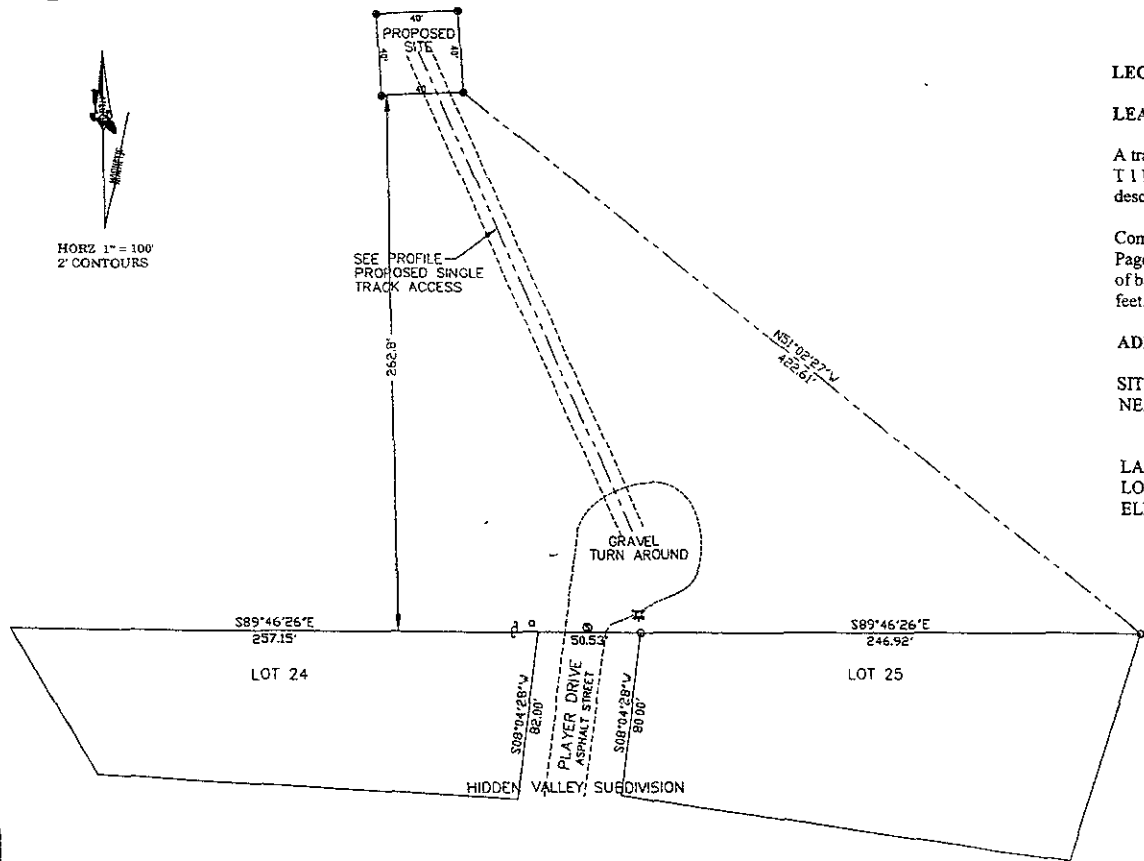


**LEGEND**

- FOUND REBAR CAP
- ⊙ SET 9/8" REBAR & ALUM CP 1S-3093
- PROPOSED SITE
- GRAVEL AREA
- ⊕ FIRE HYDRANT
- ⊙ MANHOLE
- ⊕ POWER POLE
- PHONE PED



HORZ 1" = 100'  
2' CONTOURS



**ACCESS ROUTE PROFILE**

**LEGAL DESCRIPTION**

**LEASE AREA**

A tract of land that is located in a portion of the NE 1/4 of the SE 1/4 of Section 9, T 1 N, R 7 E of the Black Hills Meridian, Rapid City, Pennington County, South Dakota, being more particularly described as follows:

Commencing at the Northwest corner of Lot 25 of the Hidden Valley Subdivision as recorded in Book 25 of Plats on Page 117 of the records of the Pennington County Register of Deeds; thence N 51° 02' 27" W, 422.61 feet to the point of beginning, thence S 87° 52' 44" W, 40.00 feet, thence N 02° 07' 16" W, 40.00 feet; thence N 87° 52' 44" E, 40.00 feet, thence S 02° 07' 16" E, 40.00 feet to the point of beginning. Said parcel contains 0.037 acres, more or less.

**ADDITIONAL DATA**

SITE. SDRC Sioux Park  
 NEAREST ADDRESS. 3301 Player Drive  
 Rapid City  
 Pennington County, South Dakota  
 LATITUDE. 44° 03' 26.84"  
 LONGITUDE: 103° 16' 32.22"  
 ELEVATION: 3,411 feet

**CERTIFICATE OF SURVEYOR**

I, Robert L. St. Claire, do hereby certify that I am a Professional Land Surveyor, registered under the laws of the State of South Dakota. I further certify that this plat is a true and accurate description of the property to the best of my knowledge and belief.

PREPARED FOR:  
 WESTERN WIRELESS  
 FAULK & FOSTER  
 1811 AUBURN AVE.  
 MONROE, LA 71201

**BRUCE**  
 ENGINEERING, INC.  
 118 South Valley Ave.  
 College, WY 82716  
 (307) 868-2233

DRAWN BY EDP	CHECKED BY RLS	C 1
DATE: 10/01/04	DATE: 10/01/04	
JOB No	AutoCAD File 40104.DWG	

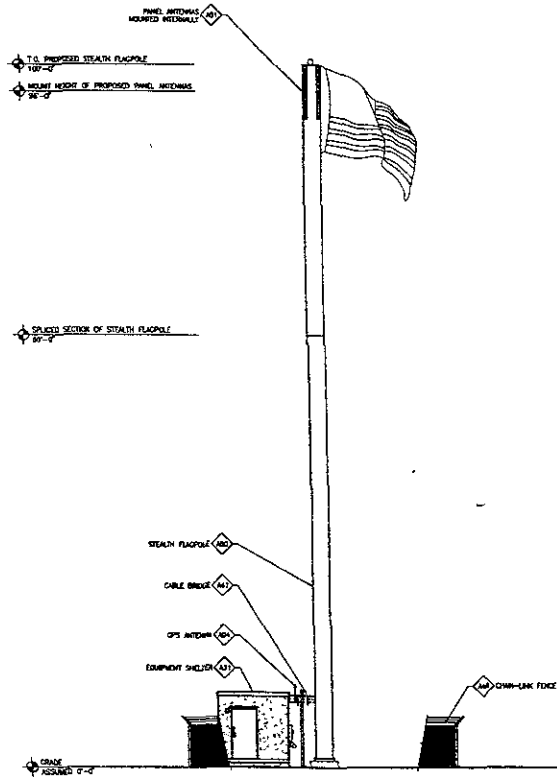
05SR002

STEALTH FLAGPOLE/ANTENNA DESIGN AND ANALYSIS BY STEALTH TOWER OWNER RESPONSIBLE FOR REVIEW OF PROPOSED ANTENNAS.

NOTE

PROPOSED ANTENNA LEGEND (98'-0")			
	ALPHA SECTOR	BETA SECTOR	GAMMA SECTOR
ALUMINUM ANTENNA MODEL	0	120	240
	ANTL 85A-80663/WP 5	ANTL 85B-80663/WP 5	ANTL 85A-80663/WP 3
ANTENNA COUNT	1	1	1
ANTENNA MOUNT HEIGHT	98'-0"	98'-0"	98'-0"
COAX TYPE/LENGTH	L2P5-50A / 3/4"	L2P5-50A / 3/4"	L2P5-50A / 3/4"
NUMBER OF COAX	2	2	2
COAX LENGTH	3.57'	1.07'	1.07'
COMPLT	0	0	0

MODEL: ANTL 85A-80663/WP 5  
 LENGTH: 84.3"  
 WIDTH: 11.2"  
 HEIGHT: 4.5"  
 WEIGHT: 24 LBS  
 PROPOSED PANEL ANTENNA SPECS



SOUTH ELEVATION

SCALE: 1/4" = 1'-0"

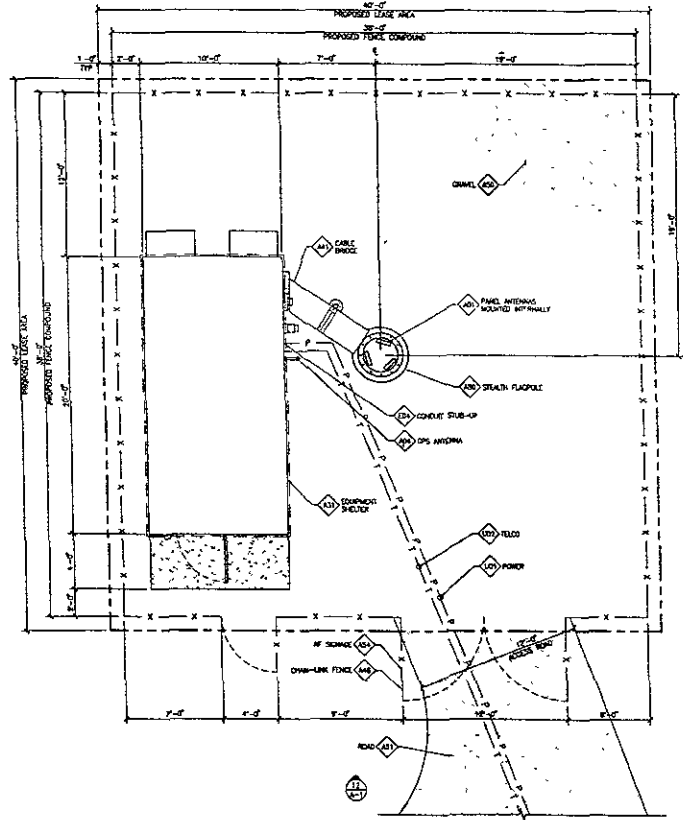
12 ENLARGED SITE PLAN

#	DESCRIPTION	SEE REFERENCE
00	PROPOSED WESTERN WIRELESS PANEL ANTENNAS	(A) (B)
01	PROPOSED WESTERN WIRELESS #1 STORAGE POSTED AT ACCESS GATE	(A) (B)
02	PROPOSED GPS ANTENNA MOUNTED @ EQUIPMENT SHELTER	(A) (B)
03	PROPOSED WESTERN WIRELESS STEALTH FLAGPOLE	(A) (B)
04	PROPOSED WESTERN WIRELESS COAXIAL STUB-UP LOCATIONS	(A) (B)
05	PROPOSED WESTERN WIRELESS UNDERGROUND FENCE ROUTE	(A) (B)
06	PROPOSED WESTERN WIRELESS DOWN-LINK FENCE AND GATE	(A) (B)
07	PROPOSED WESTERN WIRELESS CHANNEL WITHIN COMPOUND	(A) (B)
08	PROPOSED WESTERN WIRELESS ACCESS ROAD	(A) (B)

KEY NOTE LEGEND

#	DESCRIPTION	SEE REFERENCE
09	PROPOSED WESTERN WIRELESS #2 STORAGE POSTED AT ACCESS GATE	(A) (B)
10	PROPOSED WESTERN WIRELESS STEALTH FLAGPOLE	(A) (B)
11	PROPOSED WESTERN WIRELESS COAXIAL STUB-UP LOCATIONS	(A) (B)
12	PROPOSED WESTERN WIRELESS UNDERGROUND FENCE ROUTE	(A) (B)
13	PROPOSED WESTERN WIRELESS DOWN-LINK FENCE AND GATE	(A) (B)
14	PROPOSED WESTERN WIRELESS CHANNEL WITHIN COMPOUND	(A) (B)
15	PROPOSED WESTERN WIRELESS ACCESS ROAD	(A) (B)

KEY NOTE LEGEND



NOTES:  
 1. SITE PLAN IS A DIAGNOSTIC REPRESENTATION ONLY. VERIFY ALL DIMENSIONS.  
 2. VERIFY ALL PROPERTY LINE INFORMATION WITH EXISTING SURVEY DATA.



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

western wireless

WESTERN WIRELESS  
 3050 13TH AVENUE SE, SUITE 200  
 BELLEVUE, WA 98007-3122  
 PHONE: (206) 488-7272  
 FAX: (206) 488-7273



THIS DRAWING IS THE PROPERTY OF THE OWNER. IT IS PROVIDED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OR THE WRITTEN PERMISSION OF THE OWNER.



RELEASE	
DATE	
DESIGNER	CD REVIEW
DRAWN BY	CD FINAL

REVISIONS	
NO.	DATE

SITE NAME  
**SIoux PARK / CITY OF RAPID CITY**

SITE NUMBER

SDRC

FILE JOB NUMBER: **240204**      IN HOUSE

DRAWN BY:       CHECKED BY:

SITE ADDRESS  
 LAT: 45°28.84'N    LONG: 101°18'32.22"W  
 RAPID CITY, SD 57702

SHEET TITLE  
**SOUTH ELEVATION ENLARGED SITE PLAN**

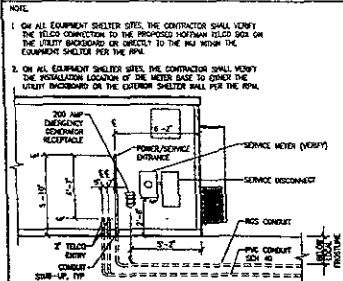
SHEET NUMBER

A-1  
 PLOT SCALE: PAPER SIZE: 24"x36"





THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PROVIDED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED HEREIN IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF THE OWNER.



**NOTE**

- ON ALL EQUIPMENT SHELTER SITES, THE CONTRACTOR SHALL VERIFY THE YIELD CONNECTION TO THE PROPOSED HOTSPOT YIELD DATA ON THE UTILITY BACKGROUND OR DIRECTLY TO THE RPA THROUGH THE EQUIPMENT SHELTER PER THE RPA.
- ON ALL EQUIPMENT SHELTER SITES, THE CONTRACTOR SHALL VERIFY THE INSTALLATION LOCATION OF THE WEIR BASE TO ENSURE THE WEIR BOARD ON THE EXTERIOR SHELTER SHALL PER THE RPA.

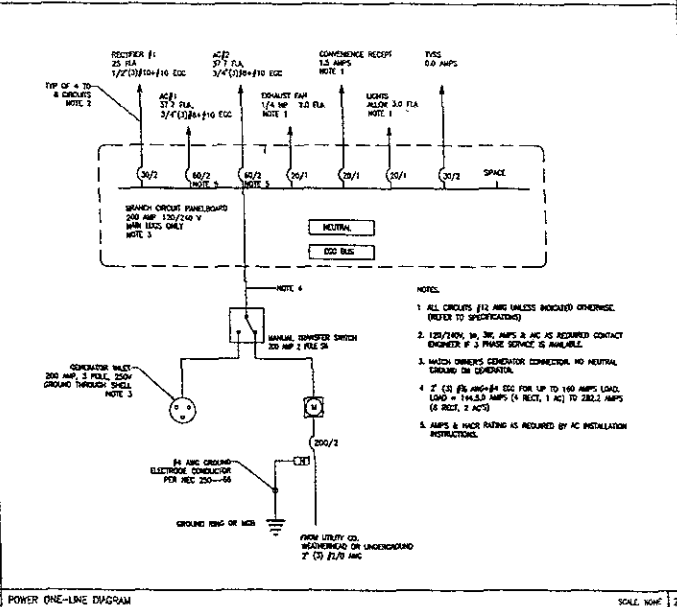
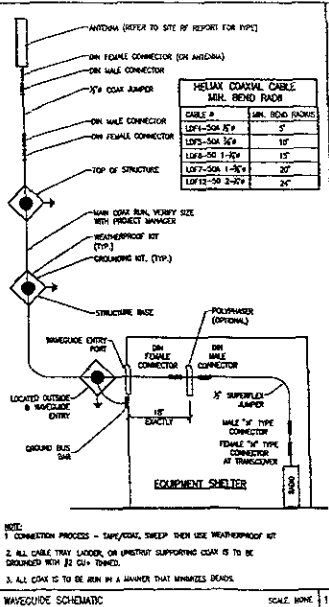
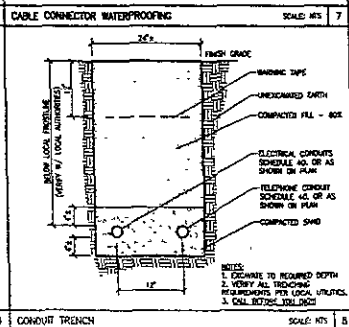
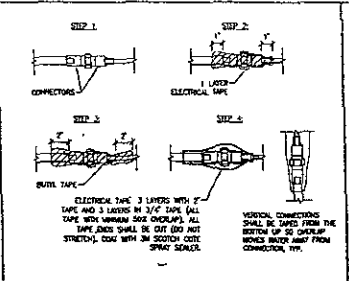
**1. CONFORMANCE:** ALL WORK WITH ELECTRICAL UTILITY COMPANY AND PROPERTY OWNERS/MANAGER.

**2. REVIEW AND ALLOW FOR EXISTING CONDITIONS.**

**3. ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AS WELL AS APPLICABLE LOCAL CODES.**

ALL SCHEDULED, NOTES, AND DIMENSIONS ON ELECTRICAL SHEETS WERE PROVIDED BY LESSEE/OWNER. AN ELECTRICAL ENGINEER HAS NOT RETURNED TO COMPLETE THE INFORMATION.

**ELECTRICAL NOTES** SCALE: NONE 4



RELEASE	
DATE	
CONDUCT	ECO REVIEW
SUCCESS	ECO FINAL

REVISION	
NO.	DATE
1	
2	
3	
4	
5	

SEE PAGE

**SIoux PARK / CITY OF RAPID CITY**

SEE NUMBER

**SDRC**

FIG. JOB NUMBER: **240204** DRAWN BY: **PI** CHECKED BY: **CS**

SEE ADDRESS

14N 472726.84" W 1031187.22" N  
RAPID CITY, SD 57702

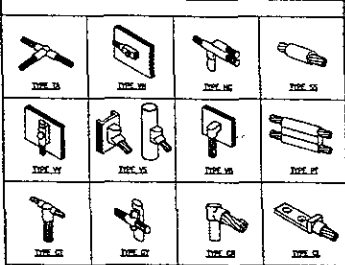
SHEET TITLE

ELECTRICAL DETAILS  
ELECTRICAL NOTES

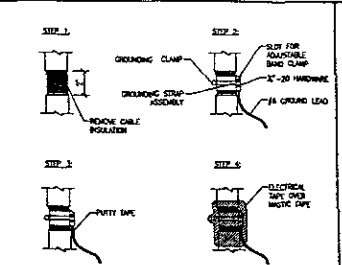
SHEET NUMBER

**E-1**

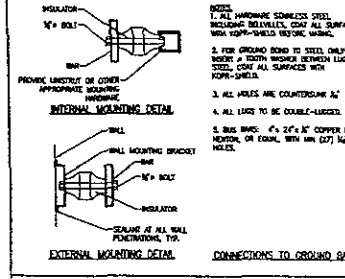
PLP SCALE: PAPER SIZE 24"x36"



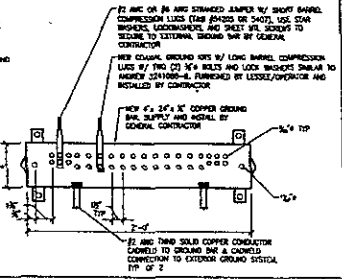
CADWELD CONNECTION PRODUCTS SCALE: NTS 3



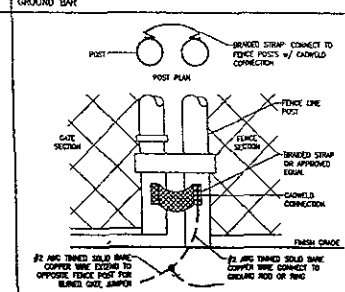
COAXIAL CABLE GROUNDING SCALE: NTS 9



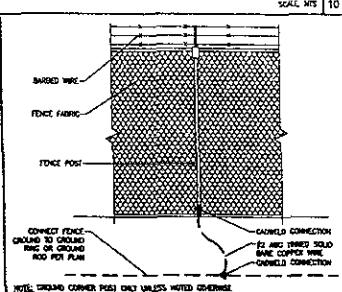
INTERNAL MOUNTING DETAIL EXTERNAL MOUNTING DETAIL



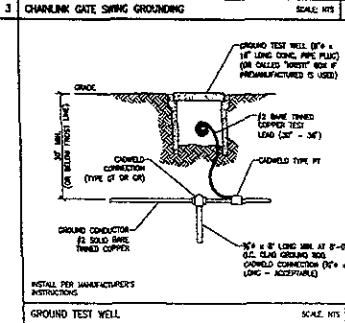
CONNECTIONS TO GROUND BUS SCALE: NTS 10



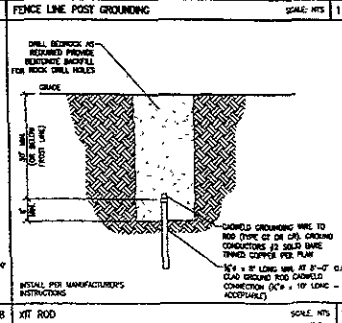
HVAC GROUNDING DETAIL SCALE: NTS 3



CHAINLINK GATE WIRING GROUNDING SCALE: NTS 7



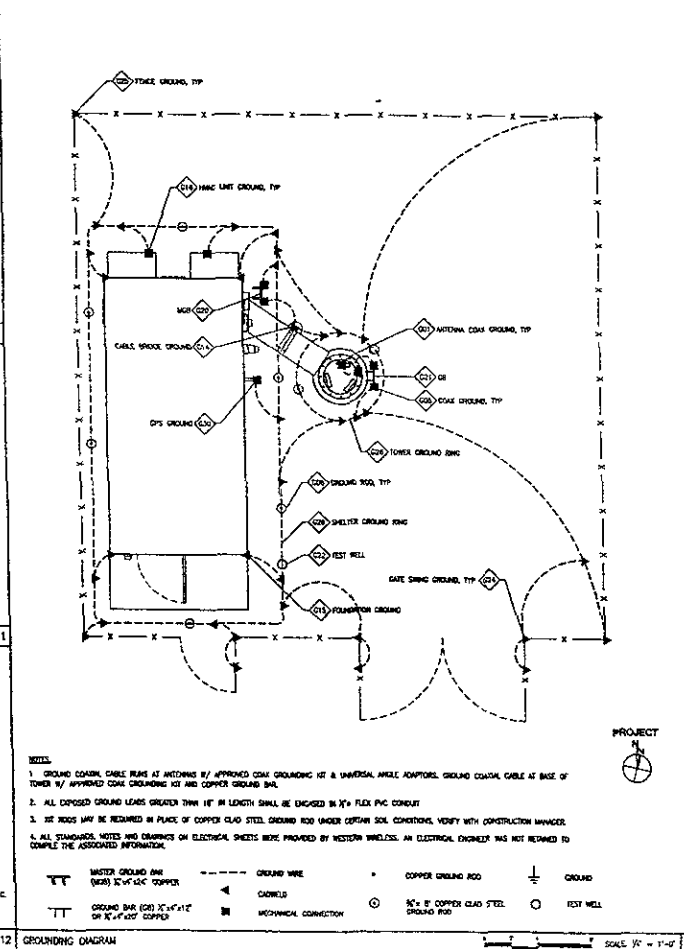
GROUND TEST WELL SCALE: NTS 8



FENCE LINE POST GROUNDING SCALE: NTS 11

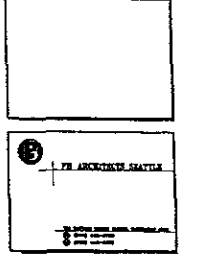
#	DESCRIPTION	SEE REFERENCE	#	DESCRIPTION	SEE REFERENCE
1	GROUND ANTENNA WITH COAXIAL CONNECTIONS ATTACHED TO UNIVERSAL ADAPTER @ TOP OF TOWER		10	PROPOSED GROUND BAR	10
2	GROUNDING CLAMP TO GROUND BAR @ BASE OF TOWER		11	PROPOSED GROUND TEST WELL	11
3	GROUNDING STRAP @ BASE OF TOWER		12	GROUND CHAIN-LINK GATE WIRING TO GROUND BUS	12
4	GROUND ROD @ INTERMEDIATE LENGTH TO GROUND ROD		13	GROUND PROPOSED CHAIN-LINK FENCE TO GROUND BUS, TYP	13
5	GROUND CHAIN-LINK GATE WIRING TO GROUND BUS		14	PROPOSED TOWER GROUND RING CONNECT TO PROPOSED GROUNDING GROUND RING @ THE LEADING END	14
6	GROUND STRUCTURE FOUNDATION TO GROUND BUS @ THE LEADING END		15	PROPOSED SHEDDER GROUND RING CONNECT TO PROPOSED GROUNDING GROUND RING @ THE LEADING END	15
7	GROUND EQUIPMENT SHEDDER WIRE UNIT TO GROUND BUS		16	PROPOSED GROUNDING GROUND RING @ THE LEADING END	16
8	PROPOSED WATER GROUND BAR @ EQUIPMENT		17	GROUND GPS ANTENNA TO GROUND BUS	17

KEY NOTE LEGEND



GROUNDING DIAGRAM SCALE: 1/4" = 1'-0" 20

**western wireless**  
 WESTERN WIRELESS  
 3800 32ND AVENUE SE, #400  
 BELLINGHAM, WASHINGTON 98226  
 PHONE (425) 688-8725  
 FAX (425) 688-8825



THIS DRAWING IS CONFIRMED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PROVIDED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED HEREIN IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

RELEASE DATE	BY	FOR
05/04/04	CD	REVIEW
05/02/04	CD	FINAL

REVISION	NO.	DATE

PROJECT  
**SIoux PARK / CITY OF RAPID CITY**  
 SITE NUMBER  
**SDRC**  
 PRR 238 RANDED  
**240204**  
 DATE ADDED  
 05/10/2004  
 LONG 101°18'32.22" W  
 RAPID CITY, SD 57702

SHEET TITLE  
**GROUNDING DETAILS**  
 GROUNDING DIAGRAM  
 SHEET NUMBER  
**E-2**  
 PLOT SCALE  
 PAPER SIZE 11" x 17"