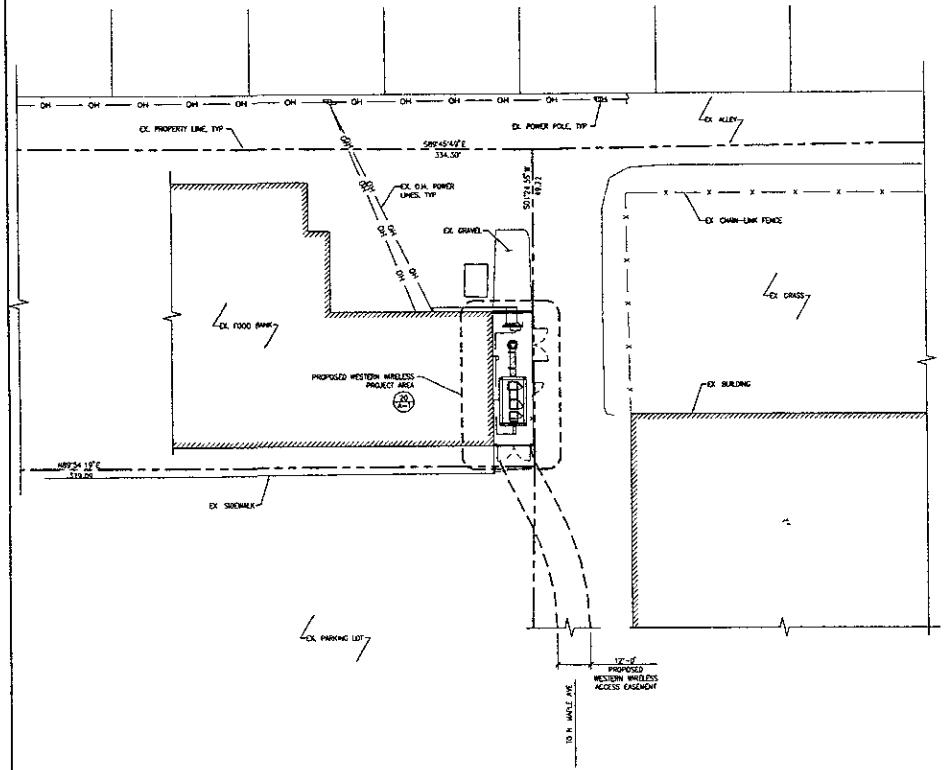


SEE SURVEY ADDRESS TO BE ISSUED UPON APPROVAL OF THE BUILDING PERMIT

NOTE



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

SITE PLAN

SCALE 1" = 20'-0"



SITE NAME:
 MAPLE AVE. / COMM. FOOD BANK OF SD

SITE NUMBER:
 SDRC

SEE SURVEY SHEET C-1

LEGAL DESCRIPTION

SITE NAME:
 MAPLE AVE / COMM. FOOD BANK OF SD

SITE NUMBER:
 SDRC

SITE ADDRESS:
 814 N. MAPLE AVE.
 RAPID CITY SD 57701

OWNER:
 COMMUNITY FOOD BANKS OF SD
 814 N. MAPLE AVE.
 RAPID CITY SD 57701
 TEL: 605.355.0504
 CONTACT: WATT GARDEN

CALL ADDRESS:
 8511 SITE ADDRESS
 CITY, STATE, ZIP

APPLICANT:
 WESTERN WIRELESS
 3650 131ST AVENUE SE PARD
 BELLEVUE, WA 98005

ZONING:
 MC - NEIGHBORHOOD COMMERCIAL

JURISDICTION:
 CITY OF RAPID CITY

PARCEL NUMBER:
 2731491009

POWER COMPANY:
 SNAPE HILLS POWER CO
 TEL: 605.843.8849

TELEPHONE COMPANY:
 TEL

PROJECT DESCRIPTION:
 WESTERN WIRELESS PROPOSES TO CONSTRUCT AN UNSHARED RADIO TELECOMMUNICATIONS FACILITY CONSISTING OF RADIO TRANSMITTER EQUIPMENT MOUNTED ON A STEEL PLATFORM AT GRADE AND THE INSTALLATION OF 2 PANEL ANTENNAS WITHIN A PROPOSED 100'-0" STEALTH FLAGPOLE FOR RADIO COMMUNICATIONS.

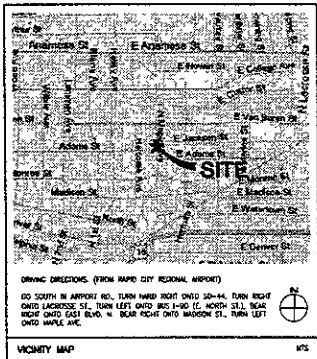
PROJECT SUMMARY

ARCHITECT:
 FRB BILLORE
 303 BATTERY ST
 SEATTLE, WA 98121
 TEL: 206.468.9275
 FAX: 206.452.5021
 CONTACT: ERIC SLADKY

STRUCTURAL ENGINEER:
 POWER ENGINEERING CORPORATION
 5105 200TH ST SW, SUITE 200
 LYNNWOOD WA 98036
 TEL: 206.823.6500
 FAX: 425.873.2496
 CONTACT: MADISON BAIT

SURVEYOR:
 BRUCE ENGINEERING, INC
 118 SOUTH GALLETT AVE
 OLLLETTE, WI 82718
 TEL: 307.698.2552
 FAX:
 CONTACT:

PROJECT TEAM



SHEET NUMBER	DESCRIPTION
T-1	SITE PLAN, PROJECT INFORMATION
C-1	SITE SURVEY
A-1	EAST ELEVATION ENLARGED SITE PLAN
A-2	CONSTRUCTION DETAILS, CONSTRUCTION NOTES
E-1	ELECTRICAL DETAILS, ELECTRICAL NOTES
E-2	ORGANIC DESIGN
E-2	ORGANIC DETAILS

DOCUMENT REVIEW

LANDLORD	DATE
SITE ACQUISITION	DATE
BY ENGINEER	DATE
PROJECT MANAGER	DATE
CONSOLE MANAGER	DATE

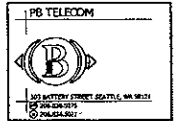
APPROVALS



WESTERN WIRELESS
 3650 131st AVENUE SE, #400
 BELLEVUE, WASHINGTON 98008
 PHONE: (425) 886-8226
 FAX: (425) 886-8815

PRELIMINARY

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RELEASE

DATE: _____
 BY: _____

NO.	DATE	REVISIONS

SITE NAME:
 MAPLE AVE. / COMM. FOOD BANK OF SD

SITE NUMBER:
 SDRC

PERM. JOB NUMBER: _____ **IN HOUSE:** _____

240203 **DESIGN BY:** _____ **CREATED BY:** _____

SITE ADDRESS:
 814 N. MAPLE AVE
 RAPID CITY, SD 57701

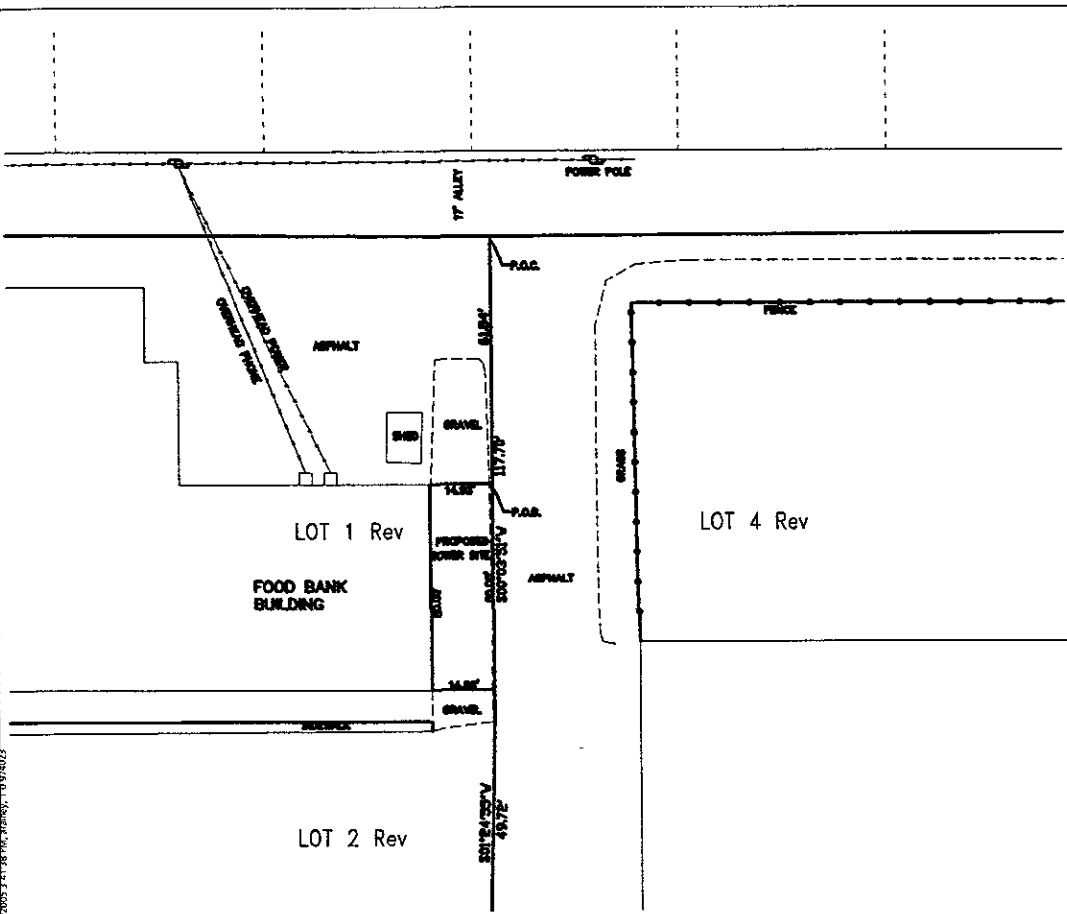
SHEET TITLE:

SITE PLAN PROJECT INFORMATION

SHEET NUMBER:

T-1

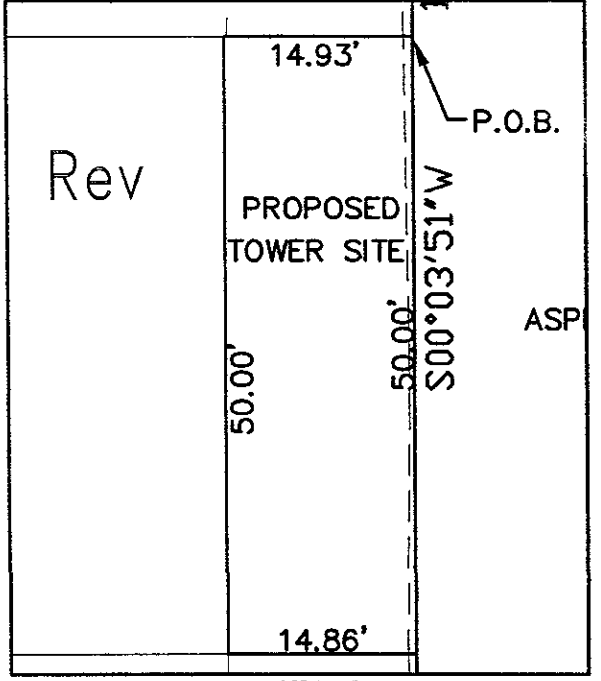
PLOT SCALE: PAPER SIZE: 24" X 36"



LEGAL DESCRIPTION

A tract of land that is located in a portion of Lot 1 Rev in a replat of a portion of Wise's Addition including Lot 1 Rev, Lot 2 Rev, Lot 3 Rev, Lot 4 Rev and Lot 5 Rev of Block 6 (formerly lots 18-21 of Block 4, Lots 19-36 of Block 5, Lots 1-36 of Block 6, Lots 14-21 of Block 7 and the previously vacated portions of East Jackson Street and the previously vacated portions of Herman Street.) located in the SW 1/4 of the NW 1/4 of Section 31, T 2 N, R 8 E of the Black Hills Meridian, Rapid City, Pennington County, South Dakota, being more particularly described as follows:

Commencing at the Northeast corner of said Lot 1 Rev as recorded in Book 20 of Plats, Page 62 of records of the Pennington County Register of Deeds; thence S 00° 05' 51" W along the east line of said Lot 1 Rev, 61.84 feet to the point of beginning; thence continuing S 00° 05' 51" W along the said east line of Lot 1 Rev, 50.00 feet; thence S 89° 52' 25" W, 14.86 feet to the southeast corner of the Food Bank Building; thence N 00° 01' 04" E along the east line of the said Food Bank Building, 50.00 feet to the northeast corner of the said Food Bank Building; thence N 89° 52' 28" E, 14.93 feet to the point of beginning. Said parcel contains 0.02 acres, more or less.



DETAIL VIEW
1" = 30'



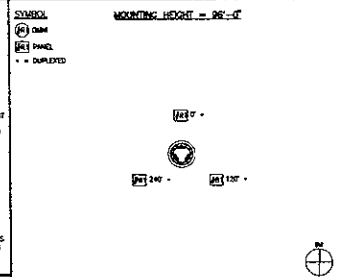
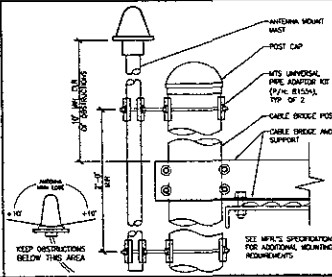
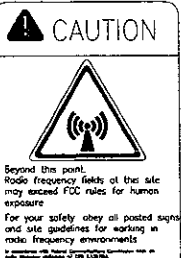
CERTIFICATE OF SURVEYOR

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 plot is a true and accurate description of the property to the best of my knowledge and belief.

LEGEND

- △ FOUND SECTION CORNER
- ⊙ FOUND REBAR & AC LSS36
- PROPOSED TOWER
- ⊙ PROPOSED ANCHOR
- EXISTING TOWER
- ⊙ EXISTING ANCHOR
- EXISTING FENCE

PREPARED FOR:	
WESTERN WIRELESS P.O. BOX 53410 BELLEVUE, WY 88015	
 BRUCE ENGINEERING, INC. 118 South Juliette Ave Gillette, WY 82715 (307) 686-2252	
DRAWN BY: EDP	CHECKED BY:
DATE: 2/24/05	DATE: X
1 <small>AutoCAD File name: 05SR012.dwg</small>	



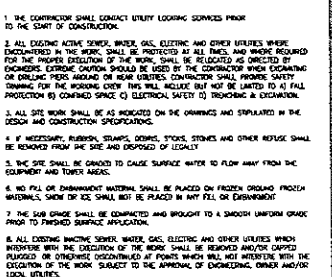
RADIO FREQUENCY SIGN SCALE: 1/8" = 1'-0" 1

GPS ANTENNA @ CABLE BRIDGE SCALE: 3/4" = 1'-0" 5

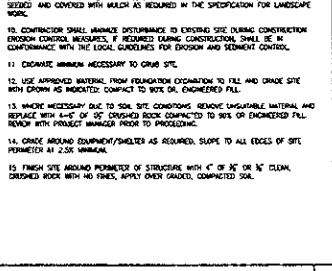
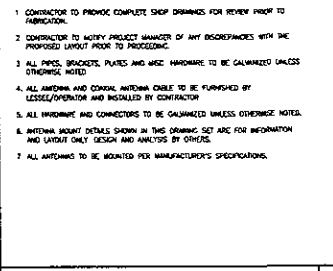
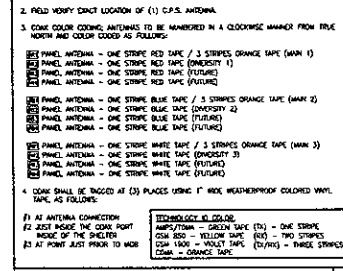
ANTENNA MOUNTING NOTES SCALE: 3/4" = 1'-0" 5



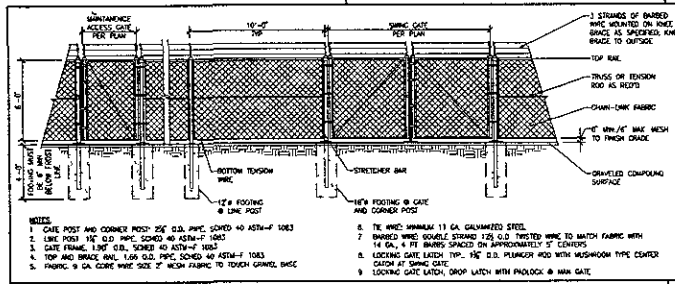
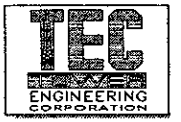
ANTENNA NOTES SCALE: NONE 14



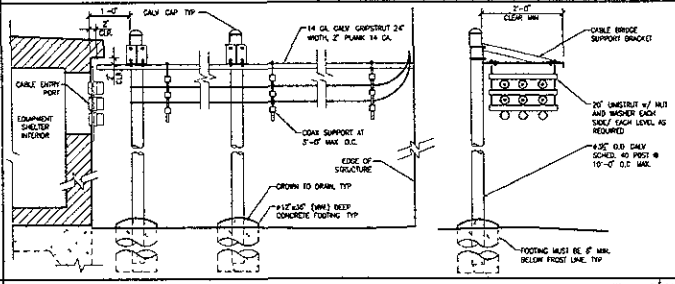
GENERAL SITE WORK NOTES SCALE: NONE 18



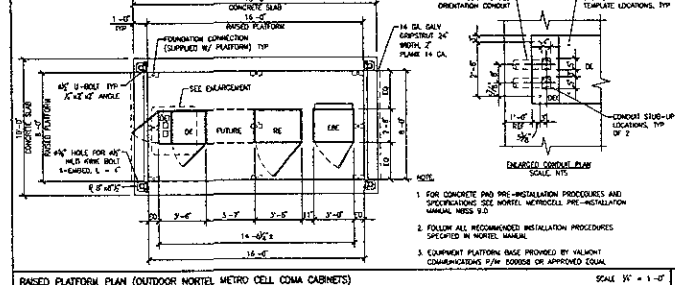
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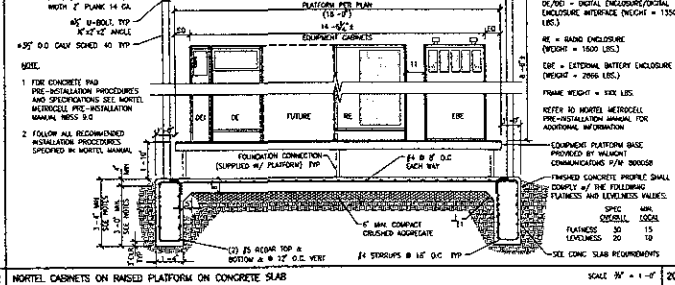
CHAINLINK GATE AND PANEL SECTION SCALE: 1/2" = 1'-0" 11



CABLE BRIDGE FROM SHELTER SCALE: 1/2" = 1'-0" 18



RAISED PLATFORM PLAN (OUTDOOR NORTTEL METRO CELL COMA CABINETS) SCALE: 1/4" = 1'-0" 12



NORTTEL CABINETS ON RAISED PLATFORM ON CONCRETE SLAB SCALE: 1/4" = 1'-0" 20

Table with columns: RELEASE, DATE, COMMENTS, CD REVIEW, REVISIONS, NO., DATE.

THE NAME: MAPLE AVE / COMM. FOOD BANK OF SD THE NUMBER: 242023 SITE ADDRESS: 814 N MAPLE AVE, BARD CITY SD 57701

SHEET TITLE: CONSTRUCTION DETAILS CONSTRUCTION NOTES SHEET NUMBER: A-2 PLOT SCALE: PAPER SIZE: 34" X 44"



WESTERN WIRELESS
 3900 153RD AVENUE S.E. #420
 BELLEVUE, WASHINGTON 98006
 PHONE: (425) 836-8725
 FAX: (425) 836-8858

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CONSTRUCTION



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RELEASE
DATE
THRU
CD REVIEW

REVISION
NO.
DATE
DESCRIPTION

SITE NAME
MAPLE AVE. / COMM. FOOD BANK OF SD

SDRC
 PWA JOB NUMBER: **240203** IN HOUSE
 DRAWN BY: **HN**
 CHECKED BY: **DS**
 SITE ADDRESS:
**814 N MAPLE AVE
 RAPID CITY, SD 57701**

SHEET TITLE
GROUNDING DIAGRAM

SHEET NUMBER

E-2
 PAPER SCALE: PAPER SIZE 24"x36"

GROUNDING SYMBOLS

	MASTER GROUND BAR (MGB) 1/2" x 1/2" x 24" COPPER		GROUND WIRE
	GROUND BAR (GB) 1/2" x 1/2" x 12" OR 1/2" x 1/2" x 24" COPPER		GROUND
	COPPER GROUND ROD		MECHANICAL CONNECTION
	1/2" x 1/2" COPPER CLAD STEEL GROUND ROD		TEST WELL

#	DESCRIPTION	SEE REFERENCE
(A)	GROUND ANTENNA WITH COAXIAL GROUNDING KIT ATTACHED TO UNIVERSAL ADAPTER @ TOP OF TOWER	(A)
(B)	GROUND COAX TO GROUND BAR @ BASE OF TOWER	(B)
(C)	GROUND ROD @ MIDWAY, EQUAL TO LENGTH OF GROUND ROD	(C)
(D)	GROUND EQUIPMENT CABINET TO MGB	(D)
(E)	GROUND UTILITY BACKBOARD TO GROUND ROD	(E)
(F)	GROUND CABLE BRIDGE TO GROUND RING	(F)
(G)	GROUND STRUCTURE FOUNDATION TO GROUND RING @ TWO LOCATIONS, MIN.	(G)

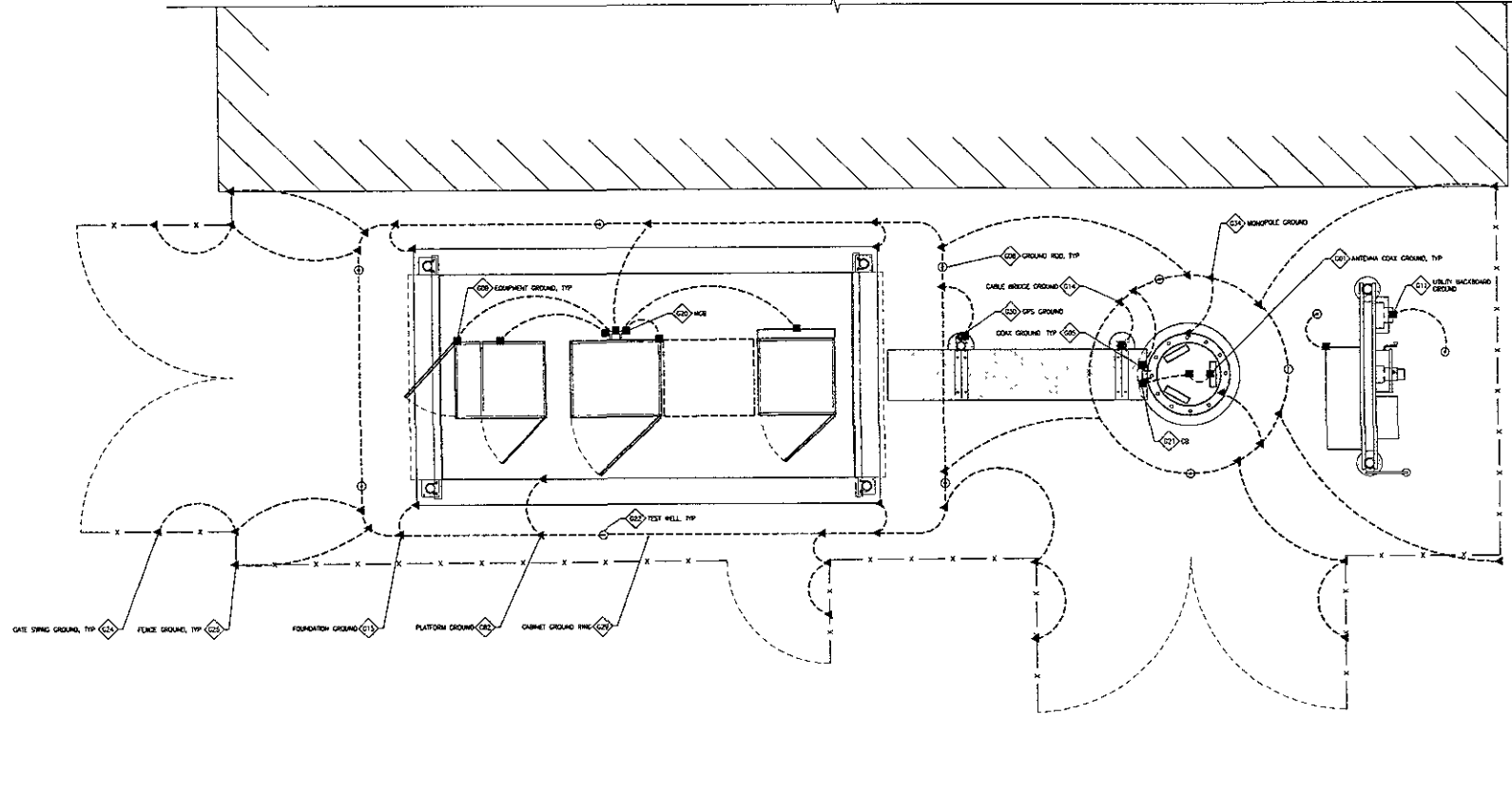
KEY NOTE LEGEND

#	DESCRIPTION	SEE REFERENCE
(H)	PROPOSED MASTER GROUND BAR @ EQUIPMENT	(H)
(I)	PROPOSED GROUND BAR	(I)
(J)	PROPOSED GROUND TEST WELL	(J)
(K)	GROUND CHAIN-LINK GATE SPRING TO GROUND RING	(K)
(L)	GROUND PROPOSED CHAIN-LINK FENCE TO GROUND RING, TYP.	(L)
(M)	PROPOSED EQUIPMENT CABINET GROUND RING CONNECT TO PROPOSED TOWER GROUND RING @ TWO LOCATIONS, MIN.	(M)
(N)	GROUND GPS ANTENNA TO GROUND RING	(N)

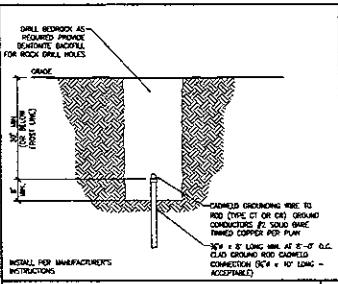
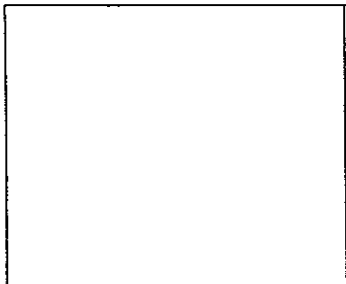
KEY NOTE LEGEND

#	DESCRIPTION	SEE REFERENCE
(O)	GROUND MONOPOLE TO GROUND RING @ TWO LOCATIONS, MIN.	(O)
(P)	GROUND EQUIPMENT PLATFORM TO GROUND RING	(P)

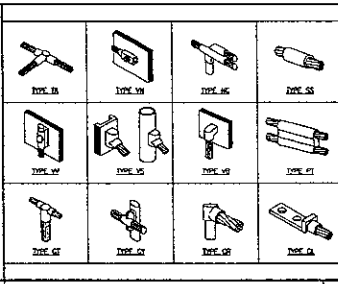
KEY NOTE LEGEND



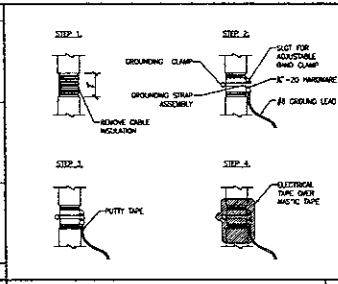
- NOTES**
- GROUND COAXIAL CABLE RINGS AT ANTENNAS W/ APPROVED COAX GROUNDING KIT @ UNIVERSAL ADAPTER, GROUND COAXIAL CABLE AT BASE OF TOWER W/ APPROVED COAX GROUNDING KIT AND COPPER GROUND BAR
 - ALL EXPOSED GROUND LEADS GREATER THAN 1/4" IN LENGTH SHALL BE ENCASED IN 1/4" PLASTIC CONDUIT
 - TEST RODS MAY BE REQUIRED IN PLACE OF COPPER CLAD STEEL GROUND ROD UNDER CERTAIN SOIL CONDITIONS, VERIFY WITH CONSTRUCTION MANAGER
 - ALL STANDARDS, NOTES AND DRAWINGS ON ELECTRICAL SHEETS WERE PROVIDED BY WESTERN WIRELESS. AN ELECTRICAL ENGINEER WAS NOT RETAINED TO COMPLETE THE ASSOCIATED INFORMATION.



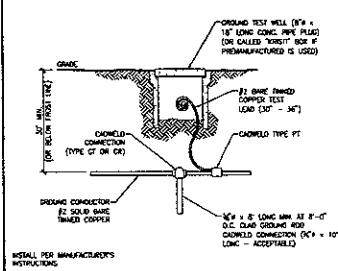
SCALE NTS 5



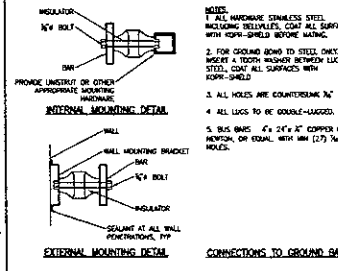
SCALE NTS 9



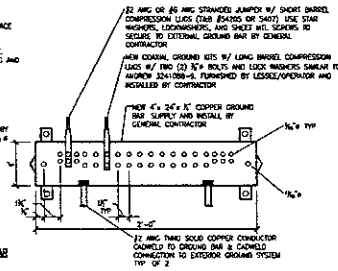
SCALE NTS 13



SCALE NTS 6



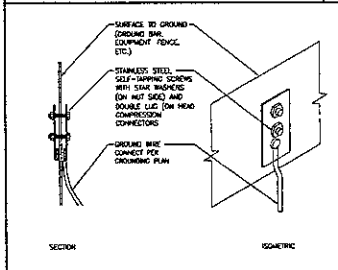
SCALE NTS 14



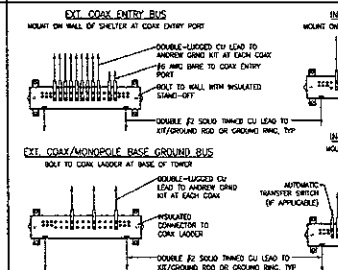
SCALE NTS 14

- GROUNDING LAYOUT MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- THE BUILDING GROUND LOCATION SHALL BE APPROVED BY THE PROJECT MANAGER. NOTIFY PROJECT MANAGER OF ANY DIFFICULTIES INSTALLING THE GROUNDING SYSTEM DUE TO SITE OR SOIL CONDITIONS.
- GROUND TEST CONDUCTOR SHALL PROVIDE TEST OF THE GROUNDING SYSTEM BY A CERTIFIED TESTING AGENCY PROVIDING MECHANICAL TEST RESULTS TO THE PROJECT MANAGER FOR REVIEW. GROUNDING SYSTEM RESISTANCE TO EARTH GROUND SHALL NOT EXCEED 5 OHMS. IF THE GROUND TEST EXCEEDS THE MAXIMUM OF 5 OHMS, CONTRACTOR SHALL PROVIDE ADDITIONAL GROUNDING AS REQUIRED.
- ALL GROUND WIRE SHALL BE THE CORRECT AND GREEN INSULATED WIRE UNLESS OTHERWISE NOTED. PROVIDE GROUND CONDUCTORS TO GROUND ROOF AS INDICATED ON GROUNDING DIAGRAM. GROUND RODS SHALL BE #4 8'-10" COPPER CLAD STEEL RODS OR #10 RODS. PROVIDE TEST LEAD/WEELS.
- CONNECTIONS ALL ABOVE-GRADE INTERIOR GROUNDING CONNECTIONS SHALL BE DOUBLE-LUG COMPRESSION TYPE. ALL BELOW-GRADE AND EXPOSED EXTERIOR GROUNDING CONNECTIONS TO PERMANENT EQUIPMENT AND FIXED BUILDING ELEMENTS SHALL BE GALLEY TYPE DEEPLY AS SPECIFIED ABOVE. CONTACT CORRECT GROUND FRAME TO GROUND USING STAINLESS STEEL SELF-TAPPING SCREWS WITH DOUBLE-LUG COMPRESSION CONNECTORS. VERIFY CONNECTION LOCATIONS AND WELDING TYPES TO AVOID POSSIBLE CORROSION CONSIDERATION.
- ALL EXPOSED GROUNDING CONNECTING TO BE COATED WITH ANTI-CORROSION AGENT SUCH AS "HD-01" WAXOIL OR "PLASTO-BOND" VERIFY PRODUCT WITH PROJECT MANAGER.
- ALL BOLTS, WASHERS AND NUTS USED ON GROUNDING CONNECTORS SHALL BE STAINLESS STEEL.
- REWORKS: ALL EXPOSED GROUNDING CONNECTIONS SHALL BE ROUTED IN PVC RIGIDITY PVC RIGIDITY MAY BE FLEXIBLE OR RIGID. GROUND CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC SURFACES, SURFACES OR LEADS.

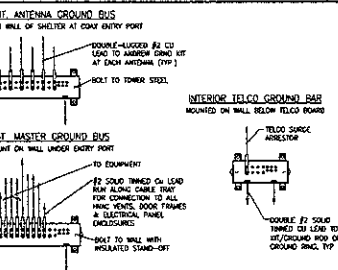
SCALE NTS 14



SCALE NTS 7



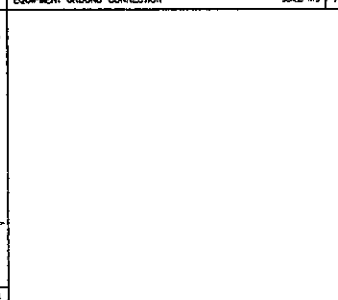
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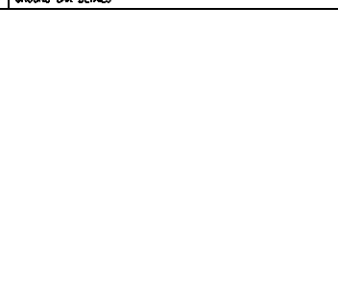
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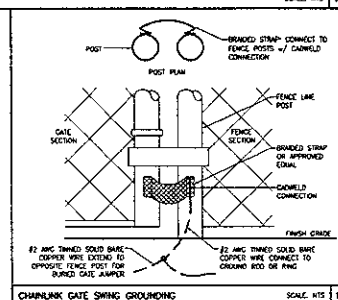
SCALE NTS 19



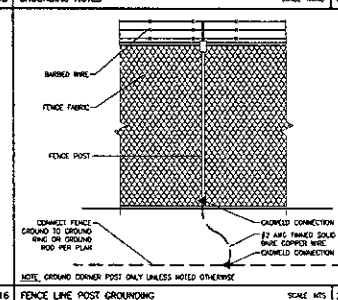
SCALE NTS 1-1/4



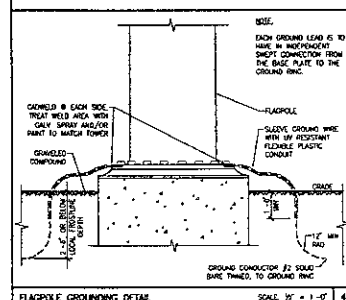
SCALE NTS 15



SCALE NTS 16



SCALE NTS 20



SCALE NTS 1-1/4



WESTERN WIRELESS
3850 13TH AVENUE SE 4400
BELLEVUE WASHINGTON 98004
PHONE 425 834-8720
FAX 425 834-8288

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180000
DATE
THRU/ISSUE CD REVIEW

NO.	DATE

SITE NAME

MAPLE AVE. / COMM. FOOD BANK OF SD

SITE NUMBER

SDRC

240203

814 N MAPLE AVE
RAPID CITY SD 57701

SHEET TITLE

GROUNDING DETAILS
GROUNDING NOTES

SHEET NUMBER

E-3

PLOT SCALE PAPER SIZE 24 x 36