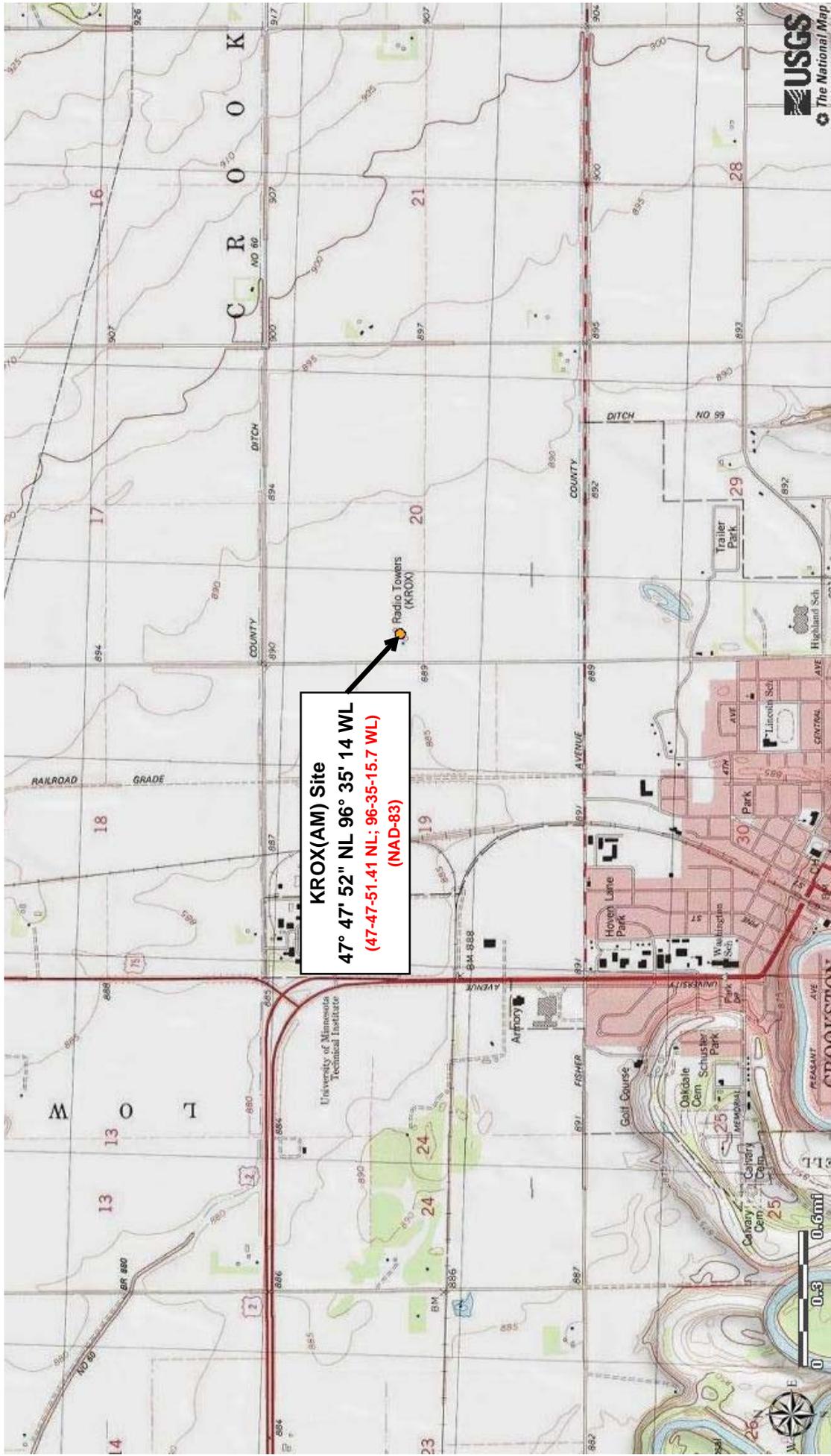


# The National Map

NOTES: Data available from U.S. Geological Survey, National Geospatial Program.

## Exhibit 13.1 - Topographical Map Showing KROX(AM) Site



# The National Map

NOTES: Data available from U.S. Geological Survey, National Geospatial Program.

## Exhibit 13.2 - Aerial Photograph Showing KROX(AM) Site



ASR Registration Search  
**Registration 1023284**

 [Map Registration](#)

**Exhibit 13.3**  
**Copy of Antenna Structure Registration**

**Registration Detail**

Reg Number	1023284	Status	Constructed
File Number	A0984049	Constructed	06/01/1950
EMI	No	Dismantled	
NEPA	No		

**Antenna Structure**

Structure Type 2GTA2

**Location** (in NAD83 Coordinates)

Lat/Long	47-47-50.7 N 096-35-16.6 W	Address	WEST TWR - 1.25 MI N JCT CENTRAL AVE & BARRETTE ST
City, State	CROOKSTON , MN	County	POLK
Zip	56716	Position of Tower in Array	1 of 2
Center of AM Array	47-47-51.4 N 096-35-15.7 W		

**Heights (meters)**

Elevation of Site Above Mean Sea Level	271.0	Overall Height Above Ground (AGL)	69.8
Overall Height Above Mean Sea Level	340.8	Overall Height Above Ground w/o Appurtenances	68.9

**Painting and Lighting Specifications**

FCC Paragraphs 1, 3, 12, 21

**FAA Notification**

FAA Study	2015-AGL-10577-OE	FAA Issue Date	09/22/2015
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**Owner & Contact Information**

FRN	0003725314	Owner Entity Type	Corporation
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**Owner**

GOPHER COMMUNICATIONS COMPANY Attention To: CHRIS FEE P.O. Box 620 CROOKSTON , MN 56716	P: (218)281-1140 F: E: chrisjfee@yahoo.com
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**Contact**

FEE , CHRIS P.O. Box 620 CROOKSTON , MN 56716	P: (218)281-1140 F: E: chrisjfee@yahoo.com
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**Last Action Status**

Status	Constructed	Received	11/30/2015
Purpose	Notification	Entered	11/30/2015

**Exhibit 13.3**  
**Copy of Antenna Structure Registration**

Mode                      Interactive

**Related Applications**

11/30/2015	A0984049	- Notification (NT)
11/24/2015	A0983870	- Modification (MD)
06/16/1997	A0027776	- New (NE)

**Comments****Comments**

11/30/2015	RED LIGHTS / PAINT WITH FAA APPROVAL OF BIRD DEVIATION SPECIAL CONDITION. (GRANDFATHERED LIGHTING LEVELS PER FCC PARAGRAPHS 1,3,12,21).
11/30/2015	The FAA has approved the absence of steady burning red obstruction (L-810) lights on this structure. Accordingly, this tower will use red flashing lights (L-864) only.
11/30/2015	Refer to the Technical Report (Technical Note DOT/FAA/TC-TN12/9 Evaluation of New Obstruction Lighting Techniques to Reduce Avian Fatalities).

All comments (5)

**History**

<b>Date</b>	<b>Event</b>
12/01/2015	Registration Printed
11/30/2015	Construction Notification Received
11/30/2015	Modification Received

All History (5)

**Automated Letters**

12/01/2015	Authorization, Reference
11/25/2015	Application Receipt, Reference 888990
07/15/2015	FRN Association, Reference 870673

**CLOSE WINDOW**

ASR Registration Search

**Registration 1023285**[Map Registration](#)**Exhibit 13.3  
Copy of Antenna Structure Registration****Registration Detail**

Reg Number	1023285	Status	Constructed
File Number	A0984050	Constructed	06/01/1950
EMI	No	Dismantled	
NEPA	No		

**Antenna Structure**

Structure Type 2GTA2

**Location** (in NAD83 Coordinates)

Lat/Long	47-47-52.2 N 096-35-14.8 W	Address	EAST TWR - 1.25 MI N JCT CENTRAL AVE & BARRETTE ST
City, State	CROOKSTON , MN	County	POLK
Zip	56716	Position of Tower in Array	2 of 2
Center of AM Array	47-47-51.4 N 096-35-15.7 W		

**Heights (meters)**

Elevation of Site Above Mean Sea Level	270.7	Overall Height Above Ground (AGL)	69.8
Overall Height Above Mean Sea Level	340.5	Overall Height Above Ground w/o Appurtenances	68.9

**Painting and Lighting Specifications**

FCC Paragraphs 1, 3, 12, 21

**FAA Notification**

FAA Study	2015-AGL-10576-OE	FAA Issue Date	09/22/2015
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**Owner & Contact Information**

FRN	0003725314	Owner Entity Type	Corporation
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**Owner**

GOPHER COMMUNICATIONS COMPANY Attention To: CHRIS FEE P.O. Box 620 CROOKSTON , MN 56716	P: (218)281-1140 F: E: chrisjfee@yahoo.com
--	--

**Contact**

FEE , CHRIS P.O. Box 620 CROOKSTON , MN 56716	P: (218)281-1140 F: E: chrisjfee@yahoo.com
---	--

**Last Action Status**

Status	Constructed	Received	11/30/2015
Purpose	Notification	Entered	11/30/2015

Mode Interactive

**Exhibit 13.3**  
**Copy of Antenna Structure Registration****Related Applications**

11/30/2015	A0984050	- Notification (NT)
11/24/2015	A0983872	- Modification (MD)
06/16/1997	A0027777	- New (NE)

**Comments****Comments**

11/30/2015	RED LIGHTS / PAINT WITH FAA APPROVAL OF BIRD DEVIATION SPECIAL CONDITION. (GRANDFATHERED LIGHTING LEVELS PER FCC PARAGRAPHS 1,3,12,21).
11/30/2015	The FAA has approved the absence of steady burning red obstruction (L-810) lights on this structure. Accordingly, this tower will use red flashing lights (L-864) only.
11/30/2015	Refer to the Technical Report (Technical Note DOT/FAA/TC-TN12/9 Evaluation of New Obstruction Lighting Techniques to Reduce Avian Fatalities).

All comments (5)

**History****Date****Event**

12/01/2015	Registration Printed
11/30/2015	Construction Notification Received
11/30/2015	Modification Received

All History (5)

**Automated Letters**

12/01/2015	Authorization, Reference
11/25/2015	Application Receipt, Reference 888990
07/15/2015	FRN Association, Reference 870673

**CLOSE WINDOW**

# Exhibit 13.4 - KROX(AM) – Crookston, MN

## Vertical Plan of Antenna System

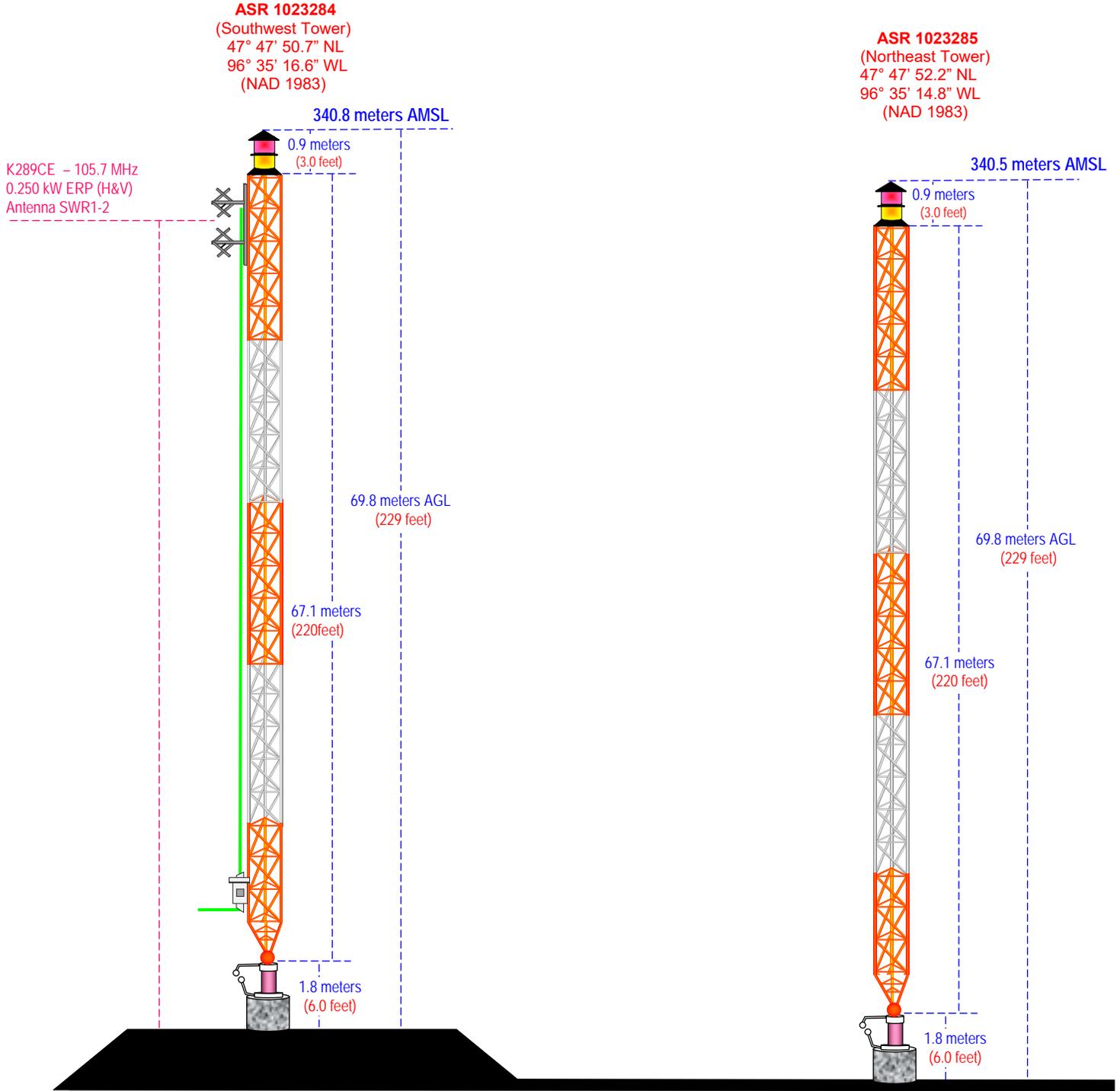
The site is located on the east side of 250<sup>th</sup> Avenue, 1.25 miles north of East Fisher Avenue, Crookston, Polk County, Minnesota.

### Site Location (NAD 27)

NL: 47° 47' 52"

WL: 96° 35' 14"

(47-47-51.4 NL; 96-35-15.7 WL NAD1983)



Ground Elevation = 271.0 m AMSL (889 feet)

Drawing is not to Scale

Ground Elevation = 270.7 m AMSL (888 feet)

Drawing is not to Scale

# Exhibit 13.5 - KROX(AM) Daytime Coverage Map

**KROX.P**  
 Crookston, MN  
 Daytime Operation  
 Freq: 1260 kHz  
 Class: B  
 Latitude: 47-47-52 N  
 Longitude: 096-35-14 W  
 Power: 1 kW  
 RMS: 313.82 mV/m @1km  
 # Towers: 1  
 # Augs: 0

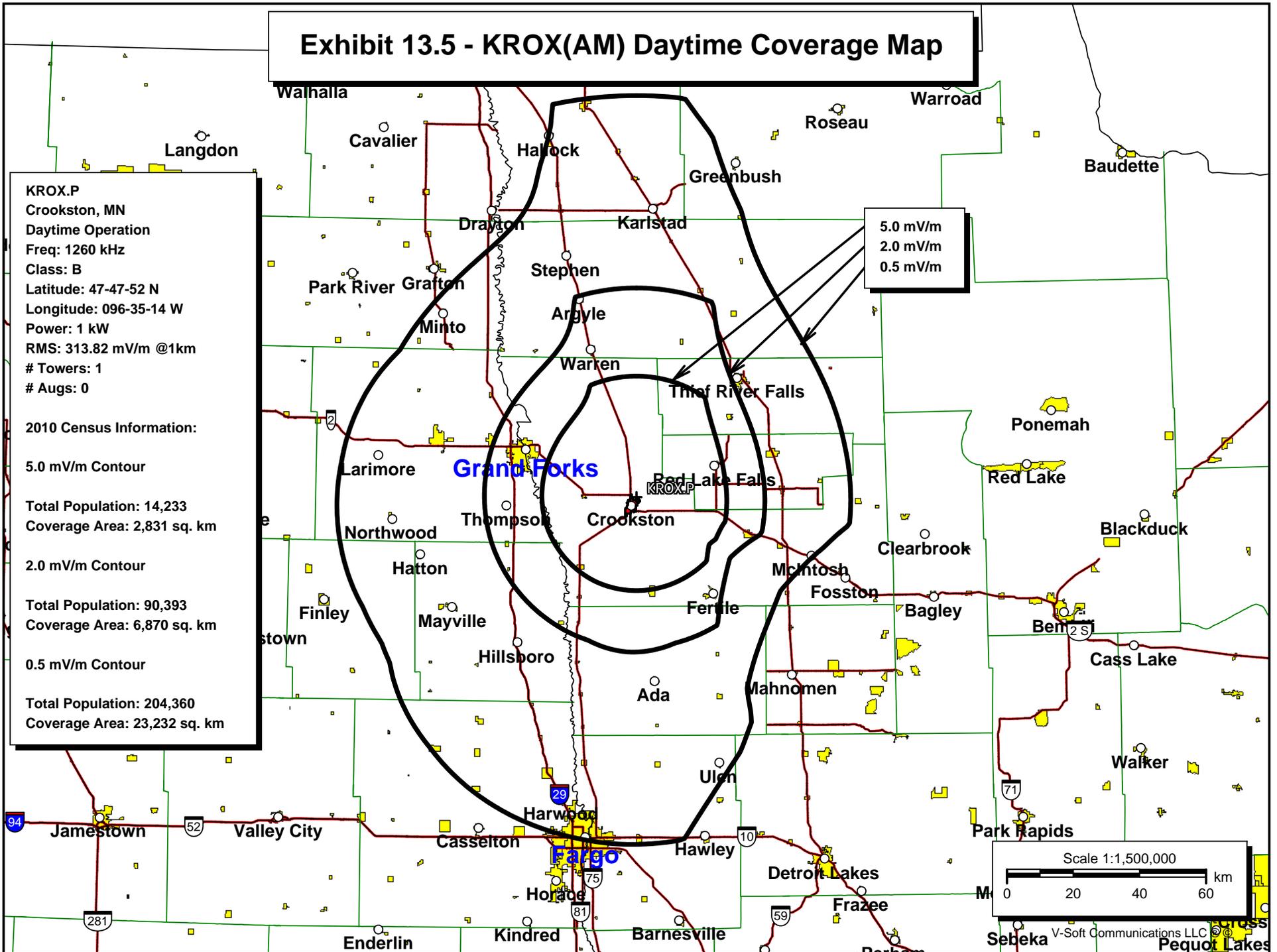
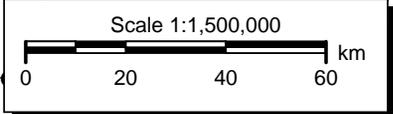
**2010 Census Information:**

**5.0 mV/m Contour**  
 Total Population: 14,233  
 Coverage Area: 2,831 sq. km

**2.0 mV/m Contour**  
 Total Population: 90,393  
 Coverage Area: 6,870 sq. km

**0.5 mV/m Contour**  
 Total Population: 204,360  
 Coverage Area: 23,232 sq. km

5.0 mV/m  
 2.0 mV/m  
 0.5 mV/m



# Exhibit 13.6 - KROX(AM) Nighttime Coverage Map

