

**K24NR-D**

0000160506

Latitude: 35-13-28.20 N

Longitude: 101-39-09.60 W

ERP: 0.05 kW

Channel: 24+

Frequency: 533.5 MHz

AMSL Height: 1094.2 m

Elevation: 1084.2 m

Horiz. Pattern: Directional

Vert. Pattern: Yes

Elec Tilt: 0.75

Prop Model: Longley-Rice

Climate: Cont temperate

Conductivity: 0.0050

Dielec Const: 15.0

Refractivity: 311.0


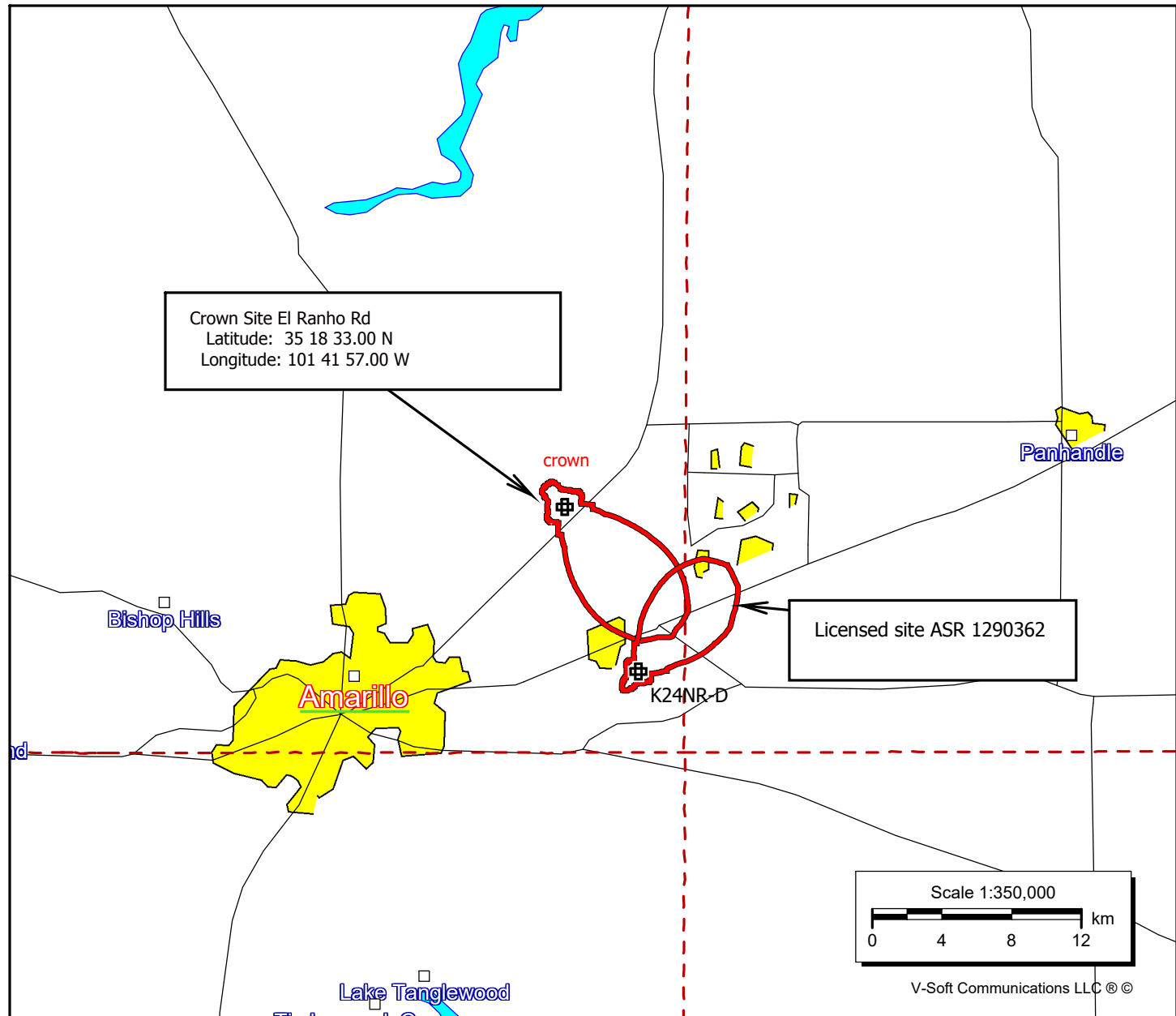
Receiver Ht AG: 10.0 m

Receiver Gain: 0 dB

Time Variability: 90.0%

Sit. Variability: 50.0%

ITM Mode: Broadcast

 Line of Sight

K24NR-D Amarillo FI 126859

Minor Modification: Change location, Applicant has been unable to negotiate favorable long term lease terms at the existing sites and needs to move immediately to a new location.

Study created: 2024.01.02 16:30:52

Study build station data: LMS TV 2024-01-02

Proposal: K24NR-D D24+ LD LIC AMARILLO, TX  
File number: El Rancho Rd @140  
Facility ID: 126859  
Station data: User record  
Record ID: 259  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KXAD-LD	D23	LD	CP	AMARILLO, TX	BLANK0000188794	17.4 km
No	KXAD-LD	D23	LD	LIC	AMARILLO, TX	BLANK0000225550	17.4
No	K23DE-D	D23	LD	LIC	CHILDRESS, TX	BLDTT20110510AAA	164.5
No	DK38BU-D	D23	LD	APP	GRUVER, TX	BLANK0000053123	107.9
No	KLCW-TV	D23	DT	LIC	WOLFFORTH, TX	BLANK0000074584	201.5
No	KRDO-TV	D24	DT	LIC	COLORADO SPRINGS, CO	BLCDT20060329AAW	473.9
No	KNAT-TV	D24	DT	LIC	ALBUQUERQUE, NM	BLCDT20130710AAN	431.3
No	K24MW-D	D24	LD	LIC	CLOVIS, NM	BLANK0000063651	168.5
No	K24MB-D	D24	LD	LIC	HOBBS, NM	BLANK0000063254	314.8
No	K24IY-D	D24	LD	LIC	RATON, NM	BLANK0000171109	288.0
No	K24ML-D	D24	LD	LIC	TAOS, NM	BLANK0000152059	366.8
No	K24NF-D	D24	LD	LIC	TUCUMCARI, NM	BLANK0000156875	182.7
No	KOKH-TV	D24	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121771	382.2
No	K24MD-D	D24	LD	LIC	SAYRE, OK	BLANK0000058434	181.1
No	DK40DD-D	D24	LD	APP	GRUVER, TX	BLANK0000053125	107.9
No	K32OV-D	N24+	TX	LIC	LUBBOCK, TX	BLTTL20050926ADH	199.8
No	KXTQ-CD	D24	DC	LIC	LUBBOCK, TX	BLANK0000063861	201.5
No	K24NK-D	D24	LD	LIC	MEMPHIS, TX	BLANK0000076194	114.4
No	KEOO-LD	D24	LD	LIC	MIDLAND, TX	BLANK0000178764	365.9
No	KEOO-LD	D24	LD	CP	MIDLAND, TX	BLANK0000223369	362.3
No	DK41BW-D	D24	LD	APP	NEW MOBEETIE, TX	BLANK0000053932	112.2
No	K41HQ-D	D24	LD	CP	QUANAH, TX	BLANK0000053929	216.9
No	K24IX-D	D24	LD	LIC	TURKEY, TX	BLDTT20101115FOC	114.0
No	K24HH-D	D24	DC	LIC	WICHITA FALLS, TX	BLDTL20101026ABY	327.8
No	K25CQ-D	D25	LD	LIC	CHILDRESS, TX	BLDTT20100708TPX	164.5
No	KTTZ-TV	D25	DT	LIC	LUBBOCK, TX	BLANK0000063358	192.8
No	K25CP-D	D25	LD	LIC	TULIA, TX	BLDTT20110425ACD	85.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24+  
Mask: Simple  
Latitude: 35 18 33.00 N (NAD83)  
Longitude: 101 41 57.00 W  
Height AMSL: 1106.0 m (Adjusted based on actual ground elevation calculation)  
HAAT: 0.0 m  
Peak ERP: 0.100 kW  
Antenna: SCA-CL-1469 (ID 36576) 140.0 deg  
Elev Pattn: Generic

49.8 dBu contour:  
Azimuth ERP HAAT Distance  
0.0 deg 0.000 kW 68.2 m 1.1 km

45.0	0.000	18.2	1.4
90.0	0.000	23.5	2.3
135.0	0.088	32.4	10.1
180.0	0.000	15.0	2.5
225.0	0.000	-3.9	1.4
270.0	0.000	48.4	1.1
315.0	0.000	60.9	2.2

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 33 m

Distance to Canadian border: 1521.6 km

Distance to Mexican border: 588.3 km

Conditions at FCC monitoring station: Grand Island NE  
Bearing: 23.6 degrees    Distance: 686.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 330.9 degrees    Distance: 617.8 km

Study cell size: 1.00 km  
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

---- Below is IX received by proposal El Rancho Rd @140 ----

Proposal receives 26.42% interference from scenario 1  
Proposal receives 26.42% interference from scenario 2  
No IX check failures found.