

# Exhibit 13.1 - Copy of Existing Antenna Structure Registration



## Registration Detail

Reg Number	1007362	Status	Constructed
File Number	A0430705	Constructed	01/17/1997
EMI	No	Dismantled	
NEPA	No		

## Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

### Location (in NAD83 Coordinates)

Lat/Long	45-03-46.0 N 083-42-56.0 W	Address	MANNING HILL MANNING HILL RD
City, State	LACHINE , MI		
Zip	49753	County	ALPENA
Center of AM Array		Position of Tower in Array	

## Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
277.4	152.1
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
429.5	151.2

## Painting and Lighting Specifications

FAA Chapters 4, 6, 13  
Paint and Light in Accordance with FAA Circular Number 70/7460-1H

## FAA Notification

FAA Study	94-AGL-1394-OE	FAA Issue Date	11/08/1994
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## Owner & Contact Information

FRN	0004770764	Owner Entity Type	
Assignor FRN	0002749794	Assignor ID	L00012730

### Owner

Edwards Communications, LC = WHSB  
Attention To: Jerry Edwards  
125 Eagle's Nest Drive  
Seneca , SC 29678

P: (864)882-3272  
F:  
E:

### Contact

P:  
F:  
E:

## Last Action Status

Status	Constructed	Received	03/02/2005
Purpose	Change Owner	Entered	03/02/2005
Mode	Interactive		

## Related Applications

03/02/2005	A0430705 - Change Owner (OC)
11/01/1996	A0008759 - New (NE)

## Comments

### Comments

01/11/1997	CHANGED PURPOSE FROM EXISTING TO NEW BASED ON APPLICATION INDICATING CONSTRUCTION WAS UNDERWAY.
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## History

### Date

03/03/2005  
03/03/2005  
03/02/2005

### Event

Registration Printed  
Change of Ownership Letter Sent  
Change of Ownership Received

## Automated Letters

03/03/2005	Ownership Change, Reference 405058
03/03/2005	Authorization, Reference 405202

## Output from NADCON for station ASR-1007362

North American Datum Conversion  
NAD 83 to NAD 27  
NADCON Program Version 2.11

Transformation #: 1 Region: Conus

	Latitude	Longitude
NAD 27 datum values:	45 03 45.96029	83 42 56.04660
NAD 83 datum values:	45 03 46.00000	83 42 56.00000
NAD 27 - NAD 83 shift values:	-0.03971	0.04660(secs.)
	-1.226	1.020 (meters)
Magnitude of total shift:		1.594(meters)

## Exhibit 13.2

### Vertical Plan of Antenna System

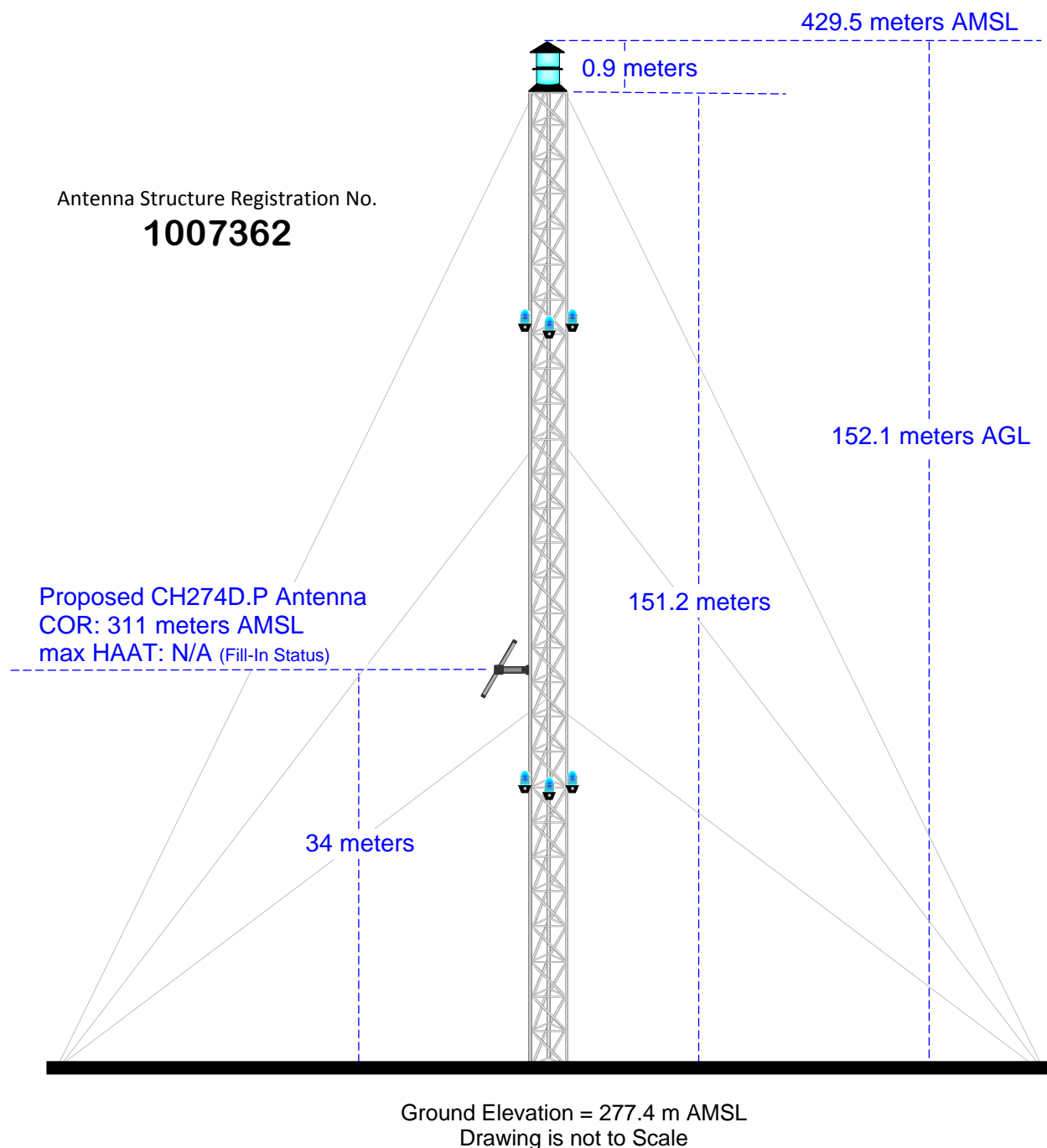
The site is located on top of Manning Hill;  
the city of Lachine; Alpena County; Michigan.

#### Site Location (NAD 27)

NL: 45° 03' 46"

WL: 83° 42' 56"

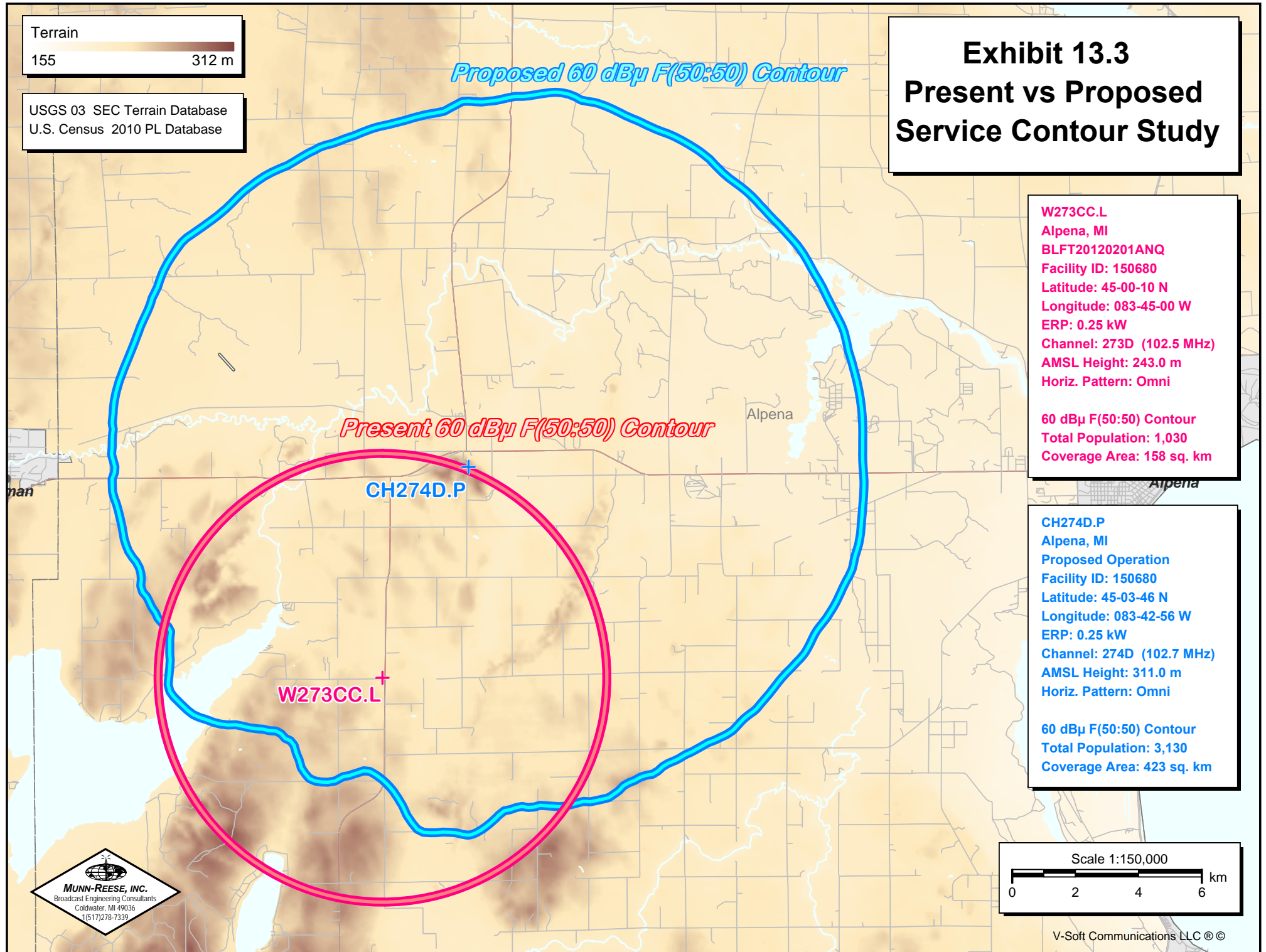
(45-03-46.0NL; 83-42-56.0WL NAD1983)



Terrain  
155 312 m

USGS 03 SEC Terrain Database  
U.S. Census 2010 PL Database

## Exhibit 13.3 Present vs Proposed Service Contour Study



Terrain  
61 467 m

USGS 03 SEC Terrain Database  
U.S. Census 2010 PL Database

## Exhibit 13.4 Proposed vs Primary Service Contour Study

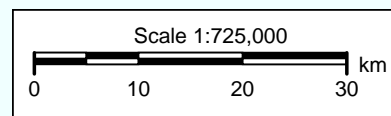
**CH274D.P**  
Alpena, MI  
Proposed Operation  
Facility ID: 150680  
Latitude: 45-03-46 N  
Longitude: 083-42-56 W  
ERP: 0.25 kW  
Channel: 274D (102.7 MHz)  
AMSL Height: 311.0 m  
Horiz. Pattern: Omni

**WHSB(FM)**  
Alpena, MI  
BLH19971027KE  
Facility ID: 15509  
Latitude: 45-03-46 N  
Longitude: 083-42-56 W  
ERP: 100.00 kW  
Channel: 299C1 (107.7 MHz)  
AMSL Height: 412.0 m  
Horiz. Pattern: Omni

**Primary 60 dBμ F(50:50) Contour**

**Proposed 60 dBμ F(50:50) Contour**

+  
**WHSB(FM)**  
**CH274D.P**



# Exhibit 13.5

## Tabulation of Proposed Allocation

West Central Michigan Media Ministries											
REFERENCE		CH# 274D - 102.7 MHz, Pwr= 0.25 kw, HAAT= 80.4 M, COR= 311 M								DISPLAY DATES	
45 03 46.0 N.		Average Protected F(50-50)= 11.6 km								DATA 04-26-15	
83 42 56.0 W.		Omni-directional								SEARCH 04-27-15	
CH CITY	CALL	TYPE STATE	ANT AZI	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
274D Alpena	W273CC	CP _V_ MI	243.3 63.1	19.85 BPFT20120202ACP	44 58 56.0 83 56 28.0	0.250 29	28.5 284	8.6 west central michigan medi	-19.5*	-25.7*	
273D Alpena	W273CC	LIC _V_ MI	202.1 22.1	7.19 BLFT20120201ANQ	45 00 10.0 83 45 00.0	0.250 5	10.1 243	7.1 west central michigan medi	-13.5*	-14.6*	
275C0 Indian River	WMKC	LIC _CX MI	295.8 114.9	113.82 BLH20121116ABV	45 30 05.0 85 01 49.0	100.000 324	101.5 557	69.4 Northern Star Broadcasting	1.0	28.2	
277C3 Tawas City	WQLB	LIC ZCN MI	174.0 354.1	72.59 BLH19970616KE	44 24 48.0 83 37 14.0	15.000 129	3.7 362	36.8 Carroll Broadcasting, Inc.	57.9	34.7	
One-step application-Amended 960820											
274C1 Owen Sound	AL8901	AL _ON	98.1 280.1	224.79	44 44 37.0 80 54 16.0	100.000 299	171.9 299	86.0	40.6	80.2	
SPECIAL NEGOTIATED SHORT-SPACED ALLOCATION.											
273B Bay City	WIOG	LIC _CN MI	183.4 3.3	177.01 BLH19850207KK	43 28 24.0 83 50 40.0	86.000 244	97.6 427	80.1 Radio License Holding cbc,	67.9	72.7	
GRANDFATHERED AT 86KW @ 244M HAAT											
271C2 Bad Axe	WLEW-FM	LIC _CN MI	160.0 340.4	138.46 BLH19890117KK	43 53 28.0 83 07 26.0	50.000 150	6.3 350	54.4 Thumb Broadcasting, Inc.	120.9	82.9	
272D Petoskey	W272CR	LIC _C MI	277.4 96.4	109.17 BLFT20120524AHU	45 10 49.0 85 05 50.0	0.250 277	1.1 507	21.2 Macdonald Garber Broadcast	96.7	86.9	
276B Manitoulin Island	AL3317	AL _ON	54.4 235.7	161.81	45 53 43.0 82 01 02.0	50.000 150	8.5 150	65.0	141.0	91.2	
SPECIAL NEGOTIATED SHORT-SPACED ALLOCATION. 10/27/2014: Change in location proposed in 9/29/2014 letter.											
10/27/2014: Change in location accepted by IB in 10/27/2014 letter.											
276B Manitoulin Island	R16559	VAC _ON	53.7 235.0	169.99	45 57 07.0 81 56 42.0	50.000 150	8.5 150	65.0	149.2	99.4	
10/27/2014: Proposed in 9/29/2014 letter. 10/27/2014: Accepted by IB in 10/27/2014 letter.											
276C3 Gladwin	WGDN-FM	LIC _CX MI	208.5 27.9	139.82 BMLH20120515AAB	43 57 17.0 84 32 59.0	11.500 148	3.8 398	38.0 Apple Broadcasting Company	125.1	100.8	
271D Mackinaw City	W271AG	LIC _C MI	314.6 133.9	112.86 BLFT20031125ACX	45 46 17.0 84 45 04.0	0.019 89	0.3 284	5.4 Gospel Opportunities, Inc.	101.3	106.3	
273A Elliot Lake	R12372	VAC _ON	29.6 210.4	170.06	46 23 15.0 82 37 17.0	6.000 100	43.7 100	38.0	114.2	106.5	
3/5/2008: Proposed by Industry Canada in 1/24/2008 letter. 3/6/2008: Accepted on channel 273A by IB in 3/6/08 letter, not specially negotiated.											
273A Elliot Lake	AL3479	AL _ON	29.6 210.4	170.34	46 23 21.0 82 37 06.0	6.000 100	43.7 100	38.0	114.5	106.8	
3/5/2008: Proposed change in location by Industry Canada in 1/24/2008 letter. 3/6/2008: Change to different location accepted by IB in 3/6/08 letter.											
273C1 Owen Sound	R55764	_ON	98.1 280.1	224.79	44 44 37.0 80 54 16.0	100.000 299	105.0 299	86.0	107.5	112.7	
3/23/2001: approved 3/16/01											
220A Mount Forest	WSMO	LIC ZEX MI	193.4 13.1	117.23 BLED20130909ACL	44 02 11.0 84 03 17.5	6.000 100	132.6 323	68.3 Smile Fm	9.5R	107.7M	
221A Houghton Lake	WTWS	LIC NCX MI	223.7 43.0	118.26 BLH20080919AFJ	44 17 21.0 84 44 32.0	0.920 228	132.6 577	68.3 Black Diamond Broadcast Gr	9.5R	108.8M	

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
 Contour distances are on direct line to and from reference station. Reference zone= East Zone, Co to 3rd adjacent.  
 All separation margins (if shown) include rounding. Call signs with strikeout need not be protected.  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
 "\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.  
 < = Contour Overlap

Green Text denotes the CH274D.P (formerly W273CC) - Alpena, MI facility to be modified by this Form 349 Filing. This facility need not be protected.