

SECTION III - Page 2

9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator <i>three guyed, uniform, cross-section, steel towers of unequal height mounted on base piers and insulators</i>	Overall height in meters of radiator above base insulator, or above base, if grounded. <i>T1: 277.6 m T2: 131.5 m T3: 95.0 m</i>	Overall height in meters above ground (without obstruction lighting) <i>T1: 282.4 m T2: 134.0 m T3: 96.2 m</i>	Overall height in meters above ground (include obstruction lighting) <i>T1: 283.0 m T2: 134.6 m T3: 97.0 m</i>	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Exhibit No.</div>
--	--	--	--	--

Excitation Series Shunt *ASR T1 = 1035330 ASR T3 = 1035332*
ASR T2 = 1035331

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude	<i>42</i> °	<i>54</i> '	<i>47</i> "	West Longitude	<i>97</i> °	<i>18</i> '	<i>58</i> "
----------------	-------------	-------------	-------------	----------------	-------------	-------------	-------------

If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

Exhibit No.
See Attached

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system.

Exhibit No.
unchanged

10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

No changes to the AM radiating tower or AM array have been implemented other than the addition of the FM translator antenna as authorized under K260BO Construction Permit BPFT-20090925AAN. Antenna Monitor readings remain within 3 degrees phase & 5 percent field from license BZ-960726AD values as noted on the Form 302-AM. In addition, the field Monitor Points remain within tolerances of BZ-960726AD values as well: 94.5°T at 48.0 mV/m (max 66.5 mV/m) 119.5°T at 64.0 mV/m (max 69.9 mV/m) 179.5°T at 17.0 mV/m (max 26.4 mV/m) 263.5°T at 106.0mV/m (max 123.3 mV/m)

11. Give reasons for the change in antenna or common point resistance.

This Form 302-AM is being filed to reflect a new daytime antenna resistance measurement and nighttime common point measurement taken after the recent tower modifications associated with and as a §73.1692(a) condition of licensing for FM translator K260BO – Yankton, SD Construction Permit BPFT-20090925AAN.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type) <i>Justin W. Asher</i>	Signature (check appropriate box below) <i>Justin W. Asher</i>
Address (include ZIP Code) <i>P.O. Box 220</i> <i>385 Airport Drive</i> <i>Coldwater, MI 49036</i>	Date <i>October 17, 2011</i>
	Telephone No. (Include Area Code) <i>1(517)278-7339</i>

Technical Director

Registered Professional Engineer

Chief Operator

Technical Consultant

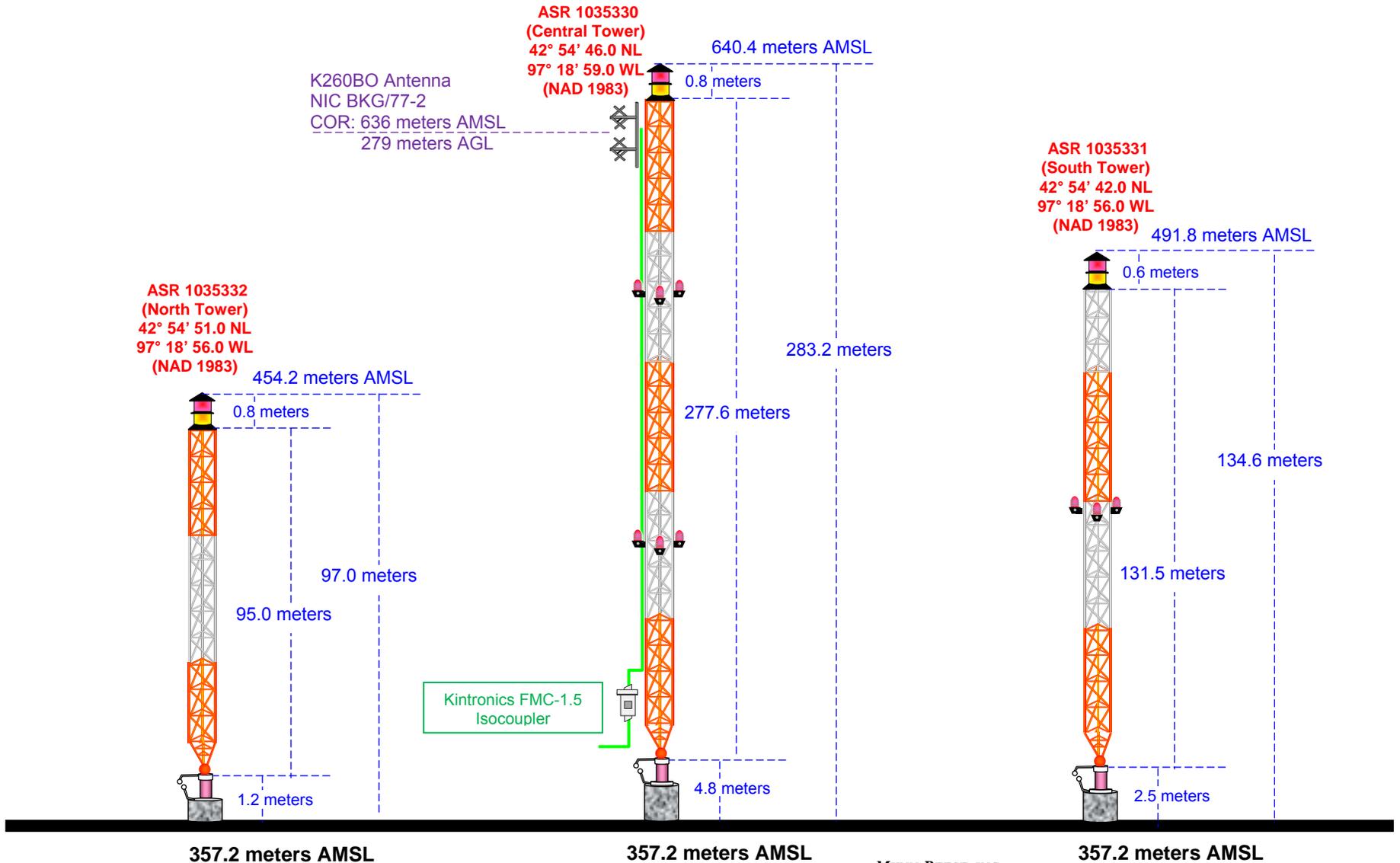
Other (specify)

WNAX(AM) – Yankton, SD

Vertical Plan of Antenna System

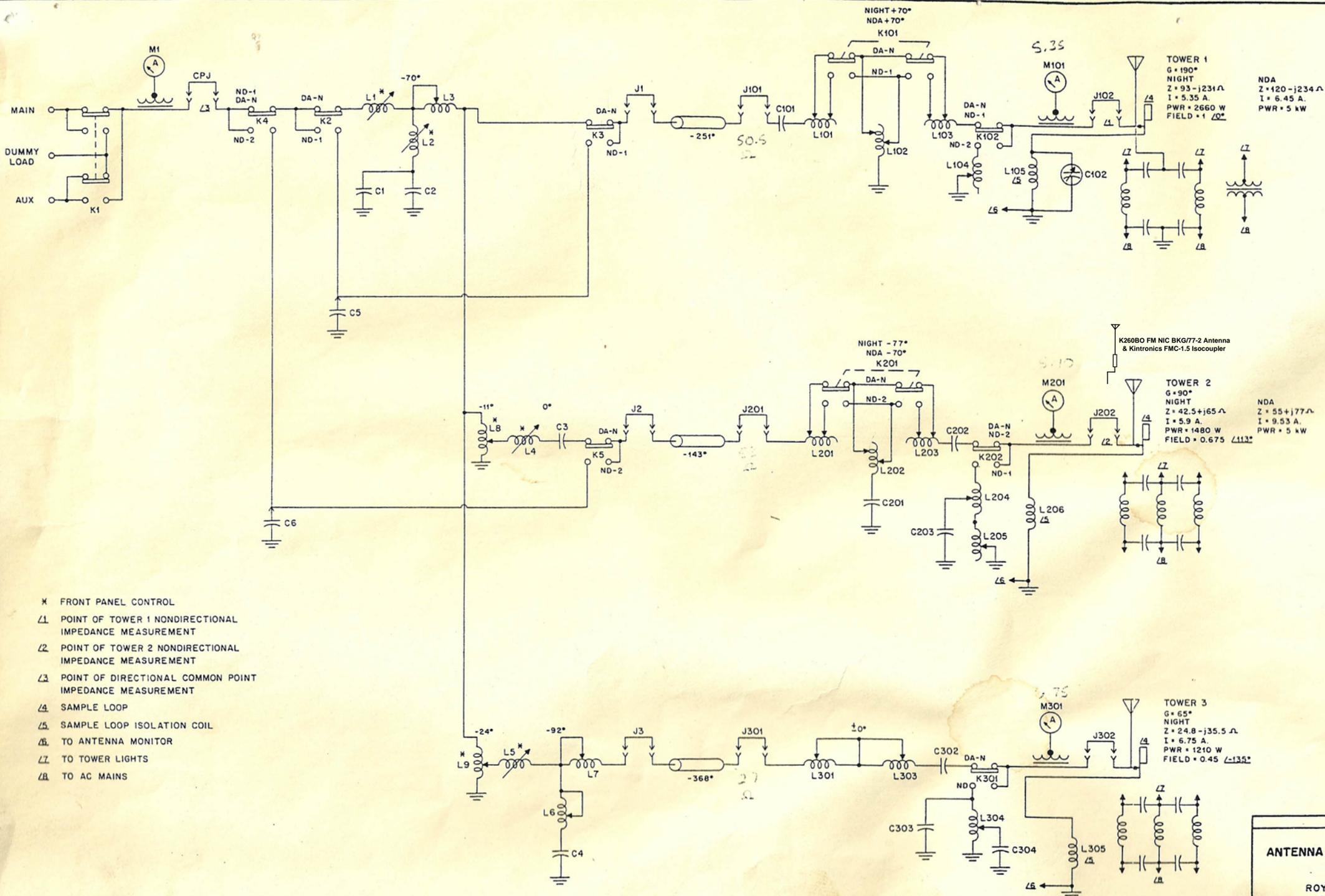
The site is located 0.45 km north of the “JL” intersection of 309th Street and 44th Avenue, the city of Yankton, Yankton County, South Dakota.

Site Location (NAD 27)
 NL: 42° 54' 47"
 WL: 97° 18' 58"
 (42-54-47.0 NL / 97-18-59.2 WL NAD 1983)



Guy Wires Not Shown
 Drawing is not to Scale

MUNN-REESE, INC.
 Broadcast Engineering Consultants
 Coldwater, MI 49036
 1(517)278-7339



- X FRONT PANEL CONTROL
- Δ1 POINT OF TOWER 1 NONDIRECTIONAL IMPEDANCE MEASUREMENT
- Δ2 POINT OF TOWER 2 NONDIRECTIONAL IMPEDANCE MEASUREMENT
- Δ3 POINT OF DIRECTIONAL COMMON POINT IMPEDANCE MEASUREMENT
- Δ4 SAMPLE LOOP
- Δ5 SAMPLE LOOP ISOLATION COIL
- Δ6 TO ANTENNA MONITOR
- Δ7 TO TOWER LIGHTS
- Δ8 TO AC MAINS

FIG 1
ANTENNA SYSTEM :
 PREPARED BY
 ROY H. PARK
 OF THE MILITARY
 WNAAC YANKTON
 570 kHz
A. D. RING & ASSOCIATES
 CONSULTING ENGINEERS
 WASHINGTON, D. C.

K260BO FM NIC BKG/77-2 Antenna & Kintronics FMC-1.5 Isocoupler added October 18, 2011