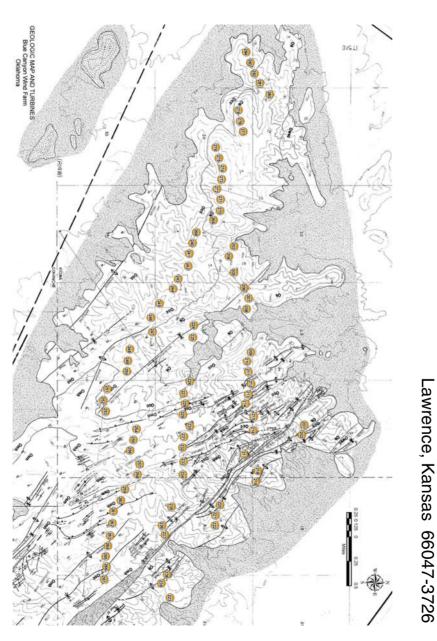
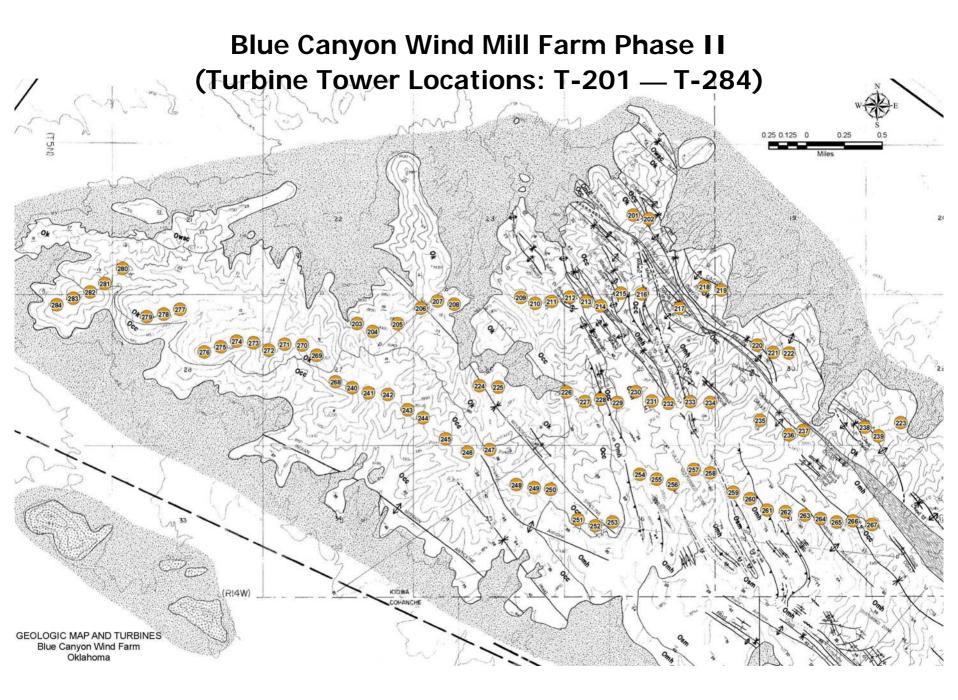
Rick Palm and Chris Kopchynski Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803 Final Report to



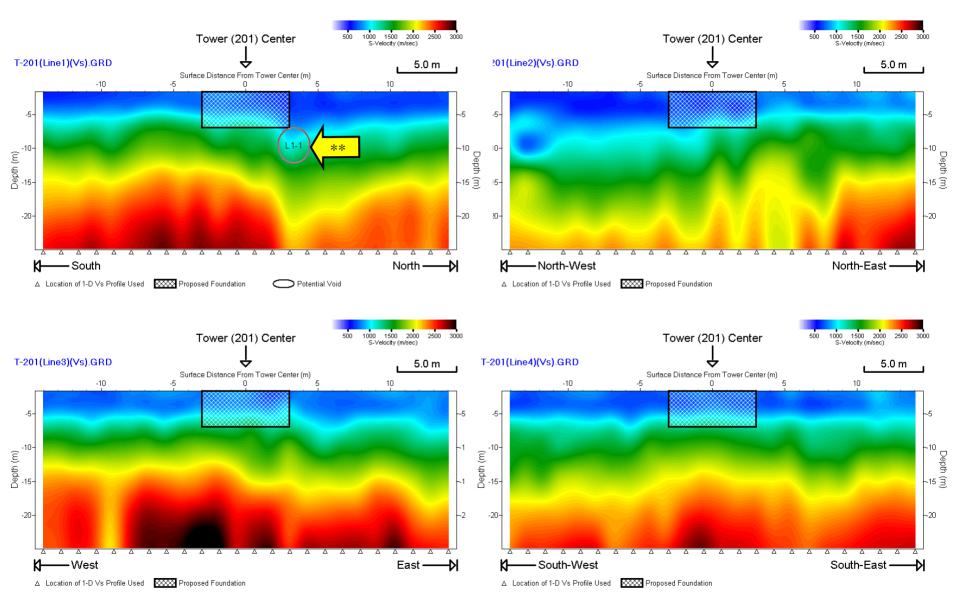
Seismic Characterization of Wind Turbine Sites Near Lawton, Oklahoma, by the MASW Method

APPENDIX I: Maps from 2-D Velocity (Vs) Analysis

Choon B. Park and Richard D. Miller Kansas Geological Survey University of Kansas 1930 Constant Avenue

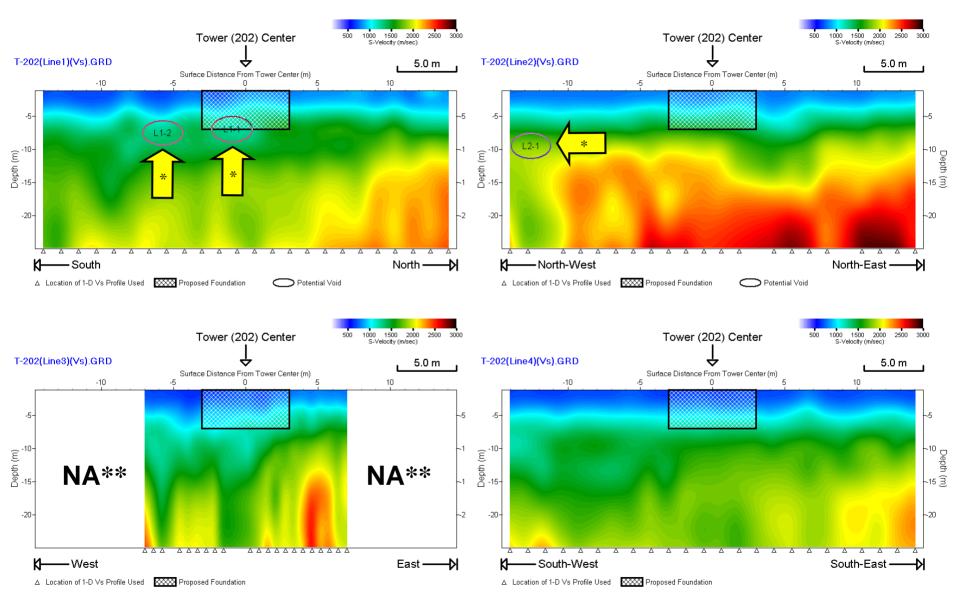


<u>T-201</u>



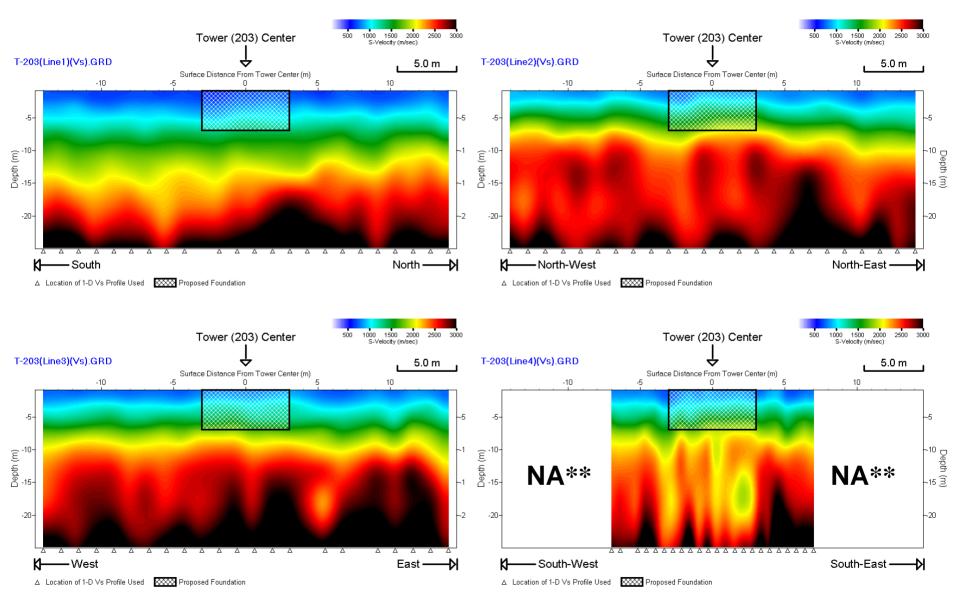
**Potential void (see separate text file for coordinates)

<u>T-202</u>



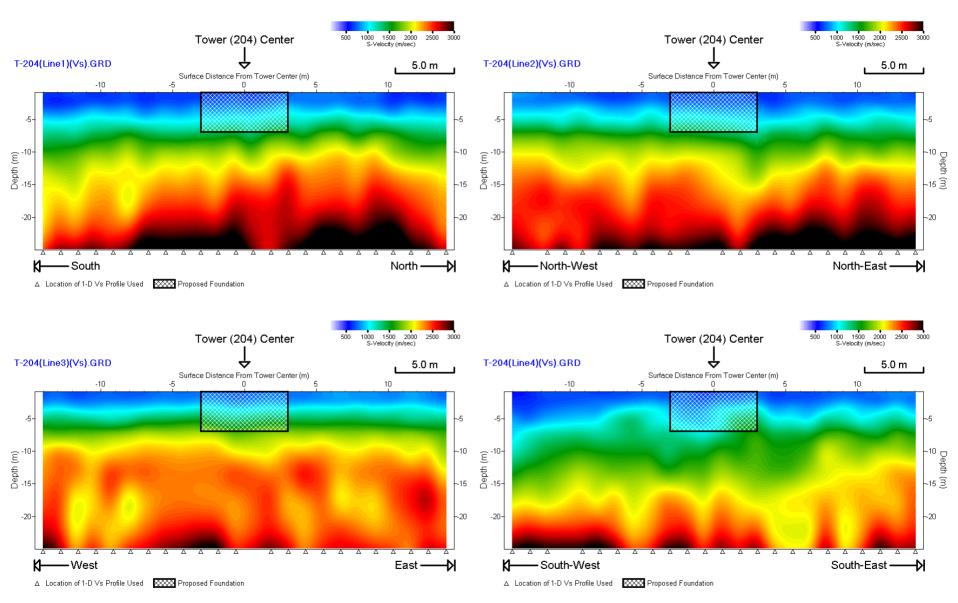
*Potential void (see separate text file for coordinates), **A shorter receiver spacing of 2 ft was used due to terrain condition (steep drop off).

<u>T-203</u>

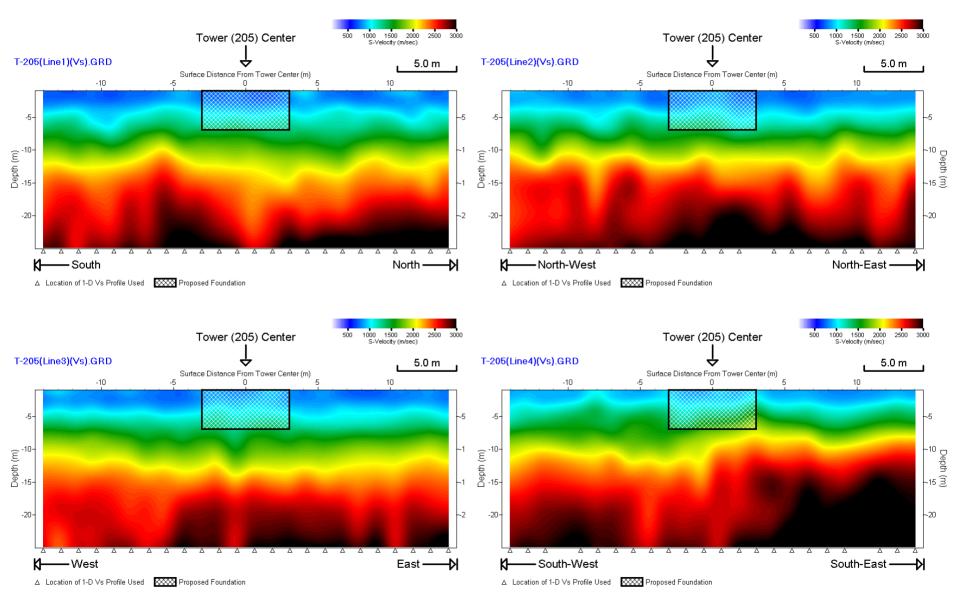


**A shorter receiver spacing of 2 ft was used due to terrain condition (steep drop off).

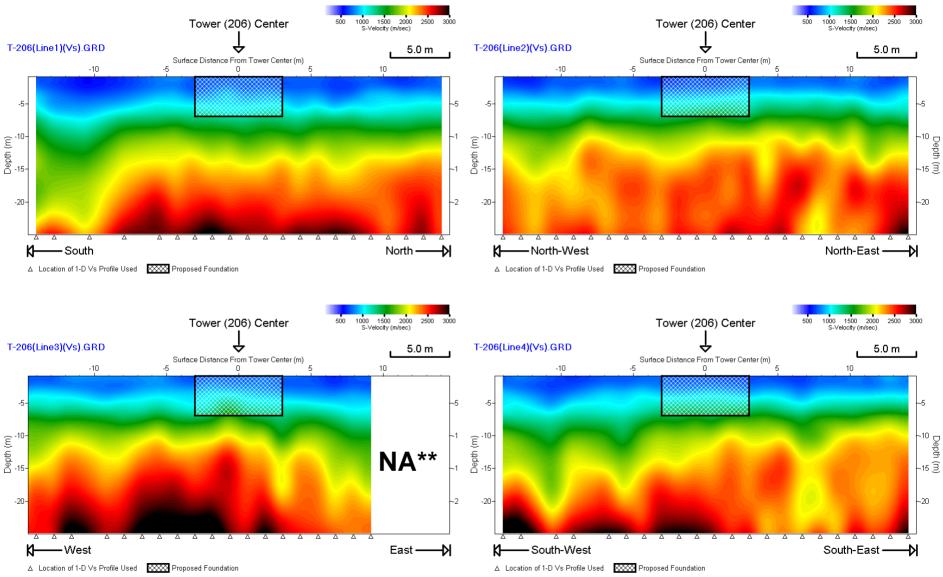
<u>T-204</u>



<u>T-205</u>

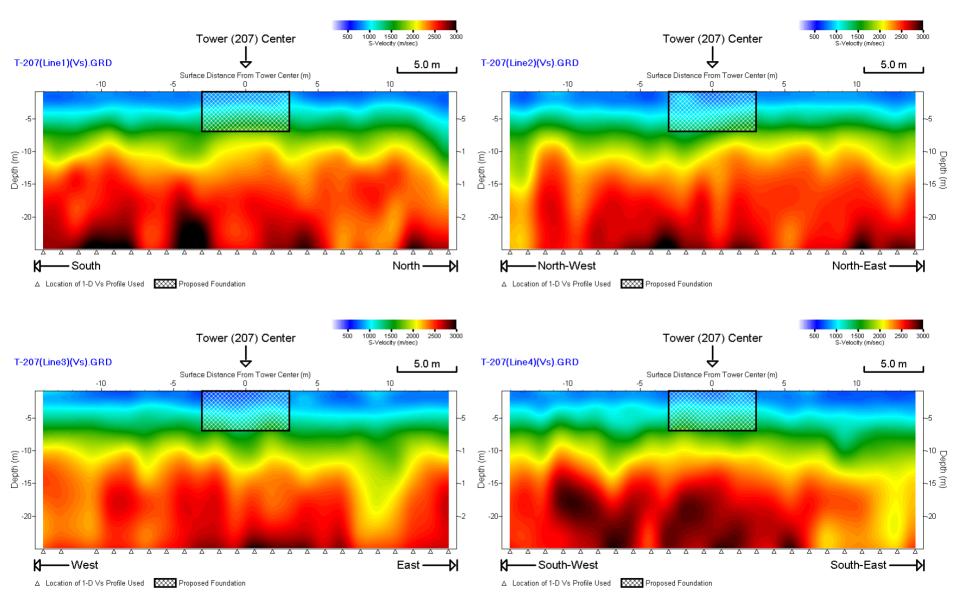


<u>T-206*</u>

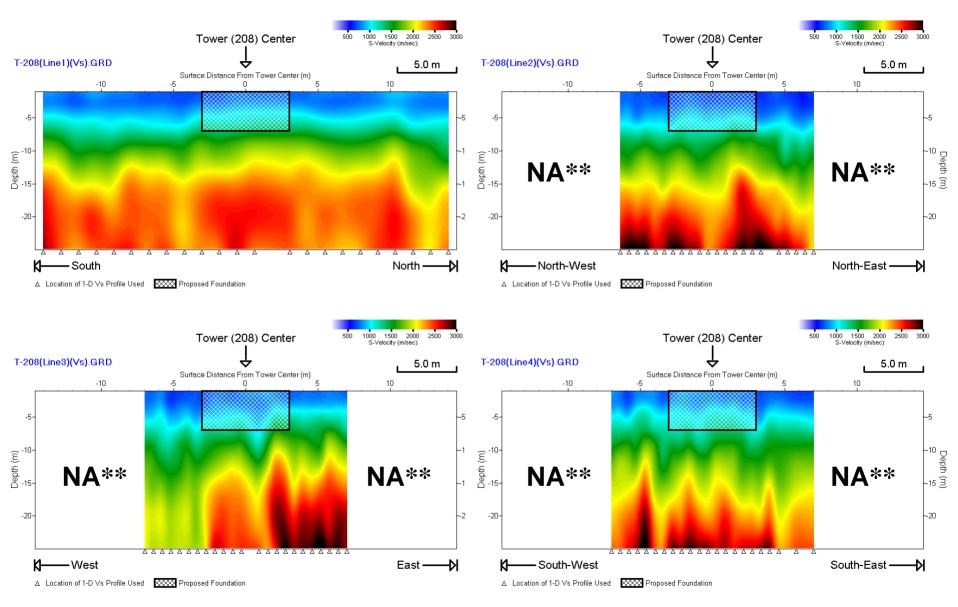


*Line 4 shifted to north by 6 stations (=24ft) from the planned position (12 stations south of tower center) due to terrain condition **Data not acquired due to terrain condition (steep drop off)

<u>T-207</u>

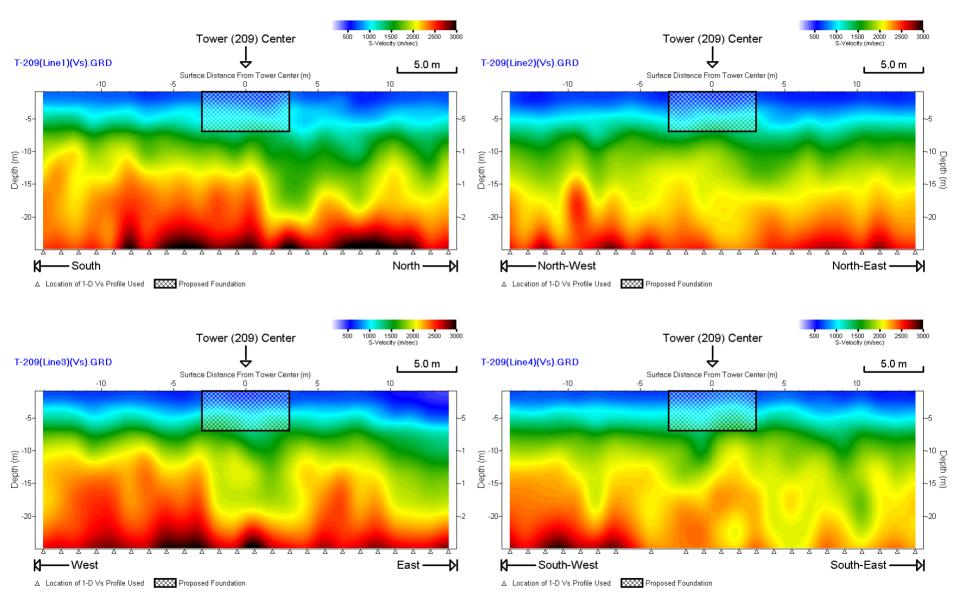


<u>T-208**</u>

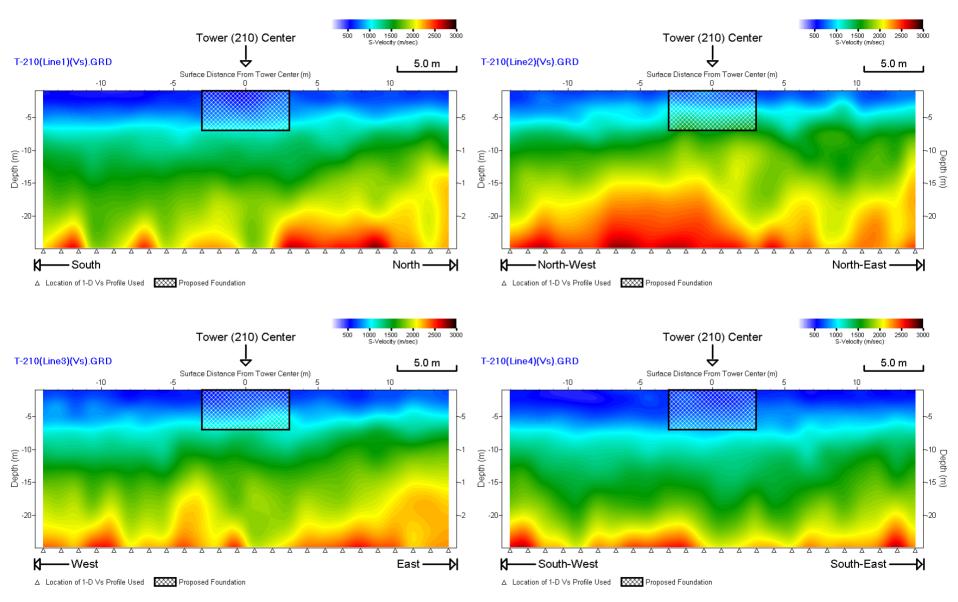


**All East-West lines (2, 3, and 4) used a shorter receiver spacing of 2 ft due to terrain condition (steep drop off).

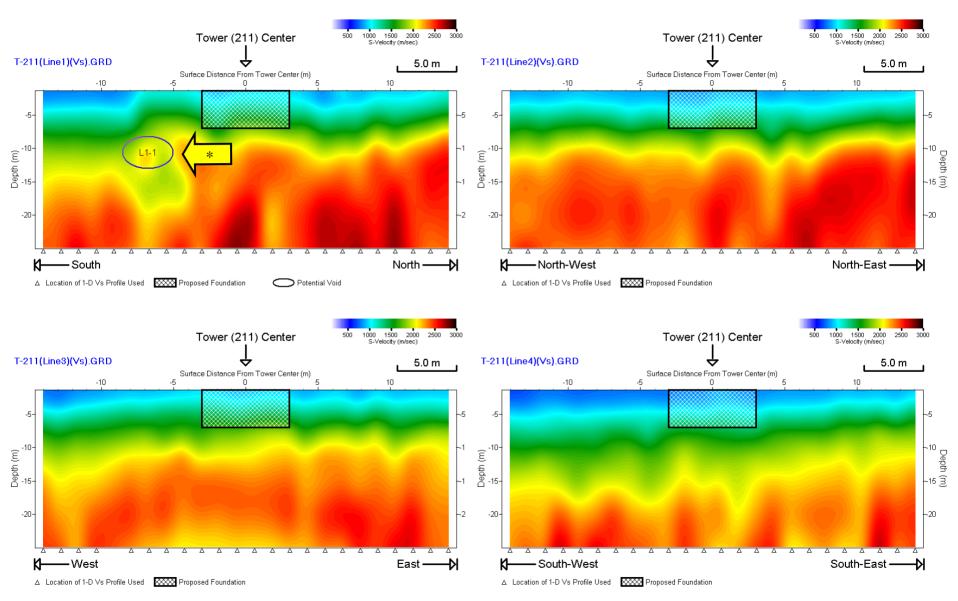
<u>T-209</u>



<u>T-210</u>

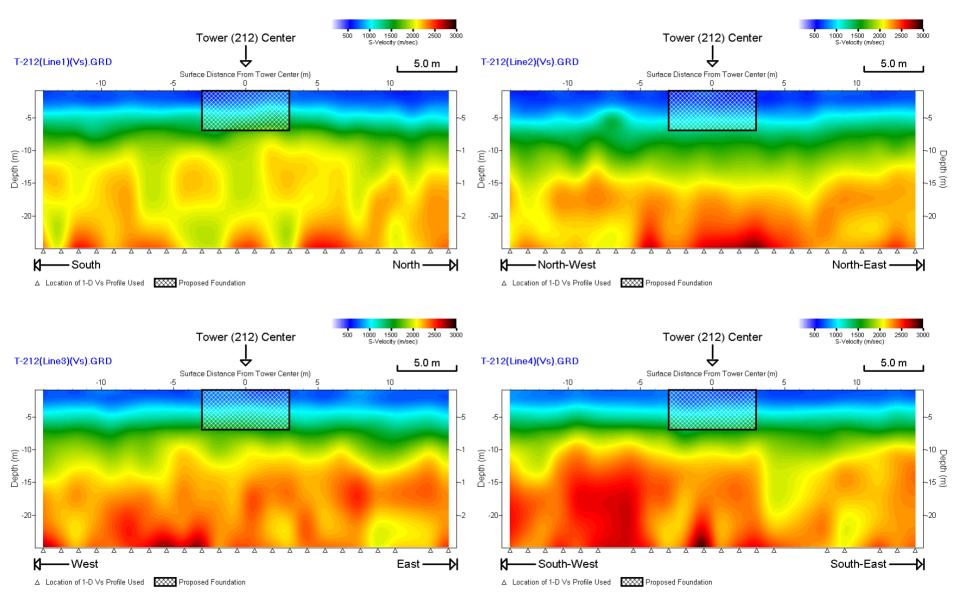


<u>T-211</u>

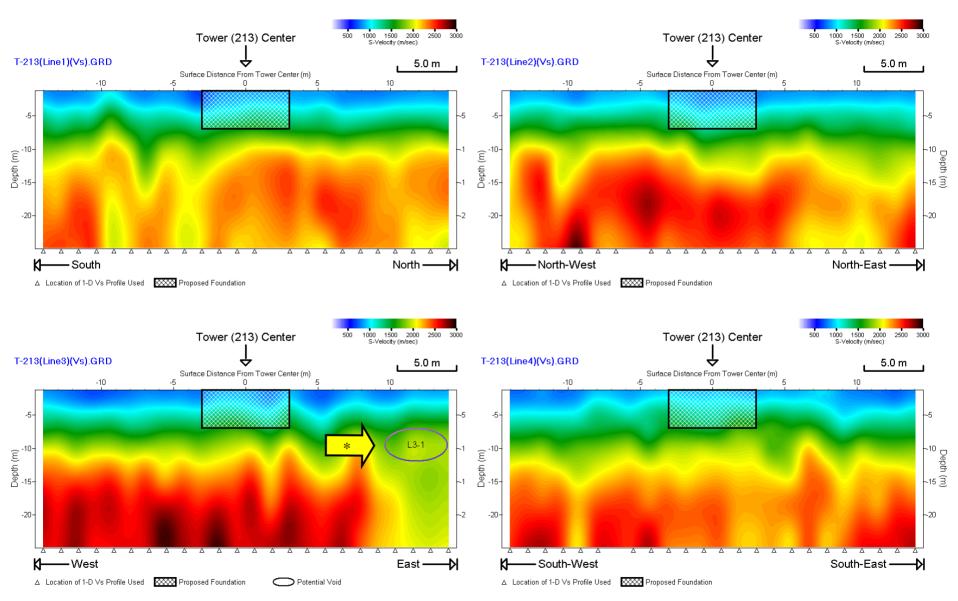


*Potential void (see separate text file for coordinates)

<u>T-212</u>

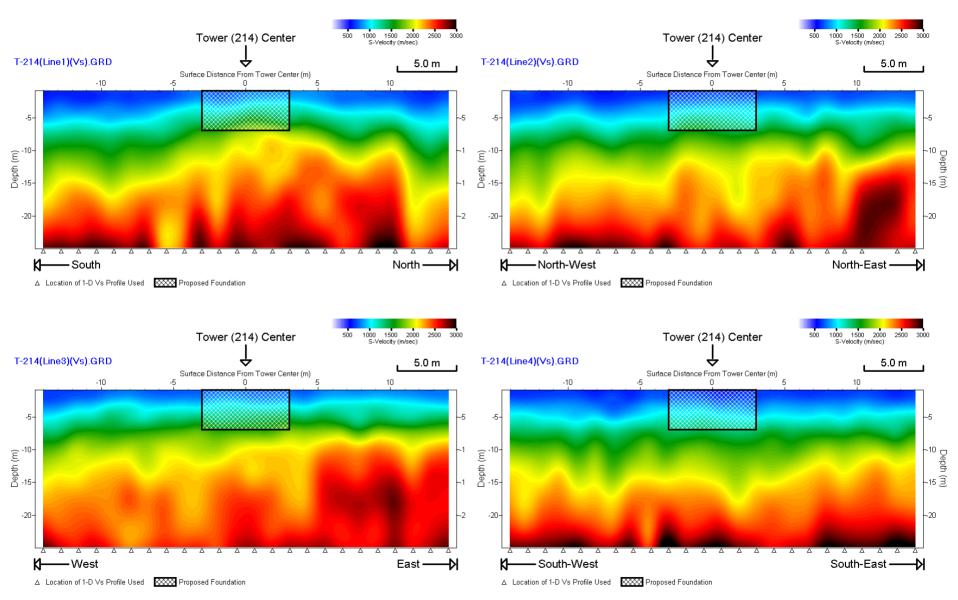


<u>T-213</u>

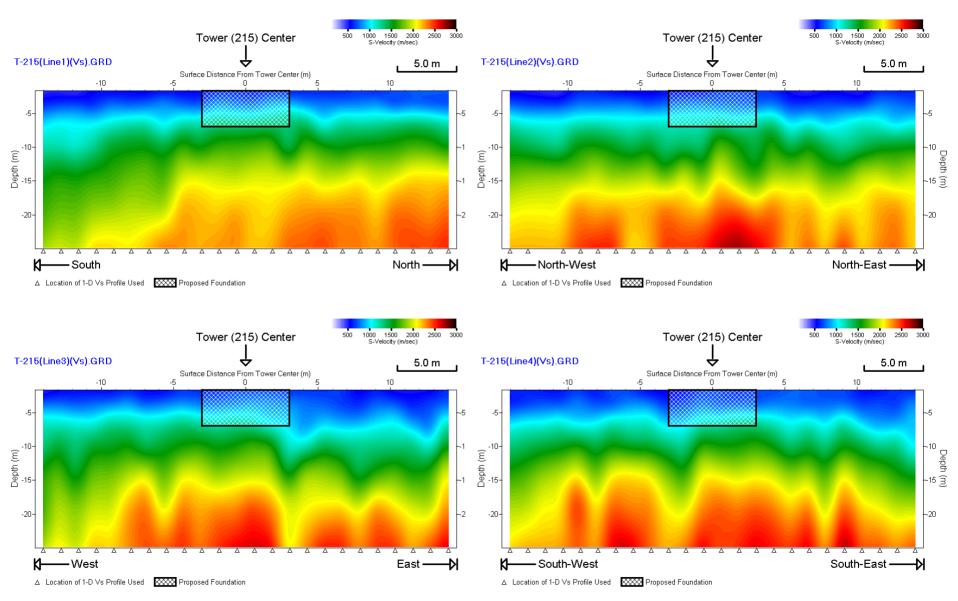


*Potential void (see separate text file for coordinates)

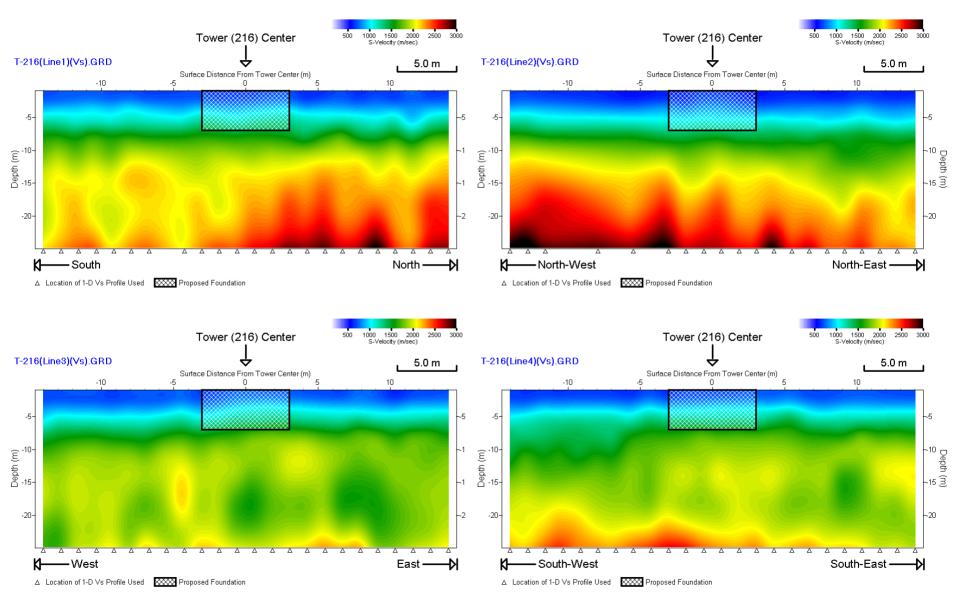
<u>T-214</u>



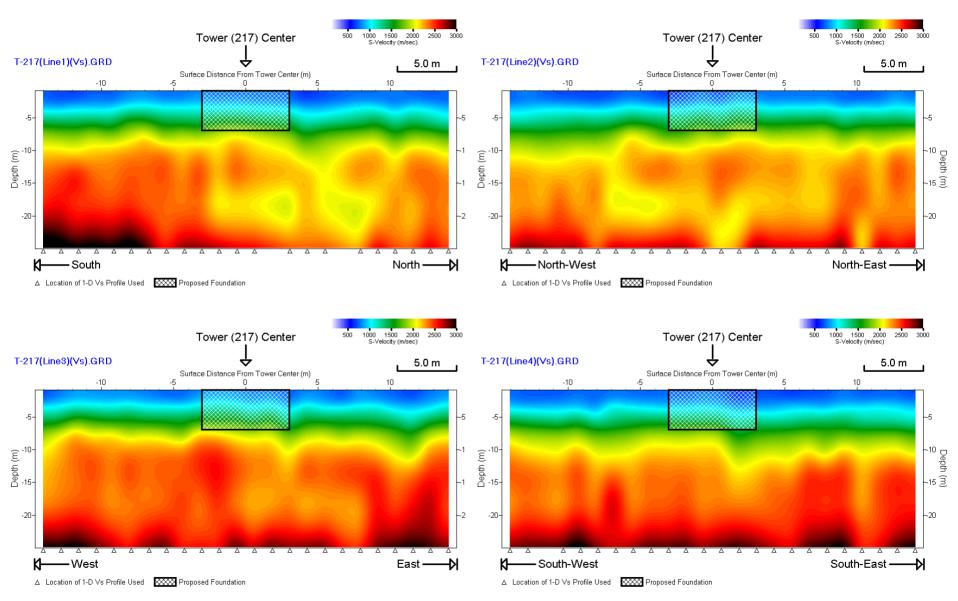
<u>T-215</u>



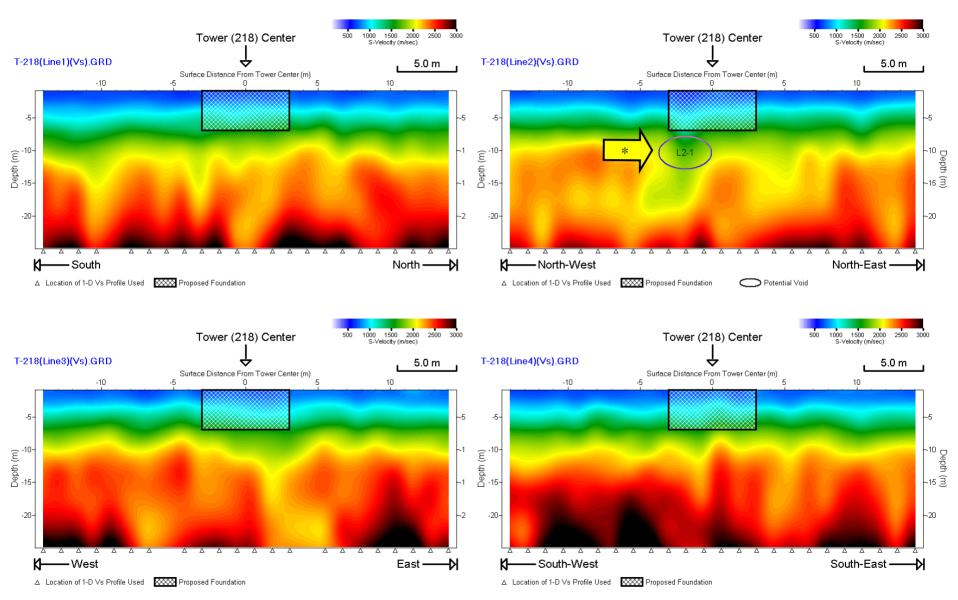
<u>T-216</u>



<u>T-217</u>

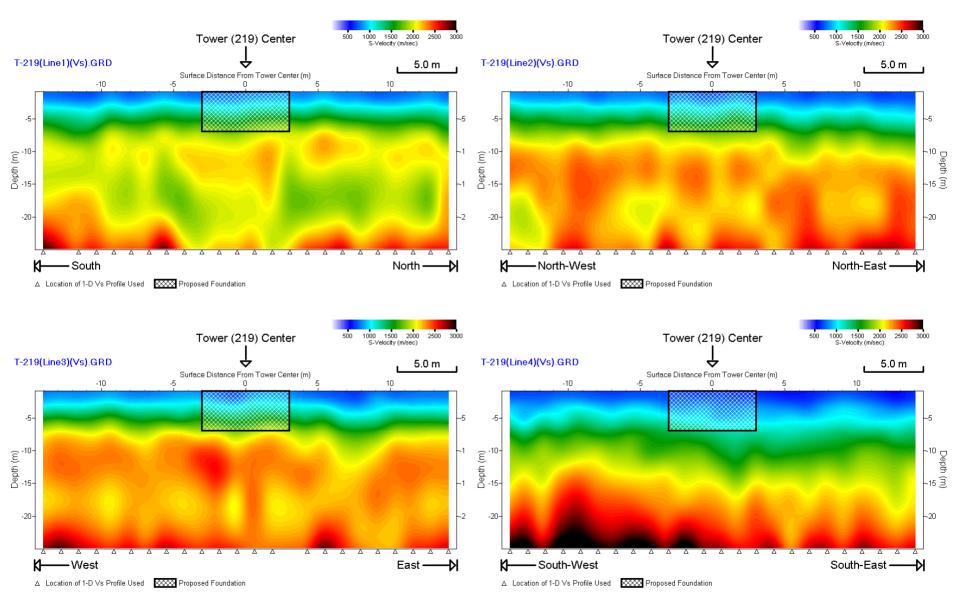


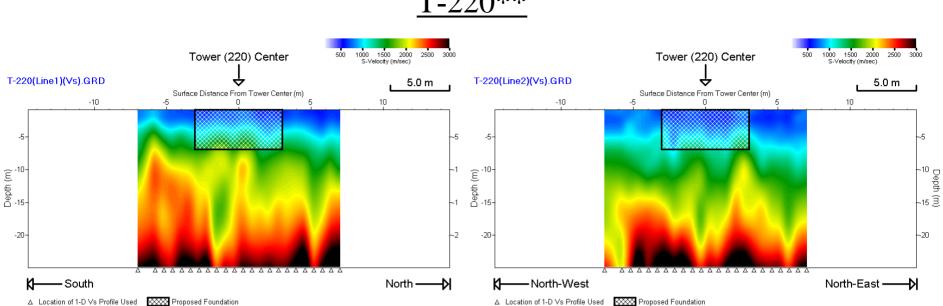
<u>T-218</u>

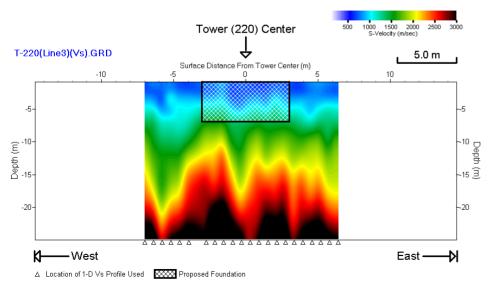


*Potential void (see separate text file for coordinates)

<u>T-219</u>



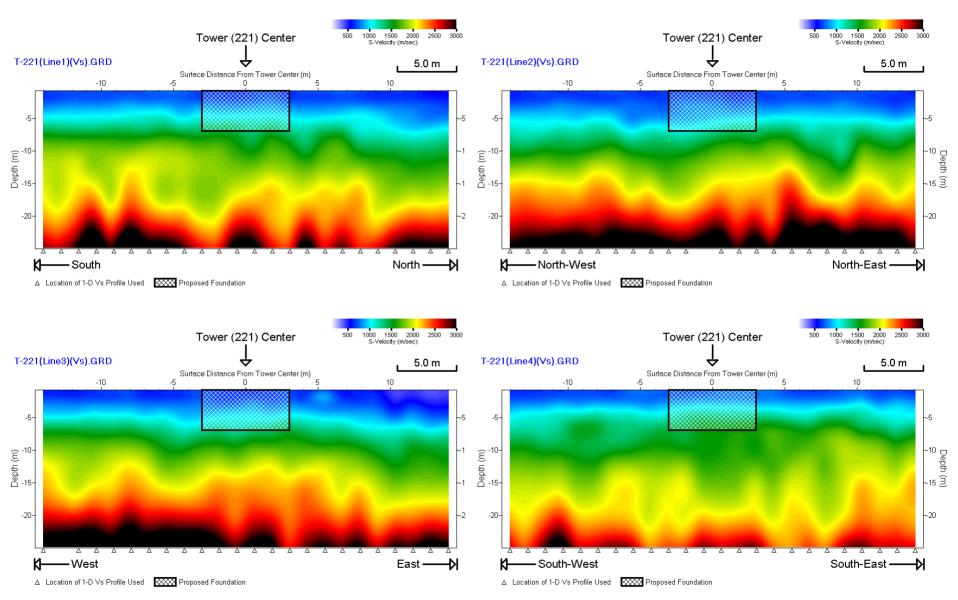


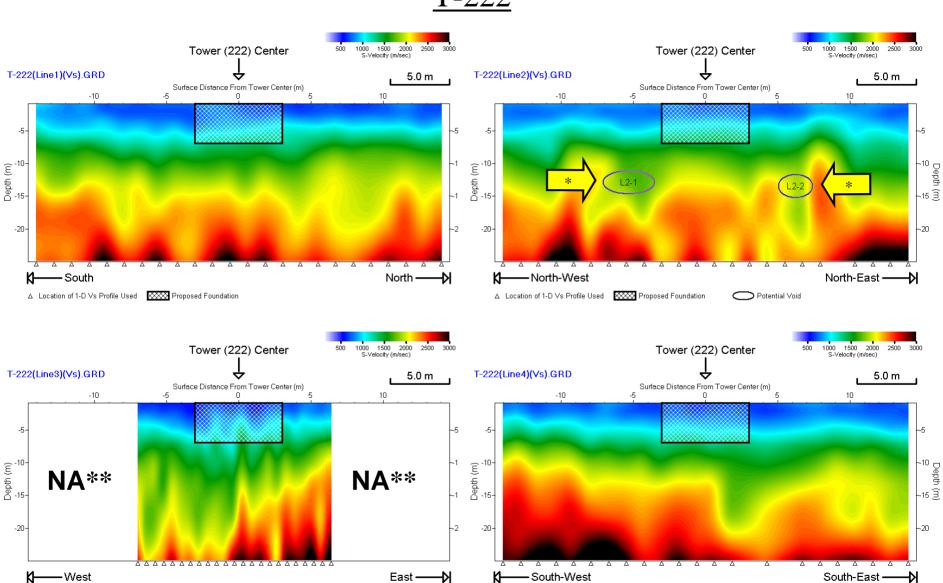


**A shorter receiver spacing of 2 ft was used and Line 4 was not acquired due to terrain condition (steep drop off).

T-220**

<u>T-221</u>



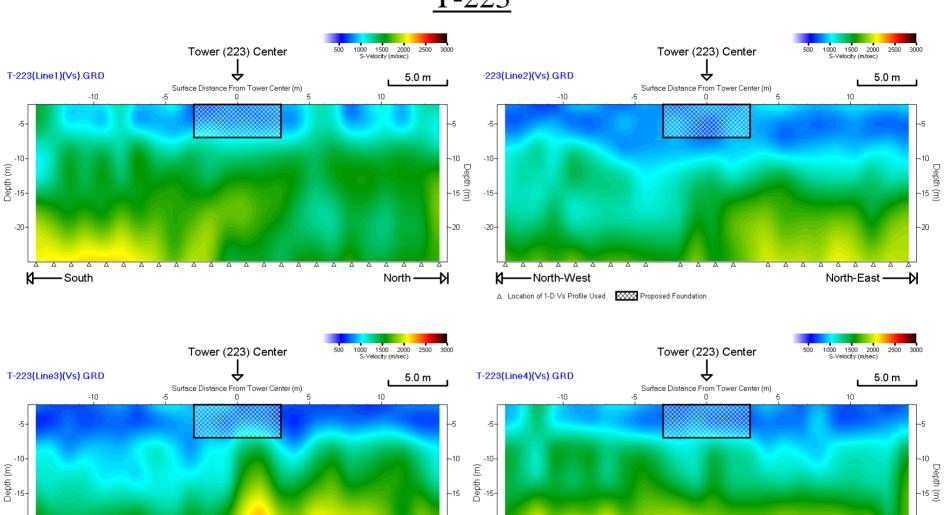


△ Location of 1-D Vs Profile Used KXXX Proposed Foundation

*Potential void (see separate text file for coordinates), **A shorter receiver spacing of 2 ft was used due to terrain condition (steep drop off).

△ Location of 1-D Vs Profile Used 🛛 🗱 Proposed Foundation

<u>T-222</u>



~20

--M

East —

-20-

K-

- South-West

~20

-M

South-East -

-20-

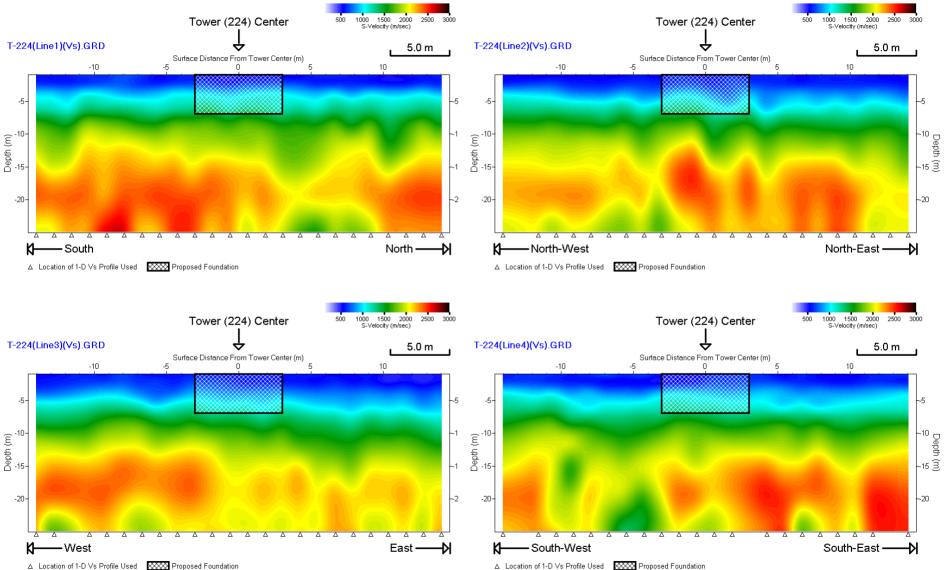
K-

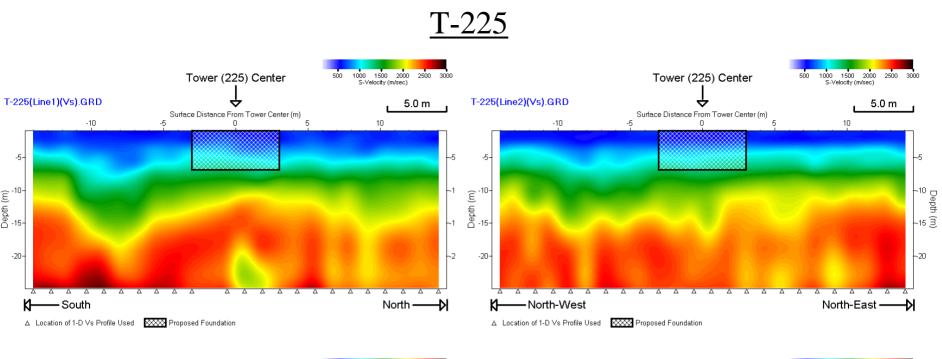
-West

△ Location of 1-D Vs Profile Used WWW Proposed Foundation

<u>T-223</u>

<u>T-224</u>



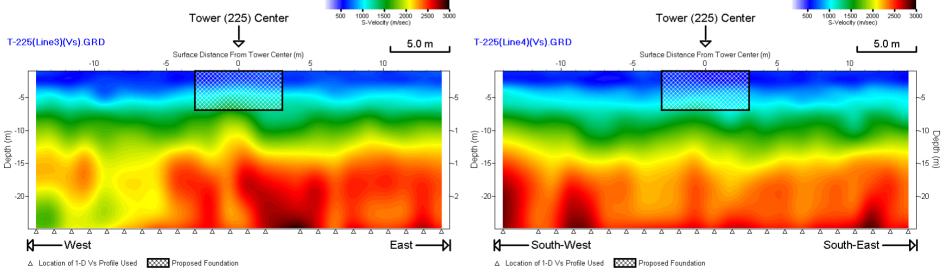


-5

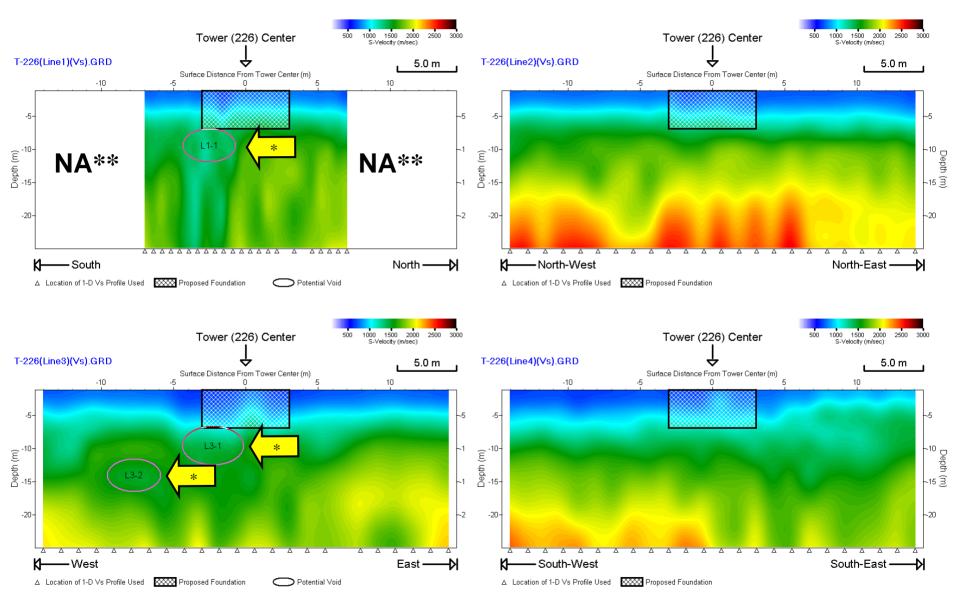
-10-(ju) -15-

-20

ĸ

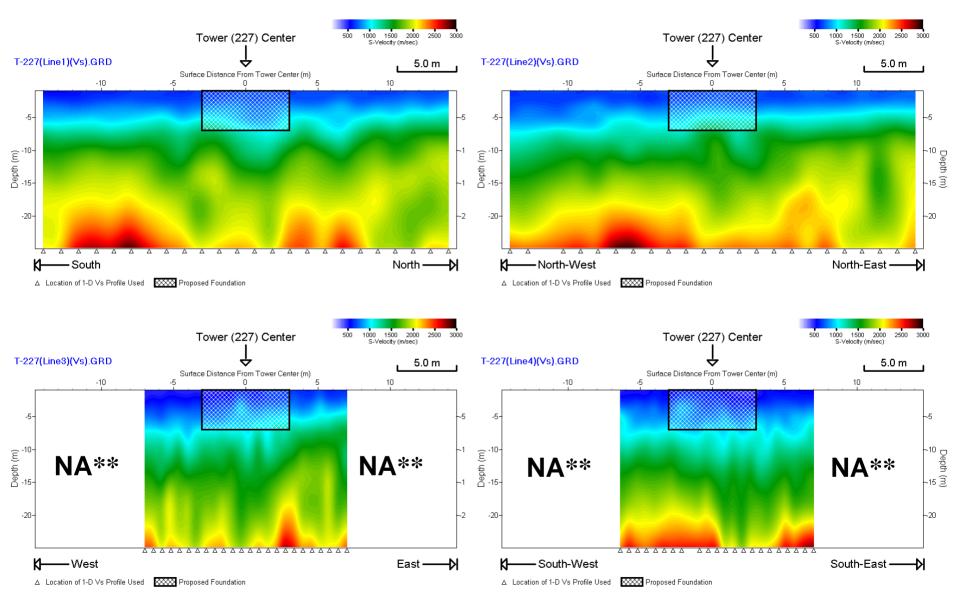


<u>T-226</u>



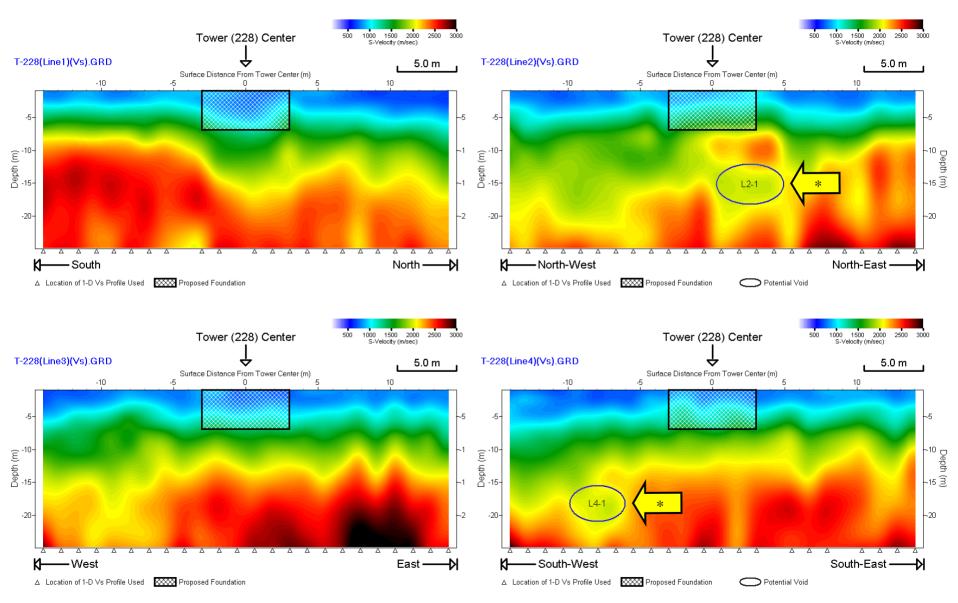
*Potential void (see separate text file for coordinates), **A shorter receiver spacing of 2 ft was used due to terrain condition (steep drop off).

<u>T-227</u>



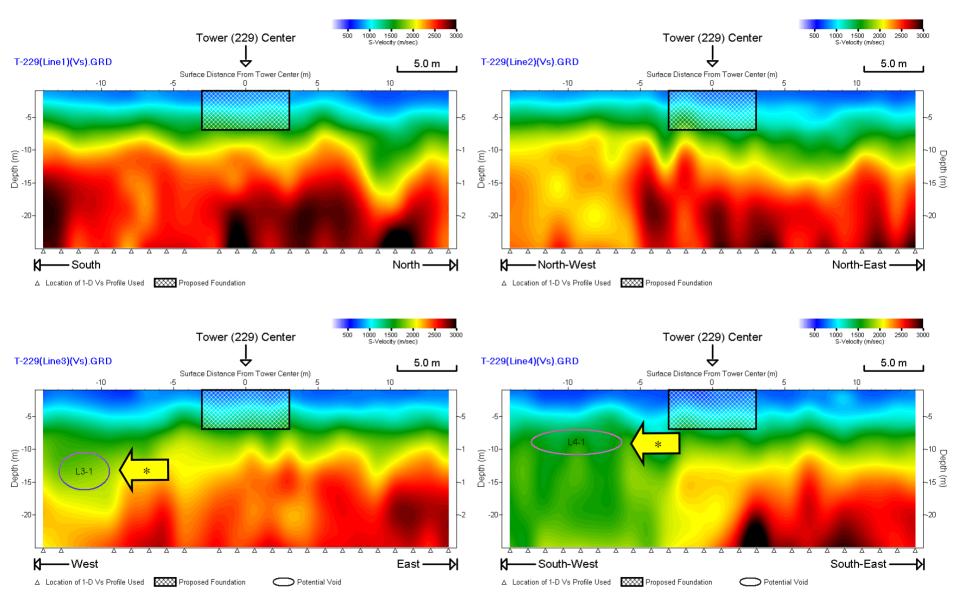
**A shorter receiver spacing of 2 ft was used due to terrain condition (steep drop off).

<u>T-228</u>



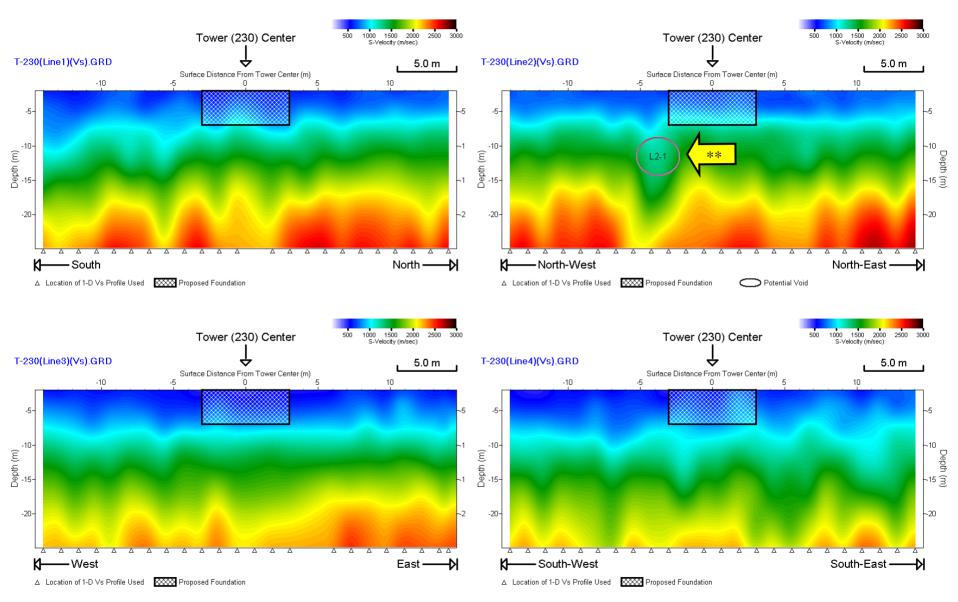
*Potential void (see separate text file for coordinates)

<u>T-229</u>



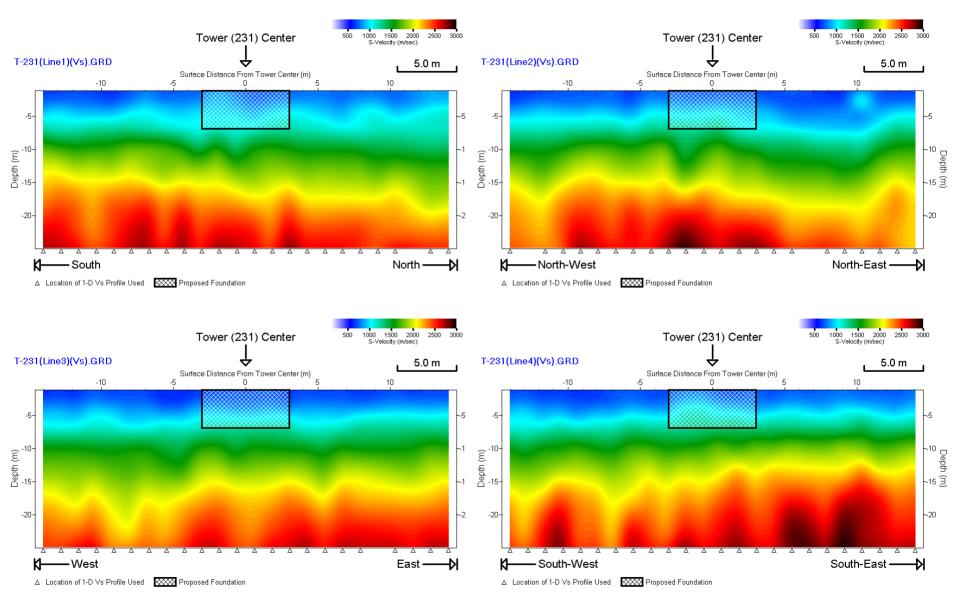
*Potential void (see separate text file for coordinates)

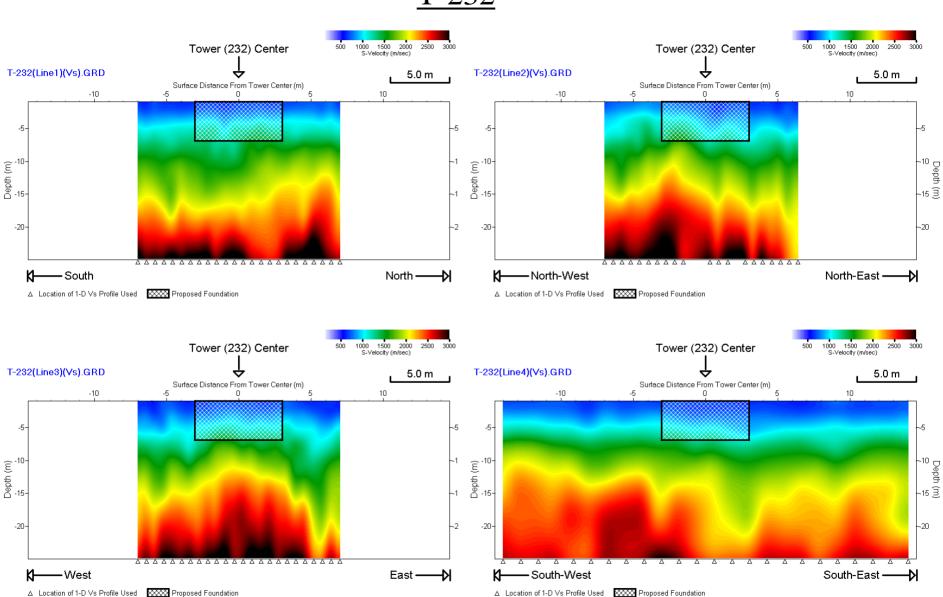
<u>T-230</u>



**Potential void (see separate text file for coordinates)

<u>T-231</u>

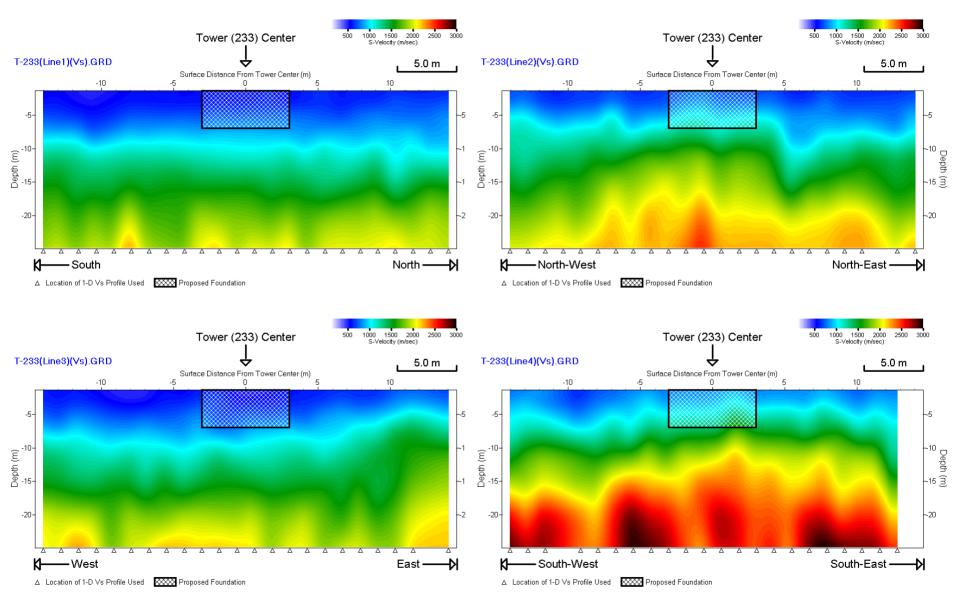




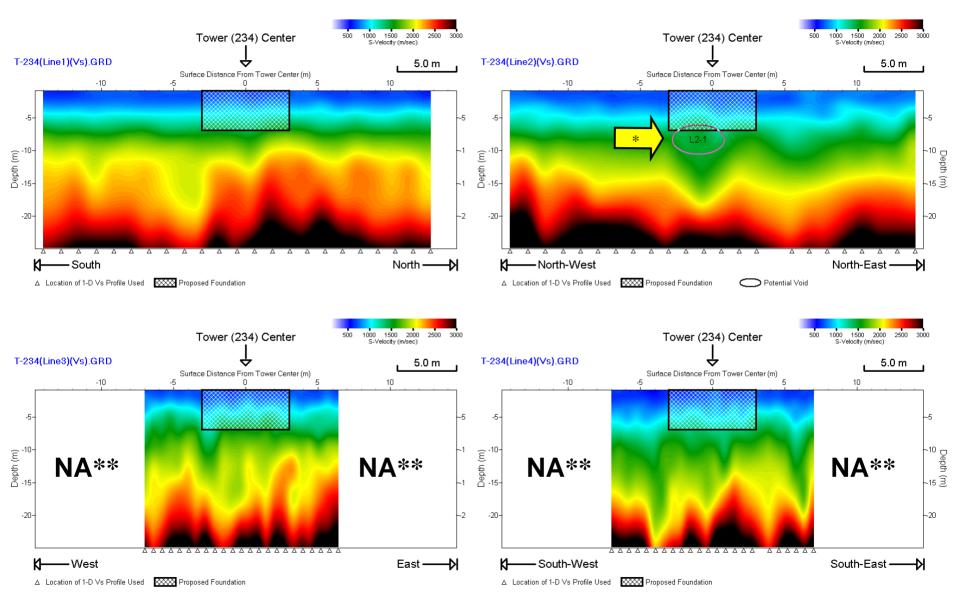
**A shorter receiver spacing of 2 ft was used for lines 1-3 due to terrain condition (steep drop off).

<u>T-232</u>**

<u>T-233</u>

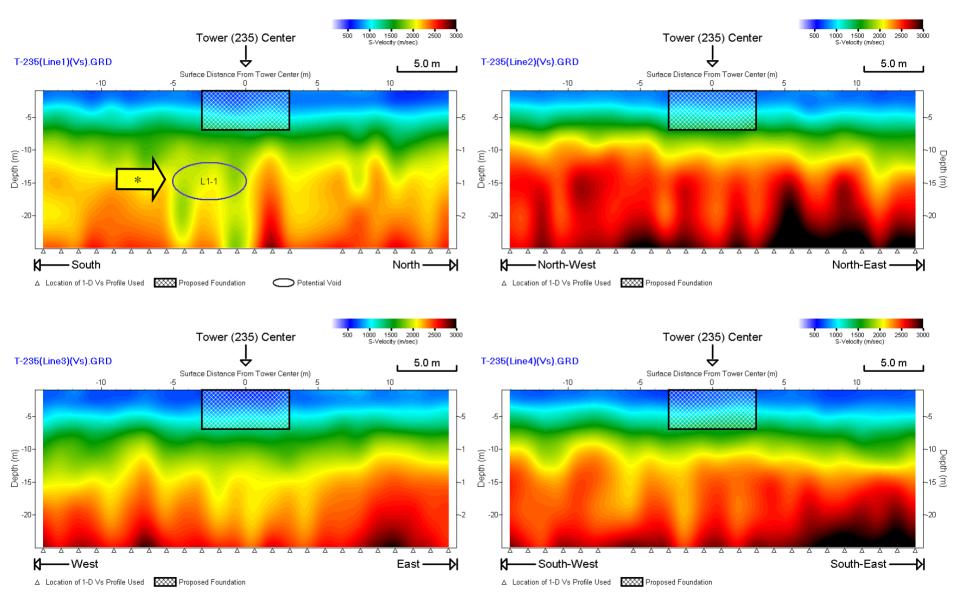


<u>T-234</u>



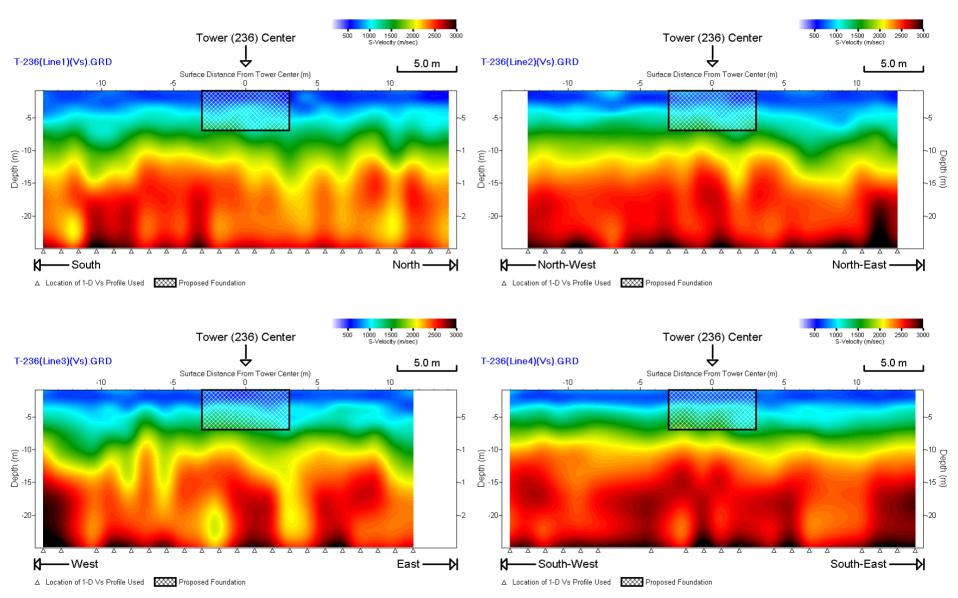
*Potential void (see separate text file for coordinates), **A shorter receiver spacing of 2 ft was used due to terrain condition (steep drop off).

<u>T-235</u>

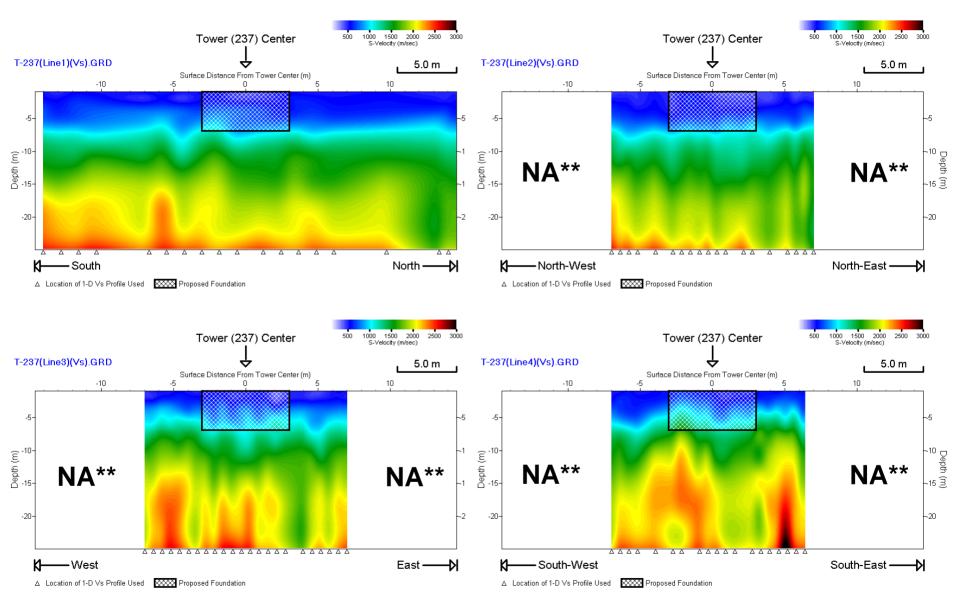


*Potential void (see separate text file for coordinates)

<u>T-236</u>

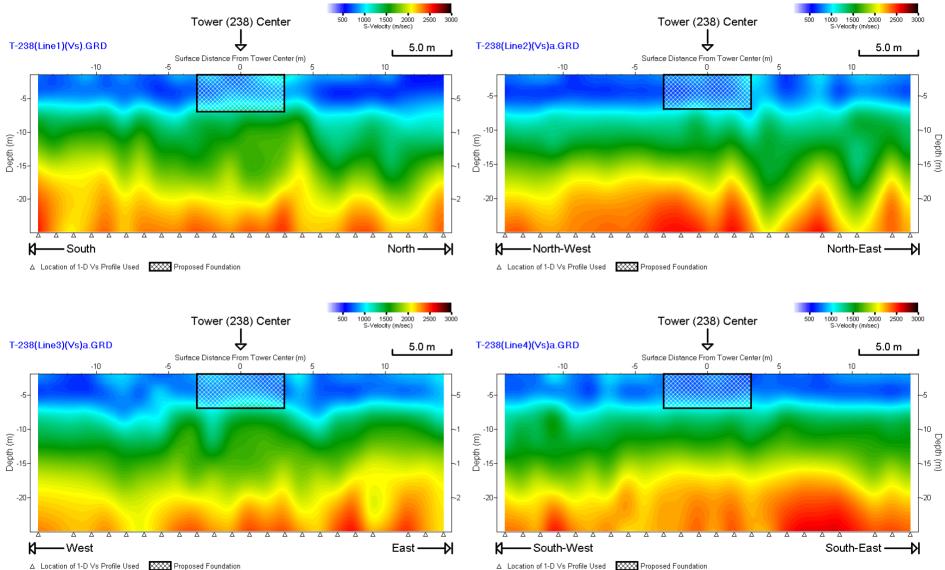


<u>T-237</u>

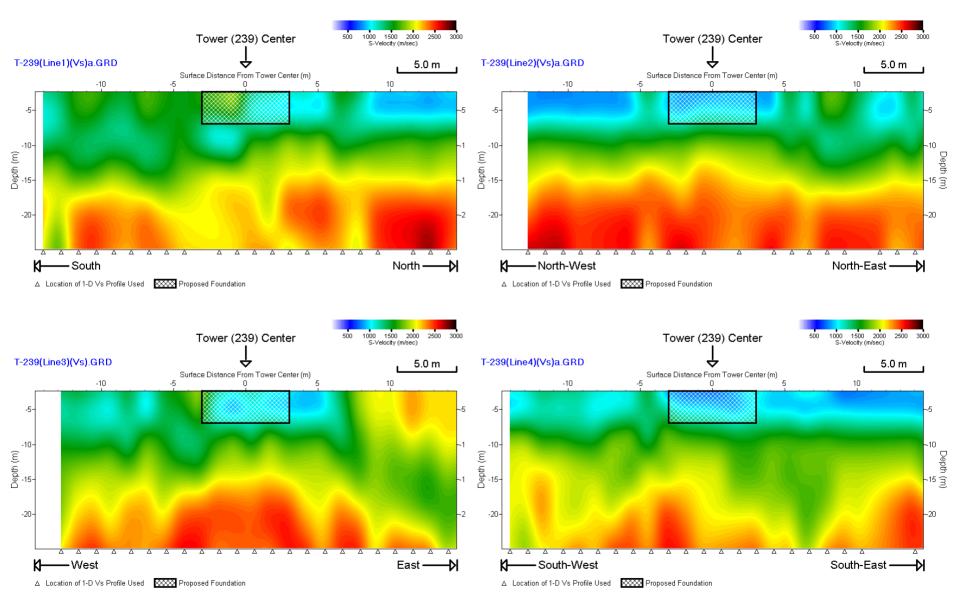


**Data not acquired due to terrain condition (shorter receiver spacing of 2 ft used)

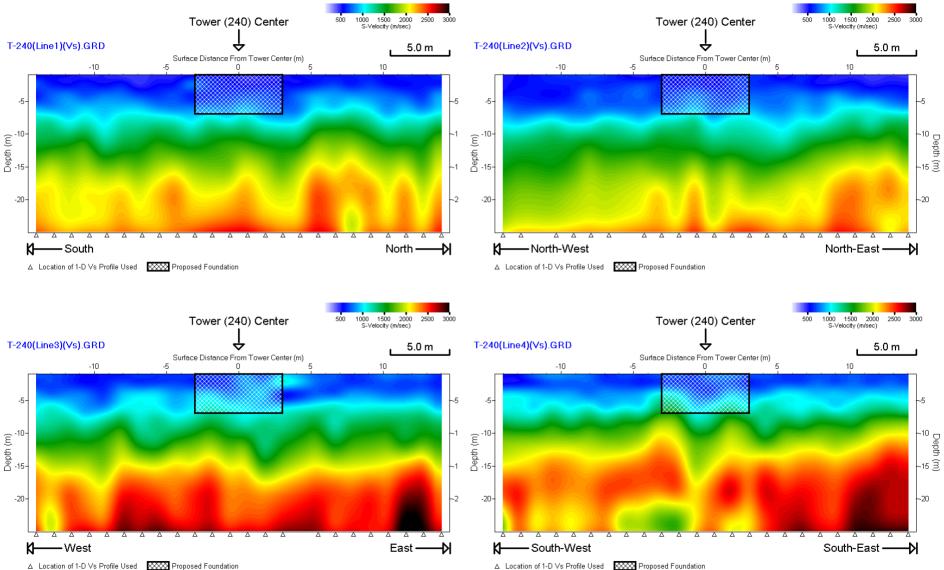
<u>T-238</u>



<u>T-239</u>

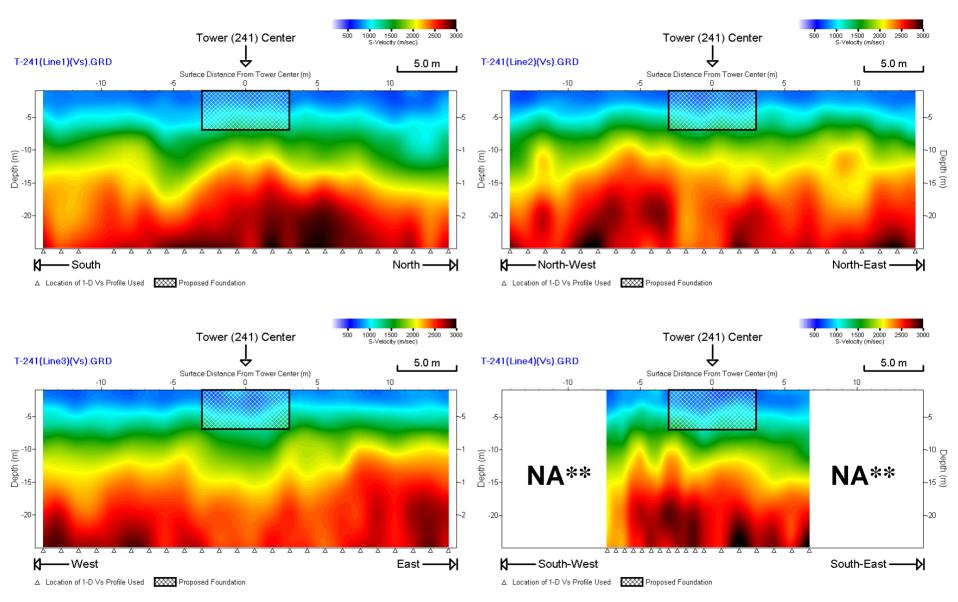


<u>T-240</u>



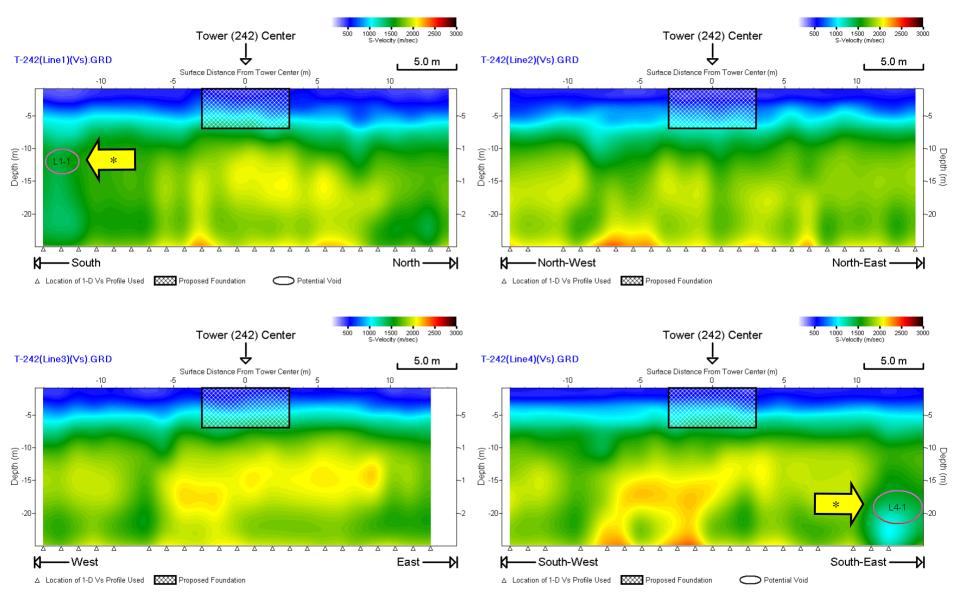
1-D Vs Profile Used 🛛 🗱 Proposed Founda

<u>T-241</u>



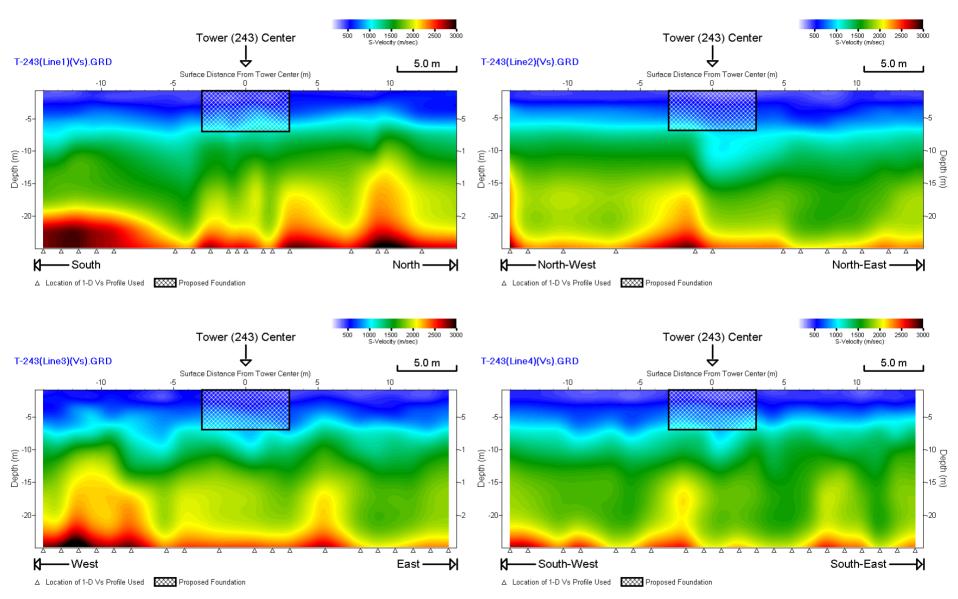
**A shorter receiver spacing of 2 ft was used due to terrain condition (steep drop off).

<u>T-242</u>

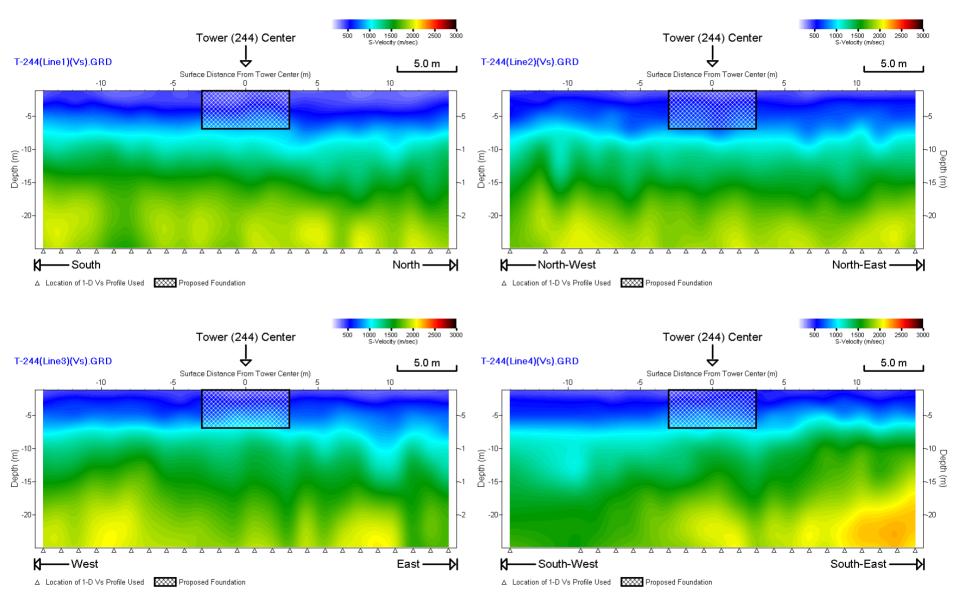


*Potential void (see separate text file for coordinates)

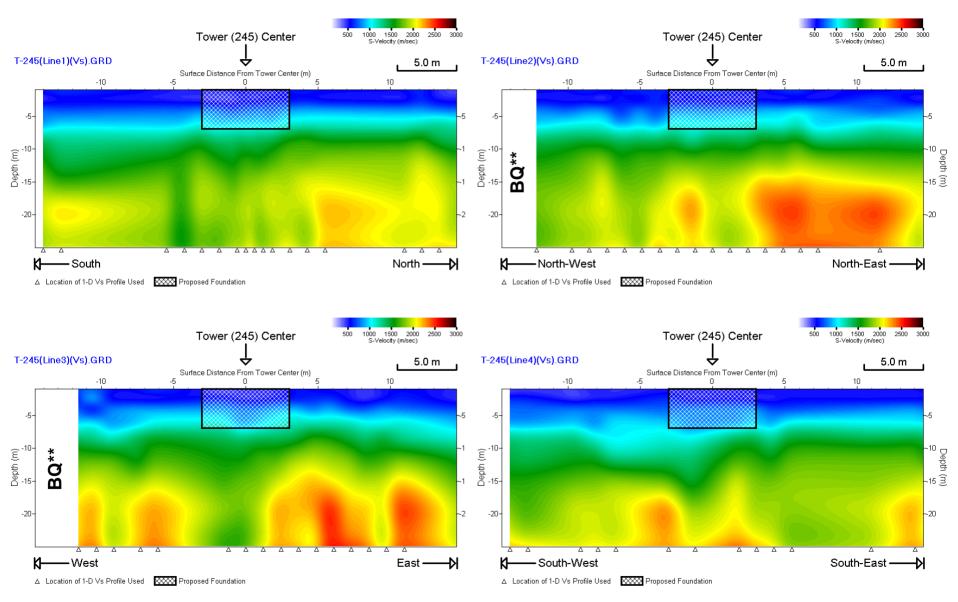
<u>T-243</u>



<u>T-244</u>

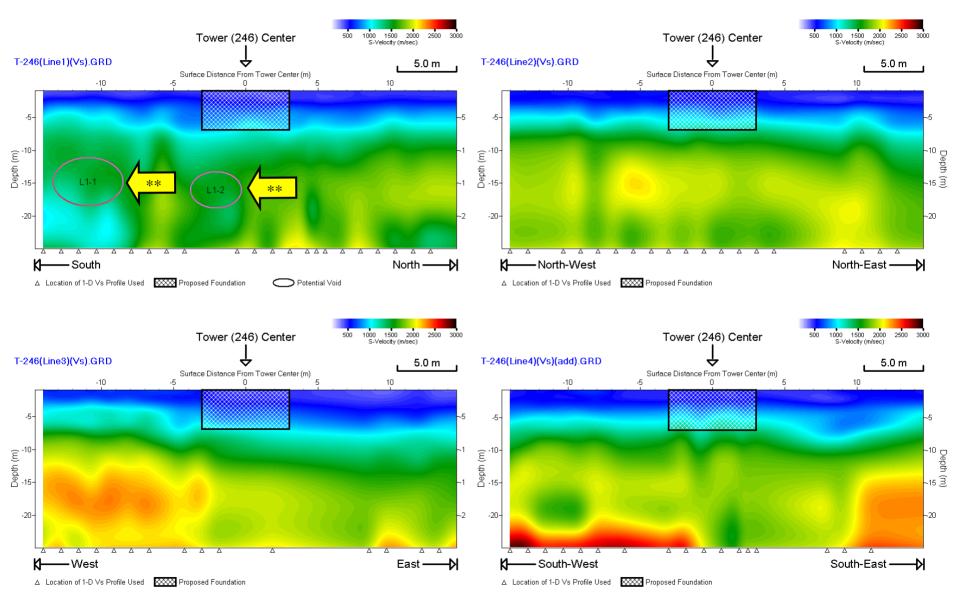


<u>T-245</u>



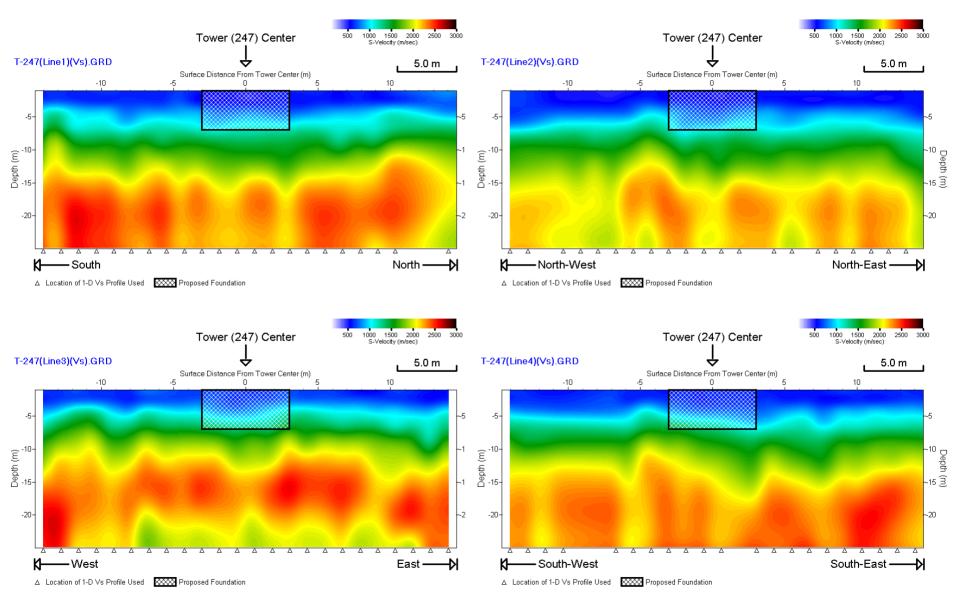
**Data not analyzed due to bad quality

<u>T-246</u>

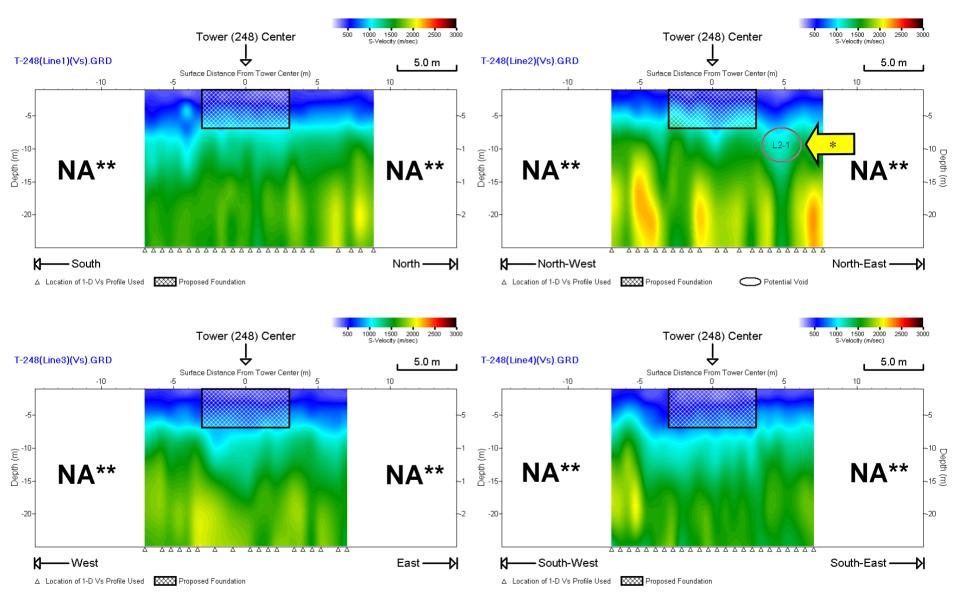


**Potential void (see separate text file for coordinates)

<u>T-247</u>

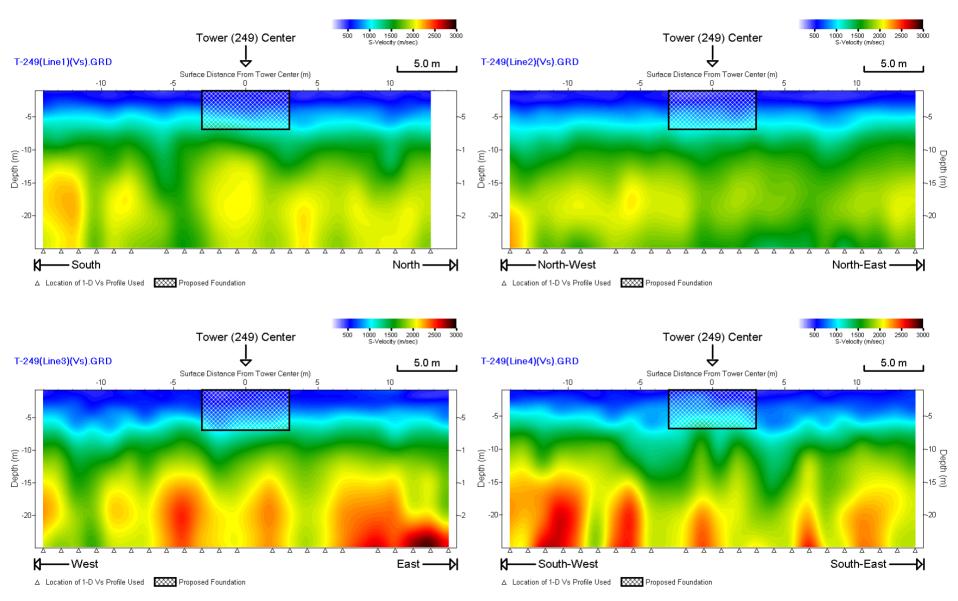


<u>T-248</u>

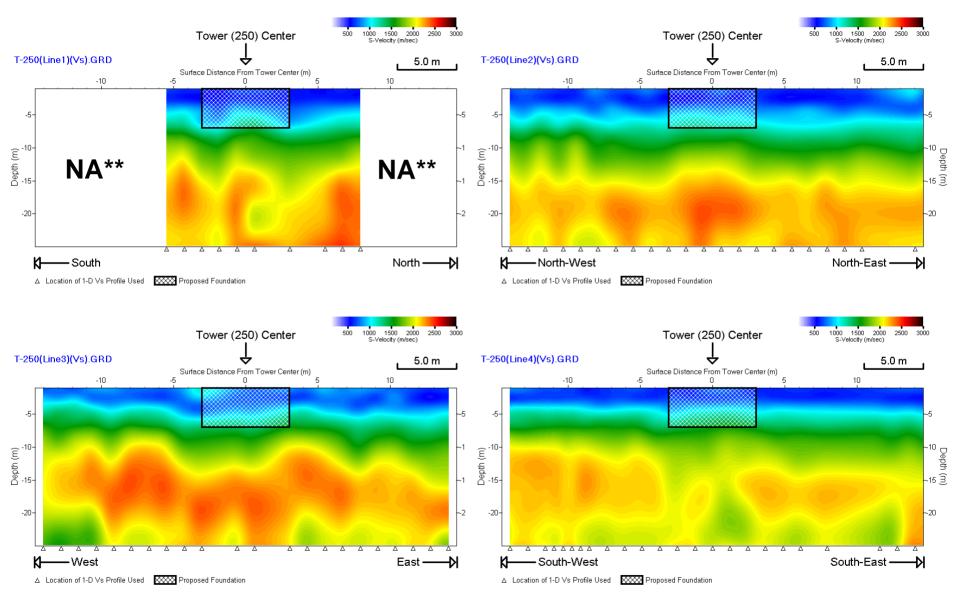


**Data not acquired due to terrain condition (shorter receiver spacing of 2 ft used), *Potential void (see separate text file for coordinates)

<u>T-249</u>

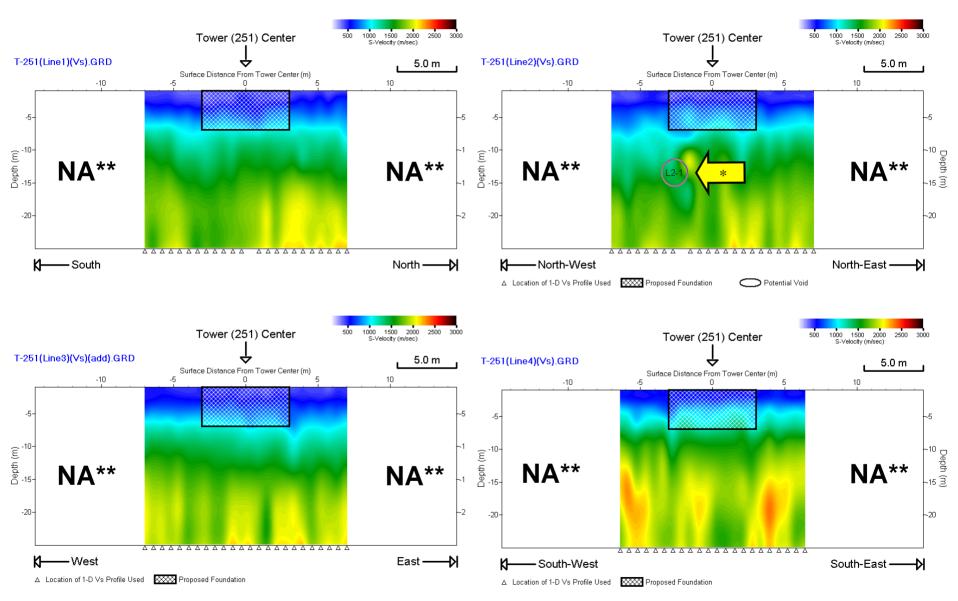


<u>T-250</u>



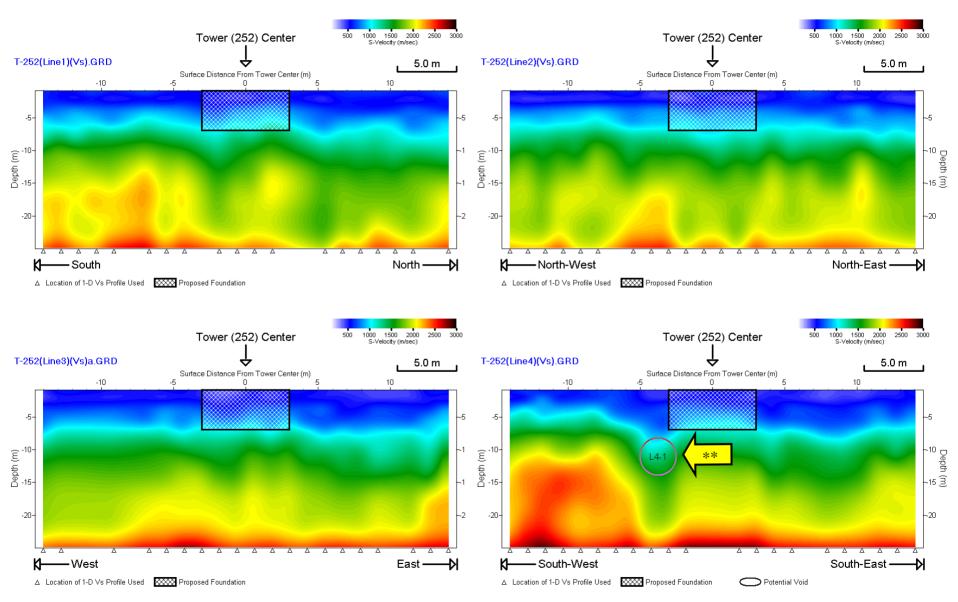
**Data not acquired due to terrain condition

<u>T-251</u>



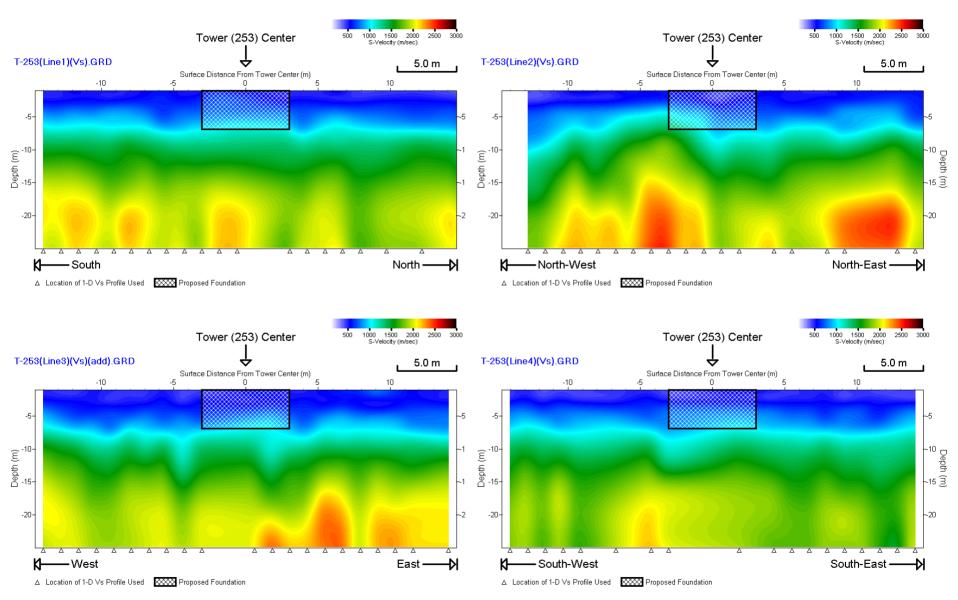
**Data not acquired due to terrain condition (shorter receiver spacing of 2 ft used), *Potential void (see separate text file for coordinates)

<u>T-252</u>

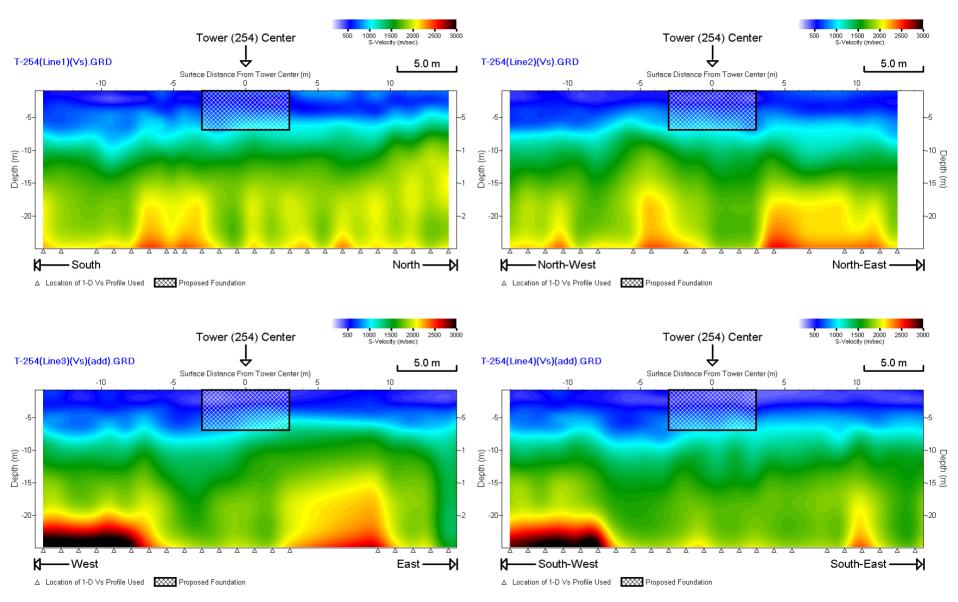


**Potential void (see separate text file for coordinates)

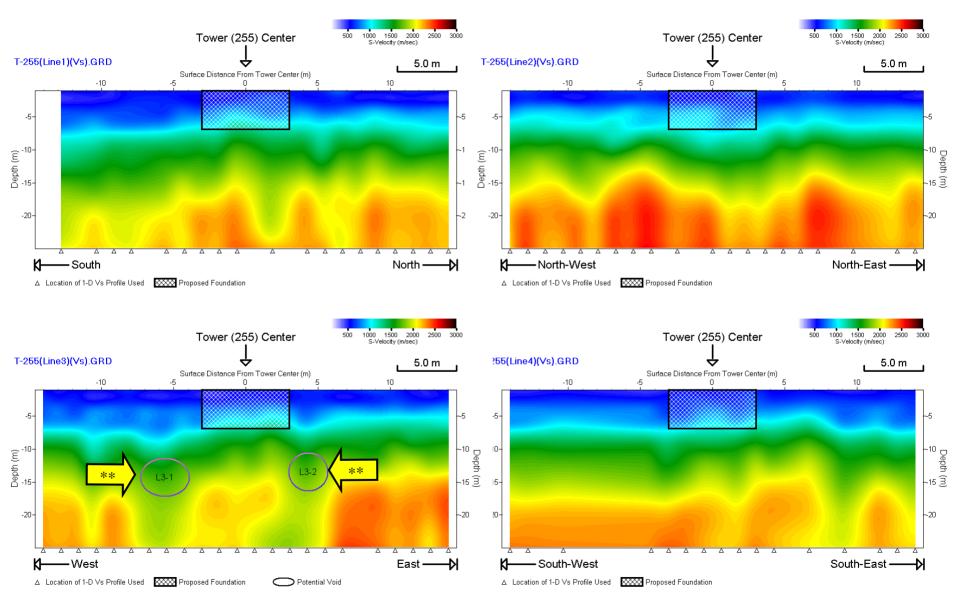
<u>T-253</u>



<u>T-254</u>

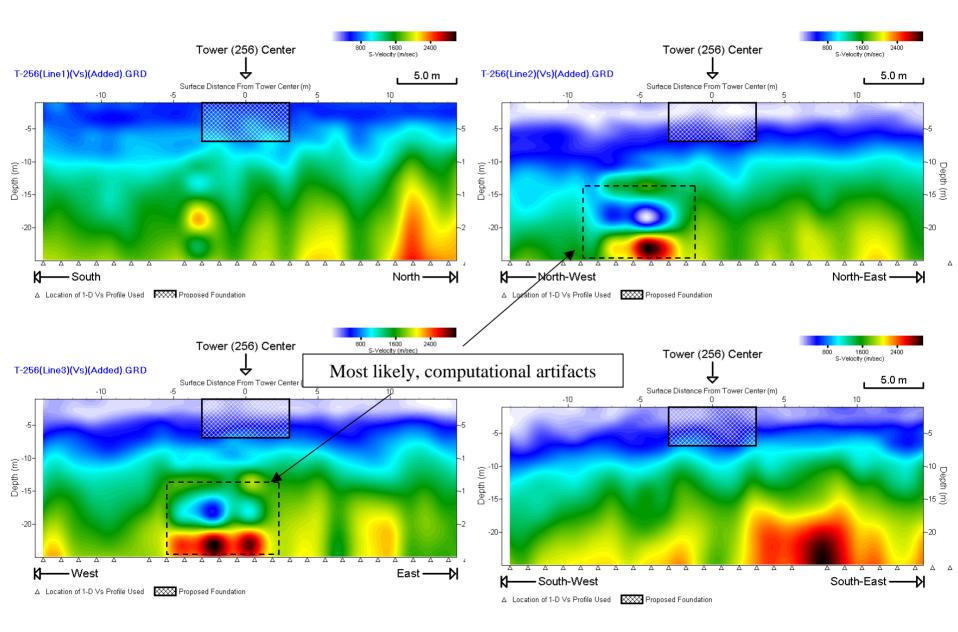


<u>T-255</u>

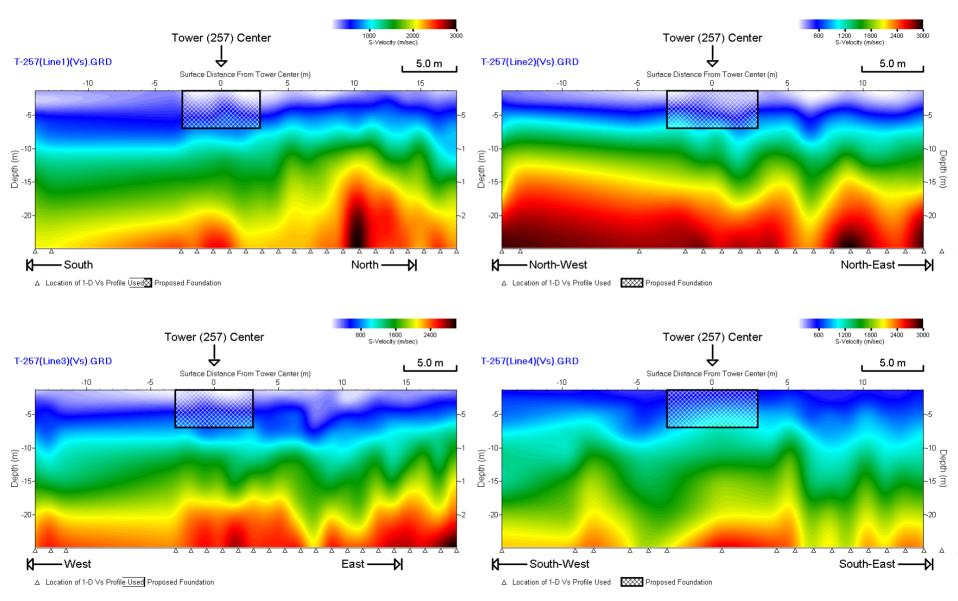


**Potential void (see separate text file for coordinates)

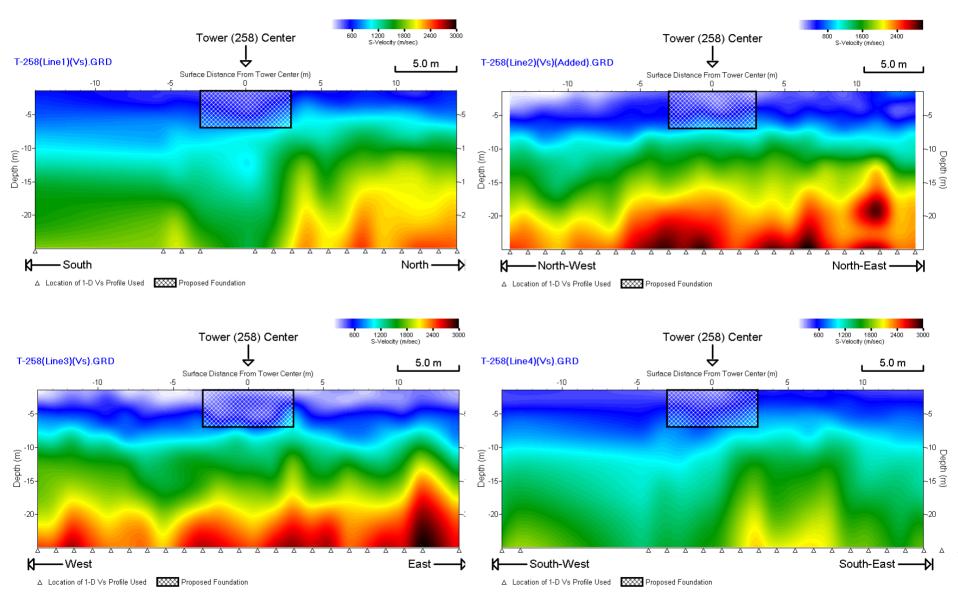
<u>T-256</u>



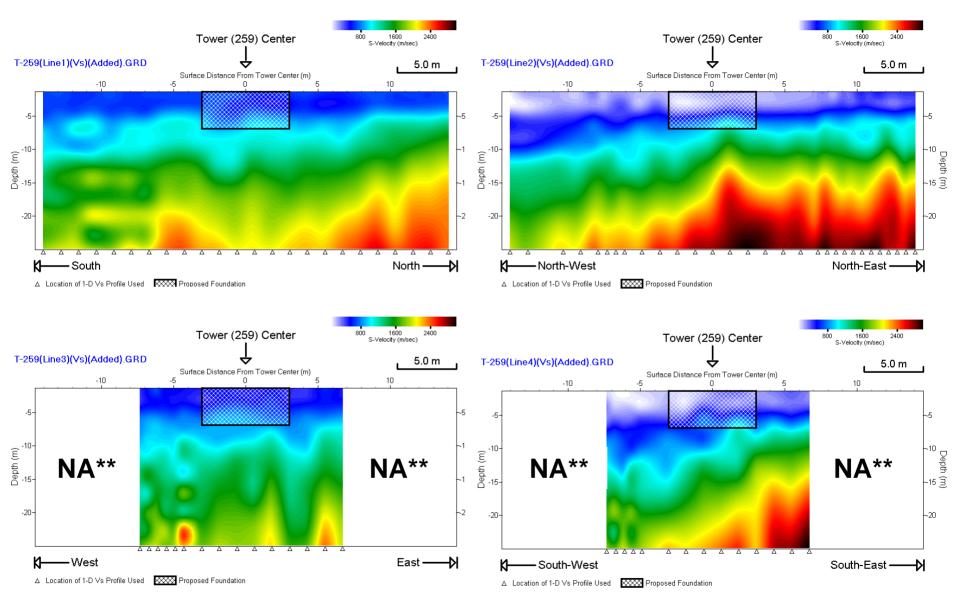
<u>T-257</u>



<u>T-258</u>

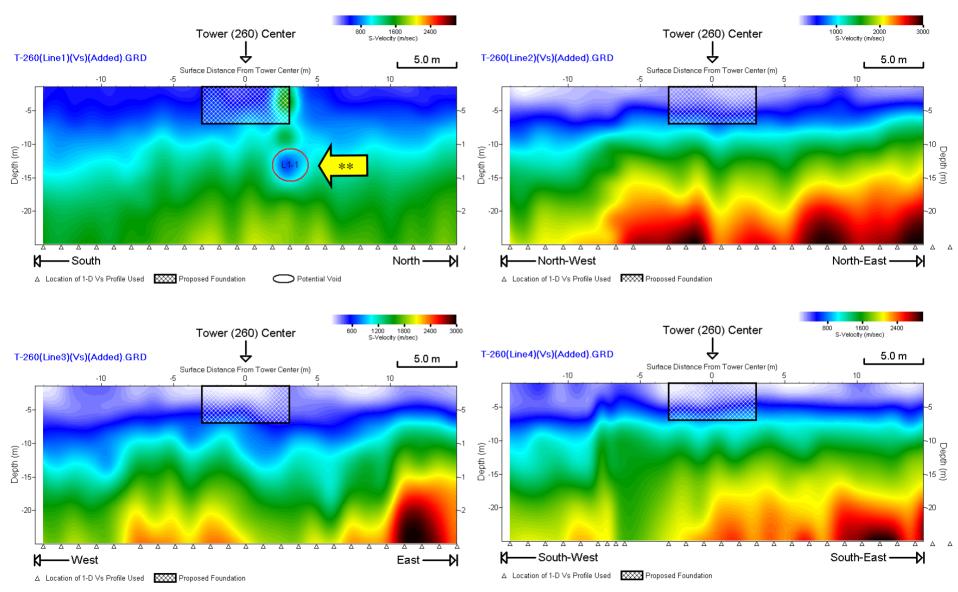


<u>T-259</u>



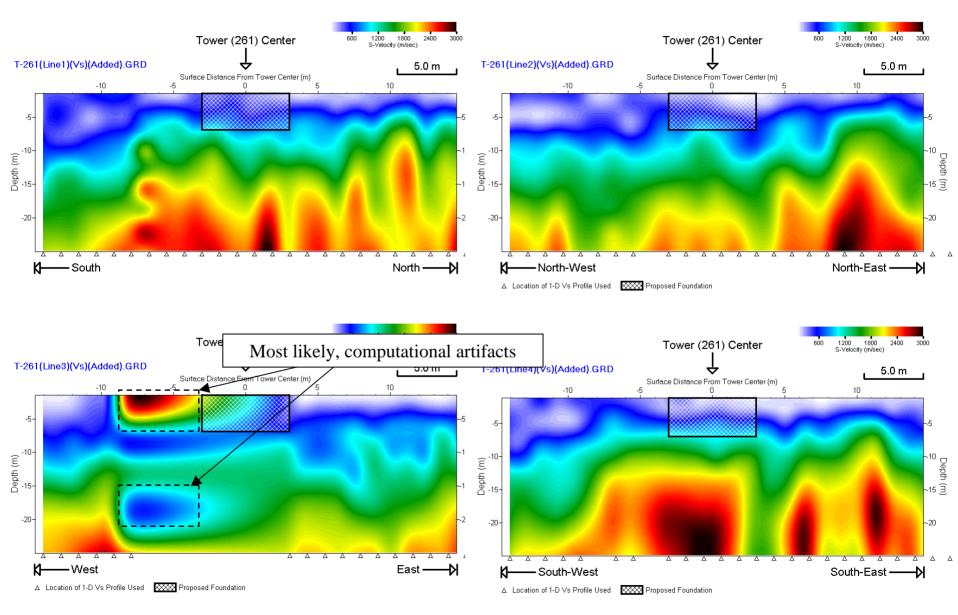
**Data not acquired due to terrain condition

<u>T-260</u>

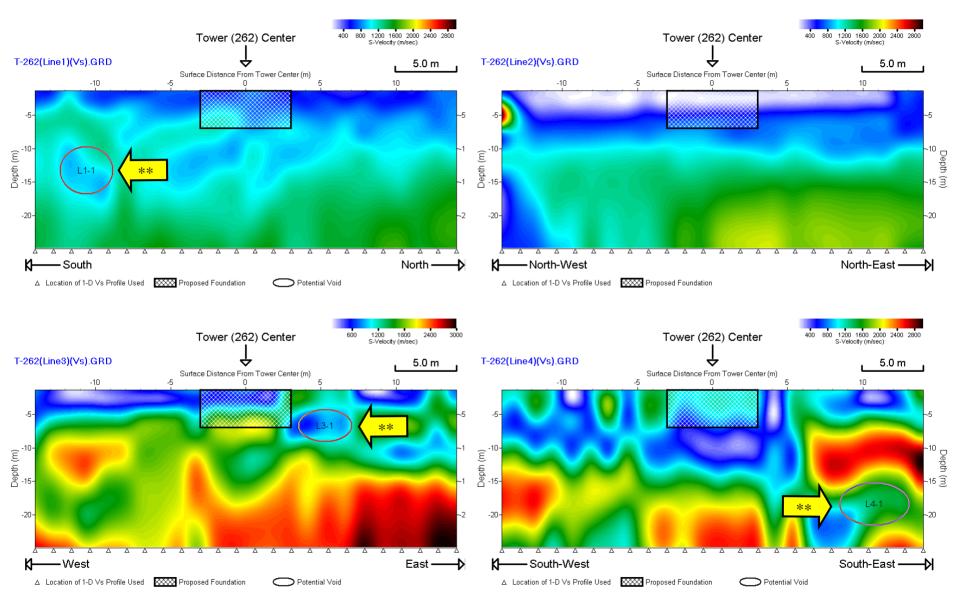


**Potential void (see separate text file for coordinates)

<u>T-261</u>

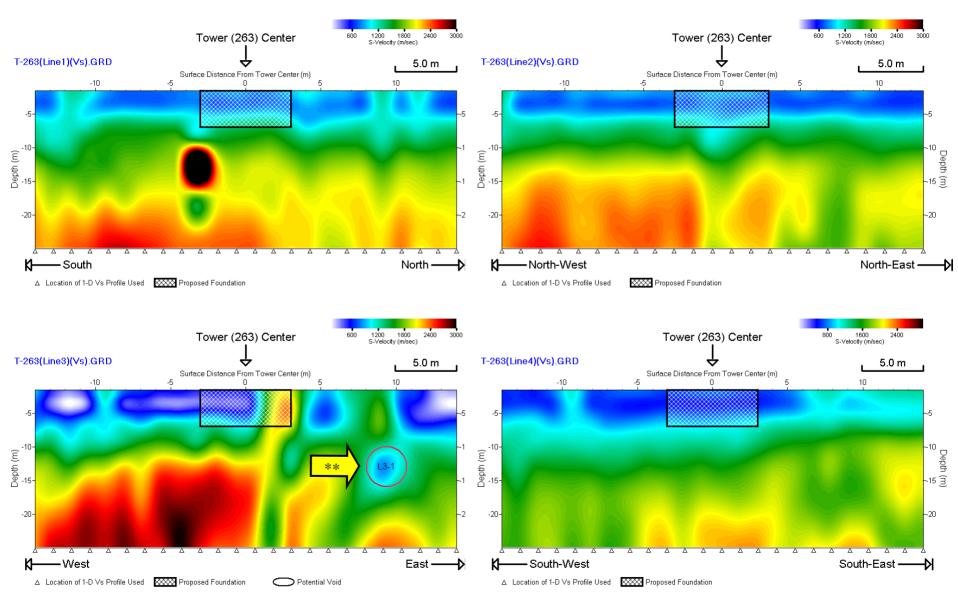


<u>T-262</u>



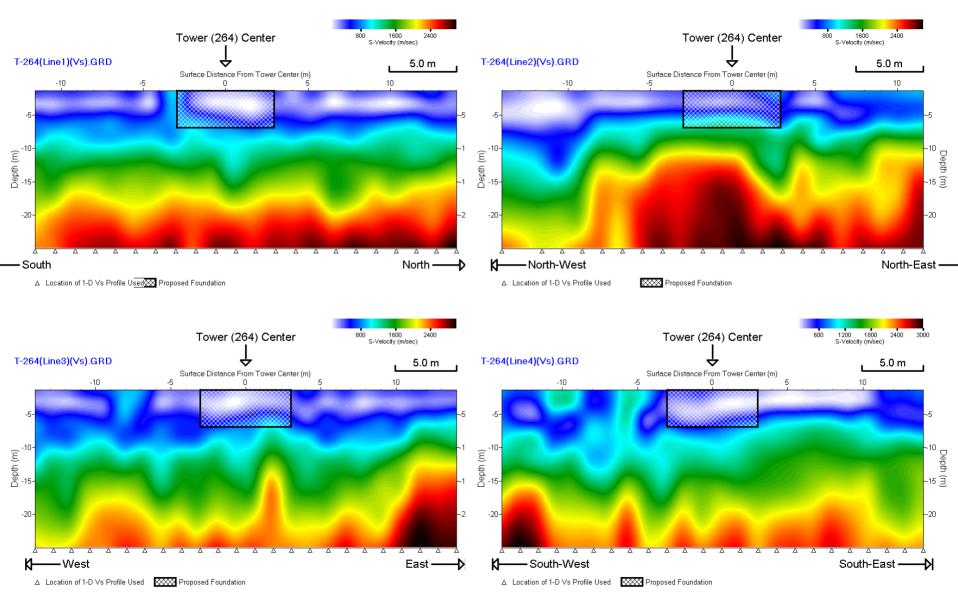
**Potential void (see separate text file for coordinates)

<u>T-263</u>

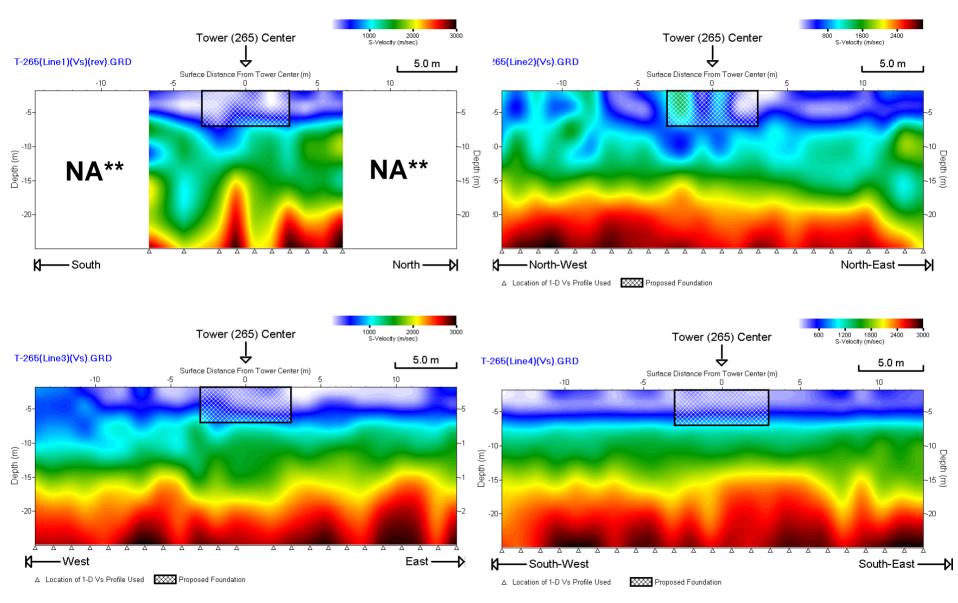


**Potential void (see separate text file for coordinates)

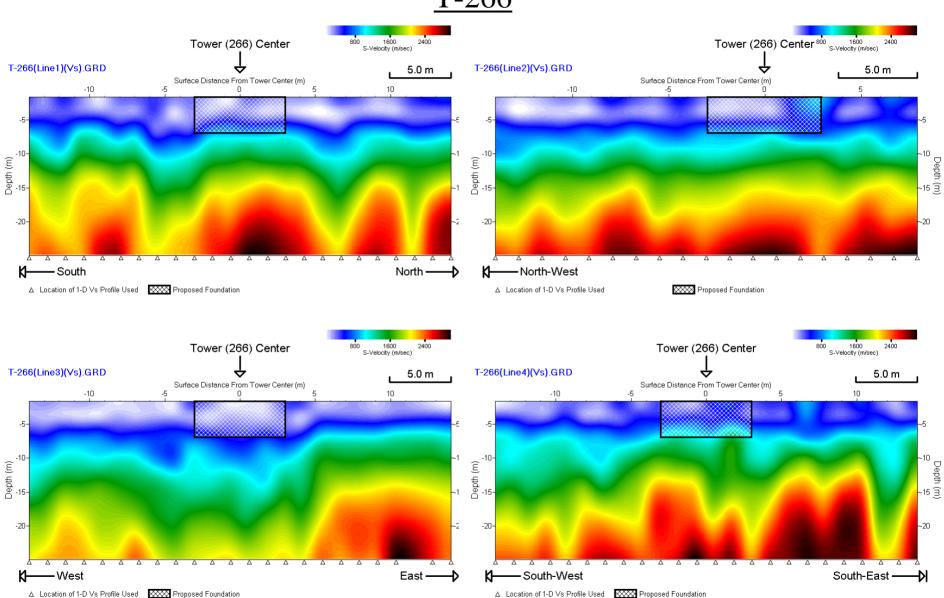
<u>T-264</u>



<u>T-265</u>

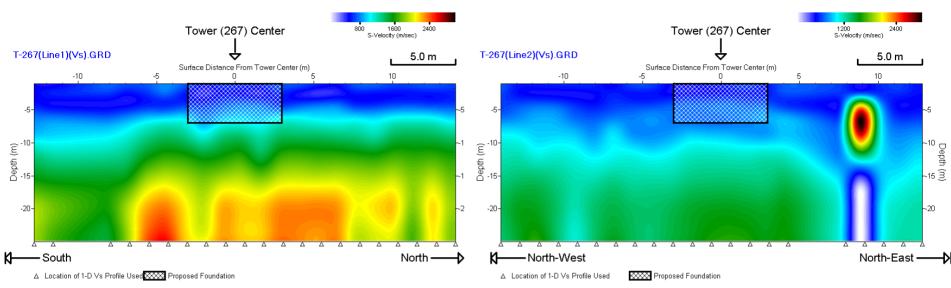


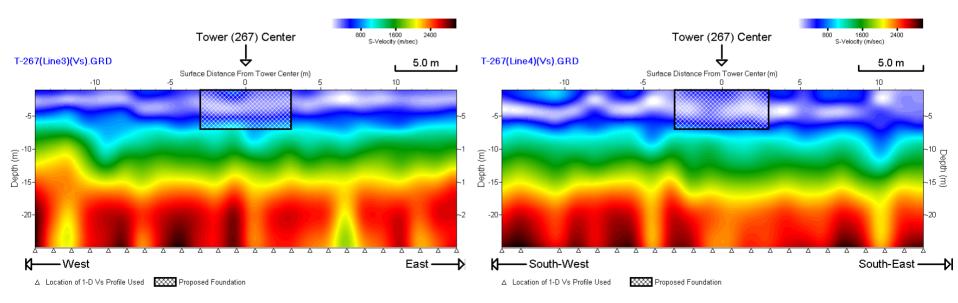
**Data not acquired due to terrain condition



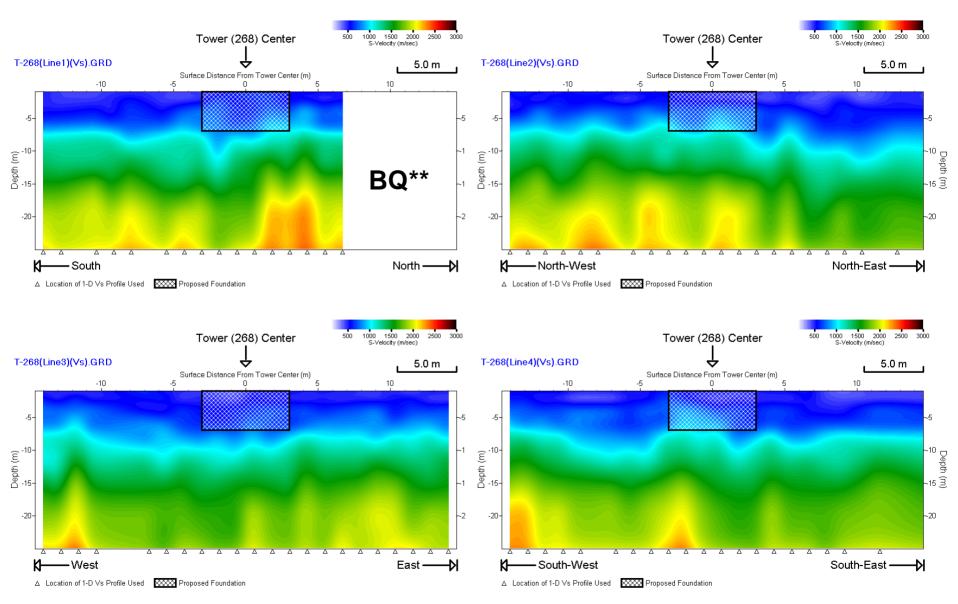
<u>T-266</u>

<u>T-267</u>



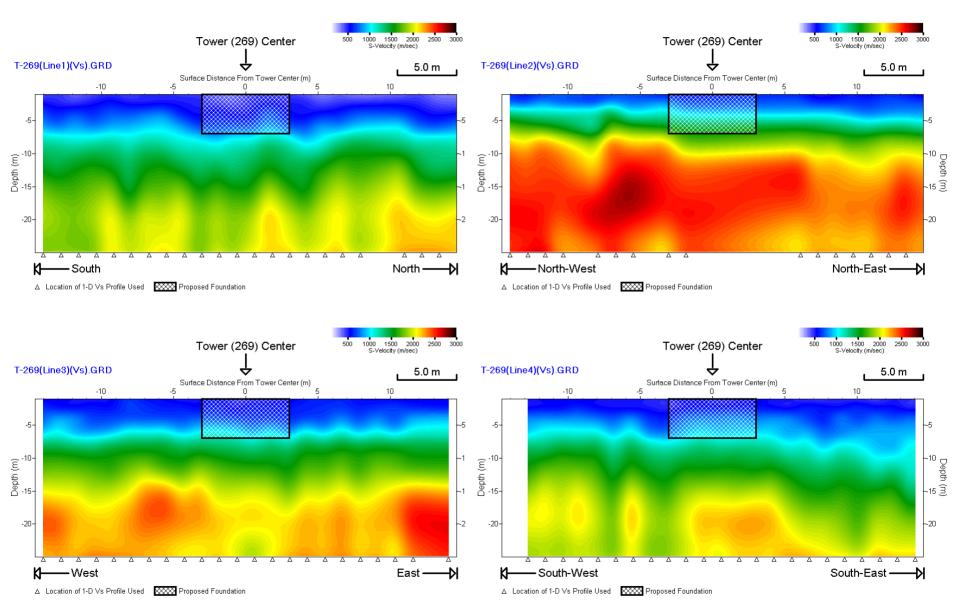


<u>T-268</u>

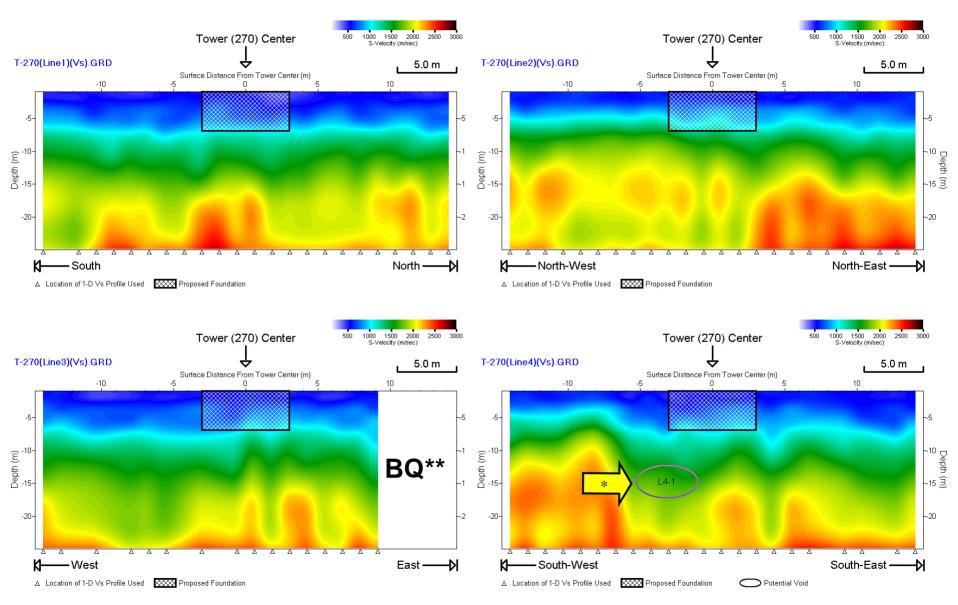


**Data not analyzed due to bad quality

<u>T-269</u>

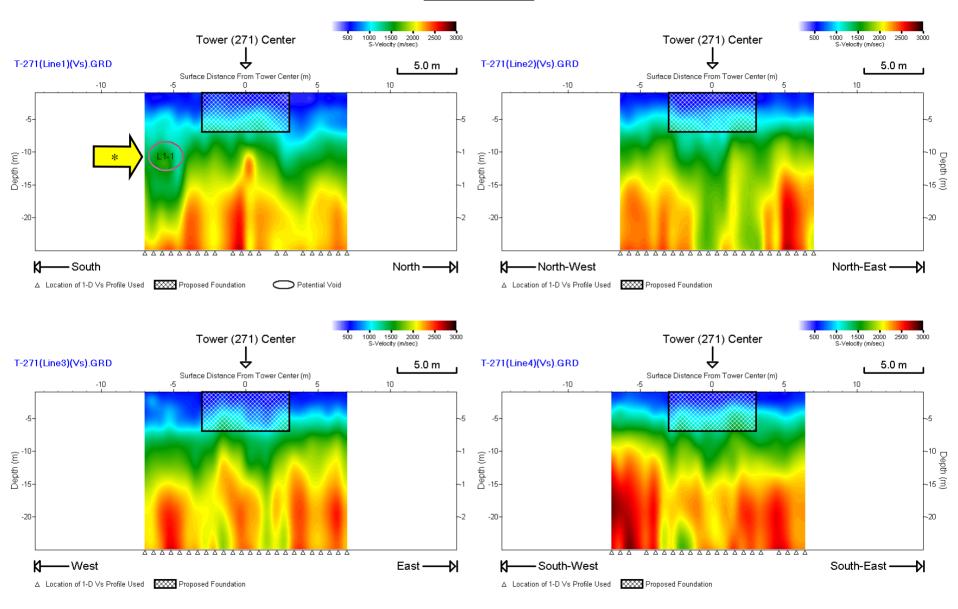


<u>T-270</u>



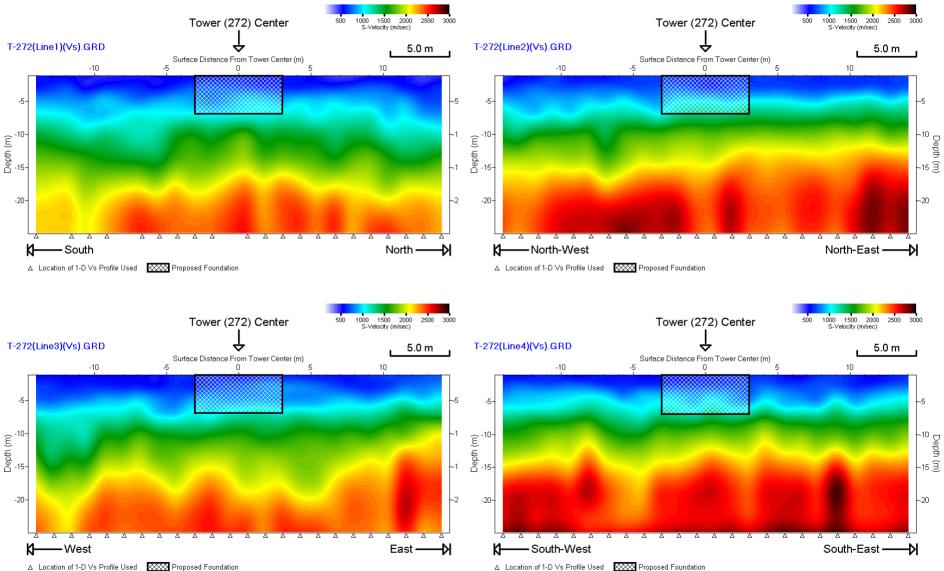
*Potential void (see separate text file for coordinates), **Data not analyzed due to bad quality

<u>T-271**</u>

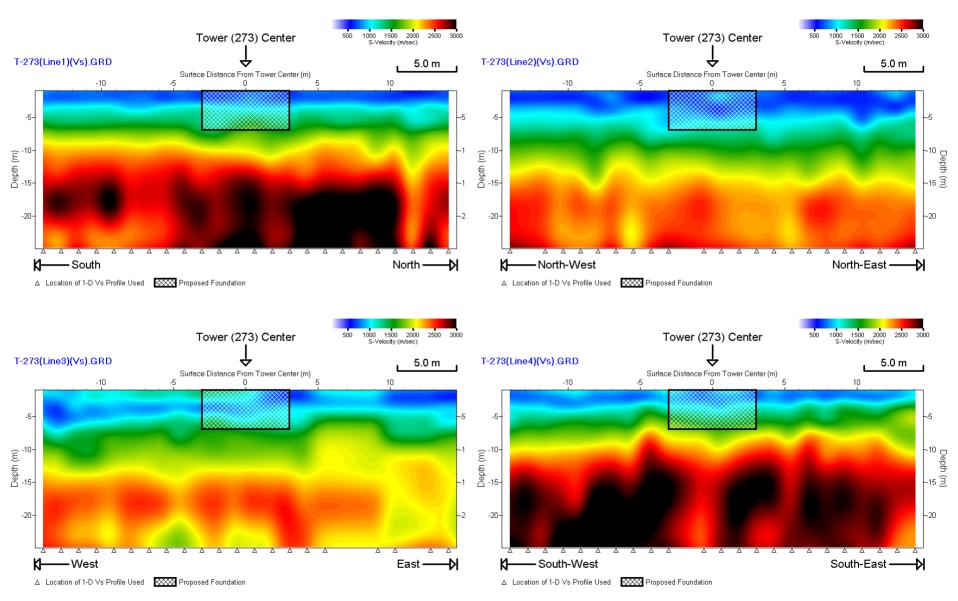


**A shorter receiver spacing (2 ft) was used for all four (4) lines due to terrain condition. * Potential void (see separate text file for coordinates)

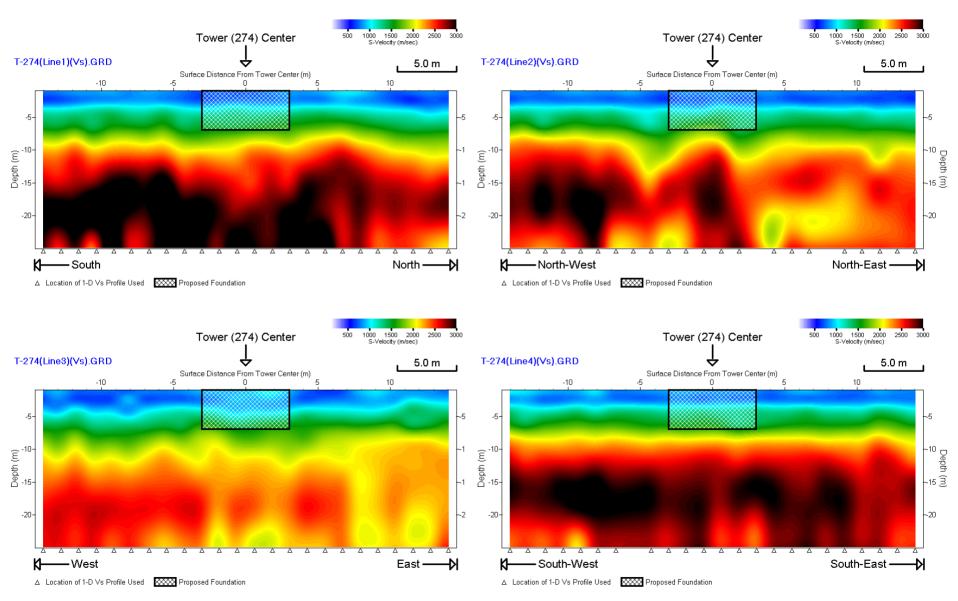
<u>T-272</u>



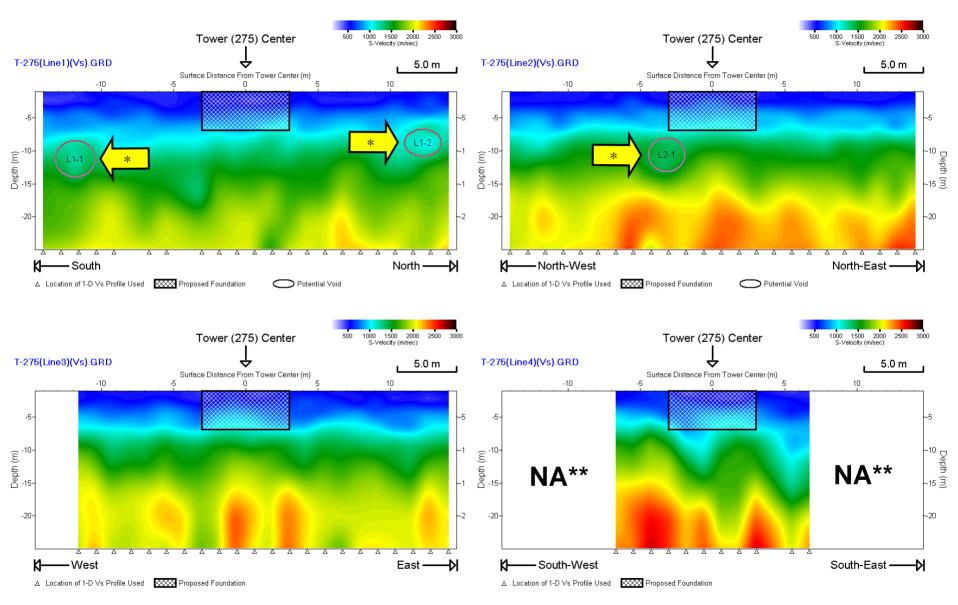
<u>T-273</u>



<u>T-274</u>

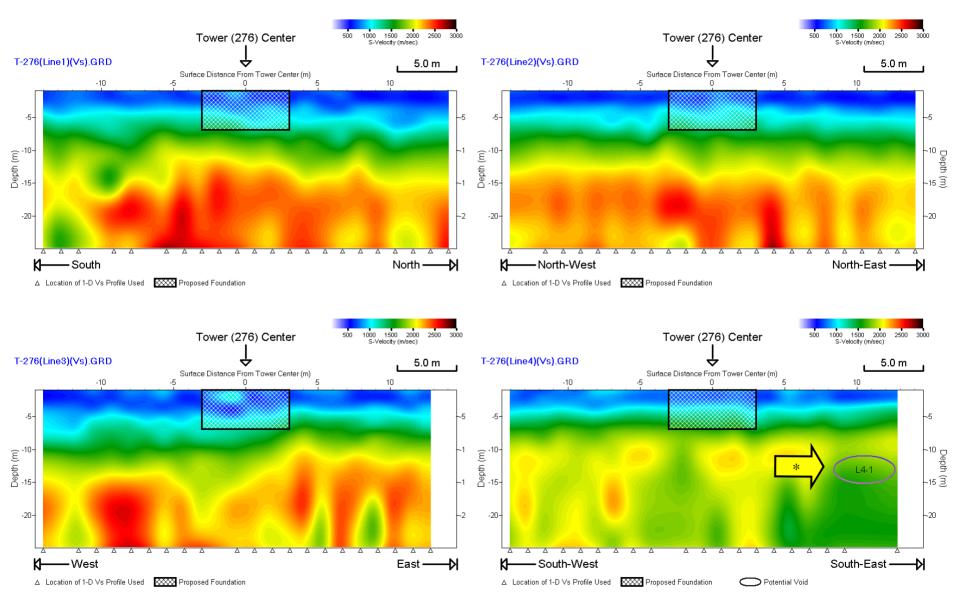


<u>T-275</u>



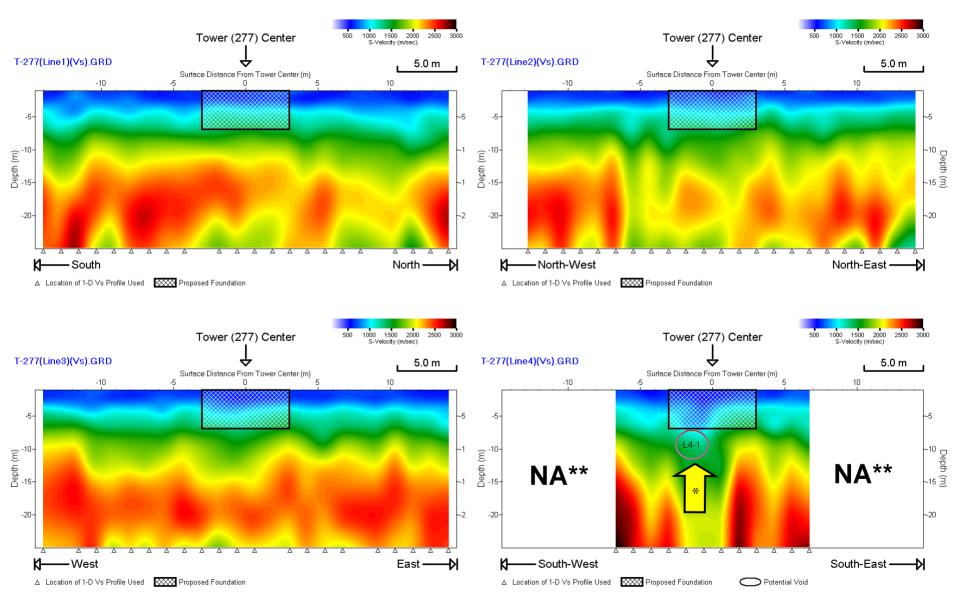
*Potential void (see separate text file for coordinates), **Data not acquired due to terrain condition

<u>T-276</u>



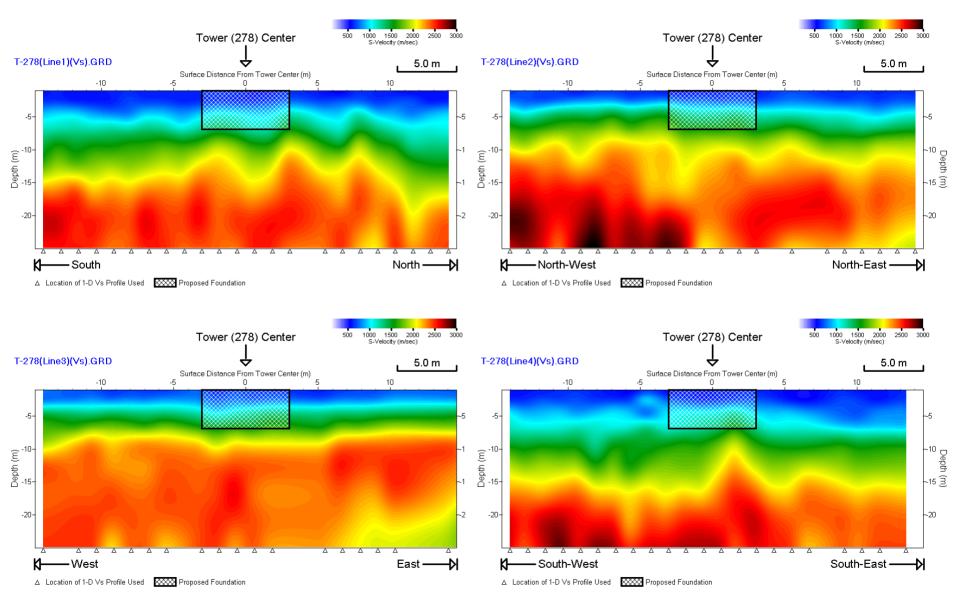
*Potential void (see separate text file for coordinates)

<u>T-277</u>

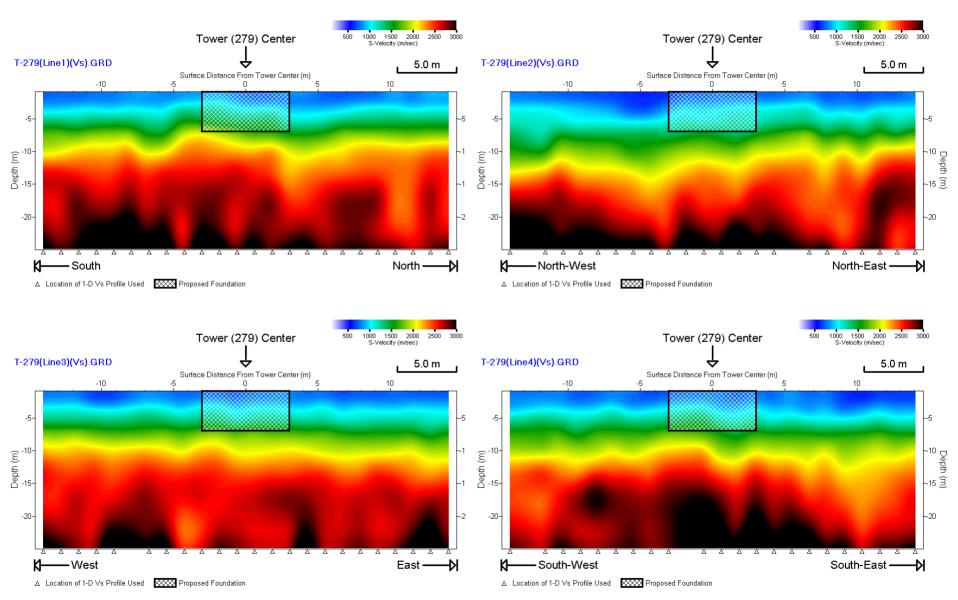


*Potential void (see separate text file for coordinates), **Data not acquired due to terrain condition (steep drop off)

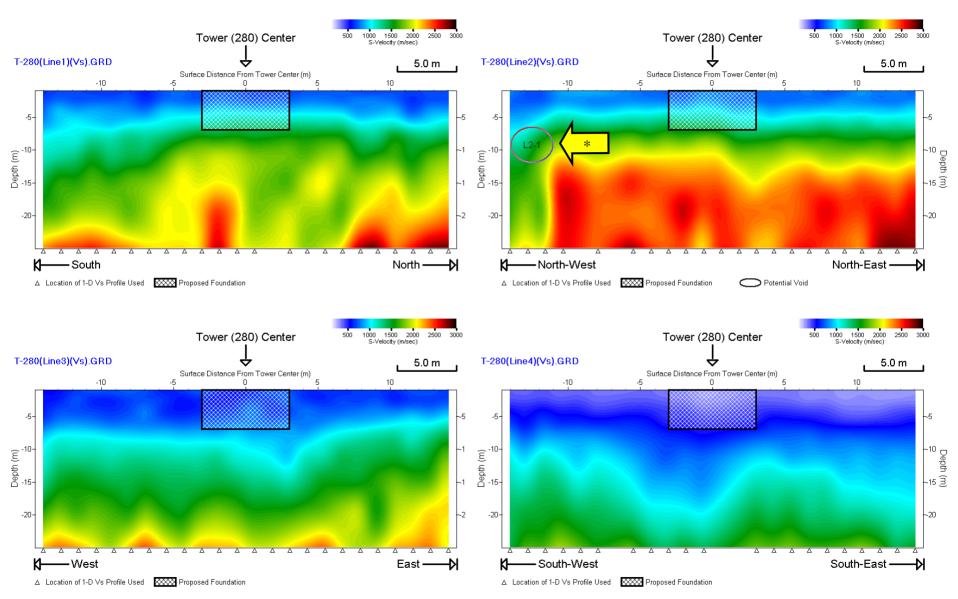
<u>T-278</u>



<u>T-279</u>

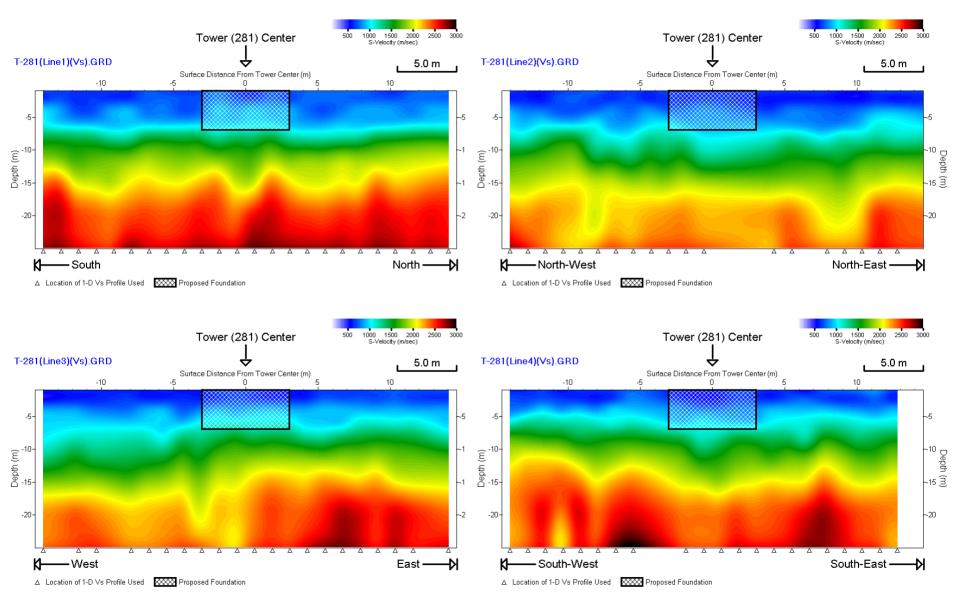


<u>T-280</u>

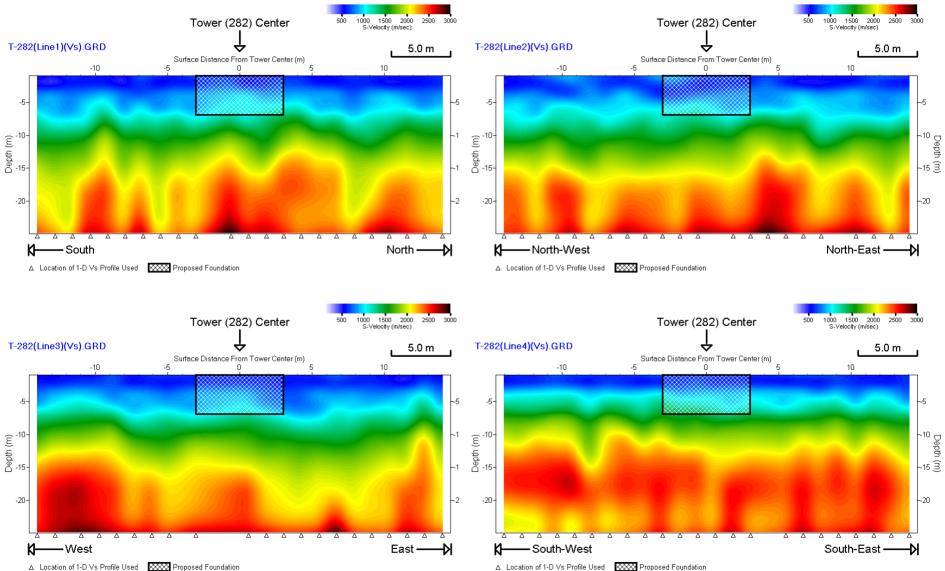


*Potential void (see separate text file for coordinates)

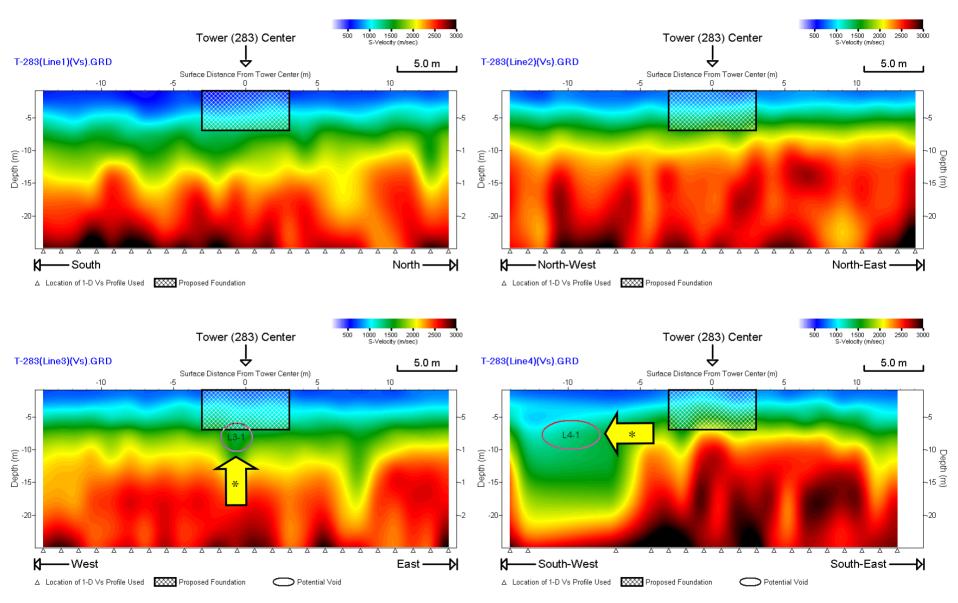
<u>T-281</u>



<u>T-282</u>



<u>T-283</u>



*Potential void (see separate text file for coordinates)

<u>T-284</u>

