<u>APPENDICES</u>

to

"Seismic Characterization of Wind Turbine Sites in Kansas by the MASW Method"

Maps from Different Types of MASW Analyses APPENDIX I

2-D Shear-Wave Velocity (Vs) Analysis

APPENDIX II

Side Scattering Analysis (SSA)

APPENDIX III

Surface-Wave Imaging by Attenuation (SIA)

APPENDIX IV

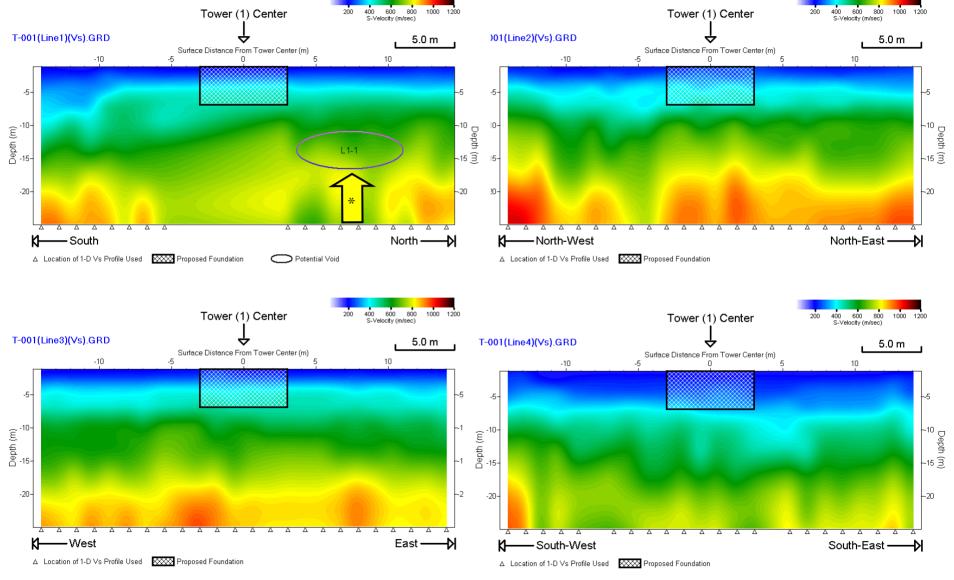
Bedrock (500 m/sec ≤ Vs) Topography

APPENDIX I

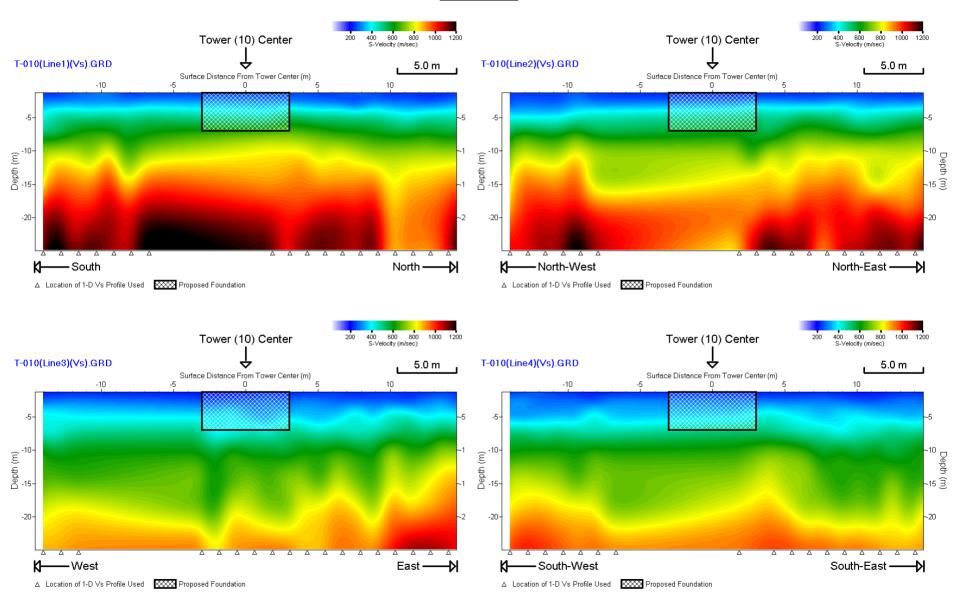
Elk River 10 Selected Sites

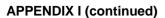
2-D Shear-Wave Velocity (Vs) Analysis

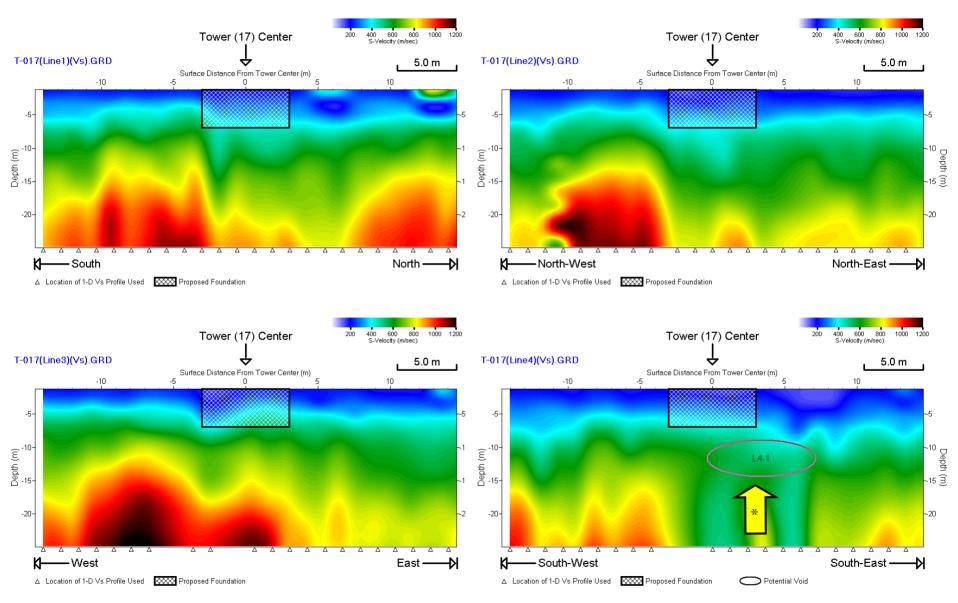
- T-001
- T-010
- T-017
- T-040
- T-046
- T-060
- T-064
- T-065T-066
- T-086



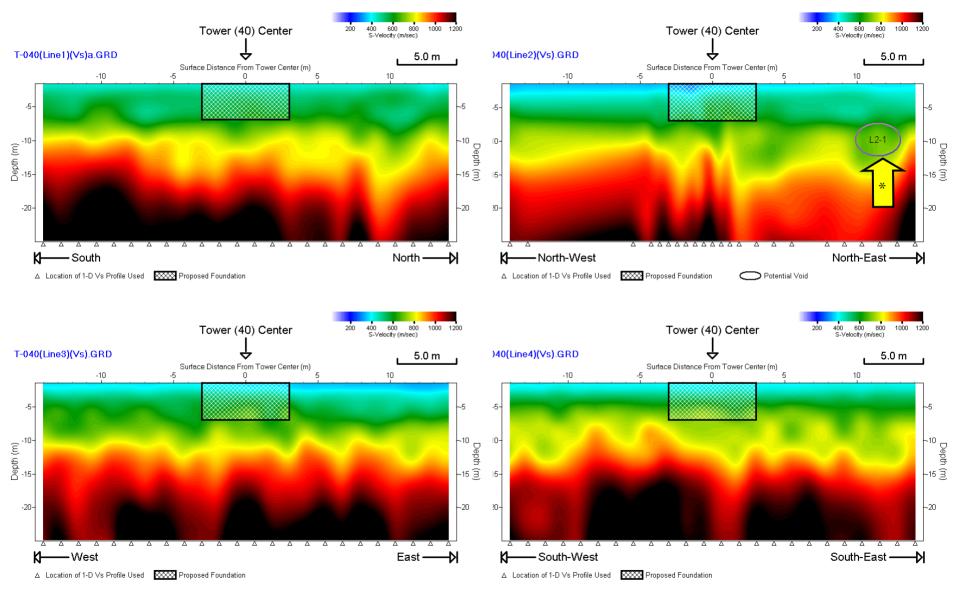
*Potential void or anomaly (see separate text file for coordinates)





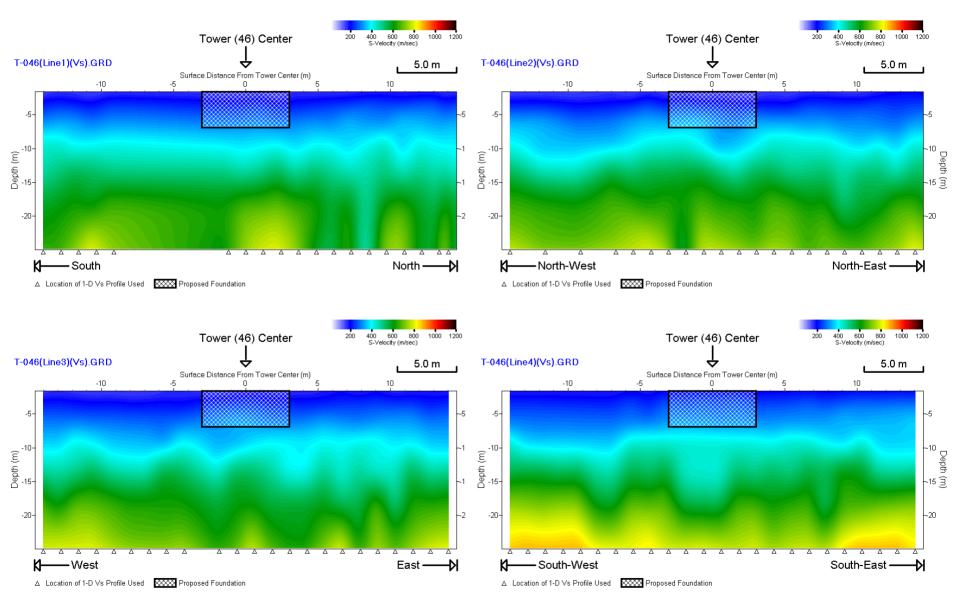


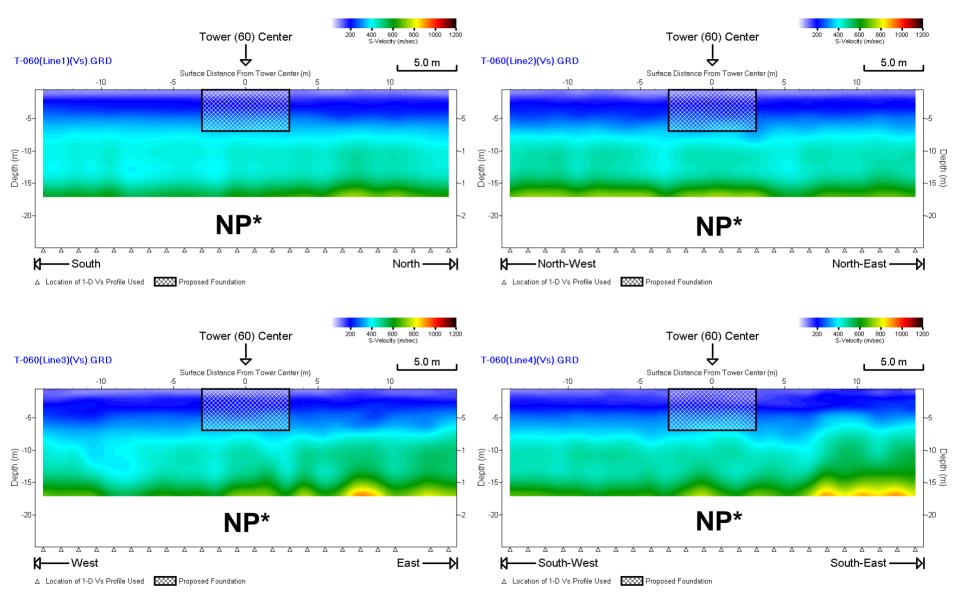
*Potential void or anomaly (see separate text file for coordinates)



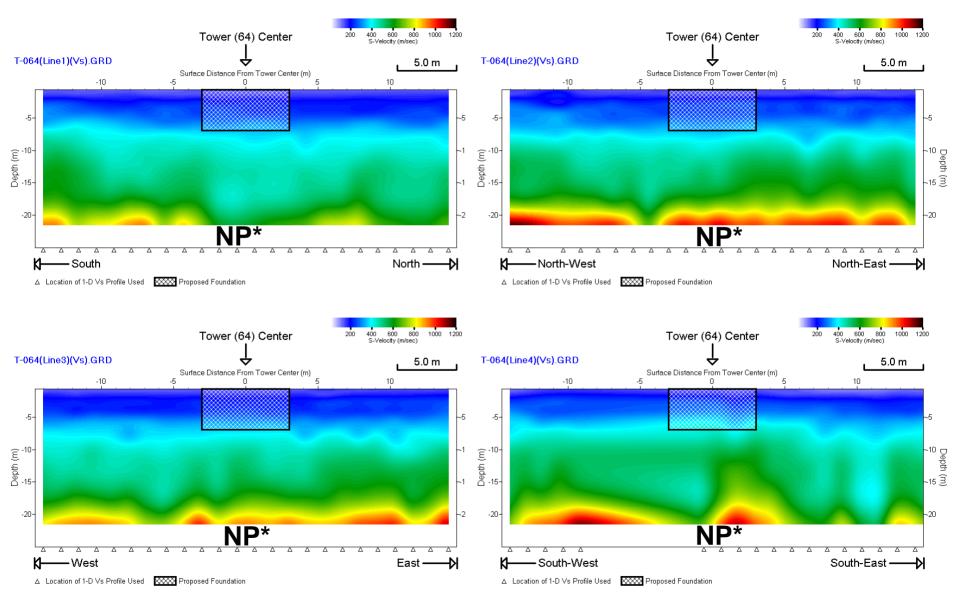
*Potential void (see separate text file for coordinates)

T-046

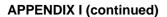




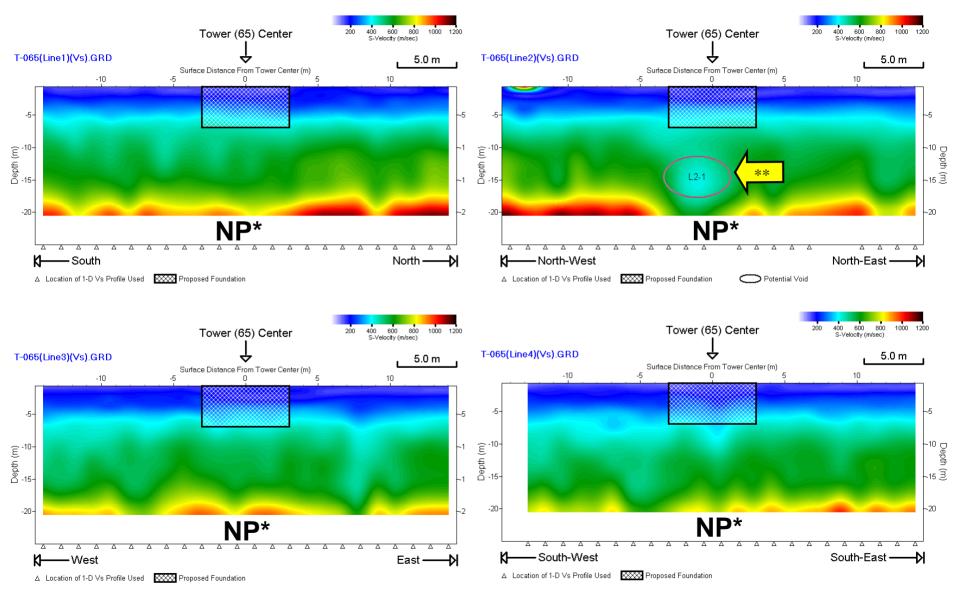
*Data not available due to insufficient penetration of surface waves



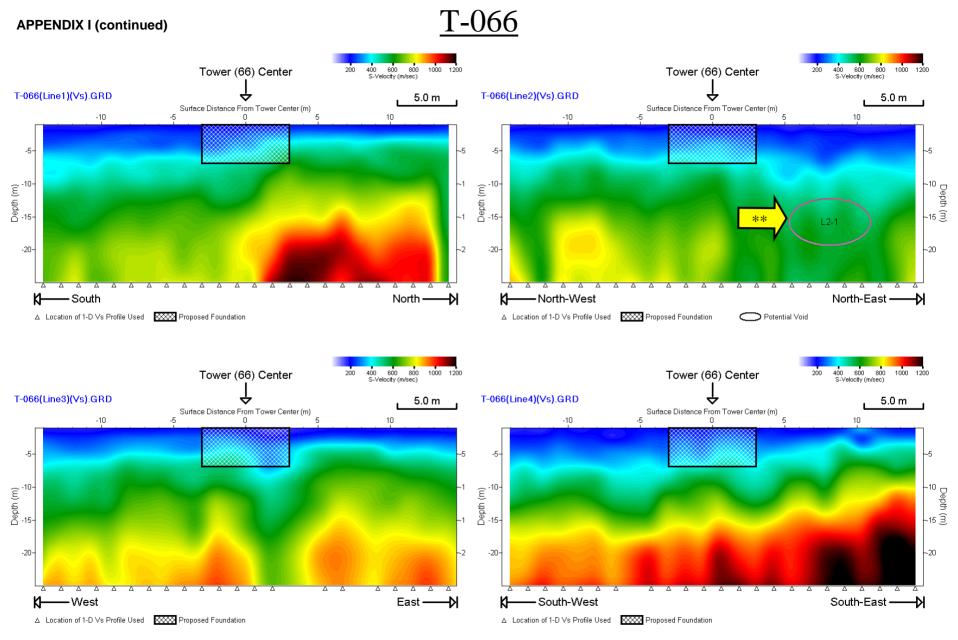
*Data not available due to insufficient penetration of surface waves



<u>T-065</u>

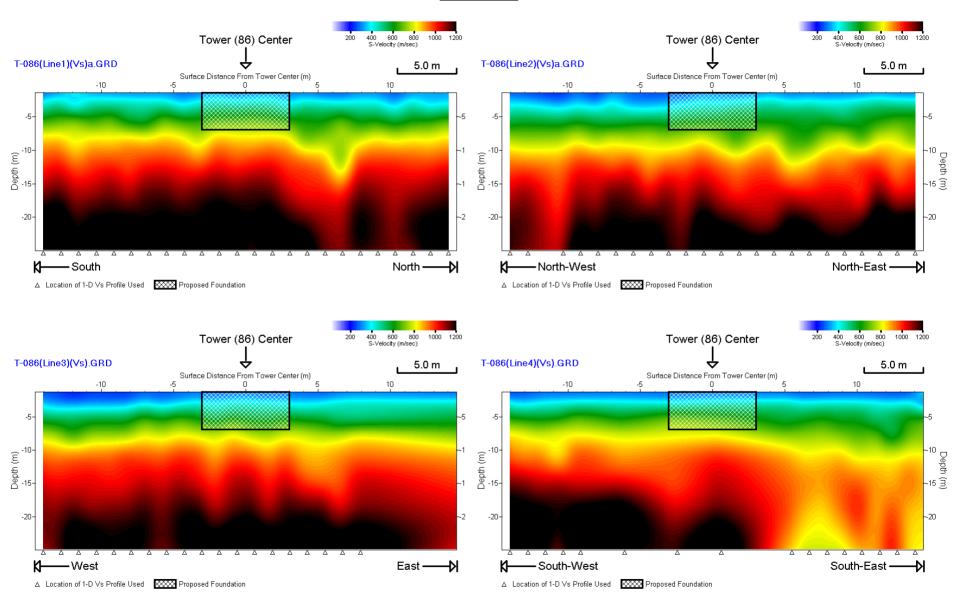


*Data not available due to insufficient penetration of surface waves **Potential void or anomaly (see separate text file for coordinates)



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

T-086

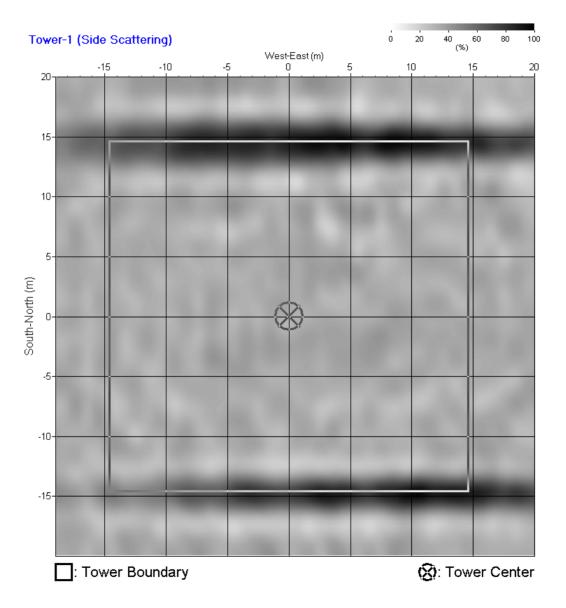


APPENDIX II

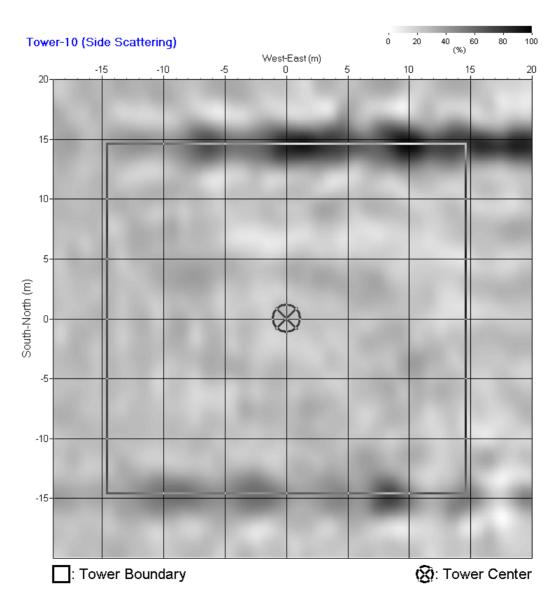
Side Scattering Analysis (SSA) **Elk River 10 Selected Sites**

Sensitive Depth Range: 1 – 10 m

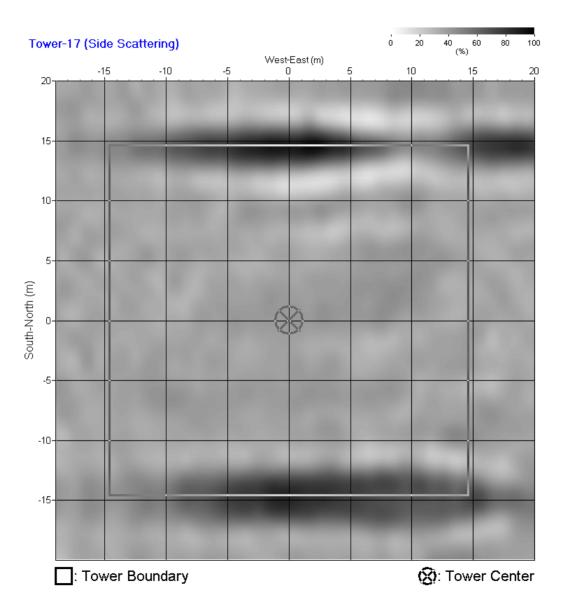
- T-001
- T-010
- T-017
- T-040
- T-046
- T-060
- T-064
- T-065T-066
- T-086



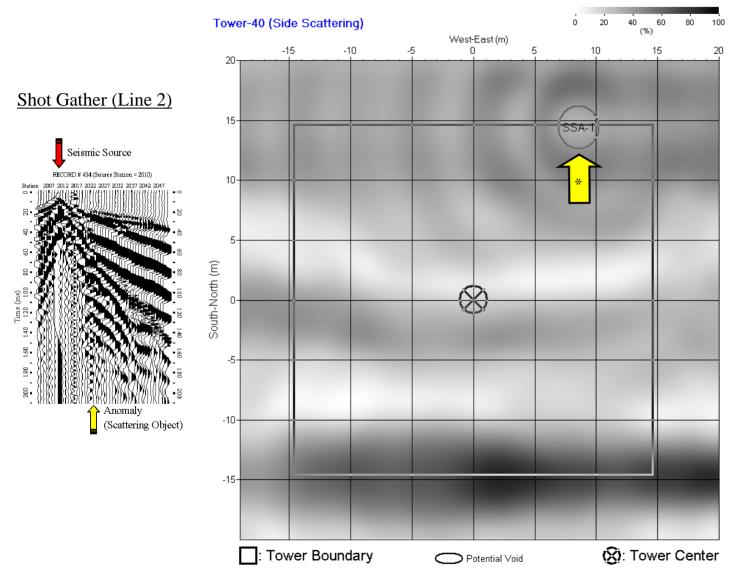
$\underline{T-010}$



$\underline{\text{T-017}}$



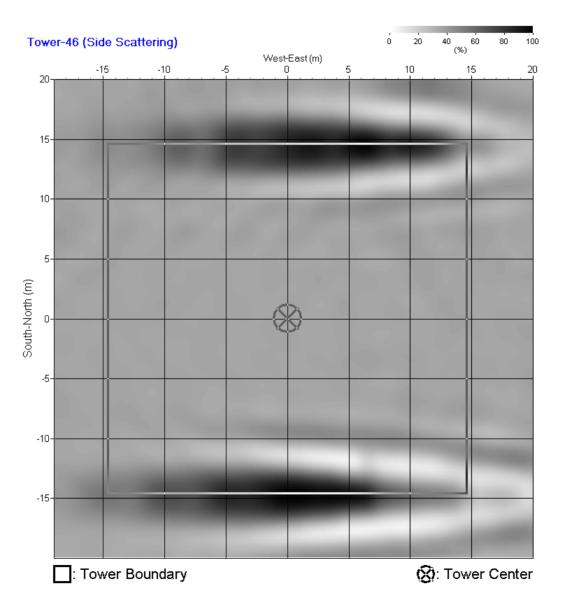
T-040+



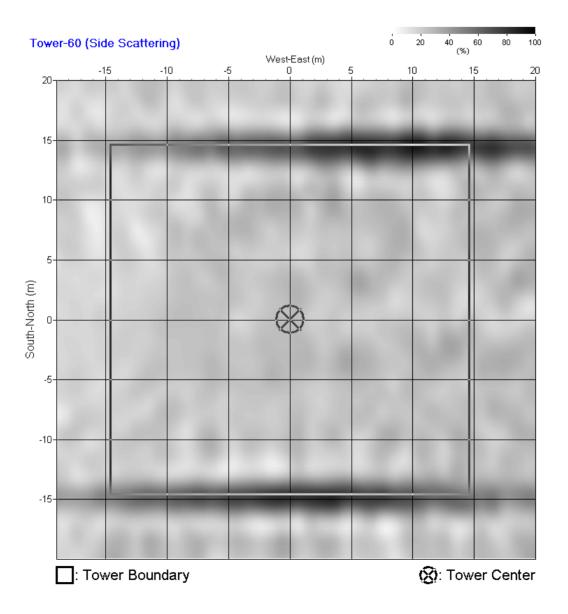
+ Potential void (SSA-1) identified is also correlated with the scattering feature observed in the corresponding part (within Line2) of the seismic line as illustrated on the left of SSA image.

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

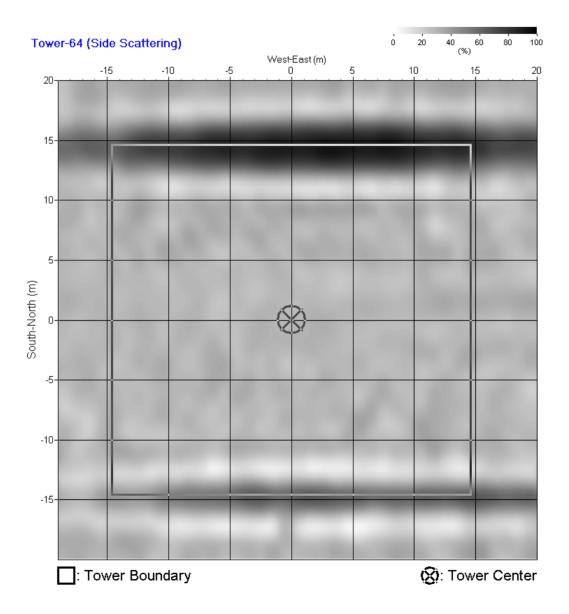
<u>T-046</u>



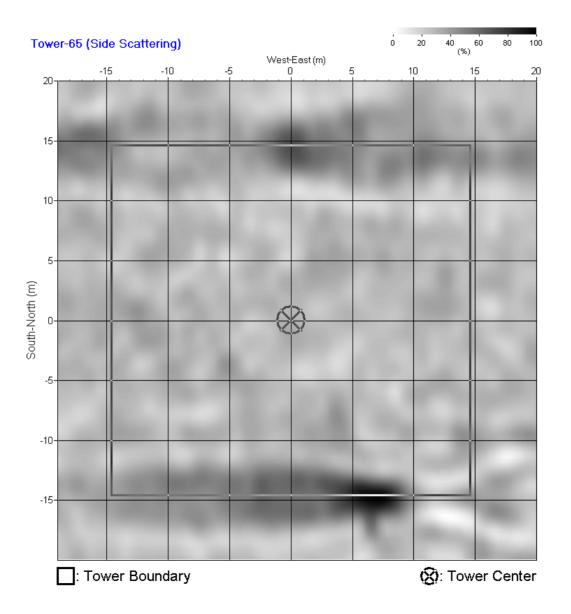
<u>T-060</u>



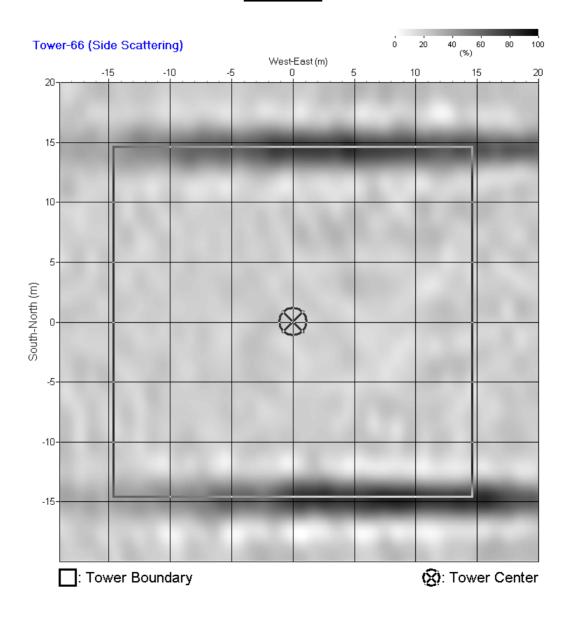
<u>T-064</u>



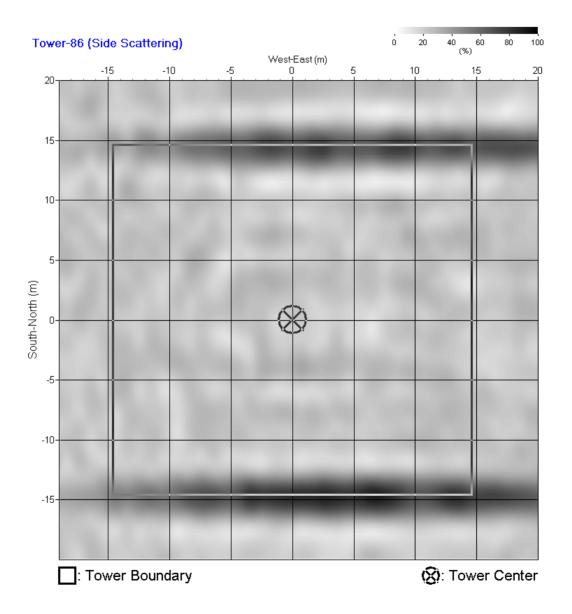
<u>T-065</u>



<u>T-066</u>



<u>T-086</u>



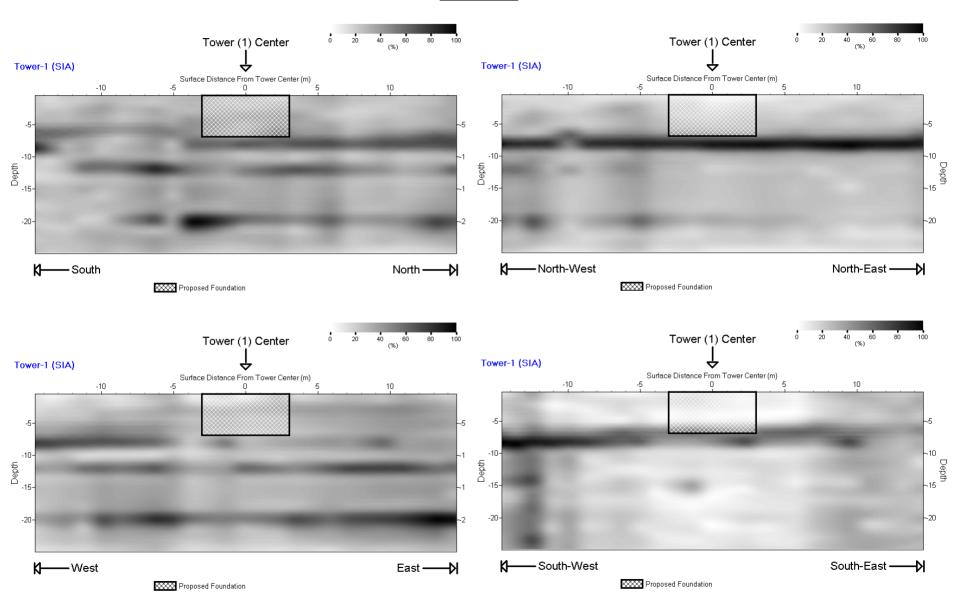
APPENDIX III

Elk River 10 Selected Sites

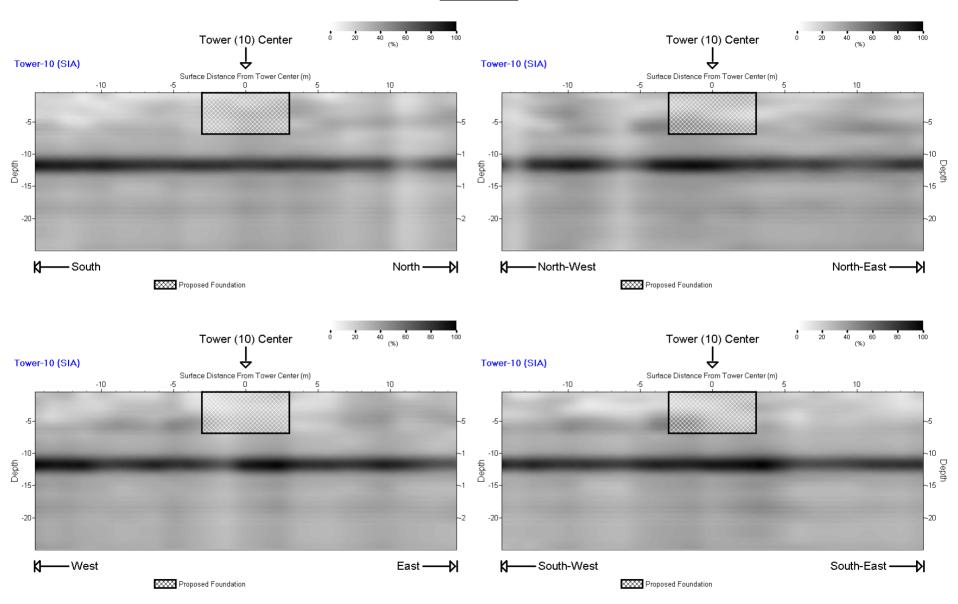
Surface-Wave Imaging by Attenuation (SIA)

- T-001
- T-010
- T-017
- T-040
- T-046T-060
- T-064
- T-065
- T-066
- T-086

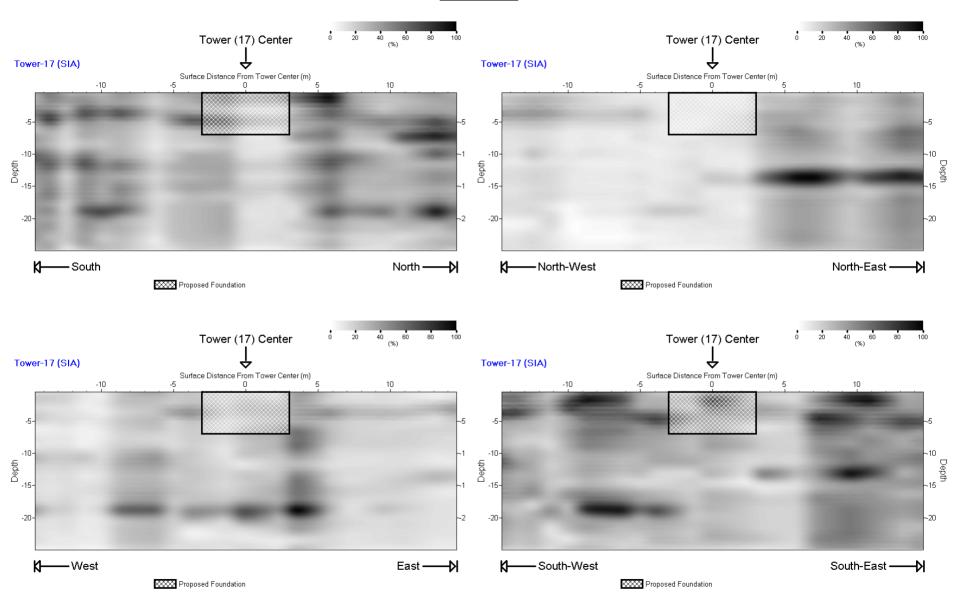
T-001



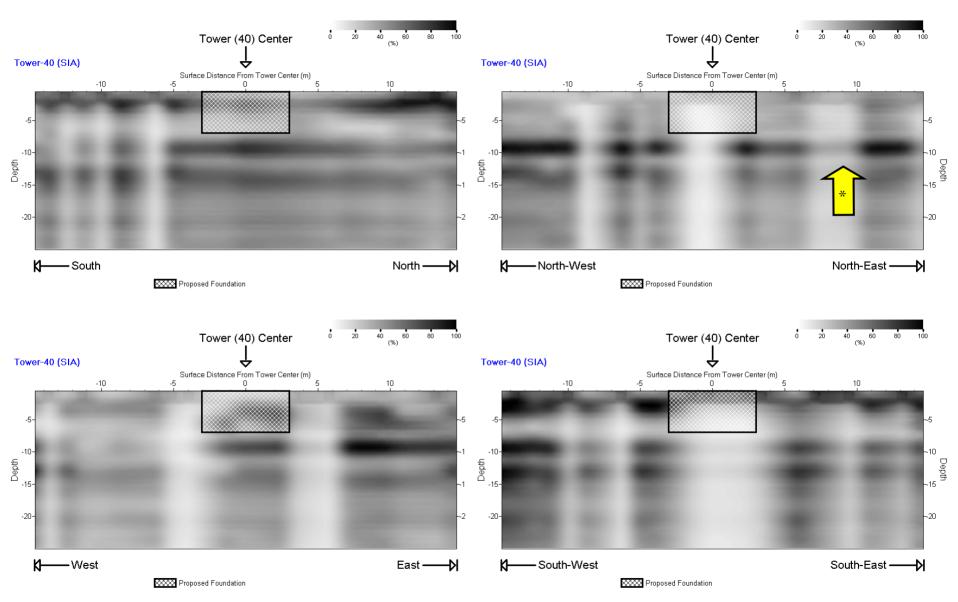
<u>T-010</u>



<u>T-017</u>

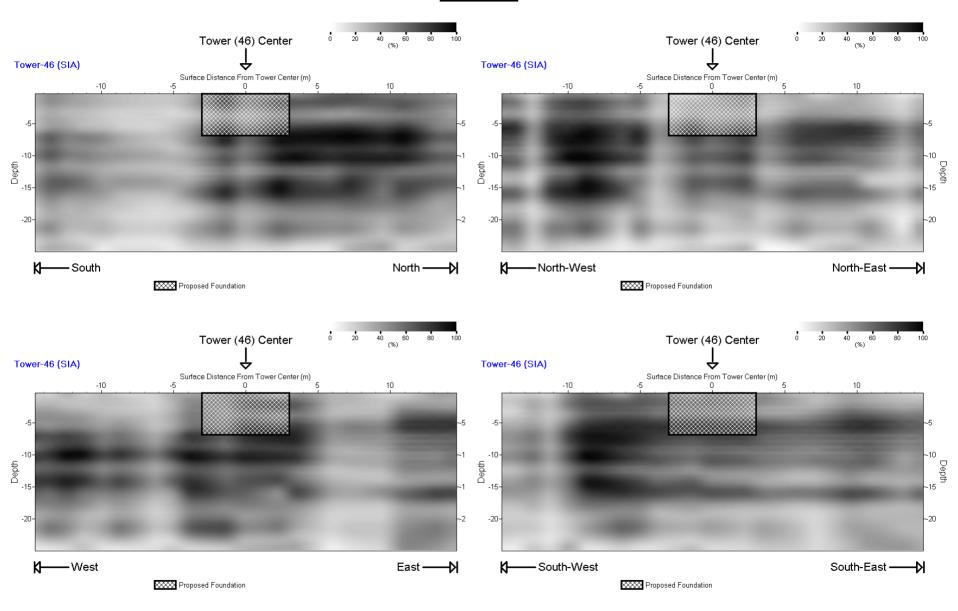


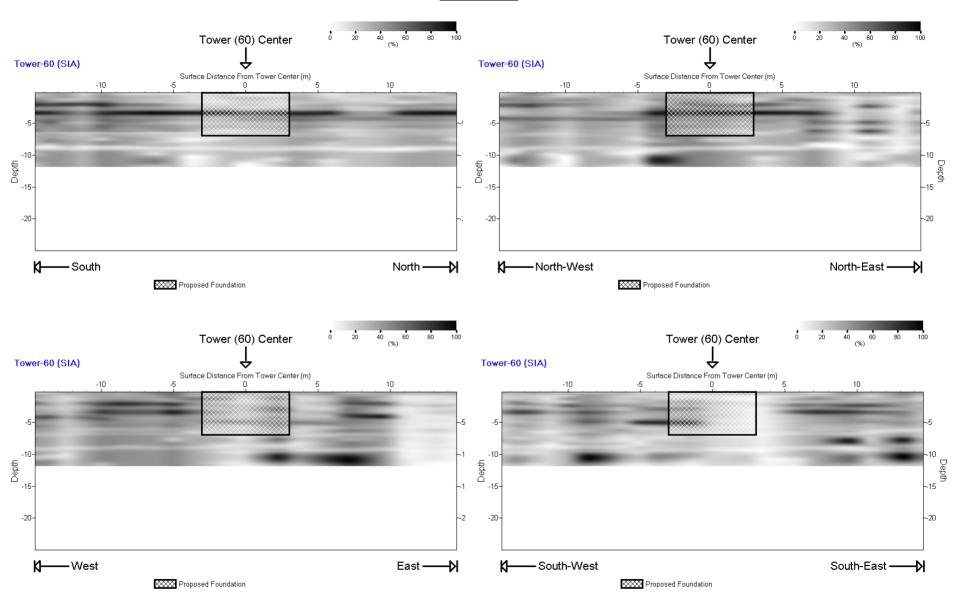




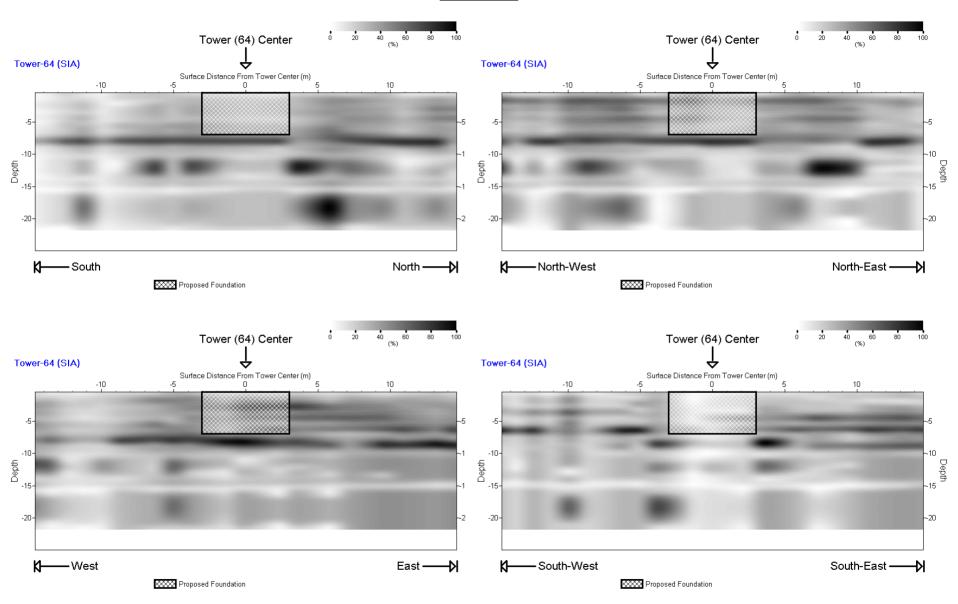
^{*}This is the approximate surface location of the anomaly interpreted on SSA and 2-D Vs images.

T-046

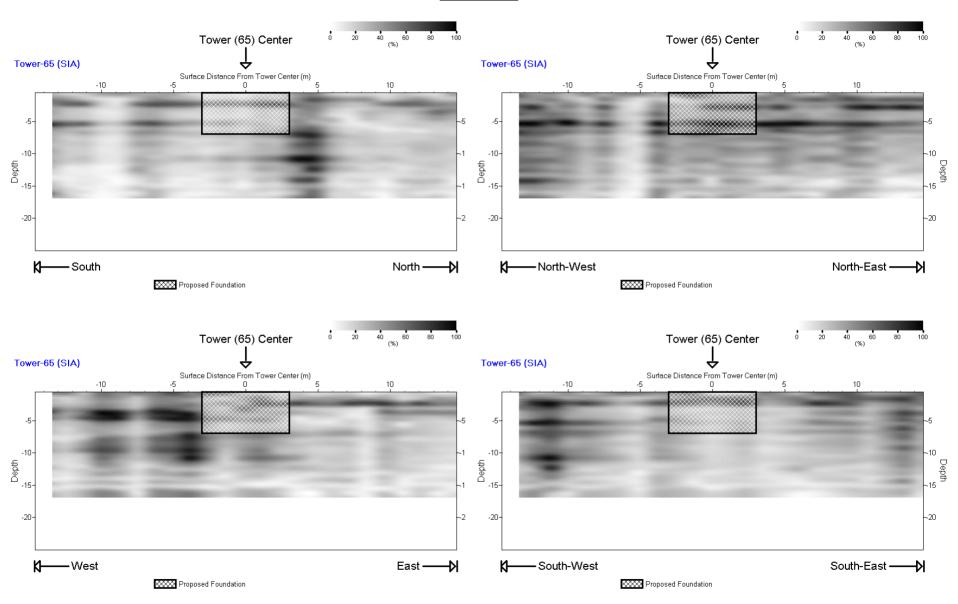




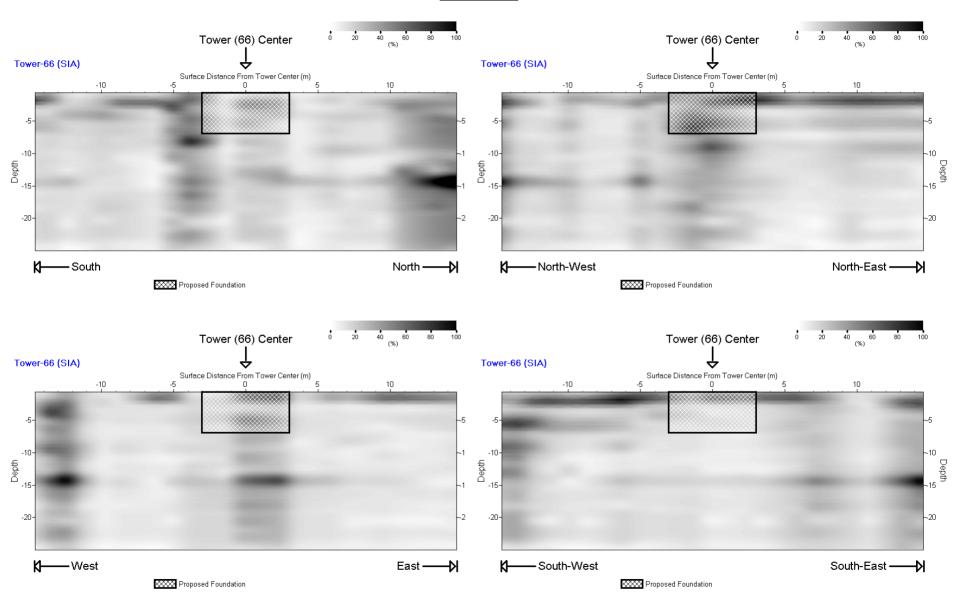
T-064



T-065



T-066



T-086

