

# Wire Stringing Field Guide

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<b>Guard Structures</b>	Verify guard structures are in place at all road and energized crossings.
	Ensure guard structures are of sufficient size and height to protect crossings.
<b>Grounding</b>	Verify that running grounds are utilized at the tensioner and puller ends when necessary.
	Confirm grounded blocks are in place at the first and last structure of the pull.
	Verify grounding mats are properly placed around equipment.
	Confirm pulling equipment is properly barricaded for step and touch potential.
	Ensure stringing equipment is grounded and bonded together to maintain equal potential.
<b>Energized Crossings</b>	Ensure a non-reclose order is in effect for all energized crossings.
	Confirm the presence of grounded travelers at all energized crossings.
	Confirm sufficient cover-up is installed at all energized crossings.
<b>Equipment Stability</b>	Verify equipment is securely anchored to prevent movement during pulling operations. (If anchor is outside of EPZ area an insulated link shall be used.)
	Ensure the distance between stringing equipment and structures maintains a 3:1 ratio.

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<b>Equipment &amp; Tools</b>	Verify that stringing equipment is rated for the required pull and tension.
	Ensure stringing equipment is rated for the wire size and length of the pull.
	Ensure dollies are the right size per the conductor proposed to be pulled.
	Inspect pulling ropes to ensure they are in good condition and rated for the pull.
	Confirm that Kellum grips are in good condition and rated for tension.
	Confirm the proper number of bands are installed on all Kellum grips.
	Ensure the correct-sized Kellum grips have been selected for the job.
	Verify crews accounted for a factor of safety with tooling (Kellum grips 5:1, swivels 3:1).
	Verify that swivels are in good condition and properly rated.
<b>Traffic &amp; Permits</b>	Verify that traffic control is in place and compliant with MUTCD standards.
	Ensure required permits are current for all road, river, and railroad crossings.
	Confirm flagging operations are in effect for all road, river, and railroad crossings.
<b>Monitoring &amp; Personnel</b>	Verify a dedicated employee will monitor clearances during pulling operations.
	Verify a dedicated employee will watch wire sag over roadways.
	Ensure a dedicated employee will follow the swivel during pull operations.
<b>Communication</b>	Test radios and confirm a communication plan is in place.
	Ensure crew members are clear on communication terminology.
	Verify that the crew has a dedicated radio channel for wire pulling operations.
<b>Grip-Off &amp; Inspections</b>	Determine the duration the wire will be gripped or 'safetied' off.
	Identify which end will be hard siding and which will be soft siding.
	Assess whether temporary guy wires are needed.
	Establish the frequency of wire inspections after it has been gripped off.