



BROCHURE

TOTAL TRACKMONITORING

WILD IV

Installation & Operation Requirements

WILD SITE CONSIDERATIONS

TRACK SPEED

The faster a train is traveling when it passes a WILD site, the more pronounced a wheel defect's presence will be. Operating speeds at 30 MPH or greater are ideal to ensure that wheel defects produce a measureable increase in load compared to the nominal load of a wheel (which is attributed to vehicle weight).

NETWORK TRAFFIC

The more wheels a WILD sees, the more effectively it can identify wheel defects for targeted removal. Ideal WILD sites maximize the portion of the vehicle fleet that it sees on a regular basis.

GRADE

Significant grade often results in higher traction or braking, introducing new forces to the rail and reducing the likelihood of stable operation through a WILD site. Ideal sites have minimal grade.

TANGENT TRACK

Track curvature and superelevation common in curved track create uneven loading and wheel positions from rail to rail, skewing force measurement results. Ideal sites are tangent for at least the length of the longest expected consist.

TRACK COMPONENTS

Common track components such as joints, switch points, turnouts, frogs, and crossings present uneven riding surfaces for wheels or gaps in the rail, resulting in higher measured forces. Ideal WILD sites will have no track transitions or welds near the instrumented zone.

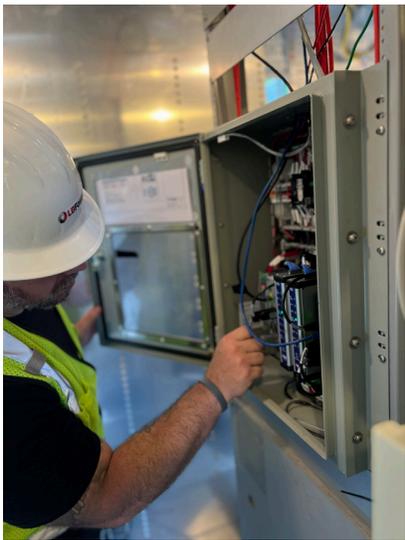
Trackside Equipment & Operating Specifications

Operating Speed	30 – 180 mph (50 – 300 km/h)
Measurement Range	3 – 250 KIPs (13.35 KN –1,112 KN)
Resolution	100 lb. (445 N)
Measurement Zone	50 ft. (16 m) standard Other configurations available.
Rail Fastener Spacing	24" ± 0.125" 26" ± 0.125"
Power	100 watts (~4 amps @ 24 VDC)
System Operating Temperature	-40° to 158°F (-40° to 70°C)
Suitable Rail Types	115RE, 133RE, 136RE, 141RE Standard. Other rail types available upon request.
IP Rating	IP67

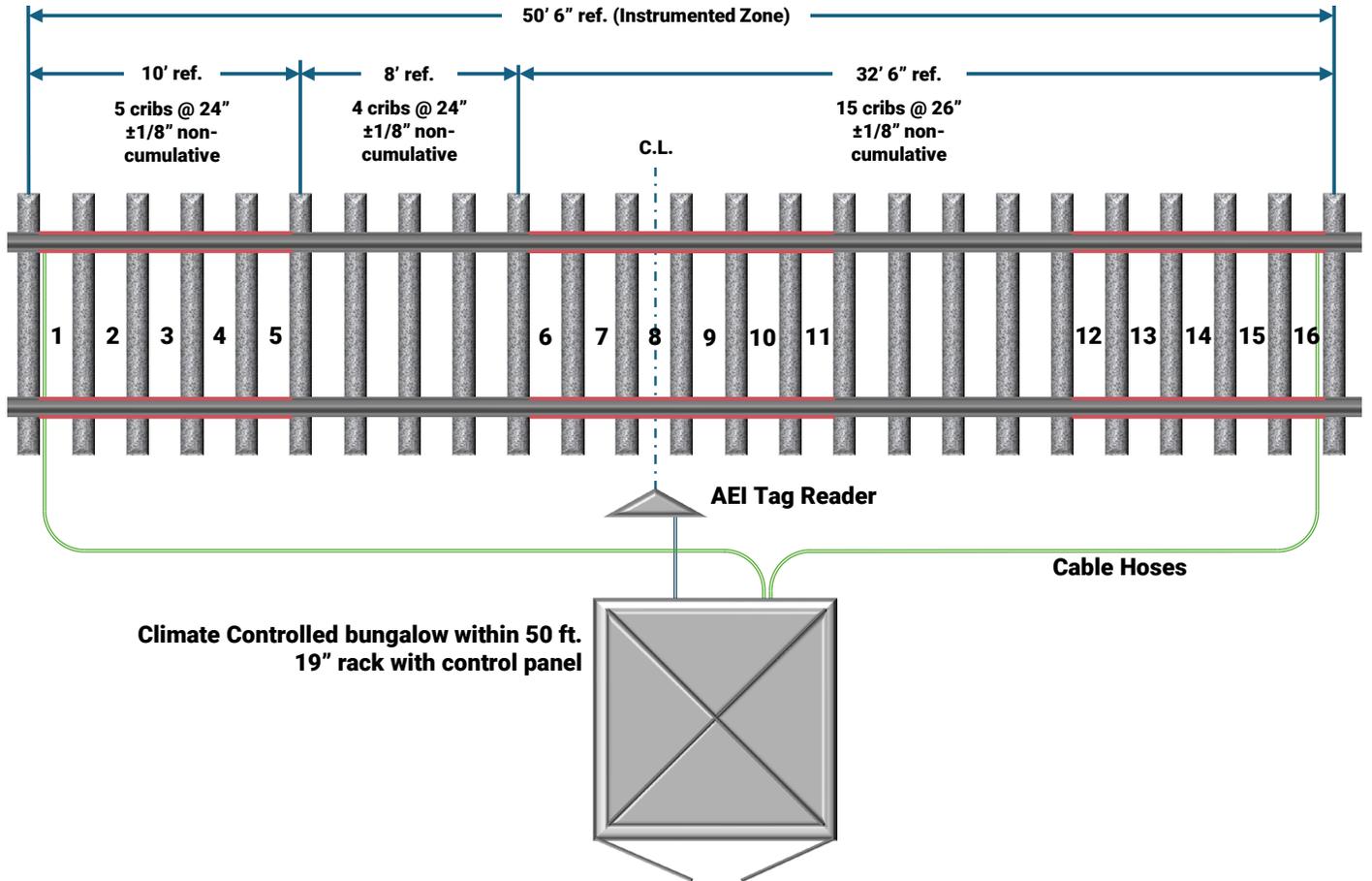


Bungalow & Control Cabinet Specifications

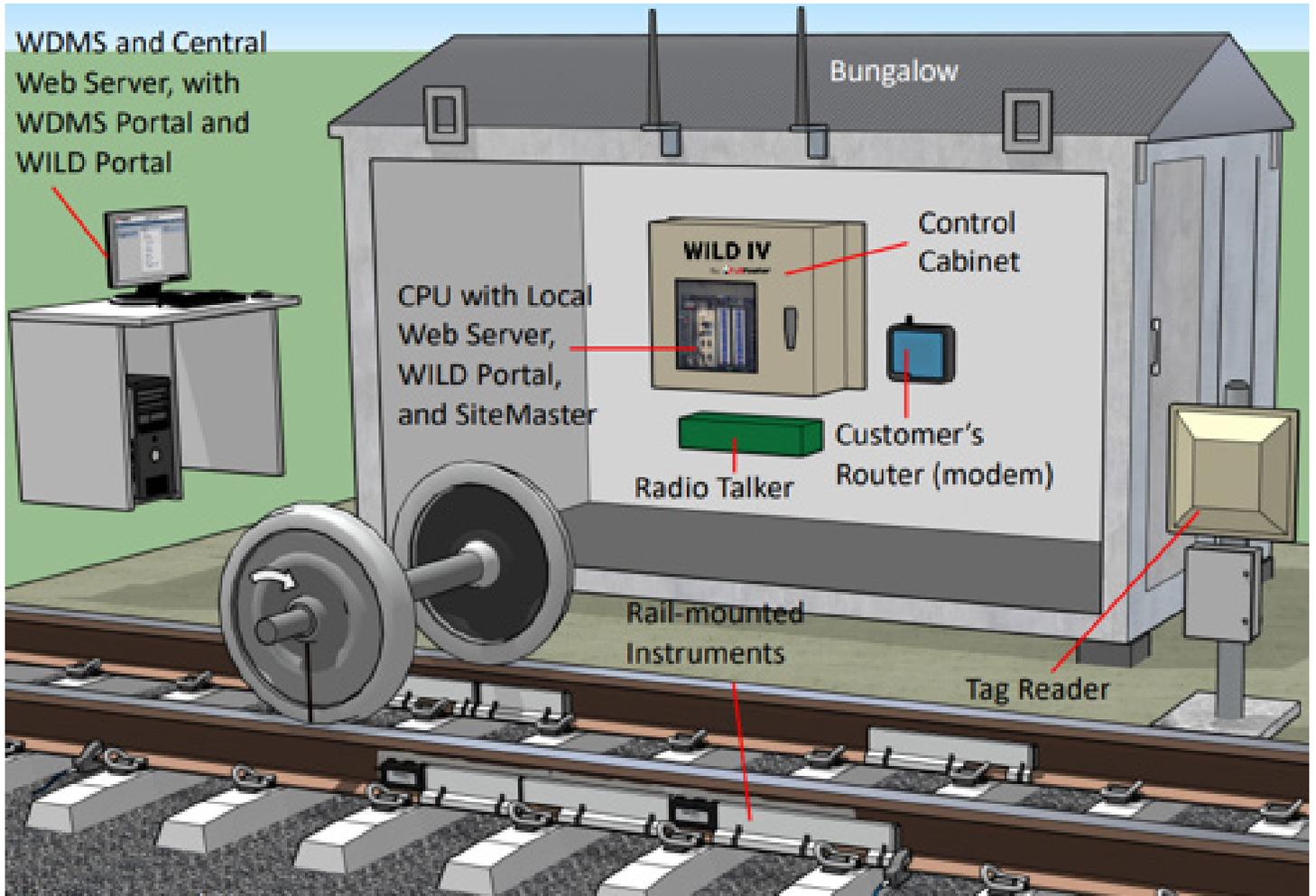
Recommended Minimum Bungalow Dimensions	6' x 8'
Distance from Tracks	<50 ft. from either end of WILD site.
Input Voltage	24 VDC (120/220 VAC upon request).
Control Cabinet Dimensions	20"H x 16"W x 8"D
Control Cabinet Operating Temperature	-4° to 131°F (-20° to 55°C)
Control Cabinet Mount Dimensions	14.5" to 17," 0.0625" increments
Communication Protocol	Ethernet port to user communications network
IP Rating	IP65



Example Site Layout



Note: Site layout shown is for a typical system. Number, location, and spacing of instrumented cribs, tag reader location, and other dimensions may be subject to change following a site survey.





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