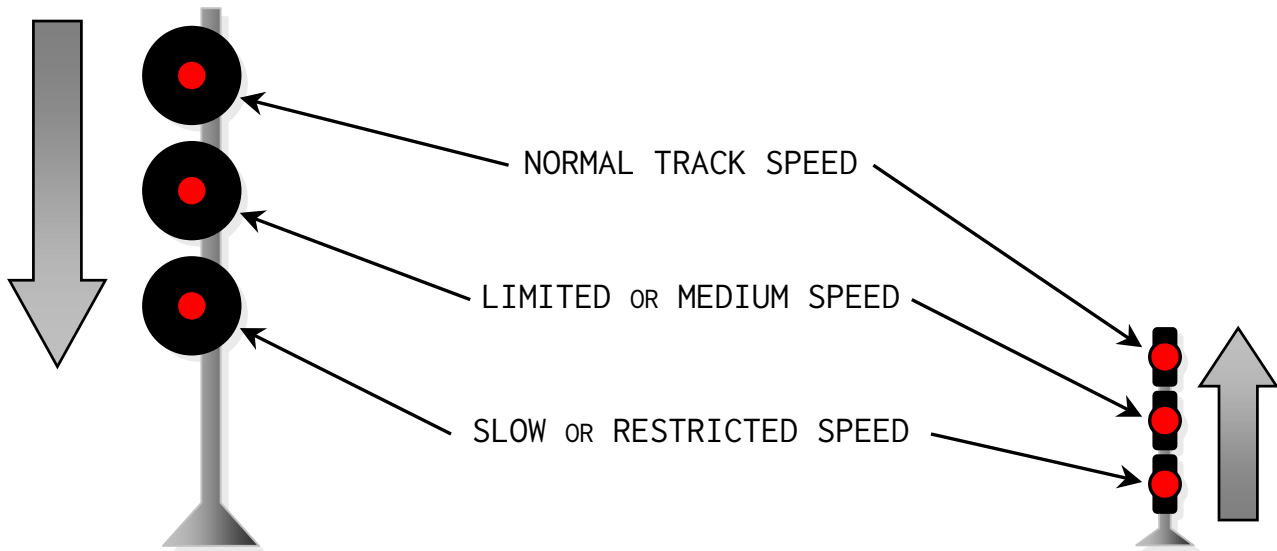


# BRUCE BRIDGES SIGNAL SYSTEM INDIANA NORTHERN RAILROAD SIGNAL ASPECTS

## SPEEDS BY HEAD



HIGH SIGNAL (MAST OR GANTRY)  
**TOP HEAD ALWAYS PRESENT.**

STEADY-RED SIGNAL HEADS BELOW ALL OTHER ASPECTS MAY BE OMITTED.

SECOND HEAD ON TWO-HEADED SIGNAL MAY BE DARK WHEN OTHERWISE STEADY-RED, AND THIS DOES NOT CHANGE THE SIGNAL'S INTENDED INDICATION. NO OTHER DARK SIGNAL HEADS ARE SPECIFIED.

ASPECTS FOR HIGH SIGNALS  
AND DWARF SIGNALS  
ARE THE SAME  
WITHOUT EXCEPTION

DWARF SIGNAL

**BOTTOM HEAD ALWAYS PRESENT.**

STEADY-RED SIGNAL HEADS ABOVE ALL OTHER ASPECTS MAY BE OMITTED.

NO DARK SIGNAL HEADS ARE SPECIFIED.

## REGULATION SPEEDS

Track speed..... *As posted*

Reduced speed..... Not exceeding 60 MPH (may also be referred to as Freight speed)

Limited speed..... Not exceeding 45 MPH

Medium speed..... Not exceeding 30 MPH

Slow speed..... Not exceeding 15 MPH

Restricted speed..... Not exceeding a speed that allows a full stop before passing a distance half the range of sight head, or Slow speed, whichever is less, and prepared to stop at any time upon sight of occupied track, broken rail, misaligned switch, Stop signal, etcetera in the path of the train ahead.

## OPTIONS

- Lunar White aspect may be replaced by Flashing Red aspect as needed.
- LIMITED ADVANCE APPROACH aspect (281-I) may be replaced with LIMITED APPROACH MEDIUM aspect (281-F).
- MEDIUM ADVANCE APPROACH aspect (283-D) may be replaced with MEDIUM APPROACH MEDIUM aspect (283-A).
- LIMITED APPROACH RESTRICTING aspect (281-J) may be replaced with LIMITED APPROACH aspect (281-D).
- MEDIUM APPROACH RESTRICTING aspect (283-E) may be replaced with MEDIUM APPROACH aspect (286).

INDIANA NORTHERN RAILROAD SIGNALING SCHEMA DESIGNED BY BRUCE BRIDGES, WITH EXTENSIONS AND SUGGESTIONS FROM JOSEPH HOEVET.

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# BRUCE BRIDGES SIGNAL SYSTEM / INDIANA NORTHERN SIGNAL ASPECT MATRIX

		SPEED AT <b>NEXT</b> SIGNAL							SPEED AT <b>SECOND</b> SIGNAL					
		NORMAL	REDUCED	LIMITED	MEDIUM	SLOW	RESTRICTING	STOP	LIMITED	MEDIUM	SLOW	RESTRICTING	STOP	
SPEED AT <b>THIS</b> SIGNAL	NORMAL													
	LIMITED		NOT APPLICABLE						NOT APPLICABLE					
	MEDIUM		NOT APPLICABLE						NOT APPLICABLE					
	SLOW		NOT APPLICABLE						NOT APPLICABLE					
	RESTRICTING													
	STOP													

INDIANA NORTHERN RAILROAD OPERATING RULES, REVISED 25 JULY 2007

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RED ASPECT  
 LUNAR WHITE ASPECT  
 AMBER ASPECT  
 GREEN ASPECT  
 UNLIT SIGNAL HEAD  
 STEADY-LIT SIGNAL HEAD  
 FLASHING SIGNAL HEAD

**HIGH SIGNALS:** Top-most head is present on all signals. Two-headed signals may have lower, steady-red head be dark on "Normal" signal aspects.

**DWARF SIGNALS:** Aspects are the same as High signals. Lower-most head is present on all Dwarf signals. No dark heads are specified.

**SPEEDS:** Reduced-60MPH; Limited-45MPH; Medium-30MPH; Slow-15MPH; Restricted-Able to stop within half distance of vision, but not exceeding Slow speed.

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# BRUCE BRIDGES SIGNAL SYSTEM / INDIANA NORTHERN SIGNAL ASPECT MATRIX

		SPEED AT NEXT SIGNAL						SPEED AT SECOND SIGNAL							
		NORMAL	REDUCED	LIMITED	MEDIUM	SLOW	RESTRICTING	STOP	LIMITED	MEDIUM	SLOW	RESTRICTING	STOP		
SPEED AT THIS SIGNAL	NORMAL	281 	282-c 	281-b 	282 	284 	285-A 	285 	281-H 	282-B 	281-B 	284-A 	282 	282-A 	282-A 
	LIMITED	281-c 	NOT APPLICABLE	281-E 	281-F 	281-G 	281-J 	281-D 	NOT APPLICABLE	281-E 	281-F 	281-I 	281-F 	281-I 	281-F 
	MEDIUM	283 	NOT APPLICABLE	283-c 	283-A 	283-B 	283-E 	286 	NOT APPLICABLE	283-c 	283-A 	283-D 	283-A 	283-D 	283-A 
	SLOW	287 	NOT APPLICABLE	287-A 	287-A 	287-B 	288 	288 	NOT APPLICABLE	287-A 	287-A 	287-A 	287-A 	287-A 	
	RESTRICTING	290 	290 	290 	290 	290 	290 	290 	290 	290 	290 	290 	290 	290 	290 
	STOP	291/292 	291/292 	291/292 	291/292 	291/292 	291/292 	291/292 	291/292 	291/292 	291/292 	291/292 	291/292 	291/292 	291/292 

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