



WIRELINING CROSSING AND ENCROACHMENT SPECIFICATIONS

UNDERGROUND WIRELINE CROSSINGS

1. Must be a minimum of 5'6" feet below base of rail.
2. Must be enclosed in casing or conduit adequate to protect the line.
3. Wherever located on railroad right-of-way outside the track ballast section, the following are minimum burial depths below ground line:

<u>Line Voltage</u>	<u>Depth Below Ground Line</u>
0-600	24 inches
601 - 22,000	30 inches
22,001 - 40,000	36 inches
40,001 - Above	42 inches

OVERHEAD WIRELINE CROSSINGS

1. Must not be located within 300' of a bridge in either direction
2. Must not be attached to a company pole line or pole lines licensed to others except where specifically authorized.
3. All poles extending in height above ground equal to or greater than the distance from pole to end of cross line will be anchored and guyed against tipping toward track.
4. Guys will be guarded to a distance of 8' above ground line and the guards shall be orange in color.
5. All clearances and safety provisions are subject to the applicable National and State codes. Provisions of that portion of the National Electric Safety Code (American National Standard Institute) pertaining to railroads apply.

GENERAL NOTES

1. All power or communication line crossings are subject to license agreements with the railroad company.
2. All clearances and safety provisions are subject to the applicable national and State Codes. Provisions of that portion of The National Electrical Safety Code (American National Standard Institute) pertaining to railroads apply.



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OVERHEAD WIRELINE CLEARANCE CHART

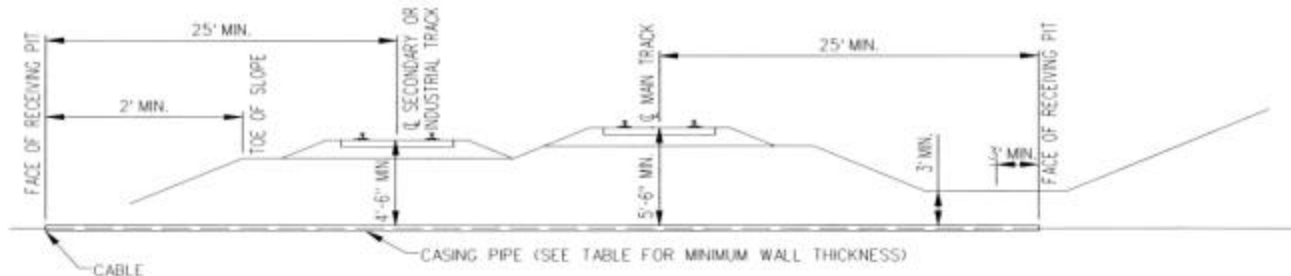
FORMULA: .5" increase for every 1,000 volts in excess of 50 KV
6" increase for every 12,000 volts in excess of 50 KV

Voltage (to ground)	Minimum Clearance Required above top Of rail	Minimum Clearance (Including Static Wires) Required above Communication and Signal Lines
0 to 750	27'0"	4'0"
8,700	28'0"	4'0"
15,000	28'0"	6'0"
50,000	30'0"	6'0"
74,000	31'0"	7'0"
98,000	32'0"	8'0"
122,000	33'0"	9'0"
146,000	34'0"	10'0"
170,000	35'0"	11'0"
194,000	36'0"	12'0"
218,000	37'0"	13'0"
242,000	38'0"	14'0"
266,000	39'0"	15'0"
290,000	40'0"	16'0"

***THESE CLEARANCES ARE TO INCLUDE ALL TRACKS OPERATED AS MAIN TRACKS,
SIDINGS, AND OTHER AUXILIARY TRACKAGE.***

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CABLE CROSSING



ALL MINIMUM DIMENSIONS MEASURED NORMAL TO ϕ OF OUTSIDE TRACK.

NOTE: LOW VOLTAGE CABLE SUCH AS TELEPHONE OR CABLE TV MAY BE INSTALLED IN PVC CARRIER PIPE.

MARKING OF BURIED POWER CABLES ON RAILROAD RIGHT OF WAY

CABLE ROUTE MUST BE MARKED AT EDGE OF RIGHT OF WAY WHERE CABLE ENTERS OR LEAVES RAILROAD PROPERTY. IN CASES OF PARALLEL CABLE ROUTE, SIGNS AS INDICATED IN FIGURE 1 ON THIS EXHIBIT WILL BE PLACED APPROXIMATELY EVERY 200 FEET. SIGNS TO BE OF A PERMANENT VERTICAL TYPE, NOT SMALLER THAN 5 INCHES WIDE BY 12 INCHES HEIGHT. YELLOW BACKGROUND WITH BOLD BLACK LETTERING. SIGNS TO BE MOUNTED ON METAL POSTS OR AS OTHERWISE AGREED TO AT A HEIGHT OF 3 FEET ABOVE GROUND LEVEL.

