



Iowa Department of Transportation

SPECIAL PROVISIONS FOR RAILROAD TRACK

Clinton County
ESL-000R(3)--7S-23

Effective Date
January 20, 2010

THE STANDARD SPECIFICATIONS, SERIES OF 2009, ARE AMENDED BY THE FOLLOWING ADDITIONS AND MODIFICATIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

090010.01 DESCRIPTION.

Railroad Track consists of ties, rails, and fastenings delivered in conformity with the contract documents.

090010.02 DEFINITIONS.

AREMA Specifications: Refers to the American Railway Engineering and Maintenance of Way Association Specifications, Volumes I and II, and Portfolio of Trackwork Plans.

090010.03 MATERIALS.

A. Rail.

141 pound relay rail. Rail shall meet or exceed AREMA Class I Specifications. (AREMA Section 2.1 Specifications for Steel Rails).

Rail Grading Classifications			
Rail Weight (Class I) pounds	Maximum Rail Wear Horizontal and Vertical inches	Gage inches	Rail Condition
141	0	0.5	Corrugation up to 0.010

B. Fastenings:

1. Tie Plates.

Shall be new, and double shouldered plates shall be no smaller than two times the base of the rail. Track shall be fully plated. The use of single shouldered tie plates is prohibited. Refer to UP drawing 0442C, 1 of 2, for details and item numbers.

2. Track Bolts.

Shall be new, appropriately sized for the bolt holes in the rail section with length sufficient for a full nut and heavy-duty spring washers (new). Refer to UP drawing 0950G for details and item numbers.

3. Track Spikes

Shall be new 5/8 inch by 6 inch or 5/8 inch by 6.25 inch and installed as shown in the contract documents. Refer to UP drawing 130005 for details and item numbers.

4. Rail Anchors.

Shall be new, box anchored every other tie. All switch ties shall be completely box anchored. For crossties that use elastic fasteners, rail anchors are not required. Refer to UP drawings 0460D and 0457A jointed rail for details and item numbers.

5. Insulated Joints/I Bonds.

Shall be furnished by the Contractor and shall be all new material. Insulated joints/I bonds shall be furnished by the Contractor as shown in the contract documents and at locations designated by Union Pacific's authorized representative. Refer to UP drawing 0960J for details and item numbers.

C. Timber Ties.

Shall be 7 inch x 9 inch variable lengths ties. The tie lengths and types are identified by panel on UP drawings 345000 through 345003. Ties shall meet or exceed the requirements of the AREMA Specifications for Timber Ties (AREMA Section 3.1 Timber Cross Ties and Section 3.2 Timber Switch Ties).

1. Only new creosoted Oak ties shall be used for new construction.
2. Only new timber-creosoted switch ties shall be used to accommodate turnout pattern.

D. Concrete Ties.

Shall be according to the width and depth requirements shown on UP drawing 0204B. Length requirements per UP drawings 5048A, 1 of 5 through 5 of 5.

1. Continuous welded rail is recommended for use with concrete ties.
2. Concrete switch ties may be used where concrete standard ties are used.
3. Concrete ties must be new ties produced in accordance with Union Pacific's Concrete Tie Specifications for Construction.

E. No. 15 Hollow Switch TIF Assembly

New tie assemblies to be manufactured in accordance with the latest revision of the Union Pacific Specifications. Details and item numbers in accordance with UP drawing 1600, 1 of 2 and 2 of 2.

090010.04 MATERIAL ASSEMBLIES.

A. East Mainline turnout. (All materials shall be new)

1. No. 15 right hand turnout, 141 pound track, in concrete ties and spring rail frog, for power operation. Details and item numbers shown in UP Exhibit F, and UP drawing 5048A, sheets 1 of 5 through 5 of 5.
2. Material (rail, ties, and fasteners) for 60 feet of track 136#RE, w/ concrete ties (UPRR Item No. 503-1730), 26 inches on center.

B. West Mainline turnout. (All materials shall be new)

1. One No. 15 left hand turnout, 141 pound track, with concrete ties and spring rail frog, for power operation. Details and item numbers shown in UP Exhibit F, and UP drawing 5048A, sheets 1 of 5 through 5 of 5.
2. Material (Rail, ties, and fasteners) for 60 feet of track 136#RE, w/ concrete ties (UPRR Item No. 503-1730), 26 inches on center.
3. One 39 foot transition track panel, 141 pound track, with 7 inch x 9 inch x 10 foot ties, 19.5 inches on center, with Safelok clips. Pre-plated 10 foot tie is UPRR Item No. 502-1020, Safelok Clip is UPRR Item No. 503-5100).
4. 39 foot transition track panel, 141 pound, with 7 inch by 9 inch by 9 foot ties, 19.5 inches on center, with Safelok clips. Pre-plated 9 foot tie is UPRR Item No. 502-9799, Safelok Clip is UPRR Item No. 503-5100.

090010.05 DELIVERY OF MATERIALS.

This portion of the project requires that the contractors deliver the materials identified for later use in construction of the switches, turnouts, and transitions by others. East Mainline Turnout materials are to be delivered to the East Turnout Pad. The West Mainline Turnout Materials are to be delivered to the West Turnout Pad.

All materials and assemblies identified in the contract documents to be acquired by the Contractor and delivered to the site shall be purchased from Vendors approved by the Union Pacific Railroad. Vendors with the appropriate UPRR approvals are:

Cleveland Track Material

Contact: Ted Reilly
Telephone: 901.948.7000
Email: tereilly@cleavelandtrack.com
Website: www.cleavelandtrack.com

Nortrak

Contact: Gord Weatherly
Telephone 307.633.8204
Email: gweatherly@nortrak.com
Website: www.voestalpine.com/nortrak/en.html

Progress Rail

Contact: Pat Reilly
Telephone 901.360.9895
Email: preilly@progressrail.com
Website: www.progressrail.com

090010.06 METHOD OF MEASUREMENT.

The method of measurement will be the final count of all materials identified in the UP drawings and parts lists, to complete both the No. 15 power operated right hand turnout, and left hand turnout.

090010.07 BASIS OF PAYMENT.

For the assemblies identified, the Contractor will be paid the contract unit price per each. This payment shall be full compensation for all ties, fasteners, rail, accessories, and for furnishing all material, equipment and labor necessary to deliver the No. 15 right hand turnout and left hand turnout to the locations identified in the plan drawings.