

## **SECTION 20200**

### **TRACK REMOVAL AND SALVAGE**

#### **PART 1 – GENERAL**

##### **1.01 DESCRIPTION**

- A. Section includes specifications for salvage and removal of existing track, special trackwork, and other track materials (OTM).
- B. The work of this Section may require signal support and testing if removal of existing track involved signal equipment and components.

##### **1.02 REFERENCES**

- A. American Railway Engineering and Maintenance of Way Association (AREMA):
  - 1. Manual for Railway Engineering (Manual)

##### **1.03 SYSTEM DESCRIPTION**

- A. Perform work on this Section in accordance with applicable provisions of the AREMA Manual.
- B. Engineer has the right to review and inspect all records and reports for track material salvage and removal at anytime between commencement and completion of the Work.

##### **1.04 SUBMITTALS**

- A. Submit proposed salvage and removal methods and schedule, including personnel and equipment; schedule shall be consistent with SSWP specified in Section 01011, Work Planning.
- B. Submit product data for marking paint.
- C. Submit completed Track Material Inventory forms for all salvaged and removed materials except ballast. See Attachment 20010-A, found at the end of this Section.
  - 1. Include completed inventory forms for turnout components including ties. Utilize forms similar to the attached form, as required and accepted by the Engineer.

#### **PART 2 – PRODUCTS**

##### **2.01 DUNNAGE**

- A. Pallets, sills, and other materials used for packaging and stacking of unused salvaged track items shall be clean, free of decay or other defects, and sufficiently sturdy for the service intended.

## **2.02 MARKING PAINT**

- A. Marking paint shall be a good quality spray marking paint or a good quality paint marker as approved by the Engineer.

## **PART 3 – EXECUTION**

### **3.01 VERIFICATION**

- A. Prior to commencement of removal and salvage, verify the removal and salvage quantities and storage locations.

### **3.02 SALVAGE AND REMOVAL OF TRACK MATERIALS**

- A. Salvage timber ties that Engineer determines to be in good condition, otherwise remove.
- B. Salvage turnouts as indicated in the Contract Drawings.
- C. Salvage joint bars, tie plates, bolts, nuts and washers (OTM), along with salvaged trackwork.

### **3.03 SALVAGE OF CWR TRACK**

- A. Salvage existing continuous welded rail (CWR) as indicated on Contract Drawings for track construction. Reuse where indicated; if reuse is not required, rail may be cut to manageable lengths and haul to storage area and stockpile as specified herein or as required by the Engineer.
- B. Handle rail by roller tongs or other methods that will not result in damage to the rail. Do not drop rail on uneven surfaces nor leave them unevenly supported.
- C. Move CWR on rollers. Do not drag along the ground or across crossties.
- D. Do not cut salvaged CWR. Cutting of CWR is permitted only for fitting within limits of track construction. Use only rail saw or abrasive rail cutting wheel to cut CWR. Other methods for cutting rail will not be accepted. Cuts shall be square and clean.
- E. A single handling hole may be drilled in the ends of CWR. Drill hole at 9 inches or 15 inches from the end of the rail to suit joint bar hole spacing. Remove hole prior to installation of CWR. Drilling and cutting rail as described in Section 20400, Track Construction, under Drilling and Cutting of Rail.
- F. Remove ties, tie plates and other OTM not suitable for reuse as determined by the Engineer.

### **3.04 SALVAGING TRACK IN PANELS**

- A. In areas of existing CWR, the Contractor will be required to temporarily replace the CWR with owner-furnished 39 feet long jointed rail. The jointed rail shall be installed with squared joints in order to remove the track in panels. The removed CWR shall be handled in accordance with Caltrain Standard Specifications, so as to prevent

damage to the rail. Existing CWR will generally be reused unless otherwise indicated in the Contract Drawings or directed by Engineer. CWR shall not be cut unless authorized by Engineer.

- B. In areas of existing jointed rail, which is staggered, the Contractor will be required to square up the rail joints in order to remove the track in panels. This will require cutting and moving of the rail on one side of the track.
  - 1. Do not torch cut rail or holes. Rail sections less than 15 feet in length are not allowed.
  - 2. Rail joints must be bolted with at least 4 bolts, 2 per rail end. Broken bolts must be replaced when found, and all bolts must be kept tight allowing no vertical rail movement in the joints.
  - 3. All trackwork done as required to remove existing track in panels shall be performed in accordance with Caltrain Standard Specifications.
  - 5. Do not reuse existing rail anchors. Install new rail anchors on the jointed rail based on the anchoring pattern specified in Caltrain Standard Drawings. Prior to panel removal, install two (2) anchors per tie to the shoulder and joint ties with full bearing against the side of tie. Do not overdrive, as this may fracture or spread the metal, resulting in less holding power. Replace any rail anchor that is fractured or spread.

### **3.05 CLEANING OF TRACK MATERIALS**

- A. Sufficiently clean and then inspect track materials, except ballast, designated for salvage or reuse to ensure that no damage or significant corrosion exists.
- B. Clean rail and joint bars by hand or mechanical means to remove dirt, and sort and haul them to the storage area indicated on the Contract Drawings or designated by the Engineer.

### **3.06 STORAGE AND HANDLING OF SALVAGED TRACK MATERIALS**

- A. Prevent damage to salvaged materials during salvage operation, handling, and storage.
- B. Properly stack or contain salvaged track materials, in a neat fashion at the storage area designated by the Engineer.
- C. Where specifically required in the Contract Documents or when required by the Engineer, clean and set salvaged continuously welded rail (CWR) and OTM adjacent to track. Requirements for storage of salvaged track materials shall apply.
- D. Rail: Segregate salvaged jointed rail by rail section and length. Support bottom layer of rail on crossties evenly spaced. Locate rail piles in well drained sites with base of rail separated from ground surface. Separate each layer by at least three 2 x 4 inch wood strips evenly spaced for each 39 feet of rail. Stack rail in pyramid form with each tier of rail to be offset inward by one half the width of the rail base. Stacks shall be maximum height of 4 feet and maximum width of 15 feet at the base or as

directed by the Engineer. Stack rail with the heads up and with the rail ends square and even. Locate rail stacks in areas safely accessible by forklifts, cranes with rail tongs, and other equipment.

- E. Turnouts: Disassemble, clean, palletize, box, place in drums salvaged turnouts, securely to prevent loss and damage during transport and storage. Clearly mark the contents of each individual package with a securely attached, weatherproof label.
- F. Joint Bars: Sort joint bars by rail section and joint bar length, and stack on pallets. Steel band each pallet for forklift handling.
- G. Tie Plates: Sort by size (length and rail base width), stack, and band on pallets for forklift handling.
- H. Nuts, Bolts, and Washers: Sort and store in nylon sacks and on pallets.
- I. Timber Ties, General: Stack cross ties neatly and securely in bundles of 12 (3 ties high, 4 ties wide), band with three 1-1/4 inch bands, and space evenly for forklift handling. Plug all spike holes with tie plugs. Stack to a maximum of 3 bundles high and stockpile at the storage area shown on the Contract Drawings or where designated by the Engineer.
- J. The maximum weight of any pallet with any material shall be 1,500 pounds.

### **3.07 REMOVAL OF TRACK MATERIALS**

- A. Where track and track materials are designated on the Contract Drawings or specified in this Section to be removed, remove from the work site and dispose of in accordance with the Contract documents.

## **ATTACHMENT FOLLOWS**

**ATTACHMENT 20200**

**INVENTORY OF MATERIALS SALVAGED, STORED, REUSED, AND REMOVED**

Item No.	Item (Description)	Location Removed	Quantity	Unit	Date Removed	Date Placed in Storage Area	Quantity Reused	Location Used	Date Used	Remarks

**END OF ATTACHMENT  
END OF SECTION**