

Attachment 2

ATTACHMENT A SCOPE OF SERVICES Inspection of UPRR - Santa Cruz Industrial Lead (Revised June 13, 2006)

Task 1. Project Management and Administration

HNTB will perform activities necessary to plan, direct, coordinate the work, and provide progress reporting.

- a. Supervise, coordinate, monitor inspection activities, and inspection reporting activities.
- b. Attend meetings with SCCRTC, UPRR and other Agencies as needed. A maximum of 2 meetings is proposed.
- c. Prepare monthly progress reports and invoices.
- d. Prepare project schedule and provide updates.
- e. Administration and Document control.
- f. Quality Assurance/Quality Control in accordance with HNTB's Northern California Best Practices QA/QC Manual.

Task 2. Data Collection and Document Review

HNTB will collect and review all existing data furnished by SCCRTC, UPRR, and other Agencies. At a minimum, HNTB will review the following information:

- a. UPRR Track Charts
- b. UPRR Valuation Maps
- c. UPRR Bridge Book and Maintenance Records
- d. Report Prepared by Woodside Consulting Group
- e. UPRR Public and Private Road crossing listing and record information
- f. Other pertinent information furnished by SCCRTC or UPRR
- g. Last UPRR Track Geometry car inspection
- h. Last UPRR Track Rail Detector car inspection

HNTB will work with SCCRTC and UPRR to obtain copies of the above information and reports. The proposed fee is contingent upon access to the information indicated above, and the inability to review the information may require an increase in the proposed fee. HNTB understands that the other information listed above in (b), (g), and (h) may not be available, and the proposed fee is not contingent upon access to those items.

Task 3. Field Inspection

HNTB will perform a field inspection of the UPRR Santa Cruz Industrial Lead:

Field Inspection to extend from Watsonville Junction (MP 0.0) to the end of the Industrial Lead near Davenport (MP 31.90)

Inspection will include the condition and assessment of the track and other improvements on the rail line.

- Grade Crossing and Signal Inspection:
Inspect grade crossing for type and condition
Inspect Crossing Warning Systems Type and condition
- Track Inspection including the following components of main track, sidings, and spurs to right-of-way line:
Inspect Rail
Inspect Ties
Inspect Ballast
Inspection of OTM (Tie Plates, Joint Bars, Rail Anchors and Spikes)
Inspection of Special Trackwork (Turnouts, etc)
Inspect Track Alignment
Signage
- Track Roadbed Inspection including the following components:

Inspect Geotech issues regarding cut and fill slopes for potential maintenance issues that may affect rail operations along the Right-of-Way
Inspect Drainage facilities adjacent to Rail line
Inspect Vegetation control

The following field inspection activities will be performed:

- a. Preparation for field work.
- b. Take a digital video of the Santa Cruz Industrial Lead. It is anticipated that a 1 day effort will be required to take a digital video by a 2 person team of the line from high rail vehicle (High rail and flagman provided by UPRR)
- c. Inspect Track and Roadbed visually for condition. Conditions will be documented and at selected locations photographed. Inspection notes to be noted by MP location. Anticipated effort is expected to take 8 days by walking the line with a two person inspection team. Flagman provided by UPRR.
- d. Inspect grade crossing warning system for type and condition. Each box, case, cabinet, or enclosure shall be opened for a visual inspect of equipment type and condition. Inspection is anticipated to take 12 days by a one person inspector. (Flagman provided by UPRR)
- e. Prepare field inspection notes, for reporting.
- f. Photograph each crossing, the major track, and the major roadbed features to document existing conditions.

Field review shall be limited to non-destructive visual observation of existing conditions. Field measurements will be performed as needed to establish items inspected and to determine existing conditions.

Below ground Geotechnical investigations will not be performed as part of this work.

Task 4. Report Preparation

HNTB will edit and prepare the video record of the Santa Cruz Industrial Lead with call outs for major grade crossings, bridges, turnouts, and other important features all referenced by MP location.

HNTB will prepare a Track, Roadbed, and Grade Crossing Assessment and Repair Report which will document the condition of the railroad features listed in this proposal for future operational requirements. It is anticipated that a minimum of a Class II track condition will be addressed in the report as a required minimum physical condition. A Draft Track, Roadbed, and Grade Crossing Assessment and Repair Report will be prepared for review and comment by SCCRTC. Comments will be incorporated into a Final Track, Roadbed, and Grade Crossing Assessment Report and distributed to SCCRTC. The Report will include the following sections:

- a. Executive Summary
- b. Introduction
- c. Background
- d. Project Need and Purpose
- e. Assessment Methodology
- f. Grade Crossing Warning Assessment
 - Field Findings Assessment
 - Recommended items for an immediate repair and long term repair plan
 - Cost estimate for short term (5yr) costs, long term costs, and annual maintenance costs
- g. Track Assessment
 - Field Findings Assessment
 - Recommended items for an immediate repair and long term repair plan
 - Cost estimate for short term (5yr) costs, long term costs, and annual maintenance costs
- h. Track Roadbed Assessment
 - Field Findings Assessment
 - Recommended items for an immediate repair and long term repair plan
 - Cost estimate for short term (5yr) costs, long term costs, and annual maintenance costs
- i. Summary, Conclusions, and Recommendations
- j. Appendix A: Grade Crossing Warning Field Notes and Photographs

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- k. Appendix B: Track Field Notes and Photographs
- l. Appendix C: Track Roadbed Notes and Photographs

Cost estimates to include the near term and long term repair or rehabilitation cost of facilities and the recurring annual maintenance. All construction cost estimates will be for planning level purposes and will be developed on a unit price per item basis.

The report will be prepared in 8 ½" x 11" format. Ten (10) copies of the report will be submitted to SCCRTC. An electronic copy will be made available to SCCRTC in Microsoft Word and PDF format.

Work to be Performed by SCCRTC

- a. Coordination with other SCCRTC consultants, when needed.
- b. Review and Comment on Draft Assessment Report
- c. Approval of Final Assessment Report
- d. Community Relations
- e. Coordination with UPRR for UPRR Flagman and Hy-rail vehicle during field inspection work. Cost of UPRR Flagman and Hy-rail to be paid by SCCRTC.
- f. SCCRTC to obtain Railroad Protective Liability Insurance Policy with HNTB named as additional insured. Cost of Railroad Protective Liability Insurance Policy to be paid by SCCRTC.
- g. SCCRTC to obtain UPRR Right of Entry Agreement for field inspection work. Cost of UPRR Right of Entry Agreement to be paid by SCCRTC.
- h. Formal agreements with UPRR.
- i. SCCRTC to obtain any necessary permits related to the field inspection work and assessment report.

Materials, Information, and Data to be Provided by SCCRTC.

- a. Information on future operational uses, including any other anticipated uses.
- b. UPRR Track Charts
- c. UPRR Valuation Maps
- d. UPRR Bridge Book and Maintenance Records
- e. Report Prepared by Woodside Consulting Group
- f. UPRR Public and Private Road crossing listing and record information
- g. Other pertinent information furnished by SCCRTC or UPRR
- h. Last UPRR Track Geometry car inspection
- i. Last UPRR Track Rail Detector car inspection
- j. Other available pertinent information, data, and reports about the surrounding area.