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Illinois High Speed Rail Project – Tiers 6 & 7 Bid Package Summary

The Union Pacific Railroad (UPRR) plans to issue a Request for Proposal (RFP) for the Tiers 6 & 7 bid package on the Illinois High Speed Rail Project. The limits of the package are on the Union Pacific Railroad, Joliet Subdivision, between Joliet and Dwight, IL. The package includes reconstruction of existing siding, construction of new main track, construction of industrial tracks, grading, culvert replacements, bridge work, retaining walls, fencing and reconstruction of roadway crossings from MP 38.00 to MP 73.00.

Environmental Permitting and Right-of-Way Acquisition

The limits for this project were established and approved in the Tiers 6 & 7 Categorical Exclusion Environmental Document (Date to be determined.) The Contractor is responsible for complying with all requirements of permits for the project that the Owner/UPRR has obtained. Contractor is responsible for any and all permits not supplied by UPRR. All ROW is anticipated to be in place prior to the start of construction and contractor will not be responsible for obtaining easements.

Track and Civil Construction

1. *REMOVAL OF RETIRED SIGNAL FOUNDATIONS* - The work includes removal and disposal of existing signal foundations.
2. *REMOVAL AND DISPOSAL OF EXISTING TRACK* – The work includes removal and disposal of existing timber tie track at Dwight, Plaines, and Joliet.
3. *DISPOSE TRACK* – The work includes disposal of existing track removed by UPRR forces.
4. *GRADING & EROSION CONTROL* – The work includes various grading activities, such as clearing/grubbing, excavation, embankment construction, seeding, and subballast placement for the siding tracks, main tracks, setout tracks, industrial tracks, and access roads. Other work includes installation, maintenance and administration of the erosion control plan and storm water permit.
5. *TRACK CONSTRUCTION* – This work includes reconstructing a siding track at Dwight. This work also includes construction new double main track from Joliet to Braidwood and Braidwood to Mazonia comprised of 136 # CWR on concrete ties. This work also includes construction of industrial tracks at Plaines comprised of 136 # CWR on wood ties and set out tracks at Braidwood and Dwight comprised of 136 # CWR on concrete ties. UPRR will supply all track materials including rail, ties, fasteners, insulators, pads, and ballast.

6. *TURNOUT CONSTRUCTION* – This work includes installation of nine No. 9 HT Turnouts on Wood Ties and one No. 11 HT Turnout on Wood Ties at Plaines, one No. 11 HT Turnout on Concrete Ties at Braidwood. UPRR will supply all components of the turnout.

High Speed Rail Fence

Tiers 6 & 7 High Speed Rail Fencing consists of the installation of a combination of 3' tall and 6' tall ornamental and chain link fencing and gates. Limits of the fencing are primarily in the residential/urban areas with some fencing in rural areas.

Roadway Reconstruction

There are 31 at-grade crossings in this corridor with various levels of work. This work typically includes removal of approach pavement to the crossing panels and constructing a new pavement section within the UP or public ROW. Work also includes removing and installing drainage pipes and adjusting water valves and manhole lids to new grade. The Contractor will be required to coordinate with UPRR signal on the grading needed for new signal house and access drive locations. The Contractor will be required to coordinate temporary roadway closures with the local agencies and UPRR to minimize impacts to the public.

Structural Construction

1. *CULVERT CONSTRUCTION* – This work includes construction of new pipe culverts adjacent to existing culverts or bridge locations utilizing jack and bore, open cut or slip through methods of construction. The proposed culverts, ranging in size from 24" dia. to 90" dia., will be constructed under live railroad load with the existing track remaining in service during the duration of construction. End treatments will consist of standard UPRR riprap blankets unless noted otherwise in the construction documents. Minor incidental grading may be required to re-route existing drainage channels to the new culvert locations. Other culvert work includes extension of existing steel and reinforced concrete culverts, including a metal plate arch culvert. Other work includes plugging and filling existing culverts with Controlled Low-Strength Material.
2. BRIDGE SUPERSTRUCTURE REPLACEMENT AND SUBSTRUCTURE MODIFICATIONS
 - a. BR. 37.77 – Work includes construction of cast-in-place and precast concrete substructures and dual 42' TPG-BD spans with PSB approach spans. Substructure work will require repair to existing abutments, installation of micropiles and construction of short retaining walls to support elevated sidewalk beneath the bridge.
 - b. BR. 37.90 – Work includes construction of cast-in-place and precast concrete substructures and dual 42' TPG-BD spans with PSB approach spans. Substructure work will require repair to existing abutments and installation of micropiles.
 - c. BR. 44.45 – Work includes complete bridge replacement consisting of the construction of 1- drilled shaft supported cast-in-place concrete bent and 4- precast concrete bents supported on steel piling and erection of 2-steel beam spans and 2 prestressed concrete box beam spans.

- d. BR. 49.52 – This work includes installing twin bridges, each with 1 beam span and 2 precast concrete box girder spans. This work also includes placement of fill and installing drilled shaft foundations with rock sockets, cast-in-place concrete pier and abutment caps & precast concrete backwalls. This work also includes design and construction of a temporary jump span for abutment cap construction as well as removal of the existing bridge superstructure and removal of the existing abutment backwalls.
- e. BR. 62.73 - Work includes complete bridge replacement consisting of construction of driven pile bents with precast concrete elements and 3-steel BM-BD spans and 1-PCB span. Demolition of existing piers and abutments required.
- 3. *VARIOUS MODIFICATIONS AND UPGRADES* – This work includes modifying or repairing existing culverts at various locations. Proposed scope of work may include raising headwalls, adding handrail, placing riprap, repairing concrete or lining/extending existing culverts.
- 4. *RETAINING WALLS* – This work includes construction of two sheet pile retaining walls.