

Union Pacific Railroad - Public Projects Check Sheet

Project Name/ Date:

This check sheet must be filled out and included with all plan submittals. **Any requested exceptions must be submitted in a separate document with details regarding the necessity of the exemption requested.**

Yes/ No/NA	Description	Plans %	Comment
General			
	UPRR standard line styles & Symbols are used.	10%	
	Consultant has reviewed and acknowledged the Public Project Guidelines document.	10%	
	Scale, North Arrow are present on each sheet.	10%	
	Title block - Sub., MP Limits, City, State, Project Desc., Sheet Contents & Numbers shown on each sheet.	10%	
	Remove "Office of Assistant Vice President Engineering Design" from all title blocks & title sheet.	10%	
	Plans are based on survey Data. Datum is indicated on plans.	10%	
	Industries will remain connected during all phases.	10%	
	Submittal % and Date shown on plans. Note UPRR will determine plan % during plan review.	10%	
	Mainline stationing should coincide with VAL map stationing if available.	10%	
	Provide project schedule with each submittal.	10%	
	Provide electronic CAD design files with each submittal.	10%	
	UPRRs general notes are incorporated into plans. (available in .cel files found in UPRR Std. files)	25%	
	PUC requirements shown and noted in plans.	25%	
	Include Note: UPRR General Conditions and Specifications will be followed unless project specifications exceed and deviations are approved by UPRR Engineer.	25%	
	Note UPRR specifications will be used in their entirety, in their original format for all work on UPRR ROW. Any additional project specifications must be submitted for review.	25%	
	Submit Geotechnical report for UPRR review	25%	
	Plans include Quantity Summary table separated out by UPRR & Contractor. Template is available on the UPRR website	25%	
	25% site review is complete, plans are submitted with site review comments incorporated.	30%	
	Plans clearly indicate who is providing materials (UPRR or Contractor)	30%	
	Project Specifications submitted along with plans for review	90%	
	Plans incorporate all of UPRR comments.	90%	
Plan View			
	Ex. Tracks labeled with zts numbers and Prop. tracks with alpha-numeric names (EX: Track A, Track B)	10%	
	Each track must have its own plan and profile sheet	10%	
	Plan sheets shown and organized by phase	10%	
	Tangent distances meet requirements per STD DWG's 0018.	10%	
	Facing Point Turnout distances meet requirements per STD DWG's 0017.	10%	
	Degree of curve and stationing of PS, PSC, PCS & PT labeled on all curves.	10%	
	Horizontal curves are concentric.	10%	
	Superelevation and spirals calculated per UPRR STD DWG's 0021, 0023 & 0019 (1" Freight, 3" Pass.)	10%	
	Horizontal curve lengths are equal to or greater than 100'.	10%	
	Curve degree & length, superelevation, spiral length shown on plan view near each corresponding curve.	10%	
	Edge of crossing to point of switch is greater than 120' (300' preferred).	10%	
	Point of tangent to point of switch is 200' or greater per UPRR Std. DWG 0018.	10%	
	Point of Switch to Bridge Abut. must be 500' or if the bridge has a walkway and handrail 100'. (When diverging track does not cross bridge).	10%	
	Point of Switch to Bridge Abut. is equal to or greater than 300'. (When diverging track crosses bridge).	10%	
	Bridges need 100' of tangent track past outside edge of abutment.	10%	
	Turnouts and Derails are shown and labeled per "Public Projects Guidelines" document.	10%	
	HST (Hollow Steel Ties) called out on turnouts where required per STD DWG 0080	10%	
	Turn Out Applications have been verified per STD DWG 0080.	10%	
	20' track centers needed for crossovers per STD DWG 0080.	10%	
	Derail Applications & placement have been verified per STD DWG 2000.	10%	
	Utilities are shown and labeled (Underground and overhead). Impacts are identified on plans.	10%	
	Track centers are dimensioned - 20' required for new, future or re-aligned tracks. 15' min. for temp shoofly tracks.	10%	
	Bridges are designed for 20' track centers and future(s) track as required.	10%	
	Future track locations are shown on plans.	10%	
	UPRR ROW Ex. & Prop. shown and labeled. (Dimensioned from CL of Main Track 1)	10%	
	Road crossings shown and labeled per "Public Projects Guidelines" document.	10%	
	Drainage structures shown and labeled per "Public Projects Guidelines" document.	10%	
	Existing Signals, Signal Houses or other signal equip. is shown and labeled.	10%	
	Timetable direction and Station is shown on side of project/ sheet.	10%	
	Proposed Rail section on mainlines with curves greater than 6 degrees must be 136# HH	10%	
	All plans with temporary shooflies need to include track geometry for final alignment	10%	
	Project meets current requirements for Temporary Clearance Envelope.(See Joint BNSF Railway and UPRR Guidelines)	10%	
	Signal pads shown. (if new signals our signal houses are required)	25%	
	Wetland Impacts identified and shown.	25%	
	Buildings or structures adjacent to any track work shown and labeled.	25%	
	Construction Notes including delineation of work shown per "Public Projects Guidelines" document.	25%	
	Turnout walkways and construction pads details included.	25%	
	Existing Rail weight & tie type labeled.	25%	
	Transition Rail/ tie locations are identified on plans and are not located in horizontal curves.	25%	
	Grading Cut/ fill lines shown on plans. (refer to Abbreviations & Legend sheet for style)	25%	
	Drainage flow paths with direction arrows shown. (refer to Abbreviations & Legend sheet for style)	25%	
	Proposed Signals, Signal Houses or other signal equip. is shown and labeled.	30%	
	Grading Cut/ fill lines include turnout pad locations, walkways and signal/ signal cabin locations	90%	
	Grading plan may be required by UPRR based on project circumstances	90%	

Profile

Profiles shown above plan view for each track within the project.	25%	
Vertical curves and tangents must be 100' or greater per AREMA Chapter 5, Section 3.6	25%	
Existing Top of Rail shown 1000' on each side of structure or 200' past the end of the proposed project	25%	
Proposed and existing/shoofly top of rail Profile elevations displayed every 100'.	25%	
Road crossings shown and labeled per "Public Projects Guidelines" document.	25%	
Drainage structures shown and labeled per "Public Projects Guidelines" document.	25%	
Turnouts and Derails shown and labeled per "Public Projects Guidelines" document.	25%	
Turnouts and switchpoint Derails are outside vertical curves.	25%	
Utilities shown and labeled (Underground and overhead).	25%	
Vertical curve design (V/L) conforms to STD DWG 0016.	25%	
Retaining walls (When required and approved by UPRR) that parallel tracks are shown on the profile.	25%	
Point of Switch Elevations match on corresponding profiles.	25%	
Track raises for new underpasses are not acceptable.	25%	
Vertical grade changes within shifts/ tie ins must be minimized or eliminated.	25%	

Typical Sections

Typical Sections coincide with UPRR STD DWG 0001, 0002 and or 0003.	25%	
Shoofly, temporary and or final alignment sections shown.	25%	
Typical sections shown cover the entire project (Verify stationing)	25%	

Phasing

Track by track phasing schematic included with activity description notes.	25%	
Phasing narrative included with plans (See Guidelines document for Phasing plan example)	25%	

Cross Sections

Cross sections for all phases should typically reference existing mainline stationing.	25%	
Cross Sections of entire project and 200' past the end of project are shown.	25%	
Show UPRR ROW & any construction easements.	25%	
Top of Rail elevations match profile.	25%	
Impacting utilities are shown (Include special sections if needed).	25%	
Prop. and Ex. Top of Rail, Grade Breaks and Ditch Flowline elevations shown per "Public Projects Guidelines" document.	25%	
Ditch drainage has been verified & shown using flow arrows.	25%	
Special sections needed at roadways, drainage structures and other key points are shown.	90%	

Date: 7/30/2019