

RTD ENGINEERING DIVISION REVIEW of UTILITY OWNER SUBMITTED REQUEST TO CROSS RTD ROW/FACILITIES

USE THIS REQUIREMENT CHECK-OFF LIST AS GUIDELINES - This list is used by RTD ENGINEERING STAFF for review of your submittal

Important - Crossing RTD ROW/Facilities is a process that begins and ends with RTD's Real Property Group, but if you have Engineering Questions, contact RTD Engineering.

Utility Owner (UO) _____ Utility-Type _____ Corridor/Street Location _____ / _____ UA # _____

ITEM #	REQUIREMENTS NEEDED	HAVE YOU INCLUDED THESE ITEMS?
1	RTD Railroad Utility Agreement - Application Data Sheet (Completely Filled Out)	
2	Plan/Profile with PE Stamp/Signature as FOR CONSTRUCTION	
3	Plan/Profile - Clear indication of Location of crossing/parallel wrt nearest major cross streets (Aerial photo)	
4	Plan/Profile - RTD tracks and RTD Right-of-Way (ROW) clearly shown with distances to Utility	
5	Plan/Profile - Both views show RTD tracks	
6	Plan/Profile - Both views show crossing utility and pipe and casing size and material	
7	Plan/Profile - Bore Pits clearly shown on Plan/Profile with distances from edge of Bore pits to nearest RTD rail and ROW	
8	Plan/Profile - If Encased - Length and Extent of Casing and distance from edge of casing to RTD Dynamic Envelope is indicated and is sufficient.	
9	Tracer Wire &/or Marker Poles Included in Design.	
10	If Pressurized - Calculations with PE Stamp/Signature meeting AREMA	
11	If Pressurized and Unencased - Correct Pipe Thickness (per AREMA)	
12	If Pressurized and Unencased - Cathodic Protection / Pipe Coating shown	
13	If Pressurized and Unencased - Weld Testing & Pull Force Monitoring Specs	
14	If Pressurized and Unencased - Inspection and Maintenance Plan	
15	Method of Insallation / Bore Spec	
16	Field Check - Depth of RTD Underground Comm/Elec Ducts have been field & as-built verified and Horizontal and Vertical Depth of proposed UO Utility is OK (UO must coordinate with RTD Engineering & MOW)	
17	Depending on size and depth of bore - Geotechnical Report may be required showing install will not impact surface and subsurface stability	
18	RTD Notes to Contractor on Plan/Profile (1) Contractor shall contact Jim Kelley & Mitch Kuharski two weeks prior to construction....	
19	RTD Notes to Contractor on Plan/Profile (2) Contractor shall contact MOW... Rail Ops... RTD On Track Safety Training. Prior to the start of work....	
20	RTD Notes to Contractor on Plan/Profile (3) Contractor shall Survey and Submit completed Horiz Plan & Vert Profile As-builts showing (a, b, c, d, e, f, g, h) and submit to RTD within 30 days of completion: a) Before and After survey of Top of Rail.... include Date of pre-construction and Date of post-construction surveys of top of rail b) Bore/Vertical Profile of Installed Pipe, Survey 5 locations along installed utility (minimum) c) Copy of Survey Field Notes to RTD to support Survey results shown on As-Built d) RTD Assigned License Agreement Number e) Date Facility was Installed f) Size of Pipe, Size of Casing g) Material carried in pipe h) As-Builts must be Stamped, Signed, Dated by Licensed Surveyor or Engineer	
21	RTD Notes to Contractor on Plan/Profile (4) Contractor shall Install 4 foot Utility Markers.... Utilities shall be Locatable....	
22	RTD Notes to Contractor on Plan/Profile (5) RTD Assumes No Responsibility for Utility Locations Shown on Construction Drawings.... It is the Contractors Responsibility to Field Verify....	
23	RTD Notes to Contractor on Plan/Profile (6) Contractor shall Locate RTD underground conduits (Horiz & Vert Depth) without compromising integrity of tracks....	
24	If Utility Owner (UO) design violates RTD criteria - RTD Variance has been submitted by UO and approved by RTD (if Variance is Rejected by RTD, UO submits new design reflecting necessary changes)	
25	If Utility Owner (UO) plans to REMOVE a crossing utility - RTD Agreement to Vacate Form (Completely Filled Out)	

For RTD Utility Application Forms and RTD Contact Information, go to www-rtd-denver.com