

REQUIRED CONSTRUCTION NOTES

Add these to your 'for construction' drawing
for work performed on the North Metro Commuter Rail Line

- 1) PRIOR TO PERFORMING ANY WORK ON, ADJACENT TO, OR ACROSS RTD'S NORTH METRO ROW, THE CONTRACTOR SHALL COMPLETE RRP NORTH METRO RAIL PROJECT SAFETY ORIENTATION TRAINING. CONTRACTOR SHALL CONTACT BRENT SMITH (RRP CONSTRUCTION SAFETY MANAGER) BY EMAIL AT BSMITH@RRPJV.COM 30-DAYS PRIOR TO CONSTRUCTION TO SCHEDULE SAFETY ORIENTATION TRAINING, PROVIDED BY RRP AT NO COST TO THE CONTRACTOR. THE TWO (2) HOUR SAFETY TRAINING SESSION IS NORMALLY PROVIDED WEEKLY ON TUESDAY MORNING. ALL CONTRACTOR PERSONNEL MUST HAVE PROOF OF CURRENT SAFETY TRAINING READILY AVAILABLE FOR INSPECTION BY RRP WHILE WORKING ON SITE.

FOR WORK OCCURRING IN NORTH METRO AREAS A-D (DENVER UNION STATION TO YORK STREET), CONTRACTOR SHALL OBTAIN A BNSF RIGHT-OF-ENTRY (ROE) AGREEMENT, BNSF ROADWAY WORKER PROTECTION (RWP) TRAINING AND E-RAIL SAFE BACKGROUND CHECKS FOR ALL ON SITE PERSONNEL AND, IF NECESSARY, BNSF FLAGGING. CONTRACTOR SHALL REGISTER AT <https://bnsfcontractor.com> TO OBTAIN INFORMATION REGARDING FULFILLMENT OF THESE REQUIREMENTS. ALL CONTRACTOR PERSONNEL MUST HAVE PROOF OF CURRENT BNSF RWP TRAINING AND E-RAIL SAFE CERTIFICATION READILY AVAILABLE FOR INSPECTION BY BNSF WHILE WORKING ON SITE.

- 2) 30-DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, CONTRACTOR SHALL CONTACT THE FOLLOWING REPRESENTATIVES BY EMAIL TO COORDINATE AND SCHEDULE A MANDATORY PRECONSTRUCTION MEETING TO REVIEW THE REQUIREMENTS OF THE WORK:
 - REGIONAL RAIL PARTNERS (RRP) - DAVID RICHMOND, DRICHMOND@RRPJV.COM
 - RTD NORTH METRO - COLBY CHILDS, COLBY.CHILDS@RTD-DENVER.COM
 - RTD ENGINEERING – NIKITA ZANICHKOWSKY, NIKITA.ZANICHKOWSKY@RTD-DENVER.COM

THE MEETING SHALL OCCUR NO LATER THAN 1 WEEK PRIOR TO THE START OF CONSTRUCTION.

- 3) CONTRACTOR SHALL CONTACT DAVID WHITLEY (RRP SAFETY COORDINATOR) BY EMAIL AT DWHITLEY@RRPJV.COM 30-DAYS PRIOR TO CONSTRUCTION TO OBTAIN THE MOST UP TO DATE PERMIT REQUEST FORMS AND TO INITIATE A REQUEST FOR A TRACK ALLOCATION PERMIT.
- 4) CONTRACTOR SHALL NOT BEGIN ANY WORK ON OR ACROSS ANY PART OF RTD'S NORTH METRO ROW/TRACKS UNTIL RTD HAS ISSUED AND EXECUTED A UTILITY AGREEMENT.
- 5) CONTRACTOR MAY NOT BEGIN WORK UNTIL RTD HAS ISSUED A PRE-CONSTRUCTION RESOLUTION RECORD (PCRR). A PCRR WILL BE COMPLETED AND SIGNED BY RTD AND THE CONTRACTOR REPRESENTATIVE DURING THE UTILITY PRE-CONSTRUCTION MEETING. A COPY OF THE SIGNED PCRR MUST BE KEPT ON-SITE AT ALL TIMES DURING CONSTRUCTION.
- 6) CONTRACTOR SHALL OBTAIN, KEEP CURRENT, AND COMPLY WITH THE PROVISIONS OF ALL PERMITS, TRAFFIC CONTROL PLANS, PERMISSIONS, AND OTHER APPROVALS NECESSARY FROM RTD, RRP, 3RD PARTY UTILITY OWNERS, AND LOCAL JURISDICTIONS REQUIRED FOR THE WORK.
- 7) RTD AND RRP ASSUME NO RESPONSIBILITY FOR UTILITY LOCATIONS SHOWN ON THESE CONSTRUCTION DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES AND OTHER UNDERGROUND FEATURES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
- 8) PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL IDENTIFY AND VISUALLY CONFIRM THE HORIZONTAL LOCATION AND VERTICAL DEPTH OF ALL EXISTING UNDERGROUND RTD, SUNCOR PIPELINE, AND OTHER 3RD PARTY FACILITIES WITHIN THE RTD NORTH METRO ROW. THIS MUST BE ACCOMPLISHED BY

POTHOLING, HYDRO VAC, OR OTHER PRE-APPROVED METHODS. THE LOCATING METHOD MUST BE MUTUALLY AGREED UPON BY RTD, RRP, AND THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING AND SHALL BE PART OF THE PRE-CONSTRUCTION RESOLUTION RECORD (PCRR).

- 9) AS-BUILT DOCUMENTATION: CONTRACTOR SHALL SURVEY AND SUBMIT THE COMPLETED HORIZONTAL PLAN AND VERTICAL PROFILE AS-BUILTS TO RTD AND RRP WITHIN 30 CALENDAR DAYS OF THE COMPLETION OF CONSTRUCTION WITHIN RTD RIGHT-OF-WAY. THE PLAN AND PROFILE AS-BUILTS MUST CONTAIN THE FOLLOWING INFORMATION:
 - a) PRE- AND POST-CONSTRUCTION SURVEY OF TOP OF RTD TRACKS TO SHOW NO MOVEMENT OF TRACKS DUE TO CONSTRUCTION: AT A MINIMUM, THE CONTRACTOR SHALL SURVEY EACH RAIL AT THE CENTERLINE AND 10' EACH SIDE OF THE NEW PIPELINE CROSSING LOCATION. TOP OF RAIL SURVEYS MUST BE COMPLETED IMMEDIATELY PRIOR TO AND IMMEDIATELY FOLLOWING CONSTRUCTION.
 - b) AT A MINIMUM THE CONTRACTOR SHALL SURVEY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF THE PIPELINE WHERE IT CROSSES EACH RIGHT-OF-WAY LINE, TRACK CENTER LINE, AND MIDWAY BETWEEN THE OUTMOST TRACKS AND EACH RIGHT-OF-WAY LINE.
 - c) ALL SURVEY DATA SHALL BE TIED TO RTD CONTROL POINTS.
 - d) CONTRACTOR SHALL SUPPLY RTD WITH A COPY OF THE SURVEYOR'S FIELD NOTES TO SUPPORT THE BEFORE AND AFTER SURVEY DATA AND FINAL UTILITY INSTALLATION DATA.
 - e) RTD UTILITY AGREEMENT NUMBER.
 - f) DATE THE FACILITY WAS INSTALLED.
 - g) SIZE OF PIPE AND SIZE OF CASING.
 - h) MATERIAL BEING CARRIED IN THE PIPE.
 - i) AS-BUILTS MUST BE STAMPED, SIGNED, AND DATED BY A LICENSED SURVEYOR OR ENGINEER.
- 10) CONTRACTOR SHALL CLEARLY MARK UTILITY CROSSING USING A METHOD AGREED UPON BY CONTRACTOR AND RTD AT PRE-CONSTRUCTION MEETING. MARKERS MAY INCLUDE 4 FOOT UTILITY POSTS OVER UTILITY OR VISIBLE MANHOLES ON BOTH SIDES OF RTD ROW/TRACKS. THE CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL NON-METALLIC PIPES. ALL UTILITIES INSTALLED WITHIN RTD ROW OR CROSSING RTD TRACKS MUST BE LOCATABLE WITH STANDARD LOCATING EQUIPMENT.
- 11) CATHODIC PROTECTION MUST BE INCLUDED FOR ALL NEW, BURIED, METALLIC, PRESSURIZED, PIPING CROSSING RTD COMMUTER RAIL TRACKS. DESIGN MUST MEET RTDC-NM-RRP'S CRT DESIGN CRITERIA FOR CATHODIC PROTECTION.
- 12) CONTRACTOR MUST HAVE THE FOLLOWING DOCUMENTS ON-SITE DURING CONSTRUCTION AT ALL TIMES:
 - EXECUTED UTILITY AGREEMENT,
 - RTD-RRP-BNSF SAFETY TRAINING CREDENTIALS
 - RTD APPROVED PE STAMPED/SIGNED FOR CONSTRUCTION PLANS/PROFILES
 - RTD RR CROSSING APPLICATION DATA SHEET,
 - SIGNED PRE-CONSTRUCTION RESOLUTION RECORD (PCRR).
 - SIGNED SUNCOR EASEMENT ENCROACHMENT CONSENT APPROVAL
 - NM RRP TRACK ALLOCATION PERMIT
- 13) NO IN-FIELD CHANGES ARE ALLOWED TO ANY PART OF THIS DESIGN WHERE THE UTILITY CROSSES RTD ROW/TRACKS WITHOUT WRITTEN APPROVAL FROM RTD AND RRP PRIOR TO CONSTRUCTION OF THE CHANGE.