



**DART DESIGN STANDARDS
CHECKLIST FOR
PIPELINES CONVEYING NON-FLAMABLE SUBSTANCES
BENEATH RAILROAD TRACK**

PROJECT NAME	
DATE	DART – GEC NUMBER (DART Use Only)

Instructions: Complete the checklist by checking the appropriate response for each item. Return the completed checklist with the “Standard Application.” This checklist provides but is not limited to the most common design and construction standards DART may require. DART reserves the right to apply additional standards other than those listed on the checklist. Explain each N/A response in the space provided for additional comments.

#	Item	Yes	N/A	DART Use ¹
1	The application shall include a drawing showing a plan, cross section and details for the crossing.			
2	The drawing shows the track station or milepost number of the crossing.			
3	The drawing shows the DART right of way and public right of way boundaries in relation to the crossing.			
4	The drawing shows lines under railway tracks to be encased across the full width of the right of way.			
5	The drawing shows the lines to be installed under tracks by boring or jacking. (AREMA 5.3.2.b) ²			
6	The drawing shows the lines located to cross tracks at approximately and preferably at right angles thereto but at not less than 45 degrees. (AREMA 5.3.2.c)			
7	The drawing shows the line placed within culverts or under railway bridges without restricting the clear span or endangering the foundations. (AREMA 5.3.2.c)			
8	When the lines are laid longitudinally on railway rights-of-way the drawing shows them located in accordance with AREMA 5.3.2.d.			
9	The drawing shows that the pipeline can be electronically located. (AREMA 5.3.2.f)			
10	When casings are abandoned they shall be backfilled by methods and materials as directed by the Engineer and shown on the drawings.			
11	The drawing shows carrier line pipe and joints comply with AREMA 5.3.3.a.			
12	The drawing shows plastic carrier pipe materials comply with AREMA 5.3.3.c.			
13	The drawing shows the pipeline is encased in accordance with the DART requirements defined on page 6-32.			

¹ DART Use

CON – Concur with applicant

DNC – Do Not Concur with applicant

² AREMA References are found in *Manual for Railway Engineering, Volume 1*, Chapter 1, “Roadway and Ballast”, Section 5, “Pipelines.” DART references are found in the *DART Light Rail Project Design Criteria Manual*.

#	Item	Yes	N/A	DART Use ¹
14	The drawing shows casing joints are leak-proof and capable of withstanding railroad loading. (AREMA 5.3.4.a)			
15	The drawing shows the casing pipe inside diameter conforms to AREMA 5.3.4.a.			
16	The drawing shows the casing thickness complies with AREMA 5.3.4.b.			
17	The drawing shows the steel casing pipe minimum yield strength at least 35,000 p.s.i. (AREMA 5.3.4.2)			
18	If the casing pipe is reinforced concrete pipe the drawing shows it conforms to AREMA 5.3.4.1.			
19	The drawing shows the construction methods conform to AREMA 5.3.5.			
20	The drawing shows the casing pipe under railway tracks and across railway rights-of-way is buried deeper than shown in AREMA 5.3.5.2.			
21	The drawing shows shut off valve locations shown as required by AREMA 5.3.5.3.			
22	If the line is laid longitudinally on the ROW 50 ft. or less from track centerline, the drawing shows the top of pipe is buried greater than 4 feet. (AREMA 5.3.5.4)			
23	The drawing shows the data listed in AREMA 5.3.6, Table 1-5-6.			
24	The drawing shows all manholes are installed outside the DART right of way.			
25	The drawing shows utility markers in accordance with DART requirements on p. 6-5 & p. 6-38.			

Additional Comments: