



**DART DESIGN STANDARDS
CHECKLIST FOR
PIPELINES CONVEYING NON-FLAMMABLE SUBSTANCES
BENEATH LRT 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 includes 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. (p. 6-5) ²			
6	The drawing shows the lines located to cross tracks approximately and preferably at right angles thereto but at not less than 45 degrees. (p. 6-5)			
7	The drawing shows utility markers in accordance with p. 6-5 & p. 6-38.			
8	The drawing directs the contractor to construct the casing in accordance with the utility owner’s standards. (DART p. 6-7)			
9	The drawing requires grouting voids which form around a bore. (DART pps. 6-7 and 6-8)			
10	If the pipeline operates at pressures greater than 10 psi, the drawing shows shut off valves locations as described on page 6-8.			
11	When the lines are laid longitudinally on railway rights-of-way the drawing shows them located in accordance with p. 6-6.			
12	When casings are abandoned they are to be backfilled by methods and materials as directed by the Engineer and shown on the drawings.			
13	The drawing shows casing pipe under railway tracks and across railway rights-of-way to be buried deeper than shown in Table 6-2.			

¹ DART Use
 CON – Concur with applicant
 DNC – Do Not Concur with applicant

² Page numbers are references to the *DART Light Rail Project Design Criteria Manual* which is found in Exhibit D.

#	Item	Yes	N/A	DART Use ¹
14	The drawing shows carrier pipe materials comply with p. 6-10. (See also Force Main p. 6-11)			
15	The drawing shows the line is sized in accordance with p. 6-11.			
16	If pipeline is sewer operating at less than 10 psi the drawing shows the line is sloped to provide the velocity requirements describe on page 6-11.			
17	The drawing shows the line alignment is in accordance with p. 6-11.			
18	The drawing shows all manholes are installed outside the DART right of way.			
19	The drawing shows connections are made in accordance with p. 6-12.			
20	If the lines operate at a pressures less than 10 psi, the drawing shows the line meets the requirements "Nonflammable Substance Pipelines" on p. 6-12 through 6-14.			
21	The drawing shows the carrier pipe meets the joint and material requirements described on p. 6-12.			
22	The drawing shows the casing pipe material meets the requirements on p. 6-12 and 6-13.			
23	The drawing shows the steel casing pipe minimum yield strength is at least 35,000 p.s.i. (p. 6-13)			
24	The drawing shows the casing thickness complies with Table 6-1.			
25	The drawing shows the casing pipe joints are capable of withstanding railroad loading. (p. 6-13)			
26	The drawing shows thrust blocks as required on page 6-16.			

Additional Comments