



$TrueRadius^{T}$

VS

Segmented Radius

Trench Drain Reference Guide

This booklet is to provide designers, contractors, and sales guidance on radius trench drain layout and the visual impact. It is based on the following points.



Radius drains are placed in locations where the grate and channel openings must meet heel proof or ADA compliance.



The drain radius or curve is to be smooth for aesthetic requirements.



Grates cannot be cut as the continuous pattern will be disrupted.

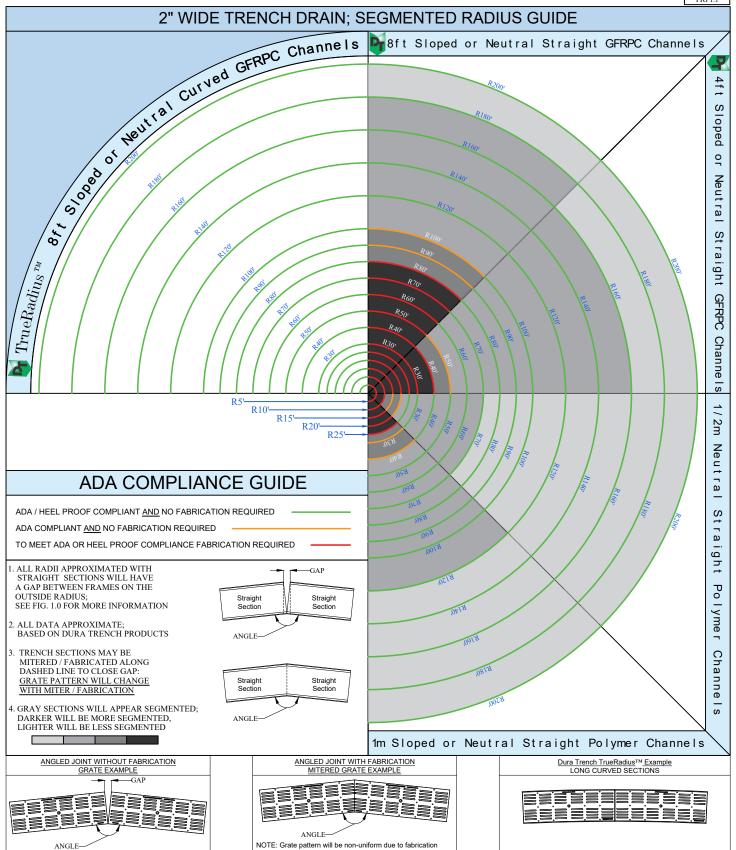


As the radius becomes tighter, straight channel sections become more segmented in a curve requiring fabricated bends to be made.

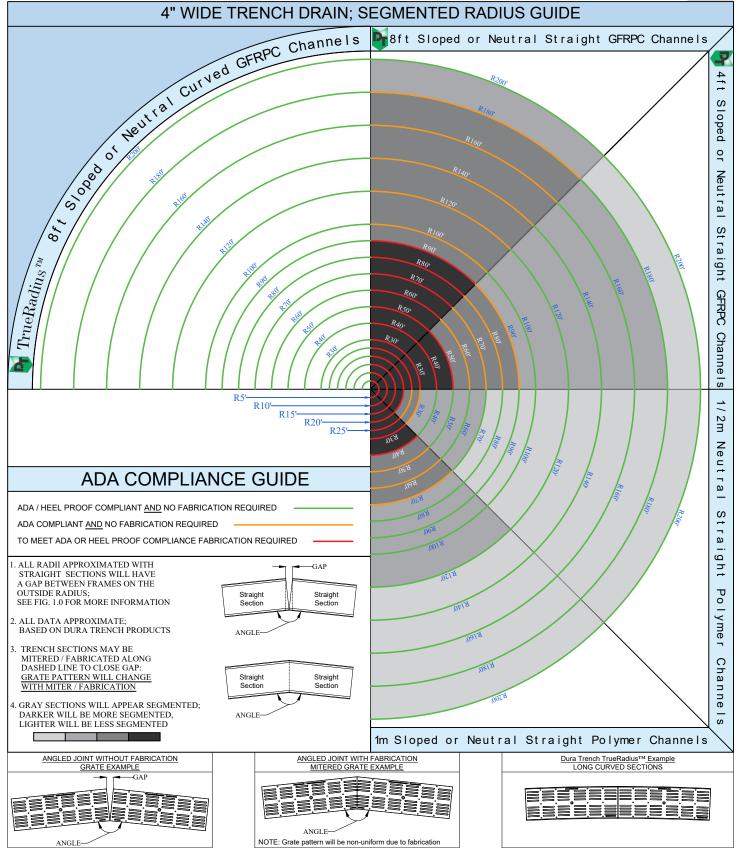


TrueRadius is the solution.



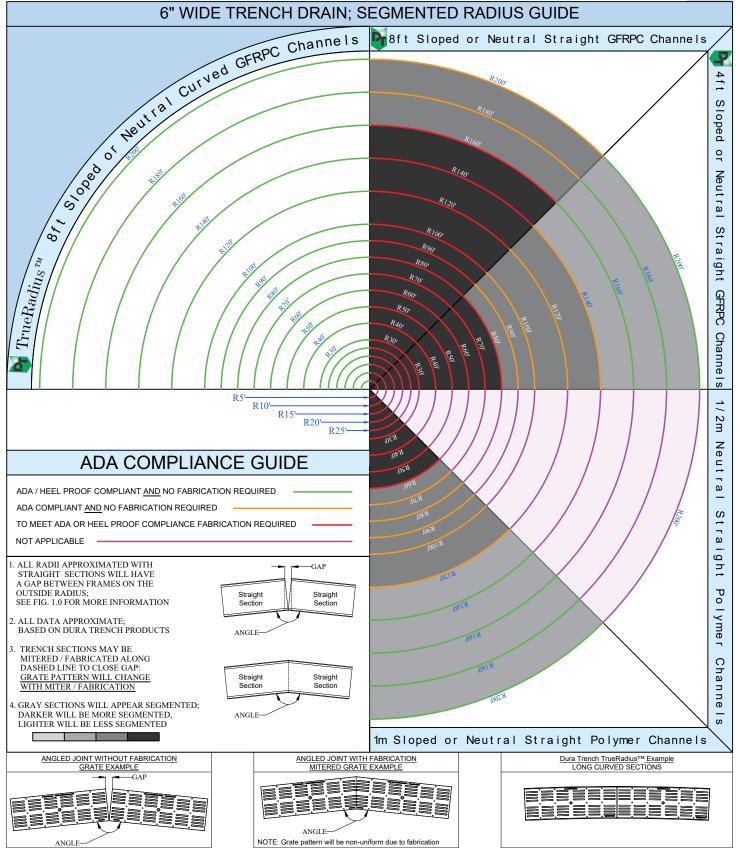




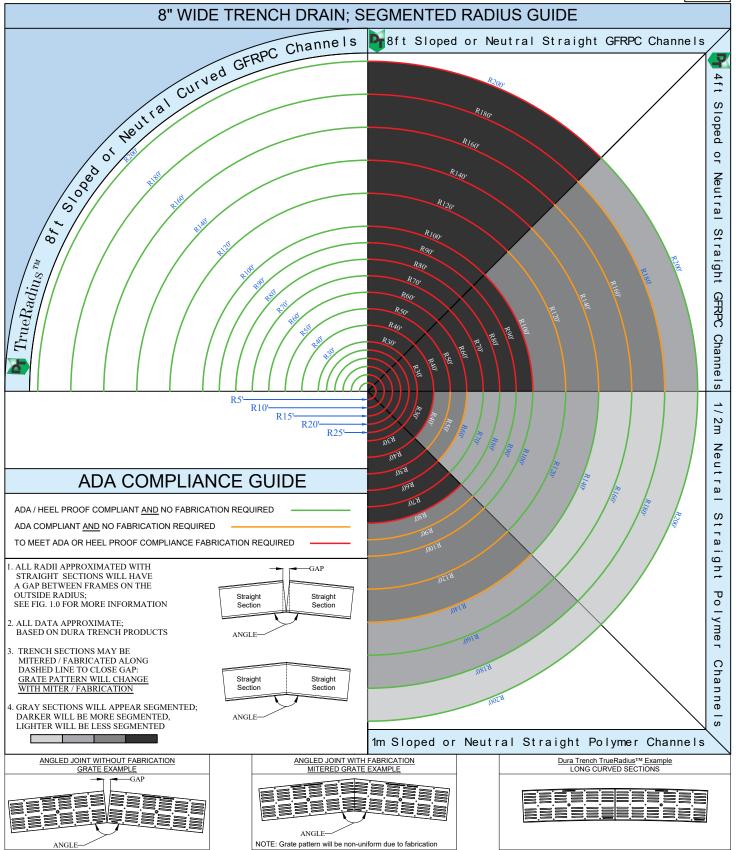


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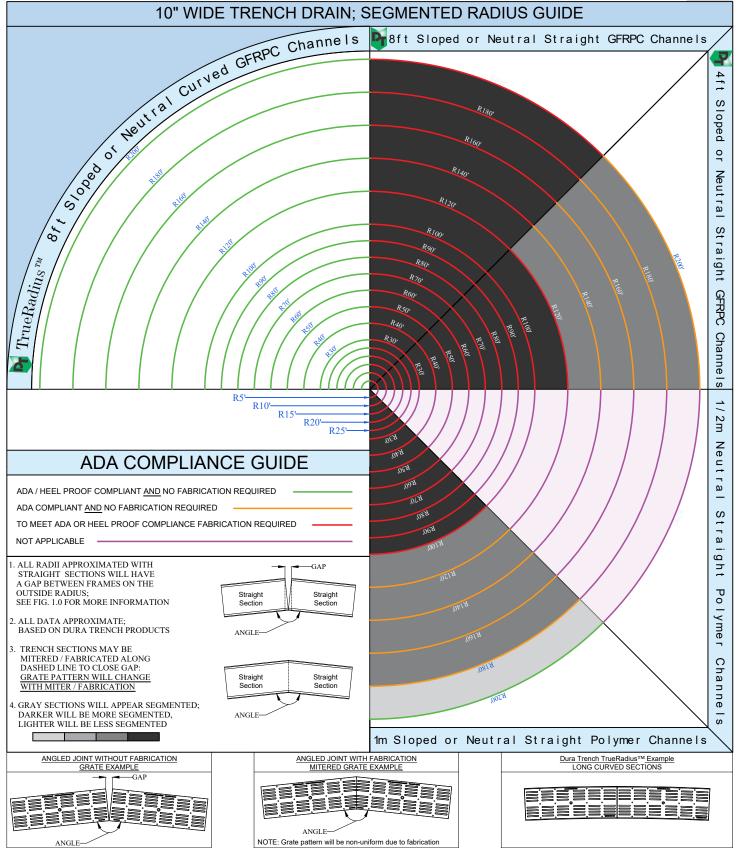














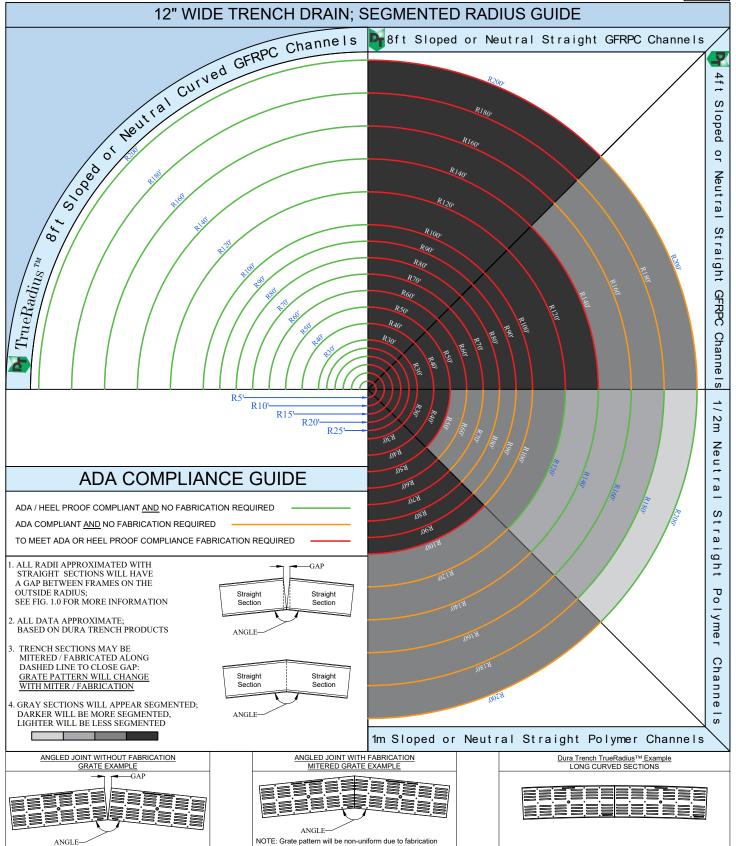
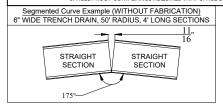


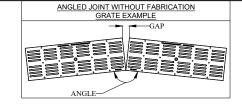


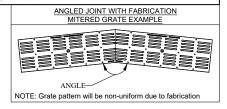
FIG 1.0 STRAIGHT TRENCH DRAIN RADIUS APPROXIMATION REFERENCE 2" WIDE TRENCH DRAIN 4" WIDE TRENCH DRAIN TRENCH SECTION LENGTH TRENCH SECTION LENGTH 1/2 Meter Polymer 1 Meter Polymer 1/2 Meter Polymer 1 Meter Polymer 5' 5' 10' 10' 15' 15' 20' 20' 3/16" (176° Angle) 30' 30' 40' 40' 50' TRENCH TRENCH 60' 60' 3/16" (177° Angle) RADIUS 70' 3/16" (177° Angle) 80' 80' 90' 90' 3/16" (176° Angle) 3/16" (178° Angle) 120' 1/8" (178° Angle) 1/16" (179° Angle) 120' 1/16" (179° Angle) 3/16" (177° Angle) 1/16" (179° Angle) 1/8" (178° Angle) 5/16" (177° Angle) 140' 1/16" (178° Angle) 140' 1/16" (179° Angle) 3/16" (177° Angle) 1/16" (179° Angle) 1/8" (177° Angle) 1/16" (179° Angle) 1/8" (178° Angle) 1/16" (179° Angle) 1/8" (178° Angle) 160' 180' 180' 3/16" (178° Angle) 1/16" (~180° Angle) 6" WIDE TRENCH DRAIN 8" WIDE TRENCH DRAIN TRENCH SECTION LENGTH TRENCH SECTION LENGTH 1/2 Meter Polymer 1 Meter Polymer 1 Meter Polymer 1/2 Meter Polymer 10' 10' 15' 15' 20' 20' 25' 25' 30' 30' 40' 40' 50' 50' 5/16" (178° Angle) TRENCH TRENCH N/A 3/16" (179° Angle) RADIUS 70' RADIUS 70' 80' 80' 3/16" (179° Angle) 90' 90' 100' 100' 120' 120' 140' 140' '16" (178° Angle) 3/16" (179° Angle) 160' 3/16" (179° Angle) 160' /4" (179° Angle) 1/8" (179° Angle) 2001 3/16" (179° Angle) 2001 3/16" (179° Angle) 12" WIDE TRENCH DRAIN TRENCH SECTION LENGTH TRENCH SECTION LENGTH 1/2 Meter Polymer 1 Meter Polymer 1/2 Meter Polymer 1 Meter Polymer 10' 10' 15' 15' 20' 25' 20' 25' 30' 30' 40' 40' 50' 50' TRENCH TRENCH 60' 60' N/A RADIUS 70' 70' 80' 80' 90' 90' 100' 100' 120' 120' 140' 140' 160' 160' 5/16" (179° Angle) 180' 180' 1/8" (179° Angle) ADA / HEEL PROOF COMPLIANT AND NO FABRICATION REQUIRED ADA COMPLIANT AND NO FABRICATION REQUIRED TO MEET ADA OR HEEL PROOF COMPLIANCE FABRICATION REQUIRED **NOTES** 1. ALL 4FT AND 8FT DATA BASED ON DURATRENCH CHANNELS
2. TABLE MEASUREMENTS DENOTE SPACE / GAP BETWEEN FRAMES ON OUTSIDE OF RADIUS AND ANGLE BETWEEN TRENCH SECTIONS SPECIFIED FOR EACH RADIUS / STRAIGHT SECTION LENGTH COMBINATION

3. SPACE / GAP BETWEEN FRAMES LIMITED TO 1/16" TOLERANCE & ANGLE TOLERANCE LIMITED TO 1 DEGREE

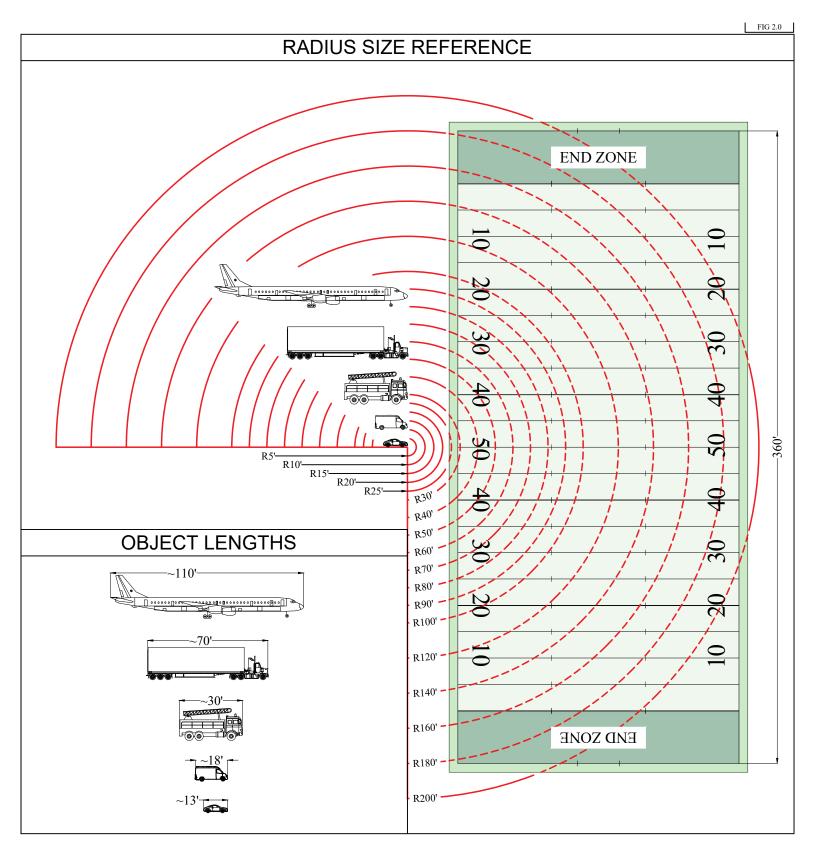
4. EVEN WHERE STRAIGHT SECTIONS ARE ACCEPTABLE; CERTAIN INSTALLATION CONDITIONS MAY REQUIRE TRUERADIUS TRENCH DRAIN FOR PROPER ALIGNMENT WITH CURBS, WALLS, AND OTHER FIXED FEATURES
5. ADA COMPLIANCE REQUIRES THAT SPACE BETWEEN GRATES NOT EXCEED 1/2", COLOR CODING ALLOWING FOR 3/8" SPACE BETWEEN FRAMES DUE TO 1/16" SPACING FROM END OF FRAME TO END OF GRATE
6. HEEL PROOF COMPLIANCE REQUIRES THAT SPACE BETWEEN GRATES NOT EXCEED 5/16", COLOR CODING ALLOWING FOR 3/16" SPACE BTWEEN FRAMES DUE TO 1/16" SPACING FROM END OF FRAME TO END OF GRATE











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To learn more about TrueRadius™ channel drains and other Dura Trench products, please visit our website or contact your local sales representative.

www.duratrench.com





