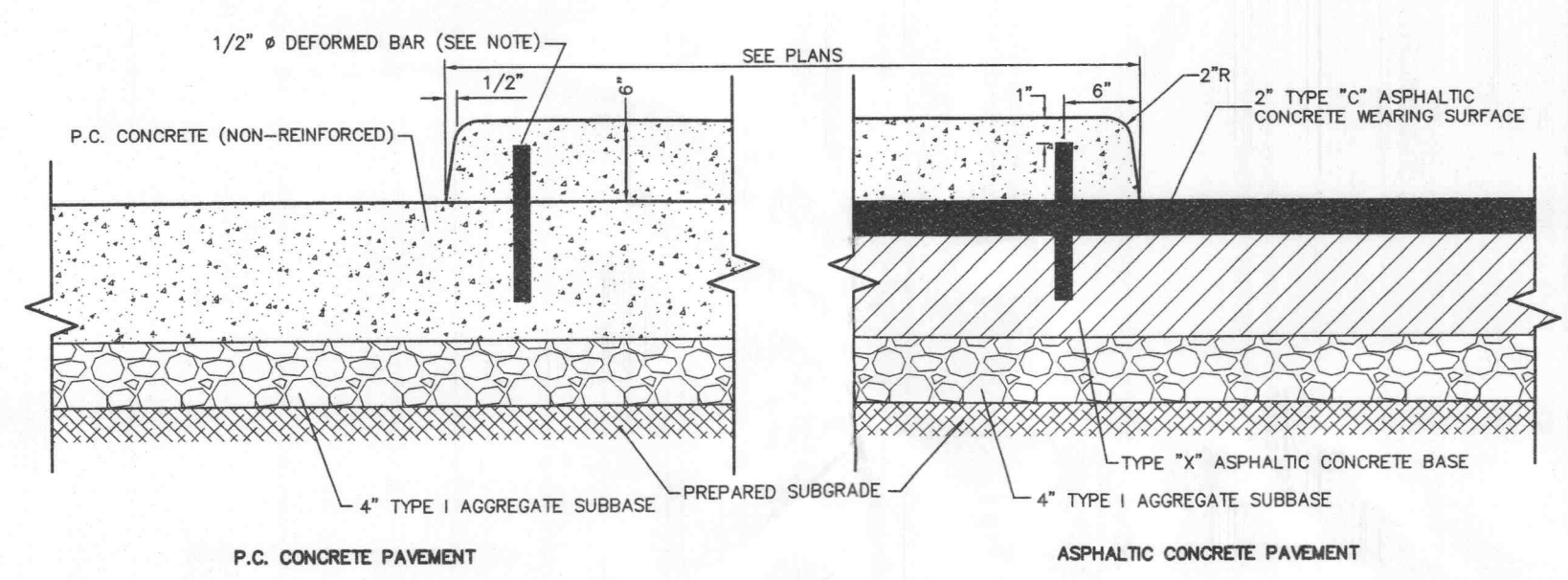


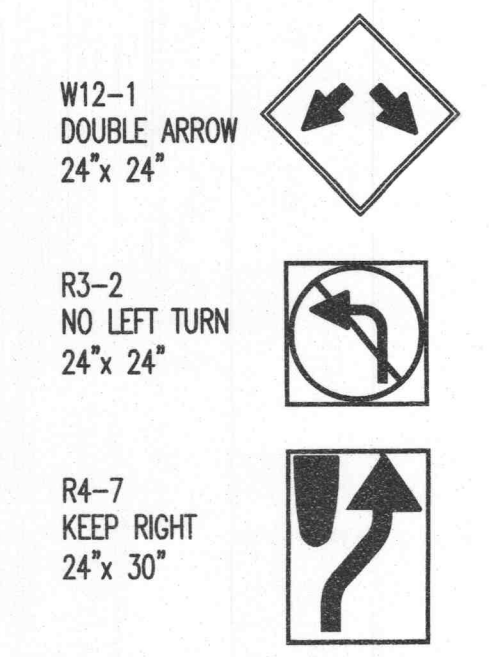
ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
Inside Diameter of Pipe (Inches)	"W" Payline Width of Trench (Inches)	"W" Payline Width of Trench (Feet)	Pay-volumes cu. ft. per ft. Concrete Encasement	Inside Diameter of Pipe (Inches)	"W" Payline Width of Trench (Inches)	"W" Payline Width of Trench (Feet)	Pay-volumes cu. ft. per ft. Concrete Encasement
4	28	2.33	3.20				
6	28	2.33	3.46				
8	28	2.33	3.70				
10	28	2.33	3.86				
12	28	2.33	3.98				
15	32	2.67	4.89				
18	35	2.92	5.63	14 X 23	41	3.42	5.94
21	39	3.25	6.61				
24	42	3.50	7.39	19 X 30	49	4.08	7.68
27	45	3.75	8.18	22 X 34	53	4.42	8.61

TABLE NO. 1
 PAYLINE WIDTHS OF TRENCH AND
 PAY-QUANTITIES OF CONCRETE

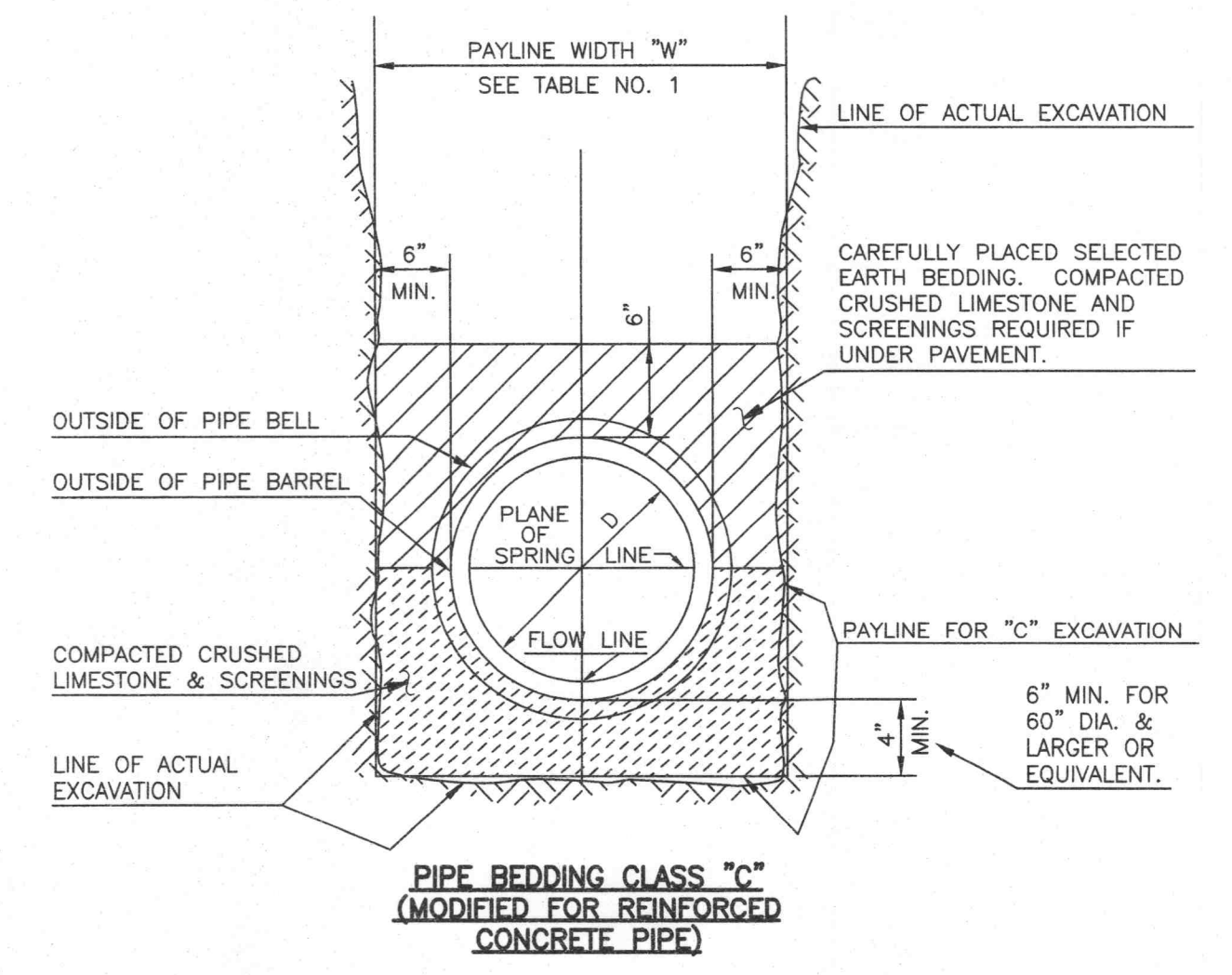


NOTE:
 LENGTH OF THE TIE BARS SHALL EQUAL THE THICKNESS OF PAVEMENT PLUS THE HEIGHT OF CURB LESS 3". THE BARS SHALL BE PLACED AT 24" CENTERS.

RAISED CONCRETE ISLAND
 NOT TO SCALE



SIGNS SHALL BE INSTALLED IN COMPLIANCE TO MDOT STANDARD 903.03AY PAGE 3. SHALL BE MULTI-DIRECTIONAL BREAKAWAY DESIGN. SIGNAGE TO BE INSTALLED ON PERFORATED SQUARE POST WITH MULTI-DIRECTIONAL MOUNTS WITH THE EXCEPTION OF THE YIELD SIGNS BEING INSTALLED ON 4x4 WOOD POSTS. ALL SIGNING SHALL BE INSTALLED 7 FOOT FROM THE BOTTOM OF THE SIGN TO THE DRIVING SURFACE.



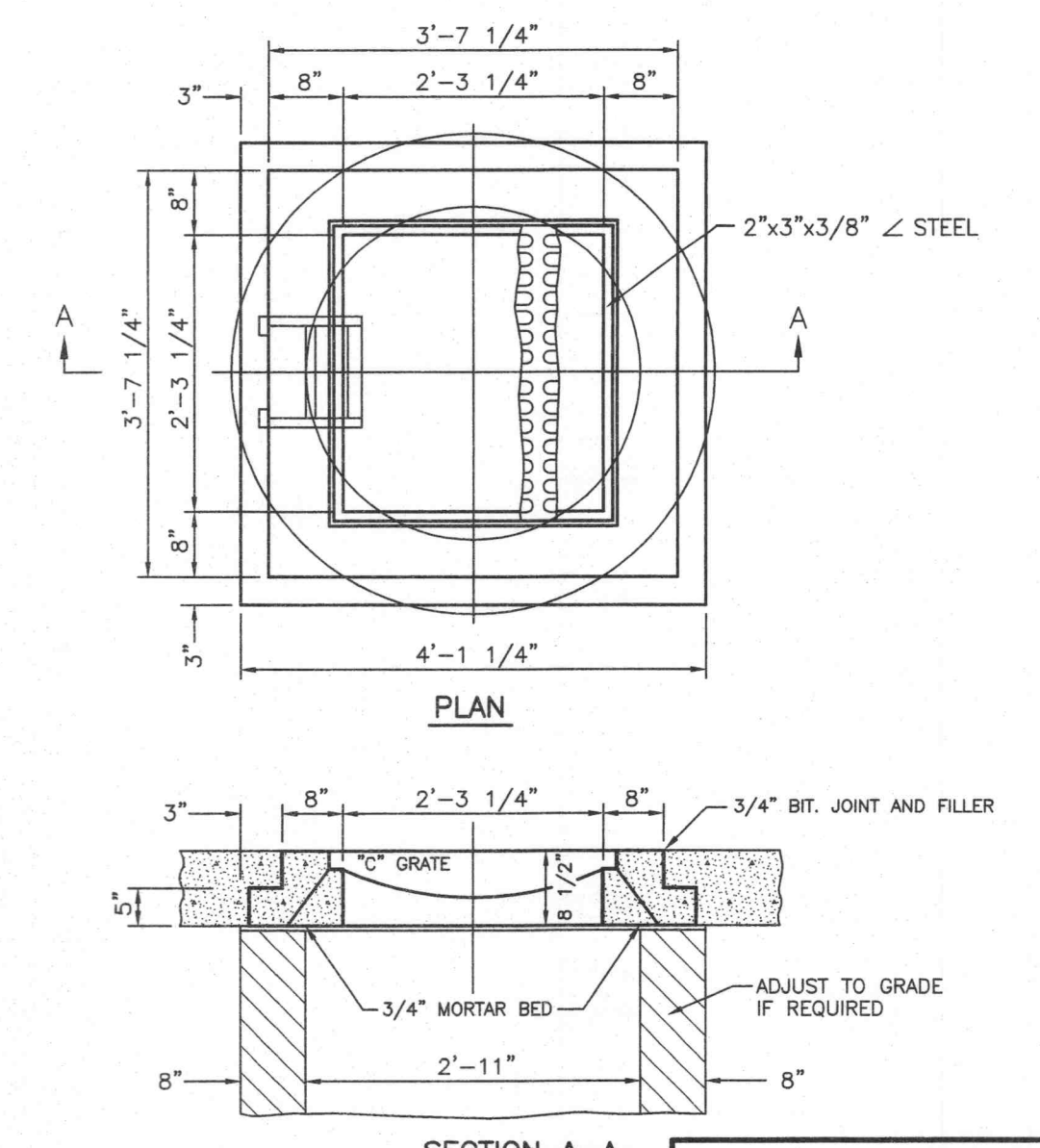
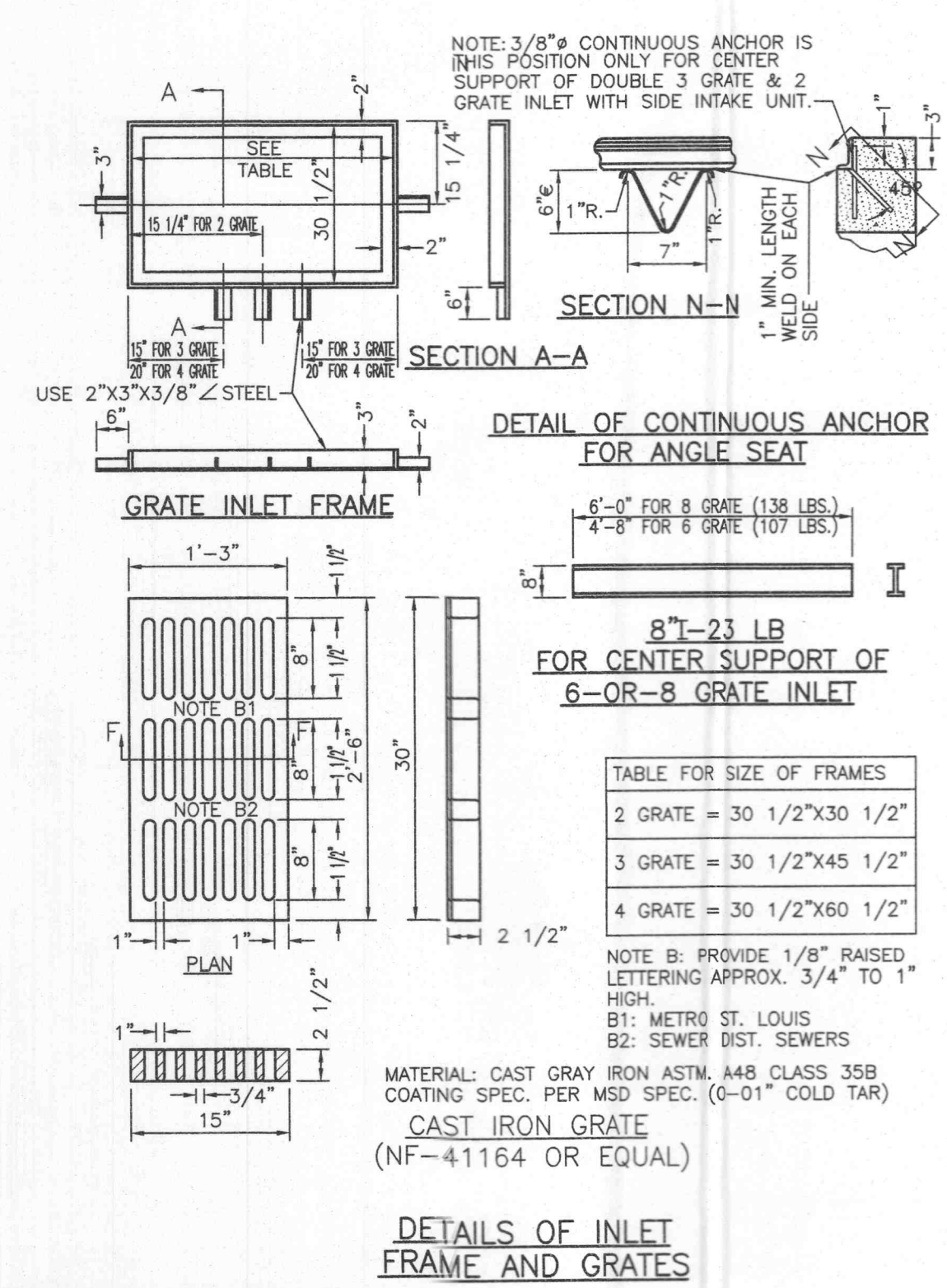
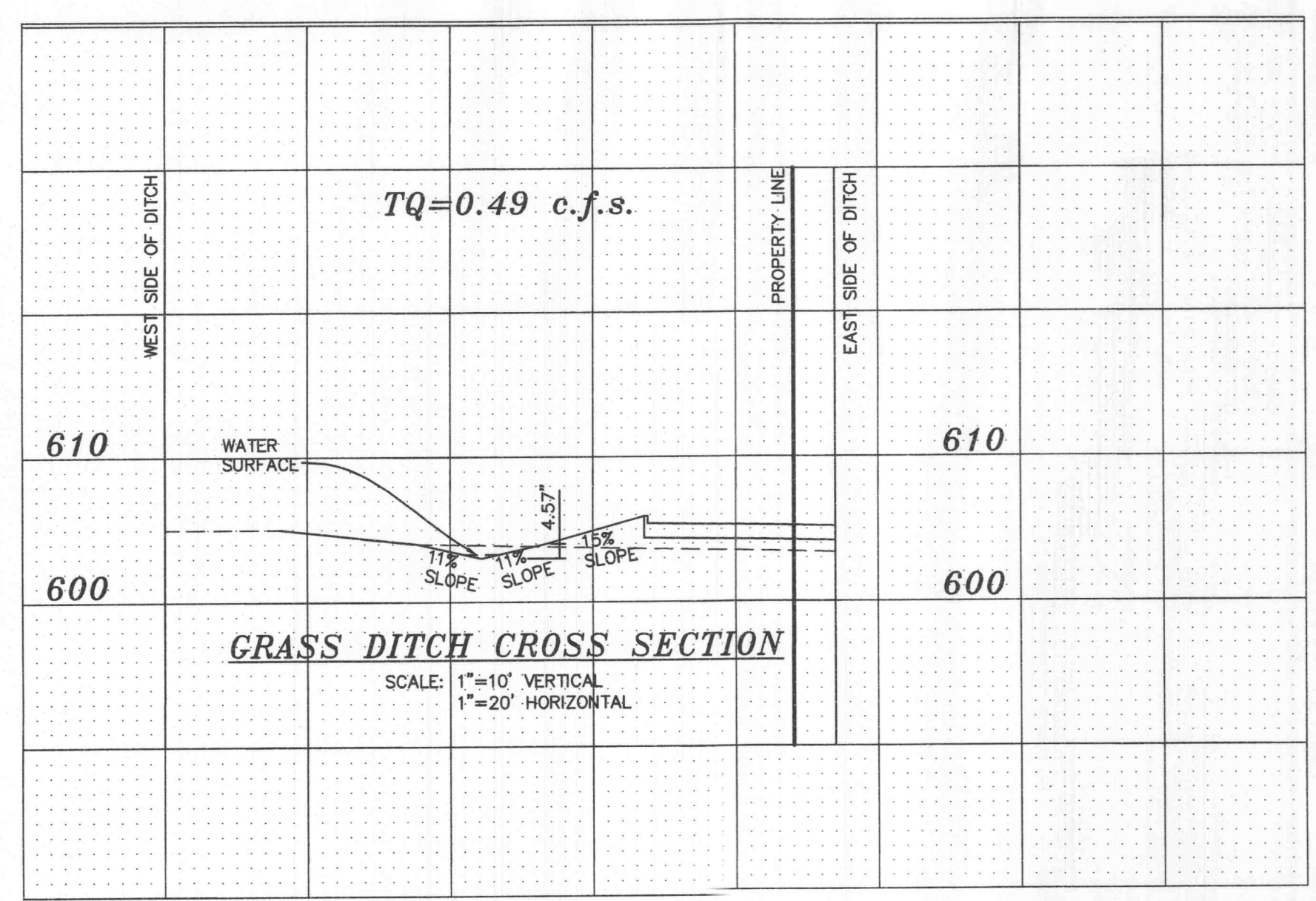
Channel Calculator

Given Input Data:

Shape Trapezoidal
 Solving for Depth of Flow
 Flowrate 0.4900 cfs
 Slope 0.0132 ft/ft
 Manning's n 0.0600
 Height 12.0000 in
 Bottom width 0.0000 in
 Left slope 0.1100 ft/ft (V/H)
 Right slope 0.1100 ft/ft (V/H)

Computed Results:

Depth 3.2295 in
 Velocity 0.7442 fps
 Full Flowrate 16.2306 cfs
 Flow area 0.6554 ft²
 Flow perimeter 59.0716 in
 Hydraulic radius 1.6050 in
 Top width 58.7174 in
 Area 9.0909 ft²
 Perimeter 219.4978 in
 Percent full 26.9121 %



NOTE: INLETS ON THIS SHEET ARE TO BE USED IN LOCATIONS WHERE STANDARD OPEN THROAT INLETS CAN NOT BE USED, IN RAISED TRAFFIC WAY, AND IN LIMITED EASEMENTS.

2 GRATE INLET

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