

Filename - 070402

Job Description - 15'x9' Box Culvert

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GEOMETRY

Span	15. ft	Top Slab Thickness	12. in.
Rise	9. ft	Bottom Slab Thickness	12. in.
Min. Depth of Fill	11. ft	Sidewall Thickness	10. in.
Max. Depth of Fill	11. ft	Length of Precast	6.25 ft
Depth Increment	0. ft	Section	

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HAUNCH DIMENSIONS

Top Vertical	8. in.
Top Horizontal	8. in.
Bottom Vertical	8. in.
Bottom Horizontal	8. in.

## CONCRETE COVERS

Top Outside	1.00 in.
Bottom Outside	1.00 in.
Sidewall Outside	1.00 in.
Top Inside	1.00 in.
Bottom Inside	1.00 in.
Sidewall Inside	1.00 in.

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MATERIAL PROPERTIES

Main Reinforcing Yield Stress	60000. psi
Design Concrete Strength	5000. psi
Concrete Density	150. pcf

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DESIGN SPECIFICATION

AASHTO Standard

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LOAD FACTORS

Dead Load: Shear and Moment	1.30
Thrust	1.00
Live Load: Shear and Moment	2.17
Thrust	1.00

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LOAD MODIFIERS

Dead Load: Shear and Moment	1.00
Thrust	1.00
Live Load: Shear and Moment	1.00
Thrust	1.00

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STRENGTH REDUCTION FACTORS

Flexure	0.90
Shear	0.85