



**CAMBRIDGE (SOUTHFIELD TO LATHRUP)**  
**PERFORATED PIPE DRAINAGE S.A.D.**

GW NO.: Promotional  
 DATE: December 29, 2020

**PRELIMINARY CONSTRUCTION COST ESTIMATE**

This estimate is for the installation of an 8 inch perforated pipe on the south side of Cambridge from Lathrup to the Southfield Alley. The north side will have drainage structures and some perforated pipe at each residential greenbelt for drainage and connected to the south side. Residential drives and greenbelt costs are included from the sidewalk to 7 feet towards the road (the city's cost will include the remaining 3 feet of the driveway and greenbelt as part of the road reconstruction).

ITEM	WORK ACTIVITY	QUANTITY	UNIT	UNIT PRICE	TOTAL	COMMENTS
<b>DEMOLITION</b>						
	Rem concrete driveways	145	SY	\$15.00	\$2,175.00	11 drives x 17' wide x 7' deep
	Culv, rem, less than 24" dia	345	FT	\$12.00	\$4,140.00	
					\$0.00	
	<b>SUBTOTAL - DEMOLITION</b>				<b>\$6,315</b>	
<b>EARTHWORK</b>						
	Topsoil stripping	88	CY	\$40.00	\$3,520.00	4" thick x 7,105 sft
	Fine grading and compaction	790	SY	\$2.00	\$1,580.00	7' wide greenbelt
					\$0.00	
	<b>SUBTOTAL - EARTHWORK</b>				<b>\$5,100</b>	
<b>SOIL EROSION SEDIMENT CONTROL</b>						
	Inlet/CB filter	14	EA	\$100.00	\$1,400.00	1 per drainage structure
					\$0.00	
	<b>SUBTOTAL - EROSION CONTROL</b>				<b>\$1,400</b>	
<b>STORM SEWER</b>						
	Underdrain, Perforated PVC, 8" Dia	725	LF	\$25.00	\$18,125.00	Wrapped
	Sewer, PVC, 8" Dia	160	LF	\$40.00	\$6,400.00	Road crossings
	Dr Structure Tap, 8 inch	1	EA	\$350.00	\$350.00	
	Dr Structure, 24" Dia	14	EA	\$1,350.00	\$18,900.00	
	Dr Structure Cover, Type E	14	EA	\$300.00	\$4,200.00	
					\$0.00	
	<b>SUBTOTAL - STORM SEWER</b>				<b>\$51,225</b>	
<b>CONCRETE PAVEMENTS</b>						
	6" nonreinf Conc. driveway	145	SY	\$50.00	\$7,250.00	11 ea x 17' ave width x 7'
					\$0.00	
	<b>SUBTOTAL - CONCRETE PAVEMENT</b>				<b>\$7,250</b>	
<b>LANDSCAPING</b>						
	Topsoil surf., furnish, 2"	790	SY	\$4.00	\$3,160.00	7' wide from sidewalk
	Hydroseed or Class "A" sodding	790	SY	\$5.00	\$3,950.00	
	Watering, Sod or Seed	30	Units	\$100.00	\$3,000.00	37 gals / syd (790 x 37 / 100)
					\$0.00	
	<b>SUBTOTAL - LANDSCAPING</b>				<b>\$10,110</b>	
<b>MOBILIZATION AND MINOR TRAFFIC CONTROL</b>						
	Mobilization, Max 3%	0	LS	\$2,442	\$0	Included in Road Paving
	Minor Traffic Control Devices, Max 3%	0	LS	\$2,442	\$0	Included in Road Paving
	<b>SUBTOTAL - MOBILIZATION AND MINOR TRAFFIC CONTROL</b>				<b>\$0</b>	
	<b>SUBTOTAL CONSTRUCTION COST</b>				<b>\$81,400</b>	

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<b>SUBTOTAL CONSTRUCTION COST</b>					<b>\$81,400</b>	
<b>CONSTRUCTION CONTINGENCY</b>				<b>15%</b>	<b>\$12,210</b>	
<b>SUBTOTAL ENGINEERING, BIDDING, INSPECTION</b>				<b>15%</b>	<b>\$14,042</b>	
<b>TOTAL ESTIMATED COST</b>					<b>\$107,652</b>	

Specific work items that ARE NOT included in this estimate include:

It should be pointed out that since we have no control over the Contractor's method of determining prices, competitive bidding or market conditions, our opinion of the probable construction cost as provided for herein is made on the basis of experience and represents our best judgment as design professionals. We cannot guarantee that the final construction cost will not vary from this estimate.

Respectfully,  
GIFFELS WEBSTER

Estimate Prepared By: Scott A. Ringler, PE  
Date: June 27, 2021

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