

**BOARD OF PUBLIC WORKS AND SAFETY
Agenda Request Form**

(Form B-01-2012)

Organizations and individuals are asked to submit a request form and supporting documents to be placed on the agenda. You will be contacted by the City confirming the date of the meeting in which your request will be heard. Please make sure that your contact information is accurate in case we need to get in touch with you. The Board of Works meets on the 1st and 3rd Monday of each month at 5:00 p.m. in City Hall located at 70 E. Monroe Street.

Date Submitted:	October 31, 2018	Meeting Date:	November 5, 2018
Contact Information:			
Requested by:	Mark Richards, City Engineer		
On Behalf of Organization or Individual: City of Franklin			
Telephone:	317-736-3631		
Email address:	mrichards@franklin.in.gov		
Mailing Address:	70 E. Monroe Street, Franklin, IN 46131		
Describe Request:			
Request approval of surety calculation sheet and accompanying unit prices.			
List Supporting Documentation Provided:			
Spreadsheet for calculating surety amounts (pdf version attached)			
Unit prices for construction estimates			
Who will present the request?			
Name:	Mark Richards	Telephone:	317-736-3631

In order for an individual and/or agency to be considered for new business on the Board of Works agenda, this reservation form and supporting documents must be received in the Mayor's office no later than 4:00 p.m. on the Wednesday before the meeting.



Take-Off Sheet for Surety Estimates

Project Name: _____
 Address: _____

Docket: PC _____

Street Trees, Landscaping & Street Lights

	Quantity		Unit Price		Gross Price
<i>Plantings</i> Street trees, 2.5 in. (min.) caliper		ea @	\$500.00	/ ea =	
Shrubs, 18 in. (min.) height		ea @	\$50.00	/ ea =	
<i>Mounding</i> Soil fill		cy @	\$20.00	/ cy =	
Topsoil, 6 in. (min.) depth		cy @	\$30.00	/ cy =	
<i>Street Lights</i> Street lights		ea @	\$2,750.00	/ ea =	
Street Trees, Landscaping & Street Lights TOTAL:					

Storm Sewers, Swales & Underdrains

<i>Structures</i>	Quantity		Unit Price		Gross Price
Curb Inlets		ea @	\$1,400.00	/ ea =	
Std. Manholes Ave. Depth =		ea @		/ ea =	
Sp. Manholes		ea @		/ ea =	
Sp. Structure		ea @		/ ea =	
HDS Unit		ea @		/ ea =	
Video Inspection, structures & pipe		lf @	\$1.00	/ lf =	
Finish grading, earthen swales		lf @	\$1.55	/ lf =	
Paved Side Ditch		sq yd @	\$84.50	/ sy =	
Concrete Toe Wall		ea @	\$250.00	/ ea =	
Concrete Slope Wall		sq yd @	\$140.00	/ sy =	
Riprap		tons @	\$20.00	/ ton =	
Granular backfill (B Borrow, etc.)		cy @	\$17.00	/ cy =	
4" Sump Pump Lateral		lf @	\$10.00	/ lf =	
6" Underdrain		lf @	\$10.50	/ lf =	

	Size	Type	Depth (ft)			
<i>Pipe</i>				lf @		/ lf =
				lf @		/ lf =
				lf @		/ lf =
				lf @		/ lf =
				lf @		/ lf =
				lf @		/ lf =
				lf @		/ lf =
				lf @		/ lf =
				lf @		/ lf =
				lf @		/ lf =
				lf @		/ lf =
<i>End Sections</i>				ea @		/ ea =
				ea @		/ ea =
				ea @		/ ea =
				ea @		/ ea =
				ea @		/ ea =
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				ea @		/ ea =
				ea @		/ ea =

Storm Sewers TOTAL:

Earthwork & Erosion Control

		Quantity		Unit Price		Gross Price
<i>Seeding</i>	Mulch seeding		sq yd @	\$0.85	/ sq yd =	
	Hydro-seed		sq yd @	\$1.75	/ sq yd =	
<i>Sod</i>	Sod		sq yd @	\$5.50	/ sq yd =	
<i>Other</i>	Construction entrance		ea @	\$4,000.00	/ ea =	
	Concrete washout		ea @	\$1,000.00	/ ea =	
	Erosion control blanket		sq yd @	\$1.75	/ sq yd =	
	Straw Bales		ea @	\$12.50	/ ea =	
	Erosion control log		lf @	\$20.00	/ lf =	
	Silt Fence		lf @	\$2.00	/ lf =	
	Sand Bags		inlets @	\$75.00	/ inlet =	
	Inlet protection bag / basket		ea @	\$210.00	/ ea =	
	Welded Wire Inlet Protector		ea @	\$78.00	/ ea =	
	Mulch/Rock-filled Knit Bag		ea @	\$68.00	/ ea =	
	Cut / Fill		cy @	\$3.05	/ cy =	
<i>Mass Grading</i>	Other - list				=	
	Other - list				=	
	Other - list				=	
Erosion Control TOTAL:						

Sanitary Sewers

		Quantity		Unit Price		Gross Price
<i>Laterals</i>	6" PVC service laterals		lf @	\$15.00	/ lf =	
	6" Ductile iron service laterals		lf @	\$28.00	/ lf =	
	4 ft. diameter manhole, < 6' depth		ea @	\$1,650.00	/ ea =	
	4 ft. diameter manhole, 6' - 8' depth		ea @	\$2,000.00	/ ea =	
	4 ft. diameter manhole, 8' - 10' depth		ea @	\$2,200.00	/ ea =	
	4 ft. diameter manhole, 10' - 12' depth		ea @	\$2,540.00	/ ea =	
	4 ft. diameter manhole, 12' - 14' depth		ea @	\$2,900.00	/ ea =	
	4 ft. diameter manhole, >14' depth		ea @	\$3,270.00	/ ea =	
<i>Backfill</i>	Granular backfill (#6 - #9 stone)		tons @	\$20.50	/ ton =	
	Granular backfill (B Borrow)		cy @	\$17.00	/ cy =	
	Granular backfill (#53 stone)		tons @	\$20.00	/ ton =	
<i>Other</i>	Temporary cleanouts		ea @	\$300.00	/ ea =	
	8" x 6" wyes		ea @	\$75.00	/ ea =	
	10" x 6" wyes		ea @	\$150.50	/ ea =	
	12" x 6" wyes		ea @	\$235.00	/ ea =	
	Sp. structures		ea @		/ ea =	
	Sp. structures		ea @		/ ea =	
	Sp. structures		ea @		/ ea =	
<i>Pipe</i>	Size	Type	Depth			
				lf @	/ lf =	
				lf @	/ lf =	
				lf @	/ lf =	
				lf @	/ lf =	
				lf @	/ lf =	
				lf @	/ lf =	
				lf @	/ lf =	
				lf @	/ lf =	
				lf @	/ lf =	
				lf @	/ lf =	
				lf @	/ lf =	
Sanitary Sewers TOTAL:						

Streets

	Quantity		Unit Price	Gross Price
Concrete Streets With integral curbs		sq yd @	\$35.00 / sq yd =	
Asphalt Streets Curb and gutter		lf @	\$18.00 / lf =	
6" Underdrain w/geotextile		lf @	\$12.00 / lf =	
Subgrade stabilization, lime		sq yd @	\$6.50 / sq yd =	
Subgrade stabilization, cement		sq yd @	\$9.00 / sq yd =	
Base stone compacted, #2		tons @	\$17.00 / ton =	
Base stone compacted, #53		tons @	\$20.00 / ton =	
Bituminous base		tons @	\$54.00 / ton =	
Bituminous binder		tons @	\$59.00 / ton =	
Bituminous surface		tons @	\$75.00 / ton =	
Bituminous tack coat		gal. @	\$2.50 / gal. =	
Guardrail		lf @	\$34.00 / lf =	
Streets TOTAL:				

Sidewalks

	Quantity		Unit Price	Gross Price
Concrete sidewalk		sq yd @	\$38.00 / sq yd =	
Asphalt pathway		sq yd @	\$30.00 / sq yd =	
ADA ramp		ea @	\$800.00 / ea =	
Sidewalks TOTAL:				

Survey Monuments & Street Signs

	Quantity		Unit Price	Gross Price
Centerline monuments		ea @	\$200.00 / ea =	
Perimeter monuments		ea @	\$250.00 / ea =	
Lot corner monuments		ea @	\$50.00 / ea =	
Standard Street name signs		ea @	\$365.00 / ea =	
Traffic control signs		ea @	\$275.00 / ea =	
Traffic control barricades, permanent		ea @	\$495.00 / ea =	
Signs & Monuments TOTAL:				

Guarantee Summary

		Total Estimated Cost	Performance Guarantee (120% of Total Estimated Cost)	Maintenance Guarantee (25% of Total Estimated Cost)
Guarantee 1	Street Trees, Landscaping & Street Lights		x 1.20 =	x 0.25 =
Guarantee 2	Storm Sewers, Swales & Underdrains		x 1.20 =	x 0.25 =
Guarantee 3	Earthwork & Erosion Control		x 1.20 =	x 0.25 =
Guarantee 4	Sanitary Sewers		x 1.20 =	x 0.25 =
Guarantee 5	Streets		x 1.20 =	x 0.25 =
Guarantee 6	Sidewalks		x 1.20 =	x 0.25 =
Guarantee 7	Survey Monuments & Street Signs		x 1.20 =	x 0.25 =

Comments:

Bond Estimates prepared by:

Signature / Title

Date

Printed Name

Reviewed and Approved by:

Franklin Planning & Engineering

Date



Unit Construction Prices

October 30, 2018

Sanitary Sewers

Unit prices are per lineal foot and depth.

Example: 6" PVC at a depth of 11 ft., unit price would be: (Base price + 10' - 12' price) = (\$15.00 + \$6.00) = \$21.00

PVC-SDR 35 ASTM D-3034

Diameter	Base Price 4' - 6' Depth	Depth 6' - 8'	Depth 8' - 10'	Depth 10' - 12'	Depth 12' - 14'	Depth Over 14'
6"	\$15.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
8"	\$17.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
10"	\$24.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
12"	\$26.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
15"	\$33.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
18"	\$40.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft

6" PVC Service Lateral \$15.00 / lf

Ductile Iron ANSI/ASTM A746

Diameter	Base Price 4' - 6' Depth	Depth 6' - 8'	Depth 8' - 10'	Depth 10' - 12'	Depth 12' - 14'	Depth Over 14'
6"	\$28.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
8"	\$34.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
10"	\$44.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
12"	\$57.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
14"	\$80.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
16"	\$94.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
18"	\$108.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft

6" DI Service Lateral \$28.00 / lf

4 ft. Diameter Manhole

4' - 6' depth	\$1,650.00 / each
6' - 8' depth	\$2,000.00 / each
8' - 10' depth	\$2,200.00 / each
10' - 12' depth	\$2,540.00 / each
12' - 14' depth	\$2,900.00 / each
Over 14' depth	\$3,270.00 / each
Temporary cleanouts	\$300.00 / each

Wyes

8" x 6"	\$75.00 / each
10" x 6"	\$150.50 / each
12" x 6"	\$235.00 / each

Granular Backfill

#6 - #9 stone	\$20.50 / ton
B Borrow (INDOT)	\$17.00 / cy
#53 stone	\$20.00 / ton

Earthwork & Erosion Control

Mass Grading

Cut / Fill	\$3.05 / cy
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Erosion Control

Mulch seeding	\$0.85 / sy
Hydroseeding	\$1.75 / sy
Sod	\$5.50 / sy
Erosion control blanket	\$1.75 / sy
Erosion control log	\$20.00 / lf
Straw bales	\$12.50 / each
Silt fence	\$2.00 / lf
Sand bags	\$75.00 / inlet
Inlet protection bag / basket	\$210.00 / each
Welded wire inlet protector	\$78.00 / each
Mulch/rock-filled knit bag	\$68.00 / each
Stable construction entrance	\$4,000.00 / each
Concrete washout	\$1,000.00 / each

Streets

Concrete Streets

With integral curbing	\$35.00 / sq yd
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Asphalt Streets

Curb and gutter	\$18.00 / lf
6 inch underdrain w/geotextile	\$12.00 / lf
Subgrade modification, lime	\$6.50 / sq yd
Subgrade modification, cement	\$9.00 / sq yd
Base stone compacted, #2	\$17.00 / ton
Base stone compacted, #53	\$20.00 / ton
Bituminous base	\$54.00 / ton
Bituminous binder	\$59.00 / ton
Bituminous surface	\$75.00 / ton
Bituminous tack coat	\$2.50 / gal
Guardrail	\$34.00 / lf

Sidewalks and Paths

Concrete sidewalk	\$38.00 / sq yd
Asphalt pathway	\$30.00 / sq yd
ADA ramp	\$800.00 / each

Surveying Monuments & Street Signs

Centerline monuments	\$200.00 / each	Standard street name signs, 2 blade ¹	\$365.00 / each
Perimeter monuments	\$250.00 / each	Traffic control signs ¹	\$275.00 / each
Lot corner monuments	\$50.00 / each	Traffic control barricades ¹	\$495.00 / each

¹ Must meet current version of MUTCD



Unit Construction Prices

October 30, 2018

Storm Sewers

Unit prices are per lineal foot and depth.

Example: 18" RCP at a depth of 11 ft., unit price would be: (Base price + 10' - 12' price) = (\$21.50 + \$6.00) = \$27.50

Dual-Wall Poly Pipe, AASHTO M-252 and AASHTO M-294

Diameter	Base Price 4' - 6' Depth	Depth 6' - 8'	Depth 8' - 10'	Depth 10' - 12'	Depth 12' - 14'	Depth Over 14'
12"	\$10.25	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
15"	\$13.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
18"	\$21.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
24"	\$32.90	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
30"	\$48.30	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
36"	\$63.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
42"	\$90.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
48"	\$111.74	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
54"	\$140.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
60"	\$163.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft

Reinforced Concrete Pipe (RCP), ASTM C-76

Diameter	Base Price 4' - 6' Depth	Depth 6' - 8'	Depth 8' - 10'	Depth 10' - 12'	Depth 12' - 14'	Depth Over 14'
12"	\$20.90	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
15"	\$26.40	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
18"	\$30.65	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
21"	\$39.75	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
24"	\$49.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
27"	\$59.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
30"	\$72.90	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
33"	\$91.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
36"	\$109.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
42"	\$143.15	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
48"	\$181.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
54"	\$222.50	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft
60"	\$280.00	+\$2.00	+\$4.00	+\$6.00	+\$8.00	+\$8.00 + \$1.00/ft

End Sections

Size	Concrete	Polyethylene
12"	\$675.00	\$194.00
15"	\$725.00	\$250.00
18"	\$775.00	\$396.00
21"	\$875.00	N/A
24"	\$975.00	\$706.00
27"	\$1,100.00	N/A
30"	\$1,300.00	\$1,034.00
36"	\$1,600.00	\$1,118.00
42"	\$2,000.00	N/A
48"	\$2,400.00	N/A

Structures

Curb inlets	\$1,400.00 / each
Standard Manholes ²	\$1,330.00 / each
Earthen swales	\$1.55 / lf
Paved side ditch	\$84.50 / sq yd
Concrete toe wall	\$250.00 / ea
Concrete slope wall	\$140.00 / sq yd
Riprap	\$20.00 / ton
Granular backfill (B Borrow)	\$17.00 / cy
4" sump pump lateral	\$10.00 / lf
6" underdrain	\$10.50 / lf

Special manholes or structures³

Hydrodynamic Water Quality Unit³

² Add \$75.00 per foot of total depth over 6 ft.

³ Must provide suitable documentation of cost

Video Inspection/Documentation of Storm Sewers (non-residential projects only, maintenance not required) \$1.00 per lf, \$500 minimum

Street Trees, Landscaping & Street Lights

Plantings

Street Trees, 2.5 inch (min.) caliper	\$500.00 / each
Shrubs, 18 inch (min.) height	\$50.00 / each

Mounding

Soil fill	\$20.00 / cy
Topsoil, 6 inches (min.) depth	\$30.00 / cy

Street Lights

Street lights	\$2,750.00 / each
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