

**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:	<input type="text"/>
Address:	<input type="text"/>
	<input type="text"/>
	<input type="text"/>

Docket: PC

Street Trees, Landscaping & Street Lights

<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 =	

Storm Sewers. Swales & Underdrains

Structures	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		If @ \$1.00	/ If =
Finish grading, earthen swales		If @ \$1.55	/ If =
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		If @ \$10.00	/ If =
6" Underdrain		If @ \$10.50	/ If =

Earthwork & Erosion Control

Earthwork & Erosion Control		Quantity	Unit Price	Gross Price
Seeding	Mulch seeding		sq yd @ \$0.85	/ sq yd =
	Hydro-seed		sq yd @ \$1.75	/ sq yd =
Sod	Sod		sq yd @ \$5.50	/ sq yd =
Other	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		If @ \$20.00	/ If =
	Silt Fence		If @ \$2.00	/ If =
	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 =
Mass Grading	Cut / Fill		cy @ \$3.05	/ cy =
Miscellaneous	Other - list			=
	Other - list			=
	Other - list			=
Erosion Control TOTAL:				

Sanitary Sewers

		Quantity	Unit Price	Gross Price
Laterals	6" PVC service laterals		If @ \$15.00	/ lf =
	6" Ductile iron service laterals		If @ \$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 =
	Granular backfill (#6 - #9 stone)		tons @ \$20.50	/ ton =
	Granular backfill (B Borrow)		cy @ \$17.00	/ cy =
Backfill	Granular backfill (#53 stone)		tons @ \$20.00	/ ton =
	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 @	
	Sp. structures		ea @	
	Sp. structures		ea @	
Pipe	Size	Type	Depth	
				If @
				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:

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Signature / Title

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Printed Name

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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: $(\text{Base price} + 10' - 12' \text{ price}) = (\$15.00 + \$6.00) = \21.00 **PVC-SDR 35 ASTM D-3034**

Diameter	Base Price	Depth	Depth	Depth	Depth	Depth
4' – 6' Depth	6' – 8'	8' – 10'	10' – 12'	12' – 14'	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	Depth	Depth	Depth	Depth	Depth
4' – 6' Depth	6' – 8'	8' – 10'	10' – 12'	12' – 14'	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
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: $(\text{Base price} + 10' - 12' \text{ price}) = (\$21.50 + \$6.00) = \27.50 **Dual-Wall Poly Pipe, AASHTO M-252 and AASHTO M-294**

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

Reinforced Concrete Pipe (RCP), ASTM C-76

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

End Sections

Size	Concrete	Polyethylene	Structures
12"	\$675.00	\$194.00	Curb inlets \$1,400.00 / each
15"	\$725.00	\$250.00	Standard Manholes ² \$1,330.00 / each
18"	\$775.00	\$396.00	Earthen swales \$1.55 / lf
21"	\$875.00	N/A	Paved side ditch \$84.50 / sq yd
24"	\$975.00	\$706.00	Concrete toe wall \$250.00 / ea
27"	\$1,100.00	N/A	Concrete slope wall \$140.00 / sq yd
30"	\$1,300.00	\$1,034.00	Riprap \$20.00 / ton
36"	\$1,600.00	\$1,118.00	Granular backfill (B Borrow) \$17.00 / cy
42"	\$2,000.00	N/A	4" sump pump lateral \$10.00 / lf
48"	\$2,400.00	N/A	6" underdrain \$10.50 / lf

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	Mounding
Street Trees, 2.5 inch (min.) caliper	\$500.00 / each
Shrubs, 18 inch (min.) height	\$50.00 / each
	Soil fill \$20.00 / cy
	Topsoil, 6 inches (min.) depth \$30.00 / cy
Street Lights	
	Street lights \$2,750.00 / each