

**MEMORANDUM**

625 Forest Edge Drive, Vernon Hills, IL 60061

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www.gha-engineers.com

To: Village President & Board of Trustees  
 Mr. Bill Balling, Interim Village Manager  
 Village of Long Grove

Fr: Mr. Geoffrey L. Perry, P.E. – Village Engineer

Date: November 5, 2020

Re: Phase III Engineering Cost Review  
 N. Krueger Road from IL Route 22 to Gilmer Road  
 Village of Long Grove

To continue the discussion of the current costs, specifically the Phase III Construction Engineering, for the North Krueger Road Reconstruction project, please see attached the following summary table:

	12/10/19 BOT Meeting	1/10/20 DRAFT Submittal to LCCOM & IDOT	10/27/20 BOT Meeting	11/05/20 Revised Proposal
Phase III Engineering Proposal	\$145,773.00	\$153,862.00	\$200,490.00	\$181,490.00
% Increase over previous	N/A	5.55%	30.31%	-9.48%
Manhour Estimate	1,413	1,573	2,011	1,799
Engineer's Opinion of Probable Construction Cost	\$1,482,550.00	\$1,632,925.00	\$1,682,948.00	\$1,682,948.00
% Increase over previous	N/A	10.14%	3.06%	0.00%
Phase III Eng. % of EOPC	9.83%	9.42%	11.91%	10.78%
% Increase over previous	N/A	-4.17%	26.43%	-9.48%
<b>Village Responsibility:</b>				
Construction Engineering (20%):	\$29,154.60	\$30,772.40	\$40,098.00	\$36,298.00
Construction:	\$500,030.00	\$536,833.00	\$547,989.60	\$547,989.60
<b>Total:</b>	<b>\$529,184.60</b>	<b>\$567,605.40</b>	<b>\$588,087.60</b>	<b>\$584,287.60</b>

A few notes regarding the costs reported above:

- In project planning, Construction Engineering Costs are estimated to be between 10% and 14.5% of a project's Engineers Opinion of Probable Construction Costs. At time of the proposal, the anticipated costs are based on a manhour estimate
- The most significant driver of costs increase is the manhour estimate
- Labor is paid at actual labor cost \* GHA's IDOT multiplier. GHA's current IDOT multiplier is 2.60. (Ratio of project expenses divided by labor costs)
- Proposal includes a 3% escalator per year; that will not be used due to the expected 3-4 month duration of the project
- The Construction (Phase III) Engineering will be paid 80% federal and 20% local
- The Construction Costs are not split exactly 80% / 20% due to the southern portion of the project being entirely locally-funded

Tasks	January 10, 2020			November 5, 2020			Change		
	Hours	Billing Rate	Total	Hours	Billing Rate	Total	Hours	Billing Rate	Total
<b>Preconstruction Coordination</b>									
CE VI	4	\$215.31	\$861	4	\$207.75	\$831	0	-\$7.56	(\$30)
CE IV			\$0	4	\$176.38	\$706	4		\$706
ET V	16	\$175.60	\$2,810	16	\$176.63	\$2,826	0	\$1.03	\$16
ET IV	16	\$117.56	\$1,881	16	\$119.13	\$1,906	0	\$1.57	\$25
ET III	80	\$90.81	\$7,265	80	\$95.06	\$7,605	0	\$4.25	\$340
AD 1	8	\$69.50	\$556	8	\$74.50	\$596	0	\$5.00	\$40
<b>Task Subtotals:</b>	<b>124</b>		<b>\$13,373</b>	<b>128</b>		<b>\$14,470</b>	<b>4</b>		<b>\$1,097</b>
<b>Preconstruction Meeting</b>									
CE VI	4	\$215.31	\$861	4	\$207.75	\$831	0	-\$7.56	(\$30)
CE IV			\$0	4	\$176.38	\$706	4		\$706
ET V	4	\$175.60	\$702	4	\$176.63	\$707	0	\$1.03	\$5
ET III	8	\$90.81	\$727	8	\$95.06	\$761	0	\$4.25	\$34
AD 1	2	\$69.50	\$139	2	\$74.50	\$149	0	\$5.00	\$10
<b>Task Subtotals:</b>	<b>18</b>		<b>\$2,429</b>	<b>22</b>		<b>\$3,154</b>	<b>4</b>		<b>\$725</b>
<b>Layout Verification</b>									
LS IV	8	\$143.25	\$1,146	8	\$150.75	\$1,206	0	\$7.50	\$60
LS II	45	\$109.62	\$4,933	45	\$117.88	\$5,304	0	\$8.26	\$371
<b>Task Subtotals:</b>	<b>53</b>		<b>\$6,079</b>	<b>53</b>		<b>\$6,510</b>	<b>0</b>		<b>\$431</b>
<b>Construction Observation (RE)</b>									
CE VI	16	\$215.31	\$3,445	16	\$207.75	\$3,324	0	-\$7.56	(\$121)
CE IV			\$0	16	\$176.38	\$2,822	16		\$2,822
ET V	30	\$175.60	\$5,268	32	\$176.63	\$5,652	2	\$1.03	\$384
ET III	750	\$90.81	\$68,108	800	\$95.06	\$76,051	50	\$4.25	\$7,943
Reimbursable Expenses (Print, Mileage, etc.)			\$5,075			\$5,075			\$0
Material Testing (Subconsultant)			\$4,790			\$4,790			\$0
<b>Task Subtotals:</b>	<b>796</b>		<b>\$86,686</b>	<b>864</b>		<b>\$97,714</b>	<b>68</b>		<b>\$11,028</b>
<b>Construction Observation (Inspector)</b>									
ET I	320	\$58.12	\$18,598	450	\$66.65	\$29,991	130	\$8.53	\$11,393
<b>Task Subtotals:</b>	<b>320</b>		<b>\$18,598</b>	<b>450</b>		<b>\$29,991</b>	<b>130</b>		<b>\$11,393</b>
<b>Progress Meetings</b>									
CE IV			\$0	30	\$176.38	\$5,291	30	\$176.38	\$5,291
ET III			\$0	30	\$95.06	\$2,852	30	\$95.06	\$2,852
ET V	30	\$175.60	\$5,268				-30	-\$175.60	(\$5,268)
<b>Task Subtotals:</b>	<b>30</b>		<b>\$5,268</b>	<b>60</b>		<b>\$8,143</b>	<b>30</b>		<b>\$2,875</b>
<b>Traffic Control Inspection (Nights)</b>									
ET III	24	\$90.82	\$2,180	24	\$95.06	\$2,281	0		\$101
<b>Task Subtotals:</b>	<b>24</b>		<b>\$2,180</b>	<b>24</b>		<b>\$2,281</b>	<b>0</b>		<b>\$101</b>
<b>Punchlist &amp; Final Inspections</b>									
ET III	20	\$90.82	\$1,816	20	\$95.06	\$1,901	0	\$4.25	\$85
<b>Task Subtotals:</b>	<b>20</b>		<b>\$1,816</b>	<b>20</b>		<b>\$1,901</b>	<b>0</b>		<b>\$85</b>
<b>Record Drawings</b>									
LS IV	4	\$143.25	\$573	4	\$150.75	\$603	0	\$7.50	\$30
LS II	8	\$109.62	\$877	8	\$117.88	\$943	0	\$8.26	\$66
ET III	16	\$90.82	\$1,453	16	\$95.06	\$1,521	0	\$4.25	\$68
<b>Task Subtotals:</b>	<b>28</b>		<b>\$2,903</b>	<b>28</b>		<b>\$3,067</b>	<b>0</b>		<b>\$164</b>
<b>Project Closure</b>									
ET III	160	\$90.82	\$14,530	150	\$95.06	\$14,259	-10	\$4.25	(\$271)
<b>Task Subtotals:</b>	<b>160</b>		<b>\$14,530</b>	<b>150</b>		<b>\$14,259</b>	<b>-10</b>	<b>0</b>	<b>(\$271)</b>
<b>Project Totals:</b>	<b>1573</b>		<b>\$153,862</b>	<b>1799</b>		<b>\$181,490</b>	<b>226</b>		<b>\$27,628</b>
<b>Totals by Labor Category</b>									
CE VI	24	\$215.31	\$5,167	24	\$207.75	\$4,986	0	-\$7.56	(\$181)
CE IV	0		\$0	54	\$176.38	\$9,525	54		\$9,525
LS IV	12	\$143.25	\$1,719	12	\$150.75	\$1,809	0	\$7.50	\$90
LS II	53	\$109.62	\$5,810	53	\$117.88	\$6,247	0	\$8.26	\$437
ET V	80	\$175.60	\$14,048	52	\$176.63	\$9,185	-28	\$1.03	(\$4,863)
ET IV	16	\$117.56	\$1,881	16	\$119.13	\$1,906	0	\$1.57	\$25
ET III	1058	\$90.82	\$96,079	1128	\$95.06	\$107,231	40	\$4.25	\$11,152
ET I	320	\$58.12	\$18,598	450	\$66.65	\$29,991	130	\$8.53	\$11,393
AD 1	10	\$69.50	\$695	10	\$74.50	\$745	0	\$5.00	\$50
Reimbursables			\$5,075			\$5,075			\$0
Material Testing			\$4,790			\$4,790			\$0
<b>Task Subtotals:</b>	<b>1573</b>		<b>\$153,862</b>	<b>1799</b>		<b>\$181,490</b>	<b>196</b>		<b>\$27,628</b>



## PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME  
 PRIME/SUPPLEMENT  
 Prepared By

Gewalt Hamilton Associates, Inc.

DATE 10/06/20  
 PTB-ITEM# 1

CONTRACT TERM	12	MONTHS	OVERHEAD RATE	160.00%
START DATE	4/15/2021		COMPLEXITY FACTOR	0
RAISE DATE	5/15/2021		% OF RAISE	3%
END DATE	4/14/2022			

### ESCALATION PER YEAR

Year	First date	Last date	Months % of Contract
0	4/15/2021	5/15/2021	1 8.33%
1	5/16/2021	4/15/2022	11 94.42%

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The total escalation = 2.75%

### PAYROLL RATES

Gewalt Hamilton Associ DATE

09/13/20

FIRM NAME  
 PRIME/SUPPLEMENT  
 PTB-ITEM #

0  
 1

ESCALATION FACTOR

2.75%

Note: Rates should be capped on the AVG 1 tab as necessary

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
CE VI	\$75.38	\$70.00
CE V	\$69.65	\$70.00
CE IV	\$57.80	\$59.39
CE III	\$47.90	\$49.22
CE II	\$34.26	\$35.20
CE I	\$27.78	\$28.54
LS IV	\$49.38	\$50.74
LS II	\$38.63	\$39.69
GISP III	\$55.00	\$56.51
EC II	\$32.75	\$33.65
ET V	\$57.88	\$59.47
ET IV	\$39.04	\$40.11
ET III	\$31.15	\$32.01
ET II	\$28.53	\$29.31
ET I	\$21.84	\$22.44
AD I	\$24.40	\$25.07



## AVERAGE HOURLY PROJECT RATES

FIRM Gewalt Hamilton Associates, Inc.  
 PTB-ITEM# 1  
 PRIME/SUPPLEMENT 0

DATE 10/06/20  
 SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Preconstruction Coordination			Preconstruction Meeting			Layout Verification			Const Obs			Const Obs (Inspector)		
		Hours	% Part	Wgt'd Avg	Hours	% Part	Wgt'd Avg	Hours	% Part	Wgt'd Avg	Hours	% Part	Wgt'd Avg	Hours	% Part	Wgt'd Avg	Hours	% Part	Wgt'd Avg
CE VI	70.00	24.0	1.19%	0.84	4	3.03%	2.12	4	22.22%	15.56						16	1.75%	1.22	
CE V	70.00	0.0														36	3.93%	2.33	
CE IV	59.39	44.0	2.19%	1.30	8	6.06%	3.60												
CE III	49.22	0.0																	
CE II	35.20	0.0																	
CE I	28.54	0.0																	
LS IV	50.74	12.0	0.60%	0.30								8	15.09%	7.66					
LS II	39.69	53.0	2.64%	1.05								45	84.91%	33.70					
GISP III	56.51	0.0																	
EC II	33.65	0.0																	
ET V	59.47	14.0	5.67%	3.37	16	12.12%	7.21	4	22.22%	13.22					64	6.99%	4.16		
ET IV	40.11	16.0	0.80%	0.32	16	12.12%	4.86												
ET III	32.01	1,098.0	54.60%	17.48	80	60.61%	19.40	8	44.44%	14.23					800	87.34%	27.95		
ET II	29.31	0.0																	
ET I	22.44	640.0	31.82%	7.14												640	100.00%	22.44	
AD I	25.07	10.0	0.50%	0.12	8	6.06%	1.52	2	11.11%	2.79									
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		2011.0	100%	\$31.92	132.0	100.00%	\$38.71	18.0	100%	\$45.78	53.0	100%	\$41.36	916.0	100%	\$35.67	640.0	100%	\$22.44

## AVERAGE HOURLY PROJECT RATES

FIRM Gewalt Hamilton Associates, Inc.

PTB-ITEM# 1

PRIME/SUPPLEMENT 0

DATE 10/06/20

SHEET 2 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Progress meetings			Traffic Control Insp (Nights)			Punch Lists			Record Drawings			Project Closure			Hours	% Part.	Wgtd Avg
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
CE VI	70.00																		
CE V	70.00																		
CE IV	59.39																		
CE III	49.22																		
CE II	35.20																		
CE I	28.54																		
LS IV	50.74																		
LS II	39.69																		
GISP III	56.51																		
EC II	33.65																		
ET V	59.47	30	100.00%	59.47															
ET IV	40.11																		
ET III	32.01				24	100.00%	32.01	20	100.00%	32.01	16	57.14%	18.29	150	100.00%	32.01			
ET II	29.31																		
ET I	22.44																		
AD I	25.07																		
<b>TOTALS</b>		30.0	100%	\$59.47	24.0	100%	\$32.01	20.0	100%	\$32.01	28.0	100%	\$36.88	150.0	100%	\$32.01	0.0	0%	\$0.00



	Principal	CE VI	CE V	CE IV	CE III	CE II	CE I	LS IV	LS II	GSP II	EC II	ET V	ET IV	ET III	ET II	ET I	AD I	Total Hours
<b>I. Phase III Construction Engineering</b>																		
Preconstruction Coordination		4		8								16	16	80			8	132
Preconstruction Meeting		4										4		8			2	18
Layout Verification								8	45									53
Construction Observation (RE)		16		36								64		800		640		916
Construction Observation (Inspector 1)																		640
Progress Meetings												30						30
Traffic Control Inspection (Nights)														24				24
Punch List & Final Inspections								4	8					20				20
Record Drawings														16				16
Project Closure														150				150
	I. Category Subtotal	0	24	0	44	0	0	0	53	0	0	114	16	1098	0	640	10	2011
<b>II. Category</b>																		
Total Labor	0	24	0	44	0	0	0	12	53	0	0	114	16	1098	0	640	10	2011



## PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME  
 PRIME/SUPPLEMENT  
 Prepared By

Gewalt Hamikon Associates, Inc.

DATE 11/05/20  
 PTB-ITEM# 1

CONTRACT TERM	12	MONTHS	OVERHEAD RATE	160.00%
START DATE	4/15/2021		COMPLEXITY FACTOR	0
RAISE DATE	5/15/2021		% OF RAISE	3%
END DATE	4/14/2022			

### ESCALATION PER YEAR

Year	First date	Last date	Months % of Contract
0	4/15/2021	5/15/2021	1 8.33%
1	5/16/2021	4/15/2022	11 94.42%

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The total escalation = 2.75%

# PAYROLL RATES

Gewalt Hamilton Associ DATE

09/13/20

FIRM NAME  
PRIME/SUPPLEMENT  
PTB-ITEM #

0  
1

ESCALATION FACTOR

2.75%

Note: Rates should be capped on the AVG 1 tab as necessary

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
CE VI	\$75.38	\$70.00
CE V	\$69.65	\$70.00
CE IV	\$57.80	\$59.39
CE III	\$47.90	\$49.22
CE II	\$34.26	\$35.20
CE I	\$27.78	\$28.54
LS IV	\$49.38	\$50.74
LS II	\$38.63	\$39.69
GISP III	\$55.00	\$56.51
EC II	\$32.75	\$33.65
ET V	\$57.88	\$59.47
ET IV	\$39.04	\$40.11
ET III	\$31.15	\$32.01
ET II	\$28.53	\$29.31
ET I	\$21.84	\$22.44
AD I	\$24.40	\$25.07



### AVERAGE HOURLY PROJECT RATES

**FIRM** Gewalt Hamilton Associates, Inc.  
**PTB-ITEM#** 1  
**PRIME/SUPPLEMENT** 0

**DATE** 11/05/20  
**SHEET** 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Preconstruction Coordinating			Preconstruction Meeting			Layout Verification			Const Obs			Const Obs (Inspector)		
		Hours	% Part	Wgtd Avg	Hours	% Part	Wgtd Avg	Hours	% Part	Wgtd Avg	Hours	% Part	Wgtd Avg	Hours	% Part	Wgtd Avg	Hours	% Part	Wgtd Avg
CE VI	70.00	24.0	1.33%	0.93	4	3.13%	2.19	4	18.18%	12.73			16	1.85%	1.30				
CE V	70.00	0.0											16	1.85%	1.10				
CE IV	59.39	54.0	3.00%	1.78															
CE III	49.22	0.0																	
CE II	35.20	0.0																	
CE I	28.54	0.0																	
LS IV	50.74	12.0	0.67%	0.34									8	15.09%	7.66				
LS II	39.69	53.0	2.95%	1.17									45	84.91%	33.70				
GSP III	56.51	0.0																	
EC II	33.65	0.0																	
ET V	59.47	52.0	2.89%	1.72	16	12.50%	7.43	4	18.18%	10.81			32	3.70%	2.20				
ET IV	40.11	16.0	0.89%	0.36	16	12.50%	5.01												
ET III	32.01	1,128.0	62.70%	20.07	80	62.50%	20.00	8	36.36%	11.64			800	92.59%	29.64				
ET II	29.31	0.0																	
ET I	22.44	450.0	25.01%	5.61				2	9.09%	2.28									
AD I	25.07	10.0	0.56%	0.14	8	6.25%	1.57												
		0.0																	
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		0.0																	
<b>TOTALS</b>		1799.0	100%	\$32.12	128.0	100.00%	\$38.06	22.0	100%	\$48.26	53.0	100%	\$41.36	864.0	100%	\$34.23	450.0	100%	\$22.44

### AVERAGE HOURLY PROJECT RATES

**FIRM** Gewalt Hamilton Associates, Inc.  
**PT-BIT-EM#** 1  
**PRIME/SUPPLEMENT** 0

**DATE** 11/05/20  
**SHEET** 2 **OF** 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Progress meetings			Traffic Control Insp (Nights)			Punch Lists			Record Drawings			Project Closure					
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg			
CE VI	70.00																		
CE V	70.00																		
CE IV	59.39	30	50.00%	29.69															
CE III	49.22																		
CE II	35.20																		
CE I	28.54																		
LS IV	50.74																		
LS II	39.69																		
GISP III	56.51																		
EC II	33.65																		
ET V	59.47																		
ET IV	40.11																		
ET III	32.01	30	50.00%	16.00	24	100.00%	32.01	20	100.00%	32.01	16	57.14%	18.29	150	100.00%	32.01			
ET II	29.31																		
ET I	22.44																		
AD I	25.07																		
<b>TOTALS</b>		60.0	100%	\$45.70	24.0	100%	\$32.01	20.0	100%	\$32.01	28.0	100%	\$36.88	150.0	100%	\$32.01	0.0	0%	\$0.00

	Principal	CE VI	CE V	CE IV	CE III	CE II	CE I	LS IV	LS II	GISP II	EC II	ET V	ET IV	ET III	ET II	ET I	AD I	Total Hours	
																			N/A
<b>I. Phase III Construction Engineering</b>																			
Preconstruction Coordination		4		4								16	16	80				8	128
Preconstruction Meeting		4		4				8	45			4		8				2	22
Layout Verification																			53
Construction Observation (RE) June-Sept 2021		16		16								32		800			450		864
Construction Observation (Inspector 1)														30					450
Progress Meetings				30										24					60
Traffic Control Inspection (Nights)														20					24
Punch List & Final Inspections								4	8					16					28
Record Drawings														150					150
Project Closure		24		54				12	53			52	16	1128		450		10	1799
<b>I. Category Subtotal</b>																			
	0	24	0	54	0	0	0	12	53	0	0	52	16	1128	0	450		10	1799
<b>II. Category</b>																			
Total Labor	0	24	0	54	0	0	0	12	53	0	0	52	16	1128	0	450		10	1799

**Preconstruction:** 4 weeks 20 hrs/week 80 hours  
**RE Construction:** 16 weeks 50 hrs/week 800 hours  
**RE Construction:** 0 weeks 35 hrs/week 0 hours  
**PM Construction:** 16 weeks 2 hrs/week 32 hours  
**PM Construction:** 0 weeks 1 hrs/week 16 hours  
**Inspector Construction:** 10 weeks 45 hrs/week 450 hours  
**Layout Verification:** 15 weeks 75% hrs/week 45 hours  
**Progress Meetings:** 15 weeks 2 hrs/week 30 hours  
**Traffic Control Inspections (Nights):** 3 months 2 each/mo. 4 hrs/each 24 hours  
**Punch List:** 2 weeks 10 hrs/week 20 hours  
**Closeout:** 15 weeks 10 hrs/week 150 hours





## PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME  
 PRIME/SUPPLEMENT  
 Prepared By

Gewalt Hamilton Associates

DATE 01/07/20  
 PTB-ITEM# 3

CONTRACT TERM 12 MONTHS  
 START DATE 6/15/2020  
 RAISE DATE 5/15/2021

OVERHEAD RATE 160.00%  
 COMPLEXITY FACTOR 0  
 % OF RAISE 3%

END DATE 6/14/2021

### ESCALATION PER YEAR

Year	First date	Last date	Months % of Contract
0	6/15/2020	5/15/2021	11 91.67%
1	5/16/2021	6/15/2021	1 8.58%

The total escalation = 0.25%

## PAYROLL RATES

FIRM NAME Gewalt Hamilton Associ DATE 01/07/20  
 PRIME/SUPPLEMENT 0  
 PTB-ITEM # 3

ESCALATION FACTOR **0.25%**

*Note: Rates should be capped on the AVG 1 tab as necessary*

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$75.08	\$75.27
CE VI	\$72.30	\$72.48
CE V	\$67.65	\$67.82
CE IV	\$57.13	\$57.27
CE III	\$44.13	\$44.24
CE II	\$32.67	\$32.75
CE I	\$27.41	\$27.48
Land Surveyor IV	\$48.13	\$48.25
Land Surveyor II	\$36.81	\$36.90
GISP II	\$55.00	\$55.14
Environmental Consult II	\$31.40	\$31.48
ET V	\$58.98	\$59.13
ETIV	\$39.50	\$39.60
ET III	\$30.50	\$30.58
ET II	\$26.95	\$27.02
ET I	\$19.52	\$19.57
Admin I	\$23.30	\$23.36



## AVERAGE HOURLY PROJECT RATES

FIRM Gewalt Hamilton Associates  
 PTB-ITEM# 3  
 PRIME/SUPPLEMENT 0

DATE 01/07/20  
 SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Preconstruction Coordination			Preconstruction Meeting			Layout Verification			Const Obs June-Sept 2020			Const Obs		
		Hours	% Part	Wgtd Avg	Hours	% Part	Wgtd Avg	Hours	% Part	Wgtd Avg	Hours	% Part	Wgtd Avg	Hours	% Part	Wgtd Avg	Hours	% Part	Wgtd Avg
Principal	75.27	0.0			4	3.23%	2.34	4	22.22%	16.11									
CE VI	72.48	24.0	1.53%	1.11											16	2.01%	1.46		
CE V	67.82	0.0																	
CE IV	57.27	0.0																	
CE III	44.24	0.0																	
CE II	32.75	0.0																	
CE I	27.48	0.0																	
Land Surveyor IV	48.25	12.0	0.76%	0.37															
Land Surveyor II	36.90	53.0	3.37%	1.24											45	84.91%	31.33		
GISP II	55.14	0.0																	
Environmental Consult II	31.48	0.0																	
ET V	59.13	80.0	5.09%	3.01	16	12.90%	7.63	4	22.22%	13.14					30	3.77%	2.23		
ET IV	39.60	16.0	1.02%	0.40	16	12.90%	5.11												
ET III	30.58	1,058.0	67.26%	20.57	80	64.52%	19.73	8	44.44%	13.59					750	94.22%	28.81		
ET II	27.02	0.0																	
ET I	19.57	320.0	20.34%	3.98															
Admin I	23.36	10.0	0.64%	0.15	8	6.45%	1.51	2	11.11%	2.60									
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		1573.0	100%	\$30.82	124.0	100.00%	\$36.31	18.0	100%	\$45.43	53.0	100%	\$38.61	796.0	100%	\$32.49	0.0	0%	\$0.00

### AVERAGE HOURLY PROJECT RATES

**FIRM** Gewalt Hamilton Associates  
**PTB-ITEM#** 3  
**PRIME/SUPPLEMENT** 0

**DATE** 01/07/20  
**SHEET** 2 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Const Obs (Inspector)			Progress Meetings			Traffic Control Insp (Nights)			Punch Lists			Record Drawings			Project Closure		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Principal	75.27																		
CE VI	72.48																		
CE V	67.82																		
CE IV	57.27																		
CE III	44.24																		
CE II	32.75																		
CE I	27.48																		
Land Surveyor IV	48.25																		
Land Surveyor II	36.90																		
GISP II	55.14																		
Environmental Consult II	31.48																		
ET V	59.13				30	100.00%	59.13												
ETIV	39.60																		
ET III	30.58																		
ET II	27.02																		
ET I	19.57	320	100.00%	19.57															
Admin I	23.36																		
<b>TOTALS</b>		320.0	100%	\$19.57	30.0	100%	\$59.13	24.0	100%	\$30.58	20.0	100%	\$30.58	28.0	100%	\$34.91	160.0	100%	\$30.58

	Principal	CE VI	CE V	CE IV	CE III	CE II	CE I	LS IV	LS II	GISP II	EC II	ET V	ET IV	ET III	ET II	ET I	AD I	Total Hours
<b>I. Phase III Construction Engineering</b>																		
Preconstruction Coordination		4										16	16	80			8	124
Preconstruction Meeting		4										4		8			2	18
Layout Verification								8	45									53
Construction Observation (RE) July-Sept 2020		16										30		750				796
Construction Observation (RE)																320		0
Construction Observation (Inspector 1)																		320
Progress Meetings												30						30
Traffic Control Inspection (Nights)														24				24
Punch List & Final Inspections								4	8					20				20
Record Drawings														16				28
Project Closure														160				160
I. Category Subtotal	0	24	0	0	0	0	0	12	53	0	0	80	16	1058	0	320	10	1573
<b>II. Category</b>																		
Total Labor	0	24	0	0	0	0	0	12	53	0	0	80	16	1058	0	320	10	1573





**PAYROLL ESCALATION TABLE  
FIXED RAISES**

FIRM NAME  
PRIME/SUPPLEMENT  
Prepared By

Gewalt Hamilton Associates

DATE 12/02/19  
PTB-ITEM# 3

CONTRACT TERM 12 MONTHS  
START DATE 6/15/2020  
RAISE DATE 5/15/2021  
END DATE 6/14/2021

OVERHEAD RATE 160.00%  
COMPLEXITY FACTOR 0  
% OF RAISE 3%

**ESCALATION PER YEAR**

<u>year</u>	<u>First date</u>	<u>Last date</u>	<u>Months</u>	<u>% of Contract</u>
0	6/15/2020	5/15/2021	11	91.67%
1	5/16/2021	6/15/2021	1	8.58%

---

The total escalation = 0.25%

## PAYROLL RATES

FIRM NAME Gewalt Hamilton Associ DATE 12/02/19  
 PRIME/SUPPLEMENT 0  
 PTB-ITEM # 3

ESCALATION FACTOR 0.25%

*Note: Rates should be capped on the AVG 1 tab as necessary*

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$75.08	\$75.27
CE VI	\$72.30	\$72.48
CE V	\$67.65	\$67.82
CE IV	\$57.13	\$57.27
CE III	\$44.13	\$44.24
CE II	\$32.67	\$32.75
CE I	\$27.41	\$27.48
Land Surveyor IV	\$48.13	\$48.25
Land Surveyor II	\$36.81	\$36.90
GISP II	\$55.00	\$55.14
Environmental Consult II	\$31.40	\$31.48
ET V	\$58.98	\$59.13
ETIV	\$39.50	\$39.60
ET III	\$30.50	\$30.58
ET II	\$26.95	\$27.02
ET I	\$19.52	\$19.57
Admin I	\$23.30	\$23.36



**AVERAGE HOURLY PROJECT RATES**

**FIRM** Gewalt Hamilton Associates  
**PTB-ITEM#** 3  
**PRIME/SUPPLEMENT** 0

**DATE** 12/02/19

**SHEET** 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Preconstruction Coordina			Preconstruction Meeting			Layout Verification			Const Obs June-Sept 2020			Const Obs		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	75.27	0.0																	
CE VI	72.48	24.0	1.70%	1.23	4	3.23%	2.34	4	22.22%	16.11				16	2.01%	1.48			
CE V	67.82	0.0																	
CE IV	57.27	0.0																	
CE III	44.24	0.0																	
CE II	32.75	0.0																	
CE I	27.48	0.0																	
Land Surveyor IV	48.25	12.0	0.85%	0.41							8	15.06%	7.28						
Land Surveyor II	36.90	53.0	3.75%	1.36							45	84.91%	31.33						
GISP II	55.14	0.0																	
Environmental Consult II	31.48	0.0																	
ET V	59.13	80.0	5.86%	3.35	16	12.90%	7.63	4	22.22%	13.14				30	3.77%	2.23			
ETIV	39.60	16.0	1.13%	0.45	16	12.90%	5.11												
ET III	30.58	1,058.0	74.88%	22.89	80	64.52%	19.73	8	44.44%	13.59				750	94.22%	28.81			
ET II	27.02	0.0																	
ET I	19.57	160.0	11.32%	2.22															
Admin I	23.36	10.0	0.71%	0.17	8	6.45%	1.51	2	11.11%	2.80									
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		1413.0	100%	\$32.10	124.0	100.00%	\$36.31	18.0	100%	\$45.43	53.0	100%	\$38.61	786.0	100%	\$32.49	0.0	0%	\$0.00

Bureau of Design and Environment  
Prepared By: Consultant

AVERAGE HOURLY PROJECT RATES

FIRM Gewalt Hamilton Associates  
PTB-ITEM# 3  
PRIME/SUPPLEMENT 0

DATE 12/02/19  
SHEET 2 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Const Obs (Inspector)			Progress Meetings			Traffic Control Insp (Nights)			Punch Lists			Record Drawings			Project Closure		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	75.27																		
CE VI	72.48																		
CE V	67.82																		
CE IV	57.27																		
CE III	44.24																		
CE II	32.75																		
CE I	27.48																		
Land Surveyor IV	48.25													4	14.29%	6.89			
Land Surveyor II	36.90													8	28.57%	10.54			
GISP II	55.14																		
Environmental Consult II	31.48																		
ET V	59.13				30	100.00%	59.13												
ETIV	39.80																		
ET III	30.58							24	100.00%	30.58	20	100.00%	30.58	16	57.14%	17.47	160	100.00%	30.58
ET II	27.02																		
ET I	19.57	160	100.00%	19.57															
Admin I	23.36																		
TOTALS		160.0	100%	\$19.57	30.0	100%	\$59.13	24.0	100%	\$30.58	20.0	100%	\$30.58	28.0	100%	\$34.91	160.0	100%	\$30.58

	Principal	CE VI	CE V	CE IV	CE III	CE II	CE I	LS IV	LS II	GISP II	EC II	ET V	ET IV	ET III	ET II	ET I	AD I	Total Hours
<b>I. Phase III Construction Engineering</b>																		
Preconstruction Coordination		4										16	16	80			8	124
Preconstruction Meeting		4										4		8			2	18
Layout Verification								8	45									53
Construction Observation (RE) July-Sept 2020		16										30		750				796
Construction Observation (RE)																		0
Construction Observation (Inspector I)																160		160
Progress Meetings												30						30
Traffic Control Inspection (Nights)														24				24
Punch List & Final Inspections														20				20
Record Drawings								4	8					16				28
Project Closure														160				160
I. Category Subtotal	0	24	0	0	0	0	0	12	53	0	0	80	16	1058	0	160	10	1413
<b>II. Category</b>																		
Total Labor	0	24	0	0	0	0	0	12	53	0	0	80	16	1058	0	160	10	1413



**PAYROLL ESCALATION TABLE  
FIXED RAISES**

FIRM NAME  
PRIME/SUPPLEMENT  
Prepared By

Gewalt Hamilton Associates

DATE 12/02/19  
PTB-ITEM# 3

CONTRACT TERM 12 MONTHS  
START DATE 6/15/2020  
RAISE DATE 5/15/2021  
END DATE 6/14/2021

OVERHEAD RATE 160.00%  
COMPLEXITY FACTOR 0  
% OF RAISE 3%

**ESCALATION PER YEAR**

year	First date	Last date	Months	% of Contract
0	6/15/2020	5/15/2021	11	91.67%
1	5/16/2021	6/15/2021	1	8.58%

---

The total escalation = 0.25%



## PAYROLL RATES

FIRM NAME Gewalt Hamilton Associ DATE 12/02/19  
 PRIME/SUPPLEMENT 0  
 PTB-ITEM # 3

ESCALATION FACTOR 0.25%

*Note: Rates should be capped on the AVG 1 tab as necessary*

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$75.08	\$75.27
CE VI	\$72.30	\$72.48
CE V	\$67.65	\$67.82
CE IV	\$57.13	\$57.27
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CE II	\$32.67	\$32.75
CE I	\$27.41	\$27.48
Land Surveyor IV	\$48.13	\$48.25
Land Surveyor II	\$36.81	\$36.90
GISP II	\$55.00	\$55.14
Environmental Consult II	\$31.40	\$31.48
ET V	\$58.98	\$59.13
ETIV	\$39.50	\$39.60
ET III	\$30.50	\$30.58
ET II	\$26.95	\$27.02
ET I	\$19.52	\$19.57
Admin I	\$23.30	\$23.36

### COST PLUS FIXED FEE COST ESTIMATE OF CONSULTANT SERVICES

Bureau of Design and Environment  
Prepared By: Consultant  
DATE 12/02/19

FIRM	<u>Gewalt Hamilton Associates</u>	OVERHEAD RATE	<u>160.00%</u>
PTB-ITEM #	<u>3</u>	COMPLEXITY FACTOR	<u>0</u>
PRIME/SUPPLEMENT	<u>0</u>		

DBE DROP BOX	ITEM	MANHOURS (A)	PAYROLL (B)	OVERHEAD & FRINGE BENF (C)	DIRECT COSTS (D)	FIXED FEE (E)	SERVICES BY OTHERS (G)	DBE TOTAL (H)	TOTAL (B-G)	% OF GRAND TOTAL
	Preconstruction Coordinat	124	4,503	7,204		1,666		-	13,373	9.17%
	Preconstruction Meeting	18	818	1,308		303		-	2,429	1.67%
	Layout Verification	53	2,047	3,275		757		-	6,079	4.17%
	Const Obs June-Sept 2020	796	25,866	41,385	5,075	9,570	6,000	-	87,896	60.30%
	Const Obs	-	-	-		-		-	-	0.00%
	Const Obs (Inspector)	160	3,131	5,010		1,158		-	9,299	6.38%
	Progress Meetings	30	1,774	2,838		656		-	5,268	3.61%
	Traffic Control Insp (Nights)	24	734	1,174		272		-	2,180	1.50%
	Punch Lists	20	612	978		226		-	1,816	1.25%
	Record Drawings	28	977	1,564		362		-	2,903	1.99%
	Project Closure	160	4,892	7,828		1,810		-	14,530	9.97%
	Subconsultant DL					0				
	<b>TOTALS</b>	<b>1413</b>	<b>45,354</b>	<b>72,564</b>	<b>5,075</b>	<b>16,780</b>	<b>6,000</b>	<b>-</b>	<b>145,773</b>	<b>100.00%</b>

117,918 DBE 0.00%

AVERAGE HOURLY PROJECT RATES

FIRM Gewalt Hamilton Associates  
PTB-ITEM# 3  
PRIME/SUPPLEMENT 0

DATE 12/02/19

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Preconstruction Coordina			Preconstruction Meeting			Layout Verification			Const Obs June-Sept 2020			Const Obs		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	75.27	0.0																	
CE VI	72.48	24.0	1.70%	1.23	4	3.23%	2.34	4	22.22%	16.11				16	2.01%	1.46			
CE V	67.82	0.0																	
CE IV	57.27	0.0																	
CE III	44.24	0.0																	
CE II	32.75	0.0																	
CE I	27.48	0.0																	
Land Surveyor IV	48.25	12.0	0.85%	0.41							8	15.09%	7.26						
Land Surveyor II	36.90	53.0	3.75%	1.36							45	84.91%	31.33						
GISP II	55.14	0.0																	
Environmental Consult II	31.48	0.0																	
ET V	59.13	80.0	5.86%	3.35	16	12.90%	7.63	4	22.22%	13.14				30	3.77%	2.23			
ETIV	39.60	16.0	1.13%	0.45	16	12.90%	5.11												
ET III	30.58	1,058.0	74.88%	22.89	80	64.52%	19.73	8	44.44%	13.59				750	94.22%	28.81			
ET II	27.02	0.0																	
ET I	19.57	160.0	11.32%	2.22															
Admin I	23.36	10.0	0.71%	0.17	8	6.45%	1.51	2	11.11%	2.60									
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		1413.0	100%	\$32.10	124.0	100.00%	\$36.31	18.0	100%	\$45.43	53.0	100%	\$38.61	796.0	100%	\$32.49	0.0	0%	\$0.00



	Principal	CE VI	CE V	CE IV	CE III	CE II	CE I	LS IV	LS II	GISP II	EC II	ET V	ET IV	ET III	ET II	ET I	AD I	Total Hours
<b>I. Phase III Construction Engineering</b>																		
Preconstruction Coordination		4										16	16	80			8	124
Preconstruction Meeting		4										4		8			2	18
Layout Verification								8	45									53
Construction Observation (RE) July-Sept 2020		16										30		750				796
Construction Observation (RE)																		0
Construction Observation (Inspector 1)																160		160
Progress Meetings												30						30
Traffic Control Inspection (Nights)														24				24
Punch List & Final Inspections														20				20
Record Drawings								4	8					16				28
Project Closure														160				160
<b>I. Category Subtotal</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>53</b>	<b>0</b>	<b>0</b>	<b>80</b>	<b>16</b>	<b>1056</b>	<b>0</b>	<b>160</b>	<b>10</b>	<b>1413</b>
<b>II. Category</b>																		
<b>Total Labor</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>53</b>	<b>0</b>	<b>0</b>	<b>80</b>	<b>16</b>	<b>1056</b>	<b>0</b>	<b>160</b>	<b>10</b>	<b>1413</b>