

VILLAGE OF LONG GROVE - WATERMAIN EXTENSION SCENARIO  
 ENGINEER'S OPINION OF PROBABLE COST SUMMARY  
 DATE PREPARED: January 26, 2012

OPINION OF PROBABLE COST IF EACH PROJECT IS DONE INDIVIDUALLY

OPTIONAL A2/A3							
Water Main Extension	Trunk Main	Internal Private Cost With Fire Protection	Total Cost With Fire Protection	Residences Served	Cost / Residence	Annual Loan Payment/Residence @ 1.25% Over 20 Year Loan	
OPTION A1	\$282,419.88	\$270,340.16	\$552,760.04	12	\$46,063.34	\$2,617.34	
Note: Internal costs includes only Fairview Village Subdivision							
OPTION A2	\$665,638.06	\$710,517.09	\$1,376,155.15	37	\$37,193.38	\$2,113.34	
Note: Internal costs includes only The Lakes of Long Grove Subdivision							
OPTION A3	\$1,113,105.93	\$980,857.25	\$2,093,963.18	49	\$42,733.94	\$2,428.16	
Note: Internal costs includes The Lakes of Long Grove Subdivision and Fairview Village Subdivision							

OPTION B1/B2							
Water Main Extension	Trunk Main	Internal Private Cost With Fire Protection	Total Cost With Fire Protection	Residences Served	Cost / Residence	Annual Loan Payment/Residence @ 1.25% Over 20 Year Loan	
OPTION B1	\$703,177.22		\$703,177.22	47	\$14,961.22	\$850.10	
OPTION B2	\$573,316.00		\$573,316.00	10	\$57,331.60	\$3,257.60	
Option B1 + Option B2	\$1,276,493.22		\$1,276,493.22	57	\$22,394.62	\$1,272.47	

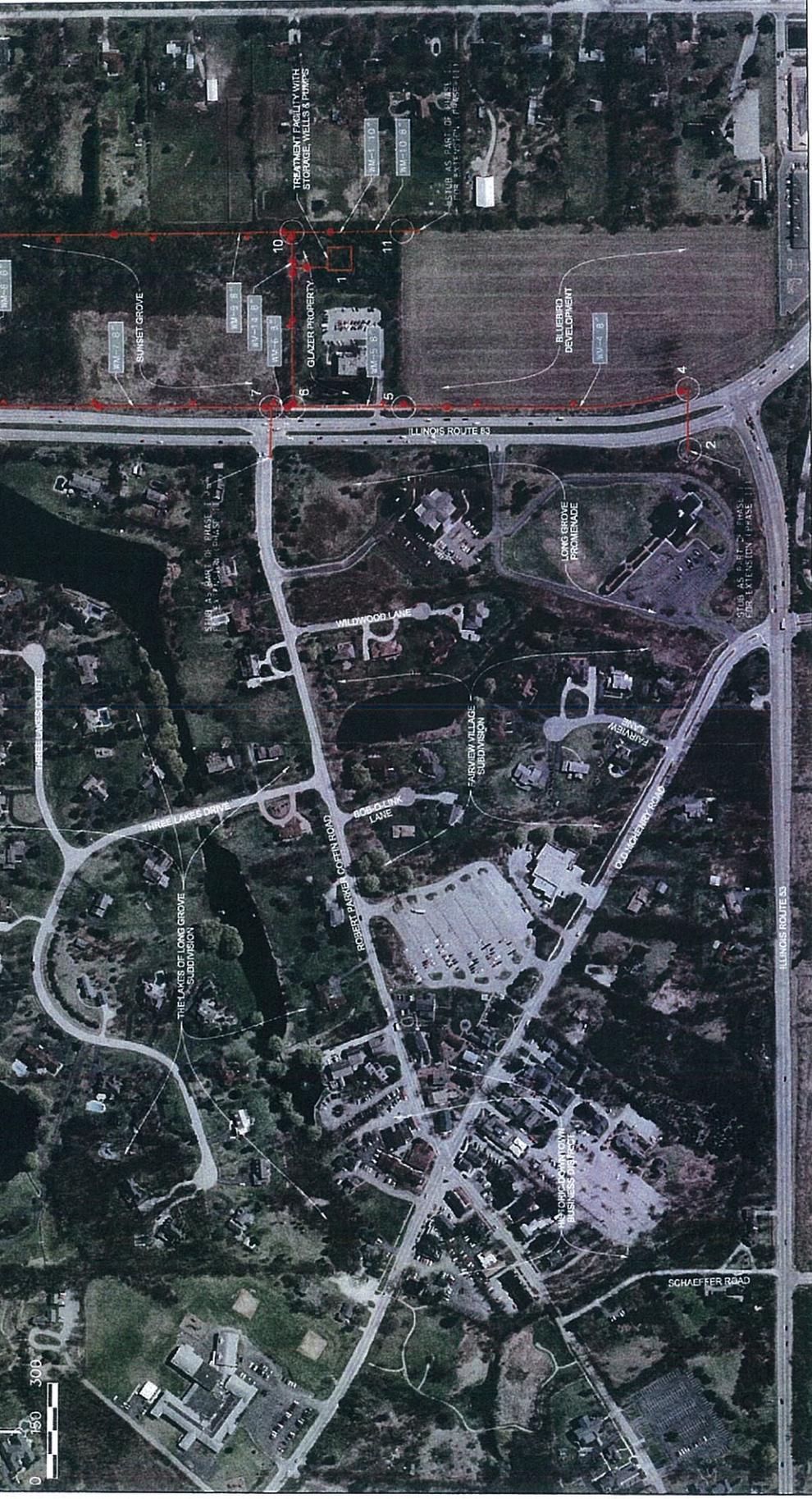
BRIARCREST SUBDIVISION							
Water Main Extension	Trunk Main	Internal Private Cost With Fire Protection	Total Cost With Fire Protection	Residences Served	Cost / Residence	Annual Loan Payment/Residence @ 1.25% Over 20 Year Loan	
Briarcrest Subdivision (Only)	\$758,210.41	\$388,112.75	\$1,146,323.16	72	\$15,921.16	\$904.65	
Water Main Extension	Trunk Main	Internal Private Cost Without Fire Protection	Total Cost Without Fire Protection	Residences Served	Cost / Residence	Annual Loan Payment/Residence @ 1.25% Over 20 Year Loan	
Briarcrest Subdivision (Only)	\$758,210.41	\$63,116.31	\$821,326.72	72	\$11,407.32	\$648.17	

- Notes:
1. O&M not included.
  2. The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
  3. Cost are based on an equal cost per lot for each lot within the village, as all lots will connect to trunk system.
  4. Permanent Utility Easements will be required on Private Roads. These costs are not included.
  5. Costs for project done individually include constructing watermain, in its entirety, from Sunset Groves to Briarcrest Subdivision.

# EXISTING WATERMAIN

**VILLAGE OF LONG GROVE**  
 Long Grove, Illinois 60077-8633

**ESI CONSULTANTS, LTD.**  
 1000 W. WISCONSIN AVENUE, SUITE 200  
 WILSON, ILLINOIS 60181



# EXISTING CONDITIONS

1/24/2012 1:10:08 PM Long Grove 222 W 119th Main Water System January 2012 1000 W Wisconsin Avenue, Suite 200, Wilson, Illinois 60181

**VILLAGE OF LONG GROVE - OPTION A1 (INCLUDING FIRE PROTECTION)**  
**ENGINEER'S OPINION OF PROBABLE COST FOR WATERMAIN TRUNK LINE SERVING**  
**FAIRVIEW VILLAGE**  
**DATE PREPARED: January 16, 2012**

ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$27,855.00	\$ 27,855.00
2	Watermain, 8" DIP	1,120	LF	\$55.00	\$ 61,600.00
3	Valves and Vaults, 8"	5	EA	\$5,000.00	\$ 25,000.00
4	Trench Backfill	937	CY	\$30.00	\$ 28,110.00
5	Hydrants	4	EA	\$5,000.00	\$ 20,000.00
6	Horizontal Directional Drills	0	LF	\$250.00	\$ -
7	Water Meters (Residential)	0	EA	\$500.00	\$ -
8	Class D Patch (Asphalt)	623	SY	\$55.00	\$ 34,265.00
9	Restoration	1	Acre	\$4,500.00	\$ 4,500.00
10	Erosion Control Barrier	2,240	LF	\$3.00	\$ 6,720.00
11	Watermain Adjustments	1	EA	\$4,500.00	\$ 4,500.00
12	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal \$ 213,550.00  
Contingency (15%) \$ 32,032.50  
**Total \$ 245,582.50**

Design Engineering (7.5%) \$ 18,418.69  
Construction Engineering (7.5%) \$ 18,418.69

**GRAND TOTAL \$ 282,419.88**

**Notes:**

1. O&M not included.
2. The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
3. Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
4. Permanent Utility Easements will be required on Private Roads. These costs are not included.
5. At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM .



**VILLAGE OF LONG GROVE - FAIRVIEW VILLAGE - INTERNAL SUBDIVISION COSTS (INCLUDING FIRE PROTECTION)**

**ENGINEER'S OPINION OF PROBABLE COST FOR WATERMAIN SERVING FAIRVIEW VILLAGE ON WILDWOOD LANE**

**DATE PREPARED: January 16, 2012**

ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$10,321.00	\$ 10,321.00
2	Watermain, 8" DIP	401	LF	\$55.00	\$ 22,055.00
3	Valves and Vaults, 8"	1	EA	\$5,000.00	\$ 5,000.00
4	Trench Backfill	336	CY	\$30.00	\$ 10,080.00
5	Hydrants	1	EA	\$5,000.00	\$ 5,000.00
6	Horizontal Directional Drills	0	LF	\$250.00	\$ -
7	Water Meters (Residential)	4	EA	\$500.00	\$ 2,000.00
8	Class D Patch (Asphalt)	223	SY	\$55.00	\$ 12,265.00
9	Restoration	1	Acre	\$4,500.00	\$ 4,500.00
10	Erosion Control Barrier	802	LF	\$3.00	\$ 2,406.00
11	Watermain Adjustments	1	EA	\$4,500.00	\$ 4,500.00
12	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal	\$ 79,127.00
Contingency (15%)	\$ 11,869.05
<b>Total</b>	<b>\$ 90,996.05</b>

Design Engineering (7.5%)	\$ 6,824.70
Construction Engineering (7.5%)	\$ 6,824.70

<b>GRAND TOTAL</b>	<b>\$ 104,645.46</b>
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- Notes:**
- O&M not included.
  - The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
  - Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
  - Permanent Utility Easements will be required on Private Roads. These costs are not included.
  - At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM .

**VILLAGE OF LONG GROVE - FAIRVIEW VILLAGE - INTERNAL SUBDIVISION COSTS (INCLUDING FIRE PROTECTION)**  
**ENGINEER'S OPINION OF PROBABLE COST FOR WATERMAIN SERVING FAIRVIEW VILLAGE ON BOB-O-LINK LANE**

DATE PREPARED: January 16, 2012

ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$6,372.00	\$ 6,372.00
2	Watermain, 8" DIP	175	LF	\$55.00	\$ 9,625.00
3	Valves and Vaults, 8"	1	EA	\$5,000.00	\$ 5,000.00
4	Trench Backfill	147	CY	\$30.00	\$ 4,410.00
5	Hydrants	1	EA	\$5,000.00	\$ 5,000.00
6	Horizontal Directional Drills	0	LF	\$250.00	\$ -
7	Water Meters (Residential)	4	EA	\$500.00	\$ 2,000.00
8	Class D Patch (Asphalt)	98	SY	\$55.00	\$ 5,390.00
9	Restoration	1	Acre	\$4,500.00	\$ 4,500.00
10	Erosion Control Barrier	350	LF	\$3.00	\$ 1,050.00
11	Watermain Adjustments	1	EA	\$4,500.00	\$ 4,500.00
12	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal	\$ 48,847.00
Contingency (15%)	\$ 7,327.05
<b>Total</b>	<b>\$ 56,174.05</b>
Design Engineering (7.5%)	\$ 4,213.05
Construction Engineering (7.5%)	\$ 4,213.05

<b>GRAND TOTAL</b>	<b>\$ 64,600.16</b>
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**Notes:**

1. O&M not included.
2. The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
3. Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
4. Permanent Utility Easements will be required on Private Roads. These costs are not included.
5. At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM .

**VILLAGE OF LONG GROVE - FAIRVIEW VILLAGE - INTERNAL SUBDIVISION COSTS (INCLUDING FIRE PROTECTION)**

**ENGINEER'S OPINION OF PROBABLE COST FOR WATERMAIN SERVING FAIRVIEW VILLAGE ON FAIRVIEW LANE**

**DATE PREPARED: January 16, 2012**

ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$9,971.00	\$ 9,971.00
2	Watermain, 8" DIP	381	LF	\$55.00	\$ 20,955.00
3	Valves and Vaults, 8"	1	EA	\$5,000.00	\$ 5,000.00
4	Trench Backfill	319	CY	\$30.00	\$ 9,570.00
5	Hydrants	1	EA	\$5,000.00	\$ 5,000.00
6	Horizontal Directional Drills	0	LF	\$250.00	\$ -
7	Water Meters (Residential)	4	EA	\$500.00	\$ 2,000.00
8	Class D Patch (Asphalt)	212	SY	\$55.00	\$ 11,660.00
9	Restoration	1	Acre	\$4,500.00	\$ 4,500.00
10	Erosion Control Barrier	762	LF	\$3.00	\$ 2,286.00
11	Watermain Adjustments	1	EA	\$4,500.00	\$ 4,500.00
12	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal	\$ 76,442.00
Contingency (15%)	\$ 11,466.30
<b>Total</b>	<b>\$ 87,908.30</b>
Design Engineering (7.5%)	\$ 6,593.12
Construction Engineering (7.5%)	\$ 6,593.12

<b>GRAND TOTAL</b>	<b>\$ 101,094.55</b>
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- Notes:**
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  - Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
  - Permanent Utility Easements will be required on Private Roads. These costs are not included.
  - At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM.

**VILLAGE OF LONG GROVE - OPTION A2 (INCLUDING FIRE PROTECTION)**  
**ENGINEER'S OPINION OF PROBABLE COST FOR WATERMAIN TRUNK LINE SERVING THE LAKES OF LONG GROVE**

DATE PREPARED: January 16, 2012

ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/insurance /Overhead/Profit (15%)	1	LS	\$65,651.00	\$ 65,651.00
2	Watermain, 8" DIP	1,302	LF	\$55.00	\$ 71,610.00
3	Valves and Vaults, 8"	6	EA	\$5,000.00	\$ 30,000.00
4	Watermain, 10" DIP	1,235	LF	\$75.00	\$ 92,625.00
5	Valve and Vaults, 10" DIP	5	EA	\$6,500.00	\$ 32,500.00
6	Trench Backfill	2,122	CY	\$30.00	\$ 63,660.00
7	Hydrants	8	EA	\$5,000.00	\$ 40,000.00
8	Horizontal Directional Drills	0	LF	\$250.00	\$ -
9	Water Meters (Residential)	0	EA	\$500.00	\$ -
10	Class D Patch (Asphalt)	1,410	SY	\$55.00	\$ 77,550.00
11	Restoration	1	Acre	\$4,500.00	\$ 4,500.00
12	Erosion Control Barrier	5,074	LF	\$3.00	\$ 15,222.00
13	Watermain Adjustments	2	EA	\$4,500.00	\$ 9,000.00
14	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal	\$ 503,318.00
Contingency (15%)	\$ 75,497.70
<b>Total</b>	<b>\$ 578,815.70</b>

Design Engineering (7.5%)	\$ 43,411.18
Construction Engineering (7.5%)	\$ 43,411.18

<b>GRAND TOTAL</b>	<b>\$ 665,638.06</b>
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**Notes:**

1. O&M not included.
2. The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
3. Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
4. Permanent Utility Easements will be required on Private Roads. These costs are not included.
5. At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM.

**VILLAGE OF LONG GROVE - LAKES OF LONG GROVE - INTERNAL SUBDIVISION COSTS (INCLUDING FIRE PROTECTION)**  
**ENGINEER'S OPINION OF PROBABLE COST FOR WATERMAIN SERVING THREE LAKES DRIVE AND THREE LAKES COURT IN THE LAKES OF LONG GROVE**  
**DATE PREPARED: January 16, 2012**

ITEM NO.	PAY-ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$70,077.00	\$ 70,077.00
2	Watermain, 8" DIP	2,646	LF	\$55.00	\$ 145,530.00
3	Valves and Vaults, 8"	6	EA	\$5,000.00	\$ 30,000.00
4	Trench Backfill	2,214	CY	\$30.00	\$ 66,420.00
5	Hydrants	10	EA	\$5,000.00	\$ 50,000.00
6	Horizontal Directional Drills	200	LF	\$250.00	\$ 50,000.00
7	Water Meters (Residential)	37	EA	\$500.00	\$ 18,500.00
8	Class D Patch (Asphalt)	1,470	SY	\$55.00	\$ 80,850.00
9	Restoration	1	Acre	\$4,500.00	\$ 4,500.00
10	Erosion Control Barrier	5,292	LF	\$3.00	\$ 15,876.00
11	Watermain Adjustments	1	EA	\$4,500.00	\$ 4,500.00
12	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal	\$ 537,253.00
Contingency (15%)	\$ 80,587.95
<b>Total</b>	<b>\$ 617,840.95</b>
Design Engineering (7.5%)	\$ 46,338.07
Construction Engineering (7.5%)	\$ 46,338.07

<b>GRAND TOTAL</b>	<b>\$ 710,517.09</b>
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**Notes:**

1. O&M not included.
2. The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
3. Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
4. Permanent Utility Easements will be required on Private Roads. These costs are not included.
5. At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM .



**VILLAGE OF LONG GROVE - OPTION A3 (INCLUDING FIRE PROTECTION)**  
**ENGINEER'S OPINION OF PROBABLE COST FOR WATERMAIN TRUNK LINE SERVING THE LAKES OF LONG GROVE AND FAIRVIEW VILLAGE**  
**DATE PREPARED: January 16, 2012**

ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$109,783.00	\$ 109,783.00
2	Watermain, 8" DIP	2,410	LF	\$55.00	\$ 132,550.00
3	Valves and Vaults, 8"	9	EA	\$5,000.00	\$ 45,000.00
4	Watermain, 10" DIP	1,985	LF	\$75.00	\$ 148,875.00
5	Valve and Vaults, 10" DIP	7	EA	\$6,500.00	\$ 45,500.00
6	Trench Backfill	3,676	CY	\$30.00	\$ 110,280.00
7	Hydrants	14	EA	\$5,000.00	\$ 70,000.00
8	Horizontal Directional Drills	0	LF	\$250.00	\$ -
9	Water Meters (Residential)	0	EA	\$500.00	\$ -
10	Class D Patch (Asphalt)	2,442	SY	\$55.00	\$ 134,310.00
11	Restoration	2	Acre	\$4,500.00	\$ 9,000.00
12	Erosion Control Barrier	8,790	LF	\$3.00	\$ 26,370.00
13	Watermain Adjustments	2	EA	\$4,500.00	\$ 9,000.00
14	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal \$ 841,668.00  
Contingency (15%) \$ 126,250.20  
Total \$ 967,918.20

Design Engineering (7.5%) \$ 72,593.87  
Construction Engineering (7.5%) \$ 72,593.87

**GRAND TOTAL \$ 1,113,105.93**

**Notes:**  
1. O&M not included.  
2. The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.  
3. Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.  
4. Permanent Utility Easements will be required on Private Roads. These costs are not included.  
5. At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM.

**EXISTING WATERMAIN**  
**OPTION A WATERMAIN**  
**INTERNAL WATERMAIN**

**VILLAGE OF LONG GROVE**  
 LONG GROVE, ILL. 60057-9825  
**ESI**  
**ESI CONSULTANTS, LTD.**  
 1000 WEST 10TH AVENUE, SUITE 100  
 DENVER, CO 80202  
 TEL: 303.733.8800 FAX: 303.733.8801  
 WWW.ESI-CONSULTANTS.COM



OPTION A3

**VILLAGE OF LONG GROVE - OPTION B1 (INCLUDING FIRE PROTECTION)**  
**ENGINEER'S OPINION OF PROBABLE COST FOR WATERMAIN TRUNK LINE SERVING HISTORICAL**  
**DOWNTOWN BUSINESS DISTRICT**  
**DATE PREPARED: January 16, 2012**

ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$69,353.00	\$ 69,353.00
2	Watermain, 8" DIP	1,965	LF	\$55.00	\$ 108,075.00
3	Valves and Vaults, 8"	7	EA	\$5,000.00	\$ 35,000.00
4	Watermain, 10" DIP	575	LF	\$75.00	\$ 43,125.00
5	Valve and Vaults, 10" DIP	1	EA	\$6,500.00	\$ 6,500.00
6	Trench Backfill	2,125	CY	\$30.00	\$ 63,750.00
7	Hydrants	10	EA	\$5,000.00	\$ 50,000.00
8	Horizontal Directional Drills	100	LF	\$250.00	\$ 25,000.00
9	Water Meters (Residential)	47	EA	\$500.00	\$ 23,500.00
10	Class D Patch (Asphalt)	1,412	SY	\$55.00	\$ 77,660.00
11	Restoration	1	Acre	\$4,500.00	\$ 4,500.00
12	Erosion Control Barrier	5,080	LF	\$3.00	\$ 15,240.00
13	Watermain Adjustments	2	EA	\$4,500.00	\$ 9,000.00
14	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal	\$ 531,703.00
Contingency (15%)	\$ 79,755.45
<b>Total</b>	<b>\$ 611,458.45</b>

Design Engineering (7.5%)	\$ 45,859.38
Construction Engineering (7.5%)	\$ 45,859.38

<b>GRAND TOTAL</b>	<b>\$ 703,177.22</b>
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**Notes:**

1. O&M not included.
2. The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
3. Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
4. Permanent Utility Easements will be required on Private Roads. These costs are not included.
5. At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM.



**VILLAGE OF LONG GROVE - OPTION B2 (INCLUDING FIRE PROTECTION)**  
**ENGINEER'S OPINION OF PROBABLE COST FOR WATERMAIN SERVING TRIANGLE PARCEL**  
**DATE PREPARED: January 16, 2012**

ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$66,225.00	\$ 66,225.00
2	Watermain, 8" DIP	2,760	LF	\$55.00	\$ 151,800.00
3	Valves and Vaults, 8"	5	EA	\$5,000.00	\$ 25,000.00
6	Trench Backfill	2,309	CY	\$30.00	\$ 69,270.00
7	Hydrants	10	EA	\$5,000.00	\$ 50,000.00
8	Horizontal Directional Drills	100	LF	\$250.00	\$ 25,000.00
9	Water Meters (Residential)	10	EA	\$500.00	\$ 5,000.00
11	Class D Patch (Asphalt)	1,534	SY	\$55.00	\$ 84,370.00
12	Restoration	1	Acre	\$4,500.00	\$ 4,500.00
13	Erosion Control Barrier	5,520	LF	\$3.00	\$ 16,560.00
14	Watermain Adjustments	2	EA	\$4,500.00	\$ 9,000.00
15	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal	\$ 507,725.00
Contingency (15%)	\$ 76,158.75
<b>Total</b>	<b>\$ 583,883.75</b>
Design Engineering (7.5%)	\$ 43,791.28
Construction Engineering (7.5%)	\$ 43,791.28

<b>GRAND TOTAL</b>	<b>\$ 671,466.31</b>
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**Notes:**

1. O&M not included.
2. The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
3. Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
4. Permanent Utility Easements will be required on Private Roads. These costs are not included.
5. At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM .

**EXISTING WATERMAIN**  
**OPTION A WATERMAIN**  
**INTERNAL WATERMAIN**  
**OPTION B WATERMAIN**

**ESI**  
 CONSULTANTS, LTD.  
 6007-8235  
 (811) 634-9440  
 10000 146th Street, Surrey, BC V4N 1C4



OPTION B2

2/2/2015  
 20150221 Long Grove 102 11108 From Water System/Number 20150221 CAD/CADD/INSTRUMENTATION B2 11-10014-00

**VILLAGE OF LONG GROVE - TRUNK WATERMAIN FROM SUNSET GROVES TO BRIARCREST**  
**ENGINEER'S OPINION OF PROBABLE COST**  
**DATE PREPARED: January 16, 2012**

ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$74,781.00	\$ 74,781.00
2	Watermain, 12" DIP	2,400	LF	\$95.00	\$ 228,000.00
3	Valves and Vaults, 12"	3	EA	\$8,000.00	\$ 24,000.00
4	Trench Backfill	2,408	CY	\$30.00	\$ 72,240.00
5	Hydrants	5	EA	\$5,000.00	\$ 25,000.00
6	Horizontal Directional Drills	100	LF	\$350.00	\$ 35,000.00
7	Class D Patch (Asphalt)	1,389	SY	\$55.00	\$ 76,395.00
8	Restoration	1	Acre	\$4,500.00	\$ 4,500.00
9	Erosion Control Barrier	4,800	LF	\$3.00	\$ 14,400.00
10	Watermain Adjustments	2	EA	\$4,500.00	\$ 9,000.00
11	Traffic Control and Protection	1	LS	\$10,000.00	\$ 10,000.00

Subtotal	\$ 573,316.00
Contingency (15%)	\$ 85,997.40
Total	\$ 659,313.40
Design Engineering (7.5%)	\$ 49,448.51
Construction Engineering (7.5%)	\$ 49,448.51

<b>GRAND TOTAL</b>	<b>\$ 758,210.41</b>
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- Notes:**
1. O&M not included.
  2. The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
  3. Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
  4. Permanent Utility Easements will be required on Private Roads. These costs are not included.
  5. At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 1,000' of WM.

**VILLAGE OF LONG GROVE - BRIARCREST - INTERNAL SUBDIVISION COSTS (INCLUDING FIRE PROTECTION)**  
**ENGINEER'S OPINION OF PROBABLE COST**  
**DATE PREPARED: January 16, 2012**

ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$38,279.00	\$ 38,279.00
2	Watermain, 8" DIP	1,000	LF	\$55.00	\$ 55,000.00
3	Valves and Vaults, 8"	3	EA	\$5,000.00	\$ 15,000.00
4	Trench Backfill	837	CY	\$30.00	\$ 25,110.00
5	Hydrants	3	EA	\$5,000.00	\$ 15,000.00
6	Horizontal Directional Drills	250	LF	\$250.00	\$ 62,500.00
7	Water Meters (Residential)	72	EA	\$500.00	\$ 36,000.00
8	Class D Patch (Asphalt)	556	SY	\$55.00	\$ 30,580.00
9	Restoration	1	Acre	\$4,500.00	\$ 4,500.00
10	Erosion Control Barrier	2,000	LF	\$3.00	\$ 6,000.00
11	Watermain Adjustments	1	EA	\$4,500.00	\$ 4,500.00
12	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal	\$ 293,469.00
Contingency (15%)	\$ 44,020.35
<b>Total</b>	<b>\$ 337,489.35</b>

Design Engineering (7.5%)	\$ 25,311.70
Construction Engineering (7.5%)	\$ 25,311.70

<b>GRAND TOTAL</b>	<b>\$ 388,112.75</b>
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**Notes:**

- O&M not included.
- The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
- Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
- Permanent Utility Easements will be required on Private Roads. These costs are not included.
- At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM.

**VILLAGE OF LONG GROVE - BRIARCREST - INTERNAL SUBDIVISION COSTS (NO FIRE PROTECTION)**  
**ENGINEER'S OPINION OF PROBABLE COST**  
**DATE PREPARED: January 16, 2012**

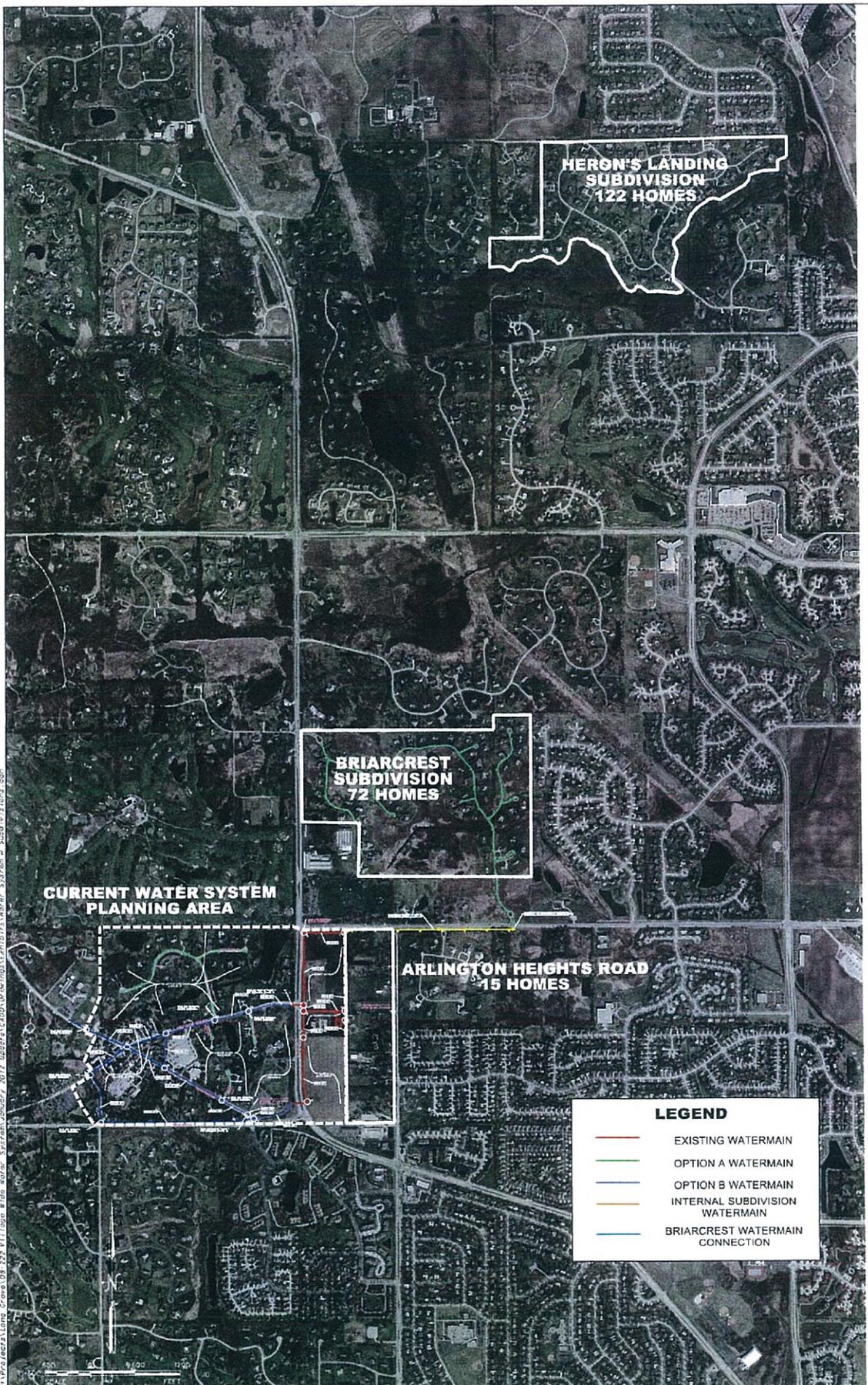
ITEM NO.	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contractor Bonds/Insurance /Overhead/Profit (15%)	1	LS	\$6,225.00	\$ 6,225.00
2	Watermain, 8" DIP		LF	\$55.00	\$ -
3	Valves and Vaults, 8"		EA	\$5,000.00	\$ -
4	Trench Backfill	0	CY	\$30.00	\$ -
5	Hydrants		EA	\$5,000.00	\$ -
6	Horizontal Directional Drills		LF	\$250.00	\$ -
7	Water Meters (Residential)	72	EA	\$500.00	\$ 36,000.00
8	Class D Patch (Asphalt)	0	SY	\$55.00	\$ -
9	Restoration	0	Acre	\$4,500.00	\$ -
10	Erosion Control Barrier	0	LF	\$3.00	\$ -
11	Watermain Adjustments	1	EA	\$4,500.00	\$ 4,500.00
12	Traffic Control and Protection	1	LS	\$1,000.00	\$ 1,000.00

Subtotal	\$ 47,725.00
Contingency (15%)	\$ 7,158.75
Total	\$ 54,883.75
Design Engineering (7.5%)	\$ 4,116.28
Construction Engineering (7.5%)	\$ 4,116.28

<b>GRAND TOTAL</b>	<b>\$ 63,116.31</b>
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**Notes:**

1. O&M not included.
2. The costs are based on 2012 construction dollars. Numbers should be recalculated prior to construction.
3. Cost are based on an equal cost per lot for each lot within the Village, as all lots will connect to trunk system.
4. Permanent Utility Easements will be required on Private Roads. These costs are not included.
5. At least 1 Fire Hydrant was added for every 300' of WM, and at least 1 valve was added for every 500' of WM.



PRINTED DATE: 12/23/2012  
 FILE PATH: \\P:\Projects\2012\12227\12227\CADD\Drawings\12227\12227.dwg  
 USER: jmc  
 PLOTTER: HP DesignJet 5000

**LEGEND**

- EXISTING WATERMAIN
- OPTION A WATERMAIN
- OPTION B WATERMAIN
- INTERNAL SUBDIVISION WATERMAIN
- BRIARCREST WATERMAIN CONNECTION