

# VILLAGE OF BARRINGTON HILLS

## Roads & Bridges Committee

### NOTICE OF MEETING



Tuesday, December 16, 2014 ~ 3:00 pm  
112 Algonquin Road

#### **AGENDA**

1. Organizational
  - 1.1 Call to Order
  - 1.2 Roll Call
2. Discussion Items
  - 2.1 2015 Meeting Schedule
  - 2.2 2015 Drainage Program- Bid Results
  - 2.3 2015 Road Program- Draft Budget & Scope
  - 2.4 Village of Algonquin- Spring Creek/Highland Avenue Project - PDR & Preliminary Plan Set
  - 2.5 LCDOT/Village of Barrington – Hart Road ITEP Project Draft LCDOT Letter
  - 2.6 Snow Plowing & Salt Costs
3. Public Comments
4. Adjournment

Chairman: Patty Meroni

**NOTICE AS POSTED**

# MEMORANDUM

To: Robert Kosin, Village of Barrington Hills, Village Administrator  
Patty Meroni, VBH Chairman Roads & Bridges

From: Daniel J. Strahan, P.E., CFM  
Gewalt Hamilton Associates

Date: December 12, 2014

Re: Roads & Bridges Committee Meeting  
Monthly Meeting Schedule

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At the request of the Village Road of Trustees, future meetings of the Roads & Bridges Committee will be publicly noticed with supporting materials posted in advance of the meeting. The table below is the recommended meeting schedule; in general the intent is for the Roads & Bridges Committee to meet approximately one week prior to the Board of Trustees to allow for the monthly report to be completed prior to the Trustees e-packet posting.

<b>Roads &amp; Bridges Committee Meeting</b> <b>3:00 PM</b>	<b>Village Board Meeting (Draft Schedule)</b> <b>6:30 PM</b>
<b>Tuesday, January 20<sup>th</sup></b>	<b>Monday, January 26</b>
<b>Tuesday, February 17<sup>th</sup></b>	<b>Monday, February 23</b>
<b>Tuesday, March 24<sup>th</sup></b>	<b>Monday, March 30</b>
<b>Tuesday, April 21<sup>st</sup></b>	<b>Monday, April 27</b>
<b>Thursday, May 21<sup>st</sup></b>	<b>Wednesday, May 27</b>
<b>Tuesday, June 16<sup>th</sup></b>	<b>Monday, June 22</b>
<b>Tuesday, July 20<sup>th</sup></b>	<b>Monday, July 27</b>
<b>Tuesday, August 18<sup>th</sup></b>	<b>Monday, August 24</b>
<b>Tuesday, September 22<sup>nd</sup></b>	<b>Monday, September 28</b>
<b>Tuesday, October 20<sup>th</sup></b>	<b>Monday, October 26</b>
<b>Thursday, November 12<sup>th</sup></b>	<b>Thursday, November 19</b>
<b>Thursday, December 10<sup>th</sup></b>	<b>Thursday, December 17</b>

December 12, 2014

Mr. Martin McLaughlin  
President  
Village of Barrington Hills  
112 Algonquin Road  
Barrington Hills, Illinois 60010

Re: 2015 Drainage Program- Merri Oaks Road Drainage Improvements  
Bid Recommendation

Dear Mr. McLaughlin:

On Thursday, December 11, 2014 at 2:00 PM bids for the above referenced project were received, opened and read aloud at the Village Hall. Attached are the bid tabulations and summary of the bids received along with the engineer's estimate of probable cost. Ten bids were received for the project, which includes the extension of an existing storm sewer on Ridge Road approximately 500' down Merri Oaks Road. The low bidder was Copenhagen Construction of Gilberts, Illinois. Copenhagen Construction submitted a base bid of \$92,571.50. RA Mancini of Lakemoor, IL submitted the second lowest base bid at \$94,713.00. The Engineer's Opinion of Probable Cost for this project was \$96,907.50; the draft 2015 budget had allocated \$120,000.00 for Drainage Management.

	<b>Copenhagen Construction</b>	<b>R.A. Mancini</b>	<b>EOPC</b>
Base Bid	\$92,571.50	\$94,713.00	\$96,907.50
Alternate Bid Items	\$7,425.00	\$8,000.00	\$12,000.00
Total Bid Incl. Alternates	\$99,996.50	\$102,713.00	\$108,907.50

### **Contractor Review**

The contractors submitting the two lowest bids have both completed projects in the Village previously. Copenhagen Construction, Inc. completed the 2009 and 2011 Drainage Program projects. R.A. Mancini completed the River Road Phase Two Drainage Improvements, also in 2009. Both contractors would be qualified to complete the proposed scope of work.

### **Alternate Bid Item Summary**

The project was bid with a base scope of work as well as three separate bid items that were referred to in the plans and the specifications as "Alternate Bid Items." This project was initially designed with a gravity outlet to an existing drainage easement into Oak Lake, approximately 1500' further east. Part of the initial scope included extending a storm sewer to collect runoff from an existing depressional area at the northeast corner of Ridge & Merri Oaks within the front (south) yard of the property at 315 Ridge

Road. The scope has been reduced as the Village has not reached an agreement regarding use of the downstream easement, and now relies primarily on infiltration as opposed to gravity flow. The base bid items will meet the primary project goal of providing a suitable means to route excess runoff from the west side of Ridge Road to the south side of Merri Oaks Road. The alternate bid items would provide the added benefit of draining the south depressional area at 315 Ridge Road, but would require an easement from the homeowner as well as confirmation from the Village Attorney that the existing easement south of the Merri-Oaks right-of-way can be legally utilized. It is also noted that Lake County SMC had previously approved a grant in the amount of \$25,000 for the project.

**We recommend that the Village Board award the 2015 Drainage Program – Merri Oaks Road Drainage Improvements work package to Copenhagen Construction, Inc. of Gilberts, IL in the amount of \$99,996.50.** This would allow for completion of the full scope of work if the conditions outlined above are met for the alternate bid items while remaining within the Drainage Management budgeted amount.

The terms of the project specifications allow the contractor to complete the work in the winter (if weather conditions allow) or in the spring. In either case the contractor is required to complete the project within 25 working days and no later than May 31<sup>st</sup>, 2015. The seasonal weight restrictions will apply to this contract.

Sincerely,  
Gewalt Hamilton Associates, Inc.



Daniel J. Strahan, P.E., CFM  
Village Engineer

cc: Patty Meroni, Road and Bridges Chair  
Robert Kosin, Village Administrator

Village of Barrington Hills  
 2015 Drainage Program  
 GHA Project #9355.140

Bid Tabulation

December 11, 2014



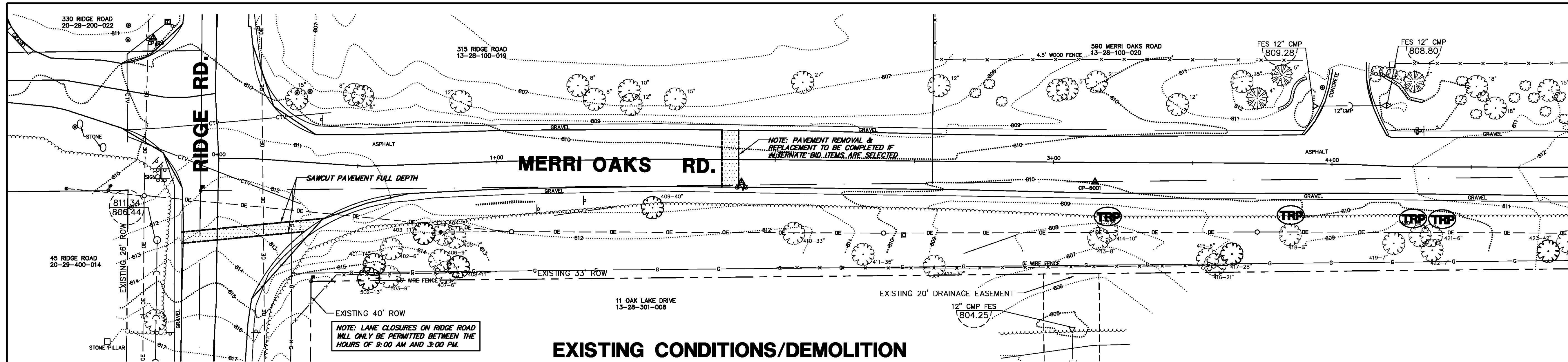
625 Forest Edge Drive, Vernon Hills, IL 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

www.gha-engineers.com

Item No.	Description	Unit	Qty.	Engineer's		Copenhaver Construction Gilberts, Illinois		RA Mancini Lakemoor, Illinois		DK Contractors Pleasant Prairie, WI		Martam Construction Elgin, Illinois		Lenny Hoffman Wilmette, Illinois		Sheridan Plumbing Bedford Park, Illinois		Berger Excavating Wauconda, Illinois		Maneval Construction Ingleside, Illinois		Lifco Construction Carol Stream, Illinois		Kovolic Construction Franklin Park, Illinois	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1.	Tree Root Pruning	EA	4	\$150.00	\$600.00	\$20.00	\$80.00	\$500.00	\$2,000.00	\$245.00	\$980.00	\$200.00	\$800.00	\$144.00	\$576.00	\$375.00	\$1,500.00	\$250.00	\$1,000.00	\$180.00	\$720.00	\$300.00	\$1,200.00	\$250.00	\$1,000.00
2.	Trench Backfill	CY	24.5	\$45.00	\$1,102.50	\$49.00	\$1,200.50	\$62.00	\$1,519.00	\$60.00	\$1,470.00	\$58.00	\$1,421.00	\$49.00	\$1,200.50	\$45.00	\$1,102.50	\$55.00	\$1,347.50	\$40.00	\$980.00	\$75.00	\$1,837.50	\$100.00	\$2,450.00
3.	Non-Special Waste Disposal (Special)	CY	50	\$75.00	\$3,750.00	\$30.00	\$1,500.00	\$91.00	\$4,550.00	\$90.00	\$4,500.00	\$50.00	\$2,500.00	\$10.00	\$500.00	\$20.00	\$1,000.00	\$1.00	\$50.00	\$5.00	\$250.00	\$30.00	\$1,500.00	\$150.00	\$7,500.00
4.	Storm Sewers, 12" PVC SDR-26	FT	83	\$65.00	\$5,395.00	\$48.00	\$3,984.00	\$91.00	\$7,553.00	\$90.00	\$7,470.00	\$84.00	\$6,972.00	\$114.00	\$9,462.00	\$65.00	\$5,395.00	\$104.00	\$8,632.00	\$62.00	\$5,146.00	\$122.00	\$10,126.00	\$100.00	\$8,300.00
5.	Storm Sewers, 12" C900 DR18 Certalok (Directional Drill)	FT	123	\$200.00	\$24,600.00	\$241.00	\$29,643.00	\$161.00	\$19,803.00	\$180.00	\$22,140.00	\$210.00	\$25,830.00	\$195.00	\$23,985.00	\$115.00	\$14,145.00	\$160.00	\$19,680.00	\$180.00	\$22,140.00	\$160.00	\$19,680.00	\$250.00	\$30,750.00
6.	Storm Sewers, Class A, Type 2, 24" RCP	FT	278	\$100.00	\$27,800.00	\$59.00	\$16,402.00	\$58.00	\$16,124.00	\$100.00	\$27,800.00	\$78.00	\$21,684.00	\$85.00	\$23,630.00	\$158.15	\$43,965.70	\$117.00	\$32,526.00	\$107.00	\$29,746.00	\$155.00	\$43,090.00	\$250.00	\$69,500.00
7.	Dry Well Catch Basin, Type A, 4" Diameter, Neenah R-2560-E1 Grate	EA	1	\$3,500.00	\$3,500.00	\$3,400.00	\$3,400.00	\$4,100.00	\$4,100.00	\$5,915.00	\$5,915.00	\$4,200.00	\$4,200.00	\$5,368.00	\$5,368.00	\$6,000.00	\$6,000.00	\$7,850.00	\$7,850.00	\$10,000.00	\$10,000.00	\$16,000.00	\$16,000.00	\$5,000.00	\$5,000.00
8.	Dry Well Catch Basin, Type A, 4" Diameter, Type 1 FR & CL	EA	3	\$3,500.00	\$10,500.00	\$3,100.00	\$9,300.00	\$4,000.00	\$12,000.00	\$6,015.00	\$18,045.00	\$4,000.00	\$12,000.00	\$5,168.00	\$15,504.00	\$9,000.00	\$27,000.00	\$7,650.00	\$22,950.00	\$10,000.00	\$30,000.00	\$15,000.00	\$45,000.00	\$5,000.00	\$15,000.00
9.	Furnish and Place Topsoil, 4"	SY	460	\$8.00	\$3,680.00	\$4.00	\$1,840.00	\$7.00	\$3,220.00	\$10.00	\$4,600.00	\$6.00	\$2,760.00	\$6.00	\$2,760.00	\$12.00	\$5,520.00	\$6.00	\$2,760.00	\$14.50	\$6,670.00	\$7.00	\$3,220.00	\$10.00	\$4,600.00
10.	Seeding, Class 2A	SY	460	\$3.00	\$1,380.00	\$2.00	\$920.00	\$5.00	\$2,300.00	\$1.00	\$460.00	\$3.00	\$1,380.00	\$2.25	\$1,035.00	\$2.00	\$920.00	\$0.75	\$345.00	\$2.30	\$1,058.00	\$1.00	\$460.00	\$5.00	\$2,300.00
11.	Erosion Control Blanket	SY	460	\$5.00	\$2,300.00	\$2.00	\$920.00	\$2.50	\$1,150.00	\$1.00	\$460.00	\$3.00	\$1,380.00	\$2.25	\$1,035.00	\$2.00	\$920.00	\$2.00	\$920.00	\$2.30	\$1,058.00	\$4.00	\$1,840.00	\$5.00	\$2,300.00
12.	Temporary Ditch Checks	EA	2	\$250.00	\$500.00	\$100.00	\$200.00	\$305.00	\$610.00	\$170.00	\$340.00	\$200.00	\$400.00	\$220.00	\$440.00	\$275.00	\$550.00	\$510.00	\$1,020.00	\$88.00	\$176.00	\$100.00	\$200.00	\$250.00	\$500.00
13.	Grading and Shaping Ditches	FT	50	\$15.00	\$750.00	\$15.00	\$750.00	\$62.00	\$3,100.00	\$5.00	\$250.00	\$70.00	\$3,500.00	\$63.00	\$3,150.00	\$15.00	\$750.00	\$5.00	\$250.00	\$65.00	\$3,250.00	\$20.00	\$1,000.00	\$50.00	\$2,500.00
14.	Pavement Placement, 6"	ST	35	\$90.00	\$3,150.00	\$98.00	\$3,430.00	\$260.00	\$9,100.00	\$100.00	\$3,500.00	\$161.00	\$5,635.00	\$242.00	\$8,470.00	\$225.00	\$7,875.00	\$210.00	\$7,350.00	\$186.00	\$6,510.00	\$100.00	\$3,500.00	\$180.00	\$6,300.00
15.	Inlet Filter Baskets	EA	2	\$200.00	\$400.00	\$1.00	\$2.00	\$192.00	\$384.00	\$305.00	\$610.00	\$200.00	\$400.00	\$166.00	\$332.00	\$125.00	\$250.00	\$225.00	\$450.00	\$129.00	\$258.00	\$130.00	\$260.00	\$250.00	\$500.00
16.	Traffic Control & Protection (Special)	LS	1	\$7,500.00	\$7,500.00	\$19,000.00	\$19,000.00	\$7,200.00	\$7,200.00	\$1,625.00	\$1,625.00	\$12,000.00	\$12,000.00	\$19,287.50	\$19,287.50	\$3,500.00	\$3,500.00	\$13,000.00	\$13,000.00	\$7,800.00	\$7,800.00	\$4,700.00	\$4,700.00	\$15,000.00	\$15,000.00
<b>Total Bid Amount</b>					<b>\$96,907.50</b>		<b>\$92,571.50</b>		<b>\$94,713.00</b>		<b>\$100,165.00</b>		<b>\$102,862.00</b>		<b>\$116,735.00</b>		<b>\$120,393.20</b>		<b>\$120,130.50</b>		<b>\$125,762.00</b>		<b>\$153,613.50</b>		<b>\$173,500.00</b>
<b>ALTERNATE BID ITEMS</b>																									
A1.	Storm Sewers, Class A, Type 2, 12" RCP	FT	75	\$100.00	\$7,500.00	\$67.00	\$5,025.00	\$68.00	\$5,100.00	\$55.00	\$4,125.00	\$60.00	\$4,500.00	\$59.00	\$4,425.00	\$62.00	\$4,650.00	\$77.25	\$5,793.75	\$82.60	\$6,195.00	\$50.00	\$3,750.00	\$100.00	\$7,500.00
A2.	Catch Basin, Type C, 2" Diameter, Neenah R-2560-E1 Grate	EA	1	\$3,500.00	\$3,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,735.00	\$1,735.00	\$1,920.00	\$1,920.00	\$1,906.00	\$1,906.00	\$1,450.00	\$1,450.00	\$1,675.00	\$1,675.00	\$2,950.00	\$2,950.00	\$1,300.00	\$1,300.00	\$2,000.00	\$2,000.00
A3.	Precast Reinforced Flared End Section, 12" with Grate	EA	1	\$1,000.00	\$1,000.00	\$900.00	\$900.00	\$1,400.00	\$1,400.00	\$2,000.00	\$2,000.00	\$1,200.00	\$1,200.00	\$897.00	\$897.00	\$600.00	\$600.00	\$1,450.00	\$1,450.00	\$1,770.00	\$1,770.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00
<b>Total Alternate Bid Items</b>					<b>\$12,000.00</b>		<b>\$7,425.00</b>		<b>\$8,000.00</b>		<b>\$7,860.00</b>		<b>\$7,620.00</b>		<b>\$7,228.00</b>		<b>\$6,700.00</b>		<b>\$8,918.75</b>		<b>\$10,915.00</b>		<b>\$6,050.00</b>		<b>\$10,500.00</b>
<b>Total Bid Including Alternates</b>					<b>\$108,907.50</b>		<b>\$99,996.50</b>		<b>\$102,713.00</b>		<b>\$108,025.00</b>		<b>\$110,482.00</b>		<b>\$123,963.00</b>		<b>\$127,093.20</b>		<b>\$129,049.25</b>		<b>\$136,677.00</b>		<b>\$159,663.50</b>		<b>\$184,000.00</b>
												Read As:	\$116,482.00												

I HEREBY CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT SUMMARY OF PROPOSALS RECEIVED

PROJECT MANAGER 

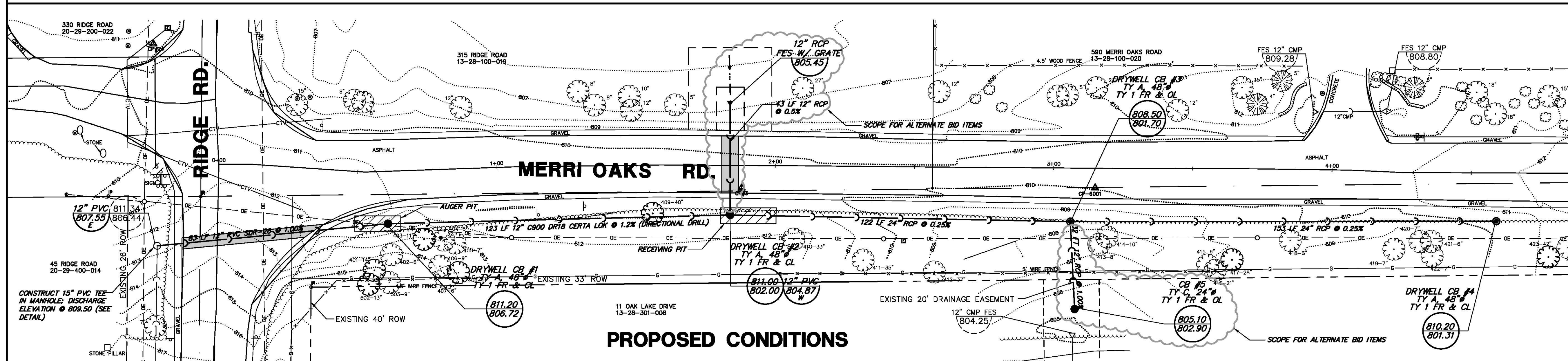


**EXISTING/DEMO LEGEND**

- SAWCUT PAVEMENT (FULL DEPTH)
- PAVEMENT REMOVAL (FULL DEPTH)
- VH HERITAGE TREE
- TREE ROOT PRUNING

**DEMOLITION NOTES:**

- AS AN INITIAL ORDER OF OPERATION TRAFFIC CONTROL SIGNS MUST BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATIONS. A MINIMUM OF ONE LANE OF TRAFFIC MUST REMAIN OPEN AT ALL TIMES. PROVIDE FLAGGERS WHENEVER CONSTRUCTION OPERATIONS LIMIT TRAFFIC FLOW TO ONE LANE.
  - INLET FILTER BASKETS SHALL BE PLACED IN ALL EXISTING DRAINAGE STRUCTURES PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES AND REMAIN IN PLACE THROUGHOUT CONSTRUCTION.
  - SAWCUT PAVEMENT AND REMOVED EXISTING CULVERTS WHERE SHOWN.
  - PROVIDE BARRICADES ALONG EDGES OF EXCAVATION AT CLOSE OF EACH CONSTRUCTION DAY.
  - COMPLETE TREE ROOT PRUNING AT LOCATIONS INDICATED ALONG TRENCH LIMITS PRIOR TO EXCAVATION.
- NOTE: WHERE SHOWN, LOT LINES AND RIGHT-OF-WAY LINES ARE APPROXIMATE AND FOR REFERENCE ONLY. A BOUNDARY SURVEY WAS NOT COMPLETED AS PART OF THE EXISTING CONDITIONS TOPOGRAPHY.

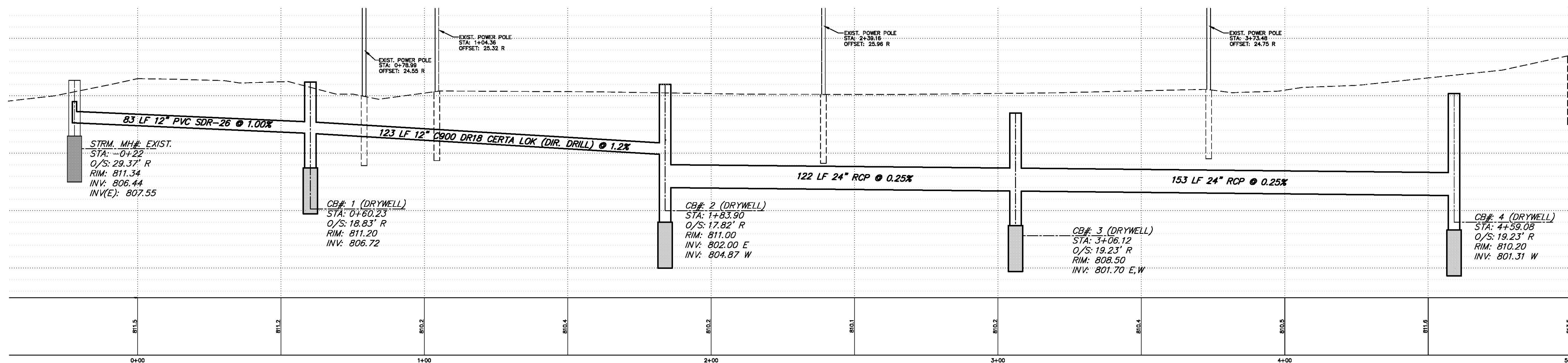
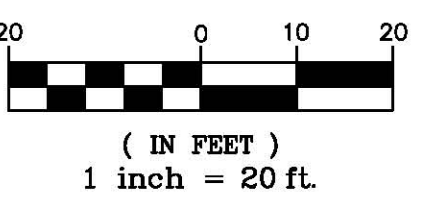


**PROPOSED LEGEND**

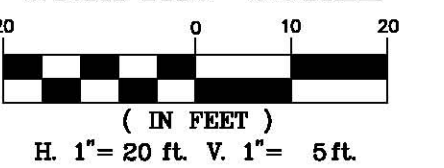
- BITUMINOUS PAVEMENT SECTION (FULL DEPTH PAVEMENT REPLACEMENT)
- AUGER PIT/RECEIVING PIT FOR DIRECTIONAL DRILL OPERATIONS

- RESTORE ALL DISTURBED GRASS AREAS WITH 4" TOPSOIL, CLASS 2A SEEDING, & EROSION CONTROL BLANKET.
- ALL PROPOSED DRAINAGE SWALES SHALL BE BUILT TO MINIMUM 1.5% SLOPE. MINIMUM CROSS SLOPE OF DRAINAGE SWALES SHALL BE 3H:1V.

**GRAPHIC SCALE**



**GRAPHIC SCALE**



**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
850 Forest Edge Drive ■ Vernon Hills, IL. 60061  
TEL 847.478.9700 ■ FAX 847.478.9701

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**PLAN AND PROFILE**  
**MERRI OAKS ROAD DRAINAGE IMPROVEMENTS**  
**2015 DRAINAGE PROGRAM**  
**BARRINGTON HILLS, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION
1	DJS	11-14-14	PERMIT & BID SET				

FILE: 9355.140-PR1.dwg	SHEET NUMBER: <b>2</b>
DRAWN BY: GM	GHA PROJECT #: 9355.140
DATE: 5-13-08	
CHECKED BY: DJS	SCALE: 1"=20'
DATE: 5-22-08	OF 4 SHEETS

## MEMORANDUM

To: Robert Kosin, VBH Director of Administration  
Patty Meroni, VBH Chairman Roads & Bridges

From: Daniel J. Strahan, P.E., CFM  
Gewalt Hamilton Associates

Date: December 12, 2014

Re: 2015 Road Program- Draft Budget

At the November meeting of the Village Board of Trustees it was requested that the total budget for Roads & Bridges be reduced from \$1,941,000.00 to \$1,785,846.00. To accommodate this adjustment, it was proposed that the "Drainage Maintenance" line item be reduced from \$200,000.00 to \$120,000.00 and that the remainder of the adjustment be completed within the "Road Maintenance Contracts" line item. Below is a summary of the budgeted 2015 expenses (subject to approval at the December Board meeting) under the Roads & Bridges account.

Account	Description	2015 Budget
90-50701	Road Maintenance Contracts	\$986,846.00
90-50702	Snow Plowing Contracts	\$260,000.00
90-50703	Mowing/Cleanup Contracts	\$35,000.00
90-50704	Sign Purchase/Installation	\$14,000.00
90-50705	Drainage Management	\$120,000.00
90-50706	Engineering Fees	\$180,000.00
90-50707	Road Striping	\$1,000.00
90-50708	Equipment Maintenance	\$4,000.00
90-50709	Road Patching Contracts	\$15,000.00
90-50710	Equipment Purchases	\$2,000.00
90-50711	Bridge Inspections	\$8,000.00
90-50713	Cuba Road Bridge Restoral Expenses	\$160,000.00
Total Proposed Budget:		\$1,785,846.00

The 2015 Road Program is funded through the "Road Maintenance Contracts" line item and supplemented by MFT funds if needed. Assuming \$100,000 of MFT funds are utilized as currently indicated in the budget, the total amount available for the 2015 Road Program would be \$1,086,846.00.

In August GHA presented a draft 2015-2019 Road Program to the Village Board which included two options for the approach to road maintenance over the next five years. Based on the available budget, the Village would not be able to fund Option 2 (Maintain Current Pavement Condition & Eliminate Backlog in 5 Years) in 2015. Based on preliminary budget numbers, it is anticipated that the cost to resurface the

roads indicated under Option 1 (Maintain Current Pavement Condition) as well as the remaining portion of Meadow Hill Road that was unfunded in 2014 is slightly above the funds available.

Road	Limits	Length	Preliminary Budget
<b>Meadow Hill Road</b>	S. of Fox Hunt to Spring Creek	3250'	\$199,000
<b>Haegers Bend Road</b>	County Line to Chapel	7875'	\$481,000
<b>Plum Tree Road</b>	Ridge Road to Village Limits	6877'	\$413,000
<b><i>Subtotal</i></b>		<i>18552' (3.51 Miles)</i>	<i>\$1,090,000</i>

Our office is in the process of developing detailed estimates to resurface the roads indicated. Based on the condition of Haegers Bend Road and based on the suggestions made by the Village Board, we are also exploring the costs to complete full depth reclamation on Haeger's Bend Road. This approach would yield some of the same benefits of full reconstruction while maintaining the existing width of pavement (no widening would be required on either side). We have found the cost of this approach to be competitive with patching and resurfacing in cases when a high percentage of the pavement is patched. We will investigate these costs and have a more complete report to provide to the Roads & Bridges Committee in January.



## MEMORANDUM

To: Robert Kosin, VBH Director of Administration  
Patty Meroni, VBH Chairman Roads & Bridges

From: Daniel J. Strahan, P.E., CFM  
Gewalt Hamilton Associates

Date: December 12, 2014

Re: Village of Algonquin  
Highland Avenue/Spring Creek Road PDR

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We have received from the Village of Algonquin two copies of the draft Project Development Report for the Highland Avenue/Spring Creek Road Improvements.

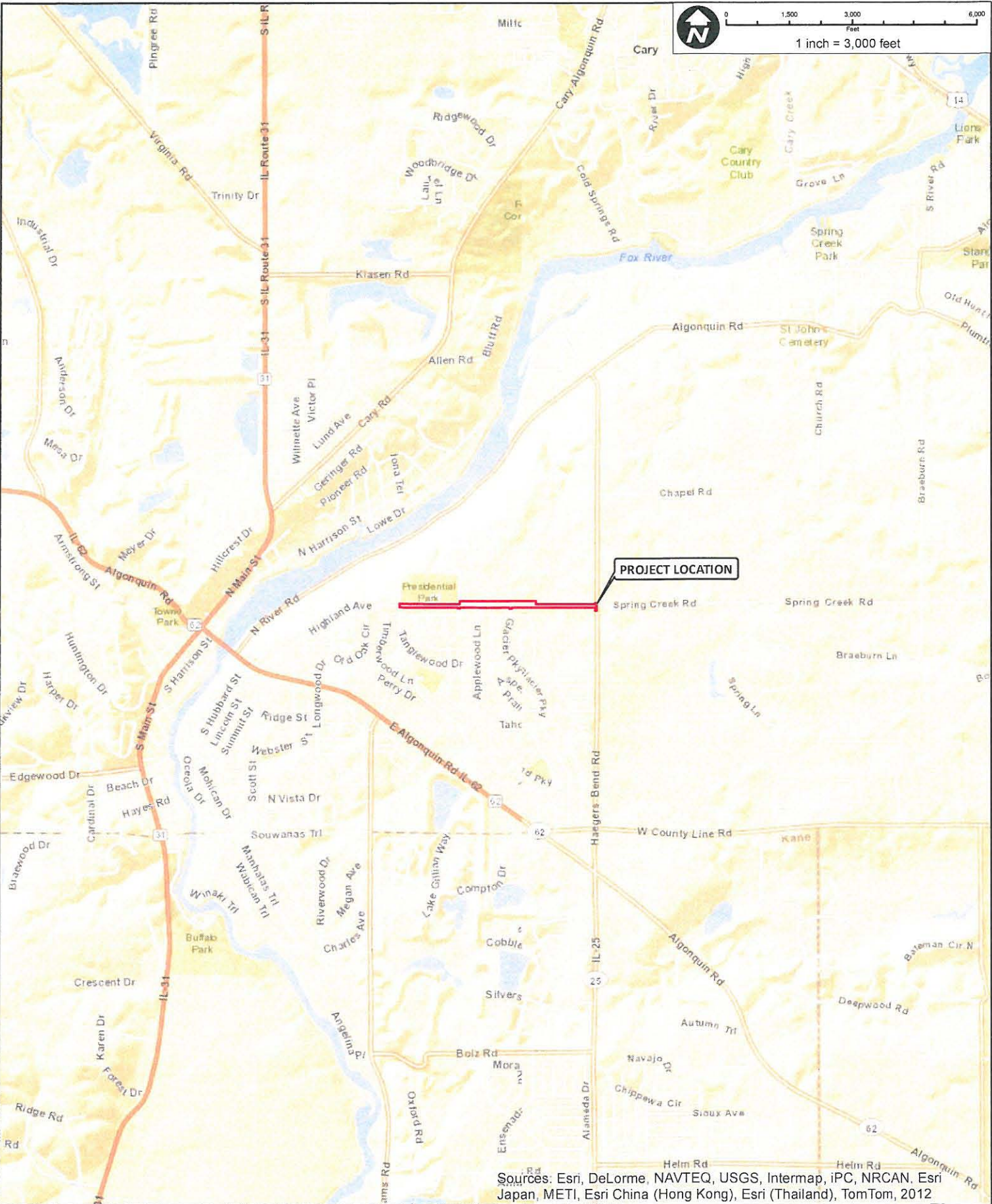
In 2012 the Village of Algonquin applied for and was awarded STP funding for roadway improvements on Highland Avenue (Spring Creek within Barrington Hills) from Tanglewood Drive to Hager's Bend Road. On Monday, November 3, 2014, I met with Bob Mitchard, the Algonquin Public Works Director, to discuss a preliminary plan set that had been prepared by CBBEL on behalf of the Village of Algonquin. Earlier this week we received a copy of the Project Development Report for the project. The plans and report are currently under review and comments will be generated back to the Village of Algonquin the week of December 15, 2014. The project is currently scheduled for construction in 2016.

Portions of the PDR are attached to this document. Generally the project would include resurfacing operations for the portion of Spring Creek Road within the Village of Barrington Hills, between the western Village limits and Haegers Bend Road.



0 1,500 3,000 6,000  
Feet

1 inch = 3,000 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2012

CLIENT:

**VILLAGE OF ALGONQUIN**

TITLE:

**PROJECT LOCATION MAP  
HIGHLAND AVENUE**

PROJ. NO. 070273.00040

DATE: 11/12/2014

SHEET 1 OF 1

DRAWING NO.

**E-2.1**



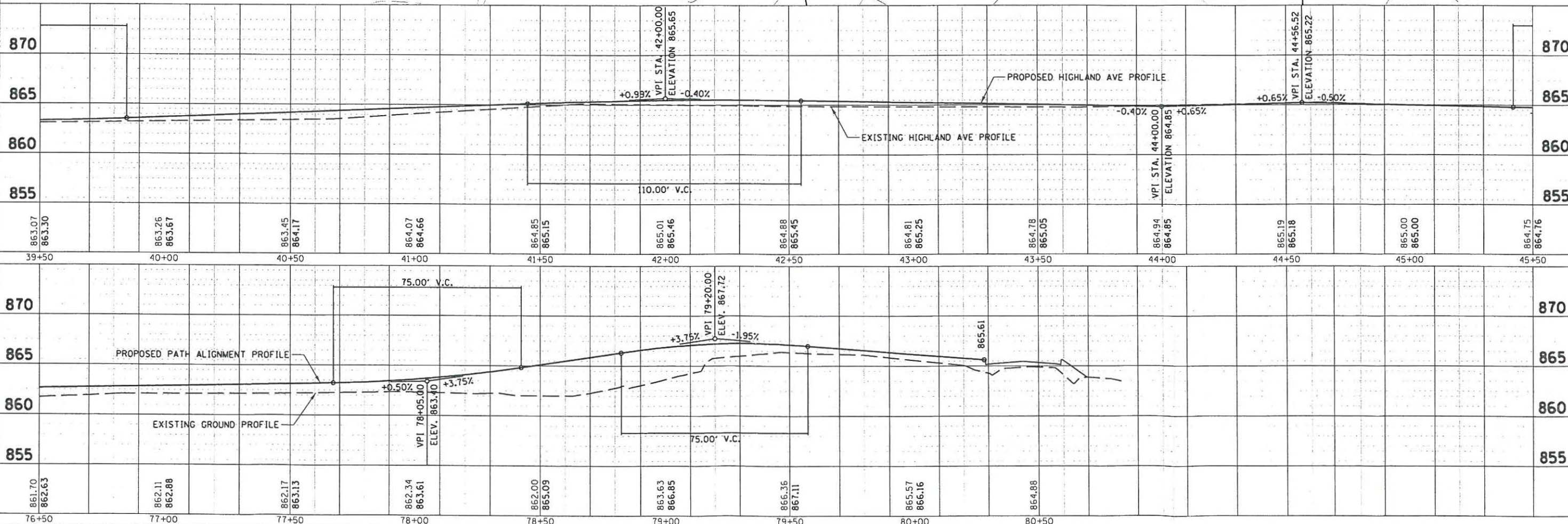
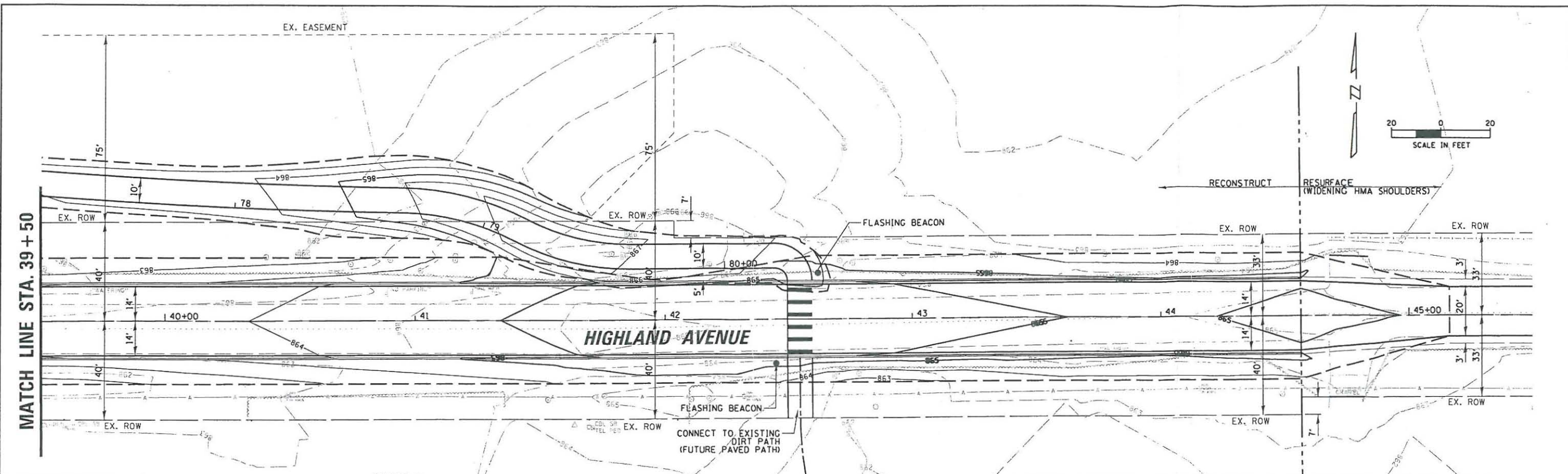
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600 · Rosemont, Illinois 60018 · (847) 823-0500

DSGN.		SCALE:	1" = 3,000'
DWN.		USER:	mhayes
CHKD.		PLOT DATE:	11/12/2014
FILE NAME:	LocationMap_2		

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	REVISIONS	
	NO. OF MAY CHECKED	
	ADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	REVISIONS	
	NO. OF MAY CHECKED	
	ADD FILE NAME	

FILE NAME: N:\ARL\CONQUIN\878273\878273\_080405\1\APP\_078273\_085.SHT



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39+50	40+00	40+50	41+00	41+50	42+00	42+50	43+00	43+50	44+00	44+50	45+00	45+50

861.70 862.63	862.11 862.88	862.17 863.13	862.34 863.61	862.00 865.09	863.63 866.85	866.36 867.11	865.57 866.16	864.88				
76+50	77+00	77+50	78+00	78+50	79+00	79+50	80+00	80+50				

CHRISTOPHER B. BURKE ENGINEERING, LTD.  
 8575 W. Higgins Road, Suite 800  
 Rosemont, Illinois 60018  
 (847) 822-0500

USER NAME: psonetos	DESIGNED: SNS	REVISED:
CHECKED: PWN	CHECKED: 09/02/2011	REVISED:
PLOT SCALE: 1/40'	DRAWN: MEK	REVISED:
PLOT DATE: 12/11/2014	CHECKED:	REVISED:

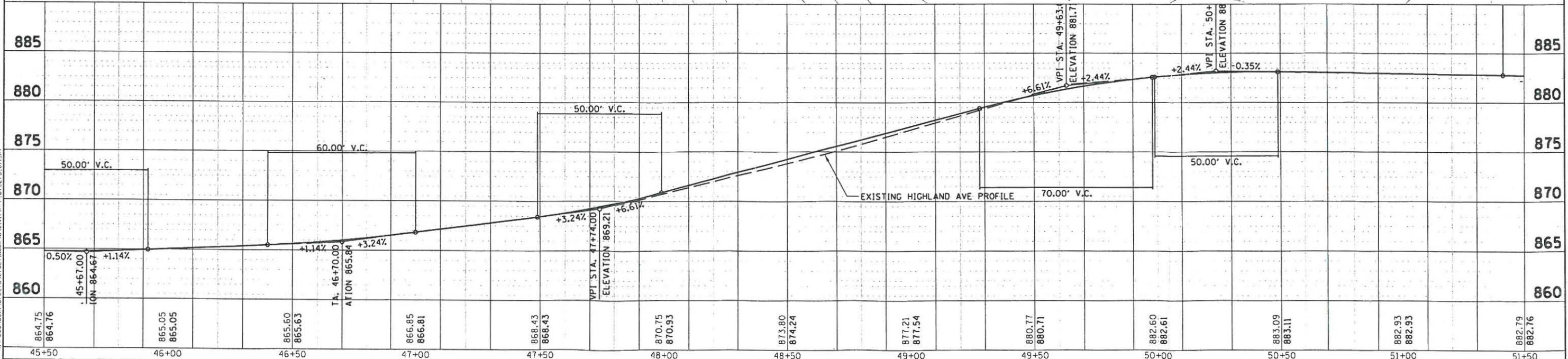
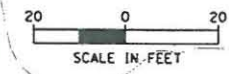
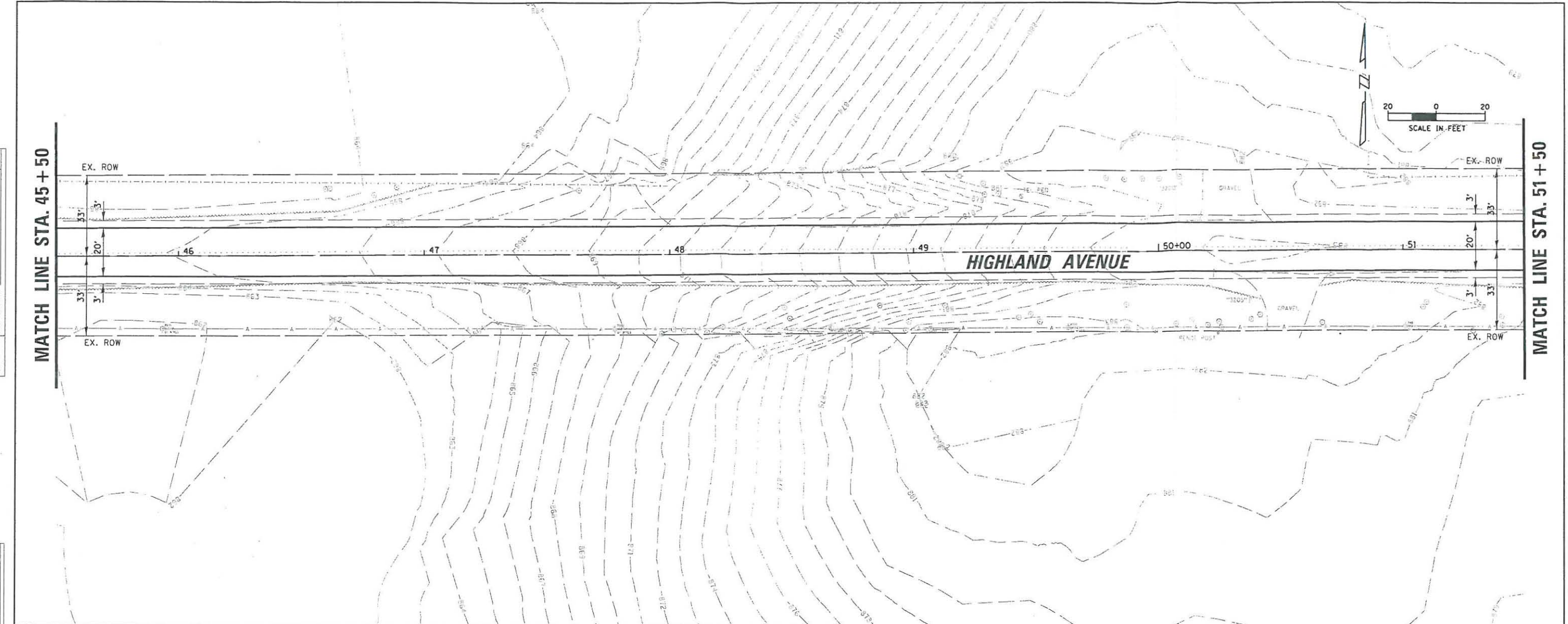
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

HIGHLAND AVENUE PLAN AND PROFILE			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MCHENRY	27	6
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	FILED	
	REVISIONS	
	CHECKED	
	NO.	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	FILED	
	REVISIONS	
	CHECKED	
	NO.	
	DATE	



FILE NAME: \\NALGON\JIN\27627\01\0221\880148\CG\1\1\PPP\_070213\_0734T

**CB** CHRISTOPHER B. BURKE ENGINEERING, LTD.  
 875 W. Higgins Road, Suite 500  
 Rosemont, Illinois 60018  
 (847) 813-0500

USER NAME	puentos
DESIGNED	SNS
DRAWN	PWN
CHECKED	MEK
DATE	09/02/2011

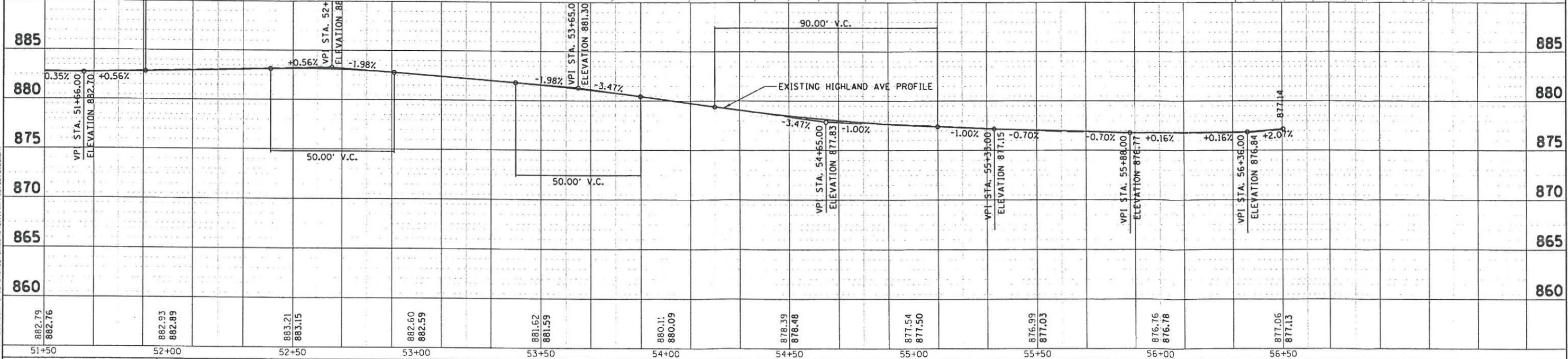
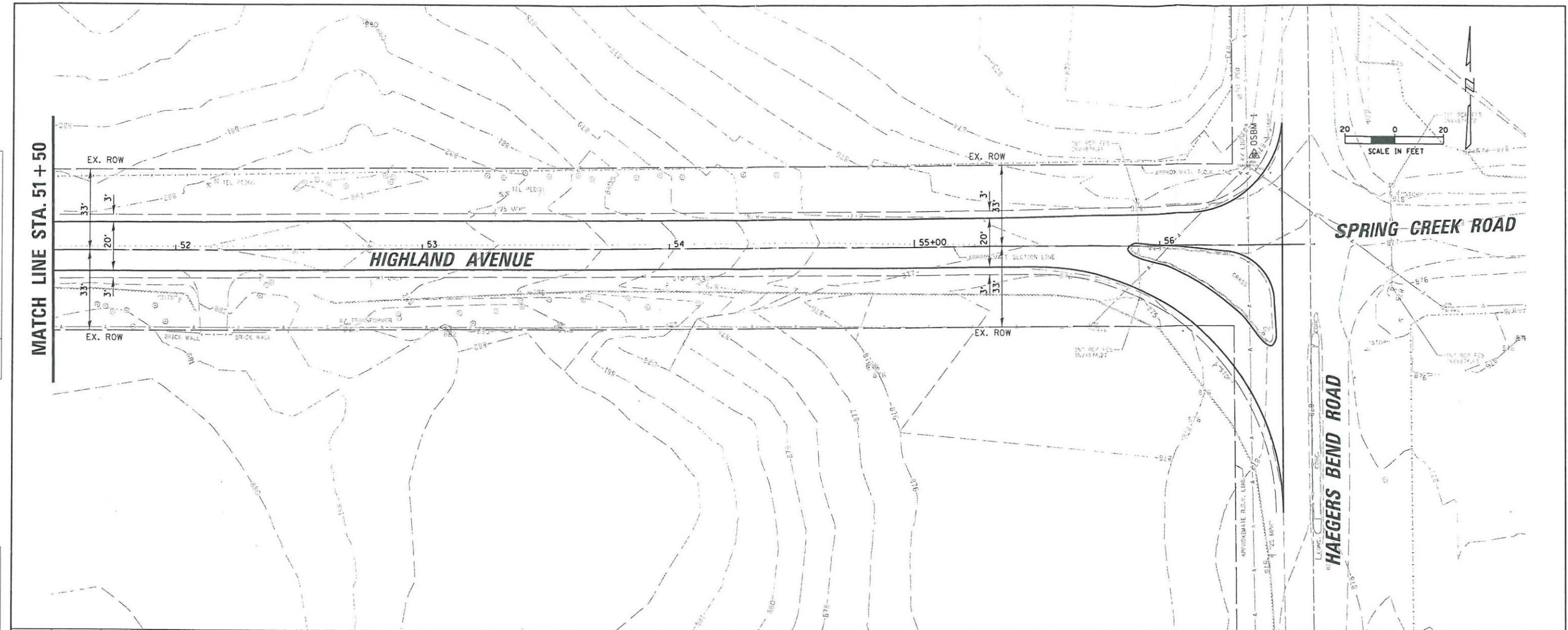
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

HIGHLAND AVENUE PLAN AND PROFILE  
 SCALE: 1" = 20'  
 SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MCHENRY	27	7
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

PLAN	SUBMITTED	DATE
	NOTED	
	PLOTTED	
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PROFILE	SUBMITTED	DATE
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FILE NAME: N:\ALCONQUIN\78273\878273.DWG\878273.DWG

**CB** CHRISTOPHER B. BURKE ENGINEERING, LTD.  
 8575 W. Higgins Road, Suite 800  
 Rosemont, Illinois 60018  
 (847) 923-0500

USER NAME	psantos
DESIGNED	SNS
DRAWN	PWN
CHECKED	MEK
DATE	09/02/2011
REVISION	
REVISION	
REVISION	
REVISION	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

HIGHLAND AVENUE PLAN AND PROFILE  
 SCALE: 1" = 20'  
 SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MCHENRY	27	8
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**Engineer's Estimate of Probable Costs  
Highland Avenue Improvement  
Tanglewood Drive/Tanglewood Court  
to Haegers Bend Road**

	Unit	Unit Cost	Quantity	Cost
<b>Earthwork Items</b>				
Earth Excavation	CY	\$25.0	5000	\$138,000
Restoration	SY	\$10.0	9100	\$91,000
Earthwork Sub-Total:				<b>\$229,000</b>
<b>Removal Items</b>				
Pavement Removal - Pavement Reconstruction	SY	\$5.0	8400	\$42,000
HMA Surface Removal - Pavement Resurfacing	SY	\$5.0	3000	\$15,000
Removal Sub-Total:				<b>\$57,000</b>
<b>Roadway Items</b>				
Pavement Patching - Pavement Resurfacing	SY	70.00	450	\$32,000
Surface - Pavement Reconstruction and Resurfacing	TON	\$75.0	1400	\$105,000
Binder 4" - Pavement Reconstruction	TON	\$70.0	2400	\$168,000
Binder 1" - Pavement Resurfacing	TON	\$85.0	175	\$15,000
Agg Subgrade 12" - Pavement Reconstruction	SY	\$15.0	12600	\$189,000
Type B-6.12 CC&G - Pavement Reconstruction	FOOT	\$18.0	7000	\$126,000
Agg Shoulders - Pavement Resurfacing	SY	\$12.0	800	\$10,000
HMA 3" - Shared Use Path	TON	\$90.0	440	\$40,000
Agg 6" - Shared Use Path	SY	\$8.0	2600	\$21,000
Roadway Sub-Total:				<b>\$704,000</b>
<b>Drainage Items</b>				
Mailine Sewer (includes trench backfill)	FOOT	\$90.0	3432	\$309,000
Laterals 12"	FOOT	\$60.0	560	\$34,000
Catch Basins	EACH	\$2,600.0	40	\$104,000
Manholes	EACH	\$3,200.0	20	\$64,000
Drainage Sub-Total:				<b>\$510,000</b>
Construction Sub-Total:				<b>\$1,500,000</b>
Traffic Control and Protection				\$20,000
<b>Construction Total:</b>				<b>\$1,520,000</b>
Contingency (20% of Construction Total)				\$304,000
<b>Project Total:</b>				<b>\$1,824,000</b>

November 26, 2014

Ms. Emily Karry  
Director of Planning & Programming  
Lake County Division of Transportation  
600 W. Winchester Road  
Libertyville, IL 60048

Re: US14/Hart Road Improvements  
Proposed Sidewalk

Dear Ms. Karry:

The Village understands that a meeting was held at the Lake County Division of Transportation (LCDOT) on Thursday, December 6, 2014 regarding proposed sidewalk improvements that may be added to the scope of the US 14/Hart Road intersection improvements project currently in the design phase. Further, it is understood that a request was made to LCDOT by a Barrington Hills resident with a driveway within the project limits to add pedestrian considerations to the west side of Hart Road. As this section of Hart Road is located within the corporate limits of Barrington Hills (though maintained by LCDOT) we understand that the Village Engineer, Dan Strahan, was asked whether the Village would participate in the costs of a sidewalk or path in this location, in accordance with county funding policies.

Please note that the Village of Barrington Hills does not currently maintain any sidewalks or roadside paths of any kind within its corporate limits. In addition, the Village does not maintain any infrastructure improvements within the right-of-way of any roads maintained by other jurisdictions. While the Village would not object if Lake County DOT pursues further pedestrian connectivity within its right-of-way, for the reasons outlined above the Village of Barrington Hills would not participate in the construction costs or future maintenance of such improvements along Hart Road.

If you have any questions I can be reached at 847-551-3000 or at [rkosin@barringtonhills-il.gov](mailto:rkosin@barringtonhills-il.gov).

Sincerely,  
Village of Barrington Hills

Robert Kosin, AICP  
Director of Administration

cc: Barrington Hills Village Board