MEMORANDUM

DATE: October 14, 2011

TO: Jane Turley, Senior Planner,

Village of Orland Park, Planning Division

FROM: Bryan L. Luke, PE

SUBJECT: Village of Orland Park

153rd Bike Path Project (CBBEL Project # 11-0166)

Attached is the updated concept level cost estimate which includes the anticipated construction cost savings by relocating the path outside the ROW. It now shows a more detailed breakout of the anticipated savings at each of the two parcels (Ashburn Baptist Church and 1716 153rd St). Below is a brief explanation of the anticipated savings for each parcel.

1716 153rd St.

Subsequent to the initial submittal of the cost savings analysis it was found that Cook County (County) had recently acquired the additional ROW needed at the 1716 153rd St property.

The preferred alignment option is in the additional ROW acquired by the County and the associated anticipated cost savings shown on the attached spreadsheet should be reflected in the project's final cost estimate.

Ashburn Baptist Church.

Besides the anticipated construction cost savings there are other significant benefits to locating the path outside the ROW at the Church. They include:

- Reduction of potential pedestrian/vehicle conflicts due to the increased lateral separation between roadway and path
- Decreased potential of path differential settlement
- Decreased conflict with potential future utility maintenance
- Decreased conflict with potential intersection channelization on 153rd St
- Less impact on roadway drainage system

At a meeting with the Village and Church to discuss the possibility of acquiring a Permanent Easement for the path, the Church brought up the separate issue of stormwater backup and slow draw-down time for their pond (and also at the roadway

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ditch drainage structure). This issue is resultant of the continual decay of the downstream storm water channel on private property across the 153rd Street north of the Church. This issue is related to the path project, as either path alignment (inside ROW or outside of ROW) crosses the affected area, however, neither path alignment will eliminate or fix this downstream issue. As all parties are aware, the cause and solution to this issue are located on the downstream property and although the Village is proposing to address them during the 153rd St Bike Path Project (Project), the cost associated with addressing this issue should be considered independent of the Project.

The preferred alignment option is outside the ROW at the Church. If the Village pursues this option the associated anticipated cost savings shown on the attached spreadsheet should be reflected in the Project's final cost estimate.

In summary, the Village will still realize the total anticipated Project construction cost savings amount presented as well as having the preferred design alignment; the County has acquired the additional ROW for 1716 153rd St and the Church has agreed to grant an easement. If the Village choose to assist the Church and address the offsite drainage issues, this can be accommodated during the Project but should not be considered as an additional cost to the 153rd Street Bike Path Project.

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153rd St" Property 27-17-103-005)	ITEM COST	\$1,991	0\$	\$7,488	\$6,336	\$0	\$0	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000	\$0	\$483	\$0	\$780	\$0	\$12,800	\$1,600	\$54,478	\$1,090	\$545	\$5,448	704 704
Savings At "1716 153rd St" Property (Sta 119+00, PIN 27-17-103-005)	QUANTITY	71	0	192	192	0	0	1	0	0	0	0	0	0	0	0	200	0	161	0	156	0	320	80	0				
Savings At Church	ITEM COST	\$12,942	0\$	\$2,925	\$2,475	\$1,800	\$	\$0	0\$	0\$	0\$	\$0	0\$	0\$	0\$	\$0	0\$	\$0	\$1,737	\$1,737	\$0	\$0	\$31,600	\$2,840	\$58,056	\$1,161	\$581	\$5,806	AGE GOA
	QUANTITY	462	0	75	75	6	0	0	0	0	0	0	0	0	0	0	0	0	579	579	0	0	790	142	0				
Combined Savings Outside of Ex ROW	ITEM COST	\$14,933	\$0	\$10,413	\$8,811	\$1,800	0\$	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000	\$0	\$2,220	\$1,737	\$780	\$0	\$44,400	\$4,440	\$112,534	\$2,251	\$1,126	\$11,254	\$127 165
	QUANTITY	533	0	267	267	6	0	-	0	0	0	0	0	0	0	0	200	0	740	579	156	0	1,110	222					
Alignment Option Outside of Ex ROW	ITEM COST	\$44,800	\$16,000	\$3,471	\$2,937	\$6,600	\$2,000	\$0	\$75,000	\$23,000	\$1,200	\$48,000	\$22,848	\$17,024	\$5,670	\$5,400	\$0	\$35,000	\$12,090	\$9,531	\$4,280	\$1,536	\$108,000	\$20,800	\$465,187	\$9,304	\$4,652	\$46,519	\$525,662
	QUANTITY	1,600	6,400	88	88	33	40	0	1,250	10	9	3,200	269	179	162	3,600	0	1	4,030	3,177	856	256	2,700	1,040					
Alignment Option Within Ex ROW	ITEM COST	\$59,733	\$16,000	\$13,884	\$11,748	\$8,400	\$2,000	\$3,000	\$75,000	\$23,000	\$1,200	\$48,000	\$22,848	\$17,024	\$5,670	\$5,400	\$20,000	\$35,000	\$14,310	\$11,268	\$5,060	\$1,536	\$152,400	\$25,240	\$577,721	\$11,555	\$5,778	\$57,773	\$652.827
	QUANTITY	2,133	6,400	356	356	42	40	-	1,250	10	9	3,200	269	179	162	3,600	200	-	4,770	3,756	1,012	256	3,810	1,262					
	UNIT COST	\$28	\$3	\$39	\$33	\$200	\$50	\$3,000	\$60	\$2,300	\$200	\$15	\$85	\$6\$	\$35	\$1.5	\$100	\$35,000	\$3	\$3	\$5	\$6	\$40	\$20		2%	1%	10%	
	UNIT	ζ	SΥ	С	ζ	EA	느	EA	느	EA	EA	SΥ	TON	TON	SΥ	Ħ	Ŧ	rs	SΥ	SΥ	SΥ	SF	SF	FT					
Ī	. ITEMS	EARTH EXCAVATION	GROUND STABILIZATON FABRIC	UNSUITABLE EXCAVATION	PGE SUBGRADE	TREE REMOVAL	CURB REM & REPLACE	RELOCATE FIRE HYDRANT	15" STORM SEWER	CATCH BASINS	ADJUSTING FRAMES AND LIDS	AGGREGATE SUBGRADE 6"	2"		DRIVEWAY REMOVAL / REPLACEMENT	THERMO PVMT MARKING LINE 4"	STEEL PLATE BEAM GRDRL W/ BIKE RAIL & END	PEDESTRIAN SIGNALS	TOPSOIL F&P 4"	SEEDING / EROSION BLANKET	SODDING, SALT TOLERANT	SIDEWALK W/ DETECTABLE WARNINGS	RETAINING WALLS	RAILINGS	SUB TOTAL	EROSION AND SEDIMENT CONTROL	TRAFFIC CONTROL & PROTECTION	CONTINGENCY	TOTAL
	ITEM NO.	-	2	3	4	2	9	7	8	6	10	1	12	13	14	15	16	17	18	19	50	21	22	23		24	25	56	

153rd and Wolf Road, 8' @ 3600 LF ORLAND PARK, ILLINOIS 10/14/2011

PROJECT NAME: LOCATION:

DATE: