

Hanson Professional Services Inc. 815 Commerce Drive, Suite 200 Oak Brook, IL 60523 (630) 990-3800 Fax: (630) 990-3801

www.hanson-inc.com

January 7, 2016

Mr. Robert Ells Superintendent of Engineering City of Lake Forest 800 N. Field Drive Lake Forest, IL 60045

RE: Telegraph Road Station, Pedestrian Underpass Estimate Report Transmitted via email

Dear Mr. Ells:

Hanson Professional Services Inc. (Hanson) subconsultant CCS International, Inc. has completed their work on the estimate for the plans developed by HDR Inc. Their report is attached.

Please make note of the Clarifications and Qualifications in the first two pages of their report. We have reviewed the estimate with CCS and feel that it is a fair representation of the work depicted on the drawings. However CCS is not a contractor and so their estimate is an opinion of the costs based on their knowledge of the marketplace.

If you have questions regarding the report, please don't hesitate to give me a call at (630) 368-2064.

Sincerely,

James P. Messmore, P.E.

Sr. Vice President Annual Services Inc.

Updated Design Development Estimate Telegraph Road Pedestrian Underpass



Submitted To: Hanson Professional Services, Inc. 815 Commerce Drive; Suite 200 Oak Brook, IL 60523

> Owner: City of Lake Forest

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1/4/2016

1815 South Meyers Road Suite 200 Oakbrook Terrace, IL 60181

630.678.0808 www.CCSdifference.com

WE TAKE ON YOUR VALUES.

CCS Project #15.138

Clarifications and Qualifications

00 - Notes Regarding This Estimate

- 1 This Design Development estimate is based on drawings and specifications, prepared by the office of HDR Engineering, Inc. dated 1/14/15 and received 11/23/15, together with discussions with their staff.
- 2 This estimate assumes a normal market condition.
- 3 This estimate assumes five or more qualified Contractors competitively bidding on this project.
- 4 This estimate assumes one contract awarded to one General Contractor.
- 5 Those cost estimates provided by the Architect and/or Consultants are identified in the body of the estimate.
- 6 After six months, this estimate should be updated for current market conditions.
- 7 Escalation is included assuming 3/01/16 as the start of construction and 11/01/16 as the substantial completion of construction.

THIS ESTIMATE EXCLUDES:

- a Professional fees, testing, moving expense, etc. for Owner's account,
- b Furnishings and equipment other than those shown in the body of the estimate,
- c Premium costs for work done in phases, out of sequence, out of hours,
- d Mechanical installation and work of associated contractors,
- e Electrical installation and work of associated contractors,
- f Hazardous material removal and abatement,
- g Construction Contingencies,
- h Building Permits,
- i Builder's Risk Insurance.

This estimate is based on information available at this time. The scope of this estimate should be reviewed to insure our interpretation of the drawings and other information is correct. This estimate should be updated as the design evolves and is completed.

This cost estimate represents our opinion of probable construction cost for this project. We have exercised due professional diligence in the preparation of this estimate. Since we have no control over final material selection, bidding strategies and market conditions, no guarantee is given or implied with this estimate.

Clarifications and Qualifications

08 - Mechanical

1 Site utilities (Storm sewer system) estimate has been prepared based on Pre-Final "Not For Construction" drawings dated 1-14-2015 provided by HDR

09 - Electrical

- 1 Electrical is based on DD Drawings and Specifications dated 1/14/15 prepared by AAA Engineering.
- 2 Site demo works are included per the demo drawings.



PROJECT RECAP & SUMMARY

Description	Unit Price Ext
A01 - Base Estimate **** 02 - Sitework **** 02200 - Site Preparation	\$71,337.43
A01 - Base Estimate **** 02 - Sitework **** 02220 - Site Demolition	\$107,571.11
A01 - Base Estimate **** 02 - Sitework **** 02225 - Selective Demolition	\$4,491.46
A01 - Base Estimate **** 02 - Sitework **** 02300 - Earthwork	\$454,004.00
A01 - Base Estimate **** 02 - Sitework **** 02400 - Tunneling, Boring, and Jacking	\$1,392,987.50
A01 - Base Estimate **** 02 - Sitework **** 02600 - Drainage and Containment	\$342,938.30
A01 - Base Estimate **** 02 - Sitework **** 02700 - Bases, Ballasts, Pavements, and Appurtenances	\$474,272.01
A01 - Base Estimate **** 02 - Sitework **** 02800 - Site Improvements and Amenities	\$125,564.21
A01 - Base Estimate **** 02 - Sitework **** 03300 - Cast-in-Place Concrete	\$6,313,573.14
A01 - Base Estimate **** 02 - Sitework **** 05100 - Structural Metal Framing	\$862,010.50
A01 - Base Estimate **** 02 - Sitework **** 05700 - Ornamental Metal	\$182,925.00
A01 - Base Estimate **** 02 - Sitework **** 16520 - Site Lighting	\$186,387.51
A01 - Base Estimate **** 02 - Sitework - SUBTOTAL	\$10,518,062.17
A01 - Base Estimate - SUBTOTAL	\$10,518,062.17
**** REPORT TOTAL ****	\$10,518,063.00
======== SUMMARY ====================================	
SUMMARY MARKUPS	
General Conditions OH & P *** 15.00% of Total	\$1,577,709.50
Design Contingency *** 10.00% of Total	\$1,209,577.25
Escalation *** 1.00% of Total	\$133,053.50
MARKUP TOTAL	\$2,920,340.00
ESTIMATE TOTAL	\$13,438,403.00

Date: 1/4/2016



Description	Quantity	U/M	Unit Price	Unit Price Ext
A01 - Base Estimate **** 02 - Sitework **** 02200 - Site Preparation				
Erosion Control - Plastic Silt Fence with Stakes - Install & Remove	300 LNFT		\$5.00	\$1,500.00
Temp Fence - Tree Pruning		ZEACH	\$100.00	\$700.00
Construction Signage		EACH	\$276.55	\$11,338.55
Temporary Sign Post, Rental - During Construction		BEACH	\$209.33	\$3,767.94
Type 3 Barricade		5 LNFT	\$50.19	\$803.04
PR Temp Easement) LNFT	\$24.10	\$7,687.90
Temp Fence (Special)	2,530) LNFT	\$18.00	\$45,540.00 \$71,337.43
A01 - Base Estimate **** 02 - Sitework **** 02220 - Site Demolition				
Site Demo - Concrete Curb & Gutter) LNFT	\$18.00	\$23,760.00
Site Demo - Pavement Removal		SQYD	\$12.33	\$39,410.79
Site Demo - HMA Surface Removal (up to 3" thick)		5 SQYD	\$7.53	\$21,498.15
Site Demo - Sidewalk Removal) SQYD	\$5.97	\$1,910.40
Site Demo - Remove Brick Paver		SQYD	\$5.75	\$4,780.17
Site Demo - Masonry Wall Removal) CUFT	\$5.77	\$461.60
Site Demo - Tactile Removal	600 SQFT		\$2.50	\$1,500.00
Site Demo - Median Removal) SQFT	\$10.00	\$1,200.00
Site Demo - Tree Removal		2 EACH	\$175.00	\$2,100.00
Site Demo - Remove Tree Grate		EACH	\$75.00	\$300.00
Remove Existing Irrigation System - Allowance	1 LSUM		\$3,000.00	\$3,000.00
Site Demo - Signage	2 EACH		\$75.00	\$150.00
Site Demo - Existing Timber Material - Allowance	1 LSUM \$7,500		\$7,500.00	\$7,500.00 \$107,571.11
A01 - Base Estimate **** 02 - Sitework **** 02225 - Selective Demolition				φ107,571.11
Storm Sewer Removal, 12" Dia.	118	B LNFT	\$14.67	\$1,731.06
Removal of Existing Manholes		2 EACH	\$487.50	\$975.00
Frames and Lids to be Adjusted (Special)	5	5 EACH	\$357.08	\$1,785.40
				\$4,491.46
A01 - Base Estimate **** 02 - Sitework **** 02300 - Earthwork	7.500	COFT	¢00.00	\$204.050.00
Temp Soil Retention System	/		\$29.98 \$40.00	\$224,850.00
Granular Backfill for Structure	679 CUYD		\$40.00	\$27,160.00
Structure Excavation (Special)	65 CUYD		\$48.00	\$3,120.00
Earth Excavation Special Waste Disposal & Hauling	2,600 CUYD		\$24.00 \$135.00	\$62,400.00 \$44,550.00
	330 CUYD			
Non - Special Waste Disposal & Hauling Topsoil Excavation and Placement	125 CUYD		\$60.00 \$18.00	\$7,500.00 \$684.00
Topsoil Excavation and Place - 24"	38 CUYD		\$18.00 \$15.00	\$684.00 \$22,425.00
Subbase Granular Material, Type B	1,495 SQYD 1,275 TON		\$15.00 \$25.00	\$22,425.00 \$31,875.00
Leveling Binder (Machine Method), N50		3 TON	\$25.00 \$80.00	\$31,875.00 \$29,440.00
	300		φου.00	φ 2 9,440.00

Date: 1/4/2016



Description	Quantity	U/M	Unit Price	Unit Price Ext
A01 - Base Estimate **** 02 - Sitework **** 02400 - Tunneling, Boring, and Jacking				\$454,004.00
Grout Stabilization - Allowance		1 LSUM	\$120,000.00	\$120,000.00
Jacking and Receiving Pits - Allowance		1 LSUM	\$60,000.00	\$60,000.00
Steel Tunnel Casing Pipe - Installed - Allowance		1 LSUM	\$1,210,000.00	\$1,210,000.00
Painted Steel Liner		0 SQFT	\$1.25	\$2,987.50
	2,00	o o q. i	¢1120	\$1,392,987.50
A01 - Base Estimate **** 02 - Sitework **** 02600 - Drainage and Containment				\$1,00 <u></u> ,001100
Storm Sewers, Class A, Type 5 12"	13	5 LNFT	\$77.00	\$10,395.00
Pipe Drains 6" (Special)	67	6 LNFT	\$56.05	\$37,889.80
Pipe Drains 8" (Special)		6 LNFT	\$85.15	\$57,561.40
Force Main, 8"	10	6 LNFT	\$95.00	\$10,070.00
Proposed Storm Sewer Connection To Existing Mh		3 EACH	\$1,234.00	\$3,702.00
Catch Basins, Type A, 4'-Diameter, Type 1 Frame, Closed Lid		1 EACH	\$2,750.00	\$2,750.00
Manholes, Type A, 4'-Diameter, Type 1 Frame, Closed Lid		3 EACH	\$4,100.00	\$12,300.00
Manholes, Type A, 4'-Diameter, Type 8 Grate		1 EACH	\$2,250.00	\$2,250.00
Trench Drain, 6" Wide	24	1 LNFT	\$70.00	\$16,870.00
Pumping Station (Wet Well/Valve Vault/ Duplex Submersible Pumps/Valves/Piping)		1 EACH	\$159,559.00	\$159,559.00
Pipe Underdrains, Fabric Lined Trench 4"	1,61	7 LNFT	\$18.30	\$29,591.10
				\$342,938.30
A01 - Base Estimate **** 02 - Sitework **** 02700 - Bases, Ballasts, Pavements, and Appurtenances				
Concrete Curb		1 LNFT	\$15.79	\$1,594.79
Concrete Curb & Gutter		6 LNFT	\$20.40	\$15,830.40
Asphalt Paving - Base Course - 4" Thick			\$32.11	\$142,850.26
Paver Brick Sidewalk	9,007 SQFT		\$19.86	\$178,879.02
Detectable Warning	1,248 SQFT		\$15.00	\$18,720.00
Concrete Sidewalk - 3000 PSI - WWF - Broom Finish - 5" Thick w/ Pump	13,19	7 SQFT	\$8.82	\$116,397.54
				\$474,272.01
A01 - Base Estimate **** 02 - Sitework **** 02800 - Site Improvements and Amenities		****		
**** SITE FURNITURE ****			* ~~ ~ ~~~~	* 4 400 00
Standard Bollard		4 EACH	\$295.00	\$1,180.00
Benches - Custom		5 EACH	\$929.20	\$4,646.00
Trash Receptacle - Custom		7 EACH	\$990.09	\$6,930.63
**** PARKING LOT **** Derking Stall Handisapped Strining Including Signage and Steel Dest			¢060 70	¢1 474 00
Parking Stall Handicapped Striping Including Signage and Steel Post		4 EACH	\$368.70	\$1,474.80 \$1,227.42
Pavement Striping with Layout in Parking Lots - Painted - 4" Wide	2,141 LNFT		\$0.62	\$1,327.42
Pavement Striping with Layout in Parking Lots - Painted - 6" Wide			\$0.80 \$9.52	\$474.40 \$5,118.00
Pavement Striping with Layout - No Parking with Cross Lines Pavement Striping with Layout - Standard Parking Stall - Painted	600 SQFT \$8.53 110 EACH \$18.15		\$8.53 \$18.15	\$5,118.00 \$1,996.50
Pavement Striping with Layout - Standard Parking Stall - Painted Pavement Striping with Layout - Handicap Parking Stall - Painted		4 EACH	\$18.15 \$42.78	۶۱,996.50 \$171.12
ravement Surping with Layout - Handicap Farking Stan - Fainteu			φ 42.78	φι/1.1Z

Date: 1/4/2016



Description	Quantity	U/M	Unit Price	Unit Price Ext
**** LANDSCAPE ****	*:	***		
Shrubs - Deciduous	430 EACH		\$86.37	\$37,139.10
Shrubs - Evergreen	181 E	181 EACH		\$13,238.34
Perennials	3,096 S	QFT	\$6.20	\$19,195.20
Ornamental Grass	940 E	ACH	\$16.43	\$15,444.20
Turf	550 S	QFT	\$1.19	\$654.50
Mulch, Method 4	11,468 S	QFT	\$0.50	\$5,734.00
Masonry Wall	80 S	QFT	\$18.00	\$1,440.00
Timber Retaining Wall	470 S	QFT	\$20.00	\$9,400.00
				\$125,564.21
A01 - Base Estimate **** 02 - Sitework **** 03300 - Cast-in-Place Concrete			• · · · · ·	
Porous Granular Embankment	1,359 C	-	\$40.00	\$54,360.00
Structure Excavation	9,525 C		\$25.00	\$238,125.00
Concrete Structure	1,274 CUYD		\$725.00	\$923,468.75
Form Liner Textured Surface	7,873 SQFT		\$18.00	\$141,705.36
Protective Coat	3,307 SQYD		\$1.10	\$3,637.59
Reinforcement Bars Epoxy Coated	152,324 L		\$1.78	\$271,135.94
Furnishing Steel Piles HP 12 x 53	455 LNFT		\$40.00	\$18,200.00
Driving Piles	455 LNFT		\$1.00	\$455.00
Test Pile Steel HP 12 x 53	3 EACH		\$5,000.00	\$15,000.00
Geocomposite Wall Drain	965 SQYD		\$22.00	\$21,230.00
Pipe Underdrains for Structure - 4"	1,539 LNFT		\$22.50	\$34,627.50
Sandblasting Concrete	1,111 SQFT		\$3.00	\$3,333.00
Anti - Graffiti Protection System	17,940 SQFT		\$2.50	\$44,850.00
Reinforcement Bars	1,183,680 LBS		\$1.25	\$1,479,600.00
Drilled Shaft in Soil	2,732 C		\$1,000.00	\$2,732,000.00
Mechanical Splicers	720 DAYS		\$120.00	\$86,400.00
Untreated Timber Lagging	2,327 SQFT		\$30.00	\$69,810.00
Concrete Stair, CIP	521 SQFT		\$35.00	\$18,235.00
Masonry Columns	15 EACH		\$800.00	\$12,000.00
Concrete Foundation, Type E - 30" Dia	480 LNFT		\$208.00 \$200.00	\$99,840.00
Archi Precast Conc. Archway Archi Precast Conc. Infill	124 SQFT		\$300.00 \$220.00	\$37,200.00 \$3,520.00
Archi Precast Conc. Infili Archi Precast Conc. Pilaster	16 CUYD 1 CUYD			
	-	UYD CUYD	\$220.00 \$210.00	\$220.00
Underpass Floor	22 0	עזט	\$210.00	\$4,620.00 \$6,313,573.14

Date: 1/4/2016



Description	Quantity	U/M	Unit Price	Unit Price Ext
A01 - Base Estimate **** 02 - Sitework **** 05100 - Structural Metal Framing				
Tierod Support	20,461		\$1.75	\$35,806.75
Tierods, 1 - 3/4" Dia w/ Burn Buckles	20,695		\$1.25	\$25,868.75
Permanent Steel Sheet Pilling		SQFT	\$100.00	\$774,200.00
Prefinished Curved Linear Metal Ceiling Panel		SQFT	\$35.00	\$19,810.00
Smooth Curved Metal Ceiling Band		SQFT	\$25.00	\$1,325.00
Sign Support - Allowance	1	LSUM	\$5,000.00	\$5,000.00 \$862,010.50
A01 - Base Estimate **** 02 - Sitework **** 05700 - Ornamental Metal				ψ002,010.30
Steel Ornamental Guardrail	1,141	LNFT	\$150.00	\$171,150.00
Stair Handrails	157	LNFT	\$75.00	\$11,775.00
				\$182,925.00
A01 - Base Estimate **** 02 - Sitework **** 16520 - Site Lighting				
Site Lighting - F1 - Candy Cane Style Alum Pole LED Luminaire	7	EACH	\$5,467.37	\$38,271.59
Site Lighting - F1A - Candy Cane Style Alum Pole LED Luminaire	3	EACH	\$5,467.37	\$16,402.11
Site Lighting - F3 - Step Light Recessed in Wall (Kim #LLF30) 26W CFL	6	6 EACH		\$7,317.78
Site Lighting - F4 - Step Light Recessed in Wall (Kim #LLF20) 26W CFL	6	6 EACH		\$7,317.78
Site Lighting - F5 - Step Light Recessed in Wall (Kim #LLF10) 26W CFL	17	EACH	\$1,123.01	\$19,091.17
Tunnel Lighting - F2 - Tunnel Recessed Can LED Light 8"dia Lensed Wallwash	5	5 EACH		\$6,357.00
Lighting Rough In Box	34	34 EACH		\$3,298.34
#2 - Remove (E) Parking Lot Light Pole, Turn Over to City	6	6 EACH		\$5,085.36
#3 - Remove (E) Platform Light Pole & Reinstall	10	10 EACH		\$13,464.10
#5 - Remove (E) HH, Receptacle & Cable Back to Nearest HH	9	9 EACH		\$7,857.00
#7 - Remove (E) VOM Speaker along with Light Pole	5	5 EACH		\$935.35
#15 - Protect (E) U/G FO Cable in Conduit during Construction		1 EACH		\$315.61
#10 - New HH - Allow 17" x 30" x 24"	3	3 EACH		\$3,243.72
#8 - Intercept (E) Ltg Conduit. Remove (E) Wire, Provide (N) Wire & Conduit	4	EACH	\$580.33	\$2,321.32
#16 - Intercept (E) VOM Speaker Cable in (E) HH, Extend (N) Wire/Conduit	2	EACH	\$514.15 \$642.69	\$1,028.30
#17 - Route Conduit from U/G, Up the Outside of Wall, to (E) Control Panel		1 EACH		\$642.69
#5 - Re-install (E) Metra VOM Speaker, Provide (N) Conduit/Wire to (E) VOM Speaker	9	EACH	\$447.97	\$4,031.73
#15 - Intercept (E) Platform Ltg Ckts in (E) HH & Extend (N) Conduit/Cable	1	EACH	\$705.04	\$705.04
#4 - Provide Expansion/Deflection Fitting	3	EACH	\$712.69	\$2,138.07
1" GRS with 4#8, 1#8G - Tunnel Ramp Access Lighting Circuit		LNFT	\$23.21 \$21.23	\$7,566.46
1" GRS with 3#8, 1#8G - Tunnel Lighting Circuit	106	106 LNFT		\$2,250.38
1" GRS in Trench with 3#8 + 1#8G - Site Lighting Circuit		947 LNFT		\$25,360.66
Tunnel Lighting Control Panel, 100A MLO 208/120V (in Existing Electrical Rm)		1 EACH		\$1,460.97
2" GRS with - 4#2, 1#2G - Tunnel Control Panel to (E) MDP		50 LNFT		\$2,722.50
Motor / Equipment Connection - 120/208V - 60A/3P - 10HP - N3R - Duplex Pump		EACH	\$536.26	\$1,072.52
2" GRS in Trench with 4#6+1#6 - Duplex Pump Feeders	138	LNFT	\$44.42	\$6,129.96
				\$186,387.51

Project: Updated Design Development Estimate Date: 1/4/2016



Description	Quantity	U/M	Unit Price	Unit Price Ext
A01 - Base Estimate **** 02 - Sitework - SUBTOTAL				\$10,518,062.17
A01 - Base Estimate - SUBTOTAL				\$10,518,062.17
**** REPORT TOTAL ****				\$10,518,063.00