

Project Name: Hopewell Road Park
 Owner: Upper Saucon Township
 Date: 17-Jan-17
 Revised: 15-Mar-17

Municipality: Upper Saucon Township

DRAFT



Probable Cost Opinion For Hopewell Road Park

Item	Description	Quantity	Unit Price	Units	Total
A	EROSION & SEDIMENT POLLUTION CONTROL				
1	Rock Construction Entrance & Wash Rack	1	\$ 2,000.00	LS	\$2,000.00
2	Staging Area	1,940	\$ 8.00	SY	\$15,520.00
3	18" Compost Filter Sock	4,355	\$ 6.00	LF	\$26,130.00
4	24" Compost Filter Sock	236	\$ 8.50	LF	\$2,006.00
5	32" Compost Filter Sock	2,270	\$ 15.00	LF	\$34,050.00
6	Compost Filter Sock Concrete Washout	1	\$ 1,000.00	EA	\$1,000.00
7	Inlet Protection - Filter Bag	12	\$ 150.00	EA	\$1,800.00
8	Inlet Protection - Stone & Block	12	\$ 250.00	EA	\$3,000.00
9	Rock Filter	10	\$ 500.00	EA	\$5,000.00
10	Erosion Control Matting (S75)	24,068	\$ 1.50	SY	\$36,102.00
11	Erosion Control Matting (C350)	155	\$ 8.00	SY	\$1,240.00
12	Stockpiles (Seeding & Stabilization)	1	\$ 15,000.00	LS	\$15,000.00
13	High Visibility Fence	960	\$ 3.00	LF	\$2,880.00
Erosion & Sediment Pollution Control Subtotal:					\$145,728.00
B	DEMOLITION				
1	Clearing & Grubbing	1	\$ 20,000.00	LS	\$20,000.00
2	Removal of Existing Utility Poles	2	\$ 1,500.00	EA	\$3,000.00
3	Removal of Existing Pavement	1	\$ 5,000.00	LS	\$5,000.00
4	Removal of Existing Lighting Fixtures	1	\$ 1,500.00	LS	\$1,500.00
5	Removal of Existing Storm Sewer Pipe	1	\$ 1,500.00	LS	\$1,500.00
Demolition Subtotal:					\$31,000.00
C	EARTHWORK				
1	Topsoil Strip & Stockpile (6")	27,200	\$ 3.50	CY	\$95,200.00
2	Bulk Grading	82,600	\$ 5.00	CY	\$413,000.00
3	Topsoil Replace	27,200	\$ 2.50	CY	\$68,000.00
4	Rock Removal	1	\$ -	LS	\$0.00
5	Sinkhole Remediation	1	\$ 25,000.00	LS	\$25,000.00
Earthwork Subtotal:					\$601,200.00
D	SITE UTILITIES				
Sanitary Sewer System					
1	Tie into Existing Manhole	1	\$ 500.00	EA	\$500.00
2	8" SDR 35 PVC Pipe	450	\$ 40.00	LF	\$18,000.00
3	Precast Concrete Manholes	2	\$ 3,000.00	EA	\$6,000.00
Water System					
4	Water line tap	1	\$ 800.00	LS	\$800.00
5	2" Dia. PVC Water line	2,300	\$ 25.00	LF	\$57,500.00
Electric Service					
6	Electric Line Conduit	2,550	\$ 10.00	LF	\$25,500.00
7	Site Lighting	3	\$ 3,100.00	EA	\$9,300.00
Site Utilities Subtotal:					\$117,600.00

E STORMWATER MANAGEMENT & STORM COLLECTION SYSTEM						
1	Bioretention/Detention Basin Excavation/Construction	14,545	\$	10.00	CY	\$145,450.00
2	Soil Amendments for Bioretention Basins (18")	7,205	\$	25.00	CY	\$180,125.00
3	Screenings & Liner for Detention Basins	4,133	\$	20.00	SY	\$82,660.00
4	Bioretention/Detention Basin Seeding	1	\$	15,000.00	LS	\$15,000.00
5	Outlet Control Structure	6	\$	5,000.00	EA	\$30,000.00
6	Anti-Seep Collars	12	\$	500.00	EA	\$6,000.00
7	Vegetated Swale / Conveyance Swale	4,575	\$	15.00	LF	\$68,625.00
8	Type C-Inlet	6	\$	3,000.00	EA	\$18,000.00
9	Type M-Inlet	15	\$	3,000.00	EA	\$45,000.00
10	Storm Manhole	5	\$	5,000.00	EA	\$25,000.00
11	Connection to Existing Manhole/Inlet	2	\$	1,500.00	EA	\$3,000.00
12	Headwall/Endwall	22	\$	1,500.00	EA	\$33,000.00
13	Riprap Apron	15	\$	500.00	EA	\$7,500.00
14	15" HDPE	2,569	\$	40.00	LF	\$102,760.00
15	18" HDPE	1,370	\$	50.00	LF	\$68,500.00
16	24" HDPE	226	\$	60.00	LF	\$13,560.00
17	24"x38" HERCP	218	\$	100.00	LF	\$21,800.00
Stormwater Management & Storm Collection System Subtotal:						\$865,980.00

F FULL ACCESS DRIVE & PARKING LOT C						
Access Drive						
1	8" Concrete Vertical Curb	2,390	\$	16.00	LF	\$38,240.00
2	1.5" ID-2A Wearing Course	4,475	\$	8.00	SY	\$35,800.00
3	2.5" Binder Course	4,475	\$	9.00	SY	\$40,275.00
4	6" 2A Modified Stone Base	4,475	\$	6.50	SY	\$29,087.50
Parking Lot C						
5	1.5" ID-2A Wearing Course	3,735	\$	8.00	SY	\$29,880.00
6	2.5" Binder Course	3,735	\$	9.00	SY	\$33,615.00
7	6" 2A Modified Stone Base	3,735	\$	6.50	SY	\$24,277.50
8	Asphalt Curb	454	\$	6.00	LF	\$2,724.00
9	Line Painting (Parking Lot) & Stop Bars	1	\$	1,500.00	LS	\$1,500.00
10	Concrete Bumper Blocks	103	\$	60.00	EA	\$6,180.00
11	Handicap Signage	8	\$	250.00	EA	\$2,000.00
12	Central Macadam Walk	240	\$	20.00	LF	\$4,800.00
13	8" Concrete Vertical Curb	146	\$	16.00	LF	\$2,336.00
Full Access Drive & Parking Lot C Subtotal:						\$250,715.00

G PARKING LOT B						
1	Asphalt Curb	160	\$	6.00	LF	\$960.00
2	1.5" ID-2A Wearing Course	1,780	\$	8.00	SY	\$14,240.00
3	2.5" Binder Course	1,780	\$	9.00	SY	\$16,020.00
4	6" 2A Modified Stone Base	1,780	\$	6.50	SY	\$11,570.00
5	Line Painting (Parking Lot) & Stop Bars	1	\$	800.00	LS	\$800.00
6	Concrete Bumper Blocks	46	\$	60.00	EA	\$2,760.00
7	Handicap Signage	5	\$	250.00	EA	\$1,250.00
Parking Lot B Subtotal:						\$47,600.00

H PARKING LOT A						
1	Asphalt Curb	630	\$	6.00	LF	\$3,780.00
2	1.5" ID-2A Wearing Course	4,860	\$	8.00	SY	\$38,880.00
3	2.5" Binder Course Wearing Course	4,860	\$	9.00	SY	\$43,740.00
4	6" 2A Modified Stone Base	4,860	\$	6.50	SY	\$31,590.00
5	Line Painting (Parking Lot) & Stop Bars	1	\$	1,700.00	LS	\$1,700.00
6	Concrete Bumper Blocks	127	\$	60.00	EA	\$7,620.00
7	Handicap Signage	6	\$	250.00	EA	\$1,500.00
Parking Lot A Subtotal:						\$128,810.00

I	LANDSCAPING & PLANTINGS					
1	Fine Grading and Seeding (Athletic Fields)	14	\$	8,150.00	AC	\$114,100.00
2	Fine Grading and Seeding (Regular Seeding)	10	\$	7,800.00	AC	\$78,000.00
3	Landscape Restoration Seeding	4.25	\$	3,200.00	AC	\$13,600.00
4	Deciduous Trees	84	\$	300.00	EA	\$25,200.00
5	Evergreen Trees	74	\$	150.00	EA	\$11,100.00
Landscaping & Plantings Subtotal:						\$242,000.00

J	MISC. PARK FEATURES					
1	10' Macadam Walking Trail (Paved)	6,980	\$	25.00	LF	\$174,500.00
2	Field 1 & Field 2 Fencing/Netting	535	\$	70.00	LF	\$37,450.00
3	Field 1 Kick Rebound Wall	30	\$	400.00	LF	\$12,000.00
4	Softball Field - Skinned Infield	1	\$	10,000.00	LS	\$10,000.00
5	Softball Field - Backstop & Spectator Fence	1	\$	24,200.00	LS	\$24,200.00
6	Softball Field - Dugouts	2	\$	9,120.00	EA	\$18,240.00
7	Softball Field - Outfield Fence	455	\$	13.00	LF	\$5,915.00
8	Basketball Courts/Rims/Line Painting	3	\$	22,000.00	EA	\$66,000.00
9	Basketball Bleachers	2	\$	5,500.00	EA	\$11,000.00
10	Volleyball Courts/Nets	2	\$	4,500.00	EA	\$9,000.00
11	Park Sign	1	\$	1,500.00	LS	\$1,500.00
Misc. Park Features Subtotal:						\$369,805.00

K	CENTRAL COMPLEX					
1	Restrooms	900	\$	130.00	SF	\$117,000.00
2	Storage Building	1,200	\$	100.00	SF	\$120,000.00
3	Pavilion	1	\$	76,000.00	LS	\$76,000.00
4	Sidewalk/Concrete Area	3,900	\$	5.00	SF	\$19,500.00
5	Service Drive	275	\$	20.00	SY	\$5,500.00
6	Flag Pole	1	\$	4,500.00	EA	\$4,500.00
7	Totlot Area	1	\$	120,000.00	EA	\$120,000.00
8	Amphitheater Area	1	\$	50,000.00	EA	\$50,000.00
Central Complex Subtotal:						\$512,500.00

SUBTOTAL ITEMS (A) THROUGH (K):	\$3,312,938.00
15% CONSTRUCTION CONTINGENCY	\$496,940.70
10% INSPECTION AND OVERSIGHT	\$331,293.80

TOTAL:	\$4,141,172.50
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BY: _____

DATE: March 15, 2017

Notes:

Hanover Engineering Associates, Inc. is not a construction contractor and therefore probable construction cost opinions are based upon our experience with construction. This requires Hanover Engineering Associates, Inc. to make a number of assumptions as actual conditions which will be encountered on the site; the specific decisions of other design professionals engaged; the means and methods of construction the contractor will employ; the cost and extent of labor, equipment, and materials the contractor will employ; contractor's techniques in determining prices and market conditions at the time, and other factors over which Hanover Engineering Associates, Inc. has no control. Given these assumptions which must be made, Hanover Engineering Associates, Inc. states that the above probable construction cost opinion to be a fair and reasonable estimate for construction costs.

DRAFT

**HOPEWELL ROAD PARK
UPPER SAUCON TOWNSHIP
PROBABLE COST OPINION OVERVIEW**

ITEM	DESCRIPTION	COST
A	Erosion & Sediment Pollution Control	\$145,728.00
B	Demolition	\$31,000.00
C	Earthwork	\$601,200.00
D	Site Utilities	\$117,600.00
E	Stormwater Management and Storm Collection System	\$865,980.00
F	Full Access Drive & Parking Lot C	\$250,715.00
G	Parking Lot B	\$47,600.00
H	Parking Lot A	\$128,810.00
I	Landscaping & Planting	\$242,000.00
J	Misc. Park Features	\$369,805.00
K	Central Complex	\$512,500.00
Subtotal Items (A) Through (I) - Minimum		\$2,430,633.00
15% Construction Contingency		\$364,594.95
10% Inspection and Oversight		\$243,063.30
TOTAL MINIMUM COST:		\$3,038,291.25
Subtotal All Items (A) Through (K)		\$3,312,938.00
15% Construction Contingency		\$496,940.70
10% Inspection and Oversight		\$331,293.80
TOTAL COST ALL ITEMS:		\$4,141,172.50



HanoverEngineering

252 Brodhead Road • Suite 100 • Bethlehem, PA 18017-8944
Phone: 610.691.5644 • Fax: 610.691.6968 • HanoverEng.com

BIDDING/CONSTRUCTION TIMELINE

BIDDING:

- Township Authorization to Bid: March 27, 2017
- Finalize Bid Documents (4 weeks): March 28 – April 23, 2017
- Advertise Bidding: April 24, 2017
- Bidding Period (4 weeks): April 24 – May 23, 2017
- Bids Due: May 23, 2017
- Bid Review/Recommendation (2 weeks): May 24 – June 9, 2017
- Bid Acceptance: June 12, 2017

CONSTRUCTION:

- Finalize Contracts/Insurances (4 weeks):
- Pre-Construction Meeting: Mid July, 2017
- Construction Start (*Subject to NPDES Permit Receipt): August 1, 2017
- Erosion Control (4 weeks):
- Earthwork (10 weeks):
- Stormwater Features (8 weeks):
- Curbing/Paving (4 weeks):
- Seeding (4 weeks):
- Park Features (8 weeks):
- Construction Complete (38 weeks/9.5 months): June 1, 2018

BIDDING/CONSTRUCTION TIMELINE

BIDDING TIMELINE:

3/27/2017	3/28/17-4/23/17	4/24/2017	4/24/17-5/23/17	5/24/17-6/9/17	6/12/2017
Township Authorization to Bid	Finalize Bidding Documents (4 weeks)	Bid Advertisement	Bidding Period (4 weeks)	Bid Review and Recommendation (2 weeks)	Bid Acceptance

CONSTRUCTION TIMELINE:

	Mid July, 2017	Tentatively 8/1/17		6/1/2018
Finalize Contracts/Insurances (4 weeks)	Pre- Construction Meeting	Construction Start	Erosion Control (4 weeks), Earthwork (10 weeks), Stormwater Features (8 weeks), Curbing/Paving (4 weeks), Seeding (4 weeks), Park Features (8 weeks)	Construction Complete