

**ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST**  
**BLOCK 5202, LOTS 21 & 22**  
**EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NJ**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
<b>A. CLEAR, GRUB, EARTHWORK AND DEMOLITION</b>					
1	Clear and grub wooded area	8,860	AC	\$4,100.00	\$36,326.00
2	Remove Concrete Curb	78	LF	\$4.00	\$312.00
<b>SUBTOTAL A:</b>					<b>\$36,638.00</b>
<b>B. DRAINAGE</b>					
1	Connect to Existing Storm Inlet	1	EA	\$500.00	\$500.00
2	Type B Precast Concrete Inlet, Frame and Grate	6	EA	\$1,750.00	\$10,500.00
3	Type C Precast Concrete Inlet, Frame and Grate	4	EA	\$2,300.00	\$9,200.00
4	Type 'Double' B Precast Concrete Inlet, Frame and Grate	3	EA	\$2,800.00	\$8,400.00
5	Precast Concrete Storm Manhole	7	EA	\$1,950.00	\$13,650.00
6	Type E Precast Concrete Outlet Structure, Trash Rack, Frame and Grate	1	EA	\$3,525.00	\$3,525.00
7	15" RCP, Class III	353	LF	\$23.50	\$8,295.50
8	15" RCP, Class IV	58	LF	\$26.00	\$1,508.00
9	18" RCP, Class III	147	LF	\$27.50	\$4,042.50
10	24" RCP, Class III	340	LF	\$33.25	\$11,305.00
11	30" RCP, Class III	281	LF	\$52.00	\$14,612.00
12	36" RCP, Class III	621	LF	\$72.00	\$44,712.00
13	15" Concrete Flared End Section	1	EA	\$48.25	\$48.25
14	24" Concrete Flared End Section	2	EA	\$53.00	\$106.00
15	Basin Excavation	2,107	CY	\$3.00	\$6,321.00
16	6" thick K5 Sand	582	CY	\$15.00	\$8,730.00
17	Basin Clay Core	267	CY	\$5.00	\$1,335.00
<b>SUBTOTAL B:</b>					<b>\$146,790.25</b>
<b>C. CURBING &amp; GUTTER</b>					
1	Belgian Block Curb	3,360	LF	\$11.25	\$37,800.00
2	Belgian Block Curb, Battered	648	LF	\$15.00	\$9,720.00
<b>SUBTOTAL C:</b>					<b>\$47,520.00</b>
<b>D. PAVING</b>					
1	2" Hot Mix Asphalt Surface Course Mix I-5, Roadway	7,663	SY	\$9.50	\$72,798.50
2	2" Hot Mix Asphalt Surface Course Mix I-5, Driveway	1,368	SY	\$9.50	\$12,996.00
3	2" Hot Mix Asphalt Base Course Mix I-2	7,663	SY	\$12.75	\$97,703.25
4	6" Dense Graded Aggregate, Roadway	7,663	SY	\$6.00	\$45,978.00
5	6" Dense Graded Aggregate, Driveway	1,368	SY	\$6.00	\$8,208.00
6	Roadway Prep Work	965	SY	\$1.50	\$1,447.50
7	Turf Paver	264	SF	\$12.50	\$3,300.00
<b>SUBTOTAL D:</b>					<b>\$242,431.25</b>
<b>E. CONCRETE</b>					
1	4" Concrete Walk	12,127	SF	\$4.00	\$48,508.00
2	6" Concrete Apron w/ WWF	3,264	SF	\$6.50	\$21,216.00
<b>SUBTOTAL E:</b>					<b>\$69,724.00</b>
<b>F. LIGHTING</b>					
1	150 W HPS Cobra, 25' aluminum pole	4	EA	\$1,850.00	\$7,400.00
<b>SUBTOTAL F:</b>					<b>\$7,400.00</b>
<b>G. LANDSCAPING</b>					
1	Street Tree	94	EA	\$200.00	\$18,800.00
2	Ornamental Tree	12	EA	\$175.00	\$2,100.00
3	Evergreen Tree	68	EA	\$75.00	\$5,100.00
4	Shrub	220	EA	\$13.00	\$2,860.00
5	Topsoil, Fertilizer & Seed	25,122	SY	\$2.50	\$62,805.00
<b>SUBTOTAL G:</b>					<b>\$91,665.00</b>

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ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
<b>H. MISCELLANEOUS</b>					
1	Traffic Sign on Single Post	2	EA	\$140.00	\$280.00
2	Street Name Sign & Traffic Sign on Single Post	2	EA	\$175.00	\$350.00
3	8" Crosswalk Striping	178	LF	\$3.00	\$534.00
4	Detectable Warning Surface	4	EA	\$50.00	\$200.00
5	6' Vinyl Coated Chainlink Fence	1,451	LF	\$13.00	\$18,863.00
6	6' Vinyl Coated Chainlink Fence Gate	12	LF	\$83.00	\$996.00
7	Property Corners	18	LOT	\$200.00	\$3,600.00
8	As-Builts	1	LS	\$6,000.00	\$6,000.00
<b>SUBTOTAL H:</b>					<b>\$30,823.00</b>
<b>I. SOIL EROSION</b>					
1	Stabilized Construction Entrance	1	EA	\$1,000.00	\$1,000.00
2	Standard Silt Fence	1,678	LF	\$1.40	\$2,349.20
3	Tree Protection Fence	4,524	LF	\$1.00	\$4,524.00
4	Tree Preservation Fence	86	LF	\$3.90	\$335.40
5	Inlet Protection	12	EA	\$200.00	\$2,400.00
6	Conduit Outlet Protection & Rip Rap	8.8	CY	\$51.00	\$448.80
7	Recondition Sediment Basin Area	1	LS	\$2,000.00	\$2,000.00
8	Individual Lot Erosion Control	18	EA	\$500.00	\$9,000.00
<b>SUBTOTAL I:</b>					<b>\$22,057.40</b>
<b>J. CHELSEA AVENUE (per Mott Associates Estimate)</b>					
1	Paving	1	LS	\$85,700.00	\$85,700.00
2	Curb, Sidewalk, Drainage	1	LS	\$73,150.00	\$73,150.00
<b>SUBTOTAL J:</b>					<b>\$158,850.00</b>

<b>SUBTOTAL :</b>	<b>\$853,898.90</b>
<b>10% Contingency :</b>	<b>\$85,389.89</b>
<b>TOTAL :</b>	<b>\$939,288.79</b>

- Notes: 1. This Opinion of Probable Construction Cost is intended for use in bonding purposes only.  
2. Unforeseen subsurface conditions are not included.  
3. Actual cost estimate may be subject to change based on review agencies having jurisdiction over the project.  
4. This opinion of probable cost does not include escalation of construction costs over the duration of the project.  
5. This opinion of probable cost is prepared utilizing Site Plans by Marathon last revised 03/25/2009.  
6. Chelsea Avenue Improvements as taken from Construction Cost Estimate for Chelsea Avenue Street Reconstruction as prepared by Mott & Associates dated May 4, 2009.

Respectfully Submitted,  
Marathon Engineering & Environmental Services, Inc.

Jason T. Sciallo, P.E.  
Professional Engineer  
NJ License No. 24GE04586000



# Marathon

ENGINEERING & ENVIRONMENTAL SERVICES, INC.

February 9, 2012

DRO 001.02

## Engineer's Estimate of Quantities and Probable Costs for Sanitary Sewer System at Block 5202, Lots 21 & 22, Township of Egg Harbor, Atlantic County, New Jersey

PREPARED FOR: DROZDOV, SPORKIN & LISTER, LLC

<u>Item #</u>	<u>Item Description</u>	<u>Quantity</u>		<u>Unit Price</u>		<u>Total</u>
<b>Sanitary Sewer System</b>						
1	General Work	1	LS @	\$5,000.00	/LS =	\$5,000.00
2	Manhole	8	UN @	\$1,750.00	/UN =	\$14,000.00
3	8" PVC Pipe, SDR 35	2,094	LF @	\$30.00	/LF =	\$62,820.00
4	6" PVC Sewer Lateral, SDR 35	19	UN @	\$500.00	/UN =	\$9,500.00

**Total Construction Cost = \$91,320.00**

**Jason T. Sciuolo, P.E.**  
Professional Engineer  
New Jersey License No. 24GE04586000

- Notes:
1. This Opinion of Probable Construction Cost is intended for use in bonding purposes only.
  2. Unforeseen subsurface conditions are not included.  
Actual cost estimate may be subject to change based on review agencies having jurisdiction over the project.
  3. project.  
This opinion of probable cost does not include escalation of construction costs over the duration of the project.
  4. project.  
This opinion of probable cost is prepared utilizing Development Plans by Marathon last issued 3/25/09.

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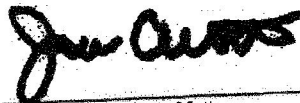
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**MOTT ASSOCIATES, LLC**  
 CONSULTING ENGINEERS & PLANNERS

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 Ocean City, NJ 08226  
 (609) 399-6767 Phone  
 e-mail: jamott@comcast.net

REPLY TO:  Egg Harbor Township Office  
 Ocean City Office

<b>PROJECT:</b> Drozdov, Sporkin and Lister Subdivision Chelsea Avenue Street Reconstruction Egg Harbor Township, NJ		<b>CONSTRUCTION COST ESTIMATE</b>			
<b>SUBJECT:</b> Cost Estimate for Offsite Roadway Improvement to Chelsea Avenue		<b>SHEET NO:</b> 1 of 1			
<b>COMPUTED:</b> RAW	<b>DATE:</b> March 13, 2012	<b>JOB NO:</b> 2078.4			
<b>CHECKED:</b> RAW	<b>DATE:</b> March 13, 2012				
<b>Developer Fair Share</b>					
ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE	
1	Clearing Site	1	LS	\$7,150.00	\$7,150.00
2	Reconstructed Soil Aggregate Base Course, 6" Thick	2,800	SY	\$7.00	\$19,600.00
3	Bituminous Concrete Base Course, Mix 19M64, 3" Thick	500	TON	\$75.00	\$37,500.00
4	Bituminous Concrete Surface, Mix 9.5M64, 1.5" Thick	260	TON	\$75.00	\$19,500.00
5	Bituminous Concrete Driveway, Mix 1-3, 2" Thick & Variable	50	TON	\$125.00	\$6,250.00
			<b>TOTAL</b>	<b>\$90,000.00</b>	
THIS COST ESTIMATE DOES NOT INCLUDE ENGINEERING FEES, CONSULTING FEES, LEGAL FEES, CONSTRUCTION MANAGEMENT SERVICES, EASEMENT ACQUISITIONS, PERMIT FEES, CONTINGENCIES AND ANY COSTS DUE TO UNFORESEEN SITE CONDITIONS					
<b>Municipality Fair Share</b>					
ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE	
6	Concrete Curb, 6"x8"x18" (both sides)	1800	LF	\$20.00	\$36,000.00
7	Concrete Sidewalk, 4" Thick (one side)	400	SY	\$20.00	\$8,000.00
8	Inlet, Type B, Modified	5	UNIT	\$2,500.00	\$12,500.00
9	24" PERF. HDPE w/ Stone	400	LF	\$75.00	\$30,000.00
10	15" Reinforced Concrete Pipe, Class V	400	LF	\$85.00	\$33,900.00
11	Topsoil, 4" Thick	200	SY	\$5.00	\$1,000.00
12	Fertilizer & Seed	200	SY	\$1.00	\$200.00
			<b>TOTAL</b>	<b>\$91,000.00</b>	
THIS COST ESTIMATE DOES NOT INCLUDE ENGINEERING FEES, CONSULTING FEES, LEGAL FEES, CONSTRUCTION MANAGEMENT SERVICES, EASEMENT ACQUISITIONS, PERMIT FEES, CONTINGENCIES AND ANY COSTS DUE TO UNFORESEEN SITE CONDITIONS					



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REPLY TO:  Egg Harbor Township Office  
 Ocean City Office

**Schedule A**

Date Prepared: 04/12/12

Worksheet for Determining Developer's Maintenance Bond for Stormwater Basins  
 [§94-44F(8)(b)] Schedule A

Name of Development:	Drozdvov, Sporkin and Lister
Basin Block / Lot Number(s):	Subdivision 5202 / 21.18
Maintenance Bond Duration (years)	20.00
Area of Basin(s)(Ac.):	3.72
Area of Basin Bottom(s)(Ac.):	1.16

**1 Mowing**

A. Hourly rate for labor & equipment	\$50.00
B. # of hours (1 hour = 1 acre) per mowing	2.56
C. # of hours for mobilization & equipment maintenance	2.56
D. B + C	5.12
E. Cost per mowing (A x D)	\$256.00
F. # of mowings per year (10)	10.00
G. Annual mowing cost (E x F)	\$2,560.00
H. Materials	\$500.00
I. Total (G + H)	\$3,060.00

**2 Landscape Maintenance**

A. Hourly rate for labor & equipment	\$50.00
B. # of hours per year	30.00
C. Annual landscape maintenance cost (A x B)	\$1,500.00
D. Total cost of original landscaping	\$26,900.00
E. Replacement factor (2% per year)	0.02
F. Annual replacement cost (D x E)	\$538.00
G. Total (C + F)	\$2,038.00

**3 Annual Inspection by Twp. Engineer**

A. Hourly rate for labor	\$100.00
B. # of hours per inspection	4.00
C. Total (A x B)	\$400.00



**4 Scarify and De-silt Basin (Every 5 years)**

A. Hourly rate for labor & equipment	\$50.00
B. # of hours (40 hours / acre)	46.40
C. Labor & equipment cost (A x B)	\$2,320.00
D. Cost of disposal per cubic yard	\$10.00
E. # of cubic yards (6" Deep remove/replace)	935.73
F. Disposal cost (D x E)	\$9,357.33
G. Cost per occurrence (C + F)	\$11,677.33
H. Times Scarified/De-Silted Basin per Bond Years*	4
I. Total (G x H)	\$46,709.33
J. Total for First Year (I / Bond Years)	\$2,335.47

**5 Total First Year Cost**

A. Mowing (1.I)	\$3,060.00
B. Landscape Maintenance (2.G)	\$2,038.00
C. Annual Inspection (3.C)	\$400.00
D. Scarify & De-silt (4.J)	\$2,335.47
E. Total (A + B + C + D) per year	\$7,833.47

Maintenance Bond for 20 Years \$156,669.33

Lump Sum Fee in 2012 Dollars \$117,502.00

\* If 1-5 yrs. = 1; if 6 - 10 yrs. = 2; if 11 - 15 yrs. = 3; 16 - 20 yrs. = 4

Prepared by : RAW  
Checked by : RAW