

**9. PLANNING BOARD: PERFORMANCE SECURITY OF
LANDS OF HAMMOND**


MAY 21 2012

9

TOWN OF NEWBURGH
TOWN ENGINEER
1496 Rte. 300
Newburgh, NY 12550
(845) 564-7814

MEMORANDUM

TO: Wayne Booth, Supervisor & Town Board

FROM: James W. Osborne, Town Engineer 

DATE: 21 May 2012

RE: PB \ LANDS OF HAMMOND

Attached for the Town Board's review and approval is a cost estimate for the construction of a proposed town road, related stormwater collection system and street trees. The proposed project is a 13 lot subdivision off Cronk Road with a road measuring approximately 2400 linear feet in length. The cost estimate of \$886,050 was prepared by Zen Design Consultants. Based on my review, I recommend that the Town Board approve this cost estimate. In addition, a public improvement inspection fee of \$33,002 is required (excludes the cost of the street trees) and an escrow deposit of \$2000 for soil and erosion control inspections and \$3,000 for landscaping inspections must be submitted separately.

The developer has completed some of the work on the Town road including clearing and grading the R.O.W., installation of subbase material and paving approximately 900 feet with dense binder base course. However, outside of a visual inspection, the work has not been satisfactorily inspected, nor has any certification of the work been received. Therefore, any recommendation for a reduction in the amount of the cost estimate will be at a later date.

As the above requires Town Board action, I am requesting that this item be placed on the next available agenda. If you have any questions or comments, I am available to discuss them with you.

Cc: M. Taylor, Attorney
D. Benedict, Highway Superintendent
J. Ewasutyn, P. Hines, B. Cocks – TON Planning Board

Project Name: Lands of Hammond - 'Madre de Cristo'
 Planning Board No.: 2007-27 2340LF-Town Road

Municipality: Newburgh
 Date: 18-Apr-12

PUBLIC IMPROVEMENT UNIT PRICES
(Updated August 2007)

Description	Unit	Unit Cost	Total Quantity	Total Cost	Completed Quantity	Completed Cost	Remaining Cost
<u>Roadway and Parking Lot</u>							
Clear and Grade ROW	SF	\$ 0.80	120000	\$ 96,000.00	0	\$ -	\$ 96,000.00
Cut and Chip Trees	AC	\$ 6,500.00	2.75	\$ 17,875.00	0	\$ -	\$ 17,875.00
Stump removal and disposal	AC	\$ 4,500.00	2.75	\$ 12,375.00	0	\$ -	\$ 12,375.00
Erosion Control	AC	\$ 3,200.00	2.75	\$ 8,800.00	0	\$ -	\$ 8,800.00
<u>Roadway Subbase</u>							
Roadway Subbase (8" Course)	CY	\$ 42.00	-	\$ -	\$ -	\$ -	\$ -
Roadway Subbase (12" Course)	SY	\$ 9.50	-	\$ -	\$ -	\$ -	\$ -
Roadway Subbase (15" Course)	SY	\$ 14.00	6240	\$ 87,360.00	0	\$ -	\$ 87,360.00
Roadway Subbase (15" Course)	SY	\$ 18.00	-	\$ -	\$ -	\$ -	\$ -
<u>Asphalt Pavement</u>							
Asphalt Pavement (1.5" top)	TN	\$ 108.00	1152	\$ 124,416.00	0	\$ -	\$ 124,416.00
Asphalt Pavement (2" top)	SY	\$ 9.00	-	\$ -	\$ -	\$ -	\$ -
Asphalt Pavement (3" course)	SY	\$ 12.00	-	\$ -	\$ -	\$ -	\$ -
Asphalt Pavement (3.5" course)	SY	\$ 18.00	-	\$ -	\$ -	\$ -	\$ -
Asphalt Pavement (4" course)	SY	\$ 20.00	-	\$ -	\$ -	\$ -	\$ -
Asphalt Pavement (4" course)	SY	\$ 22.00	-	\$ -	\$ -	\$ -	\$ -
Asphalt Pavement (5" course)	SY	\$ 24.00	-	\$ -	\$ -	\$ -	\$ -
<u>Tack Coat</u>							
Tack Coat	SY	\$ 0.60	-	\$ -	\$ -	\$ -	\$ -
<u>Double Surface Treatment</u>							
Double Surface Treatment	SY	\$ 7.50	-	\$ -	\$ -	\$ -	\$ -
<u>Roadway ROW Topsoil (6" & Seeding</u>							
Concrete Monuments	EA	\$ 145.00	33	\$ 4,785.00	0	\$ -	\$ 4,785.00
Roadway As-Builts (50' Wide)	LF	\$ 1.10	2340	\$ 2,574.00	0	\$ -	\$ 2,574.00
Street Signs (Traffic Control)	EA	\$ 225.00	1	\$ 225.00	0	\$ -	\$ 225.00
Street ID	EA	\$ 250.00	1	\$ 250.00	0	\$ -	\$ 250.00
<u>Concrete Curbing</u>							
Concrete Curbing	LF	\$ 30.00	4700	\$ 141,000.00	50.00	\$ -	\$ 141,000.00
<u>Concrete Sidewalk</u>							
Concrete Sidewalk	SY	\$ 77.00	-	\$ -	\$ -	\$ -	\$ -
<u>Concrete Sidewalk (4' Wide)</u>							
Concrete Sidewalk (4' Wide)	LF	\$ 34.00	-	\$ -	\$ -	\$ -	\$ -

\$ 587,869

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Concrete Sidewalk (5' Wide)	LF	\$ 43.00					
Street Trees (2.5" Cal, w/ frame and grate)	EA	\$ 1,100.00					
Street Trees (2.5" Cal)	EA	\$ 650.00	94	61,100.00	0		61,100.00
Street Lights (std. luminair, u/g feed)	EA	\$ 7,500.00					
Guide Rail (W-Beam)	LF	\$ 45.00					
Guide Rail (Box Beam)	LF	\$ 70.00					
End Section (W-Beam)	EA	\$ 900.00					
End Section (Box Beam, Type 1, 9' taper)	EA	\$ 600.00					
End Section (Box Beam, Type 2, 18' taper)	EA	\$ 1,200.00					
Modular Block Retaining Wall (upto 6' High)	SF	\$ 33.00					
Modular Block Retaining Wall (over 6' High)	SF	\$ 38.00					
Concrete Retaining Wall (upto 6' High)	CY	\$ 800.00					
Concrete Retaining Wall (over 6' High)	CY	\$					
<u>Drainage</u>							
Catch Basin	EA	\$ 3,500.00	20	70,000.00	0		70,000.00
Stormwater Manhole	EA	\$ 3,600.00					
Connection to Existing Catch Basin	EA	\$ 1,000.00					
Stormwater Pipe (CMP - 15" coated)	LF	\$ 65.00					
Stormwater Pipe (CMP - 18" coated)	LF	\$ 74.00					
Stormwater Pipe (CMP - 24" coated)	LF	\$ 90.00					
Stormwater Pipe (CMP - 30" coated)	LF	\$ 127.00					
Stormwater Pipe (CMP - 36" coated)	LF	\$ 150.00					
Stormwater Pipe (CMP - 48" coated)	LF	\$ 190.00					
End Section (CMP - coated)	EA	\$ 600.00					
Stormwater Pipe (HDPE - 15")	LF	\$ 55.00	300	16,500.00	0		16,500.00
Stormwater Pipe (HDPE - 18")	LF	\$ 68.00	1450	98,600.00	0		98,600.00
Stormwater Pipe (HDPE - 24")	LF	\$ 75.00	400	30,000.00	0		30,000.00
Stormwater Pipe (HDPE - 30")	LF	\$ 90.00	202	18,180.00	0		18,180.00
Stormwater Pipe (HDPE - 36")	LF	\$ 105.00					
Stormwater Pipe (HDPE - 48")	LF	\$ 140.00					

#294,380

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			Quantity	Total Cost			
End Section (HDPE)	EA	\$ 600.00	2	\$ 1,200.00	0	\$ -	\$ 1,200.00
Stormwater Pipe (RCP - 15")	LF	\$ 60.00					
Stormwater Pipe (RCP - 18")	LF	\$ 68.00					
Stormwater Pipe (RCP - 24")	LF	\$ 75.00					
Stormwater Pipe (RCP - 30")	LF	\$ 120.00					
Stormwater Pipe (RCP - 36")	LF	\$ 150.00					
Stormwater Pipe (RCP - 48")	LF	\$ 215.00					
End Section (RCP)	EA	\$ 750.00					
Concrete Headwall	EA	\$ 6,100.00					
Rip Rap Drainage Channel	LF	\$ 65.00	40	\$ 2,600.00	0	\$ -	\$ 2,600.00
Non-lined Drainage Channel	LF	\$ 12.00					
Perforated Pipe/Stone Underdrain	LF	\$ 26.00					
Concrete Box Culvert (6'x4') w/wingwalls	LF	\$ 2,300.00					
Concrete Box Culvert (3'x3') w/wingwalls	LF	\$ 1,800.00					
Water							
Watermain (DI - 8")	LF	\$ 75.00					
Gate Valve (8")	EA	\$ 1,500.00					
Tapping Sleeve and Valve (8")	EA	\$ 4,500.00					
Watermain (DI - 12")	LF	\$ 85.00					
Gate Valve (12")	EA	\$ 2,600.00					
Tapping Sleeve and Valve (12")	EA	\$ 5,600.00					
Hydrant Assembly	EA	\$ 3,300.00					
House service (w/out licensed plumber)	EA	\$ 1,400.00					
Air relief Valve & Vault	EA	\$ 5,000.00					
Pressure Reducing Valve & Vault	EA	\$ 10,500.00					
Watermain Offset (8")	EA	\$ 5,000.00					
Line Stop and Gate Valve installation (8")	EA	\$ 9,000.00					
Insertion Valve (8")	EA	\$ 11,000.00					

\$ 3,800

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Description	Unit	Unit Cost	Total Quantity	Total Cost	Completed		
					Quantity	Completed Cost	Remaining Cost
Sewer							
Sewer Main (PVC - 8")	LF	\$ 68.00		-	\$ -	-	\$ -
Sewer Main (PVC - 12")	LF	\$ 84.00		-	\$ -	-	\$ -
Sewer PVC Force Main	LF	\$ 68.00		-	\$ -	-	\$ -
Sewer Manholes	EA	\$ 4,000.00		-	\$ -	-	\$ -
Doghouse sewer manholes	EA	\$ 6,000.00		-	\$ -	-	\$ -
House service (w/out licensed plumber)	EA	\$ 1,300.00		-	\$ -	-	\$ -
Other							
Total:				\$ 886,049.00	\$ -	-	\$ 886,049.00