

# Ocean Point Homes

## Sample

**Prepared: 5/25/2007**

**Final Version 1.0**

This takeoff has been prepared by *Walsh Estimating Service*, a division of Maracorp International:

Although we have been careful to assure that all items are correct, we make no guarantee beyond the cost of our work. The contractor has the final responsibility for completeness and accuracy in the preparation of his bid.

By acceptance of this takeoff, the purchaser agrees to the following statement:

*"I do hereby release and hold harmless Walsh Estimating Service, Maracorp International, Ed Walsh, and his employees from any and all errors and omissions beyond the invoiced value of services rendered."*

**Prepared For:**  
**Ocean Excavating**



	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>I.</b>	<b>EROSION AND SEDIMENT CONTROL</b>				
	Construction Entrance Pad, 6" thick	CY	30		
	Filter Fabric for construction entrance pad - <i>Assume Required</i>	SY	208		
	Inlet Filters, (2" -3" aggregate over wire mesh)	EA	40		
	Silt Fence, 24" high	LF	9,003		
	Temporary seeding as required	LS	1		
	↑	↑			
Subtotal					
<b>II.</b>	<b>SITE CLEARING AND DEMOLITION</b>				
	<b>NOTE:</b> We did not include any demolition of existing pavement, building or other existing features except clearing.				
	Clear, Grub and Dispose Trees and Stumps - Dense Vegetation areas	AC	13.91		
	Clear, Grub and Dispose Trees and Stumps - Brush and Scattered Tree areas	AC	3.05		
	Clear, Grub and Dispose Individual Trees and Stumps, not within mass clearing area - size unknown	EA	100		
	↑	↑			
Subtotal					
<b>III.</b>	<b>EXCAVATION (All volumes are "Raw" -- no assumptions for swell or compaction)</b>				
	DISTURBANCE AREA	SF	1,346,643		
	Disturbance Area, Acres	Acre	30.91		
	↑	↑			
	Strip Topsoil Areas, 12" thick	CY	49,875		
	*****				
	<b>SUBGRADE ASSUMPTIONS:</b>				
	Basin Area	0.50'			
	Building Areas	0.67'			
	Landscape Areas	0.50'			
	Pavement Areas	0.75'			
	*****				

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	<b>UNCLASSIFIED CUT:</b>				
	Basin Area	CY	11,794		
	Building Areas	CY	1,806		
	Landscape Areas	CY	6,223		
	Pavement Areas	CY	5,999		
	<b>TOTAL CUT =</b>	<b>CY</b>	<b>25,822</b>		
	<b>UNCLASSIFIED FILL:</b>				
	Basin Area	CY	2,110		
	Building Areas	CY	21,739		
	Landscape Areas	CY	31,083		
	Pavement Areas	CY	8,177		
	<b>TOTAL FILL =</b>	<b>CY</b>	<b>63,109</b>		
	*****				
	<b>UNCLASSIFIED EXCESS (BORROW) =</b>	<b>CY</b>	<b>(37,287)</b>		
	*****				
	<b>OVERALL UNCLASSIFIED SUMMARY:</b>				
	<i>Unclassified Excess (Borrow)</i>	CY	(37,287)		
	<i>Pipe Trench Excess</i>	CY	6,220		
	<i>Asphalt and paver box out excess</i>	CY	808		
	<b>TOTAL EXCESS (BORROW) =</b>	<b>CY</b>	<b>(30,259)</b>		
	↑	↑			
	↑	↑			
	<b>TOPSOIL SUMMARY:</b>				
	Strip Volume	CY	49,875		
	Required Volume, 6" thick	CY	14,051		
	<b>EXCESS (BORROW) TOPSOIL =</b>	<b>CY</b>	<b>35,824</b>		
	↑	↑			
Subtotal	\$890,798.50				
<b>III-1.</b>	<b>ROCK BLASTING (AND REMOVAL) - If Required (Unit Price)</b>				
	Mass Rock Blasting	CY			
	Trench Rock Blasting (0'-6' deep)	LF			
	Trench Rock Blasting (6'-9' deep)	LF			
	Trench Rock Blasting (9'-12' deep)	LF			
	↑	↑			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>IV.</b>	<b>ROUGH GRADING AREAS</b>				
<b>Important</b>	<b>NOTE:</b> Pavement and Landscape areas from Agtek printout are not to be used for exact quantities (e.g. curbed islands and sidewalks are usually included within pavement/landscape surface areas)				
	<b>Grading Areas</b>				
	Basin Area	SY	16,119		
	Building Areas	SY	31,158		
	Landscape Areas	SY	76,504		
	Pavement Areas	SY	25,846		
	<b>Total =</b>	<b>SY</b>	<b>149,627</b>		
		<i>check</i> SY	<i>149,627</i>		
	î	î			
Subtotal					
<b>V.</b>	<b>TOPSOIL REDISTRIBUTION AREA</b>				
	Topsoil Redistribution	SY	84,317		
	Seed and Mulch	SY	84,317		
	î	î			
Subtotal					
<b>VI.</b>	<b>BUILDING EXCAVATION</b>				
	<b>Unit Count</b>				
	Clubhouse Building Count (For Reference Only)	EA	1		
	2 Unit Building Count (For Reference Only)	EA	2		
	4 Unit Building Count (For Reference Only)	EA	20		
	5 Unit Building Count (For Reference Only)	EA	1		
	6 Unit Building Count (For Reference Only)	EA	10		
	<b>Total Area =</b>	<b>EA</b>	<b>34</b>		
	<b>Unit Area</b>				
	Clubhouse Building Area (For Reference Only), 2984 sf each	SF	2,984		
	2 Unit Building Area (For Reference Only), 3911 sf each	SF	7,822		
	4 Unit Building Area (For Reference Only), 7407 sf each	SF	148,140		
	5 Unit Building Area (For Reference Only), 8954 sf each	SF	8,954		
	6 Unit Building Area (For Reference Only), 11032 sf each	SF	110,320		
	<b>Total Area =</b>	<b>SF</b>	<b>278,220</b>		
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>VII.</b>	<b>SANITARY SEWER</b>				
	<i>NOTE: We did not include the 195 lf of pipe to the lift station or the lift station in this takeoff.</i>				
	<b>Pipe Excavation and Bedding</b>				
	Excavation	CY	4,430		
	Bedding -- Assume 6" thick and 12" cover	CY	1,380		
	Select Backfill	CY			
	Common Backfill	CY	2,980		
	Excess (See Mass Earthwork Overall Summary)	CY	1,440		
	<b>Services</b>				
	8" x 8" x 4" Sanitary Wye and Bend	EA	150		
	4" Cleanout Assembly in landscape	EA	150		
	4" PVC Lateral, 25 lf each	LF	3,750		
	<b>Pipe</b>				
	8" PVC SDR 35 (0'-6' deep)	LF	3,309		
	8" PVC SDR 35 (6'-8' deep)	LF	658		
	<b>Total =</b>	<b>LF</b>	<b>3,967</b>		
	<i>pipe check</i>		<i>3,967</i>		
	<b>Structures</b>				
	Manhole (0'-6' deep)	EA	21		
	Manhole (6'-8' deep)	EA	1		
	Manhole (8'-10' deep)	EA	1		
	<b>Total =</b>	<b>EA</b>	<b>23</b>		
	<i>structure check</i>		<i>23</i>		
	î	î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>VIII.</b>	<b>WATER - DOMESTIC SUPPLY</b>				
	<b>Pipe Excavation and Bedding</b>				
	Excavation	CY	3,530		
	Bedding -- Assume 6" thick and 12" cover	CY	1,300		
	Select Backfill	CY			
	Common Backfill	CY	2,180		
	Excess (See Mass Earthwork Overall Summary)	CY	1,350		
	<b>Services</b>				
	8" x 3/4" Saddle, Tap and Corporation	EA	150		
	3/4" Curb Stop and Box	EA	150		
	Water Meters - supplied by the Developer as specified by the Borough superintendent	EA	150		
	16" x 30" Meter Box	EA	150		
	3/4" Type "K" Copper Water Service Pipe, 25 lf each	LF	3,750		
	<b>Pipe</b>				
	<i><b>NOTE:</b> Plan 25 of 29 shows 6" water pipe, however all other plans showing the water main indicate 8". We assume 8" pipe for all water main pipe.</i>				
	8" PVC C-900	LF	4,174		
	<b>Fittings</b>				
	8" Bend	EA	14		
	8" x 8" x 8" Tee	EA	5		
	<b>Valves</b>				
	8" Gate Valve and Box	EA	9		
	<b>Connect to Existing</b>				
	Connect to Existing <i><b>NOTE:</b> Plans do not indicate location of water source. We made no assumption for location or connection to source.</i>	LS	1		
	<b>Testing and Sterilization</b>				
	Flushing and Testing	LF	4,174		
	Chlorination	LF	4,174		
	î	î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>IX.</b>	<b>WATER - FIRE SUPPLY MAIN</b>				
	<b>Pipe Excavation and Bedding</b>				
	Excavation	CY	1,500		
	Bedding -- Assume 6" thick and 12" cover	CY	580		
	Select Backfill	CY			
	Assume Common Backfill	CY	900		
	Excess (See Mass Earthwork Overall Summary)	CY	600		
	<b>Pipe</b>				
	<i>NOTE: No pipe size or type is shown for fire main. We assume main pipe and pipe to hydrants both to be 6".</i>				
	6" pipe to hydrants	LF	128		
	6" main	LF	3,116		
	<b>Total =</b>	<b>LF</b>	<b>3,244</b>		
	<b>Fittings</b>				
	<i>NOTE: No pipe size or type is shown for fire main. We assume all fittings and valves to be on 6" pipe.</i>				
	6" Bend	EA	15		
	6" x 6" x 6" Tee	EA	7		
	<b>Valves</b>				
	6" Gate Valve and Box	EA	6		
	<b>Hydrants</b>				
	Fire Hydrants <i>NOTE: This includes the hydrant at the intersection of Ocean Drive and Audrey Court. This hydrant is labeled but no symbol is show as in other locations. We assume hydrant required.</i>	EA	6		
	<b>Connect to Existing</b>				
	Connect to Existing <i>NOTE: Plans do not indicate location of water source. This takeoff includes water pipe to limit shown on plan 22. We were not provide with the report by Nan-Vote, Garvey and Associates for supply well, pump or connection requirements</i>	LS	1		
	<b>Holding Tank</b>				
	10,000 gallon holding tank <i>NOTE: Plan 22 shows an area to be reserved for this tank, however no detail is provided and we are unclear if the tank is to be included in the bid.</i>	EA	1		
	<b>Testing</b>				
	Flushing and Testing	LF	3,244		
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>X.</b>	<b>WATER - FIRE SUPPLY FROM BASIN</b>				
	<b>Pipe Excavation and Bedding</b>				
	Excavation	CY	190		
	Bedding -- Assume 6" thick and 12" cover	CY	70		
	Select Backfill	CY			
	Assume Common Backfill	CY	110		
	Excess (See Mass Earthwork Overall Summary)	CY	80		
	<b>Pipe</b>				
	6" C-900 PVC	LF	410		
	8" Perforated C-900 PVC <b>NOTE:</b> Placed above proposed grade with (3) pipe supports on each of 2 runs, no excavation required for pipe.	LF	30		
	6" C-900 PVC vertical riser pipe	LF	14		
	<b>Total =</b>	<b>LF</b>	<b>454</b>		
	<b>Fittings</b>				
	6" Bend	EA	3		
	6" x 6" elbow with thrust block	EA	2		
	6" x _" reducing elbow, size cap end to meet local fire department regulations	EA	2		
	<b>Bollards</b>				
	Pipe Bollards, 3'-0" exposed height with 3' bury set in concrete footing	EA	6		
	<b>Testing</b>				
	Flushing and Testing	LF	454		
	î	î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>XI.</b>	<b>STORM SYSTEM</b>				
	<b>Pipe Excavation and Bedding</b>				
	Excavation	CY	4,490		
	Bedding -- Assume 6" thick and 12" cover	CY	1,910		
	Select Backfill	CY			
	Assume Common Backfill	CY	2,060		
	Excess (See Mass Earthwork Overall Summary)	CY	2,430		
	<b>Pipe</b>				
	8" PVC (0'-6' deep)	LF	5		
	15" RCP Class IV (0'-6' deep)	LF	294		
	15" RCP Class IV (6'-8' deep)	LF	25		
	15" ADS N-12 (0'-6' deep)	LF	505		
	15" ADS N-12 (8'-10' deep)	LF	33		
	18" RCP Class IV (0'-6' deep)	LF	33		
	18" RCP Class IV (6'-8' deep)	LF	223		
	18" ADS N-12 (0'-6' deep)	LF	362		
	18" ADS N-12 (6'-8' deep)	LF	205		
	21" RCP Class IV (0'-6' deep)	LF	25		
	21" ADS N-12 (0'-6' deep) <b>NOTE:</b> There is a discrepancy in the pipe length between Inlets #21 and #22. Plan 14 shows the pipe to be 290 lf while plan 15 shows the pipe to be 300 lf. We assume 300 lf correct.	LF	548		
	24" RCP Class IV (0'-6' deep)	LF	923		
	27" RCP Class IV (0'-6' deep)	LF	601		
	27" RCP Class IV (6'-8' deep)	LF	148		
	30" RCP Class IV (0'-6' deep)	LF	425		
	24" x 38" HERCP Class IV (0'-6' deep)	LF	500		
	27" x 42" HERCP Class IV (0'-6' deep)	LF	165		
	<b>Total =</b>	<b>LF</b>	<b>5,020</b>		
	<i>pipe check</i>		<i>5,020</i>		

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	<b>Structures</b>				
	Headwall for 24" x 38" HERCP Pipe	EA	1		
	Headwall for 27" x 42" HERCP Pipe	EA	1		
	Inlets Type "B" (0'-6' deep)	EA	28		
	Inlets Type "B" (6'-8' deep)	EA	6		
	Inlets Type "E" (0'-6' deep)	EA	5		
	Inlets Type "E" (6'-8' deep)	EA	1		
	Manholes, 4' diameter (6'-8' deep)	EA	1		
	Manholes, 4' diameter (8'-10' deep)	EA	1		
	<b>Total =</b>	<b>EA</b>	<b>44</b>		
	<i>structure check</i>		<i>44</i>		
	<b>Stone Low Flow Channel</b>				
	<b>NOTE:</b> Detail provide on plan 28 of 29, unable to locate in plan view.				
	Length	LF			
	2" to 3" diameter Stone Area, 3' wide x 6" deep	SF			
	<b>Weir \ Overflow</b>				
	<b>NOTE:</b> Detail provide on plan 28 of 29, unable to locate in plan view. Basin plan view shows a grass overflow area.				
	Length	LF			
	3" to 6" diameter Delaware River Stone Area, _' wide x _" deep	SF			
	î	î			
	Subtotal				
<b>XII.</b>	<b>CONCRETE</b>				
	<b>Curb</b>				
	Concrete Curb, 6" x 8" x 18" high <b>NOTE:</b> Detail provided on both plans 7 and 28 of 29. We assume site detail is detail shown on plan 28 for site concrete curb.	LF	7,736		
	Vertical White Concrete Curb, 8" x 9" x _" high <b>NOTE:</b> Detail provided on both plans 7 and 28 of 29. We assume curb along Route 9 to site property line to be the detail as shown on plan 7. Detail specifies multiple heights, we made no assumption.	LF	95		
	<b>Sidewalk - along roads</b>				
	Concrete, 4" thick	SF	28,381		
	Stone Base, _" thick <b>NOTE:</b> No stone base shown on detail.	SF			

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	<b>Sidewalk - at units</b>				
	Concrete, 4" thick	SF	27,595		
	Stone Base, _" thick <b>NOTE: No stone base shown on detail.</b>	SF			
	<b>Sidewalk - Clubhouse/Pool Area</b>				
	Concrete, 4" thick	SF	2,604		
	Stone Base, _" thick <b>NOTE: No stone base shown on detail.</b>	SF			
	<b>Concrete Apron for driveway into wastewater treatment area.</b>				
	<b>NOTE: No detail provided.</b>				
	Concrete, _" thick	SF	672		
	Stone Base, _" thick	SF			
	<b>Trash Enclosure Pad</b>				
	Reinforced Concrete, 6" thick	SF	100		
	Stone Base, _" thick <b>NOTE: No stone base shown on detail.</b>	SF			
	<b>Grass Pavers</b>				
	<b>NOTE: No detail provided for grass pavers. We assume same detail as turf pavers.</b>				
	Excavation Box Out	CY	40		
	Fine Grade and Compact Subgrade	SF	1,440		
	3/4" Modified Stone, 4" to 10" thick	SF	1,440		
	Sand, 1-1/2" thick	SF	1,440		
	Turf Pavers, 3-1/8"	SF	1,440		
	<b>Turf Pavers</b>				
	Excavation Box Out	CY	498		
	Fine Grade and Compact Subgrade	SF	10,746		
	3/4" Modified Stone, 4" to 10" thick	SF	10,746		
	Sand, 1-1/2" thick	SF	10,746		
	Turf Pavers, 3-1/8"	SF	10,746		
	<b>Walking Path</b>				
	<b>NOTE: No detail provided.</b>				
	Walking Path Area	SF	7,503		
	<b>Miscellaneous Concrete</b>				
	Precast Wheel Stops	EA	72		
	î	î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>XIII.</b>	<b>PAVEMENT</b>				
	<b>Site Pavement</b>				
	Fine Grade and Compact Subgrade	SY	18,439		
	Gravel Base Course Type 2 class B, 6" thick	SY	18,439		
	Bituminous Stabilized Base Course (mix No. 1), 2" thick	SY	18,439		
	FABC-1 (mix I-5), 1" thick	SY	18,439		
	<b>Tennis Court Pavement</b>				
	<i>NOTE: We assume this area to be entire area within fence including the optional tennis court. No detail provide, assume same as site road pavement.</i>				
	Fine Grade and Compact Subgrade	SY	1,392		
	Gravel Base Course Type 2 class B, 6" thick	SY	1,392		
	Bituminous Stabilized Base Course (mix No. 1), 2" thick	SY	1,392		
	FABC-1 (mix I-5), 1" thick	SY	1,392		
	<b>Route 9 pavement repair for new curb and Ocean Drive intersection</b>				
	<i>NOTE: We assume this repair strip required. No detail provided</i>				
	Saw Cut Pavement	LF	116		
	Remove Pavement, assume 2' wide	SY	26		
	Fine Grade and Compact Subgrade	SY	26		
	DGA Stone Base Course, _" thick	SY	26		
	Bituminous Stabilized Base Course, _" thick	SY	26		
	Bituminous Wearing Course, _" thick	SY	26		
	<b>Driveways</b>				
	Driveway Area (for reference only)	SY	6,849		
	<b>Asphalt Emergency Access Road</b>				
	<i>NOTE: No detail provided. Assume same detail as site pavement.</i>				
	Excavation Box Out	CY	270		
	Fine Grade and Compact Subgrade	SY	1,078		
	Gravel Base Course Type 2 class B, 6" thick	SY	1,078		
	Bituminous Stabilized Base Course (mix No. 1), 2" thick	SY	1,078		
	FABC-1 (mix I-5), 1" thick	SY	1,078		
	î	î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>XIV.</b>	<b>STRIPING AND SIGNS</b>				
	<b>Striping</b>				
	Striping Parking Spaces	EA	72		
	Striping Crosshatch Area (including lines and spaces)	SF	1,160		
	Striping Crosswalk Area (including lines and spaces) <b>NOTE:</b> Width of crosswalk on plan scales 8', however width shown on detail as 10'. We assume detail correct.	SF	265		
	Striping Handicap Logo	EA	7		
	<b>Signs</b>				
	Stop Sign (R1-1)	EA	6		
	Handicap Parking Sign (R7-8)	EA	7		
	One Way Sign (R6-2)	EA	1		
	Keep Right Sign (R4-7)	EA	1		
	No Parking Sign (R7-1)	EA	1		
	Proposed Sign - type unknown	EA	1		
	Speed Limit Sign (R2-1) <b>NOTE:</b> Detail provide on plan 28, however we were unable to locate in plan view.	EA			
	Site Identification Sign - see detail on plan 28	EA	1		
	î	î			
Subtotal					
<b>XV.</b>	<b>FENCE AND TRASH ENCLOSURE</b>				
	<b>Fence</b>				
	6' Chain Link Fence at tennis courts and pool	LF	658		
	Gate, _' wide <b>NOTE:</b> No gates were shown on plans for this fence, we made no assumptions.	EA			
	<b>Ocean Nest Fence</b>				
	6' Chain Link Fence (around Ocean nest), unclear whether this is included in scope of work.	LF	16		
	<b>Trash Enclosure</b>				
	Board on Board Fence, pressure treated 6" wide planks with 4" x 4" x 6' exposed height with 2' bury set in 12" diameter crushed stone footing	LF	30		
	Double Gate, 10' wide pressure treated planks	EA	1		
	î	î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>XVI.</b>	<b>MISCELLANEOUS IMPROVEMENTS</b>				
	<b>Timber Wall</b>				
	1'-0" high Timber Wall	LF	68		
	<b>Gazebo</b>				
	Gazebo (for reference only), 350+/- sf each	EA	3		
	<b>Guard House</b>				
	Guard House, 10' x 10'	LS	1		
	<b>Miscellaneous</b>				
	Bike Racks (double face extra heavy duty model 580-0112)	EA	1		
	Benches - See detail on plan 28 of 29	EA	30		
	∑	∑			
Subtotal					
<b>XVII.</b>	<b>LIGHTING EXCAVATION</b>				
	<b>Excavation and Bedding</b>				
	Excavation	CY	2,670		
	Bedding -- Assume 6" thick and 12" cover	CY	1,000		
	Select Backfill	CY			
	Assume Common Backfill	CY	1,670		
	Excess (See Mass Earthwork Overall Summary)	CY	1,000		
	<b>Trenching and Base Excavation</b>				
	Trench for site lights -- approximate length	LF	9,021		
	Excavation for site bases	EA	117		
	Concrete Base Pad with anchor bolts as per specifications	EA	117		
	Sternberg 5200-TFP Tapered Fluted shaft ornamental pole, 10' high with Sternberg Old Town A 850 Acorn Fixture (with glass refractor w/ Alzak reflectors) 150 Watt HPS	EA	117		
	∑	∑			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>XVIII.</b>	<b>LANDSCAPE PLANTING</b>				
	<i>NOTE: Landscape quantities are schedules do not match the quantities shown in plan view. Landscape is shown per schedule and plan view below.</i>				
	<b>Landscape per schedule</b>				
<b>PA</b>	Norway Spruce, 5' to 6' height	EA	30		
<b>PM</b>	Douglas Fir, 6' to 8' height	EA	27		
<b>PS</b>	Eastern White Pine, 6' to 7' height	EA	26		
<b>AR</b>	Red Sunset Maple, 2-1/2" caliper	EA	52		
<b>GT</b>	Skyline Honey Locust, 2-1/2" caliper	EA	49		
<b>TCo</b>	Greenspire Linden, 5' to 6' height	EA	15		
<b>AP</b>	Korean Azalea, 15" to 18" height	EA	102		
<b>AG</b>	Gumpo White Azalea, 15" to 18" height	EA	105		
<b>AC</b>	Shadblow, 6' to 7' height	EA	11		
<b>BD</b>	Butterfly Bush, 3' to 4' height	EA	218		
<b>BN</b>	River Birch, 10' to 12' height	EA	6		
<b>CA</b>	Summersweet, 24" to 30" height	EA	131		
<b>CF</b>	Flowering Dogwood, 6' to 7' height	EA	13		
<b>HB</b>	Bonanza Daylily, 2 gallon	EA	375		
<b>HM</b>	Garden Hydrangea, 24" to 30" height	EA	117		
<b>IG</b>	Inkberry, 24" to 30" height	EA	99		
<b>IGC</b>	Compact Inkberry, 18" to 24" height	EA	120		
<b>IV</b>	Virginia Sweetspire, 24" to 30" height	EA	189		
<b>JC</b>	Hetzii Juniper, 3' to 4' height	EA	98		
<b>KL</b>	Mountain Laurel, 3' to 4' height	EA	115		
<b>LM</b>	Green Liriope, 1 gallon	EA	183		
<b>MP</b>	Northern Bayberry, 2' to 3' height	EA	114		
<b>MS</b>	Variegated Japanese Silver grass, 1 gallon	EA	117		
<b>PF</b>	Goldfinger Cinquefoil Bush, 15" to 18" height	EA	398		
<b>RM</b>	Rosebay Rhododendron, 4' to 5' height	EA	16		
<b>TC</b>	Canadian Hemlock, 5' to 6' height	EA	20		
<b>FI</b>	Common Forsythia, 4' to 5' height	EA	32		
<b>IC</b>	Japanese Holly, 3' to 4' height	EA	32		
<b>SP</b>	Persian Lilac, 3' to 4' height	EA	62		
<b>RP</b>	PJM Rhododendron, 18" to 24" height	EA	30		
<b>CAp</b>	Cranberry Cotoneaster, 12" to 15" height	EA	63		
<b>TB</b>	English Yew, 12" to 15" height	EA	30		
<b>HH</b>	St. Johnswort, 12" to 15" height	EA	58		

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>ZS</b>	Village Green Zelkova, 2-1/2" cal.	EA	15		
<b>MR</b>	Red Mulberry, 5' to 6' height	EA	11		
<b>IO</b>	American Holly, 5' to 6' height	EA	7		
<b>MH</b>	Harvest Gold Crab Apple, 2" cal.	EA	6		
<b>PS</b>	Wild Cherry, 4' to 5' height	EA	7		
<b>JV</b>	Eastern Redcedar, 5' to 6' height	EA	12		
<b>CF</b>	Dogwood, 5' to 6' height	EA	14		
<b>AA</b>	Red Chokeberry, 18" to 24" height	EA	32		
<b>VD</b>	Arrowwood, 3' to 4' height	EA	33		
	<b>Total =</b>	<b>EA</b>	<b>3,190</b>		
	<b>Landscape per plan view</b>				
<b>PA</b>	Norway Spruce, 5' to 6' height	EA	29		
<b>PM</b>	Douglas Fir, 6' to 8' height	EA	27		
<b>PS</b>	Eastern White Pine, 6' to 7' height	EA	26		
<b>AR</b>	Red Sunset Maple, 2-1/2" caliper	EA	53		
<b>GT</b>	Skyline Honey Locust, 2-1/2" caliper	EA	48		
<b>TCO</b>	Greenspire Linden, 5' to 6' height	EA	14		
<b>AP</b>	Korean Azalea, 15" to 18" height	EA	99		
<b>AG</b>	Gumpo White Azalea, 15" to 18" height	EA	105		
<b>AC</b>	Shadblow, 6' to 7' height	EA	9		
<b>BD</b>	Butterfly Bush, 3' to 4' height	EA	223		
<b>BN</b>	River Birch, 10' to 12' height	EA	6		
<b>CA</b>	Summersweet, 24" to 30" height	EA	126		
<b>CF</b>	Flowering Dogwood, 6' to 7' height	EA	13		
<b>HB</b>	Bonanza Daylily, 2 gallon	EA	365		
<b>HM</b>	Garden Hydrangea, 24" to 30" height	EA	123		
<b>IG</b>	Inkberry, 24" to 30" height	EA	99		
<b>IGC</b>	Compact Inkberry, 18" to 24" height	EA	96		
<b>IV</b>	Virginia Sweetspire, 24" to 30" height	EA	183		
<b>JC</b>	Hetzii Juniper, 3' to 4' height	EA	128		
<b>KL</b>	Mountain Laurel, 3' to 4' height	EA	117		
<b>LM</b>	Green Liriope, 1 gallon	EA	203		
<b>MP</b>	Northern Bayberry, 2' to 3' height	EA	91		
<b>MS</b>	Variegated Japanese Silver grass, 1 gallon	EA	112		
<b>PF</b>	Goldfinger Cinquefoil Bush, 15" to 18" height	EA	406		
<b>RM</b>	Rosebay Rhododendron, 4' to 5' height	EA	13		
<b>TC</b>	Canadian Hemlock, 5' to 6' height	EA	22		
<b>FI</b>	Common Forsythia, 4' to 5' height	EA	32		
<b>IC</b>	Japanese Holly, 3' to 4' height	EA	31		

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>SP</b>	Persian Lilac, 3' to 4' height	EA	62		
<b>RP</b>	PJM Rhododendron, 18" to 24" height	EA	30		
<b>CAP</b>	Cranberry Cotoneaster, 12" to 15" height	EA	63		
<b>TB</b>	English Yew, 12" to 15" height	EA	30		
<b>HH</b>	St. Johnswort, 12" to 15" height	EA	58		
<b>ZS</b>	Village Green Zelkova, 2-1/2" cal.	EA	15		
<b>MR</b>	Red Mulberry, 5' to 6' height	EA	11		
<b>IO</b>	American Holly, 5' to 6' height	EA	7		
<b>MH</b>	Harvest Gold Crab Apple, 2" cal.	EA	6		
<b>PS</b>	Wild Cherry, 4' to 5' height	EA	7		
<b>JV</b>	Eastern Redcedar, 5' to 6' height	EA	12		
<b>CF</b>	Dogwood, 5' to 6' height	EA	14		
<b>AA</b>	Red Chokeberry, 18" to 24" height	EA	32		
<b>VD</b>	Arrowwood, 3' to 4' height	EA	33		
	<b>Total =</b>	<b>EA</b>	<b>3,179</b>		
	↑	↑			
Subtotal					
	<b>TOTAL</b>				

Ocean Point Homes  
plan dated 5/25/2007

Takeoff by:	T. O'Neill
Summary by:	R. Decker
Checked by:	R. Decker
Date:	5/25/2007

Agtek File: Ocean Point East 1.0, Ocean Point West 1.0, Ocean Point Basin 1.0

(See Note 1)

	Subgrade	DISTURBANCE AREA & STRIPPING					RAW C	
		Cut, Surface	Fill, Surface	Total	Area	12" Strip	Cut Earth	Cut Rock
		SF	SF	SF	Acres	BCY	BCY	BCY
<b>ALL AREAS</b>								
Basin Area	0.50'	88,936	56,136	145,072	3.33	5,373	11,794	0
Building Areas	0.67'	51,610	228,808	280,418	6.44	10,386	1,806	0
Landscape Areas	0.50'	184,138	504,399	688,537	15.81	25,501	6,223	0
Pavement Areas	0.75'	100,871	131,745	232,616	5.34	8,615	5,999	0
∫.		0	0	0	0.00	0	0	0
<b>TOTALS</b>		<b>425,555</b>	<b>921,088</b>	<b>1,346,643</b>	<b>30.92</b>	<b>49,875</b>	<b>25,822</b>	<b>0</b>

**NOTES:**

Total Ex

1 TOPSOIL volumes are NOT included in the RAW and ADJUSTED cut & fill volumes. All earth volumes are calculated, after

Redistribute Topsoil, 6" thick		84,317±	SY
• Topsoil Required	6"	14,053	CY
• Excess Topsoil		35,822	CY

2 The last column shows the approximate finish grade adjustment required to achieve a balanced site.

3 Pavement areas above are not to be used for exact pavement areas -- e.g. islands are sometimes included within pavement

Abbreviations:

BCY = bank cubic yards (or Raw Volumes)	SF = square feet
LCY = loose cubic yards (swell factor)	B.O.C. = bottom of concrete
CCY = compacted cubic yards	(#,###) = negative number
SG = subgrade	AS = as shown

Earth_Swell	1.189
Rock_Swell	1.500
(Compaction & Swell Assumptions)	
BCY%	88.00% Existing
LCY%	74.00% Swelled

See Note 2

UT & FILL VOLUMES			VOLUMES ADJUSTED FOR SWELL & COMPACTION ASSUMPTIONS						Approx. Grade
			Earth	Rock	Proposed	LOOSE CUBIC YARDS			
Total Cut	Fill	Balance	Swell	Swell	Compaction	Cut	Fill	Balance	Adjust to Balance
BCY	BCY	BCY	1.189	1.500	Percent	LCY	LCY Required	LCY	
11,794	2,110	9,684	14,023	0	95.00%	14,023	2,709	11,314	+ 2.11'
1,806	21,739	(19,933)	2,147	0	95.00%	2,147	27,908	(25,761)	- 2.48'
6,223	31,083	(24,860)	7,399	0	90.00%	7,399	37,804	(30,405)	- 1.19'
5,999	8,177	(2,178)	7,133	0	90.00%	7,133	9,945	(2,812)	- 0.33'
0	0	0	0	0	90.00%	0	0	0	
<b>25,822</b>	<b>63,109</b>	<b>(37,287)</b>	<b>30,702</b>	<b>0</b>		<b>30,702</b>	<b>78,366</b>	<b>(47,664)</b>	<b>- 0.96'</b>
Excess topsoil =		35,822	Excess topsoil swelled 25% =				44,778		
Excess (Borrow) Material =		(1,465)	Total Excess (Borrow) Material =				(2,886)		- 0.06'

or stripping and to proposed subgrade.

This takeoff has been prepared by Walsh Estimating Service, a division of Maracorp International:

Although we have been careful to assure that all items are correct, we make no guarantee beyond the cost of our work. The contractor has the final responsibility for completeness and accuracy in the preparation of his bid.

By acceptance of this takeoff, the purchaser agrees to the following statement:

"I do hereby release and hold harmless Walsh Estimating Service, Maracorp International, Ed Walsh, and his employees from any and all errors and omissions beyond the invoiced value of services rendered."

ent earthwork areas.

Ocean Point Subdivision Sample.xls Pipe Excav Worksheet 1.0

Ocean Point Homes	INPUTS			EXCAVATION			BEDDING				BACKFILL			
	Length	Avg Depth	Pipe Dia	Trench Limits per side	Trench Width	Excavate Volume	Under Pipe	% pipe cover	cover	Bed Vol	Pipe Vol	Select Backfill	Com'n B'fill	Excess
Sample	LF	FT	IN	IN	FT	CY	IN	%	IN	CY	CY	CY	CY	CY
Prepared: 5/25/2007														
<p>This takeoff has been prepared by <i>Walsh Estimating Service</i>, a division of Maracorp International:</p> <p>Although we have been careful to assure that all items are correct, we make no guarantee beyond the cost of our work. The contractor has the final responsibility for completeness and accuracy in the preparation of his bid.</p> <p>By acceptance of this takeoff, the purchaser agrees to the following statement:</p> <p>"I do hereby release and hold harmless Walsh Estimating Service, Maracorp International, Ed Walsh, and his employees from any and all errors and omissions beyond the invoiced value of services rendered."</p>														
<b>I. SANITARY SEWER PIPE EXCAVATION</b>														
4" PVC Lateral, 25 lf each	3750	6.0	4"	12.0"	2.33	1942	6"	100%	12"	581	12	0	1349	593
8" PVC SDR 35 (0'-6' deep)	3309	6.0	8"	12.0"	2.67	1963	6"	100%	12"	666	43	0	1254	709
8" PVC SDR 35 (6'-8' deep)	658	8.0	8"	12.0"	2.67	521	6"	100%	12"	132	9	0	380	141
∑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
<b>Excavation</b>	<b>4426</b>	<b>CY</b>				<b>4426</b>				<b>1379</b>	<b>64</b>	<b>0</b>	<b>2983</b>	<b>1443</b>
<b>Bedding</b>	<b>1379</b>	<b>CY</b>												
<b>Select Backfill</b>	<b>0</b>	<b>CY</b>												
<b>Common Backfill</b>	<b>2983</b>	<b>CY</b>												
<b>Excess</b>	<b>1443</b>	<b>CY</b>												

## Ocean Point Subdivision Sample.xls Pipe Excav Worksheet 1.0

	Ocean Point Homes	INPUTS			EXCAVATION			BEDDING				BACKFILL			
		Length	Avg Depth	Pipe Dia	Trench Limits per side	Trench Width	Excavate Volume	Under Pipe	% pipe cover	cover	Bed Vol	Pipe Vol	Select Backfill	Com'n B'fill	Excess
	Sample	LF	FT	IN	IN	FT	CY	IN	%	IN	CY	CY	CY	CY	CY
<b>II.</b>	<b>DOMESTIC WATER PIPE EXCAVATION</b>														
	3/4" Type "K" Copper Water Service Pipe, 25 lf each	3750	4.8	1"	12.0"	2.08	1387	6"	100%	12"	457	1	0	929	458
	8" PVC C-900	4174	5.2	8"	12.0"	2.67	2146	6"	100%	12"	840	54	0	1252	894
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	<b>Excavation</b>	<b>3533</b>	<b>CY</b>				<b>3533</b>				<b>1297</b>	<b>55</b>	<b>0</b>	<b>2181</b>	<b>1352</b>
	<b>Bedding</b>	<b>1297</b>	<b>CY</b>												
	<b>Select Backfill</b>	<b>0</b>	<b>CY</b>												
	<b>Common Backfill</b>	<b>2181</b>	<b>CY</b>												
	<b>Excess</b>	<b>1352</b>	<b>CY</b>												
<b>III.</b>	<b>FIRE SUPPLY PIPE EXCAVATION</b>														
	6" pipe to hydrants	128	5.0	6"	12.0"	2.50	59	6"	100%	12"	23	1	0	35	24
	6" main	3116	5.0	6"	12.0"	2.50	1443	6"	100%	12"	554	23	0	866	577
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	<b>Excavation</b>	<b>1502</b>	<b>CY</b>				<b>1502</b>				<b>577</b>	<b>24</b>	<b>0</b>	<b>901</b>	<b>601</b>
	<b>Bedding</b>	<b>577</b>	<b>CY</b>												
	<b>Select Backfill</b>	<b>0</b>	<b>CY</b>												
	<b>Common Backfill</b>	<b>901</b>	<b>CY</b>												
	<b>Excess</b>	<b>601</b>	<b>CY</b>												

## Ocean Point Subdivision Sample.xls Pipe Excav Worksheet 1.0

	Ocean Point Homes	INPUTS			EXCAVATION			BEDDING				BACKFILL			
		Length	Avg Depth	Pipe Dia	Trench Limits per side	Trench Width	Excavate Volume	Under Pipe	% pipe cover	cover	Bed Vol	Pipe Vol	Select Backfill	Com'n B'fill	Excess
	Sample	LF	FT	IN	IN	FT	CY	IN	%	IN	CY	CY	CY	CY	CY
<b>IV.</b>	<b>FIRE SUPPLY PIPE EXCAVATION - from basin</b>														
	6" C-900 PVC	410	5.0	6"	12.0"	2.50	190	6"	100%	12"	73	3	0	114	76
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	<b>Excavation</b>	<b>190</b>	<b>CY</b>				<b>190</b>				<b>73</b>	<b>3</b>	<b>0</b>	<b>114</b>	<b>76</b>
	<b>Bedding</b>	<b>73</b>	<b>CY</b>												
	<b>Select Backfill</b>	<b>0</b>	<b>CY</b>												
	<b>Common Backfill</b>	<b>114</b>	<b>CY</b>												
	<b>Excess</b>	<b>76</b>	<b>CY</b>												
<b>V.</b>	<b>STORM PIPE EXCAVATION</b>														
	8" PVC (0'-6' deep)	5	6.0	8"	12.0"	2.67	3	6"	100%	12"	1	0	0	2	1
	15" RCP Class IV (0'-6' deep)	294	6.0	15"	12.0"	3.25	212	6"	100%	12"	84	13	0	115	97
	15" RCP Class IV (6'-8' deep)	25	8.0	15"	12.0"	3.25	24	6"	100%	12"	7	1	0	16	8
	15" ADS N-12 (0'-6' deep)	505	6.0	15"	12.0"	3.25	365	6"	100%	12"	144	23	0	198	167
	15" ADS N-12 (8'-10' deep)	33	10.0	15"	18.0"	4.25	52	6"	100%	12"	13	1	0	38	14
	18" RCP Class IV (0'-6' deep)	33	6.0	18"	12.0"	3.50	26	6"	100%	12"	11	2	0	13	13
	18" RCP Class IV (6'-8' deep)	223	8.0	18"	12.0"	3.50	231	6"	100%	12"	72	15	0	144	87
	18" ADS N-12 (0'-6' deep)	362	6.0	18"	12.0"	3.50	282	6"	100%	12"	117	24	0	141	141
	18" ADS N-12 (6'-8' deep)	205	8.0	18"	12.0"	3.50	213	6"	100%	12"	66	13	0	134	79

## Ocean Point Subdivision Sample.xls Pipe Excav Worksheet 1.0

	INPUTS			EXCAVATION			BEDDING				BACKFILL			
	Length	Avg Depth	Pipe Dia	Trench Limits per side	Trench Width	Excavate Volume	Under Pipe	% pipe cover	cover	Bed Vol	Pipe Vol	Select Backfill	Com'n B'fill	Excess
Sample	LF	FT	IN	IN	FT	CY	IN	%	IN	CY	CY	CY	CY	CY
21" RCP Class IV (0'-6' deep)	25	6.0	21"	12.0"	3.75	21	6"	100%	12"	9	2	0	10	11
21" ADS N-12 (0'-6' deep) NOTE: There is a discrepancy in the pipe length between Inlets #21 and #22. Plan 14 shows the pipe to be 290 lf while plan 15 shows the pipe to be 300 lf. We assume 300 lf correct.	548	6.0	21"	12.0"	3.75	457	6"	100%	12"	199	49	0	209	248
24" RCP Class IV (0'-6' deep)	923	6.0	24"	12.0"	4.00	820	6"	100%	12"	371	107	0	342	478
27" RCP Class IV (0'-6' deep)	601	6.0	27"	12.0"	4.25	568	6"	100%	12"	266	88	0	214	354
27" RCP Class IV (6'-8' deep)	148	8.0	27"	12.0"	4.25	186	6"	100%	12"	66	22	0	98	88
30" RCP Class IV (0'-6' deep)	425	6.0	30"	12.0"	4.50	425	6"	100%	12"	206	77	0	142	283
24" x 38" HERCP Class IV (0'-6' deep)	500	6.0	24"	12.0"	4.00	444	6"	100%	12"	201	58	0	185	259
27" x 42" HERCP Class IV (0'-6' deep)	165	6.0	27"	12.0"	4.25	156	6"	100%	12"	73	24	0	59	97
î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
<b>Excavation</b>	<b>4485</b>	<b>CY</b>				<b>4485</b>				<b>1906</b>	<b>519</b>	<b>0</b>	<b>2060</b>	<b>2425</b>
<b>Bedding</b>	<b>1906</b>	<b>CY</b>												
<b>Select Backfill</b>	<b>0</b>	<b>CY</b>												
<b>Common Backfill</b>	<b>2060</b>	<b>CY</b>												
<b>Excess</b>	<b>2425</b>	<b>CY</b>												

	Ocean Point Homes	INPUTS			EXCAVATION			BEDDING				BACKFILL			
		Length	Avg Depth	Pipe Dia	Trench Limits per side	Trench Width	Excavate Volume	Under Pipe	% pipe cover	cover	Bed Vol	Pipe Vol	Select Backfill	Com'n B'fill	Excess
	Sample	LF	FT	IN	IN	FT	CY	IN	%	IN	CY	CY	CY	CY	CY
<b>VI.</b>	<b>SITE LIGHTING EXCAVATION</b>														
	Trench for site lights -- approximate length	9021	4.0	0"	12.0"	2.00	2673	6"	100%	12"	1002	0	0	1671	1002
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	<b>Excavation</b>	<b>2673</b>	<b>CY</b>				<b>2673</b>				<b>1002</b>	<b>0</b>	<b>0</b>	<b>1671</b>	<b>1002</b>
	<b>Bedding</b>	<b>1002</b>	<b>CY</b>												
	<b>Select Backfill</b>	<b>0</b>	<b>CY</b>												
	<b>Common Backfill</b>	<b>1671</b>	<b>CY</b>												
	<b>Excess</b>	<b>1002</b>	<b>CY</b>												