

Harbor Glen Homes

Sample

Prepared: 5/25/2007

Final Version 1.0

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

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

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Prepared For:

Harbor Excavating

Harbor Glen Homes Sample							
Code	Description	Unit	Phase 1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total
	Exhibit A-2						
10400	Clearing	LS	\$0.00		\$0.00		\$0.00
10402	Strip & Pile Loam	LS	\$0.00		\$0.00		\$0.00
10406	Demolition of existing On Site Structures & Appendages	LS	\$0.00		\$0.00		\$0.00
10414	Dewatering	LS	\$0.00		\$0.00		\$0.00
10414	Ledge:	LS	\$0.00		\$0.00		\$0.00
10416	Cuts & Fills	LS	\$0.00		\$0.00		\$0.00
10418	Screen Loan & Stockpile (Loam Screening for lots to be included in Exhibit B-2)	LS	\$0.00		\$0.00		\$0.00
10420	Subgrade Slopes & mass grade	LS	\$0.00		\$0.00		\$0.00
10426	Loam & Seed (Road Shoulder/Island/Common Area)	LS	\$0.00		\$0.00		\$0.00
10428	Sediment Control	LS	\$0.00		\$0.00		\$0.00
10430	Retention/Detention Ponds	LS	\$0.00		\$0.00		\$0.00
10438	Sanitary Sewer	LS	\$0.00		\$0.00		\$0.00
10442	Storm Water Drainage System	LS	\$0.00		\$0.00		\$0.00
10444	Water System	LS	\$0.00		\$0.00		\$0.00
10446	Special Structures	LS	\$0.00		\$0.00		\$0.00
10450	Access Road to water treatment area	LS	\$0.00		\$0.00		\$0.00
10452	Retaining Walls	LS	\$0.00		\$0.00		\$0.00
10458	Paving 1	LS	\$0.00		\$0.00		\$0.00
10459	Paving 2	LS	\$0.00		\$0.00		\$0.00
10460	Subgrade & Gravel Road	LS	\$0.00		\$0.00		\$0.00
10464	Curb & Gutter	LS	\$0.00		\$0.00		\$0.00
10466	Sidewalks	LS	\$0.00		\$0.00		\$0.00
10468	Electrical/Telephone/Cable TV/Fire Alarm Distribution	LS	\$0.00		\$0.00		\$0.00
10470	E&B Gas Mains & Crossing w/Sand Bedding	LS	\$0.00		\$0.00		\$0.00
10478	Street & Lot Lighting	LS	\$0.00		\$0.00		\$0.00
10480	Supply/Install Street Signs	LS	\$0.00		\$0.00		\$0.00
10498	Wetland Restoration	LS	\$0.00		\$0.00		\$0.00
10500	4" Irrigation Sleeves (drives/sidewalks)	LS	\$0.00		\$0.00		\$0.00
10602	Amenities/Perimeter Improvements	LS	\$0.00		\$0.00		\$0.00
10604	Sales Trailer Sitework (Crushed Stone Parking Area)	LS	\$0.00		\$0.00		\$0.00
10605	Fence and Gate at water treatment area	LS	\$0.00		\$0.00		\$0.00
10606	Guardrails and Fence	LS	\$0.00		\$0.00		\$0.00
10724	Winter Condition	LS	\$0.00		\$0.00		\$0.00
	Exhibit B-2	LS					\$0.00
10408	E&B Buildings	LS		\$0.00		\$0.00	\$0.00
10424	Screen/spread Loan & fine grade @ each unit (includes netting on 3"1 slopes)	LS		\$0.00		\$0.00	\$0.00
10432	Perimeter/foundation Drains @ each unit	LS		\$0.00		\$0.00	\$0.00
10438	Sewer Laterals @ each unit	LS		\$0.00		\$0.00	\$0.00
10444	Water Laterals @ each unit	LS		\$0.00		\$0.00	\$0.00
10444.1	Fire Suppression Laterals @ each unit	LS		\$0.00		\$0.00	\$0.00
10450.1	10" of 3/4" Stone in basement @ each unit	LS		\$0.00		\$0.00	\$0.00
10450.2	F&I (3) 12"x4' Sonotubes w/conc. @ each unit	LS		\$0.00		\$0.00	\$0.00
10450.3	6" - 3/4" stone under condensor pad @ each unit	LS		\$0.00		\$0.00	\$0.00
10450.4	4" -3/4" stone w/poly under deck @ each unit	LS		\$0.00		\$0.00	\$0.00
10452	Boulder Retaining walls @ each unit	LS		\$0.00		\$0.00	\$0.00
10456	Binder Driveway @ each unit	LS		\$0.00		\$0.00	\$0.00
10458	Top Coat Driveway @ each unit	LS		\$0.00		\$0.00	\$0.00
10460	Gravel/Grade/Compact walkways/Driveways @ each unit	LS		\$0.00		\$0.00	\$0.00
10468	E&B E/T/C per Building w/sand bedding	LS		\$0.00		\$0.00	\$0.00
10470	E&B Gas services w/sand bedding per Building	LS		\$0.00		\$0.00	\$0.00
20918	Roof Drains and Recharger Systems	LS		\$0.00		\$0.00	\$0.00
	TOTAL		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
	Harbor Glen Homes												
	Sample												
	Prepared: 5/25/2007												
	NOTES:												
	1. Specifications have not been reviewed.												
	2. Pavement and Landscape areas from Agtek are not to be used for exact quantities (e.g. curbed islands and sidewalks are included within pavement/landscape surface areas)												
	3. Agtek File Name(s): HarborGlen Lots&Bldgs 1.0, Harbor Glen mat 1.0												
GC.	GENERAL CONDITIONS												
	Bonding and Insurance	LS	1	1	1	1	4						
	Mobilization / Demobilization	LS	1	1	1	1	4						
	Surveys, Stake Out and Bench Marks	LS	1	1	1	1	4						
	Site Safety and Security	LS	1	1	1	1	4						
	Traffic Control Measures	LS	1	1	1	1	4						
	Site Cleanliness and Debris removal	LS	1	1	1	1	4						
	Other Conditions	LS	1	1	1	1	4						
	î	î											
Subtotals													

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Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
I.	EROSION AND SEDIMENT CONTROL												
	General Items												
10428	Construction Entrance Pad, 6" thick	CY	17		17		34						
10428	Filter Fabric for construction entrance pad	SY	100		100		200						
10428	Inlet Filters, (hay bales)	EA	16		10		26						
10428	Silt Fence, 24" high (Mirafi filter fabric or approved equal)	LF	2,155		2,365		4,520						
10428	Silt Fence, 24" high (Mirafi filter fabric or approved equal) with staked haybales	LF	105				105						
10428	Mountable Berms	EA	2		1		3						
10428	Removable Erosion Control Barrier	EA	1				1						
10428	Temporary seeding as required	LS	1	1	1	1	4						
	Temporary Pipe												
10428	Temporary Culvert pipe as required during installation of box culvert	LS	1				1						
10428	Temporary 12" HDPE standpipe discharge pipe	LF	70				70						
10428	Temporary 12" Pipe if necessary	LF	494				494						
10428	Temporary Standpipes, 12" diameter HDPE pipe set on 12" HDPE tee section (pipe and tee to have 2" perforations, perforated section to be wrapped in filter fabric). Standpipe to have trash rack and base be to surrounded by 3" stone. NOTE: Elevation to be set 12" below top of berm.	EA	7		3		10						
	∑	∑											
Subtotals													
II.	SITE CLEARING AND DEMOLITION												
	NOTE: Existing conditions plans indicate existing cart paths. We assume these to be dirt or gravel and have not included any work associated with the removal of them.												
10400	Clear, Grub and Dispose Trees and Stumps	AC	3.09		0.87		3.96						
10406	Saw Cut Glen Road Pavement	LF	68		68		136						
10406	Remove Curb assume along Glen Road	LF	68		68		136						
	∑	∑											
Subtotals													

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
III.	EXCAVATION (All volumes are "Raw" -- no assumptions for swell or compaction)												
	DISTURBANCE AREA	SF	361,589		259,947		621,536						
	Disturbance Area, Acres	Acre	8.30		5.97		14.27						
	↑	↑											
10402	Strip Topsoil Areas, 12" thick	CY	18,935		10,954		29,889						

	SUBGRADE ASSUMPTIONS:												
	Basin	0.33'											
	Building Areas	0.67'											
	Landscape Areas	0.33'											
	Pavement Areas	1.79'											

	UNCLASSIFIED CUT:												
10416	Basin	CY	699		67		766						
10416	Building Areas	CY	257		28		285						
10416	Landscape Areas	CY	250		119		369						
10416	Pavement Areas	CY	15		45		60						
	TOTAL CUT =	CY	1,221		259		1,480						
	UNCLASSIFIED FILL:												
10416	Basin	CY	4,756		766		5,522						
10416	Building Areas	CY	6,993		5,561		12,554						
10416	Landscape Areas	CY	33,401		29,197		62,598						
10416	Pavement Areas	CY	5,873		4,394		10,267						
	TOTAL FILL =	CY	51,023		39,918		90,941						

10416	UNCLASSIFIED EXCESS (BORROW) =	CY	(49,802)		(39,659)		(89,461)						

	OVERALL UNCLASSIFIED SUMMARY:												
10416	Unclassified Excess (Borrow)	CY	(49,802)		(39,659)		(89,461)						
10416	Wall Excavation Excess	CY	70				70						
10416	Pipe Trench Excess	CY	5,740	350	2,220	410	8,720						
10416	Rip Rap Excess	CY	35		33		68						
10416	Drywell Chamber and Infiltration Bed Excess	CY	209	301	10	486	1,006						
10416	TOTAL EXCESS (BORROW) =	CY	(43,992)	350	(37,406)	410	(80,638)						
	↑	↑											

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	↑	↑											
	TOPSOIL SUMMARY:												
	Strip Volume	CY	18,935		10,954		29,889						
	Required Volume, 4" thick	CY	2,023	944	200	944	4,111						
10416	EXCESS (BORROW) TOPSOIL =	CY	16,912	(944)	10,754	(944)	25,778						
	↑	↑											
Subtotals													
III-1.	ROCK BLASTING (AND REMOVAL) - If Required (Unit Price)												
10414	Mass Rock Blasting	CY											
10414	Trench Rock Blasting (0'-6' deep)	LF											
10414	Trench Rock Blasting (6'-9' deep)	LF											
10414	Trench Rock Blasting (9'-4' deep)	LF											
	↑	↑											
Subtotals													
IV.	ROUGH GRADING AREAS												
	Important	<i>NOTE: 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)</i>											
		Grading Areas											
10420	Basin	SY	9,918		1,821		11,739						
10420	Building Areas	SY	6,903		7,112		14,015						
10420	Landscape Areas	SY	20,129		17,481		37,610						
10420	Pavement Areas	SY	3,227		2,469		5,696						
		Total =	SY	40,177		28,883		69,060					
		<i>check</i>	<i>SY</i>	<i>40,177</i>		<i>28,883</i>		<i>69,060</i>					
	↑	↑											
Subtotals													

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V.	TOPSOIL REDISTRIBUTION AREA												
	<i>NOTE: Topsoil Redistribution for septic and wetland areas are included in sections VIII. and XX. They are <u>NOT</u> included with the Roadwork or Lots shown below.</i>												
	Topsoil - Roadwork												
	10418 Screening Topsoil	CY	1,100		200		1,300						
	10426 Redistribute Topsoil -- Assume 4" thick	SY	9,918		1,821		11,739						
	10426 Seed and Mulch	SY	9,918		1,821		11,739						
	Topsoil - Lots												
	10424 Screening Topsoil	CY		944		944	1,888						
	10424 Redistribute Topsoil -- Assume 4" thick	SY		8,453		8,498	16,951						
	10424 Seed and Mulch	SY		8,453		8,498	16,951						
	↑	↑											
Subtotals													
VI.	BUILDING EXCAVATION												
	Building Area (For Reference Only)	SF		60,419		63,766	124,185						
	10408 Excavate and Backfill Buildings	UNIT		32		34	66						
	10432 Perimeter Drains	UNIT		32		34	66						
	10432 _" Foundation Drain Outlet	LF		901		664	1,565						
	10450.1 3/4" Stone in Basement, 10" thick	UNIT		32		34	66						
	10450.2 F&I (3) 12" x 4" Sonotubes with concrete	UNIT		32		34	66						
	10450.3 3/4" Stone under compress pad (assume one per unit), 6" thick	EA		32		34	66						
	10450.4 3/4" Stone with Poly under deck, 4" thick	EA		32		34	66						
	10470 Gas Lateral with sand bedding to units <i>NOTE: Not shown on plans, If required assume same length as electric laterals</i>	LF											
	↑	↑											
Subtotals													

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
VII.	RETAINING WALLS												
	Block Walls												
10452	Wall length	LF	400				400						
10452	Excavation	CY	110				110						
10452	Backfill	CY	40				40						
10452	Excess (See Mass Earthwork Overall Summary)	CY	70				70						
10452	Face Area (one side), 6.5' height including 2' bury	SF	2,590				2,590						
10452	Force Protection Face Area	SF	1,400				1,400						
10452	Geogrid - <i>As required</i>	SY											
10452	Drainage Fill behind wall, 12" thick	CY	96				96						
10452	Filter Fabric	SY	443				443						
10452	Drainage Pipe, 4" dia. encased in 6" of 34" stone wrapped in filter fabric	LF	400				400						
	Boulder Walls												
10452	Boulder Walls	LF		137		153	290						
	↑	↑											
Subtotals													
VIII.	SANITARY SEWER												
	Pipe Excavation and Bedding												
10438	Excavation	CY	3,220	360	910	390	4,880						
10438	Bedding -- Assume 6" thick and 12" cover	CY	580	110	230	120	1,040						
10438	Select Backfill	CY	2,260		680		2,940						
10438	Common Backfill	CY	350	250		270	870						
10438	Excess (See Mass Earthwork Overall Summary)	CY	2,870	110	910	120	4,010						
	Services												
10438	8" x 8" x 4" Sanitary Wye	EA	32		34		66						
10438	4" Cleanout	EA	32		34		66						
10438	4" PVC SDR 35 Lateral (within right of way)	LF	587		437		1,024						
10438	4" PVC SDR 35 Lateral (from right of way to unit)	LF		698		744	1,442						

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
	Pipe in pavement												
	<i>NOTE: We assume all pipe to be PVC SDR 35 based upon the wastewater collection, treatment and disposal plans.</i>												
10438	8" PVC SDR 35 (6'-8' deep)	LF			414		414						
10438	8" PVC SDR 35 (8'-10' deep)	LF	72		264		336						
10438	8" PVC SDR 35 (10'-12' deep)	LF	610				610						
10438	8" PVC SDR 35 (12'-14' deep)	LF	354				354						
10438	8" PVC SDR 35 (14'-16' deep)	LF	155				155						
10438	8" CLDIP (12'-14' deep)	LF	184				184						
	Total =	LF	1,375		678		2,053						
	Pipe in landscape												
	<i>NOTE: We assume all pipe to be PVC SDR 35 based upon the wastewater collection, treatment and disposal plans.</i>												
10446	2" PVC SDR 21 forcemain in landscape	LF	5				5						
10446	6" PVC SDR 21 forcemain in landscape	LF	7				7						
10446	8" PVC SDR 21 forcemain in landscape	LF	161				161						
10446	8" PVC SDR 35 (0'-4' deep) in landscape	LF	35				35						
10446	8" PVC SDR 35 (4'-6' deep) in landscape <i>NOTE: Plans dimension this pipe as 131 LF, however it only scales 118 LF.</i>	LF	118				118						
10446	8" PVC SDR 35 (6'-8' deep) in landscape	LF	8				8						
10446	8" PVC SDR 35 (14'-16' deep) in landscape	LF	122				122						
	Total =	LF	456				456						
	Structures												
10438	Manhole (0'-4' deep)	EA	1				1						
10438	Manhole (6'-8' deep)	EA	1		3		4						
10438	Manhole (8'-10' deep)	EA	2		1		3						
10438	Manhole (10'-12' deep)	EA	1				1						
10438	Manhole (12'-14' deep)	EA	6				6						
10438	Manhole (16'-18' deep)	EA	1				1						
	Total =	EA	12		4		16						

Code				Phase1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total		Phase 1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total
		ITEM	UNIT	QUANT	QUANT	QUANT	QUANT	QUANT	PRICE	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
		Disposal Area Structures												
ST1	10446	27,000 gallon Septic Tank	EA	1				1						
ST1	10446	10,000 gallon Septic Tank	EA	1				1						
PC1	10446	15,000 gallon Pump Chamber	EA	1				1						
PC2	10446	15,000 gallon Pump Chamber	EA	1				1						
	10446	6" Gate Valve and Box	EA	1				1						
	10446	Distribution Box (4 way)	EA	1				1						
	10446	8" Gate Valve and Box	EA	1				1						
PCA	10446	Pump Chamber, Duplex submersible influent grinder pump station 6' diameter x 22.5' deep	EA	1				1						
ES1	10446	10,000 gallon Emergency Storage Tank	EA	1				1						
		Recirculating Sand Filter												
	10446	Recirculating Sand Filter Area, 45' x 45'	SF	2,025				2,025						
	10446	Concrete Footing, 30" wide x 12" thick	LF	180				180						
	10446	Concrete Foundation Wall, 10" thick x 7'+/- high	LF	180				180						
	10446	Concrete Floor Slab, 6" thick	SF	2,025				2,025						
	10446	3/4" -1-1/2" Stone, 12" thick	SF	2,025				2,025						
	10446	Pea Stone, 3" thick	SF	2,025				2,025						
	10446	Filter Sand, 36" thick	SF	2,025				2,025						
	10446	Pea Stone, 8" thick	SF	2,025				2,025						
	10446	Coarse Sand, 12" thick	SF	2,025				2,025						
	10446	Topsoil, 12" thick	SF	2,025				2,025						
	10446	Permeable Geotextile Filter Fabric	SF	2,025				2,025						
	10446	60 mil EPDM Liner with Geotextile	SF	2,025				2,025						
	10446	4" perforated schedule 40 laterals	LF	405				405						
	10446	8" schedule 40 PVC Header	LF	90				90						
		Leach Field												
	10446	Leach Field Area, 142' x 144'	SF	20,448				20,448						
	10446	3/4" -1-1/2" Double Washed Stone, 10" thick	SF	20,448				20,448						
	10446	Pea Stone, 5" thick	SF	20,448				20,448						
	10446	Topsoil, 12" thick	SF	20,448				20,448						
	10446	Permeable Geotextile Filter Fabric	SF	20,448				20,448						
	10446	10" SDR 21 PVC Header Pipe	LF	140				140						
	10446	1-1/2' SDR 21 PVC Perforated Laterals	LF	2,414				2,414						
	10446	1-1/2' SDR 21 Solid PVC	LF	280				280						

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10446	10" x 10" x 6" Tee (set vertical)	EA	17				17						
10446	6" x 4" Reducer, 4" x 3" Reducer, 3" x 2" Reducer and 2" x 2" x 2" Tee Assembly (set vertical)	EA	17				17						
10446	Terminal Cleanout on end of 10" header pipe reduced to 4" riser cleanout	EA	1				1						
10446	1-1/2" PVC Ball Valve	EA	34				34						
10446	15' wide Berm, 1.75'+/- above existing grade, 860 LF	CY	836				836						
	↑	↑											
Subtotals													
IX.	WATER												
	Pipe Excavation and Bedding												
10444	Excavation	CY	1,300	260	850	280	2,690						
10444	Bedding -- Assume 6" thick and 12" cover	CY	480	90	310	100	980						
10444	Select Backfill	CY	810		530		1,340						
10444	Common Backfill	CY		160		180	340						
10444	Excess (See Mass Earthwork Overall Summary)	CY	1,300	90	850	100	2,340						
	Services												
10444	1-1/4" Tap and Corporation	EA	32		34		66						
10444	1-1/4" Curb Stop and Box (valve box to be cast iron with 2-1/2" opening)	EA	32		34		66						
10444	1-1/4" assume Copper Water Service Pipe (within right of way)	LF	587		437		1,024						
10444	1-1/4" assume Copper Water Service Pipe (from right of way to unit)	LF		698		744	1,442						
10444.1	" Fire Suppression Lateral NOTE: Not shown on plans, if required assume same length as water laterals.	LF											
	Pipe												
10444	4" PVC NOTE: Plans 15-17 call for the water main to be 4" PVC, however plan "Figure 1" calls for the water main to be 4" DIP. We assumed PVC to be correct.	LF	1,977		971		2,948						
	Fittings												
10444	4" Vertical Bend	EA	4				4						
10444	4" Bend	EA	7		3		10						
10444	4" x 4" x 4" Tee	EA	2				2						
10444	4" Blow Off	EA			1		1						

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	Valves												
10444	4" Gate Valve and Box <i>NOTE: No valves were shown on plans. We made no assumptions for the location of water valves.</i>	EA											
	Irrigation Sleeves												
10500	4" Irrigation Sleeves	LF	640		680		1,320						
	Fire Protection Cistern												
	<i>NOTE: We did not include excavation or backfill for fire cistern.</i>												
10446	Fire Protection Cistern, Precast concrete tank as manufactured by Cistern Co. or Glen Precast Corp. and shall have a minimum usable capacity of 30,000 gallons. Cistern to have (2) 36" diameter access manholes. Cistern location to be marked with "Fire Dept. Water Source" Signs as required. See plan 23 for additional details.	EA	1		1		2						
	Testing and Sterilization												
10444	Flushing and Testing	LF	1,977		971		2,948						
10444	Chlorination	LF	1,977		971		2,948						
	↑	↑											
Subtotals													
X.	COMMUNITY WELL AND BOOSTER STATION												
	Pump Station												
10446	Pump Station Building, 20' x 11' x 9' high	LS	1				1						
10446	Pump Station Equipment - See plan Figure 2 for equipment required	LS	1				1						
	Booster Pumps												
10446	Booster Pumps	EA	2				2						
10446	4" DIP from booster pumps to pump station	LF	110				110						
	Wells and Pipe												
10446	Wells	EA	2				2						
10446	2" Polyethylene pipe	LF	78				78						
	Drainage												
10446	_ " Storage Tank Overflow to daylight with S.S. mesh insect screen	LF	40				40						
10446	4" PVC flood drain	LF	55				55						
10446	6' diameter Precast Dry Well	EA	1				1						
10446	Rip Rap Dissipator	EA	1				1						

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
	Generator												
10446	Emergency Generator on concrete pad	EA	1				1						
	LP Gas Tank												
10446	1,000 buried LP Gas tank with _" line from tank to pump station	EA	1				1						
	Storage Tank												
10446	27,000 gallon Storage Tank	LS	1				1						
	Sample Line												
10446	3/4" Type K Copper Sample line (not shown on plans, contractor shall tap line 100' from pump station and lead sample line to sample sink.	LS	1				1						
	Water Service Trenching and Main												
10446	Excavation	CY	510				510						
10446	Bedding -- Assume 6" thick and 12" cover	CY	150				150						
10446	Select Backfill	CY	360				360						
10446	Common Backfill	CY											
10446	Excess (See Mass Earthwork Overall Summary)	CY	510				510						
10446	4" PVC water main (between bend at station 0+00 along Harbor Glen Drive and pump station) <i>NOTE: Figure 1 shows this pipe to be DIP, however site plans indicate PVC pipe. We assume site plans correct.</i>	LF	989				989						
	Electric Service Trenching and Main												
10446	Excavation	CY	250				250						
10446	Bedding -- Assume 6" thick and 12" cover	CY	110				110						
10446	Select Backfill	CY	140				140						
10446	Common Backfill	CY											
10446	Excess (See Mass Earthwork Overall Summary)	CY	250				250						
10446	3" diameter Electric Service to pump station (between meter at Glen Road and pump station) <i>NOTE: Coordinate with Glen Light and Power to determine if service will be underground or overhead. We assume service underground per site plans.</i>	LF	756				756						

Code		Phase1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total	Phase 1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total
	ITEM	QUANT	QUANT	QUANT	QUANT	QUANT	PRICE	AMOUNT	AMOUNT	AMOUNT	AMOUNT
	Access Road										
10450	Fine Grade and Compact Subgrade	SY	1,175			1,175					
10450	Compacted Gravel Sub Base Course, 14" thick	SY	1,175			1,175					
10450	DGA Sub Base Course, 4" thick	SY	1,175			1,175					
10450	Binder Course, 2" thick	SY	1,175			1,175					
10450	Wear Course, 1.5" thick	SY	1,175			1,175					
	Fence and Gates										
10605	8' Chain Link Fence	LF	228			228					
10605	Double Gate, 6' wide	EA	1			1					
10605	Double Gate, 12' wide	EA	1			1					
10605	Double Gate, 24' wide	EA	1			1					
	↑	↑									
Subtotals											
XI.	STORM SYSTEM										
important	<i>NOTE: We did not include the rain gardens in this takeoff. They were shown on the landscaping plan, but were not call out on the bid form.</i>	EA									
	Pipe Excavation and Bedding										
10442	Excavation	CY	650	410		1,060					
10442	Bedding -- 6" thick and 12" cover	CY	300	190		490					
10442	Select Backfill	CY	140	130		270					
10442	Common Backfill	CY	170	60		230					
10442	Excess (See Mass Earthwork Overall Summary)	CY	480	340		820					
	Pipe										
	<i>NOTE: All HDPE pipe to be ADS N-12 or approved equal.</i>										
10442	12" HDPE (0'-4' deep) in pavement	LF	295	109		404					
10442	12" HDPE (4'-6' deep) in pavement	LF	192	296		488					
10442	12" HDPE (0'-4' deep) in landscape	LF	402	359		761					
10442	12" HDPE (4'-6' deep) in landscape	LF	192			192					
10442	(3) 12" HDPE pipes (4'-6' deep) in pavement	LF	21			21					
10442	(3) 12" HDPE pipes (4'-6' deep) in landscape	LF	30			30					
	Total =	LF	1,132	764		1,896					
	<i>pipe check</i>		<i>1,132</i>	<i>901</i>	<i>764</i>	<i>664</i>					

Code			Phase1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total		Phase 1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total
		ITEM	UNIT	QUANT	QUANT	QUANT	QUANT	PRICE	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
		Structures											
10442		Flared End Section for 12" Pipe	EA	6		4	10						
10442		Wingwall for 12" Pipe	EA	5			5						
10442		Wingwall for (3) 12" Pipes	EA	1			1						
10442		Wingwall for (4) 12" Pipes	EA	1			1						
10442		Inlets (6'-8' deep) including 4' sump	EA	10		8	18						
10442		Double Inlets (6'-8' deep) including 4' sump	EA	6		2	8						
10442		Manholes, 4' diameter (0'-4' deep)	EA	7		3	10						
10442		Manholes, 4' diameter (4'-6' deep)	EA	2		2	4						
10442		Manholes, 4' diameter (6'-8' deep)	EA	1			1						
10442		Manhole Chamber, 72" diameter x _8.3' +/- deep (4' +/- deep to pipe invert) with 8" flat slab top, with Stormceptor cover and grate and Stormceptor STC 900 insert	EA	1			1						
		Total =	EA	40		19	59						
		<i>structure check</i>		<i>40</i>		<i>19</i>	<i>59</i>						
		Open Bottom Culvert											
		NOTE: Erosion Control Plans show culvert to be 2' x 8', however all other information provided seems to indicate culvert to be 3' x 12'.											
10452		Open Bottom Culvert, 3' x 12' x 37' long with 10" thick walls and 12" thick top slab	LS	1			1						
10452		Concrete Footing, 4'-0" wide x 1'-6" thick	LF	74			74						
10452		Foundation Stem Wall, 2'-0" thick x 2'-6" high	LF	74			74						
		Outlet Structure											
osc1	10430	Outlet Structure, 4' x 4' x 3' high with Type 19-4 galvanized steel grating	EA	1			1						
osc2	10430	Outlet Structure, 4' x 4' x 3' high with Type 19-4 galvanized steel grating	EA	1			1						
osc3	10430	Outlet Structure, 4' x 4' x 3' high with Type 19-4 galvanized steel grating	EA	1			1						
osc4	10430	Outlet Structure, 4' x 4' x 3' high with Type 19-4 galvanized steel grating	EA	1			1						
osc5	10430	Outlet Structure, 4' x 4' x 3' high with Type 19-4 galvanized steel grating	EA			1	1						
osc6	10430	Outlet Structure, 4' x 6' x 3' high with Type 19-4 galvanized steel grating	EA	1			1						
osc7	10430	Outlet Structure, 4' x 4' x 3' high with Type 19-4 galvanized steel grating	EA	1			1						

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
	Catch Basin Hoods												
10442	Catch Basin Hoods <i>NOTE: Hoods shall be ADS 12" N-12 fabricated 90 degree bend or approved equal.</i>	EA	16		10		26						
	Spillways												
10430	Erosion Control Blanket for spillways	SY											
	RIP RAP												
	Rip Rap (berms and trapezoidal outlet)												
10430	Rip Rap Area	SY	108		97		205						
10430	Excavation for Rip Rap	CY	4				4						
10430	Rip Rap Volume, 12" thick	CY	24		17		41						
10430	Filter Fabric	SY	108		97		205						
	Rip Rap (aprons at flared end sections & wingwalls)												
10430	Rip Rap Area	SY	61		66		127						
10430	Excavation for Rip Rap	CY	31		33		64						
10430	Rip Rap Volume, 18" thick	CY	31		33		64						
10430	Filter Fabric	SY	61		66		127						
	↑	↑											
	Rip Rap Summary:												
10430	Area	SY	169		163		332						
10430	Excavation for Rip Rap	CY	35		33		68						
10430	Rip Rap Volume	CY	55		50		105						
10430	Filter Fabric	SY	169		163		332						
	↑	↑											
Subtotals													

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
XII.	DRYWELL CHAMBERS												
	Pipe												
20918	Roof Drain Lateral Pipe to Chambers	LF		1,595		2,425	4,020						
	Chamber No. 1												
20918	Area (for reference only)	SF				955	955						
20918	Excavation	CY				177	177						
20918	Washed Crushed Stone	CY				60	60						
20918	Common Backfill	CY				69	69						
20918	Excess (See Mass Earthwork Overall Summary)	CY				108	108						
20918	Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY				280	280						
20918	Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA				28	28						
20918	Chamber End Caps	EA				4	4						
20918	Inspection Port	EA				4	4						
20918	Vent Risers with insect screen (assume one per drywell chamber)	EA				1	1						
	Chamber No. 2												
20918	Area (for reference only)	SF				488	488						
20918	Excavation	CY				74	74						
20918	Washed Crushed Stone	CY				31	31						
20918	Common Backfill	CY				19	19						
20918	Excess (See Mass Earthwork Overall Summary)	CY				55	55						
20918	Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY				147	147						
20918	Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA				14	14						
20918	Chamber End Caps	EA				4	4						
20918	Inspection Port	EA				4	4						
20918	Vent Risers with insect screen (assume one per drywell chamber)	EA				1	1						

Code			Phase1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total		Phase 1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total
		ITEM	QUANT	QUANT	QUANT	QUANT	QUANT	PRICE	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
		Chamber No. 3											
20918		Area (for reference only)	SF	955			955						
20918		Excavation	CY	177			177						
20918		Washed Crushed Stone	CY	60			60						
20918		Common Backfill	CY	69			69						
20918		Excess (See Mass Earthwork Overall Summary)	CY	108			108						
20918		Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY	280			280						
20918		Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA	28			28						
20918		Chamber End Caps	EA	4			4						
20918		Inspection Port	EA	4			4						
20918		Vent Risers with insect screen (assume one per drywell chamber)	EA	1			1						
		Chamber No. 4											
20918		Area (for reference only)	SF			488	488						
20918		Excavation	CY			83	83						
20918		Washed Crushed Stone	CY			31	31						
20918		Common Backfill	CY			28	28						
20918		Excess (See Mass Earthwork Overall Summary)	CY			55	55						
20918		Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY			147	147						
20918		Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA			14	14						
20918		Chamber End Caps	EA			4	4						
20918		Inspection Port	EA			4	4						
20918		Vent Risers with insect screen (assume one per drywell chamber)	EA			1	1						
		Chamber No. 5											
20918		Area (for reference only)	SF			488	488						
20918		Excavation	CY			90	90						
20918		Washed Crushed Stone	CY			31	31						
20918		Common Backfill	CY			35	35						
20918		Excess (See Mass Earthwork Overall Summary)	CY			55	55						

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
20918	Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY				147	147						
20918	Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA				14	14						
20918	Chamber End Caps	EA				4	4						
20918	Inspection Port	EA				4	4						
20918	Vent Risers with insect screen (assume one per drywell chamber)	EA				1	1						
	Chamber No. 6												
20918	Area (for reference only)	SF				929	929						
20918	Excavation	CY				158	158						
20918	Washed Crushed Stone	CY				57	57						
20918	Common Backfill	CY				53	53						
20918	Excess (See Mass Earthwork Overall Summary)	CY				105	105						
20918	Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY				251	251						
20918	Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA				28	28						
20918	Chamber End Caps	EA				8	8						
20918	Inspection Port	EA				8	8						
20918	Vent Risers with insect screen (assume one per drywell chamber)	EA				1	1						
	Chamber No. 7												
20918	Area (for reference only)	SF		929			929						
20918	Excavation	CY		162			162						
20918	Washed Crushed Stone	CY		57			57						
20918	Common Backfill	CY		57			57						
20918	Excess (See Mass Earthwork Overall Summary)	CY		105			105						
20918	Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY		251			251						
20918	Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA		28			28						
20918	Chamber End Caps	EA		8			8						
20918	Inspection Port	EA		8			8						
20918	Vent Risers with insect screen (assume one per drywell chamber)	EA		1			1						

Code			Phase1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total		Phase 1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total
		ITEM	QUANT	QUANT	QUANT	QUANT	QUANT	PRICE	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
		Chamber No. 8											
20918		Area (for reference only)	SF	515			515						
20918		Excavation	CY	106			106						
20918		Washed Crushed Stone	CY	32			32						
20918		Common Backfill	CY	48			48						
20918		Excess (See Mass Earthwork Overall Summary)	CY	58			58						
20918		Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY	147			147						
20918		Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA	15			15						
20918		Chamber End Caps	EA	6			6						
20918		Inspection Port	EA	6			6						
20918		Vent Risers with insect screen (assume one per drywell chamber)	EA	1			1						
		Chamber No. 9											
20918		Area (for reference only)	SF	265			265						
20918		Excavation	CY	77			77						
20918		Washed Crushed Stone	CY	18			18						
20918		Common Backfill	CY	47			47						
20918		Excess (See Mass Earthwork Overall Summary)	CY	30			30						
20918		Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY	92			92						
20918		Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA	7			7						
20918		Chamber End Caps	EA	2			2						
20918		Inspection Port	EA	2			2						
20918		Vent Risers with insect screen (assume one per drywell chamber)	EA	1			1						
		Chamber No. 10											
20918		Area (for reference only)	SF			955	955						
20918		Excavation	CY			138	138						
20918		Washed Crushed Stone	CY			60	60						
20918		Common Backfill	CY			30	30						
20918		Excess (See Mass Earthwork Overall Summary)	CY			108	108						

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
20918	Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY				280	280						
20918	Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA				28	28						
20918	Chamber End Caps	EA				4	4						
20918	Inspection Port	EA				4	4						
20918	Vent Risers with insect screen (assume one per drywell chamber)	EA				1	1						
	<i>check</i>	<i>î</i>		6,362		9,878	16,240						
	Summary:												
20918	Roof Drain Lateral Pipe to Chambers	LF		1,595		2,425	4,020						
20918	Area (for reference only)	SF		2,664		4,303	6,967						
20918	Excavation	CY		522		720	1,242						
20918	Washed Crushed Stone	CY		167		270	437						
20918	Common Backfill	CY		221		234	455						
20918	Excess (See Mass Earthwork Overall Summary)	CY		301		486	787						
20918	Cultec No. 410 Filter Fabric or approved equal (top, sides and bottom)	SY		770		1,252	2,022						
20918	Cultec Recharger 330 Infiltration Chambers (or approved equal)	EA		78		456	534						
20918	Chamber End Caps	EA		20		103	123						
20918	Inspection Port	EA		20		28	48						
20918	Vent Risers with insect screen (assume one per drywell chamber)	EA		4		6	10						
	<i>check</i>	<i>î</i>		6,362		10,283	16,645						
	<i>î</i>	<i>î</i>											
Subtotals													

Code	ITEM	UNIT	Phase1	Phase 1	Phase 2	Phase 2	Total	PRICE	Phase 1	Phase 1	Phase 2	Phase 2	Total
			Roads	Lots	Roads	Lots			Roads	Lots	AMOUNT	AMOUNT	
			QUANT	QUANT	QUANT	QUANT	QUANT		AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
XIII.	INFILTRATION BEDS												
	Infiltration Bed No. 3												
10430	Area (for reference only)	SF	6,150				6,150						
10430	Excavation	CY	770				770						
10430	1" to 2" Washed Crushed Stone	CY	184				184						
10430	Common Backfill	CY	581				581						
10430	Excess (See Mass Earthwork Overall Summary)	CY	189				189						
10430	Non Woven Geotextile Class 2 (around stone)	SY	1,402				1,402						
10430	Rain Drain Structure	EA	1				1						
10430	4" Solid Schedule 40 PVC pipe	LF	32				32						
10430	4" Solid Schedule 40 PVC header pipe (assume fabricated with (9) crosses and (1) tee)	LF	40				40						
10430	4" Perforated Schedule 40 PVC pipe	LF	1,500				1,500						
	Infiltration Bed No. 5												
10430	Area (for reference only)	SF			75		75						
10430	Excavation	CY			10		10						
10430	1" to 2" Washed Crushed Stone	CY			2		2						
10430	Common Backfill	CY			8		8						
10430	Excess (See Mass Earthwork Overall Summary)	CY			2		2						
10430	Non Woven Geotextile Class 2 (around stone)	SY			20		20						
10430	Rain Drain Structure	EA			1		1						
10430	4" Solid Schedule 40 PVC pipe	LF			16		16						
10430	4" Solid Schedule 40 PVC header pipe (assume fabricated with (1) tee and (1) 90 degree bend)	LF			5		5						
10430	4" Perforated Schedule 40 PVC pipe	LF			30		30						
	Infiltration Bed No. 6B												
10430	Area (for reference only)	SF	657				657						
10430	Excavation	CY	110				110						
10430	1" to 2" Washed Crushed Stone	CY	19				19						
10430	Common Backfill	CY	90				90						
10430	Excess (See Mass Earthwork Overall Summary)	CY	20				20						
10430	Non Woven Geotextile Class 2 (around stone)	SY	161				161						
10430	Rain Drain Structure	EA	1				1						

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
10430	4" Solid Schedule 40 PVC pipe	LF	32				32						
10430	4" Solid Schedule 40 PVC header pipe (assume fabricated with (2) tee and (1) 90 degree bend)	LF	9				9						
10430	4" Perforated Schedule 40 PVC pipe	LF	219				219						
	Infiltration Bed No. 7B												
10430	Area (for reference only)	SF			275		275						
10430	Excavation	CY			30		30						
10430	1" to 2" Washed Crushed Stone	CY			8		8						
10430	Common Backfill	CY			22		22						
10430	Excess (See Mass Earthwork Overall Summary)	CY			8		8						
10430	Non Woven Geotextile Class 2 (around stone)	SY			72		72						
10430	Rain Drain Structure	EA			1		1						
10430	4" Solid Schedule 40 PVC pipe	LF			32		32						
10430	4" Solid Schedule 40 PVC header pipe (assume fabricated with (1) tee and (1) 90 degree bend)	LF			5		5						
10430	4" Perforated Schedule 40 PVC pipe	LF			110		110						
		check	12,167		732		12,899						
	Summary:												
10430	Area (for reference only)	SF	6,807		350		7,157						
10430	Excavation	CY	880		40		920						
10430	1" to 2" Washed Crushed Stone	CY	203		10		213						
10430	Common Backfill	CY	671		30		701						
10430	Excess (See Mass Earthwork Overall Summary)	CY	209		10		219						
10430	Non Woven Geotextile Class 2 (around stone)	SY	1,563		92		1,655						
10430	Rain Drain Structure	EA	2		2		4						
10430	4" Solid Schedule 40 PVC pipe	LF	64		48		112						
10430	4" Solid Schedule 40 PVC header pipe	LF	49		10		59						
10430	4" Perforated Schedule 40 PVC pipe	LF	1,719		140		1,859						
		check	12,167		732		12,899						
	1	1											
Subtotals													

Code		Phase1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total		Phase 1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total
	ITEM	QUANT	QUANT	QUANT	QUANT	QUANT	PRICE	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
XIV.	TRENCHING FOR ELECTRIC AND GAS											
	<i>NOTE: No gas shown on plans, we made no assumptions.</i>											
	Pipe Excavation and Bedding											
	10468 Excavation	CY	590	360	180	470		1,600				
	10468 Bedding -- Assume 6" thick and 12" cover	CY	250	150	70	190		660				
	10468 Select Backfill	CY										
	10468 Assume Common Backfill	CY	350	210	100	270		930				
	10468 Excess (See Mass Earthwork Overall Summary)	CY	250	150	70	190		660				
	Trenching											
	10468 Trenching for electric service	LF	1,844		553			2,397				
	10468 Trenching for electric laterals	LF		1,113		1,453		2,566				
	↑	↑										
Subtotals												
XV.	CURB AND SIDEWALK											
	Curb											
	10464 Bituminous Berm Curb	LF	2,430		1,652			4,082				
	10464 Sloped Granite Curb	LF	75		83			158				
	Bituminous Sidewalk											
	10460 Fine Grade and Compact Subgrade	SY		413		486		899				
	10460 Compacted Gravel Sub Base Course, 8" thick	SY		413		486		899				
	10460 Binder Course, 2" thick	SY		413		486		899				
	10460 Wear Course, 1" thick	SY		413		486		899				
	↑	↑										
Subtotals												
XVI.	PAVEMENT											
	Road Pavement											
	10460 Fine Grade and Compact Subgrade	SY	3,348		2,479			5,827				
	10460 Compacted Gravel Sub Base Course, 14" thick	SY	3,348		2,479			5,827				
	10460 DGA Sub Base Course, 4" thick	SY	3,348		2,479			5,827				
	10458 Binder Course, 2" thick	SY	3,348		2,479			5,827				
	10459 Wear Course, 1.5" thick	SY	3,348		2,479			5,827				

Code	ITEM	UNIT	Phase1 Roads QUANT	Phase 1 Lots QUANT	Phase 2 Roads QUANT	Phase 2 Lots QUANT	Total QUANT	PRICE	Phase 1 Roads AMOUNT	Phase 1 Lots AMOUNT	Phase 2 Roads AMOUNT	Phase 2 Lots AMOUNT	Total AMOUNT
	Pervious Brick Pavement												
10460	Fine Grade and Compact Subgrade	SY	151		75		226						
10460	Compacted Gravel Sub Base Course, _" thick	SY	151		75		226						
10460	DGA Sub Base Course, _" thick	SY	151		75		226						
10459	Brick Pavement	SY	151		75		226						
	Driveways												
10460	Fine Grade and Compact Subgrade	SY		1,376		1,412	2,788						
10460	Compacted Gravel Sub Base Course, 8" thick	SY		1,376		1,412	2,788						
10456	Binder Course, 2" thick	SY		1,376		1,412	2,788						
10458	Wear Course, 1" thick	SY		1,376		1,412	2,788						
	Gravel Access Road												
	<i>NOTE: No detail provided</i>												
10460	Fine Grade and Compact Subgrade	SY	393				393						
10460	Gravel Course, _" thick	SY	393				393						
	↑	↑											
Subtotals													
XVII.	STRIPING AND SIGNS												
	Striping												
10459	Striping Parking Spaces	EA	5		7		12						
10459	Striping Crosshatch Area (including lines and spaces)	SF	162				162						
10459	Striping Handicap Logo (if required, not shown on plans)	EA	1				1						
10459	Striping Stop Bar, 24" wide	LF	32		16		48						
	Signs												
10480	Stop Sign (R1-1)	EA	2		1		3						
10480	No Parking Any Time Sign (R7-1)	EA			3		3						
10480	Handicap Parking Sign (if required, not shown on plans)	EA	1				1						
10480	Street Sign	EA	1		1		2						
10602	Entry Sign	EA	1				1						
	↑	↑											
Subtotals													

Code	ITEM	UNIT	Phase1	Phase 1	Phase 2	Phase 2	Total	PRICE	Phase 1	Phase 1	Phase 2	Phase 2	Total
			Roads	Lots	Roads	Lots			Roads	Lots	Amount	Amount	
			QUANT	QUANT	QUANT	QUANT	QUANT		AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
XVIII.	FENCE, GUIDERAIL AND MISCELLANEOUS IMPROVEMENTS												
	Fence												
	10606 Vinyl Rail Fence with 2 rails, 3' high	LF	116		230		346						
	Guiderail												
	10606 Wooden Guiderail	LF	700		490		1,190						
	Mailbox Bank												
	10602 Mailbox Bank Pad	SF	144				144						
	↑	↑											
Subtotals													
XIX.	LIGHTING EXCAVATION												
	Excavation and Bedding												
	10478 Excavation	CY	210		140		350						
	10478 Bedding -- Assume 6" thick and 12" cover	CY	80		50		130						
	10478 Select Backfill	CY											
	10478 Assume Common Backfill	CY	130		90		220						
	10478 Excess (See Mass Earthwork Overall Summary)	CY	80		50		130						
	Trenching and Base Excavation												
	10478 Trench for site lights -- approximate length	LF	720		480		1,200						
	10478 Excavate for site bases	EA	2		1		3						
	↑	↑											
Subtotals													
XX.	WETLAND REPLICATION												
	Wetland Replication												
	10498 Wetland Replication Area	SF	2,410				2,410						
	10498 Topsoil Area, 10" to 12" thick	SY	268				268						
	Plants												
	10498 Red Maple, 5' to 6' height	EA	11				11						
	10498 Arrowwood, 3' to 4' height	EA	227				227						
	10498 Silky Dogwood, 3' to 4' height	EA	23				23						
	10498 Speckled Alder, 3' to 4' height	EA	24				24						
	10498 Sensitive Fern, 1 gallon	EA	87				87						
	↑	↑											
Subtotals													

Code		Phase1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total	Phase 1 Roads	Phase 1 Lots	Phase 2 Roads	Phase 2 Lots	Total
	ITEM	QUANT	QUANT	QUANT	QUANT	QUANT	PRICE	AMOUNT	AMOUNT	AMOUNT	AMOUNT
XXI.	LANDSCAPE PLANTING										
	<i>NOTE: We did not included landscaping in this takeoff.</i>										
	î	EA	î								
Subtotals											
	TOTAL										

Harbor Glen Homes
plan dated 05/25/2007

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

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

DISTURBANCE AREA & STRIPPING							RAW CUT & FILL VOLUMES					VOLUMES ADJUSTED FOR SWELL & COMPACTION ASSUMPTIONS						Approx. Grade Adjust to Balance
Subgrade	Cut, Surface	Fill, Surface	Total	Area	12" Strip	Cut Earth	Cut Rock	Total Cut	Fill	Balance	Earth Swell	Rock Swell	Proposed Compaction	LOOSE CUBIC YARDS				
	SF	SF	SF	Acres	BCY	BCY	BCY	BCY	BCY	BCY	1.189	1.500	Percent	Cut LCY	Fill LCY Required	Balance LCY		
ALL AREAS																		
Phase 1 - Roads																		
Basin	0.33'	18,848	70,411	89,259	2.05	3,306	699	0	699	4,756	(4,057)	831	0	95.00%	831	6,106	(5,275)	- 1.60'
Building Areas	0.67'	6,222	55,909	62,131	1.43	2,301	257	0	257	6,993	(6,736)	306	0	95.00%	306	8,978	(8,672)	- 3.77'
Landscape Areas	0.33'	7,667	173,493	181,160	4.16	6,710	250	0	250	33,401	(33,151)	297	0	90.00%	297	40,623	(40,326)	- 6.01'
Pavement Areas	1.79'	820	28,219	29,039	0.67	1,076	15	0	15	5,873	(5,858)	18	0	95.00%	18	7,540	(7,522)	- 6.99'
adjust for 18" topsoil strip		0	0	0	0.00	5,542	0	0	0	0	0	0	0	90.00%	0	0	0	
Subtotals		33,557	328,032	361,589	8.31	18,935	1,221	0	1,221	51,023	(49,802)	1,452	0	90.00%	1,452	63,247	(61,795)	- 4.61'
Phase 2 - Roads																		
Basin	0.33'	2,215	14,173	16,388	0.38	607	67	0	67	766	(699)	80	0	95.00%	80	983	(903)	- 1.49'
Building Areas	0.67'	4,092	59,916	64,008	1.47	2,371	28	0	28	5,561	(5,533)	33	0	95.00%	33	7,139	(7,106)	- 3.00'
Landscape Areas	0.33'	4,084	153,245	157,329	3.61	5,827	119	0	119	29,197	(29,078)	141	0	90.00%	141	35,510	(35,369)	- 6.07'
Pavement Areas	1.79'	1,319	20,903	22,222	0.51	823	45	0	45	4,394	(4,349)	54	0	95.00%	54	5,641	(5,587)	- 6.79'
adjust for 15" topsoil strip		0	0	0	0.00	1,326	0	0	0	0	0	0	0	90.00%	0	0	0	
Subtotals		11,710	248,237	259,947	5.97	10,954	259	0	259	39,918	(39,659)	308	0	90.00%	308	49,273	(48,965)	- 5.09'
TOTALS		45,267	576,269	621,536	14.28	29,889	1,480	0	1,480	90,941	(89,461)	1,760	0		1,760	112,520	(110,760)	- 4.81'

Excess topsoil = 25,778
Total Excess (Borrow) Material = (63,683)

Excess topsoil swelled 25% = 32,223
Total Excess (Borrow) Material = (78,537) - 3.41'

NOTES:

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

	Ph 1 Roads	Ph 1 Lots	Ph 2 Roads	Ph 2 Lots	Sewer Area 12" thick	Wetland Area 12" thick	Total	
Redistribute Topsoil, 4" thick	9,900±	8,500±	1,800±	8,500±	2,500±	270±	31,470±	SY
• Topsoil Required	4"	1,100	944	200	944	833	4,111	CY
• Excess Topsoil		17,835	(944)	10,754	(944)	(833)	25,778	CY

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."

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 earthwork areas.

	Harbor Glen 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
		LF	FT	IN	IN	FT	CY	IN	%	IN	CY	CY	CY	CY	CY
	Sample 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>															
I.- ph1R	SANITARY SEWER PIPE EXCAVATION														
	Services														
	4" PVC SDR 35 Lateral (within right of way)	587	6.0	4"	12.0"	2.33	304	6"	100%	12"	91	2	211	0	304
	Pipe in pavement														
	8" PVC SDR 35 (8'-10' deep)	72	10.0	8"	18.0"	3.67	98	6"	100%	12"	20	1	77	0	98
	8" PVC SDR 35 (10'-12' deep)	610	12.0	8"	18.0"	3.67	995	6"	100%	12"	172	8	815	0	995
	8" PVC SDR 35 (12'-14' deep)	354	14.0	8"	18.0"	3.67	674	6"	100%	12"	100	5	569	0	674
	8" PVC SDR 35 (14'-16' deep)	155	16.0	8"	18.0"	3.67	337	6"	100%	12"	44	2	291	0	337
	8" CLDIP (12'-14' deep)	184	14.0	8"	18.0"	3.67	350	6"	100%	12"	52	2	296	0	350
	Pipe in landscape														
	2" PVC SDR 21 forcemain in landscape	5	6.0	2"	12.0"	2.17	2	6"	100%	12"	1	0	0	1	1
	6" PVC SDR 21 forcemain in landscape	7	6.0	6"	12.0"	2.50	4	6"	100%	12"	1	0	0	3	1
	8" PVC SDR 21 forcemain in landscape	161	6.0	8"	12.0"	2.67	96	6"	100%	12"	32	2	0	62	34
	8" PVC SDR 35 (0'-4' deep) in landscape	35	4.0	8"	12.0"	2.67	14	6"	100%	12"	7	0	0	7	7
	8" PVC SDR 35 (4'-6' deep) in landscape NOTE: Plans dimension this pipe as 131 LF, however it only scales 118 LF.	118	6.0	8"	12.0"	2.67	70	6"	100%	12"	24	2	0	44	26
	8" PVC SDR 35 (6'-8' deep) in landscape	8	8.0	8"	12.0"	2.67	6	6"	100%	12"	2	0	0	4	2
	8" PVC SDR 35 (14'-16' deep) in landscape	122	16.0	8"	18.0"	3.67	265	6"	100%	12"	34	2	0	229	36
	∑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	3215	CY				3215				580	26	2259	350	2865
	Bedding	580	CY												
	Select Backfill	2259	CY												
	Common Backfill	350	CY												
	Excess	2865	CY												
II.- ph1R	WATER PIPE EXCAVATION														
	Services														
	1-1/4" assume Copper Water Service Pipe (within right of way)	587	4.6	2"	12.0"	2.17	217	6"	100%	12"	78	0	139	0	217
	Pipe														
	4" PVC NOTE: Plans 15-17 call for the water main to be 4" PVC, however plan "Figure 1" calls for the water main to be 4" DIP. We assumed PVC to be correct.	1977	4.8	4"	12.0"	2.33	819	6"	100%	12"	306	6	507	0	819
	Irrigation Sleeves														
	4" Irrigation Sleeves	640	4.8	4"	12.0"	2.33	265	6"	100%	12"	99	2	164	0	265
	∑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	1301	CY				1301				483	8	810	0	1301
	Bedding	483	CY												
	Select Backfill	810	CY												
	Common Backfill	0	CY												
	Excess	1301	CY												

Harbor Glen 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	
	LF	FT	IN	IN	FT	CY	IN	%	IN	CY	CY	CY	CY	CY	
III.- ph1R	WATER AND ELECTRIC AT TREATMENT AREA														
	4" PVC water main (between bend at station 0+00 along Harbor Glen Drive and pump station) NOTE: Figure 1 shows this pipe to be DIP, however site plans indicate PVC pipe. We assume site plans correct.	989	6.0	4"	12.0"	2.33	512	6"	100%	12"	153	3	356	0	512
	3" diameter Electric Service to pump station (between meter at Glen Road and pump station) NOTE: Coordinate with Glen Light and Power to determine if service will be underground or overhead. We assume service underground per site plans.	756	4.0	3"	12.0"	2.25	252	6"	100%	12"	109	1	142	0	252
	↑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	764	CY				764				262	4	498	0	764
	Bedding	262	CY												
	Select Backfill	498	CY												
	Common Backfill	0	CY												
	Excess	764	CY												
IV.- ph1R	STORM PIPE EXCAVATION														
	12" HDPE (0'-4' deep) in pavement	295	4.0	12"	12.0"	3.00	131	6"	100%	12"	73	9	49	0	131
	12" HDPE (4'-6' deep) in pavement	192	6.0	12"	12.0"	3.00	128	6"	100%	12"	48	6	74	0	128
	12" HDPE (0'-4' deep) in landscape	402	4.0	12"	12.0"	3.00	179	6"	100%	12"	100	12	0	67	112
	12" HDPE (4'-6' deep) in landscape	192	6.0	12"	12.0"	3.00	128	6"	100%	12"	48	6	0	74	54
	(3) 12" HDPE pipes (4'-6' deep) in pavement	21	6.0	12"	12.0"	7.00	33	6"	100%	12"	12	2	19	0	33
	(3) 12" HDPE pipes (4'-6' deep) in landscape	30	6.0	12"	12.0"	7.00	47	6"	100%	12"	17	3	0	27	20
	↑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	646	CY				646				298	38	142	168	478
	Bedding	298	CY												
	Select Backfill	142	CY												
	Common Backfill	168	CY												
	Excess	478	CY												
V.- ph1R	MISCELLANEOUS UTILITIES EXCAVATION														
	Trenching for electric service	1844	4.0	2"	12.0"	2.17	593	6"	100%	12"	246	1	0	346	247
	↑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	593	CY				593				246	1	0	346	247
	Bedding	246	CY												
	Select Backfill	0	CY												
	Common Backfill	346	CY												
	Excess	247	CY												
VI.- ph1R	SITE LIGHTING EXCAVATION														
	Trench for site lights -- approximate length	720	4.0	0"	12.0"	2.00	213	6"	100%	12"	80	0	0	133	80
	↑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	213	CY				213				80	0	0	133	80
	Bedding	80	CY												
	Select Backfill	0	CY												
	Common Backfill	133	CY												
	Excess	80	CY												

	Harbor Glen 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
		LF	FT	IN	IN	FT	CY	IN	%	IN	CY	CY	CY	CY	CY
I.- ph1L	SANITARY SEWER PIPE EXCAVATION														
	4" PVC SDR 35 Lateral (from right of way to unit)	698	6.0	4"	12.0"	2.33	361	6"	100%	12"	108	2	0	251	110
	↑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	361	CY				361				108	2	0	251	110
	Bedding	108	CY												
	Select Backfill	0	CY												
	Common Backfill	251	CY												
	Excess	110	CY												
II.- ph1L	WATER PIPE EXCAVATION														
	Services														
	1-1/4" assume Copper Water Service Pipe (from right of way to unit)	698	4.6	2"	12.0"	2.17	258	6"	100%	12"	93	1	0	164	94
	1" Fire Suppression Lateral NOTE: Not shown on plans, if required assume same length as water laterals.	0	4.0	2"	12.0"	2.17	0	6"	100%	12"	0	0	0	0	0
	↑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	258	CY				258				93	1	0	164	94
	Bedding	93	CY												
	Select Backfill	0	CY												
	Common Backfill	164	CY												
	Excess	94	CY												
III.- ph1L	STORM PIPE EXCAVATION														
	1" Foundation Drain Outlet	901	4.0	4"	12.0"	2.33	311	6"	100%	12"	140	3	0	168	143
	↑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	311	CY				311				140	3	0	168	143
	Bedding	140	CY												
	Select Backfill	0	CY												
	Common Backfill	168	CY												
	Excess	143	CY												
IV.- ph1L	MISCELLANEOUS UTILITIES EXCAVATION														
	Trenching for electric laterals	1113	4.0	2"	12.0"	2.17	358	6"	100%	12"	148	1	0	209	149
	↑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	358	CY				358				148	1	0	209	149
	Bedding	148	CY												
	Select Backfill	0	CY												
	Common Backfill	209	CY												
	Excess	149	CY												
I.- ph2R	SANITARY SEWER PIPE EXCAVATION														
	Services														
	4" PVC SDR 35 Lateral (within right of way)	437	6.0	4"	12.0"	2.33	226	6"	100%	12"	68	1	157	0	226
	Pipe in pavement														
	8" PVC SDR 35 (6'-8' deep)	414	8.0	8"	12.0"	2.67	328	6"	100%	12"	83	5	240	0	328
	8" PVC SDR 35 (8'-10' deep)	264	10.0	8"	18.0"	3.67	359	6"	100%	12"	74	3	282	0	359
	↑	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	913	CY				913				225	9	679	0	913
	Bedding	225	CY												
	Select Backfill	679	CY												
	Common Backfill	0	CY												
	Excess	913	CY												

	Harbor Glen 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
		LF	FT	IN	IN	FT	CY	IN	%	IN	CY	CY	CY	CY	CY
II.- ph2R	WATER PIPE EXCAVATION														
	Services														
	1-1/4" assume Copper Water Service Pipe (within right of way)	437	4.6	2"	12.0"	2.17	162	6"	100%	12"	58	0	104	0	162
	Pipe														
	4" PVC NOTE: Plans 15-17 call for the water main to be 4" PVC, however plan "Figure 1" calls for the water main to be 4" DIP. We assumed PVC to be correct.	971	4.8	4"	12.0"	2.33	402	6"	100%	12"	150	3	249	0	402
	Irrigation Sleeves														
	4" Irrigation Sleeves	680	4.8	4"	12.0"	2.33	282	6"	100%	12"	105	2	175	0	282
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	846					846				313	5	528	0	846
	Bedding	313													
	Select Backfill	528													
	Common Backfill	0													
	Excess	846													
III.- ph2R	STORM PIPE EXCAVATION														
	12" HDPE (0'-4' deep) in pavement	109	4.0	12"	12.0"	3.00	48	6"	100%	12"	27	3	18	0	48
	12" HDPE (4'-6' deep) in pavement	296	6.0	12"	12.0"	3.00	197	6"	100%	12"	74	9	114	0	197
	12" HDPE (0'-4' deep) in landscape	359	4.0	12"	12.0"	3.00	160	6"	100%	12"	89	10	0	61	99
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	405					405				190	22	132	61	344
	Bedding	190													
	Select Backfill	132													
	Common Backfill	61													
	Excess	344													
IV.- ph2R	MISCELLANEOUS UTILITIES EXCAVATION														
	Trenching for electric service	553	4.0	2"	12.0"	2.17	178	6"	100%	12"	74	0	0	104	74
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	178					178				74	0	0	104	74
	Bedding	74													
	Select Backfill	0													
	Common Backfill	104													
	Excess	74													
V.- ph2R	SITE LIGHTING EXCAVATION														
	Trench for site lights -- approximate length	480	4.0	0"	12.0"	2.00	142	6"	100%	12"	53	0	0	89	53
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	142					142				53	0	0	89	53
	Bedding	53													
	Select Backfill	0													
	Common Backfill	89													
	Excess	53													
I.- ph2L	SANITARY SEWER PIPE EXCAVATION														
	4" PVC SDR 35 Lateral (from right of way to unit)	744	6.0	4"	12.0"	2.33	385	6"	100%	12"	115	2	0	268	117
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	385					385				115	2	0	268	117
	Bedding	115													
	Select Backfill	0													
	Common Backfill	268													
	Excess	117													

	Harbor Glen 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
		LF	FT	IN	IN	FT	CY	IN	%	IN	CY	CY	CY	CY	CY
II.- ph2L	WATER PIPE EXCAVATION														
	1-1/4" assume Copper Water Service Pipe (from right of way to unit)	744	4.6	2"	12.0"	2.17	275	6"	100%	12"	99	1	0	175	100
	_ " Fire Suppression Lateral NOTE: Not shown on plans, if required assume same length as water laterals.	0	4.0	2"	12.0"	2.17	0	6"	100%	12"	0	0	0	0	0
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	275	CY				275				99	1	0	175	100
	Bedding	99	CY												
	Select Backfill	0	CY												
	Common Backfill	175	CY												
	Excess	100	CY												
III.- ph2L	STORM PIPE EXCAVATION														
	_ " Foundation Drain Outlet	664	4.0	4"	12.0"	2.33	229	6"	100%	12"	103	2	0	124	105
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	229	CY				229				103	2	0	124	105
	Bedding	103	CY												
	Select Backfill	0	CY												
	Common Backfill	124	CY												
	Excess	105	CY												
IV.- ph2L	MISCELLANEOUS UTILITIES EXCAVATION														
	Trenching for electric laterals	1453	4.0	2"	12.0"	2.17	467	6"	100%	12"	193	1	0	273	194
	î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	0	0	0
	Excavation	467	CY				467				193	1	0	273	194
	Bedding	193	CY												
	Select Backfill	0	CY												
	Common Backfill	273	CY												
	Excess	194	CY												

		STATIONS								TOTAL
Ref	Description	From	To	Length	Width	Radius	Count	Add	Deduct	AREA (SF)
Phase 1 Pavement:										
p. 6	Arbor Glen Drive	0+00.00	11+15.52	1115.52	18'	r = 25'	2	260	0	20,608
p. 6	Arbor Glen Drive	0+00.00	0+00.00	0.00	0'	r = 35'	2	0	0	527
p. 6	Heather Lane	8+00.00	13+00.00	500.00	18'	r = 0'	0	0	0	9,000
p. 0		0+00.00	0+00.00	0.00	0'	r = 0'	0	0	0	0
				1615.52						30,135
Phase 2 Pavement:										
p. 6	Heather Lane	0+00.00	8+00.00	800.00	18'	r = 25'	2	260	0	14,929
p. 7	Heather Lane	13+00.00	15+75.24	275.24	18'	r = 25'	2	2,160	0	7,383
p. 0		0+00.00	0+00.00	0.00	0'	r = 0'	0	0	0	0
				1075.24						22,312

sheet	WALL LENGTH		ELEVATIONS			WALL HEIGHT			FACE	CUT/FILL DEPTHS			EXCAVATION			COMMON BACKFILL			
	station	length	top of wall	bottom of wall	existing ground	above ground	bury	Total height	Face area	Cut or fill	depth of cut	depth of fill	from face	side-slope	Volume	wall thick	stone thick	Volume	
		(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(SF)	(TEXT)	(FT)	(FT)	(FT)	(FT)	(CY)	(IN)	(IN)	(CY)	
										<i>(including bury)</i>			<i>(within excavated area only)</i>						
Harbor Glen Homes										This takeoff has been prepared by <i>Walsh Estimating Service</i> , 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."									
Sample																			
Prepared: 5/25/2007																			
Wall Location: No. 1																			
p. 2	0+00	0.00	242.50	240.00	238.00	2.50	2.00	4.50	0.00	Fill	0.00	0.00	3.00	1.5H:1V	0.00	24"	12"	0.00	
	0+16	16.00	242.67	238.00	237.71	4.67	2.00	6.67	89.36	Cut	1.71	0.00	3.00	1.5H:1V	1.84	24"	12"	0.32	
	0+31	15.00	242.83	238.00	237.44	4.83	2.00	6.83	101.25	Cut	1.44	0.00	3.00	1.5H:1V	3.66	24"	12"	1.04	
	0+47	16.00	243.00	240.00	237.16	3.00	2.00	5.00	94.64	Fill	0.00	0.84	3.00	1.5H:1V	1.51	24"	12"	0.23	
	0+56	9.00	243.30	242.00	237.00	1.30	2.00	3.30	37.35	Fill	0.00	3.00	3.00	1.5H:1V	0.00	24"	12"	0.00	
		56.00				5.77	avg. height		323						7			2	
Wall Location: No. 2																			
p. 2	0+00	0.00	243.70	242.00	236.75	1.70	2.00	3.70	0.00	Fill	0.00	3.25	3.00	1.5H:1V	0.00	24"	12"	0.00	
	0+11	11.00	243.82	240.00	236.75	3.82	2.00	5.82	52.36	Fill	0.00	1.25	3.00	1.5H:1V	0.00	24"	12"	0.00	
	0+27	16.00	244.00	239.00	236.00	5.00	2.00	7.00	102.56	Fill	0.00	1.00	3.00	1.5H:1V	0.00	24"	12"	0.00	
	0+42	15.00	244.23	240.00	236.00	4.23	2.00	6.23	99.23	Fill	0.00	2.00	3.00	1.5H:1V	0.00	24"	12"	0.00	
	0+60	18.00	244.50	244.00	236.00	0.50	2.00	2.50	78.57	Fill	0.00	6.00	3.00	1.5H:1V	0.00	24"	12"	0.00	
		60.00				5.55	avg. height		333						0			0	

sheet	WALL LENGTH		ELEVATIONS			WALL HEIGHT			FACE	CUT/FILL DEPTHS			EXCAVATION			COMMON BACKFILL		
	station	length	top of wall	bottom of wall	existing ground	above ground	bury	Total height	Face area	Cut or fill	depth of cut	depth of fill	from face	side-slope	Volume	wall thick	stone thick	Volume
		(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(SF)	(TEXT)	(FT)	(FT)	(FT)	(FT)	(CY)	(IN)	(IN)	(CY)
Wall Location: No. 3																		
p. 3	0+00	0.00	240.00	239.00	239.00	1.00	2.00	3.00	0.00	Cut	2.00	0.00	3.00	2.0H:1V	0.00	24"	12"	0.00
	0+13	13.00	239.75	238.00	238.00	1.75	2.00	3.75	43.88	Cut	2.00	0.00	3.00	2.0H:1V	4.81	24"	12"	1.92
	0+29	16.00	239.43	236.00	236.00	3.43	2.00	5.43	73.44	Cut	2.00	0.00	3.00	2.0H:1V	5.93	24"	12"	2.37
	0+51	22.00	239.00	234.00	234.00	5.00	2.00	7.00	136.73	Cut	2.00	0.00	3.00	2.0H:1V	8.15	24"	12"	3.26
	0+69	18.00	239.53	234.00	234.00	5.53	2.00	7.53	130.77	Cut	2.00	0.00	3.00	2.0H:1V	6.67	24"	12"	2.67
	0+85	16.00	240.00	234.57	234.57	5.43	2.00	7.43	119.68	Cut	2.00	0.00	3.00	2.0H:1V	5.93	24"	12"	2.37
	1+25	40.00	240.78	236.00	236.00	4.78	2.00	6.78	284.20	Cut	2.00	0.00	3.00	2.0H:1V	14.81	24"	12"	5.92
	1+36	11.00	241.00	238.00	238.44	3.00	2.00	5.00	64.79	Cut	2.44	0.00	3.00	2.0H:1V	4.72	24"	12"	2.01
	1+43	7.00	241.20	240.00	240.00	1.20	2.00	3.20	28.70	Cut	2.00	0.00	3.00	2.0H:1V	3.00	24"	12"	1.27
		143.00				6.17	avg. height		882						54			22
Wall Location: No. 4																		
p. 3	0+00	0.00	239.90	238.00	238.00	1.90	2.00	3.90	0.00	Cut	2.00	0.00	3.00	2.0H:1V	0.00	24"	12"	0.00
	0+12	12.00	239.60	236.00	236.00	3.60	2.00	5.60	57.00	Cut	2.00	0.00	3.00	2.0H:1V	4.44	24"	12"	1.77
	0+36	24.00	239.00	234.00	234.00	5.00	2.00	7.00	151.20	Cut	2.00	0.00	3.00	2.0H:1V	8.89	24"	12"	3.56
	0+74	38.00	240.00	233.54	233.54	6.46	2.00	8.46	293.74	Cut	2.00	0.00	3.00	2.0H:1V	14.07	24"	12"	5.63
	1+18	44.00	240.83	233.00	233.00	7.83	2.00	9.83	402.38	Cut	2.00	0.00	3.00	2.0H:1V	16.30	24"	12"	6.52
	1+27	9.00	241.00	236.00	234.00	5.00	2.00	7.00	75.74	Fill	0.00	0.00	3.00	2.0H:1V	1.33	24"	12"	0.33
	1+40	13.00	241.50	240.00	236.00	1.50	2.00	3.50	68.25	Fill	0.00	2.00	3.00	2.0H:1V	0.00	24"	12"	0.00
		140.00				7.49	avg. height		1,048						45			18
TOTALS =																		
		399.00				6.48	avg. height		2,586						106			42