

# Academic Hall

## Avenue M

### University Town, New Jersey

Prepared: 4/12/2017

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:**

**Contractor**

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	<b>Academic Hall</b>				
	<b>Avenue M</b>				
	<b>University Town, New Jersey</b>				
	<b>Prepared: 4/12/2017</b>				
	<b>Walsh Estimating Job No. 217154</b>				
<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>"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."</i></p>					
	<b>NOTES:</b>				
	<b>1. Specifications have not been reviewed.</b>				
	<b>2. Pavement and Landscape areas from earthwork are not to be used for exact quantities (e.g. curbed islands and sidewalks are included within pavement/landscape surface areas)</b>				
	<b>3. Earthwork File Name(s): Academic Hall (Sect A1-A3)</b>				
	<b>4. Length/Area File Name(s): Academic Hall</b>				
	<b>5. Addendum included - Addendum 1</b>				
	<b>6. Prices are BUDGET ONLY and need to be verified with your vendors, sub contractors and company requirements.</b>				
<b>GC.</b>	<b>GENERAL CONDITIONS</b>				
	Bonding and Insurance	LS	1		
	Mobilization / Demobilization	LS	1		
	Surveys, Stake Out and Bench Marks	LS	1		
	Site Safety and Security	LS	1		
	Traffic Control Measures	LS	1		
	Site Cleanliness and Debris removal	LS	1		
	Other Conditions	LS	1		
	↑	↑			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>I.</b>	<b>EROSION AND SEDIMENT CONTROL</b>				
	Construction Entrance Pad, 6" thick	CY	37	\$35.00	\$1,295.00
	Filter Fabric for construction entrance pad	SY	222	\$2.25	\$499.50
	Inlet Filters, Silt Sack	EA	8	\$225.00	\$1,800.00
	Inlet Filters, wood frame with stone filter	EA	2	\$175.00	\$350.00
	Silt Fence, 2' high	LF	2,689	\$2.25	\$6,050.25
	Snow Construction Fence, 6' high	LF	1,000	\$2.75	\$2,750.00
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Subtotal	\$12,744.75				
<b>II.</b>	<b>SITE CLEARING AND DEMOLITION</b>				
	Remove Landscape and Planters	SF	3,000	\$0.10	\$300.00
	Clear, Grub and Dispose Trees and Stumps	AC	1.31	\$6,325.00	\$8,285.75
	Clear, Grub and Dispose Individual Trees and Stumps, not within mass clearing area	EA	2	\$1,100.00	\$2,200.00
	Remove Light Fixtures	EA	2	\$275.00	\$550.00
	Cap, Grout, and Abandon existing 15" RCP (4'-6') deep	EA	1	\$150.00	\$150.00
	Remove Miscellaneous Sign	EA	1	\$30.00	\$30.00
	Remove and Cap Existing Well	EA	2	\$275.00	\$550.00
	Remove and Relocate Electric Box and Conduits <b>NOTE: Coordinate with Electric Company.</b>	EA	1	not priced	
	Remove Belgian Block Curb	LF	507	\$2.35	\$1,191.45
	Remove Guiderail	LF	90	\$5.50	\$495.00
	Remove Chain Link Fence	LF	250	\$3.75	\$937.50
	Remove Split Rail Fence	LF	251	\$1.50	\$376.50
	Remove and Restore Split Rail Fence, as required	LF	267	\$10.50	\$2,803.50
	Remove Shed	SF	109	\$2.25	\$245.25
	Remove Gravel Areas	SY	2,003		
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Subtotal	\$18,114.95				

	ITEM	UNIT	QUANT	PRICE	AMOUNT
III.	<b>EXCAVATION (All volumes are "Raw" -- no assumptions for swell or compaction)</b>				
	DISTURBANCE AREA	SF	119,709		
	Disturbance Area, Acres	Acre	2.75		
	î	î			
	Strip Topsoil, 6" thick	BCY	1,893	\$2.15	\$4,069.95
	*****				
	<b>SUBGRADE ASSUMPTIONS:</b>				
	<i>Underground Basin</i>	<i>elev. 29.10'</i>			
	<i>Building Areas</i>	<i>elev. 37.18'</i>			
	<i>Landscape Areas</i>	<i>0.50'</i>			
	<i>Pavement Areas</i>	<i>1.00'</i>			
	<i>Gravel Repair Area</i>	<i>0.50'</i>			
	<i>Concrete Sidewalk</i>	<i>0.67'</i>			
	*****				
	<b>UNCLASSIFIED CUT:</b>				
	Underground Basin	BCY	2,191	\$2.35	\$5,148.85
	Building Areas	BCY	554	\$2.35	\$1,301.90
	Landscape Areas	BCY	1,633	\$2.35	\$3,837.55
	Pavement Areas	BCY	2,703	\$2.35	\$6,352.05
	Gravel Repair Area	BCY	13	\$2.35	\$30.55
	Concrete Sidewalk	BCY	415	\$2.35	\$975.25
	<b>TOTAL CUT =</b>	<b>BCY</b>	<b>7,509</b>		
	<b>UNCLASSIFIED FILL:</b>				
	Underground Basin	BCY			
	Building Areas	BCY	1,609	\$1.85	\$2,976.65
	Landscape Areas	BCY	1,676	\$1.85	\$3,100.60
	Pavement Areas	BCY	1,025	\$1.85	\$1,896.25
	Gravel Repair Area	BCY			
	Concrete Sidewalk	BCY	644	\$1.85	\$1,191.40
	<b>TOTAL FILL =</b>	<b>BCY</b>	<b>4,954</b>		
	*****				
	<b>UNCLASSIFIED EXCESS (BORROW) =</b>	<b>BCY</b>	<b>2,555</b>		

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	*****				
	<b>OVERALL UNCLASSIFIED SUMMARY:</b>				
	Unclassified Excess <i>(Borrow)</i>	BCY	2,555		
	Footing and Wall Excavation Excess	BCY	30		
	Pipe Trench Excess	BCY	1,060		
	<b>TOTAL EXCESS (BORROW) =</b>	<b>BCY</b>	<b>3,645</b>	\$2.85	\$10,388.25
	<b>NOTE:</b> Dispose within one mile on campus.				
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	<b>TOPSOIL SUMMARY:</b>				
	Strip Volume	BCY	1,893		
	Required Volume, 6" thick	BCY	660		
	<b>EXCESS (BORROW) TOPSOIL =</b>	<b>BCY</b>	<b>1,233</b>	\$2.85	\$3,514.05
	↑	↑			
Subtotal	\$44,783.30				
<b>IV.</b>	<b>GRADING AREAS</b>				
<b>Important</b>	<b>NOTE:</b> Pavement and Landscape areas from earth 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>				
	Underground Basin	SY	1,518	\$0.90	\$1,366.20
	Building Areas	SY	2,857	\$0.90	\$2,571.30
	Landscape Areas	SY	4,048	\$0.90	\$3,643.20
	Pavement Areas	SY	3,852	\$0.90	\$3,466.80
	Gravel Repair Area	SY	93	\$0.90	\$83.70
	Concrete Sidewalk	SY	932	\$0.90	\$838.80
	<b>Total =</b>	<b>SY</b>	<b>13,300</b>		
	<i>check</i>	<i>SY</i>	<i>13,301</i>		
	↑	↑			
Subtotal	\$11,970.00				
<b>V.</b>	<b>TOPSOIL REDISTRIBUTION AREA</b>				
	Topsoil Redistribution	SY	3,960	\$2.75	\$10,890.00
	Seed and Mulch	SY	3,960	\$1.40	\$5,544.00
	Restoration for pipe in existing landscape	LF	382	\$3.30	\$1,260.60
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Subtotal	\$17,694.60				

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>VI.</b>	<b>BUILDING EXCAVATION</b>				
	Building Area (for topsoil redistribution reference)	SF	25,795		
	î	î			
Subtotal					
<b>VII.</b>	<b>KEYSTONE RETAINING WALLS</b>				
	Wall length	LF	469		
	Excavation	CY	40	\$2.35	\$94.00
	Backfill	CY	10	\$2.00	\$20.00
	Excess (See Mass Earthwork Overall Summary)	CY	30		
	Face Area, 3.7' average height including 1' bury	SF	1,723	\$23.00	\$39,629.00
	Geogrid	SY			
	Stone behind wall, 12" thick	CY	64	\$36.25	\$2,320.00
	Drainage Pipe, 4" dia.	LF	469	\$5.00	\$2,345.00
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Subtotal	\$44,408.00				
<b>VIII.</b>	<b>SANITARY SEWER</b>				
	<b>Pipe Excavation and Bedding</b>				
	Excavation	CY	270		
	AASHTO No. 8 Bedding, assume 6" thick and 12" cover	CY	50	\$37.50	\$1,875.00
	Select Backfill	CY	40	\$31.50	\$1,260.00
	Common Backfill	CY	190		
	Excess (See Mass Earthwork Overall Summary)	CY	80		
	<b>Pipe</b>				
	4" Sch 80 PVC Lateral (8'-10' deep)	LF	59	\$40.70	\$2,401.30
	4" Sch 80 PVC Lateral in existing landscape (8'-10' deep)	LF	24	\$40.70	\$976.80
	4" Sch 80 PVC Lateral in existing pavement (8'-10' deep)	LF	39	\$46.60	\$1,817.40
	4" Sch 80 PVC Lateral in existing landscape (10'-12' deep)	LF	83	\$54.60	\$4,531.80
	<b>Total =</b>	<b>LF</b>	<b>205</b>		
	<i>pipe check</i>		<i>205</i>		

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	<b>Structures</b>				
	Manhole in existing landscape (8'-10' deep)	EA	1	\$3,750.00	\$3,750.00
	Connect to existing manhole in existing landscape with 4" PVC (12'-14') deep	EA	1	\$1,250.00	\$1,250.00
	↑	↑			
Subtotal	\$17,862.30				
<b>IX.</b>	<b>WATER</b>				
	<b>Pipe Excavation and Bedding</b>				
	Excavation	CY	400		
	Bedding, assume 6" thick and 12" cover	CY	150	\$31.50	\$4,725.00
	Select Backfill	CY	10	\$31.50	\$315.00
	Common Backfill	CY	230		
	Excess (See Mass Earthwork Overall Summary)	CY	160		
	<b>Pipe</b>				
	4" DIP Domestic <b>NOTE: Assume DIP.</b>	LF	351	\$45.10	\$15,830.10
	4" DIP Domestic in existing landscape <b>NOTE: Assume DIP.</b>	LF	47	\$45.10	\$2,119.70
	4" DIP Domestic in existing pavement <b>NOTE: Assume DIP. Only to limit shown on plans.</b>	LF	16	\$47.30	\$756.80
	6" DIP Fire Service	LF	413	\$46.90	\$19,369.70
	6" DIP Fire Service in existing landscape	LF	54	\$46.90	\$2,532.60
	6" DIP Fire Service in existing pavement <b>NOTE: Only to limit shown on plans.</b>	LF	17	\$49.10	\$834.70
	<b>Total =</b>	<b>LF</b>	<b>898</b>		
	<i>pipe check</i>		<i>898</i>		
	<b>Fittings</b>				
	4" 45 degree Bend	EA	3	\$365.00	\$1,095.00
	6" 45 degree Bend	EA	3	\$400.00	\$1,200.00
	6" x 6" x 6" Tee	EA	1	\$550.00	\$550.00
	<b>Valves and Hydrants</b>				
	4" Gate Valve and Box	EA	2	\$1,050.00	\$2,100.00
	6" Gate Valve and Box	EA	4	\$1,350.00	\$5,400.00
	6" Reduced Pressure Zone Assembly, including vertical risers	EA	1	\$4,000.00	\$4,000.00
	16" x 16" x 6" Tapping Sleeve and Valve	EA	1	\$13,750.00	\$13,750.00
	16" x 16" x 4" Tapping Sleeve and Valve	EA	1	\$13,750.00	\$13,750.00
	Wet Tap	EA	2	\$1,375.00	\$2,750.00
	Mueller Fire Hydrants	EA	2	\$2,900.00	\$5,800.00

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	<b>Water Meter Pit</b>				
	Furnish and Install Water Meter Pit, 8'-0" square x 6'-0" high I.D. with 36" square Bilco door	EA	1	\$11,000.00	\$11,000.00
	Furnish and Install 4" x 4" x 4" flanged Tee	EA	2	\$285.00	\$570.00
	Furnish and Install 4" Test Assembly	EA	1	\$285.00	\$285.00
	Furnish and Install 4" x 12"+/- spool piece, flange x flange	EA	2	\$285.00	\$570.00
	Furnish and Install 4" x 48"+/- spool piece, flange x flange	EA	1	\$400.00	\$400.00
	Furnish and Install 4" 90 degree Bend, flange x flange	EA	2	\$225.00	\$450.00
	Furnish and Install 4" Strainer	EA	1	\$500.00	\$500.00
	Install 4" Gate Valves furnished by NJAW, flange x flange	EA	3	\$100.00	\$300.00
	Install 4" Compound Meter furnished by NJAW, flange x flange	EA	1	\$110.00	\$110.00
	Furnish and Install 4" Uni-Flange	EA	2	\$100.00	\$200.00
	Furnish and Install 6" Uni-Flange	EA	2	\$110.00	\$220.00
	Install 6" Gate Valves furnished by NJAW, flange x flange	EA	3	\$110.00	\$330.00
	Install 6" Assembly, flange x flange <b>NOTE:</b> <i>Assembly is not called out as to detail or responsibility.</i>	EA	1	not priced	
	<b>Hot Box</b>				
	Aluminum Insulated Hot Box, 43" x 121"	EA	1	\$11,000.00	\$11,000.00
	<b>Concrete Encasement</b>				
	<b>NOTE:</b> Per detail on sheet C6.51. None shown in plan view.				
	Concrete Encasement	LF	20		
	<b>Testing and Sterilization</b>				
	Flushing and Testing	LF	898	\$1.75	\$1,571.50
	Chlorination	LF	898	\$0.50	\$449.00
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Subtotal	\$124,834.10				



	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>X.</b>	<b>STORM SYSTEM</b>				
	<b>Pipe Excavation and Bedding</b>				
	Excavation	CY	800		
	Bedding, assume 6" thick and 12" cover	CY	340	\$31.50	\$10,710.00
	Select Backfill	CY	90	\$31.50	\$2,835.00
	Common Backfill	CY	320		
	Excess (See Mass Earthwork Overall Summary)	CY	480		
	<b>Fittings</b>				
	Assume 6" or 8" Downspout Assembly including reducer, vertical bend, riser and adapter	EA	12	\$530.00	\$6,360.00
	10" x 10" x 10" Wye and Bend	EA	3	\$255.00	\$765.00
	10" x 10" x 10" Tee	EA	11	\$175.00	\$1,925.00
	10" Cleanout Assembly in landscape	EA	4	\$430.00	\$1,720.00
	10" 45 degree Bend	EA	8	\$115.00	\$920.00
	10" 90 degree Bend	EA	1	\$115.00	\$115.00
	12" x 10" Reducer	EA	1	\$170.00	\$170.00
	48" x 24" HDPE Eccentric Reducer at outlet structure	EA	2	\$1,425.00	\$2,850.00
	<b>Pipe</b>				
	6" HDPE in existing pavement (0'-4' deep)	LF	20	\$27.20	\$544.00
	10" HDPE (0'-4' deep) <b>NOTE: Connection to inline drains.</b>	LF	85	\$30.60	\$2,601.00
	10" HDPE (0'-4' deep) <b>NOTE: One run connects to 30" underground basin riser and one run connects to 48" underground basin pipe.</b>	LF	31	\$30.60	\$948.60
	10" HDPE Roof Drain (4'-6' deep)	LF	729	\$33.00	\$24,057.00
	12" HDPE Roof Drain (4'-6' deep)	LF	17	\$33.30	\$566.10
	15" HDPE in existing landscape (0'-4' deep)	LF	6	\$36.20	\$217.20
	15" HDPE in existing pavement (0'-4' deep)	LF	25	\$39.10	\$977.50
	15" HDPE (4'-6' deep)	LF	87	\$39.10	\$3,401.70
	15" in existing landscape HDPE (4'-6' deep)	LF	18	\$39.10	\$703.80
	15" HDPE in existing pavement (4'-6' deep)	LF	38	\$42.70	\$1,622.60
	18" HDPE (0'-4' deep)	LF	52	\$42.90	\$2,230.80
	24" HDPE (0'-4' deep)	LF	174	\$48.20	\$8,386.80
	24" HDPE (4'-6' deep) <b>NOTE: Connect to 48" underground basin pipe.</b>	LF	21	\$51.80	\$1,087.80
	<b>Total =</b>	<b>LF</b>	<b>1,303</b>		
	<i>pipe check</i>		<i>1,303</i>		

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	<b>Structures</b>				
	Nyloplast Inline Drain with Integrated Ductile Iron Pedestrian Frame and Grate, 4" diameter (0'-2' deep)	EA	4	\$870.00	\$3,480.00
	Doghouse Inlets Type "B" over existing 15" RCP (0'-4' deep)	EA	1	\$3,030.00	\$3,030.00
	Inlets Type "B" (0'-4' deep)	EA	3	\$2,590.00	\$7,770.00
	Inlets Type "B" (4'-6' deep)	EA	1	\$2,890.00	\$2,890.00
	Inlets Type "B" (6'-8' deep)	EA	1	\$3,250.00	\$3,250.00
	Manholes, 4' diameter (4'-6' deep)	EA	1	\$2,810.00	\$2,810.00
	Manholes in existing pavement, 4' diameter (0'-4' deep)	EA	1	\$2,630.00	\$2,630.00
	Diversion Manholes in existing landscape, 4' diameter (0'-4' deep)	EA	1	\$2,860.00	\$2,860.00
	Contech Jellyfish Water Quality Manholes JF4-2-1 in existing pavement, 4' diameter (10.83' deep) including 3' sump	EA	1	\$32,300.00	\$32,300.00
	<b>Total =</b>	<b>EA</b>	<b>14</b>		
	<i>structure check</i>		<i>14</i>		
	<b>Connect to Existing and Convert</b>				
	Connect to existing manhole with 15" pipe in existing landscape	EA	2	\$1,000.00	\$2,000.00
	Connect to existing inlet with 18" pipe and convert to manhole	EA	1	\$2,350.00	\$2,350.00
	<b>Outlet Structure</b>				
	Manhole Outlet Structure, 6'-0" diameter with 7" walls, 6" thick x 4'-0" high interior weir wall, and Campbell Pattern #1012A 30" manhole frame and cover (7.3' deep)	EA	1	\$5,150.00	\$5,150.00

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	<b>Underground Basin</b>				
	Area	SF	13,750		
	Perimeter	LF	549		
	Stone Depth	FT	6.75		
	Class I Stone Encasement	CY	2,472	\$35.50	\$87,756.00
	Cleanout Inspection Risers <b>NOTE: Not sure how many or if required.</b>	EA			
	30" HDPE Riser with 10" stub for pipe connection and Campbell No. 1739 traffic frame and cover, 2'+/- high	EA	1	\$1,600.00	\$1,600.00
	10" Stub welded to 48" for pipe connection	EA	1	\$100.00	\$100.00
	24" Stub welded to 48" for pipe connection	EA	1	\$135.00	\$135.00
	48" 90 Degree Bend	EA	2	\$1,550.00	\$3,100.00
	48" 90 Degree Bend with 30" fabricated riser stub	EA	1	\$1,725.00	\$1,725.00
	48" x 48" x 48" Double Tee	EA	8	\$2,650.00	\$21,200.00
	48" HDPE Pipe, 10 runs	LF	1,950	\$72.30	\$140,985.00
Subtotal	\$402,835.90				
<b>XI.</b>	<b>TRENCHING FOR MISCELLANEOUS UTILITIES</b>				
	<b>Pipe Excavation and Bedding</b>				
	Excavation	CY	400		
	Bedding, assume 6" thick and 12" cover	CY	160	\$31.50	\$5,040.00
	Select Backfill	CY			
	Common Backfill	CY	230		
	Excess (See Mass Earthwork Overall Summary)	CY	170		
	<b>Trenching</b>				
	Trenching for gas mains <b>NOTE: Elizabethtown Gas will provide service to the meter location.</b>	LF	326	not priced	
	Trenching for gas mains in existing landscape	LF	67	not priced	
	Trenching for gas mains in existing pavement	LF	11	not priced	
	Trenching for underground electric service	LF	439	\$12.00	\$5,268.00
	Trenching for underground electric service in existing landscape	LF	83	\$12.00	\$996.00
	Trenching and (2) 4" PVC Conduits for underground fiber optics <b>NOTE: Only to limit shown on plans.</b>	LF	469	\$15.00	\$7,035.00
	<b>Total =</b>	<b>LF</b>	<b>1,395</b>		
Subtotal	\$18,339.00				

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>XII.</b>	<b>CONCRETE</b>				
	<b>Curb</b>				
	Belgian Block Curb	LF	2,451	\$26.15	\$64,093.65
	<b>Sidewalk</b>				
	Truncated Dome Handicap Marker	SF	17	\$46.75	\$794.75
	Class B 4,000 PSI 3%-5% Air Entrained Broom Finish Concrete, 4" thick	SF	4,591	\$6.05	\$27,775.55
	AASHTO #57 Stone Base, 4" thick <b>NOTE: There is a detail on sheet C6.01 showing 4" of sand and gravel at curbed sidewalk. However we assume all base to be stone.</b>	SF	4,591	\$0.70	\$3,213.70
	<b>Brick Pavers</b>				
	Fine Grade and Compact Subgrade	SF	3,751		
	3/4" Crushed Gravel Base, 4" thick	SF	3,751		
	Mirafi 500X Fabric Wrap	SF	7,877		
	Sand Bedding Course, 1-1/2" thick	SF	3,751		
	8" x 4" x 2-1/4" Brick Pavers	SF	3,751	\$19.25	\$72,206.75
	Powerloc Jointing Sand	SF	3,751		
	<b>Cobble Stone Path</b>				
	Fine Grade and Compact Subgrade	SY	246		
	3" D50 River Bed Stone, 6" thick	SY	246	\$12.00	\$2,952.00
	<b>Dumpster Pad</b>				
	WW Reinforced Class B 4,000 PSI 5%-7% Air Entrained Concrete, 8" thick	SF	176	\$8.80	\$1,548.80
	Stone Base, 6" thick <b>NOTE: None shown on detail sheet Add1.C601.1, assume required as per concrete pad detail on sheet C6.01.</b>	SF	176	\$1.10	\$193.60
	<b>Transformer Pad</b>				
	WW Reinforced Class B 4,000 PSI 5%-7% Air Entrained Concrete, 8" thick	SF	100	\$8.80	\$880.00
	Stone Base, 6" thick	SF	100	\$1.10	\$110.00

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	<b>Hot Box Concrete Pad</b>				
	WWM Reinforced 4,000 PSI Concrete, 12" minimum thick	SF	81	\$12.10	\$980.10
	3/4" Compacted Stone Base, 12" minimum thick	SF	81	\$2.20	\$178.20
	<b>Bollards</b>				
	8" Concrete Filled Galvanized Sch 40 Steel Pipe with 3'-0" bury and 40" exposed, set in 18" diameter x 36" deep concrete base and painted yellow, transformer area	EA	10	\$1,875.00	\$18,750.00
	8" Concrete Filled Galvanized Sch 40 Steel Pipe with 3'-0" bury and 40" exposed, set in 18" diameter x 36" deep concrete base and painted yellow, trash area	EA	4	\$1,875.00	\$7,500.00
	↑	↑			
Subtotal	\$201,177.10				
<b>XIII.</b>	<b>PAVEMENT</b>				
	Fine Grade and Compact Subgrade	SY	5,266	\$1.15	\$6,055.90
	8 oz Non Woven Geotextile	SY	5,266	\$2.25	\$11,848.50
	DGA Stone Base Course, 6" thick	SY	5,266	\$20.00	\$105,320.00
	Prime Coat, 0.25 gal per sy	SY	5,266	\$4.00	\$21,064.00
	NJDOT Mix 19M64 Hot Mix Asphalt Base Course, 4" thick	SY	5,266	\$23.00	\$121,118.00
	Tack Coat, 0.10 gal per sy	SY	5,266	\$2.50	\$13,165.00
	NJDOT Mix 9.5M64 Hot Mix Asphalt Surface Course, 2" thick	SY	5,266	\$14.00	\$73,724.00
	Endurable Polymer Cement Slurry Surfacing or approved equal, 1/8"-3/16" thick	SY	860	\$50.00	\$43,000.00
	↑	↑			
Subtotal	\$395,295.40				

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>XIV.</b>	<b>PAVING REMOVAL AND REPLACEMENT FOR UTILITIES</b>				
	<b>Temporary Pavement</b>				
	Install and Remove Temporary Paving	SY	97		
	<b>Existing Street Pavement</b>				
	<i>NOTE: Assume same sectional thickness as proposed site pavement.</i>				
	Saw Cut Pavement, full depth	LF	292	\$2.50	\$730.00
	Saw Cut Pavement, trim back	LF	292	\$2.50	\$730.00
	Pavement Removal, Assume 6' wide	SY	97	\$7.50	\$727.50
	Fine Grade and Compact Subgrade	SY	97	\$1.15	\$111.55
	8 oz Non Woven Geotextile	SY	97	\$2.25	\$218.25
	DGA Stone Base Course, 6" thick	SY	97	\$20.00	\$1,940.00
	Prime Coat, 0.25 gal per sy	SY	97	\$4.00	\$388.00
	NJDOT Mix 19M64 Hot Mix Asphalt Base Course, 4" thick	SY	97	\$23.00	\$2,231.00
	Tack Coat, 0.10 gal per sy	SY	97	\$2.50	\$242.50
	NJDOT Mix 9.5M64 Hot Mix Asphalt Surface Course, 2" thick	SY	97	\$14.00	\$1,358.00
	î	î			
Subtotal	\$8,676.80				
<b>XV.</b>	<b>STRIPING AND SIGNS</b>				
	<b>Striping</b>				
	Striping Parking Spaces	EA	79	\$11.00	\$869.00
	Striping Solid White Lines, 4" wide	LF	33	\$0.40	\$13.20
	Striping Crosshatch Area (including lines and spaces)	SF	1,165	\$1.00	\$1,165.00
	Striping Crosshatch Area Loading Zone (including lines and spaces)	SF	294	\$1.00	\$294.00
	Striping Crosshatch Area Fire Lane (including lines and spaces)	SF	2,094	\$1.00	\$2,094.00
	Striping Directional Arrows	EA	12	\$71.50	\$858.00
	Striping Double Directional Arrows	EA	3	\$110.00	\$330.00
	Striping Handicap Logo	EA	4	\$55.00	\$220.00
	Striping Lettering "STOP"	EA	2	\$55.00	\$110.00
	Striping Lettering "FIRE LANE"	LS	1	\$110.00	\$110.00
	Striping Stop Bar, 24" wide	LF	25	\$4.50	\$112.50

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	<b>Signs</b>				
	Stop Sign (R1-1), 30" x 30"	EA	2	\$300.00	\$600.00
	Double Mounted Stop Sign (R1-1), 30" x 30" and Do Not Enter Sign (R5-1), 30" x 30"	EA	2	\$600.00	\$1,200.00
	Handicap Parking Sign (R7-8), 12" x 18" with Van Accessible (R7-8A), 12" x 6" and Penalty Sign (R7-8P), 10" x 12"	EA	4	\$300.00	\$1,200.00
	No Left Turn Sign (R3-2), 30" x 30"	EA	2	\$300.00	\$600.00
	No Right Turn Sign (R3-1), 30" x 30"	EA	1	\$300.00	\$300.00
	One Way Sign (R6-1R), 36" x 12"	EA	1	\$137.50	\$137.50
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Subtotal	\$10,213.20				
<b>XVI.</b>	<b>FENCE AND GUIDERAIL</b>				
	1" x 6" Board on Board Fence at trash enclosure, 7' high	LF	38	\$52.25	\$1,985.50
	1" x 6" Board on Board Fence Double Gate at trash enclosure, 7' high x 16' wide	EA	1	\$2,200.00	\$2,200.00
	Pressure Treated Wooden Guiderail, 3" x 10" Beam mounted on 6" x 6" posts with 2'-8" exposed and 24" bury set in 18" concrete base	LF	373	\$18.00	\$6,714.00
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Subtotal	\$10,899.50				

	ITEM	UNIT	QUANT	PRICE	AMOUNT
<b>XVII.</b>	<b>LIGHTING EXCAVATION</b>				
	<b>Excavation and Bedding</b>				
	Excavation	CY	410		
	Bedding, assume 6" thick and 12" cover	CY	170	\$31.50	\$5,355.00
	Select Backfill	CY			
	Common Backfill	CY	240		
	Excess (See Mass Earthwork Overall Summary)	CY	170		
	<b>Trenching and Base Excavation</b>				
	Trench for site lights -- approximate length	LF	1,115	\$12.00	\$13,380.00
	Excavate for site bases	EA	14	\$175.00	\$2,450.00
	î	î			
Subtotal	\$21,185.00				
	<b>TOTAL</b>				<b>\$1,361,033.90</b>
<b>D-5.</b>	<b>DEDUCT 5</b>				
	Endurable Polymer Cement Slurry Surfacing or approved equal, 1/8"-3/16" thick	SY	860	(\$50.00)	(\$43,000.00)
	î	î			
Subtotal	(\$43,000.00)				