	ITEM	UNIT	QUANT	PRICE	AMOUNT
	AutoZone Kutztown				
	15106 Your Town				
	Your Township, Your County				
	Prepared: 1/3/2018				
	Walsh Estimating Job No. 217510				

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."

	NOTES:				
	1. Specifications have not been reviewed.				
	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)				
	3. Earthwork File Name(s): 7510 AutoZone Kutztown (Sect A1)				
	4. Length/Area File Name(s): 217510 AutoZone Kutztown PS				
	5. Addendum included - None				
GC.	**GENERAL CONDITIONS**				
	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		
	Î	Î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
I.	**EROSION AND SEDIMENT CONTROL**				
	General Items				
	Construction Entrance Pad, 8" thick	CY	22		
	Filter Fabric for construction entrance pad	SY	100		
	Wash Rack, 18' wide	EA	1		
	Inlet Filters, silt sack	EA	3		
	Compost Silt Sock, 12" diameter	LF	530		
	Compost Silt Sock, 18" diameter	LF	95		
	Temporary R-3 Rip Rap Aprons No. 1, 2 ,3 and 5				
	Area	SY	16		
	Excavation for Rip Rap	CY	4		
	R-3 Volume, 9" thick	CY	4		
	Filter Fabric	SY	16		
	Î	Î			
Subtotal					
II.	**SITE CLEARING AND DEMOLITION**				
	Clear, Grub and Dispose Individual Street Trees and Stumps ***NOTE:*** *Plan does not indicate whether these can moved to new location.*	EA	3		
	Saw Cut Sidewalk	LF	13		
	Saw Cut Parking Lot Aisle Pavement	LF	104		
	Remove Concrete Curb	LF	147		
	Remove Concrete Sidewalk	SF	331		
	Remove Site Pavement	SY	59		
	Î	Î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
III.	**EXCAVATION (All volumes are "Raw" -- no assumptions for swell or compaction)**				
	DISTURBANCE AREA	SF	55,804		
	Disturbance Area, Acres	Acre	1.28		
	Î	Î			
	Strip Topsoil, 6" thick	BCY	1,034		
	*********				
	SUBGRADE ASSUMPTIONS:				
	Landscape Areas	*0.50'*			
	Amended Soils Areas	*1.00'*			
	Pavement Areas	*0.83'& 1.04'*			
	Concrete Pavement Areas	*0.92'& 1.08'*			
	Sidewalk Areas	*0.67'*			
	Building Areas	*elev. 469.83'*			
	Basin Bio Soil Areas	*1.17'*			
	Basin Bottom Areas	*2.00'*			
	*********				
	EARTH CUT:				
	Landscape Areas	BCY	136		
	Amended Soils Areas	BCY	148		
	Pavement Areas	BCY	928		
	Concrete Pavement Areas	BCY	166		
	Sidewalk Areas	BCY	38		
	Building Areas	BCY	98		
	Basin Bio Soil Areas	BCY	575		
	Basin Bottom Areas	BCY	1,353		
	TOTAL EARTH CUT =	**BCY**	**3,442**		
	ROCK CUT:				
	Landscape Areas	BCY			
	Amended Soils Areas	BCY			
	Pavement Areas	BCY	38		
	Concrete Pavement Areas	BCY	5		
	Sidewalk Areas	BCY			
	Building Areas	BCY			

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	Basin Bio Soil Areas	BCY	17		
	Basin Bottom Areas	BCY	124		
	TOTAL ROCK CUT =	**BCY**	**184**		
	UNCLASSIFIED FILL:				
	Landscape Areas	BCY	10		
	Amended Soils Areas	BCY	6		
	Pavement Areas	BCY			
	Concrete Pavement Areas	BCY	6		
	Sidewalk Areas	BCY	1		
	Building Areas	BCY	20		
	Basin Bio Soil Areas	BCY			
	Basin Bottom Areas	BCY			
	TOTAL FILL =	**BCY**	**43**		
	*********				
	UNCLASSIFIED EXCESS (BORROW) =	**BCY**	**3,583**		
	*********				
	OVERALL UNCLASSIFIED SUMMARY:				
	Unclassified Excess (Borrow)	*BCY*	3,583		
	Pipe Trench Excess	*BCY*	260		
	Rip Rap Excess	*BCY*	33		
	TOTAL EXCESS (BORROW) =	***BCY***	**3,876**		
	Î	Î			
	Î	Î			
	TOPSOIL SUMMARY:				
	Strip Volume	BCY	1,034		
	Required Volume, 6" thick ***NOTE:*** *This includes the normal site topsoil and topsoil required for mixing the amended site soils and excludes all topsoil required in the biofiltration basins.*	BCY	260		
	EXCESS (BORROW) TOPSOIL =	**BCY**	**774**		
	Î	Î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
III-1.	**ROCK BLASTING (AND REMOVAL) - If Required (Unit Price)**				
	Pre Blast Survey	LS	1		
	Seismic Monitoring	LS	1		
	Mass Rock Blasting	BCY	184		
	Trench Rock Blasting (0'-6' deep)	LF	400		
	Î	Î			
Subtotal					
IV.	**GRADING AREAS**				
Important	***NOTE:*** *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)				
	Grading Areas				
	Landscape Areas	SY	598		
	Amended Soils Areas	SY	889		
	Pavement Areas	SY	1,898		
	Concrete Pavement Areas	SY	621		
	Sidewalk Areas	SY	173		
	Building Areas	SY	746		
	Basin Bio Soil Areas	SY	574		
	Basin Bottom Areas	SY	702		
	Total =	***SY***	***6,201***		
	check	*SY*	*6,200*		
	Î	Î			
Subtotal					
V.	**TOPSOIL REDISTRIBUTION AREA**				
	Topsoil Redistribution	SY	350		
	Sod ***NOTE:*** *This includes the normal topsoil, amended site soils area and excludes the biofiltration basin slopes and bottoms.*	SF	10,762		
	Sod Spillway	SF	545		
	Amended Soils				
	Area	SF	7,997		
	8" Topsoil blended with 4" certified compost, 8" thick	CY	198		
	4" Certified Compost blended with topsoil, 4" thick	CY	99		
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
VI.	**BUILDING EXCAVATION**				
	Building Area (for topsoil redistribution reference)	SF	6,816		
	Î	Î			
Subtotal					
VII.	**SANITARY SEWER**				
	Pipe Excavation and Bedding				
	Excavation	CY	70		
	Bedding, assume 6" thick and 12" cover	CY	20		
	Select Backfill	CY			
	Common Backfill	CY	50		
	Excess (See Mass Earthwork Overall Summary)	CY	20		
	Service				
	Connect to end of existing lateral stub with 8" x 6" reducer and 6" bend	EA	1		
	6" Cleanout Assembly in landscape with Neenah R-7506 frame and cover set in concrete collar (6'-8' deep)	EA	1		
	6" Cleanout Assembly in bituminous pavement with Neenah R-6400AS frame and cover set in concrete collar (4'-6' deep)	EA	1		
	6" Cleanout Assembly in concrete pavement with Neenah R-6400AS frame and cover (4'-6' deep)	EA	1		
	6" PVC SDR 35 Lateral (6'-8' deep)	LF	26		
	6" PVC SDR 35 Lateral in rock (6'-8' deep)	LF	70		
	Clean and Televise existing 8" PVC downstream to existing manhole	LF	48		
	Î	Î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
VIII.	**WATER**				
	Pipe Excavation and Bedding				
	Excavation	CY	40		
	Bedding, assume 6" thick and 12" cover	CY	10		
	Select Backfill	CY			
	Common Backfill	CY	30		
	Excess (See Mass Earthwork Overall Summary)	CY	10		
	Pipe				
	1" PEX Water Service Pipe	LF	45		
	1" PEX Water Service Pipe to hose bibb at dumpster ***NOTE:*** *Size is assumed.*	LF	55		
	1" PEX Water Service Pipe to hose bibb at dumpster in rock ***NOTE:*** *Size is assumed.*	LF	20		
	Total =	***LF***	***120***		
	Hydrant				
	Hose Bibb Hydrant at dumpster	EA	1		
	Testing and Sterilization				
	Flushing and Testing	LF	120		
	Chlorination	LF	120		
	Î	Î			
Subtotal					
IX.	**STORM SYSTEM**				
	Pipe Excavation and Bedding				
	Excavation	CY	200		
	Bedding, assume 6" thick and 12" cover	CY	110		
	Select Backfill	CY			
	Common Backfill	CY	70		
	Excess (See Mass Earthwork Overall Summary)	CY	130		
	Fittings				
	8" PVC Sch 40 Downspout Assembly including 10" x 8" Tee, 3' of 8" pipe, (2) 45 degree vertical bends, riser and adapter	EA	4		
	10" HDPE Roof Drain Cleanout Assembly including (2) 45 degree bends and H-25 frame and grate in concrete pavement (0'-4' deep)	EA	1		

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	Pipe				
	10" HDPE Watertight Roof Drain (0'-4' deep)	LF	70		
	12" HDPE Watertight (0'-4' deep)	LF	10		
	15" HDPE Watertight (0'-4' deep)	LF	145		
	10" HDPE Watertight Roof Drain in rock (0'-4' deep)	LF	50		
	12" HDPE Watertight in rock (0'-4' deep)	LF	50		
	15" HDPE Watertight in rock (0'-4' deep)	LF	110		
	Total =	***LF***	***435***		
	pipe check		*435*		
	Structures				
	Headwall for 10" Pipe	EA	1		
	Headwall for 12" Pipe	EA	1		
	Headwall for 15" Pipe	EA	1		
	Inlets Type "M" with bicycle safe steel grate (0'-4' deep)	EA	1		
	Inlets Type "C" with bicycle safe steel grate (0'-4' deep)	EA	2		
	Total =	***EA***	***6***		
	Connect to Existing				
	Connect to existing inlet with 15" pipe	EA	1		
	Connect to existing manhole with 15" pipe	EA	1		
	Outlet Structures				
	Outlet Structure No. 1 with (2) 18" x 3" high orifices on either side covered with 21" wide x 5" high x 6" angle frame and No. 3 rebar trash rack and light duty East Jordan Iron Works beehive grate (4.2' high with 2.2' invert set below grade and 2.0' above grade)	EA	1		
	Outlet Structure No. 2 with (2) 18" x 3" high orifices on either side covered with 31" wide x 9" high x 6" angle frame and No. 3 rebar trash rack and light duty East Jordan Iron Works beehive grate (5.2' high with 2.7' invert set below grade and 2.5' above grade)	EA	1		
	Trench Drain				
	Preform Trench Drain, 12" wide open bottom sheet metal to be concrete encased on bottom and sides with heavy duty cast iron grate, available in 4. 5' and 6' sections	LF	27		

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	R-4 Flume Swales No. 1 thru 4				
	Area	SY	52		
	Excavation for Rip Rap	CY	26		
	R-4 Volume, 18" thick	CY	26		
	Filter Fabric	SY	52		
	R-3 Rip Rap Aprons No. 1 thru 5				
	Area	SY	18		
	Excavation for Rip Rap	CY	5		
	R-3 Volume, 9" thick	CY	5		
	Filter Fabric	SY	18		
	R-4 Rip Rap Aprons No. 6				
	Area	SY	4.4		
	Excavation for Rip Rap	CY	2.2		
	R-4 Volume, 18" thick	CY	2.2		
	Filter Fabric	SY	4.4		
	Bio Filtration Basin No. 1				
	Bottom Area	*SF*	*4,408*		
	Bottom Perimeter	LF	270		
	Amended Soils Sideslope Area	*SF*	*2,340*		
	Excavate Key Trench	LF	385		
	Impervious Liner, 60 mil Synthetic or 30 mil XR-5 or equal, including 6' width for key trench ***NOTE:*** *No allowance has been made for waste or overlaps.*	SF	9,870		
	6" Perforated HDPE Underdrain	LF	315		
	6" x 6" x 6" Wye	EA	5		
	6" Terminal Cleanout Assembly with (2) 45 degree bends and Nyloplast cleanout plug	EA	6		
	AASHTO No. 57 Clean Gravel on bottom, 12" thick	CY	163		
	Nonwoven Geotextile Wrap around all sides of gravel layer ***NOTE:*** *5% added for overlap.*	SF	9,540		
	Bottom Biofiltration Soil (50% compost with sand and topsoil mixed prior to placement and certified by Geotechnical Engineer), 12" thick	CY	163		
	Bottom Seed Mix by Ernst, ERNMX-126	SF	4,408		
	3H:1V Slope Biofiltration Soil (50% compost with sand and topsoil mixed prior to placement and certified by Geotechnical Engineer), 14" thick	CY	101		

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	Erosion Control Blanket with permanent seed mix, NAG S75BN	SF	2,340		
	Bio Filtration Basin No. 2				
	Bottom Area	*SF*	*1,914*		
	Bottom Perimeter	LF	309		
	Amended Soils Sideslope Area	*SF*	*3,976*		
	Excavate Key Trench	LF	400		
	Impervious Liner, 60 mil Synthetic or 30 mil XR-5 or equal, including 6' width for key trench ***NOTE:*** *No allowance has been made for waste or overlaps.*	SF	9,150		
	6" Perforated HDPE Underdrain	LF	115		
	6" Terminal Cleanout Assembly with (2) 45 degree bends and Nyloplast cleanout plug	EA	1		
	AASHTO No. 57 Clean Gravel on bottom, 12" thick	CY	71		
	Nonwoven Geotextile Wrap around all sides of gravel layer ***NOTE:*** *5% added for overlap.*	SF	4,344		
	Bottom Biofiltration Soil (50% compost with sand and topsoil mixed prior to placement and certified by Geotechnical Engineer), 12" thick	CY	71		
	Bottom Seed Mix by Ernst, ERNMX-126	SF	1,914		
	3H:1V Slope Biofiltration Soil (50% compost with sand and topsoil mixed prior to placement and certified by Geotechnical Engineer), 14" thick	CY	172		
	Erosion Control Blanket with permanent seed mix, NAG S75BN	SF	3,976		
	Î	Î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
X.	**TRENCHING FOR MISCELLANEOUS UTILITIES**				
	Pipe Excavation and Bedding				
	Excavation	CY	90		
	Bedding, assume 6" thick and 12" cover	CY	40		
	Select Backfill	CY			
	Common Backfill	CY	50		
	Excess (See Mass Earthwork Overall Summary)	CY	40		
	Trenching				
	Trenching for gas mains	LF	40		
	Trenching for gas mains in rock	LF	75		
	Trenching for underground electric service and telephone mains	LF	110		
	Trenching for underground electric service and telephone mains in rock	LF	15		
	Total =	**LF**	**240**		
	Î	Î			
Subtotal					
XI.	**CONCRETE**				
	Curb				
	Concrete Rollover Curb on concrete pavement	LF	144		
	Concrete Rollover Curb at asphalt pavement, 2' 2-1/2" wide gutter x 6" wide x 12" back of curb height	LF	540		
	Township Depressed Concrete Curb, 24" x 8" high	LF	65		
	Full Height Concrete Curb against building, 24" x 9" high	LF	20		
	Township Full Height Concrete Curb, 24" x 9" high	LF	108		
	Building Sidewalk				
	Turn Down Curb, 18" x 8" with 6" exposed	LF	202		
	WWM Reinforced Concrete, 4" thick	SF	1,507		
	Gravel Base, 8" thick	SF	1,507		
	Township Sidewalk				
	Truncated Dome Handicap Marker	SF	28		
	WWM Reinforced Concrete, 4" thick	SF	159		
	Gravel Base, 8" thick	SF	159		

	ITEM	UNIT	QUANT	PRICE	AMOUNT
	Door Pad				
	5' x 5' WWM Reinforced Concrete with 18" x 8" thick turn down on 3 sides, 4" thick	SF	25		
	Gravel Base, 6" thick	SF	25		
	Dumpster Pad				
	WWM Reinforced Concrete, 7" thick ***NOTE:*** *This is included with the concrete pavement.*	SF			
	Gravel Base, 6" thick	SF			
	Transformer Pad				
	WWM Reinforced Concrete, 7" thick	SF	48		
	Gravel Base, 6" thick	SF	48		
	Concrete Auto Parking Area				
	WWM Reinforced Concrete, 5" thick	SF	2,322		
	Gravel Base, 6" thick	SF	2,322		
	Concrete Drive aisle				
	WWM Reinforced Concrete, 7" thick	SF	3,220		
	Gravel Base, 6" thick	SF	3,220		
	Miscellaneous Concrete				
	Precast Wheel Stops	EA	2		
	6" Concrete Filled Steel Pipe Bollard at dumpster and building door protection, 3'-0" bury and 3'-6" exposed with smooth red plastic sleeve and set in 18" diameter concrete base	EA	4		
	6" Concrete Filled Steel Pipe Bollard in sidewalk, 3'-0" bury and 3'-6" exposed with smooth red plastic sleeve and set in 18" diameter concrete base	EA	7		
	Î	Î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
XII.	**PAVEMENT**				
	Parking Spaces				
	NOTE: *See section at the end for concrete pavement Alternate.*				
	Fine Grade and Compact Subgrade	SY	533		
	Aggregate Base Course, 6" thick	SY	533		
	ID-2 or Superpave 19mm Bituminous Binder Course, 2-1/2" thick	SY	533		
	ID-2 or Superpave 9.5mm Bituminous Surface Course, 1-1/2" thick	SY	533		
	Drive Aisles				
	NOTE: *See section at the end for concrete pavement Alternate.*				
	Fine Grade and Compact Subgrade	SY	1,234		
	Aggregate Base Course, 8" thick	SY	1,234		
	ID-2 or Superpave 19mm Bituminous Binder Course, 3" thick	SY	1,234		
	ID-2 or Superpave 9.5mm Bituminous Surface Course, 1-1/2" thick	SY	1,234		
	Full Depth Township Pavement				
	NOTE: *This includes the 2' patch at the new westerly entrance depressed Township curb.*				
	Fine Grade and Compact Subgrade	SY	21		
	Aggregate Base Course, 8" thick	SY	21		
	ID-2 or Superpave 19mm Bituminous Binder Course, 3" thick	SY	21		
	ID-2 or Superpave 9.5mm Bituminous Surface Course, 1-1/2" thick	SY	21		
	Î	Î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
XIII.	**PAVING REMOVAL AND REPLACEMENT FOR CURB**				
	Curb Patch in Parking Lot at Old East Entrance				
	Saw Cut Pavement, full depth	LF	52		
	Saw Cut Pavement, trim back	LF	52		
	Pavement Removal, 2' wide	SY	12		
	Fine Grade and Compact Subgrade	SY	12		
	Aggregate Base Course, 8" thick	SY	12		
	ID-2 or Superpave 19mm Bituminous Binder Course, 3" thick	SY	12		
	ID-2 or Superpave 9.5mm Bituminous Surface Course, 1-1/2" thick	SY	12		
	Î	Î			
Subtotal					
XIV.	**STRIPING AND SIGNS**				
	Striping				
	Striping Parking Spaces	EA	35		
	Striping Solid White Lines, 4" wide	LF	47		
	Striping Solid Blue Lines, 4" wide	LF	135		
	Striping Crosswalk, 6" wide white lines spaced 3'-0" o.c. with sidelines	LF	37		
	Striping Handicap Logo	EA	2		
	Signs				
	Stop Sign (R1-1)	EA	2		
	Handicap Parking Sign (R7-8), 12" x 18" with Penalty Sign (R7-8P), 10" x 12"	EA	1		
	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	1		
	No Maintenance May Be Performed in Parking Lot Sign mounted on light pole, 24" x 30"	EA	1		
	Truck Exit with Arrow Sign, 24" x 24"	EA	1		
	Î	Î			
Subtotal					

	ITEM	UNIT	QUANT	PRICE	AMOUNT
XV.	**FENCE**				
	5/4" x 6" Stained and Treated Pine vertical Boards mounted on 4" x 4" treated wood posts, 8' high	LF	41		
	Double Gate on steel tube frame mounted on 6" gate posts, 19' wide	EA	1		
	Galvanized Steel Hitching Post painted black and set in 12" concrete footing, 42" high x 14' long	EA	1		
	Î	Î			
Subtotal					
XVI.	**LIGHTING EXCAVATION**				
	Excavation and Bedding				
	Excavation	CY	140		
	Bedding, assume 6" thick and 12" cover	CY	60		
	Select Backfill	CY			
	Common Backfill	CY	80		
	Excess (See Mass Earthwork Overall Summary)	CY	60		
	Trenching and Base Excavation				
	Trench for site lights -- approximate length	LF	385		
	Excavate for site bases	EA	4		
	Concrete Base, 24" diameter x 3'-6" bury and 3'-0" exposed	EA	4		
	5" square Steel Pole with bronze finish and 209 watt LED Fixture, 22' high	EA	4		
	Î	Î			
Subtotal					
XVII.	**LANDSCAPE PLANTING**				
	Street Tree to match existing ***NOTE:*** *(3) trees are shown to be removed. It is unknown whether they can be transplanted.*	EA	3		
	Î	Î			
Subtotal					
	TOTAL				

	ITEM	UNIT	QUANT	PRICE	AMOUNT
A-1.	**DEDUCT: ALTERNATE**				
	Deduct: Parking Spaces				
	Fine Grade and Compact Subgrade	SY	533		
	Aggregate Base Course, 6" thick	SY	533		
	ID-2 or Superpave 19mm Bituminous Binder Course, 2-1/2" thick	SY	533		
	ID-2 or Superpave 9.5mm Bituminous Surface Course, 1-1/2" thick	SY	533		
	Deduct: Drive Aisles				
	Fine Grade and Compact Subgrade	SY	1,234		
	Aggregate Base Course, 8" thick	SY	1,234		
	ID-2 or Superpave 19mm Bituminous Binder Course, 3" thick	SY	1,234		
	ID-2 or Superpave 9.5mm Bituminous Surface Course, 1-1/2" thick	SY	1,234		
	Î	Î			
	Î	Î			
Subtotal					
A-2.	**ADD: ALTERNATE**				
	Add: Concrete Auto Parking Area				
	WWM Reinforced Concrete, 5" thick	SF	4,800		
	Gravel Base, 6" thick	SF	4,800		
	Add: Concrete Drive aisle				
	WWM Reinforced Concrete, 7" thick	SF	11,102		
	Gravel Base, 6" thick	SF	11,102		
	Î	Î			
Subtotal					

Autozone Sample.xlsx Pipe Excav Worksheet 1.0

		INPUTS			EXCAVATION			BEDDING				BACKFILL			
	Description	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
	AutoZone Kutztown														
	15106 Your Town														
	Your Township, Your County														
	Prepared: 1/3/2018														
I.	**SANITARY SEWER PIPE EXCAVATION**														
	6" PVC SDR 35 Lateral (6'-8' deep)	26	8.0	6"	12.0"	2.50	19	6"	100%	12"	5	0	**0**	14	5
	6" PVC SDR 35 Lateral in rock (6'-8' deep)	70	8.0	6"	12.0"	2.50	52	6"	100%	12"	12	1	**0**	39	13
	Î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	**0**	0	0
		96					**71**				**17**	**1**	**0**	**53**	**18**
	Excavation	**71**	**CY**												
	Bedding	**17**	**CY**												
	Select Backfill	**0**	**CY**												
	Common Backfill	**53**	**CY**												
	Excess	**18**	**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."

Autozone Sample.xlsx Pipe Excav Worksheet 1.0

		INPUTS			EXCAVATION			BEDDING				BACKFILL			
	Description	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.	**WATER PIPE EXCAVATION**														
	1" PEX Water Service Pipe	45	4.6	1"	12.0"	2.08	16	6"	100%	12"	5	0	**0**	11	5
	1" PEX Water Service Pipe to hose bibb at dumpster NOTE: Size is assumed.	55	4.6	1"	12.0"	2.08	19	6"	100%	12"	7	0	**0**	12	7
	1" PEX Water Service Pipe to hose bibb at dumpster in rock NOTE: Size is assumed.	20	4.6	1"	12.0"	2.08	7	6"	100%	12"	2	0	**0**	5	2
	Î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	**0**	0	0
	TRUE	**120**					**42**				**14**	**0**	**0**	**28**	**14**
	Excavation	**42**	**CY**												
	Bedding	**14**	**CY**												
	Select Backfill	**0**	**CY**												
	Common Backfill	**28**	**CY**												
	Excess	**14**	**CY**												

Autozone Sample.xlsx Pipe Excav Worksheet 1.0

		INPUTS			EXCAVATION			BEDDING				BACKFILL			
	Description	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.	**STORM PIPE EXCAVATION**														
	10" HDPE Watertight Roof Drain (0'-4' deep)	70	4.0	10"	12.0"	2.83	29	6"	100%	12"	16	1	**0**	12	17
	12" HDPE Watertight (0'-4' deep)	10	4.0	12"	12.0"	3.00	4	6"	100%	12"	2	0	**0**	2	2
	15" HDPE Watertight (0'-4' deep)	145	4.0	15"	12.0"	3.25	70	6"	100%	12"	41	7	**0**	22	48
	10" HDPE Watertight Roof Drain in rock (0'-4' deep)	50	4.0	10"	12.0"	2.83	21	6"	100%	12"	11	1	**0**	9	12
	12" HDPE Watertight in rock (0'-4' deep)	50	4.0	12"	12.0"	3.00	22	6"	100%	12"	12	1	**0**	9	13
	15" HDPE Watertight in rock (0'-4' deep)	110	4.0	15"	12.0"	3.25	53	6"	100%	12"	31	5	**0**	17	36
	Î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	**0**	0	0
	TRUE	**435**					**199**				**113**	**15**	**0**	**71**	**128**
	Excavation	**199**	**CY**												
	Bedding	**113**	**CY**												
	Select Backfill	**0**	**CY**												
	Common Backfill	**71**	**CY**												
	Excess	**128**	**CY**												

Autozone Sample.xlsx Pipe Excav Worksheet 1.0

		INPUTS			EXCAVATION			BEDDING				BACKFILL			
	Description	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
IV.	**MISCELLANEOUS UTILITIES EXCAVATION**														
	Trenching for gas mains	40	4.0	2"	14.0"	2.50	15	6"	100%	12"	6	0	**0**	9	6
	Trenching for gas mains in rock	75	4.0	2"	14.0"	2.50	28	6"	100%	12"	12	0	**0**	16	12
	Trenching for underground electric service and telephone mains	110	4.0	2"	14.0"	2.50	41	6"	100%	12"	17	0	**0**	24	17
	Trenching for underground electric service and telephone mains in rock	15	4.0	2"	14.0"	2.50	6	6"	100%	12"	2	0	**0**	4	2
	Î	0	0.0	2"	14.0"	2.50	0	6"	100%	12"	0	0	**0**	0	0
	TRUE	**240**					**90**				**37**	**0**	**0**	**53**	**37**
	Excavation	**90**	**CY**												
	Bedding	**37**	**CY**												
	Select Backfill	**0**	**CY**												
	Common Backfill	**53**	**CY**												
	Excess	**37**	**CY**												

Takeoff By: **Walsh Estimating (570) 223-7880**

Autozone Sample.xlsx Pipe Excav Worksheet 1.0

		INPUTS			EXCAVATION			BEDDING				BACKFILL			
	Description	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
V.	**SITE LIGHTING EXCAVATION**														
	Trench for site lights -- approximate length	385	4.0	2"	14.0"	2.50	143	6"	100%	12"	59	0	**0**	84	59
	Î	0	0.0	0"	12.0"	2.00	0	6"	100%	12"	0	0	**0**	0	0
	TRUE	**385**					**143**				**59**	**0**	**0**	**84**	**59**
	Excavation	**143**	**CY**												
	Bedding	**59**	**CY**												
	Select Backfill	**0**	**CY**												
	Common Backfill	**84**	**CY**												
	Excess	**59**	**CY**												