

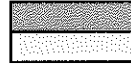
APPENDIX F

FOR REFERENCE ONLY

Butternut Creek GC
HDPE IRRIGATION MATERIAL TAKEOFF
Aqua Turf International
Monday, August 07, 2017

Make:
 Supplier:
 Quote Date:
 Quote Reference:
 Irrigation type:

Cell quantities indicated in blue result from a formula:
 Cell quantities indicated in yellow need unit prices:



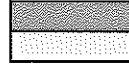
Base Bid Item	RB/TO	Model or Equivalent	Sub Total
HDPE IPS / Pipe / Black			
12" HDPE DR 13.5		ft	60
8" HDPE DR 13.5		ft	2,660
6" HDPE DR 13.5		ft	4,500
4" HDPE DR 13.5		ft	14,000
2" HDPE DR 13.5		ft	36,575
TOTAL			57,795
PVC / HDPE Specialty Pipe & Materials			
2" SCH 40 Electrical Conduit "Grey"		ft	300
3/4" SCH 40 Electrical Conduit "Grey"		ft	300
8" - ISMFMJ08IPSBELL - PVC/HDPE Aapter Kits		2 Per crossing	4
Kits include the bell mechanical joint, retaining gland, extra long tee bolts.			
HDPE Boring Materials / Black			
8" HDPE DR 11			240
TOTAL			240
Pump Station Down / Z-Pipe Connection			
12" x "Down Pipe Size" HDPE to Ductile Iron Transition Fittings			
12" IPS FLANGE ADAPTER, DR11 BODY, DR11 ENDS			1
12" DI BACKUP RING, DR11			1
12" FLANGE PACK HDPE X IRON/STEEL, DR11			1
6" MJ ADAPTER, DR11 BODY, DR11 ENDS			1
6" MJ ADAPTER ACCESSORIES			1
8" IPS FLANGE ADAPTER, DR11 BODY, DR11 ENDS			1
8" DI BACKUP RING, DR11			1
8" FLANGE PACK HDPE X IRON/STEEL, DR11			1
12 x 8" MOLDED REDUCER, DR11 BODY, DR13.5 ENDS			1
Total - Group 1 - PIPE			
Electrical Materials			
Base Bid Item	RB/TO	Model or EQ	Sub Total
#10 AWG/3C Tray Cable	Per 1000 ft	120 VOLT	6
Total			6000
#6 Bare Copper Wire (Shield/Bond)	ft		6
#12 AWG/1 PE Common (White Only) 1Roll=2500ft (137,500')	PER ROLL	125 X No.Heads	23
#14 AWG/1 PE Color Per Spec. (No Wht.or Green) (750,000')	PER ROLL	825 X No.Heads	157
#12 AWG/1 PE Common (White Only) SPARES	PER ROLL		2
#14 AWG/1 PE Color Per Spec.SPARES	PER ROLL		8
#14 AWG/1 PE (Blue Mainline Tracer)	PER ROLL		3
12" x 18", LID Mark "Electirc"			15
3M Type R/Y Wire Nuts		#12	200
Split Bolt Connectors		#6 & Larger	250
Scotchcast #4 Size A (Power)		3/Splice	100
DBRY-6 Paige Electric (#12 & #14 AWG)			1,700
3M #23 Rubber Tape (Rolls)			25
3M 82B1 Cable Splice (T-Splices)			15

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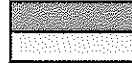
Base Bid Item	RB/TO	Model or Equivalent	Sub Total
#6 AWG Bare Copper Splice Paige Elec. #1820074		1/Sat. Assy.	10
Ground Grid Assembly			3
10' x 5/8" Copper Clad Ground Rod - UL Listed	1/Per Sat.		3
Cadweld - 3 Way Paige Elec.	1/Per Sat.	NT1161GPLUS	3
Cadweld Ignitor	1/Project		1
Copp. Grnd. Plate, Paige Elec.4x96	1/Per Sat.	182199IC	3
Powerset -50Lb. BAG	2/Per Sat.		6
6" Round Valve Box	1/Per Sat. HD	182101	3
Voltage Stabilizer 750V/444 BTU (Paige #:250030 or Sola)	Paige	SOLA #: 63-23-175-8	2
Total - Group 2 - WIRE			

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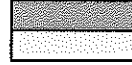
Base Bid Item	RB/TO	Model or Equivalent	Sub Total
Main Line Valves			
8" Mainline Valves w/ 13.5 HDPE Ends		66-200-EEN	6
6" Mainline Valves w/ 13.5 HDPE Ends		66-150-EEN	6
4" Mainline Valves w/ 13.5 HDPE Ends		66-100-EEN	14
18"x24" Rect. Valve Box W/Lid		Heavy Duty	26
Valve Key 2" T-Handle		157	2
2" Lateral Valve Assembly (HDPE)			
2" Polyethylene Ball Valve		74-5402	2
10" Round Valve Box / Green		Heavy Duty	2
4"X2" HDPE Sidewall Fusion Branch Saddle		66-31560402	2
4" Lateral Green Valve Assembly (HDPE)			
4" Polyethylene Ball Valve		325104	22
10" Round Valve Box / Green		Heavy Duty	22
8" x 4" 230 psi EF Branch Saddle			1
6" x 4" 230 psi EF Branch Saddle			6
4" x 4" 230 psi EF Branch Saddle			15
DR11 HDPE PE 4" Dead Ends			6
2" Drain Valve Assembly (HDPE)			
2" DR 11 Ball Valve with DR13.5 Ends		74-325102	5
2" HDPE 90 Degree Fitting for Shallowing & Swiveling		69-311902	5
18"x12" Rect. ValveBox		Heavy Duty	5
8" x 2" 230 psi EF Branch Saddle			1
6" x 2" 230 psi EF Branch Saddle			1
4" x 2" 230 psi EF Branch Saddle			3
2" Stub-Outs Only (HDPE)			
2" DR 11 Ball Valve with DR13.5 Ends		74-325102	1
2" HDPE 90 Degree Fitting for Shallowing & Swiveling		69-311902	1
2" HDPE BF x 2: MIPT Adapter		P896-020	2
18"x12" Rect. ValveBox		Heavy Duty	1
6" x 2" 230 psi EF Branch Saddle			1
2" Auto Valve Assembly (HDPE) Landscape			
2" DR 11 Ball Valve with DR13.5 Ends		74-325102	1
2" HDPE BF x 2 MIPT Adapter		P896-020	2
Toro -220-27-08	Toro	P220G-27-08	1
18"x12" Rect. Valve Box		Heavy Duty	1
4" x 2" 230 psi EF Branch Saddle			1
TORO T7 FC/PC ROTOR			4
4" Lateral Valve Assembly (HDPE) Stubout			
4" Polyethylene Ball Valve		325104	1
10" Round Valve Box / Green		Heavy Duty	1
6" x 4" 230 psi EF Branch Saddle			1
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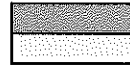
Base Bid Item	RB/TO	Model or Equivalent	Sub Total
2" Air Release Assembly (HDPE)			7
2" Air-Vacuum Release / Plastic Air Release Valve		Bernaidd 420 / ARK02-P	7
2" Ball Valve Brass 1		BV-200	7
2" x 3" TBE Nipples Sch 80 4		220-030	28
2" x 12" TBE Nipples Sch 80 4		220-120	7
2" Street Elbows 90 2		412-020	28
2" Street Elbows FxF 2		808-020	7
24 X 13 Rect. Jumbo Valve Box W/lid / Green 1		Heavy Duty / 194502	7
14"-24" / 2" 230 psi EF Branch Saddle		70-541408	1
6" x 2" 230 psi EF Service Saddle		70-540608	3
4" x 2" 230 psi EF Service Saddle		70-540408	4
2" x 2" 230 psi EF Service Saddle		70-540208	2
Total - Group 3 - VALVES			

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Base Bid Item	RB/TO	Model or EQ	Sub Total
Swing Joints & Service Tees			
PVC Tapt-Saddle 2" x 1-1/2" ACME (364-251)	Toro	Lasco 364-251	296
PVC Tapt-Saddle 2" x 1" ACME	Toro	Lasco 364-251	4
Toro Swing Joint 1-1/2"x1-1/2", 12", Standard, ACME	Toro	TSJ-15A-12-3-15A	475
Toro Swing Joint 1-1/2"x1", 18", Standard, (QC) ACME	Toro	TSJ-15A-18-3-15QC	21
Toro Swing Joint 1"x1", 12", Standard, ACME	Toro	TSJ-15A-12-3	2
Total - Group 4 - FITTINGS - PVC			

Base Bid Item	RB/TO	Model or EQ	Sub Total
HDPE IPS DR 11 Fittings			
DR 11 P Tee 12"		66-32101212	1
DR 11 PE Tee 8"			5
DR 11 PE Tee 6"			4
DR 11 PE Tee 4"			27
DR 11 PE Tee 4X4x2"			73
DR 11 PE Tee 2"			24

Base Bid Item	RB/TO	Model or EQ	Sub Total
HDPE IPS DR 11 Fittings:			
DR 11 PE 90° Elbow 2"			15
DR 11 PE 45 Elbow 8"			8
HDPE DR 11 Reducers:			
HDPE IPS DR 11 Lateral Directional Fittings:			
DR 11 PE Reducer 4 x 2"			53
DR11 PE Dead Ends 2"			59
DR11 PE Dead Ends 4"			2
DR11 PE Dead Ends 6"			2

Base Bid Item	RB/TO	Model or EQ	Sub Total
DR 11 Electro Fusion Repair Coupling 2"			12
DR 11 Electro Fusion Repair Coupling 4"			6
DR 11 Electro Fusion Repair Coupling 6"			4
DR 11 Electro Fusion Repair Coupling 8"			2
Total - Group 4 - FITTINGS - DR 11 PE			

Base Bid Item	RB/TO	Model or EQ	Sub Total
Total - Group 5 - RESTRAINTS			

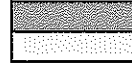
Base Bid Item	RB/TO	Model or EQ	Sub Total
KIT,SERVICE,MODULE,OUTPUT,8STA,E-OS	Toro	102-0654	39

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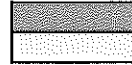
Base Bid Item	RB/TO	Model or Equivalent	Sub Total
KIT,SERVICE,SURGE,PCB,M4,UPGRADE,E-OS	Toro	102-0642	20
BUS BAR, 40-64 STA, GND E-OSMAC	Toro	102-0652	9
BUS BAR, 24V, E-OSMAC	Toro	102-0653	9
HARNESS KIT, GROUNDING	Toro	102-0685	9
SCREWS, #6, SELF-TAPPING	Toro	363-8289	216
KIT, FASTENERS, OUTPUT BOARD	Toro	102-0671	9
New Toro Controller Locations	Toro		2
TOTAL SATELLITE LOCATIONS (7 Existing / 2 Relocated)			9
12" x 18", LID Mark "Electirc"			2
4" Sweep PVC		1/ Per Sat.	2
1 1/2" Sweep PVC		3/ Per Sat.	6
1 1/2" Sweep PVC Couplings		6/ Per Sat.	12
3M Vinyl Color Marking Tape #35 (Black, White (Red), Green)		At All Splices & Term.	2
3M Vinyl Economy Electrical Tape		At All Splices & Term.	100
3M Std 0-9 Marking Labels		2/Project	2
Weather Station - Wireless	Toro		1
Base Bid Item / Green	RB/TO	Model or EQ	Sub Total
INF54-55 PC/FC 76' Spacing	Toro	1-1/2" Inlet	275
INF55-53 PC/FC 65' Spacing	Toro	1-1/2" Inlet	200

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Base Bid Item	RB/TO	Model or Equivalent	Sub Total
TOTAL			475
Quick Coupler Assy.			21
1" Toro QCV / Green	Toro	476-00	21
Quick Coupler Stabilizer 1"		Harco 82201	21
6" Round Valve Box / Green		Heavy Duty	21
Total - Group 6 - IRRIGATION			

Base Bid Item	RB/TO	Model or EQ	Sub Total
Miscellaneous Items			
Rear Nozzles / White Plug	Toro		28
Rear Nozzles / FLX54 RED INNER	Toro		8
FLX55/35 YELLOW STATOR, LOW FLOW	Toro		8
FLX54/34 WHITE STATOR, MEDIUM FLOW	Toro		8
Wire Strippers #12 /#14	Ideal		4
Sprinkler Tools (Sets) for each size Specified	Toro		4
1.5" QCV Key For QCV	Toro	466-01	2
1" Swivels For QC Keys	Toro	477-02	2
1 1/2" ACME Caps			25
Teflon Tape (Rolls)		1"	10
RED MARKING PAINT		MPR	2
BLUE MARKING PAINT		MPB	2
ORANGE MARKING PAINT		MPO	2
WHITE MARKING PAINT		MPW	2
PINK MARKING PAINT		MPP	2
On Site Training		EXP-70125	0.5
As-Built (GPS)		Consultant by Owner	1
Staking		Consultant by Owner	1
Computer Programming Fee	Toro	Consultant by Owner	1
Total - Group 7 - MISCELLANEOUS			

Base Bid Item	RB/TO	Model or EQ	Sub Total
Total - Group 8 - PUMP STATIONS			

Adjustment to compensate missing prices

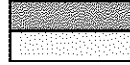
Base Bid Item	NOTES
TOTALS BY GROUP	
Base Bid Item	NOTES
Group 1 - Pipe	1
Group 2 - Wire	1
Group 3 - Valves	1
Group 4 - Fittings - PVC	1
Group 4 - Fittings - HDPE	1

FDR REFERENCE ONLY

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Group 5 - Restraints			1
Group 6 - Irrigation			1
Group 7 - Miscellaneous			1
Sub-Total			1
Sales Tax			1
Total			1
Group 8 - Pump Station(s)			1
Sales Tax			1
Total			1
Approx. Handling, insurance, inland & Ocean Freight for Groups 1 through 7			1
Approx. Handling, insurance, inland & Ocean Freight for Group 8			1
Discount			1
Total			
Grand Total			