## ORDINANCE 2018-06-21-0470

AUTHORIZING A TASK ORDER TO A JOB ORDER CONTRACT PAYABLE TO F.A. NUNNELLY FOR THE UPPER APACHE CREEK LINEAR GREENWAY TRAIL SYSTEM IMPROVEMENTS TO INCLUDE TREE AND IRRIGATION INSTALLATION LOCATED IN COUNCIL DISTRICT 5, IN AN AMOUNT NOT TO EXCEED \$550,000.00, FUNDED FROM THE TREE CANOPY PRESERVATION AND MITIGATION FUND.

WHEREAS, the Westside Creek hike and bike trails consist of the Apache, Alazan, Martinez, Zarzamora and San Pedro tributaries; and

WHEREAS, these trails are an expansion of the Howard W. Peak Greenway Trail system which enhances the quality of life for San Antonio residents and visitors by preserving open space and providing outdoor recreation along creeks and rivers; and

WHEREAS, unlike the Leon and Salado Creek trails which are rich with existing tree canopy to provide abundant shade, the westside tributaries lack many of the trees that provide essential shade to trail users in a natural setting; and

**WHEREAS**, as part of this project, trees and irrigation will be installed along the Upper Apache Creek section on the City's west side, which extends approximately from S. Zarzamora St. to S. Brazos St; and

**WHEREAS**, this section of the trail is a mile long and passes through and by three city Parks: Cassiano Park, Escobar Park and Amistad Park; and

WHEREAS, the proposed tree enhancement includes the installation of 340 new native shade and ornamental trees of various size and species; and

WHEREAS, installation of the water meters and irrigation lines to support the trees are included in the project; and

WHEREAS, the project is anticipated to begin July 2018 and is estimated for completion in the fall of 2018; and

WHEREAS, this Project was selected to utilize the Job Order Contracting (JOC), an alternative Project delivery method which ten contractors were approved through Ordinance 2015-01-15-0013 by City Council on January 15, 2015; and

WHEREAS, the use of the JOC delivery method provides the City with on-call construction, renovation and maintenance services for City projects; and

WHEREAS, assignment of JOC contractors to specific jobs is based on the contractor's current workload, overall capacity, and familiarity with a specific facility, expertise in

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completing specific task and/or managing a specific trade needed to carry out the requested repair or rehabilitation; and

WHEREAS, of the ten contractors, F.A. Nunnelly, General Contractor, was selected to submit an estimate and project schedule for this Project; and

**WHEREAS**, F.A. Nunnelly has committed to 23% M/WBE and 3% AABE subcontractor participation; **NOW THEREFORE**:

## BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:

**SECTION 1.** The City Manager or her designee the Director of the Parks and Recreation Department or his designee, is authorized to execute a task order to a Job Order Contract with F.A. Nulley for the Upper Apache Creek Linear Greenway trail system tree and irrigation installation located in Council District 5, in the amount not to exceed of \$550,000.00, funded from the Tree Canopy Preservation and Mitigation Fund. A copy of the task order is attached hereto and incorporated herein for all purposes as **Attachment I**.

**SECTION 2.** Funding for this ordinance in the amount of \$550,000.00 is available in Fund 29619000, Cost Center 2616010001 General Ledger 5201040 as part of the Fiscal Year 2018 Budget.

**SECTION 3.** Payment not to exceed the budgeted amount is authorized to F.A. Nunnelly and should be encumbered with a purchase order.

**SECTION 4.** The financial allocations in this Ordinance are subject to approval by the Director of Finance, City of San Antonio. The Director of Finance may, subject to concurrence by the City Manager or the City Manager's designee, correct allocations to specific SAP Fund Numbers, SAP Project Definitions, SAP WBS Elements, SAP Internal Orders, SAP Fund Centers, SAP Cost Centers, SAP Functional Areas, SAP Funds Reservation Document Numbers, and SAP GL Accounts as necessary to carry out the purpose of this Ordinance.

**SECTION 5.** This ordinance is effective immediately upon the receipt of eight affirmative votes; otherwise, it is effective ten days after passage.

**PASSED AND APPROVED** this 21<sup>st</sup> day of June, 2018.

MAYOR

Ron Nirenberg

ATTEST:

APPROVED AS TO FORM:

Andrew Segovia, City Attorney

Agenda Item:	14 (in consent v 25A, 25B, 25C, 2 53, 54, 56A, 56B,	7, 28, 29, 30, 31	, 34, 35A,							
Date:	06/21/2018	06/21/2018								
Time:	09:39:05 AM	9:39:05 AM								
Vote Type:	Motion to Approv	'e								
Description:	Ordinance approv Linear Greenway to exceed \$550,00 Villagómez, Assis	trail system imp 0.00, funded fro	rovements om the Tre	to include e Canopy I	tree and irrigation Preservation and	on installation in Mitigation Fund.	an amount not			
Result:	Passed	2	n							
Voter	Group	Not Present	Yea	Nay	Abstain	Motion	Second			
Ron Nirenberg	Mayor		x							
Roberto C. Treviño	District 1		X			X				
William Cruz Shaw	District 2		x				x			
Rebecca Viagran	District 3		X							
Rey Saldaña	District 4		x							
Shirley Gonzales	District 5		X							
Greg Brockhouse	District 6		x							
Ana E. Sandoval	District 7		x	6			U te			
Manny Pelaez	District 8		X		8					
John Courage	District 9		х	us .						
Clayton H. Perry	District 10	l l	X				-			

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# **ATTACHMENT I**



## PROPOSAL & STATEMENT OF WORK

Date:

May 18, 2018

Project:

Westside Creeks Tree Planting Enhancements

Coordinator: Ross Hosea

This Proposal is offered as set forth per job walk between F.A. Nunnelly and COSA and is defined in an attached Design Drawings by Rialto Studio and Garza EMC dated 5-8-2018.

The proposed scope of work only includes and be performed per construction documents including qualifications listed below.

- 1. No other work requirements are acknowledged except as clarified herein.
- 2. Prior to FA Nunnelly moving forward on this project a Purchase Order or Task Order Number must be provided in PrimeLink.

## **General Assumptions and Clarifications:**

- 1. Full access to the work space.
- 2. No requirement for personnel to be escorted.
- 3. No additional work or repairs are included.
- 4. Work to be performed during normal business hours (Mon-Fri 8-5).
- 5. No liquidated damages.
- 6. Warranty of this scope of work will be limited to one year.
- 7. The following contingency and allowances are included in the project proposal price. Any contingency or allowance not utilized with be reimbursed to the owner. In the event that the contingency and allowance funds are exhausted, an increase to the contract price will be provided via change orders.

a. Project Contingency: \$40,000

b. Theft & Vandalisms Allowance: \$10,000

c. Impact Fees Allowance: \$10,000

## Scope of Work:

- 1. Landscaping and Irrigation per Rialto Studio and Garza EMC plans dated 5-8-2018
- 2. All work will be done during normal working hours.
- 3. Provide certified payroll.
- 4. Taxes not included on materials or labor.



## PROPOSAL & STATEMENT OF WORK

Date:

May 18, 2018

Project:

Westside Creeks Tree Planting Enhancements

Coordinator: Ross Hosea

## **General Inclusions:**

• Provide daily supervision of all work scope.

Provide daily clean-up and final clean-up.

## **General Exclusions:**

- Premium time
- Work outside of what's listed above
- Handling of hazardous material or abatement
- Any additional asphalt repairs beyond utility trench repairs

Material Scheduling & Acquisition approximately: 4-6 weeks - Approximate Construction Duration: 8 weeks.

**Total Proposal:** 

\$ 540,963

Sincerely,

Blaine Beckman

**VP of Operations** 

F.A. Nunnelly General Contractor



Final Estimate

Blaine Beckman

F. A. Nunnelly General Contractor

2015-01-20-0053\_01 - 2015 COSA JOC - 2015 - 2/01/2015 to 2/01/2016

Westside Creeks Tree Planting Enhancement - 18407

Blaine Beckman

Estimator: Blaine Beckman			We	stside Creeks Tre	e Plantin
Estimator: Blame Beekman			•••	Stalue Orecka III	se i iaiitii
Project Scope: New landscape and irrigation for Apache Creek. Inclusive systems to support new controls.	ides change out of two over	sized meters and one new irrigation m	neter. Minor electrical a	adds to existing electrical I	ighting
Division Summary (MF04) 01 - General Requirements	\$61,662,30	26 - Electrical			<del></del>
02 - Existing Conditions	\$5,625.00	27 - Communications			
03 - Concrete	\$3,023.00	28 - Electronic Safety and Security	// · · · · · · · · · · · · · · · · · ·		
04 - Masonry		31 - Earthwork			\$2,925.00
05 - Metals		32 - Exterior Improvements			\$1,675.00
06 - Wood, Plastics, and Composites		33 - Utilities			Ψ1,075.00
07 - Thermal and Moisture Protection		34 - Transportation			
08 - Openings		35 - Waterway and Marine Transpo	ortation		
09 - Finishes		41 - Material Processing and Hand			
10 - Specialties	\$522.00	44 - Pollution Control Equipment	mig Equipment		
11 - Equipment	\$1,264.00	46 - Water and Wastewater Equipm	nent		
12 - Furnishings	* /==	48 - Electric Power Generation			
13 - Special Construction		Alternate			\$439,213.20
14 - Conveying Equipment		Trades			
21 - Fire Suppression		Assemblies			
22 - Plumbing		FMR		17	
23 - Heating, Ventilating, and Air-Conditioning (HVAC)		MF04 Total (Without totalling cor	mponents)		\$512,886.50
25 - Integrated Automation		•			
Totalling Components					
Priced Line Items	\$80,799.50	Nonpriced Line Items			\$432,087.00
RSMeans SAN ANTONIO, TX CCI 2018, 83.20%	\$(13,574.32)	2015 COSA FANunnelly Normal No	onpriced (10.0000%)		\$43,208.70
2015 COSA FANunnelly Normal Priced (-22.0000%)	\$(14,789.54)	BOND (2.5800%)			\$13,232.47
		Priced/Non-Priced	10		
		Total Priced Items: Total Non-Priced Items:	25 7	\$80,799.50 \$432.087.00	
			32	\$512,886.50	_
				12-11-11-01-01	
		Grand Total	torinit massives argum		\$540,963.8

Estimator: Blaine Beckman Westside Creeks Tree							
AND A STATE OF THE	Item	Description	UM	Quantity	Unit Cost	Total Book	
01	- General Requ	irements					
1	01-31-13-20-0020	Field personnel, clerk, average	Week	1.0000	\$780.00	\$780.00 RSM18FAC L. O&P	F
		Job setup, contracts, and closeout		¥		2, 00.	
2	01-31-13-20-0160	Field personnel, general purpose laborer, average	Week	1.0000	\$2,575.00	\$2,575.00 RSM18FAC L, O&P	P
3	01-31-13-20-0220	Field personnel, project manager, maximum	Week	2.0000	\$4,500.00	\$9,000.00 RSM18FAC L, O&P	Р
4	01-31-13-20-0280	Field personnel, superintendent, maximum	Week	8.0000	\$4,175.00	\$33,400.00 RSM18FAC L, O&P	Р
5	01-31-13-30-0050	Insurance, standard builders risk, maximum	Job	500,000.0000	0.6400%	\$3,200.00 RSM18FAC O&P	Р
6	01-32-13-50-0600	Scheduling, rule of thumb, CPM scheduling, small job (\$10 million)	Job	500,000.0000	0.0500%	\$250.00 RSM18FAC O&P	Р
7	01-32-33-50-0500	Construction photographs, aerial photos, initial fly-over, 5 shots, digital images	Set	1.0000	\$455.00	\$455.00 RSM18FAC M, O&P	Р
_		Drone videography - will provide copies of before and after to the city			0.01.00	40.40.00 PSM40F40	
8	01-52-13-20-1350	Storage boxes, rent per month, 40' x 8'	Ea.	2.0000	\$121.00	\$242.00 RSM18FAC M. O&P	Р
9	01-54-33-20-4880-4	Rent per month for rent loader, skid steer, wheeled, 10 CF, 30 HP	Ea.	1.0000	\$1,622.50	\$1,622.50 RSM18FAC E, O&P	Р
10	01-54-33-40-1600-3	Rent per week for rent reflectorized barrels 1 to 99 barrels	Ea.	5.0000	\$17.60	\$88.00 RSM18FAC E, O&P	Р
11	01-54-33-40-1670-4	Rent per month for rent barricade, portable with flasher 1 to 6 units  Traffic control barricades for utility tie in connection	Ea.	10.0000	\$59.40	\$594.00 RSM18FAC E, O&P	Р
12	01-54-33-40-6410-3	Rent per week for rent toilet portable chemical 8 weeks - one unit	Ea.	8.0000	\$72.60	\$580.80 RSM18FAC E, O&P	Р
13	01-54-33-40-7660-4	Rent per month for rent, portable water tank	Ea.	1.0000	\$1,210.00	\$1,210.00 RSM18FAC E. O&P	Р
14	01-56-23-10-1300	Barricades, barricade tape, polyethylene, 7 mils thick, 3" wide x 500' long roll	Ea.	8.0000	\$27.50	\$220.00 RSM18FAC M. O&P	Р
15	01-56-26-50-0200	Temporary fencing, chain link, rented up to 12 months, 6' high, 11 ga, to 1000'	L.F.	450.0000	\$5.90	\$2,655.00 RSM18FAC M, L, O&P	Р
16	01-58-13-50-0020	Project signs, sign, high intensity reflectorized, buy, excl. posts	Ea.	4.0000	\$27.50	\$110.00 RSM18FAC M, O&P	Р
17	01-74-13-20-0020	Cleaning up, clean up after job completion, allow, min	Job	500,000.0000	0.3000%	\$1,500.00 RSM18FAC O&P	Р
18	01-74-13-20-0052	Cleaning up, cleanup of floor area, continuous, per day, during construction	M.S.F.	40.0000	\$79.50	\$3,180.00 RSM18FAC M, L, E, O&P	Р
		01 - General Requirements Total				\$61,66	62.30

Esti	mator: Blaine	Beckman			Westsid	e Creeks Tree Plant	ting
I	ltem	Description	UM -	Quantity	Unit Cost	Total Book	
02 - E	xisting Condi	tions		-			
19 02	2-21-13-13-0300	Boundary & survey markers, lot location and lines, for large quantities, minimum Survey Layout of boundaries, irrigation, and planting	Acre	5.0000	\$1,125.00	\$5,625.00 RSM18FAC M, L, E, O&P	Р
		02 - Existing Conditions Total				\$5,62	25.00
	Specialties 0-14-53-20-0600	Signs, guide and directional signs, reflectorized, 12" x 18", excludes posts	Ea.	6.0000	\$87.00	\$522.00 RSM18FAC M. L. E. O&P	Р
		10 - Specialties Total					22.00
11 <sub>-</sub> F	guipment						
	1-14-19-13-0020	Posts, portable for pedestrian traffic control, standard	Ea.	8.0000	\$158.00	\$1,264.00 RSM18FAC M, O&P	Р
		11 - Equipment Total				\$1,26	64.00
31 - E	Earthwork	A V				a.	
22 31	1-25-14-16-1000	Synthetic erosion control, silt fence, install and maintain, remove, 3' high	L.F.	1,500.0000	\$1.95	\$2,925.00 RSM18FAC Grn, M, L, E, C	D&P P
		31 - Earthwork Total	No.			\$2,92	25.00
32 - E	xterior Improv	vements					
23 32	2-01-17-20-1360	Flexible pavement patches, roadway, light traffic, hot pave patch, 80 S.F. $\&4$ indepth, excludes trucking	hEa.	1.0000	\$715.00	\$715.00 RSM18FAC M, L, E, O&P	Р
24 32	2-01-17-20-1360-1500	Flexible pavement patches, roadway, light traffic, hot asphalt haul truck, 8 C.Y. truck per day (Modified using 32-01-17-20-1500)	Day	1.0000	\$960.00	\$960.00 RSM18FAC L, E, O&P	Р
		32 - Exterior Improvements Total				\$1,67	75.00
Altern	nate					35	
25 01	-41-26-50-0020	Permits rule of thumb, most cities, minimum	Job	541,000.0000	0.7000%	\$3,787.00 CUSTOM O&P	N
26 26	6-01-40-51-3020	ELECTRICAL	LSUM	1.0000	\$22,500.00	\$22,500.00 CUSTOM	N
		Conduit routing from existing power located at bridges to new controller locations. Thaccess systems up high. It is assumed we are tying into existing circuitry. Establishing				O&P	
27 32	2-93-43-20-0100	LANDSCAPE AND IRRIGATION	LSUM	1.0000	\$320,800.00	\$320,800.00 CUSTOM	N
		This includes landscape and irrigation work per Rialto Drawings dated 5-8-2018 (Sedated 5-17-2018)	attached p	proposal and itemized brea	kdown	Grn, O&P	

E	stimator: Blaine	Beckman			Westside	Creeks Tree Plant	ing
Alte	rnate						enterphisma (Cris
	Item	Description	UM	Quantity	<b>Unit Cost</b>	Total Book	
28	33-05-97-05-0020	UTILITIES	LSUM	1.0000	\$25,000.00	\$25,000.00 CUSTOM M, L, E, O&P	N
		This price includes changeout of 2 existing meters from 2" to 1" and inc service piping and 1" meter.	ludes the installation of an	additional main tie-in v	vith	W, E, E, Odi	
29	ALLOWANCE	THEFT & VANDALISM ALLOWANCE	LSUM	1.0000	\$10,000.00	\$10,000.00 CUSTOM	Ν
	100	This project contingency is to be utilized in the event that vandalism occ 3 sections will be segregated for each to achieve substantial completion		elete section. Per COS	A each of		
30	ALLOWANCE	IMPACT FEE ALLOWANCE	LSUM	1.0000	\$10,000.00	\$10,000.00 CUSTOM	Ν
		This allowance is for anticipated cost for any required utility fees				our -	
31	CONTINGENCY	PROJECT CONTINGENCY	LSUM	1.0000	\$40,000.00	\$40,000.00 CUSTOM	N
		This is a project contingency to be utilized for any unforseen or unanticily are as follows:  Permitting that exceeds \$2500  Any asphalt patching that goes beyond repair of trench dimensions at u Etc		es to be applied to con	mingency		
32	Crew A-03B	A-03B Crew - 2018 - RSMeans Standard Books O&P	Daily	3.0000	\$2,375.40	\$7,126.20 CUSTOM L. E. O&P	Р
		Dump truck and crew for trucking cost off spoil haul off. 3 park sections A-03B (2018 - RSMeans Standard Books) Labor Hours: 16 Equip Hours: 16 Daily Hours: 16  Crew Details: Code: EQMD Description: Equipment Operators, Medium Equipment Q Code: TRHV Description: Truck Drivers, Heavy Qty: 1 Hourly: 69.3 Daily	ty: 1 Hourly: 81.05 Daily: 64 y: 554.4		seperately.	L, E, Oap	
		Code: 015433205300 Description: Dump Truck, 12 C.Y., 400 H.P. Oty: Code: 015433204710 Description: F.E. Loader, W.M., 2.5 C.Y. Oty: 1 H				\$439,2°	13.20

**Estimate Grand Total** 

540,963.81



## **BID FOR IRRIGATION AND LANDSCAPING INSTALLATION**

To: Greg Vaughn, Project Manager

Date: May 17, 2018

Project: Westside Creek, Upper Apache

San Antonio, TX

## **SCOPE OF WORK:**

TEFACY, LLC DBA MTZ Landscaping will provide supervision, labor, material, and equipment necessary to perform the services listed below:

## **Tree Preservation**

\$21,723.00

Protect trees from construction as per plan specifications to comfort all current city and state regulations.

James W. Grey Jr. #622, May 8, 2018, Project #1735-1

## **Irrigation Installation**

\$40,650.00

Installation of functional irrigation system as per per plan specifications to comfort all current city and state regulations. Includes sleeving material and boaring under sidewalks as per plans and specs

Katherine A. Valadez #18083, May 8, 2018, Project #1735-1

### **Tree Installation**

\$254,401.25

Installation of planting material as per plan specifications to comfort all current city and state regulations.

James W. Grey Jr. #622, May 8, 2018, Project #1735-1

#### **Disturbed Areas**

\$1,775.00

Prep and re-sod damaged areas disturbed by construction. Approx. 1,400 sf. Using solid buffalo sod.

## **Temporary Irrigation**

\$2,250.00

Installation of temporary irrigation system to newly installed solid sod establishment to comfort all current city and state regulations.

The estimated cost for the landscaping and irrigation installation for the project described above is **\$320,799.25**.

The entire job will be conducted in a professional and timely manner. *All work and material are guaranteed as per our specifications. The price above of* **\$320,799.25** *includes:* 

Tools, Materials, Material, Labor, Equipment, and delivery fees. No tax included for this Tax



Exempt Project.  MTZ Landscaping does not provide water and is not held systems.	d liable for any costs associated with any water
Proposed by MTZ Rep:	FA NUNELLY:
Anna Martinez, 210-380-0674 Date: 5/18/2018	Date

TEFACY, LLC DBA MTZ LANDSCAPING • P.O. BOX 15372 • SAN ANTONIO • TEXAS • 78212 • P.210-380-0674



WESTSIDE CREEKS TREE PLANTING ENHANCEMENTS - UPPER APA	ACHE					
PREPARED BY:Anna L. Martinez  DATE:5/17/18						
DATE.STITIO						
*NOTE: THIS LIST MAY NOT BE COMPLETE AND MAY INCLUDE INFORMATION NOT ON THE ITEMS THAT MAY BE FOUND ON THE PLANS. THOSE ITEMS MUST STILL BE INCLUDED IN		TRACT	OR IS ALSO RESI	PONSIBLE FOR ADI	DITIONA	L OR MISSING
ELEMENT	QTY	UNIT	COST	TOTAL		
GENERAL CONDITIONS						
GENERAL CONDITIONS ( MOBILIZATION, BONDS, CLEAN UP, ETC.)		LS	\$ 25,748.00	\$ 25,748.0	0	
GENERAL CONDITIONS TOTAL					\$	25,748.0
LANDSCAPE		1			_	
ANAQUA (3" CAL)	7	EA	\$860.50	\$ 6,023.5		
MEXICAN BUCKEYE (#15 CONT)	27	EA	\$223.75	\$ 6,041.2		
CEDAR ELM (2" CAL)	16	EA	\$353.75	\$ 5,660.0		
CEDAR ELM (4" CAL)	23	EA	\$1,550.00	\$ 35,650.0		
LACEY OAK (1.5" CAL)	15	EA	\$200.33	\$ 3,004.9	5	
LACEY OAK (3" CAL)	12	EA	\$921.59	\$ 11,059.0		
MONTERREY OAK (6" CAL)	16	EA	\$3,200.00	\$ 51,200.0		
MEXICAN PLUM (#15 CONT)	13	EA	\$150.00	\$ 1,950.0	0	
MEXICAN PLUM (3" CAL)	19	EA	\$950.00	\$ 18,050.0	0	
LIVE OAK (2" CAL)	20	EA	\$300.00	\$ 6,000.0	0	
LIVE OAK (4" CAL)	18	EA	\$1,550.00	\$ 27,900.0	0	
PECAN (4"CAL)	12	EA	\$1,550.00	\$ 18,600.0	0	
POSSUMHAW HOLLY (#15 CONT)	39	EA	\$150.00	\$ 5,850.0	0	
TEXAS REDBUD (2" CAL)	42	EA	\$350.00	\$ 14,700.0	0	
RETAMA (36" BOX)	- 11	EA	\$667.50	\$ 7,342.5	0	
MEXICAN SYCAMORE (3" CAL)	15	EA	\$950.00	\$ 14,250.00	0	
MEXICAN OLIVE (#15 CONT)	35	EA	\$150.00	\$ 5,250.00	)	
				148		
TREE STAKES	340	EA	\$8.00	\$ 2,720.00	)	
PLANTING SOIL MIX (BACKFILL AT TREES)	50	CY	\$ 40.00	\$ 2,000.00	)	
BUFFALO SOD (AREA DISTURBED BY IRRIGATION SLEEVE BORING)	50	SY	\$ 6.00	\$ 300.00	)	
MULCH (3" depth)	434	CY	\$ 25.00	\$ 10,850.00	)	
LANDSCAPE TOTAL					\$	254,401.2
IRRIGATION						
1" ISOLATION GATE VALVE INSTALLED (PER DETAIL 1-L5.4)		EA	\$ 295.00	\$ -		
	3	EA			,	2
1" PRESSURE REGULATOR INSTALLED (PER DETAIL 1-L5.4)  1" PACKELOW PREVENTER W/ W/VE STRAINER, INSTALLED (PER DETAIL 1-L6.4)	3	EA		100		
1" BACKFLOW PREVENTER W/ WYE-STRAINER INSTALLED (PER DETAIL 1-L5.4)		-				
1" MASTER VALVE INSTALLED (PER DETAIL 1-L5.4)	3	EA	100	122		
1" FLOW SENSOR INSTALLED (PER DETAIL 1-L5.4)	3		\$ 480.00			
1" AIR RELIEF VALVE INSTALLED (PER DETAIL 1-L5.4)	3	EA	\$ 172.79			
SYSTEM CONTROLLER & STEEL CABINET INSTALLED (PER DETAIL 2-L5.4)	3	EA				
WEATHER SENSOR INSTALLED (PER DETAIL 3-L5.4)	3	EA	\$ 175.00			
QUICK COUPLING VALVE INSTALLED (PER DETAIL 5-L5.4)	16	EA				
ZONE CONTROL VALVE INSTALLED (PER DETAIL 6-L5.4)	21	EA				
SYSTEM CONTROL WIRING, #14 AWG SOLID COPPER INSTALLED (PER DETAIL 8-L5.4)  (NOTE: TRACER WIRE & ADDITIONAL WIRES ON DETAIL 2-L5.4)	24873	EA	\$ 0.38	\$ 9,451.74 \$ -	1	
RAINBIRD 1804-SAM-PRS W/RAINBIRD 1402 NOZZLE INSTALLED (PER DETAIL 7-L5.4)	626	EA	\$ 5.00		)	
.75" FLEXIBLE PVC SCH. 40 PIPE	4400	LF	\$ 0.75			
.75" PVC SCH. 40 PIPE	7400	LF	\$ 0.75			
1" PVC SCH. 40 PIPE	2254	LF			)	
1.25" PVC SCH. 40 PIPE	2010/2004/00		W 1	199		
	1020	LF	\$ 1.25			
1.5" PVC SCH. 40 PIPE	4897	LF	\$ 1.50			
" PVC SCH. 40 IPS PIPE (SLEEVES, INSTALLED PER DETAIL 4-L5.4)	500	LF	\$ 7.50	\$ 3,750.00	)	
TEMPORARY IRRIGATION FOR BUFFALO SOD ESTABLISHMENT	500	LS	\$ 4.50	100	)	
A CONTRACTOR OF THE CONTRACTOR						
IRRIGATION TOTAL					\$	40,650.0
TOTAL					\$	320,799.2
			District Control of the Control of t		Ψ	320,133.2