



**Iron Horse Golf Course Improvements Project  
North Richland Hills, Texas**

**RFB 20-002- SEPTEMBER 18, 2019**

**ADDENDUM NO. 3**

**ADD INFORMATION PROVIDED BELOW TO PAGE 3- INVITATION TO BID.**

**Add an additional bullet as follows: Date of Substantial Completion: Friday August 7, 2020.**

**Add an additional bullet as follows: Date of Iron Horse reopening: Tuesday September 1, 2020.**

**ADD INFORMATION PROVIDED BELOW TO PAGE 41 OF THE TECHNICAL SPECIFICATIONS:**

**B. Clearing and Grubbing-** *The Contractor shall remove trees as shown on clearing plan, after field review with golf course architect. Add the following sentence: All stumps must be ground down to just below grade with appropriate tree grinding equipment.*

**ADD INFORMATION PROVIDED BELOW TO PAGE 99 OF THE TECHNICAL SPECIFICATIONS:**

**III- Project Close-Out- 1.1 Substantial Completion- Prior to A, add the following:**

*July 15, 2020 is considered to be the last acceptable grassing date. Therefore, the date of Substantial Completion has been determined to be August 7, 2020. Owner's acceptance and last allowable day for construction is September 1, 2020. Iron Horse Golf Course will reopen to the public on September 1, 2020.*

*The Contractor agrees that, from the compensation otherwise to be paid, The Owner may retain the sum of Five Hundred dollars (\$500.00) for each calendar day after the published date of Substantial Completion that the work remains not substantially complete, which sum is agreed upon as the proper measure of liquidated damages which the Owner will sustain per diem by the failure of the Contractor complete the work by the time stipulated in the contact. This sum in not to be construed in any sense a penalty.*

**ADD INFORMATION PROVIDED BELOW TO THE IRRIGATON SPECIFICATIONS:**

*Regardless of irrigation sprinklers/ the control system specified and chosen, Contractor will use Rainbird Maxi Control Cable.*

**ADDENDUM #3 – SEPTEMBER 18, 2019 FOR RFB 20-002**

**ADD THE TWO ATTACHMENTS: IHR-EX IRR SCAN 1 AND IHR-EX IRR SCAN 2.**

**ADD THE ATTACHMENT: SIGN IN SHEET**

**THIS ADDENDUM MUST BE SIGNED AND RETURNED WITH YOUR BID.**

Acknowledge receipt of this addendum by inserting these pages with your bid.

This addendum form is a part of the contract documents and it so modifies, amends, deletes and/or adds to the original bid document.

Name and Address of Company:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Authorized Representative:

Signature: \_\_\_\_\_

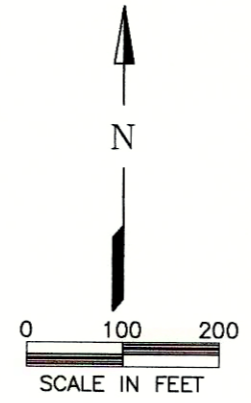
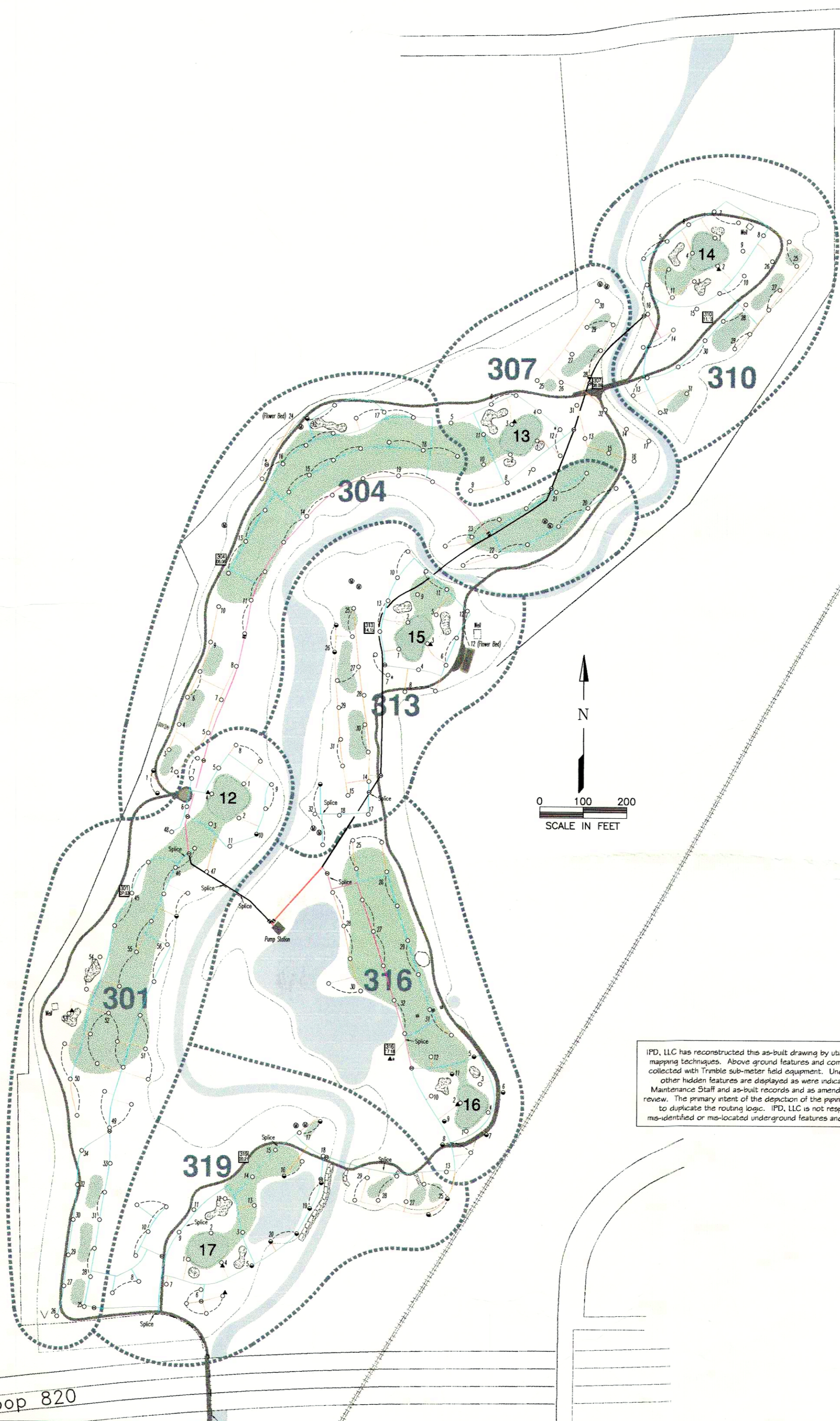
Name: \_\_\_\_\_

Title: \_\_\_\_\_

Phone: \_\_\_\_\_

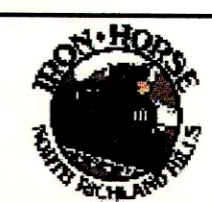
Email: \_\_\_\_\_



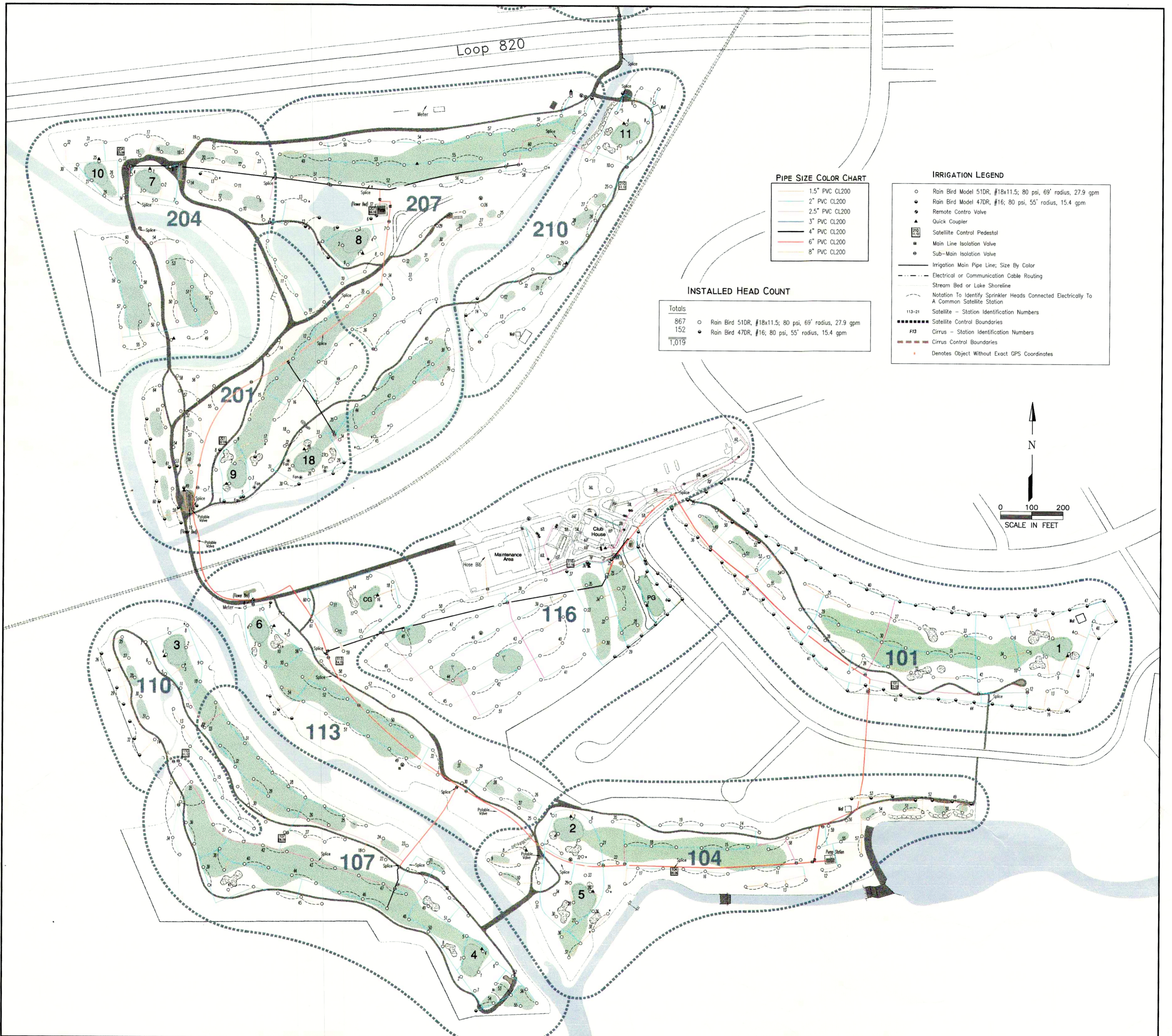


IPD, LLC has reconstructed this as-built drawing by utilizing field GPS mapping techniques. Above ground features and components were collected with Trimble sub-meter field equipment. Underground and other hidden features are displayed as were indicated by the Maintenance Staff and as-built records and as amended after their review. The primary intent of the depiction of the piping is to attempt to duplicate the routing logic. IPD, LLC is not responsible for mis-identified or mis-located underground features and components.

Loop 820







**PIPE SIZE COLOR CHART**

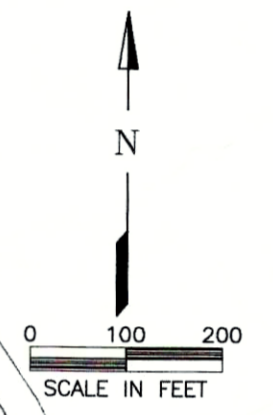
1.5" PVC CL200
2" PVC CL200
2.5" PVC CL200
3" PVC CL200
4" PVC CL200
6" PVC CL200
8" PVC CL200

**INSTALLED HEAD COUNT**

Totals	867	● Rain Bird 51DR, #18x11.5; 80 psi, 69' radius, 27.9 gpm
	152	● Rain Bird 47DR, #16; 80 psi, 55' radius, 15.4 gpm
	1,019	

**IRRIGATION LEGEND**

- Rain Bird Model 51DR, #18x11.5; 80 psi, 69' radius, 27.9 gpm
- Rain Bird Model 47DR, #16; 80 psi, 55' radius, 15.4 gpm
- ▲ Remote Control Valve
- ▲ Quick Coupler
- Satellite Control Pedestal
- Main Line Isolation Valve
- Sub-Main Isolation Valve
- Irrigation Main Pipe Line; Size By Color
- - - Electrical or Communication Cable Routing
- Stream Bed or Lake Shoreline
- Notation To Identify Sprinkler Heads Connected Electrically To A Common Satellite Station
- 113-21 Satellite - Station Identification Numbers
- Satellite Control Boundaries
- F13 Cirrus - Station Identification Numbers
- Cirrus Control Boundaries
- Denotes Object Without Exact GPS Coordinates





## Iron Horse Pre-Bid Meeting – September 17, 2019

<u>Name</u>	<u>Organization</u>	<u>Phone</u>	<u>Email</u>
<b>City of North Richland Hills</b>			
Vicki Loftice		817-427-6624	VLOFTICE@nrhtx.com
Joe Pack	NRH	817-427-6622	jpack@nrhtx.com
Bill Thornton			BTHORNTON@nrhtx.com
Robert Fleetwood	Fleetwood Service LLC	469-865-4721	robert@fleetwoodservice.net
Mark Creighton	Ewing Irrigation	214-697-4896	MCreighton@EwingIrrigation.com
Bill Hardy	Vm Golf	832-269-4345	whardy@VmGolfServices.com
James Sales	Vm Golf	210-630-7261	
ANTONIO EVANGELISTA	NRH	817-427-6642	AEVANGELISTA@NRHTX.com
Scott Kendall	NRH	817-427-6156	skendall@nrhtx.com
<b>Iron Horse Golf Course</b>			
Jerrold Gibson	Arcis Golf	682-365-3245	jgibson@arcisgolf.com
Kevin Lindsey	Arcis Golf	817-992-8921	KLindsey@arcisgolf.com
<b>Consultant</b>			
Jeffrey D Brauer	GolfScapes, Inc.	817-797-6376	jeff@jeffreydbrauer.com
Larry Collins			
<b>Other Suppliers</b>			
CHAD FISHER	RAIN BIRD LONGHORN INC	713.551.6197	cfisher@longhorninc.com
<b>Bidders</b>			







**Iron Horse Golf Course Improvements Project  
North Richland Hills, Texas**

**RFB 20-002- SEPTEMBER 23, 2019**

**ADDENDUM NO. 4**

**ADD INFORMATION PROVIDED BELOW TO SCHEDULE F, C. TEE CONSTRUCTION, B.-  
TEE MIX 4" DEPTH ITEMS PURCHASE AND PLACE/INSTALL.**

*Place the number 67,400 in the estimated quantity line for each item. The itemized bid form has been corrected and highlighted in yellow.*

**ADD INFORMATION PROVIDED BELOW TO PAGE 137 OF THE TECHNICAL  
SPECIFICATIONS:**

*The Harco lateral swivel valve on EF saddle, 3" and 2 ½" have been removed as they were accidentally repeated from page 136.*

**ADD INFORMATION PROVIDED BELOW TO THE ITEMIZED BID FORM:**

**Schedule B- Brushing, Clearing and Demo, A Clearing and Grubbing.**

*Round Up/Till Existing Turf (Bid Allowance of 5 AC), Estimated Quantity is 5 AC. The itemized bid form has been corrected and highlighted in yellow.*

**ADD INFORMATION PROVIDED BELOW TO PAGE 89 OF THE TECHNICAL  
SPECIFICATIONS.**

*Accessories, I. Expansion Joints. ½" by 4" Zip Strips to be caulked with approved silicone caulk. All reference to details and specifications should place all expansion joints in the cart path to 50' c.c.*

**ADD INFORMATION PROVIDED BELOW TO THE ITEMIZED BID FORM:**

**Schedule G Soil Prep, Fertilize, Grass, Sod- A. Rock and Debris Removal, Fine Grad, Prepare Seedbed Fairways and Rough. Shaded areas have been added to the description to read Fairways, Roughs and Shaded Areas. The changes to the Itemized bid form are highlighted in yellow.**

**ADD INFORMATION PROVIDED BELOW TO THE ITEMIZED BID FORM:**

**Schedule G Soil Prep, Fertilize, Grass, Sod- C. Grassing-Fairway and Rough (419) The estimated quantity is changed to 18 AC. The change to the Itemized bid form is highlighted in yellow.**

**Schedule G Soil Prep, Fertilize, Grass, Sod- C. Grassing-**

**Steep Banks/Mounds (Double Rate 419 sprigs)** The estimated quantity is 1 AC. The change to the itemized bid form is **highlighted in yellow.**

**Shade Allowance.** The Quantity has been changed to 2 and the unit remains as AC. The stabilization product has been added to the description, which is Futerra TRM netting or approved equal. The changes to the itemized bid form is **highlighted in yellow.**

**Schedule G Soil Prep, Fertilize, Grass, Sod- D. Sod-**

**Tee Surface- Shade Zoysia.**-The line is to be deleted entirely with the Quantity being zero (0). All 67,400 SF of the Tees are to be sprigged with 419. The changes to the bid form have been **highlighted in yellow.**

**ADD INFORMATION PROVIDED BELOW TO PAGE 45 OF THE TECHNICAL SPECIFICATIONS:**

**B. Topsoil Management- Stripping Topsoil and Stockpiles-** Amend the first sentence to read, “Topsoil shall be stripped at an average of 1”, where available , and all available topsoil shall be taken from areas where greater amounts of topsoil are available.

**ADD INFORMATION PROVIDED BELOW TO PAGE 65 OF THE TECHNICAL SPECIFICATIONS:**

**Testing-** Amend the first sentence to read, The Contractor shall make sure Top Mix is pre-tested at supplier for general conformance. The Owner will arrange for on- site testing of delivered samples a least one month before the first scheduled placement.

**Testing-** Amend the third paragraph to read, The Owner shall submit the materials to a USGA approved testing laboratory of its choosing. The owner will be fiscally responsible for all testing under this section.

**ADD INFORMATION PROVIDED BELOW TO PAGE 92 OF THE TECHNICAL SPECIFICATIONS:**

**A General-** Add an additional bullet at the beginning to read, The Owner will be responsible for hiring and compensating an independent testing laboratory for the required tests outlined in these specifications.

**ADD THE ATTACHMENTS: FINAL DETAILED BASE BID FORM WITH QUANTITIES IN EXCEL AND PDF. THESE FORMS WILL BECOME THE FINAL BID FORM WITH QUANTITIES AND WILL REPLACE THE ORIGINAL.** Areas highlighted in yellow have been changed.

**ADD THE ATTACHMENT: FINAL BID AND ALTERNATE FORM ADDENDUM 4. THIS FORM WILL BECOME THE FINAL BID AND ALTERNATE FORM AND WILL REPLACE THE ORIGINAL.** Areas highlighted in yellow have been changed.

**ADD THE ATTACHMENT: ADDENDUM 4 DETAIL LOW WATER CROSSING MULTIPLE PIPE INLET**



**THIS ADDENDUM MUST BE SIGNED AND RETURNED WITH YOUR BID.**

Acknowledge receipt of this addendum by inserting these pages with your bid.

This addendum form is a part of the contract documents and it so modifies, amends, deletes and/or adds to the original bid document.

Name and Address of Company:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Authorized Representative:

Signature: \_\_\_\_\_

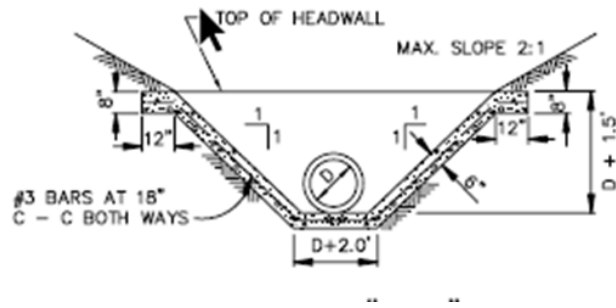
Name: \_\_\_\_\_

Title: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_





SINGLE PIPE INLET AT 16 GREEN (ABOVE) CONCRETE AT SAME SPEC AS CART PATH

- NOTE: HEADWALL CONTAINING PIPE ALSO SLOPED BACK AT APPROX 2:1 SLOPE AS SIDE SLOPES

FOR 4x 36" PIPE CROSSING AT HOLE 13 –

- USE DETAIL ABOVE, PLUS
- PIPES MUST BE ALL ALSO BE SPACED AT DIAMETER + 2 FEET.



# ADDENDUM 5 REVISED BID FORMS

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## BID FORM

### IRON HORSE GOLF COURSE RENOVATION BID FORM

For the acquisition, delivery, installation of materials, labor and cleanup, incidentals and all appurtenances, and guarantee, all per plans and specifications, complete and in place. In the event of additions/deletions to the contract items, the price per unit shall be used to determine change order amounts.

NOTE: Show amount in both written form and figures. In case of discrepancy between the written amount and figure amount, the written amount shall govern. In case of discrepancy between the unit price and the total base bid (LUMP SUM), the unit price shall govern. The dollar amount for unit pricing will be rounded to the nearest penny.

Bidder must submit a bid for **all** alternates. Failure to do so may result in the City deeming such bid to be incomplete and disqualifying same.

All substitutions as an "OR EQUAL" must be approved in writing by the City at least five (5) working days prior to bid opening.

Bidder understands that the quantities of work shown in the schedule of bid items are approximate only and Bidder is expected to verify quantities to its satisfaction prior to submitting their bid. During the project, Owner reserves the right to change quantities during the project.

The undersigned further agrees that the unit prices quoted include all materials and work required to accomplish the projected work and these items include all work indicated on the Plans and Specifications for which no specific pay items have been established. Bidder understands and agrees that the unit prices provided shall be used for all additions and deletions from the accepted option, unless the increase or decrease in quantities exceeds 25% of the original quantity specified or anticipated.

It is understood and agreed that the selection of Base or Alternate Bid(s) shall be at the complete discretion of the City and without recourse by the bidder. The right is reserved by the City as is advantageous to the City, to reject any and all bids, award a contract based upon submitted bids, or to re-bid the contract and to waive any and all formalities.

Bidder acknowledges receipt and incorporation into the bid, the City's "General Provisions" applicable to all construction/demolition Contracts, a complete copy of which is on file in the office of the City Purchasing Agent.

**Addenda:** Contractor acknowledges receipt and incorporation into the bid of addenda as listed below:

Addendum No. \_\_\_ dated \_\_\_\_\_  
Addendum No. \_\_\_ dated \_\_\_\_\_  
Addendum No. \_\_\_ dated \_\_\_\_\_  
Addendum No. \_\_\_ dated \_\_\_\_\_



**PROPOSED BASE CONTRACT PRICE- WITH TORO  
IRRIGATION**

(Transferred from Detailed Bid Form Construction Base Bid Total  
Excluding all Alternate bids on pages10-12)

COMPANY \_\_\_\_\_

CITY shall pay the CONTRACTOR for the performance of the work, subject to additions and deductions by change order or as otherwise provided in the provisions of the contract, in current funds the contract sum of:

\_\_\_\_\_

In words  
  
(\$ \_\_\_\_\_).  
In figures:

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Authorized Representative

SEAL (If bidder is a Corporation)

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Email Address



**PROPOSED BASE CONTRACT PRICE- WITH RAINBIRD  
IRRIGATION**

(Transferred from Detailed Bid Form Construction Base Bid Total  
Excluding all Alternate Bids on pages 10-12)

COMPANY \_\_\_\_\_

CITY shall pay the CONTRACTOR for the performance of the work, subject to additions and deductions by change order or as otherwise provided in the provisions of the contract, in current funds the contract sum of:

\_\_\_\_\_

In words

(\$ \_\_\_\_\_).

In figures:

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Authorized Representative

SEAL (If bidder is a Corporation)

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Email Address



**City of North Richland Hills**  
**BIDDER'S LIST OF PROPOSED SUB-CONTRACTORS**

COMPANY	TYPE	WORK PERFORMED	INSURANCE	PHONE

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**City of North Richland Hills**

**CONTRACTOR'S LIST OF PROPOSED EQUIPMENT**

Required information includes the make, model and year of the equipment proposed / available for use on the project and whether the equipment is owned, leased, rented or borrowed. This form shall be completed and submitted with bid.

<u>EQUIPMENT / VEHICLES TYPE TO BE USED ON THIS PROJECT</u> (not including hand tools, small power tools, wheelbarrows, etc.)	MAKE/ MANUFACTURER	YEAR MODEL	<u>OWNERSHIP:</u> <u>STATUS</u> Owned, Leased, Rented Or Borrowed
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			



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**City of North Richland Hills**

**SUBCONTRACTOR'S LIST OF PROPOSED EQUIPMENT**

Required information includes the make, model and year of the equipment proposed / available for use on the project and whether the equipment is owned, leased, rented or borrowed. This form shall be completed and submitted with bid.

<u>EQUIPMENT / VEHICLES TYPE TO BE USED ON THIS PROJECT</u> (not including hand tools, small power tools, wheelbarrows, etc.)	MAKE/ MANUFACTURER	YEAR MODEL	<u>OWNERSHIP:</u> <u>STATUS</u> Owned, Leased, Rented Or Borrowed
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

City of North Richland Hills

**IRRIGATION UNIT PRICES**

<b>Rain Bird</b>	<b>EA</b>
Rain Bird 900 series IC sprinkler w/1 ½" RB swing joint	
Rain Bird 950 series IC sprinkler, w/1 ½" RB swing joint	
50 Part Circle Heads – Model No. _____	
25 Part Circle Heads – Model No. _____	
1" Quick coupler valve with stabilizer - complete	
<b>Toro</b>	
Toro FLX34-XX8-6 sprinkler w/1 ¼" Toro swing joint	
Toro FLX34-XX-8-6 sprinkler w/1 ¼" Toro swing joint	
50 Part Circle Heads – Model No. _____	
25 Part Circle Heads – Model No. _____	
1" Quick coupler valve with stabilizer - complete	
<b>VALVES MISC</b>	
Harco lateral swivel valve on EF saddle, 3"	
Harco lateral swivel valve on EF saddle, 2 1/2"	
PE 360° lateral isolation valve 2"	
PE 360° lateral isolation valve 1 1/2"	
<b>Mainline Pipe Manufacturer/Model - Resilient Wedge HDPE Stub-out Isolation Valve – or equal (as specified)</b>	
2"	
3"	
4"	
6"	
8"	
10"	



## City of North Richland Hills

12"	
<b>Lateral Pipe</b> – Manufacturer/Model	
2"	
3"	
<b>Mainline Pipe</b> – Manufacturer/Model HDPE DR 13.5 4710 Pipe	
4"	
6"	
8"	
10"	
12"	
<b>Maxi IC cable for underground burial in pipe trench</b>	
Paige Electric ground rod assembly w/grounding gem set	
Paige Electric 96" ground plate assembly w/grounding gem set	
(Qty. 2) Maintenance Radio w/DTMF	
Apple iPad/Verizon WiFi / central control application	
RF/Solar Weather Station	

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**PLAN TO INTEGRATE SECTION A  
CONTROL SYSTEM WITH B AND C**



# ADDENDUM 5

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# ALTERNATE BIDS

## Definition and Intent

An "alternate bid" is an amount proposed by bidders on the Bid Form for modifying the scope, products, materials, equipment, systems or installation methods as for certain activities described in the Contract Documents.

The intent of any alternate bid is to explore alternate construction methods that may be financially beneficial to the Owner, while maintaining the quality and performance requirements for the Project.

## Coordination

The Alternate Bids included in this Section generally describe requirements for changes in scope of work, materials and construction methods necessary to modify the work under consideration in each alternate. Bidders must review the Contract Documents in their entirety to assure that all elements of each alternate bid indicated maintain the quality and performance requirements for the Base Bid. Costs listed by bidders for each alternate must include all costs of related coordination, modification or adjustment.

## When an alternate bid is accepted, Contractor shall:

- \* Construct all work in accordance with Base Bid specifications, except as specifically changed by the acceptance of that alternate bid.
- \* Coordinate and modify adjacent work as necessary, so that the work affected by each accepted alternate is complete and fully integrated into the project.
- \* Include in their bid miscellaneous devices, accessory objects and items incidental to, or required for, a complete installation whether or not specifically mentioned.

## Bid Acceptance

The Owner reserves the right to accept alternate bids at proposed prices, that:

- ❑ Are only ones that it deems in its best interest.
- ❑ Are part of the original bid and award of a contract , or
- ❑ Are accepted after the construction contract is executed, at the same prices proposed here, unless the Contractor demonstrates that later acceptance is inequitable in some way.

# City of North Richland Hills

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## IRRIGATION ADD ALTERNATE NO. 1 – SECTION A

Add: Complete Installation of Irrigation System as depicted on plans for Section A.

Delete: Incorporate Section A Control Package with Section B and C

Total Add \_\_\_\_\_ \$ \_\_\_\_\_

## IRRIGATION ADD ALTERNATE NO. 2 – SECTION B PUMP STATION

Delete: Pump Station in Section B by Owner via Separate Contractor

Add: Complete Installation of Pump Station in Section B by Contractor as depicted on plans. However, note that Owner is still responsible for removing sections of structure required for installation and replacing after pump station, Z Pipe and other appurtenances are installed by Contractor.

Total Add \_\_\_\_\_ \$ \_\_\_\_\_

## IRRIGATION ADD ALTERNATE NO. 3 – GPS STAKING BY ECD

Add: GPS and As Built Plans by Irrigation Designer @ \$22,500 Lump Sum

Delete: Self Perform of GPS and As Built Plans by Contractor

Total Add \_\_\_\_\_ \$ \_\_\_\_\_

## IRRIGATION DEDUCT NO. 1 – WEATHER STATION

Delete: WEATHER STATION FROM SELECTED MANUFACTURER

Add: Nothing

Total Deduct \_\_\_\_\_ \$ \_\_\_\_\_

## IRRIGATION DEDUCT NO. 2 – REPEATERS

Delete: 4 IRRIGATION CONTROL SYSTEM REPEATERS (4 TOTAL)

Add: Nothing

Total Deduct \_\_\_\_\_ \$ \_\_\_\_\_

## GOLF ADD ALTERNATE NO. 1 – LOWER GREEN COLLARS

Delete: Nothing

Add: –Lower green collars for drainage on 17 existing greens to remain, with about 35 total areas, 10-20 foot wide each by width of collar and tie in. Sod back tif tuff collar.

Total Add \_\_\_\_\_ \$ \_\_\_\_\_



# City of North Richland Hills

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## GOLF ADD ALTERNATE NO. 2 – SPRING CORRECTION ABOVE NO. 4

Delete: Nothing

Add: – 250 L.F. of 4" Perforated Pipe, enclosed in pea gravel, tied to 24" Catch Basin Near No. 4 LZ

Total Add \_\_\_\_\_ \$ \_\_\_\_\_

## GOLF ADD/DEDUCT 1 – CAPILARY CONCRETE BUNKER LINERS

Delete: All Better Billy Bunker Liners (Approximately 24,000 S.F.)

Add: Capillary Concrete™ Bunker Liners (Approximately 24,000 S.F.)

Total Add/Deduct \_\_\_\_\_ \$ \_\_\_\_\_

## GOLF ADD/DEDUCT 2 – SOD ENTIRE WORK AREA

Delete: 17.8 AC 4" Screened Topsoil

Add: 16.8 AC (Approx. 734,000 SF net add of 419 SOd, Cut 1.5" (or as deep as practical).

Total Add/Deduct \_\_\_\_\_ \$ \_\_\_\_\_

## 2019-2020 RENOVATION PROJECT DETAILED BASE BID FORM WITH QUANTITIES

BID DATE: September 25, 2019, at 2:00 P.M.

### SCHEDULE A - ACTIVATION AND MOBILIZATION

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A. - MOBILIZATION AND PROJECT MANAGEMENT</b>				
Bonds, Permits, Insurance, License	1	LS		
Mobilization	1	LS		
Staging / Fuel & Material Storage	1	LS		
Project Management & Staking	1	LS		
<b>Schedule Total A</b>				
				\$

### SCHEDULE B - BRUSHING, CLEARING & DEMO

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A. - CLEARING &amp; GRUBBING</b>				
Round Up/Till Ex Turf (Bid Allowance of 5 AC)	5	AC		
Clear/Grub Individual Trees (misc caliper)	125	EA		
Protect Trees to Remain w/ Cable	1	LS		
<b>B - 300 DEMOLITION</b>				
Asphalt Cart Paths & Legally Dispose	11,847	S.F.		
Concrete Cart Paths & Legally Dispose	25,641	S.F.		
<b>Schedule Total B</b>				
				\$

### SCHEDULE C - CUTS AND FILLS/MASS GRADING

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>C - 100 TOPSOIL MANAGEMENT AND MASS GRADING</b>				
<b>A. Topsoil Management</b>				
Strip/Replace (Assume 1" Average)	2,900	CY		
Import Fairway/Rough Topsoil (17.2 Ac)	9,303	CY		
<b>B. Mass Grading - Unclassified Excavation</b>				
Fill (Bank Yards, Cuts 13,440 as per Plan)	10,725	CY		
Weed Control & Dust Control	1	LS		
<b>C. Rough Shaping</b>				
	1	LS		
<b>Schedule Total</b>				
				\$

### SCHEDULE D - DRAINAGE

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A. Drainage Pipe</b>				
4"	2,740	LF		
6"	6,144	LF		
8"	3,357	LF		
10"	3,213	LF		
12"	705	LF		
18"	930	LF		
24"	145	LF		
36"	1,080	LF		
48"	90	LF		

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>B. Drainage Inlet / Outlets</b>				
<b>1. ADS N12 Perf. Risers, 12" Gravel Encased, Light Duty Metal Grates, 3-6 (Max) feet deep</b>				
12"	86	EA		
18"	43	EA		
24"	9	EA		
36"	3	EA		
48"	1	EA		
<b>2. NDS Square Plastic Box XX15 Series Galvanized Grates</b>				
12"	14	EA		
18"	3	EA		
<b>Flared End Sections Inlet - ADS N12 Pre Fab</b>				
10/12"	6	EA		
15"	0	EA		
18"	1	EA		
24"	2	EA		
30"	0	EA		
36"	0	EA		
48"	1	EA		
<b>Small Pipe Outlets w Pipe Cut Flush to Angled Slope</b>				
4", 6" & 8" with rodent guard	18	EA		
<b>Multiple Pipe Concrete Collar (Inlet and Outlet)</b>				
Hole 13 - 4 -36" Collar	2	EA		
Hole 16 - 24" Pipe w Concrete Collar	1	EA		
Hole 16 - Outlet Beveled to Grade at WL	1	EA		
<b>Schedule Total D</b>				\$
<b>SCHEDULE E - ENVIRONMENTAL PROTECTION / SWPPP</b>				
DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A - BONDS AND PERMITS</b>				
SWPPP Plan/Permit/Execution/Maintenance	1	LS		
<b>Schedule Total E</b>				\$
<b>SCHEDULE F - FEATURE CONSTRUCTION</b>				
DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A. - USGA GREENS CONSTRUCTION - Greens and Collars</b>				
<b>A. Perforated Tile</b>				
1. Perforated Tile - 4" w gravel	1,320	LF		
2. Flush Out/Connection Markers (Allow)	6	EA		
<b>B. Pea Gravel Layer</b>				
1. Purchase	13,200	SF		
2. Place / Install	13,200	SF		
<b>C. Greens Mix</b>				
1. Purchase	13,200	SF		
2. Place / Install	13,200	SF		
<b>F. Bio Roll/Silt Fence to Protect Mix</b>				
	300	LF		
<b>H. Interface Liner/Tracer Wire</b>				
	611	LF		
<b>C - TEE CONSTRUCTION</b>				
<b>A. Tee Fine Grade &amp; Laser Level</b>				
	67,400	SF		
<b>B. Tee Mix - 4" Depth</b>				
Purchase	67,400	SF		
Place / Install	67,400	SF		
DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>D. - SAND BUNKERS</b>				
<b>A. Spray Weeds</b>				
	24,000	SF		
<b>B. Perforated Tile - Approx QTY 1 per 20 S.F. of sand bunker</b>				
1. 4"	1,200	LF		
2. Flush Outs/Markers - 2 ea.	34	EA		



DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>C. Cut / Shape 8" Lip, Fine Shape &amp; Compact Bunker Floor</b>				
1. Edge & Shape	24,000	SF		
2. Compact Base	24,000	SF		
<b>D. Better Billy Bunker Liner Furnish &amp; Install</b>	24,000	SF		
<b>E. Sand</b>				
1. Supply	24,000	SF		
2. Placement/Spread	24,000	SF		

**Schedule Total F** \$

**SCHEDULE G - SOIL PREP, FERTILIZE, GRASS, SOD**

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A. Rock &amp; Debris Removal, Fine Grade, Prepare Seedbed</b>				
Greens & Collars	13,200	SF		
Tees	67,400	SF		
Fairways, Roughs & Shade Areas	21	AC		
Steep Banks/Mounds	1	AC		
<b>B. Fertilization and Ammendments</b>				
Greens	13,200	SF		
Tees	67,400	SF		
Fairways & Roughs	21	AC		
Steep Banks/Mounds	1	AC		
<b>C. Grassing</b>				
Greens (Champions)	13,200	SF		
Tees (All 419 Sprigs)	67,400	SF		
Fairways & Rough (419)	18	AC		
Steep Banks/Mounds (Double Rate 419 Sprigs)	1	AC		
Shade Allowance (Fescue Mix) w Futerra TRM net	2	AC		
<b>D. - Sod</b>				
419 Rough @ Greens, Tees, Sand Bunkers	93,665	S.F.		
Green Collars - 3 feet Tif Top	1,700	S.F.		
<del>(Deleted Entirely)</del> Tee Surface - Shade Zoysia	0	S.F.		

**Schedule Total G** \$

**SCHEDULE H - HARDSCAPE**

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>H-200 CART PATH - 5" Depth w #3 Rebar, 4000 PSI. Broom Finish, Contraction Joints Width of Pavement, Exp. Every 50 feet</b>				
<b>A. Cart Path - Subgrade &amp; Pavement -</b>				
7' Width	30,320	SF		
10' Width	16,170	SF		
4" Roll Curb	680	LF		
<b>B. Patching, Saw Cuts, Repair</b>	1	LS		
<b>Schedule Total H</b> \$				

## SCHEDULE I - IRRIGATION SYSTEM

NOTES: 1) SUPPLY LUMP SUM BASE BID FOR BOTH RAIN BIRD AND TORO, OWNER WILL SELECT.

2) BASE BID DOES NOT INCLUDE PUMP STATION IN SECTION B (SUPPLIED BY OWNER), OR ANY DROP Z PIPING ON EXISTING PUMP STATIONS IN SECTION A AND C

3) BASE BID DOES INCLUDE ALL IRRIGATION MAIN LINES, LATERALS, SPRINKLERS AND RELATED EQUIPMENT FOR SECTIONS B AND C ONLY, BUT INCLUDING CONNECTING SECTIONS A AND B, AND B AND C

4) CONTRACTOR WILL INSTALL Z PIPE AT PUMP STATION B AS PART OF BASE BID.

5) CONTRACTOR SHALL REMOVE ALL SPRINKLERS, SATELITES AND RELATED EQUIPMENT.

DESCRIPTION	QTY.	UNIT	COST	AMOUNT
<b>A. - LUMP SUM BID SECTION B &amp; C - RAIN BIRD (Owner's Choice)</b>				
INSTALL & CONNECT Z PIPE ON SECTION B PUMP	1	LS		
IRRIGATION SYSTEM AS SHOWN ON PLAN	1	LS		
INTEGRATE SECTION A CONTROL SYSTEM (Attach Separate Explanation)	1	LS		
<b>B. - LUMP SUM BID SECTION B &amp; C - TORO (Owner's Choice)</b>				
INSTALL & CONNECT Z PIPE ON SECTION B PUMP	1	LS		
IRRIGATION SYSTEM AS SHOWN ON PLAN	1	LS		
INTEGRATE SECTION A CONTROL SYSTEM (Attach Separate Explanation)	1	LS		
<b>Schedule Total I</b>				<b>\$</b>

## SCHEDULE K - PROJECT CLOSE OUT

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
As-Builts/Manuals/Training	1	EA		
Haul Road and Other Turf Repair	1	EA		
Move Out/Equipment Removal	1	EA		
<b>Total Schedule K</b>				<b>\$</b>
<b>Total Construction Bid (with Toro Irrigation)</b>				<b>\$</b>
<b>Total Construction Bid (with Rainbird Irrigation)</b>				<b>\$</b>

# ADDENDUM 5

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# BID FORM

## IRON HORSE GOLF COURSE RENOVATION BID FORM

For the acquisition, delivery, installation of materials, labor and cleanup, incidentals and all appurtenances, and guarantee, all per plans and specifications, complete and in place. In the event of additions/deletions to the contract items, the price per unit shall be used to determine change order amounts.

NOTE: Show amount in both written form and figures. In case of discrepancy between the written amount and figure amount, the written amount shall govern. In case of discrepancy between the unit price and the total base bid (LUMP SUM), the unit price shall govern. The dollar amount for unit pricing will be rounded to the nearest penny.

Bidder must submit a bid for **all** alternates. Failure to do so may result in the City deeming such bid to be incomplete and disqualifying same.

All substitutions as an "OR EQUAL" must be approved in writing by the City at least five (5) working days prior to bid opening.

Bidder understands that the quantities of work shown in the schedule of bid items are approximate only and Bidder is expected to verify quantities to its satisfaction prior to submitting their bid. During the project, Owner reserves the right to change quantities during the project.

The undersigned further agrees that the unit prices quoted include all materials and work required to accomplish the projected work and these items include all work indicated on the Plans and Specifications for which no specific pay items have been established. Bidder understands and agrees that the unit prices provided shall be used for all additions and deletions from the accepted option, unless the increase or decrease in quantities exceeds 25% of the original quantity specified or anticipated.

It is understood and agreed that the selection of Base or Alternate Bid(s) shall be at the complete discretion of the City and without recourse by the bidder. The right is reserved by the City as is advantageous to the City, to reject any and all bids, award a contract based upon submitted bids, or to re-bid the contract and to waive any and all formalities.

Bidder acknowledges receipt and incorporation into the bid, the City's "General Provisions" applicable to all construction/demolition Contracts, a complete copy of which is on file in the office of the City Purchasing Agent.

**Addenda:** Contractor acknowledges receipt and incorporation into the bid of addenda as listed below:

Addendum No. \_\_\_ dated \_\_\_\_\_  
Addendum No. \_\_\_ dated \_\_\_\_\_  
Addendum No. \_\_\_ dated \_\_\_\_\_  
Addendum No. \_\_\_ dated \_\_\_\_\_



**PROPOSED BASE CONTRACT PRICE- WITH TORO  
IRRIGATION**

(Transferred from Detailed Bid Form Construction Base Bid Total  
Excluding all Alternate bids on pages10-12)

COMPANY \_\_\_\_\_

CITY shall pay the CONTRACTOR for the performance of the work, subject to additions and deductions by change order or as otherwise provided in the provisions of the contract, in current funds the contract sum of:

\_\_\_\_\_

In words  
  
(\$ \_\_\_\_\_).  
In figures:

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Authorized Representative

SEAL (If bidder is a Corporation)

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Email Address

**PROPOSED BASE CONTRACT PRICE- WITH RAINBIRD  
IRRIGATION**

(Transferred from Detailed Bid Form Construction Base Bid Total  
Excluding all Alternate Bids on pages 10-12)

COMPANY \_\_\_\_\_

CITY shall pay the CONTRACTOR for the performance of the work, subject to additions and deductions by change order or as otherwise provided in the provisions of the contract, in current funds the contract sum of:

\_\_\_\_\_

In words

(\$ \_\_\_\_\_).

In figures:

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Authorized Representative

SEAL (If bidder is a Corporation)

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Email Address

**City of North Richland Hills**  
**BIDDER'S LIST OF PROPOSED SUB-CONTRACTORS**

COMPANY	TYPE	WORK PERFORMED	INSURANCE	PHONE



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**City of North Richland Hills**

**CONTRACTOR'S LIST OF PROPOSED EQUIPMENT**

Required information includes the make, model and year of the equipment proposed / available for use on the project and whether the equipment is owned, leased, rented or borrowed. This form shall be completed and submitted with bid.

<u>EQUIPMENT / VEHICLES TYPE TO BE USED ON THIS PROJECT</u> (not including hand tools, small power tools, wheelbarrows, etc.)	MAKE/ MANUFACTURER	YEAR MODEL	<u>OWNERSHIP:</u> <u>STATUS</u> Owned, Leased, Rented Or Borrowed
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

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**City of North Richland Hills**

**SUBCONTRACTOR'S LIST OF PROPOSED EQUIPMENT**

Required information includes the make, model and year of the equipment proposed / available for use on the project and whether the equipment is owned, leased, rented or borrowed. This form shall be completed and submitted with bid.

<u>EQUIPMENT / VEHICLES TYPE TO BE USED ON THIS PROJECT</u> (not including hand tools, small power tools, wheelbarrows, etc.)	MAKE/ MANUFACTURER	YEAR MODEL	<u>OWNERSHIP:</u> <u>STATUS</u> Owned, Leased, Rented Or Borrowed
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

City of North Richland Hills

**IRRIGATION UNIT PRICES**

<b>Rain Bird</b>	<b>EA</b>
Rain Bird 900 series IC sprinkler w/1 ½" RB swing joint	
Rain Bird 950 series IC sprinkler, w/1 ½" RB swing joint	
50 Part Circle Heads – Model No. _____	
25 Part Circle Heads – Model No. _____	
1" Quick coupler valve with stabilizer - complete	
<b>Toro</b>	
Toro FLX34-XX8-6 sprinkler w/1 ¼" Toro swing joint	
Toro FLX35-XX-8-6 sprinkler w/1 ¼" Toro swing joint	
50 Part Circle Heads – Model No. _____	
25 Part Circle Heads – Model No. _____	
1" Quick coupler valve with stabilizer - complete	
<b>VALVES MISC</b>	
Harco lateral swivel valve on EF saddle, 3"	
Harco lateral swivel valve on EF saddle, 2 1/2"	
PE 360° lateral isolation valve 2"	
PE 360° lateral isolation valve 1 1/2"	
<b>Mainline Pipe Manufacturer/Model - Resilient Wedge HDPE Stub-out Isolation Valve – or equal (as specified)</b>	
2"	
3"	
4"	
6"	
8"	
10"	

## City of North Richland Hills

12"	
<b>Lateral Pipe</b> – Manufacturer/Model	
2"	
3"	
<b>Mainline Pipe</b> – Manufacturer/Model HDPE DR 13.5 4710 Pipe	
4"	
6"	
8"	
10"	
12"	
<b>Maxi IC cable for underground burial in pipe trench</b>	
Paige Electric ground rod assembly w/grounding gem set	
Paige Electric 96" ground plate assembly w/grounding gem set	
<b>(Qty. 4) Maintenance Radio w/DTMF</b>	
Apple iPad/Verizon WiFi / central control application	
RF/Solar Weather Station	



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**PLAN TO INTEGRATE SECTION A  
CONTROL SYSTEM WITH B AND C**

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# ALTERNATE BIDS

## Definition and Intent

An "alternate bid" is an amount proposed by bidders on the Bid Form for modifying the scope, products, materials, equipment, systems or installation methods as for certain activities described in the Contract Documents.

The intent of any alternate bid is to explore alternate construction methods that may be financially beneficial to the Owner, while maintaining the quality and performance requirements for the Project.

## Coordination

The Alternate Bids included in this Section generally describe requirements for changes in scope of work, materials and construction methods necessary to modify the work under consideration in each alternate. Bidders must review the Contract Documents in their entirety to assure that all elements of each alternate bid indicated maintain the quality and performance requirements for the Base Bid. Costs listed by bidders for each alternate must include all costs of related coordination, modification or adjustment.

## When an alternate bid is accepted, Contractor shall:

- \* Construct all work in accordance with Base Bid specifications, except as specifically changed by the acceptance of that alternate bid.
- \* Coordinate and modify adjacent work as necessary, so that the work affected by each accepted alternate is complete and fully integrated into the project.
- \* Include in their bid miscellaneous devices, accessory objects and items incidental to, or required for, a complete installation whether or not specifically mentioned.

## Bid Acceptance

The Owner reserves the right to accept alternate bids at proposed prices, that:

- ❑ Are only ones that it deems in its best interest.
- ❑ Are part of the original bid and award of a contract , or
- ❑ Are accepted after the construction contract is executed, at the same prices proposed here, unless the Contractor demonstrates that later acceptance is inequitable in some way.

# City of North Richland Hills

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## IRRIGATION ADD ALTERNATE NO. 1 – SECTION A

Add: Complete Installation of Irrigation System as depicted on plans for Section A.

Delete: Incorporate Section A Control Package with Section B and C

Total Add Toro \$ \_\_\_\_\_  
Total Add Rain Bird \$ \_\_\_\_\_

## IRRIGATION ADD ALTERNATE NO. 2 – SECTION B PUMP STATION

Delete: Pump Station in Section B by Owner via Separate Contractor

Add: Contractor to purchase and complete Installation of Pump Station in Section B by Contractor as depicted on plans. However, note that Owner is still responsible for removing sections of structure required for installation and replacing after pump station, Z Pipe and other appurtenances are installed by Contractor.

Total Add \_\_\_\_\_ \$ \_\_\_\_\_

## IRRIGATION ADD ALTERNATE NO. 3 – GPS STAKING BY ECD

Add: GPS and As Built Plans by Irrigation Designer @ \$22,500 Lump Sum

Delete: Self Perform of GPS and As Built Plans by Contractor

Total Add \_\_\_\_\_ \$ \_\_\_\_\_

## IRRIGATION DEDUCT NO. 1 – WEATHER STATION

Delete: WEATHER STATION FROM SELECTED MANUFACTURER

Add: Nothing

Total Deduct \_\_\_\_\_ \$ \_\_\_\_\_

## IRRIGATION DEDUCT NO. 2 – REPEATERS

Delete: 4 IRRIGATION CONTROL SYSTEM REPEATERS (4 TOTAL)

Add: Nothing

Total Deduct \_\_\_\_\_ \$ \_\_\_\_\_

## GOLF ADD ALTERNATE NO. 1 – LOWER GREEN COLLARS

Delete: Nothing

Add: Lower green collars for drainage on 17 existing greens to remain, with about 35 total areas, 10-20 foot wide each by width of collar and tie in. Sod back tif tuff collar.

Total Add \_\_\_\_\_ \$ \_\_\_\_\_

# City of North Richland Hills

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## GOLF ADD ALTERNATE NO. 2 – SPRING CORRECTION ABOVE NO. 4

Delete: Nothing

Add: – 250 L.F. of 4" Perforated Pipe, enclosed in pea gravel, tied to 24" Catch Basin Near No. 4 LZ

Total Add \_\_\_\_\_ \$ \_\_\_\_\_

## GOLF ADD/DEDUCT 1 – CAPILARY CONCRETE BUNKER LINERS

Delete: All Better Billy Bunker Liners (Approximately 24,000 S.F.)

Add: Capillary Concrete™ Bunker Liners (Approximately 24,000 S.F.)

Total Add/Deduct \_\_\_\_\_ \$ \_\_\_\_\_

## GOLF ADD/DEDUCT 2 – SOD ENTIRE WORK AREA

Delete: 17.8 AC 4" Screened Topsoil

Add: 16.8 AC (Approx. 734,000 SF net add of 419 SOD, Cut 1.5" (or as deep as practical).

Total Add/Deduct \_\_\_\_\_ \$ \_\_\_\_\_



## 2019-2020 RENOVATION PROJECT DETAILED BASE BID FORM WITH QUANTITIES

BID DATE: September 25, 2019, at 2:00 P.M.

### SCHEDULE A - ACTIVATION AND MOBILIZATION

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A. - MOBILIZATION AND PROJECT MANAGEMENT</b>				
Bonds, Permits, Insurance, License	1	LS		
Mobilization	1	LS		
Staging / Fuel & Material Storage	1	LS		
Project Management & Staking	1	LS		
<b>Schedule Total A</b>				
				\$

### SCHEDULE B - BRUSHING, CLEARING & DEMO

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A. - CLEARING &amp; GRUBBING</b>				
Round Up/Till Ex Turf (Bid Allowance of 5 AC)	5	AC		
Clear/Grub Individual Trees (misc caliper)	125	EA		
Protect Trees to Remain w/ Cable	1	LS		
<b>B - 300 DEMOLITION</b>				
Asphalt Cart Paths & Legally Dispose	11,847	S.F.		
Concrete Cart Paths & Legally Dispose	25,641	S.F.		
<b>Schedule Total B</b>				
				\$

### SCHEDULE C - CUTS AND FILLS/MASS GRADING

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>C - 100 TOPSOIL MANAGEMENT AND MASS GRADING</b>				
<b>A. Topsoil Management</b>				
Strip/Replace (Assume 1" Average)	2,900	CY		
Import Fairway/Rough Topsoil (17.2 Ac)	9,303	CY		
<b>B. Mass Grading - Unclassified Excavation</b>				
Fill (Bank Yards, Cuts 13,440 as per Plan)	10,725	CY		
Weed Control & Dust Control	1	LS		
<b>C. Rough Shaping</b>				
	1	LS		
<b>Schedule Total</b>				
				\$

### SCHEDULE D - DRAINAGE

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A. Drainage Pipe</b>				
4"	2,740	LF		
6"	6,144	LF		
8"	3,357	LF		
10"	3,213	LF		
12"	705	LF		
18"	930	LF		
24"	145	LF		
36"	1,080	LF		
48"	90	LF		

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>B. Drainage Inlet / Outlets</b>				
<b>1. ADS N12 Perf. Risers, 12" Gravel Encased, Light Duty Metal Grates, 3-6 (Max) feet deep</b>				
12"	86	EA		
18"	43	EA		
24"	9	EA		
36"	3	EA		
48"	1	EA		
<b>2. NDS Square Plastic Box XX15 Series Galvanized Grates</b>				
12"	14	EA		
18"	3	EA		
<b>Flared End Sections Inlet - ADS N12 Pre Fab</b>				
10/12"	6	EA		
15"	0	EA		
18"	1	EA		
24"	2	EA		
30"	0	EA		
36"	0	EA		
48"	1	EA		
<b>Small Pipe Outlets w Pipe Cut Flush to Angled Slope</b>				
4", 6" & 8" with rodent guard	18	EA		
<b>Multiple Pipe Concrete Collar (Inlet and Outlet)</b>				
Hole 13 - 4 -36" Collar	2	EA		
Hole 16 - 24" Pipe w Concrete Collar	1	EA		
Hole 16 - Outlet Beveled to Grade at WL	1	EA		
<b>Schedule Total D</b>				\$
<b>SCHEDULE E - ENVIRONMENTAL PROTECTION / SWPPP</b>				
DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A - BONDS AND PERMITS</b>				
SWPPP Plan/Permit/Execution/Maintenance	1	LS		
<b>Schedule Total E</b>				\$
<b>SCHEDULE F - FEATURE CONSTRUCTION</b>				
DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A. - USGA GREENS CONSTRUCTION - Greens and Collars</b>				
<b>A. Perforated Tile</b>				
1. Perforated Tile - 4" w gravel	1,320	LF		
2. Flush Out/Connection Markers (Allow)	6	EA		
<b>B. Pea Gravel Layer</b>				
1. Purchase	13,200	SF		
2. Place / Install	13,200	SF		
<b>C. Greens Mix</b>				
1. Purchase	13,200	SF		
2. Place / Install	13,200	SF		
<b>F. Bio Roll/Silt Fence to Protect Mix</b>				
	300	LF		
<b>H. Interface Liner/Tracer Wire</b>				
	611	LF		
<b>C - TEE CONSTRUCTION</b>				
<b>A. Tee Fine Grade &amp; Laser Level</b>				
	67,400	SF		
<b>B. Tee Mix - 4" Depth</b>				
Purchase	67,400	SF		
Place / Install	67,400	SF		
DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>D. - SAND BUNKERS</b>				
<b>A. Spray Weeds</b>				
	24,000	SF		
<b>B. Perforated Tile - Approx QTY 1 per 20 S.F. of sand bunker</b>				
1. 4"	1,200	LF		
2. Flush Outs/Markers - 2 ea.	34	EA		

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>C. Cut / Shape 8" Lip, Fine Shape &amp; Compact Bunker Floor</b>				
1. Edge & Shape	24,000	SF		
2. Compact Base	24,000	SF		
<b>D. Better Billy Bunker Liner Furnish &amp; Install</b>	24,000	SF		
<b>E. Sand</b>				
1. Supply	24,000	SF		
2. Placement/Spread	24,000	SF		

**Schedule Total F** \$

**SCHEDULE G - SOIL PREP, FERTILIZE, GRASS, SOD**

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>A. Rock &amp; Debris Removal, Fine Grade, Prepare Seedbed</b>				
Greens & Collars	13,200	SF		
Tees	67,400	SF		
Fairways, Roughs & Shade Areas	21	AC		
Steep Banks/Mounds	1	AC		
<b>B. Fertilization and Ammendments</b>				
Greens	13,200	SF		
Tees	67,400	SF		
Fairways & Roughs	21	AC		
Steep Banks/Mounds	1	AC		
<b>C. Grassing</b>				
Greens (Champions)	13,200	SF		
Tees (All 419 Sprigs)	67,400	SF		
Fairways & Rough (419)	18	AC		
Steep Banks/Mounds (Double Rate 419 Sprigs)	1	AC		
Shade Allowance (Fescue Mix) w Futerra TRM net	2	AC		
<b>D. - Sod</b>				
419 Rough @ Greens, Tees, Sand Bunkers	93,665	S.F.		
Green Collars - 3 feet Tif Top	1,700	S.F.		
<del>(Deleted Entirely)</del> Tee Surface - Shade Zoysia	0	S.F.		

**Schedule Total G** \$

**SCHEDULE H - HARDSCAPE**

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
<b>H-200 CART PATH - 5" Depth w #3 Rebar, 4000 PSI. Broom Finish, Contraction Joints Width of Pavement, Exp. Every 50 feet</b>				
<b>A. Cart Path - Subgrade &amp; Pavement -</b>				
7' Width	30,320	SF		
10' Width	16,170	SF		
4" Roll Curb	680	LF		
<b>B. Patching, Saw Cuts, Repair</b>	1	LS		
<b>Schedule Total H</b> \$				

## SCHEDULE I - IRRIGATION SYSTEM

NOTES: 1) SUPPLY LUMP SUM BASE BID FOR BOTH RAIN BIRD AND TORO, OWNER WILL SELECT.

2) BASE BID DOES NOT INCLUDE PUMP STATION IN SECTION B (SUPPLIED BY OWNER), BUT INCLUDES Z PIPING ON EXISTING PUMP STATIONS IN SECTION A AND C AND B IF SELECTED

3) BASE BID DOES INCLUDE ALL IRRIGATION MAIN LINES, LATERALS, SPRINKLERS AND RELATED EQUIPMENT FOR SECTIONS B AND C ONLY, BUT INCLUDING CONNECTING SECTIONS A AND B, AND B AND C

4) CONTRACTOR WILL INSTALL Z PIPE AT PUMP STATION B AS PART OF BASE BID.

5) CONTRACTOR SHALL REMOVE ALL SPRINKLERS, SATELITES AND RELATED EQUIPMENT.

DESCRIPTION	QTY.	UNIT	COST	AMOUNT
<b>A. - LUMP SUM BID SECTION B &amp; C - RAIN BIRD (Owner's Choice)</b>				
INSTALL & CONNECT Z PIPE ON SECTION B PUMP	1	LS		
IRRIGATION SYSTEM AS SHOWN ON PLAN	1	LS		
INTEGRATE SECTION A CONTROL SYSTEM (Attach Separate Explanation)	1	LS		
<b>B. - LUMP SUM BID SECTION B &amp; C - TORO (Owner's Choice)</b>				
INSTALL & CONNECT Z PIPE ON SECTION B PUMP	1	LS		
IRRIGATION SYSTEM AS SHOWN ON PLAN	1	LS		
INTEGRATE SECTION A CONTROL SYSTEM (Attach Separate Explanation)	1	LS		
<b>Schedule Total I</b>				<b>\$</b>

## SCHEDULE K - PROJECT CLOSE OUT

DESCRIPTION	EST. QTY.	UNIT	UNIT COST	AMOUNT
As-Builts/Manuals/Training	1	EA		
Haul Road and Other Turf Repair	1	EA		
Move Out/Equipment Removal	1	EA		
<b>Total Schedule K</b>				<b>\$</b>
<b>Total Construction Bid (with Toro Irrigation)</b>				<b>\$</b>
<b>Total Construction Bid (with Rainbird Irrigation)</b>				<b>\$</b>