



**COUNTY OF HENRICO  
DEPARTMENT OF FINANCE  
PURCHASING DIVISION  
CONTRACT EXTRACT  
NOTICE OF AWARD/RENEWAL**

DATE:	October 15, 2024
CONTRACT COMMODITY/SERVICE: <i>(include contracting entity if cooperative)</i>	Fence Replacement Services (Secondary)
CONTRACT NUMBER:	2259B
COMMODITY CODE:	988.15
CONTRACT PERIOD:	November 1, 2024 through October 31, 2025
RENEWAL OPTIONS:	One (1) Remaining, through October 31, 2026
USER DEPARTMENT:	County, HCPS
Contact Name:	Brian Friedel
Phone Number:	804-229-7910
Email Address:	fri059@henrico.gov
HENRICO COOPERATIVE TERMS INCLUDED:	Yes
SUPPLIER: Name:	Tennis Courts, Incorporated
Address:	PO Box 297, 7421 Richmond-Tappahannock Hwy
City, State:	Aylett, VA 23009
Contact Name:	Cammie Osburn Vaughan, cammie@tenniscourtsinc.net
Phone Number:	804-730-1922
Email address:	vafencecontractorsinc@gmail.com
ORACLE SUPPLIER NUMBER:	10053
BUSINESS CATEGORY:	Small Business
PAYMENT TERMS:	Net 30
DELIVERY:	As needed and Requested
FOB:	Destination
BUYER: Name:	Justin M. Herbaugh, VCO, VCA
Title:	Procurement Analyst II
Phone:	804-501-5680
Email:	Her034@henrico.gov

This contract is the result of a competitive solicitation issued by the Department of Finance, Purchasing Division. A requisition must be generated for all purchases made against this contract and the requisition must reference the contract number.

**PRICE SCHEDULE – CONTRACT NO. 2259B**

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Item #	Description	Fence Height	Unit Cost	Unit Type
<b>Lot A</b>				
1	Materials and Installation of new 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	6'	\$58.00	per Linear Foot
2	<i>Demolition &amp; Hauling of chainlink fabric</i>		\$8.00	per Linear Foot
3	<i>Demolition &amp; Hauling of posts</i>		\$100.00	per Post
4	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric (Assume 12' opening)</b>		\$183.00	per Linear Foot
5	Materials and Installation of new 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	8'	\$75.00	per Linear Foot
6	<i>Demolition &amp; Hauling of chainlink fabric</i>		\$12.00	per Linear Foot
7	<i>Demolition &amp; Hauling of posts</i>		\$120.00	per Post
8	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric (Assume 12' opening)</b>		\$215.00	per Linear Foot
9	Materials and Installation of new 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	10'	\$90.00	per Linear Foot
10	<i>Demolition &amp; Hauling of chainlink fabric</i>		\$15.00	per Linear Foot
11	<i>Demolition &amp; Hauling of posts</i>		\$150.00	per Post
12	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric (Assume 12' opening)</b>		\$235.00	per Linear Foot
13	Materials and Installation of new 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	12'	\$105.00	per Linear Foot
14	<i>Demolition &amp; Hauling of chainlink fabric</i>		\$18.00	per Linear Foot
15	<i>Demolition &amp; Hauling of posts</i>		\$170.00	per Post
16	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric (Assume 12' opening)</b>		\$275.00	per Linear Foot
17	<b>Materials and Installation of new Backstop - 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric with Posts Included as Required</b>	10'	\$120.00	per Linear Foot
18	<i>Demolition &amp; Hauling of back stop fabric</i>		\$20.00	per Linear Foot
19	<i>Demolition &amp; Hauling of back stop framing</i>		\$75.00	per Linear Foot
20	<b>Materials and Installation of new Backstop - 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric with Posts Included as Required</b>	15'	\$200.00	per Linear Foot
21	<i>Demolition &amp; Hauling of back stop fabric</i>		\$30.00	per Linear Foot
22	<i>Demolition &amp; Hauling of back stop framing</i>		\$95.00	per Linear Foot
23	<b>Materials and Installation of new Backstop - 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric with Posts Included as Required</b>	20'	\$325.00	per Linear Foot
24	<i>Demolition &amp; Hauling of back stop fabric</i>		\$55.00	per Linear Foot
25	<i>Demolition &amp; Hauling of back stop framing</i>		\$110.00	per Linear Foot
26	<b>Materials and Installation of new Backstop - 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric with Posts Included as Required</b>	25'	\$440.00	per Linear Foot
27	<i>Demolition &amp; Hauling of back stop fabric</i>		\$90.00	per Linear Foot
28	<i>Demolition &amp; Hauling of back stop framing</i>		\$130.00	per Linear Foot
29	<b>Materials and Installation of new Backstop - 9 GA. 2oz Galvanized (2" mesh) Chain Link Fabric with Posts Included as Required</b>	30'	\$550.00	per Linear Foot
30	<i>Demolition &amp; Hauling of back stop fabric</i>		\$140.00	per Linear Foot
31	<i>Demolition &amp; Hauling of back stop framing</i>		\$150.00	per Linear Foot

32	Materials and Installation of new 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	6'	\$68.00	per Linear Foot
33	<i>Demolition &amp; Hauling of chainlink fabric</i>		\$10.00	per Linear Foot
34	<i>Demolition &amp; Hauling of posts</i>		\$100.00	per Post
35	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric (Assume 12' opening)</b>		\$225.00	per Linear Foot
36	Materials and Installation of new 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	8'	\$90.00	per Linear Foot
37	<i>Demolition &amp; Hauling of chainlink fabric</i>		\$12.00	per Linear Foot
38	<i>Demolition &amp; Hauling of posts</i>		\$120.00	per Post
39	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric (Assume 12' opening)</b>		\$270.00	per Linear Foot
40	Materials and Installation of new 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	10'	\$108.00	per Linear Foot
41	<i>Demolition &amp; Hauling of chainlink fabric</i>		\$15.00	per Linear Foot
42	<i>Demolition &amp; Hauling of posts</i>		\$150.00	per Post
43	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric (Assume 12' opening)</b>		\$310.00	per Linear Foot
44	Materials and Installation of new 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	12'	\$140.00	per Linear Foot
45	<i>Demolition &amp; Hauling of chainlink fabric</i>		\$20.00	per Linear Foot
46	<i>Demolition &amp; Hauling of posts</i>		\$170.00	per Post
47	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric (Assume 12' opening)</b>		\$369.00	per Linear Foot
48	Materials and Installation of new <b>Backstop</b> - 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	10'	\$145.00	per Linear Foot
49	<i>Demolition &amp; Hauling of back stop fabric</i>		\$20.00	per Linear Foot
50	<i>Demolition &amp; Hauling of back stop framing</i>		\$75.00	per Linear Foot
51	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric (Assume 12' opening)</b>		\$310.00	per Linear Foot
52	Materials and Installation of new <b>Backstop</b> - 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	15'	\$165.00	per Linear Foot
53	<i>Demolition &amp; Hauling of back stop fabric</i>		\$40.00	per Linear Foot
54	<i>Demolition &amp; Hauling of back stop framing</i>		\$95.00	per Linear Foot
55	Materials and Installation of new <b>Backstop</b> - 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	20'	\$410.00	per Linear Foot
56	<i>Demolition &amp; Hauling of back stop fabric</i>		\$50.00	per Linear Foot
57	<i>Demolition &amp; Hauling of back stop framing</i>		\$110.00	per Linear Foot
58	Materials and Installation of new <b>Backstop</b> - 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	25'	\$510.00	per Linear Foot
59	<i>Demolition &amp; Hauling of back stop fabric</i>		\$70.00	per Linear Foot
60	<i>Demolition &amp; Hauling of back stop framing</i>		\$130.00	per Linear Foot
61	Materials and Installation of new <b>Backstop</b> - 9 GA. Fusion Bonded/Polyolefin Coated (2" mesh) Chain Link Fabric <b>with Posts Included as Required</b>	30'	\$630.00	per Linear Foot
62	<i>Demolition &amp; Hauling of back stop fabric</i>		\$100.00	per Linear Foot



63	Demolition & Hauling of Jack stop framing		\$150.00	per Linear Foot
Item #	Description	Fence Height	Unit Cost	Unit Type
<b>Lot B</b>				
64	Materials and Installation of new Ornamental Fencing (Industrial Grade .075 Wall) <b>with Posts Included as Required</b>	4'	\$150.00	per Linear Foot
65	Demolition & Hauling of sections		\$20.00	per Linear Foot
66	Demolition & Hauling of posts		\$90.00	per Post
67	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, Ornamental Fencing (Industrial Grade .075 Wall) (Assume 12' opening)</b>		\$380.00	per Linear Foot
68	Materials and Installation of new Ornamental Fencing (Industrial Grade .075 Wall) <b>with Posts Included as Required</b>	6'	\$165.00	per Linear Foot
69	Demolition & Hauling of sections		\$20.00	per Linear Foot
70	Demolition & Hauling of posts		\$100.00	per Post
71	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, Ornamental Fencing (Industrial Grade .075 Wall) (Assume 12' opening)</b>		\$465.00	per Linear Foot
72	Materials and Installation of new Ornamental Fencing (Industrial Grade .075 Wall) <b>with Posts Included as Required</b>	8'	\$200.00	per Linear Foot
73	Demolition & Hauling of sections		\$25.00	per Linear Foot
74	Demolition & Hauling of posts		\$120.00	per Post
75	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, Ornamental Fencing (Industrial Grade .075 Wall) (Assume 12' opening)</b>		\$580.00	per Linear Foot
Item #	Description	Fence Height	Unit Cost	Unit Type
<b>Lot C</b>				
76	Materials and Installation of new PolyVinyl Chloride ("PVC") Fence <b>with Posts Included as Required</b>	4'	\$60.00	per Linear Foot
77	Demolition & Hauling of sections		\$18.00	per Linear Foot
78	Demolition & Hauling of posts		\$120.00	per Post
79	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, PolyVinyl Chloride ("PVC") Fence (Assume 12' opening)</b>		\$285.00	per Linear Foot
80	Materials and Installation of new PolyVinyl Chloride ("PVC") Fence <b>with Posts Included as Required</b>	6'	\$65.00	per Linear Foot
81	Demolition & Hauling of sections		\$20.00	per Linear Foot
82	Demolition & Hauling of posts		\$140.00	per Post
83	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, PolyVinyl Chloride ("PVC") Fence (Assume 12' opening)</b>		\$320.00	per Linear Foot
84	Materials and Installation of new PolyVinyl Chloride ("PVC") Fence <b>with Posts Included as Required</b>	8'	\$85.00	per Linear Foot
85	Demolition & Hauling of sections		\$25.00	per Linear Foot
86	Demolition & Hauling of posts		\$160.00	per Post
87	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, PolyVinyl Chloride ("PVC") Fence (Assume 12' opening)</b>		\$395.00	per Linear Foot
Item #	Description	Fence Height	Unit Cost	Unit Type
<b>Lot D</b>				
88	Materials and Installation of new Wood Corral Fencing (4x4 posts with 1x6 Rough Cut Pine) <b>with Posts Included as Required</b>	4'	\$29.00	per Linear Foot
89	Demolition & Hauling of sections		\$10.00	per Linear Foot
90	Demolition & Hauling of posts		\$100.00	per Post

91	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, Wood Corral Fencing (4x4 posts with 1x6 Rough Cut Pine) (Assume 12' opening)</b>		\$210.00	per Linear Foot
92	<b>Materials and Installation of new Wood Treated privacy Fence with Posts Included as Required</b>	6'	\$40.00	per Linear Foot
93	<i>Demolition &amp; Hauling of sections</i>		\$15.00	per Linear Foot
94	<i>Demolition &amp; Hauling of posts</i>		\$110.00	per Post
95	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, Wood Treated Privacy Fence (Assume 12' opening)</b>		\$250.00	per Linear Foot
96	<b>Materials and Installation of new Wood Treated privacy Fence with Posts Included as Required</b>	8'	\$55.00	per Linear Foot
97	<i>Demolition &amp; Hauling of sections</i>		\$20.00	per Linear Foot
98	<i>Demolition &amp; Hauling of posts</i>		\$120.00	per Post
99	<b>(PER LINEAR FOOT) Materials and Installation of new gates including posts and hardware, Wood Treated Privacy Fence (Assume 12' opening)</b>		\$320.00	per Linear Foot

C. Cooperative Procurement.

This procurement is being conducted by the County of Henrico, Virginia on behalf of all other public bodies of the Commonwealth of Virginia in accordance with the provisions of 2.2-4304 of the Code of Virginia, as amended. If agreed to by the Successful Bidder, other public bodies of the Commonwealth of Virginia may make purchases under the resulting contract at the prices set forth herein and in accordance with its terms, conditions and specifications, subject to any modifications necessary to comply with local policy or practice to which the Successful Bidder agrees. The Successful Bidder shall deal directly with any public body it authorizes to use the resulting contract. The County, its officials and its staff are not responsible for placement of orders, invoicing, payments, contractual disputes, or any other transactions between the Successful Bidder and any other public bodies, and in no event shall the County, its officials or staff be responsible for any costs, damages or injury resulting to any party from use of a County contract. The County assumes no responsibility for any notification of the availability of the resulting contract for use by other public bodies, but the Successful Bidder may conduct such notification.

D. Specifications.

1. Fences, Gates and Accompanying Hardware.

**LOT A**

a. Galvanized Chain Link Fence and Gates.

- i. All chain link fence shall be galvanized and must comply with standards of the Chain Link Fence Manufacturer's Institute.
- ii. Fence, gate(s) and accompanying hardware should be provided as a complete system produced by a single manufacturer, including necessary erection accessories, fittings, and fastenings.
- iii. Comply with ASTM A-53 for requirements of Schedule 40 piping.
- iv. Height of fence shall be measured from the top of concrete footing to the top of post.
- v. Provide fabric in one-piece heights for fence heights up to 10 feet measured between top and bottom of outer edge of selvage knuckle or twist. Comply with ASTM A 392, CLFMI CLF 2445, and requirements indicated below:
  1. Steel Wire Fabric: Galvanized wire, 0.148" (9 gauge) diameter for fences;
  2. 2" mesh size for fabric; and
  3. Knuckled top and bottom for Selvages.
- vi. Gate frames shall be assembled with fully coped welds. All ferrous metal components shall be SSPC-6 commercial blast cleaned.
- vii. Gate Hardware;
  1. Hinges: non-lift-off type, offset to permit 180-degree swing, and of suitable size and weight to support gate. Provide 1-1/2 pair of hinges for each leaf over 6 feet high.

2. Latches: plunger bar type complete with flush plate set in concrete for all double gates and single gates over 10'. Padlock eye shall be an integral part of latch construction. A flush plate shall be set in concrete for both the full open position and full closed position.
- viii. Miscellaneous Materials and Accessories
1. Post tops: Steel, wrought iron, or malleable iron are considered acceptable.
  2. Stretcher Bars: one piece equal to full height of fabric, minimum cross-section 3/16" by 3/4".
  3. Metal Bands: steel, wrought iron, or malleable iron are considered acceptable. Shall be used to secure stretcher bars to end, corner, pull and gate posts.
  4. Wire Ties: shall be used for tying fabric to line posts, rails and braces and made of 9-gauge steel wire with matching chain link finish.
  5. Bolts and Nuts: shall conform to ASTM A-307, Grade A.
- ix. All installation procedures shall follow a uniform process. Refer to Attachment F for details.
- b. Fusion Bonded Chain Link Fence and Gates.
- i. All chain link fence shall be thermally bonded polyvinyl chloride (PVC), plastic resin finish over galvanized steel wire and must Comply with standards of the Chain Link Fence Manufacturer's Institute.
  - ii. All gates and gate hardware shall be powder coated.
  - iii. Fence, gate(s) and accompanying hardware should be provided as a complete system produced by a single manufacturer, including necessary erection accessories, fittings, and fastenings.
  - iv. Comply with ASTM A-53 for requirements of Schedule 40 piping.
  - v. Height of fence shall be measured from the top of concrete walk or finish grade to the top of post.
  - vi. Provide fabric in one-piece heights for fence heights up to 10 feet measured between top and bottom of outer edge of selvage knuckle or twist. Comply with ASTM A 392, CLFMI CLF 2445, and requirements indicated below:
    1. Steel Wire Fabric: Galvanized wire, 0.148" (9 gauge) diameter for fences;
    2. 2" mesh size for fabric; and
    3. Knuckled top and bottom for Selvages.
  - vii. Gate frames shall be assembled with fully coped welds. All ferrous metal components shall be SSPC-6 commercial blast cleaned.
- viii. Gate Hardware;
1. Hinges: non-lift-off type, offset to permit 180-degree swing, and of suitable size and weight to support gate. Provide 1-1/2 pair of hinges for each leaf over 6 feet high.
  2. Latches: plunger bar type complete with flush plate set in concrete for all double gates and single gates over 10'. Padlock eye shall be an integral part of latch construction. A flush plate shall be set in concrete for both the full open position and full closed position.

- ix. Miscellaneous Materials and Accessories
  - 1. Post tops: Steel, wrought iron, or malleable iron are considered acceptable.
  - 2. Stretcher Bars: one piece equal to full height of fabric, minimum cross-section 3/16" by 3/4".
  - 3. Metal Bands: steel, wrought iron, or malleable iron are considered acceptable. Shall be used to secure stretcher bars to end, corner, pull and gate posts.
  - 4. Wire Ties: shall be used for tying fabric to line posts, rails and braces and made of 9-gauge steel wire with matching chain link finish.
  - 5. Bolts and Nuts: shall conform to ASTM A-307, Grade A.
- x. All installation procedures shall follow a uniform process. Refer to Attachment G for details.

## **LOT B**

- c. Ornamental Picket Fence, Gates and Accompanying Hardware.
  - i. Pickets: Fabricated of galvanized steel tubular members per ASTM A787 with a G90 zinc coating 0.90 oz/ft<sup>2</sup> and steel to have 45,000 psi (310 MPa) yield strength. Picket size shall be 3/4" or 5/8" sq x 16 or 18-gauge wall thickness and spaced at 4" O.C. Pickets shall be attached to rails using 1/4" industrial drive rivets.
  - ii. Rails: Horizontal U" channels shall be 1/2" x 1-1/2", 1/8" 15-gauge wall thickness and galvanized: G90 zinc coating 0.90 oz/ft<sup>2</sup>, manufactured per ASTM A-653/A-653M with a 50,000 psi (344 MPa) yield strength. Rails shall be mechanically punched to receive pickets and drive rivets. Attach rails to brackets using one-way security fastener.
  - iii. Posts: Fabricated of galvanized square steel tubular members per ASTM A787 with a G90 zinc coating, 0.90 oz/ ft<sup>2</sup> and steel to have 45,000 psi (310 MPa) yield strength. Post size 3" sq x 14-gauge wall thickness.
  - iv. Finish: All posts, caps and fence panels shall be polyester coated individually after fabrication to thoroughly coat all surfaces for additional corrosion protection. All components enter a 5 stage in line cleaning process to prepare the galvanized surfaces for complete adhesion of the finish coat. Components are given a TGIC polyester resin powder coating applied by the electrostatic spray process to 3.0 mil thickness. The finish is baked in an oven for 15 - 20 minutes at a temperature ranging from 400°F. Color: Black.
  - v. Gates shall consist of ornamental picket swing gates to match the style and color of fence.
  - vi. Miscellaneous Materials and Accessories
    - 1. Post Caps: Aluminum or formed steel manufactured to form a weather-tight closure. Caps shall be flat top style on each post.
    - 2. Rail/Post Brackets: Standard 1/2" x 1-1/2" galvanized steel channels. Cover to be pressed to bracket for permanent installation. Bracket shall be fastened to post with one galvanized hex bolt. Rails shall be attached to bracket with one-way security fastener.
    - 3. Rings: Cast aluminum rings attached to rails by insertion of mounting block into upper rail. Rings attached to rails with standard drive rivet to prevent removal.



4. Pickets shall be secured to rails with 1/4-inch aluminum industrial drive rivets to prevent movement. Rivets have a sheer strength of 1,500# and a holding power of 1,100#.
  5. Finial Tops of Pickets: Cast aluminum, attached to pickets by 1/4" rivets. All finials extend 6" above rail.
  6. Picket Tops shall be pointed top.
- vii. All installation procedures shall follow a uniform process. Refer to Attachment H for details.

### LOT C

- d. Polyvinyl Chloride Fencing, Gates and Accompanying Hardware.
- i. All chain link fence shall be thermally bonded polyvinyl chloride (PVC), and must Comply with standards of the Chain Link Fence Manufacturer's Institute.
  - ii. Fence, gate(s) and accompanying hardware should be provided as a complete system produced by a single manufacturer, including necessary erection accessories, fittings, and fastenings.
  - iii. All installed hardware shall comply with the following requirements:
    1. Extruded PVC: ASTM D4726 Hollow, multi-chambered sections of extruded polyvinyl chloride (PVC), with integral ultra-violet degradation resistance.
    2. Top and bottom Rails: Slotted, 2" x 7" extruded PVC, with concealed aluminum or galvanized steel support frame.
    3. Mid-Rail: 1 1/2"x5 1/2" extruded PVC
    4. Pickets: Tongue and groove; 7/8" x 6" extruded PVC.
    5. Posts: 5" x 5" extruded.
  - iv. Gates shall conform to Manufacturer's standard assembly with concealed aluminum or galvanized steel support frame. Use of corner fittings is not permitted. Gates shall permit 200-degree swing.
  - v. Gate Hardware:
    1. Provide lockable latching mechanism to accept padlock.
  - vi. All installation procedures shall follow a uniform process. Refer to Attachment H for details.

### LOT D

- e. Wooden Corral Fence.
- i. Board Spacing: The top of the top board shall be at least 48" above ground level. Install 4 horizontal boards or rails spaced approximately 9 inches apart. Stagger rail joints so they don't hit the same on every post. Install a vertical face board to convert joints on every post and two on corners.
  - ii. Type of Board: The horizontal boards shall be a minimum of 1" x 6". Lumber shall be treated with a preservative treatment that meets the American Wood Preservers' Association

(AWPA) UC4A/UC3B standard. If painting is desired, lumber shall be treated with an anti-fungal agent or a waterborne preservative such as acid copper chromate, not creosote.

- iii. Post Spacing, Length, and Depth: Space posts apart to accommodate selected rail length. Rail length may range between 8' and 10'. Wood posts must have a minimum length of 6' and set or driven to a minimum depth of 24". When posts are set, mixed concrete shall be placed back around posts and held a minimum of 3" down from grade. Topsoil shall be placed on upper 3" and seeded with fescue.
  - iv. Line Posts: All wooden posts (except red cedar, Osage Orange, or black locust) shall be treated according to use category UC4A of the AWPA (American Wood Protection Association) UC3A refers to exterior construction, above ground, uncoated or poor water run-off. UC4A refers to ground contact or fresh water, non-critical components. At least half the diameter of red cedar shall be heartwood. Quality of treated wood shall provide sufficient strength and last for the expected life of the fence. If ACQ preservative is used, Successful Bidder(s) shall not allow aluminum wires or staples to be used with this treated wood. Only galvanized metals shall be used.
  - v. Fasteners: Attach each rail or horizontal board with two 16d galvanized or equivalent treated nails or screws. On each post install a face board with one nail in each horizontal plank. A minimum of two nails or screws in each horizontal rail and at least six nails or screws in the face board (for a total of at least 18 nails or screws) per post must be used for a four (4) rail fence.
  - vi. Cost to paint or stain shall be included.
- f. Wooden Privacy Fence.
- i. All materials shall be treated wood, or wood of natural resistance to decay, hot-dip galvanized steel, or plastic materials. Installation and durability standards for plastic fencing material shall meet all manufacturer's standards and specifications, which standards and specifications must also meet all requirements for approval of fence materials under the county building code. All wood shall be construction grade 2 or better.
  - ii. Fence posts shall consist of one of the following for a 5'-6 1/2' fence: 4"x4" wood post or 1 7/8" diameter steel pipe with a wall thickness of .120"; or 1 7/8" square standard gauge steel pipe with a wall thickness of .120". Fence posts shall consist of one of the following for a fence over 6 1/2' -8': 4"x4"x6" wood post, or 2 3/8" square standard gauge steel pipe with a wall thickness of .130".
  - iii. Fence posts for a 5'-6 1/2' fence shall be spaced a maximum of 8' on center. Fence posts for a fence over 6 1/2' to 8' tall shall be spaced a maximum of one of the following lengths: if a 4"x 6" wood post is used, the posts shall be spaced 8' on center; or if a 4"x4" wood post is used, the fence posts shall be spaced 6' on center; 2 3/8" diameter steel pipe or 2 3/8" square standard gauge steel pipe is to be spaced a maximum of 8' on center.
  - iv. 4"x4" wood fences posts shall be set in a minimum 10" diameter concrete pier, extending a minimum of 2' deep. Metal posts shall be set in a minimum 8" concrete pier, extending a minimum of 2' deep. 4"x6" wood fence posts shall be set in a minimum 12" diameter concrete pier, again extending a minimum of 2' deep.
  - v. Any wooden stockade style fence 5'-6 1/2' that is visually nontransparent shall have a minimum of 3-2"x4" rails. Any wooden stockade style fence over 6 1/2' to 8' that is visually nontransparent will have a minimum of 4- 2"x4" rails.
  - vi. Vertical wooden fence boards or pickets shall be a minimum of 1" thickness and all pickets shall be spaced such that a sphere 4" diameter cannot pass through.

#### E. General Requirements.

1. Successful Bidder(s) shall be a firm regularly engaged in fencing repair and replacement and have sufficient equipment, materials, and trained personnel experienced in fencing installation and repairs, and transportation available to satisfactorily complete work as specified.
2. Fence replacement and repair services are required on an as needed basis. Services include, but are not limited to, repair or replacing damaged and/or broken fencing and gates, excavating, setting posts, installing concrete, rails, bracing, gates, and chain link mesh. Unless otherwise stated, 9-gauge fabric shall be installed to secure all fences.
3. Successful Bidder(s) shall designate at least one (1) person within their firm as a single point of contact ("POC") with office and cell phone numbers for accessibility.
4. Fence posts shall be set according to the gate openings specified prior to each project start or with changes accompanying the service call work assignment.
5. At the end of each workday, the Successful Bidder(s) shall be responsible for cleaning the site and all grounds that it has occupied of all rubbish, debris, and old fencing. No debris shall be deposited in containers owned by the County unless authorized to do so. All parts of the work site shall be left in a neat, orderly, and presentable condition.
6. Any brush or vegetation cut shall be removed at the end of the work performed.
7. The Successful Bidder(s) shall coordinate with the department's authorized representative for work scheduling. This includes but is not limited to availability of work areas, security planning, and coordination with all agencies and utility providers such as Miss Utility.
8. Some facilities require a security clearance and/or background check. The Successful Bidder(s) shall be informed, in advance, of work requested at a secure facility that requires a security clearance and/or background check.
9. The Successful Bidder(s) shall keep the department's authorized representative informed of the status of all work in progress on a daily basis or as requested on the Work Plan, including estimated completion date and any issues which may cause a delay in completion.

#### F. Work Site Safety.

1. Successful Bidder(s) shall be responsible for the safety of its employees and the general public while completing services.
2. The Successful Bidder(s) shall have a minimum of two (2) 5lb. fire extinguishers at the site at all times and must be readily available for use if needed.
3. All equipment and services shall comply with all current Virginia laws, Federal laws, ordinances, and regulations. The materials and installation services shall be performed according to current OSHA and EPA standards.
4. Except to the extent that more explicit or stringent requirements are written directly into this Invitation for Bid document, all applicable codes, regulations, and standards have the same force and effect and are made a part of the contract documents by reference.
5. Successful Bidder(s) shall immediately report all occurrences of damage and or personal injury done by its employees to County employees or property, citizens, private property, and Bidder's employee.

6. Damage to property or loss of vegetation shall be replaced or repaired by the Successful Bidder(s) at no cost to the County within a reasonable period of time, satisfactory to the County. The County may elect to deduct the cost of repairs to damaged property from Successful Bidder's project invoice if necessary.
7. The County reserves the right to have their own safety inspectors inspect any property damage or personal injury that occurs on County property or County maintained property.
8. The Successful Bidder(s) shall be solely responsible for any and all spills or leaks caused by the Successful Bidder(s) and its agents while performing work under the terms of any resulting project. The Successful Bidder(s) shall notify a County representative within one (1) hour. At no cost to the County, the Successful Bidder(s) shall contain, remediate, and restore the site of the spill to pre-spill conditions in accordance with applicable local, state and Federal regulations, and, if on County property, in accordance with the Invitation for Bid requirements.
9. Successful Bidder(s) shall be responsible for any and all costs associated with the remediation of any hidden contamination discovered to have been the result of a spill or leak. A written report shall be submitted by the Successful Bidder(s) identifying the substance, quantity released, reportable quantity for the substance, agencies notified, and represented contacted for any remediation performed.

G. Personnel.

1. All personnel shall be adequately experienced in fence repair, removal, and installation, and shall be trained, certified and skilled to operate all equipment necessary to perform these services.
2. All personnel shall be clearly identified and carry proper Company identification. Such identification shall be marked on an outer garment and worn at all times.
3. The County may provide security/contractor badges for employees to wear on County property if determined to be necessary.
4. The County shall have the right to require that the Successful Bidder(s) dismiss any employee from the premises whose conduct is improper, inappropriate, or offensive.

H. Ordering, Scheduling, and Acceptance of Work.

1. The Successful Bidder(s) shall meet with a County's authorized representative within one week (7 days) of notification of a Project. An acceptable "Work Plan" with price quotation shall be provided by the Successful Bidder(s) to the County within five (5) calendar days of receipt of a task order. The Work Plan shall include:
  - a. A detailed cost estimate;
  - b. List of subcontractors used for labor if Successful Bidder(s) is not self-performing 100% of the work;
  - c. Technical drawings and/or specifications to verify the Project scope;
  - d. Any concerns or notes involving the location security and/or work schedule hours; and
  - e. Estimated completion date.

2. Emergency Requests: For any emergency repairs, the Successful Bidder(s) shall return calls within (24) hours and begin work within (48) hours. Emergency requests should be accepted 6:00am to 5:00pm, Monday through Friday. Once a request is designated as an Emergency, the Successful Bidder(s) shall complete repairs within three (3) calendar days.
  3. Upon completion, the Successful Bidder(s) shall contact the County's authorized representative for inspection. Acceptability of work will be determined by the County. Any deficiencies or unsatisfactory work shall be noted. No invoice shall be issues by the Successful Bidder(s) until the County approves of the completed job.
  4. Any deficiencies or unsatisfactory work shall be corrected within five (5) working days of notification. The County is the sole judge of completion for any work. The County reserves the right to extend this time limit on a case-by-case basis. However, the Successful Bidder(s) shall send all justification in writing as to why more than five (5) working days is needed to complete any required corrections.
- I. Invoicing.
1. Invoices shall include contract number, purchase order number, dates of service, cost for services based on the contract rate, and completed project certification. No payment will be made for work in progress on the prescribed payment dates. Work completed will be verified in writing by the County's authorized representative and Successful Bidder's Supervisor on an agreeable format.
  2. In the event the Successful Bidder(s) fails to prepare the invoice as requested or if charges are calculated incorrectly, the County reserves the right to return the comprehensive invoice to the Successful Bidder(s) and payment will not be made until all corrections are received by the respective department. The Successful Bidder(s) shall submit invoices for completed work to the address provided on the Purchase Order provided by the County.
- J. Warranty.
1. The Successful Bidder(s) shall guarantee one (1) year full warranty on all materials and workmanship to commence on the date of project acceptance by the County. The Successful Bidder(s) shall include a copy of their warranty with their bid submittal.
  2. Any defects in materials, devices, and workmanship which become apparent within the guarantee period shall be repaired or replaced by the Successful Bidder(s) at his own expense, and at no additional cost to the Department.
  3. The Successful Bidder(s) warrants the scope of all applicable regulations to properly perform the work described in this Invitation for Bid and maintain full compliance with all laws, governmental regulations and orders, including the terms and conditions specified in permits currently held by the County for work as applicable to the services described herein.



## ATTACHMENT F

### **Installation Procedure for Galvanized Chain Link Fence, Gates, and Hardware**

1. Space posts equidistant in the fence line with a maximum of 10 feet on center or as shown on drawings.
2. Footings: Excavate holes as indicated for fence and gate posts. Excavate footings to depths and widths as noted in Specifications or on drawings. Install gravel drainage material in bottom of hole as shown on the drawings.
3. Setting Posts and Footings at Concrete Areas: Set posts in center of hole. Embed post so that bottom of post is flush with the bottom of concrete footing and in gravel drainage layer. Fill hole with concrete. Plumb and align posts. Vibrate or tamp concrete for consolidation. Finish elevation on top of footing to be coordinated with construction of concrete adjacent to posts or as shown on drawings. Do not attach fabric to posts until concrete has cured a minimum of 7 days.
4. Setting Posts and Footings in Grass Areas: Set posts in center of hole. Embed post so that bottom of post is flush the bottom of concrete footing and in gravel drainage layer. Fill hole with concrete. Plumb and align posts. Vibrate or tamp concrete for consolidation. Finish concrete in a dome shape above ground to shed water. Do not attach fabric to posts until concrete has cured a minimum of 7 days.
5. Locate corner posts at corners and at changes in direction. Use pull posts at all abrupt changes in grade and at intervals no greater than 500 feet. On runs over 500 feet, space pull posts evenly between corner or end posts. On long curves, space pull posts so that the strain of the fence will not bend the line posts.
6. Install top rail continuously through post caps or extension arms, bending to radius for curved runs. Install expansion couplings as recommended by fencing manufacturers.
7. Install intermediate rails in one piece between posts and flush with post on fabric side using special offset fittings where necessary.
8. Diagonally brace corner posts, pull posts, and terminal posts to adjacent line posts with truss rods and turnbuckles.
9. Attach fabric to playing field side of fence. Bottom of fabric to be set on finished grade of curb, track or playing field except when indicated otherwise. Thread stretcher bars through fabric using one bar for each gate and end post and two for each corner and pull post. Pull fabric tight so that the maximum deflection of fabric is 2 inches when a 30 pound pull is exerted perpendicular to the center of a panel. Maintain tension by securing stretcher bars to posts with metal bands spaced 15 inches oc. Fasten fabric to steel framework with wire ties spaced 12 inches oc for line posts and 24 inches oc for rails and braces. Bend back wire ends to prevent injury. Tighten stretcher bar bands, wire ties, and other fasteners securely.
10. Position bolts for securing metal bands and hardware so nuts are located opposite the fabric side of fence. Tighten nuts and score excess threads.
11. Secure post tops, extension arms, and caps with one-way cadmium plated steel screws. Install gates plumb and level and adjust for full opening without interference. Install ground-set items in concrete for anchorage, as recommended by fence manufacturer. Adjust hardware for smooth operation and lubricate where necessary. Attach fabric as for fencing. Install ground-set items in concrete as shown on the drawings.
12. Touch Up: Small nicks or other blemishes shall be touched up with paint materials suitable for and matching the finish of the damaged material. Severely damaged fencing / gates deemed as unacceptable at the sole discretion of the Owner or its representatives shall be replaced at the contractor's expense.

## ATTACHMENT G

### **Installation Procedure for Fusion Bonded Chain Link Fence, Gates, and Hardware**

1. Space posts equidistant in the fence line with a maximum of 10 feet on center or as shown on drawings.
2. Footings: Excavate holes as indicated for fence and gate posts. Excavate footings to depths and widths as noted in Specifications or on drawings. Install gravel drainage material in bottom of hole as shown on the drawings.
3. Setting Posts and Footings at Concrete Areas: Set posts in center of hole. Embed post so that bottom of post is flush with the bottom of concrete footing and in gravel drainage layer. Fill hole with concrete. Plumb and align posts. Vibrate or tamp concrete for consolidation. Finish elevation on top of footing to be coordinated with construction of concrete adjacent to posts or as shown on drawings. Do not attach fabric to posts until concrete has cured a minimum of 7 days.
4. Setting Posts and Footings in Grass Areas: Set posts in center of hole. Embed post so that bottom of post is flush the bottom of concrete footing and in gravel drainage layer. Fill hole with concrete. Plumb and align posts. Vibrate or tamp concrete for consolidation. Finish concrete in a dome shape above ground to shed water. Do not attach fabric to posts until concrete has cured a minimum of 7 days.
5. Locate corner posts at corners and at changes in direction. Use pull posts at all abrupt changes in grade and at intervals no greater than 500 feet. On runs over 500 feet, space pull posts evenly between corner or end posts. On long curves, space pull posts so that the strain of the fence will not bend the line posts.
6. Install top rail continuously through post caps or extension arms, bending to radius for curved runs. Install expansion couplings as recommended by fencing manufacturers.
7. Install bottom rails in one piece between posts and flush with post on fabric side using special offset fittings where necessary.
8. Horizontally brace corner posts, pull posts, and terminal posts to adjacent line posts with intermediate brace rail.
9. Diagonally brace corner posts, pull posts, and terminal posts to adjacent line posts with truss rods and turnbuckles.
10. At perimeter 6'-0" fence, attach fabric to security side of fence for lawn areas. Maintain a maximum 1 inch clearance above finished grade except when indicated otherwise. Thread stretcher bars through fabric using one bar for each gate and end post and two for each corner and pull post. Pull fabric tight so that the maximum deflection of fabric is 2 inches when a 30 pound pull is exerted perpendicular to the center of a panel. Maintain tension by securing stretcher bars to posts with metal bands spaced 15 inches oc. Fasten fabric to steel framework with wire ties spaced 12 inches oc for line posts and 24 inches oc for rails and braces. Bend back wire ends to prevent injury. Tighten stretcher bar bands, wire ties, and other fasteners securely.
11. Position bolts for securing metal bands and hardware so nuts are located opposite the fabric side of fence. Tighten nuts and score excess threads.
12. Secure post tops, extension arms, and caps with one-way cadmium plated steel screws.
13. Install gates plumb and level and adjust for full opening without interference. Install ground-set items in concrete for anchorage, as recommended by fence manufacturer. Adjust hardware for smooth operation and lubricate where necessary. Attach fabric as for fencing. Install ground-set items in concrete as shown on the drawings.
14. Touch Up: Small nicks or other blemishes shall be touched up with paint materials suitable for and matching the finish of the damaged material. Severely damaged fencing /gates deemed as unacceptable at the sole discretion of the Owner or its representatives shall be replaced at the contractor's expense.

## **ATTACHMENT H**

### **Installation Procedure for Ornamental Fence, Gates, and Hardware**

1. Install fence per fence industry standards and per manufacturer's instructions.
2. Set posts in concrete having a diameter 4 times the diameter of the post, and 6 inches deeper than the bottom of the post. Forms are not necessary or recommended.
3. Check each post for vertical and top alignment.
4. Attach panels to brackets using two 1/4-inch aluminum aircraft rivets.
5. Install and secure specified post tops.

### **Installation Procedure for Polyvinyl Fence, Gates, and Hardware**

1. Install fence components, accessories, and gates in accordance with manufacturer's instructions.
2. Install posts at 6' on center maximum with 2" maximum clear opening from end posts to building walls. Brace posts adjacent to walls with wall anchor attachments.
3. Position bottom rails 1/2" above finished grade.
4. Support gates from gate posts. Do not attached hinge side of gate from building walls.
5. Install three hinges on each gate leaf, latch, catches and drop bolts where appropriate. Adjust gates for proper operation.



COMMONWEALTH OF VIRGINIA

COUNTY OF HENRICO

Contract No. 2259B

CONTRACT

This contract ("Contract"), made this 17th day of December, 2021 between the County of Henrico, hereinafter called the "County" and

Tennis Courts, Incorporated

and his, its or their successors, executors, administrators, and assigns, hereinafter called the "Contractor;".

WITNESSETH: That, for the consideration mentioned below, the Contractor promises to do all the work and furnish all the materials, equipment and labor necessary to carry out this Contract in the manner and to the full extent set forth in the Contract Documents (hereinafter defined) to the satisfaction of the County. At all times, the County shall have the right to inspect the Contractor's work performed under this Contract. All terms and conditions, specifications, general and special provisions, plans, drawings, and all documents referred to below are hereby made part of this Contract as completely as if incorporated herein.

It is agreed that the services to be done under this Contract are to furnish all tools, labor, equipment and supervision necessary to provide Fencing Repair and Replacement Services when needed and requested by the County of Henrico in accordance with: (i) Invitation for Bid # 21-2259-11JMH dated December 1, 2021, including the general terms, conditions and requirements therein; (ii) Addendum No. 1 dated December 2, 2021; (iii) Contractor's Bid dated December 9, 2021; and the Price Schedule included as Appendix A (collectively, the "Contract Documents"). The term of this Contract shall be from the date the County signs this Contract through October 31, 2022 and may be renewed for up to four additional one-year periods in the County's sole discretion. Pricing shall be in accordance with the Price Schedule included as Appendix A.

In consideration of the foregoing, which consideration is acknowledged by the parties to be sufficient and complete for all of the work within the scope of this Contract, the County agrees to pay the Contractor for all items of work performed and/or materials furnished at the unit prices or lump prices under the conditions set forth in the Contract Documents.

FIRM: Tennis Courts, Incorporated
ADDRESS: PO Box 297
7421 Richmond-Tappahannock Hwy
Aylett, VA 23009

BY: [Signature]
TITLE: Vice President
DATE: 1-5-2022

County of Henrico, Virginia
P.O. Box 90775
Henrico, VA 23273-0775

BY: [Signature]
Oscar Knott, CPP, CPPO, VCO
Purchasing Director
DATE: 1/11/21

Digitally signed by: Oscar Knott
DN: CN = Oscar Knott email = kno008@h
us C = US O = County of Henrico, VA OU
Department of Finance - Purchasing Divisi
Date: 2022.01.11 14:56:07 -05'00'

Approved as to form:

Alyssa D. Brown