

**TOWN OF HERNDON, VIRGINIA
PUBLIC HEARING AGENDA
HERNDON COUNCIL CHAMBERS BUILDING
765 LYNN STREET
MAY 28, 2019
7:00 P.M.**

1. Call to Order
2. Pledge of Allegiance to the Flag of the United States of America

APPROVAL OF MINUTES

April 2, 2019	Town Council Work Session Draft Minutes
April 9, 2019	Town Council Public Hearing Draft Minutes
April 16, 2019	Town Council Work Session Draft Minutes
April 23, 2019	Town Council Public Hearing Draft Minutes

PRESENTATIONS

3. Certificate of Appreciation, to recognize Charlie Kemp, Department of Public Works, on the occasion of his retirement

COMMENTS

4. Comments from the Town Manager
5. Comments from the Town Council
6. Comments from the Audience

PUBLIC HEARINGS

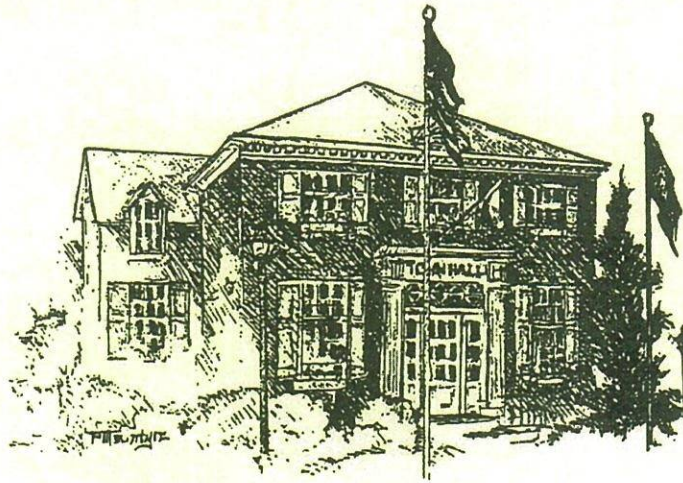
7. Resolution 19-G-42, to consider two additional chapters of the Urban Design & Architectural Guidelines for the Herndon Transit-Oriented Core (HTOC); one for signs within the HTOC, and the other for landscaping within the HTOC

GENERAL

8. Resolution 19-G-43, to approve an agreement with the Fairfax County Water Authority authorizing an Engineering Consulting Study of a Water Pumping Station and to reimburse Fairfax Water for the cost of the study.

Future Town Council Meetings

June 4, 2019	Town Council Work Session	7:00 p.m.
June 11, 2019	Town Council Public Hearing	7:00 p.m.
July 2, 2019	Town Council Work Session	7:00 p.m.
July 9, 2019	Town Council Public Hearing	7:00 p.m.



Town of Herndon, Virginia

Certificate of Appreciation

to

Charles Kemp

For more than 32 years of loyal and dedicated service to the citizens of the Town of Herndon and for your outstanding contributions to the quality of life in the Herndon community.

September 1986 to June 2019

Sheila A. Olem, Vice Mayor

Pradip Dhakal, Councilmember

Jennifer K. Baker, Councilmember

Signe Friedrichs, Councilmember

Cesar del Aguila, Councilmember

Bill McKenna, Councilmember

Lisa C. Morkel, Mayor



TOWN OF HERNDON, VIRGINIA

RESOLUTION

MAY 28, 2019

Resolution- to consider the Landscaping and Signage Chapters of the Urban Design Guidelines for the Herndon Transit-Oriented Core.

WHEREAS, in 2009 the Town Council directed the staff to pursue a special planning effort for the future Herndon Metrorail Station as contained in the 2030 Comprehensive Plan adopted in 2008; and

WHEREAS, the Town Council adopted a Comprehensive Plan amendment for the Herndon Metro Station Area Plan on February 28, 2013; and

WHEREAS, on November 26, 2013 the Town Council adopted Urban Design and Architectural Guidelines for the Herndon Transit-Oriented Core, prepared by Urban Design Associates, to provide assistance to developers and property owners proposing to redevelop their lands and to Town decision makers in accordance with the Plan; and

WHEREAS, landscaping and signage have been developed to supplement the existing Guidelines that were built upon the principles articulated in the Plan; and

WHEREAS, the Architectural Review Board has reviewed the proposed guidelines and expressed its support for the guidelines, at a public meeting on November 14, 2018; and

WHEREAS, the Planning Commission has reviewed the proposed guidelines and has held a public hearing, in accordance with the provisions of §15.2-2204 of the State Code, on April 22, 2019 and found that the proposed guidelines meet the purpose and intent of the Herndon Metro Station Area Plan; and

WHEREAS, the Town Council has conducted a public hearing and has reviewed the Planning Commission recommendation for approval.

NOW THEREFORE, BE IT RESOLVED that the Town Council of the Town of Herndon, Virginia, hereby:

Approves the addition of the landscaping and signage guidelines, prepared by Urban Design Associates and LaQuatra Bonci Associates, for inclusion in the adopted Urban Design and Architectural Guidelines for the Herndon Transit-Oriented Core, including the attached "List of

Amendments to the Proposed Landscaping Guidelines for the Herndon Transit Oriented Core” and the “List of Amendments to the Proposed Signage Guidelines for the Herndon Transit Oriented Core.”

BE IT FURTHER RESOLVED that the Town Council of the Town of Herndon, Virginia, authorizes staff to make certain revisions to the Urban Design and Architectural Guidelines for the Herndon Transit-Oriented Core, as amended, without prior Town Council approval for correction of clerical and administrative errors and updates of an administrative nature, excluding substantive changes.

List of Amendments to the Proposed Landscaping Guidelines for the HTOC

4/12/19

#	Location	Type	Comment
1	Page 31	new standard; add after "B"	<i>"Public open spaces shall consist of a minimum of 30% softscapes to break up hardscaping and accommodate shade trees and other plants."</i>
2	Page 3	map update	insert identifier labels for reference. Add "Herndon Parkway", "Van Buren Street", "Worldgate Drive", and "Herndon Metrorail Station"
3	Page 3	map update	include open space as approved with DP#17-01
4	Page 7, 8	sidewalk dimensions in plan view, section view, and axo view	Change sidewalk dimension label on eastern side of Van Buren Street to "5'-10' variable width" and include an asterisk or footnote. Then include the asterisk/footnote below the plan view stating..."the sidewalk shall be a minimum of 8' when the adjacent property is redeveloped by Special Exception or Development Plan."
5	Page 7,8	note arrangement	Convert the two existing notes below the plan view into a bulleted list that includes the new note regarding sidewalk width. The section view should be move the next page to fit this or the notes should be moved to the next page.
6	Page 7	bike lane label	change bike lane label to indicate 6' on the west side and 8' on the east side. Similar to how its labeled for Herndon Parkway.
7	Page 6,8,10,12,14	private building zone label	do not capitalize
8	Page 6,8,10,12,14	image caption	Capitalize street names.
9	Page 10	image caption	change to "Worldgate Drive"
10	Page 3	legend update	change "Alternative A Private Streets" to Private Streets. Change "Alternative B Private Streets" to "Private Street with Sugarland Run Trail"
11	Page 11	note after title	remove "Alternative A" from title
12	Page 11	in plan view	Add label for "10' min. brushed concrete sidewalk (20' lengths)".
13	Page 13	in plan view	change title to "Private Street with Sugarland Run Trail"
14	Page 13	note after title	add label in plan view referencing 60' lengths for brushed concrete sidewalks.
15	Page 17	title	remove title at top of page; this is a continuation from the previous page and is not needed.
16	Page 16	title	remove title at top of page; this is a continuation from the previous page and is not needed.

17	Page 16	first line	change to "Town of Herndon Streetscape Manual"
18	Page 16	3rd full paragraph, last line	"Town's Streetscape Manual".
19	Page 17	add additional page	after page 17; this new page would include a table identifying the specifications of the site furnishings to be used on private streets. See below:
20			Litter Receptacle Manufacturer: Forms & Surfaces or equal as approved by TOH Type: 36gUrban Renaissance, side opening, vertical pattern Color/Finish: Slate texture powdercoat Graphics: Custom Herndon graphics backer Use: At least one per block frontage, at all bus stops, at least one per 1000SF of off-street open space Placement: Paired with litter receptacles, at least 10' from any seating
21			Recycling Receptacle Manufacturer: Forms & Surfaces or equal as approved by TOH Type: 36g Urban Renaissance, side opening, vertical pattern Color/Finish: Azure texture powdercoat Graphics: Custom recycling graphics backer Use: At least one per block frontage, at all bus stops, at least one per 1000SF of off-street open space Placement: Paired with recycling receptacles, at least 10' from any seating
22			Bench Manufacturer: Forms & Surfaces or equal as approved by TOH Type: Cordia, backed or backless Primary Color/Finish: Extruded aluminum slats, slate texture powdercoat Accent Color/Finish: Jatoba Hardwood Slats, Slate Texture Powdercoat Use: At least two per block frontage along streets and at least two per 1000SF of off-street open space, at all transit stops Placement: at least 10' from any receptacle, under canopy tree or other source of shade to greatest extent possible

23		Bike Rack Manufacturer: Forms & Surfaces or equal as approved by TOH Type: Twist Color/Finish: Primary color required with optional accent colors. Primary to accent ratio is minimum of 3:1. - Slate texture powdercoat (primary) - Lime texture powdercoat (accent) - Azure texture powdercoat (accent) Use: At least two per block frontage, at all bus stops, at least two per 1000SF of off-street open space Placement: placed to ensure no obstruction of pedestrian access, coordinated with building entrances, high visibility and covered areas encouraged.
24		Private Street lights Manufacturer: TBD (in consultation with Dominion Energy) Luminaire: Carlyle Acorn (Dominion Energy Basic Option), Black finish Pole: Cast aluminum, Smooth round, Tapered, Black finish, 14' height limit Base: TBD (in consultation with Dominion Energy) Options: Internal glass refractor for light control Lights Source: LED 3500K Color Temperature Placement: Centered within the tree zone between curb and sidewalk
25	Page 15	in "D", first sentence Add ...crosswalks shall be used..."all intersections, curb cuts, <i>and at entrances into pedestrian passages</i> "
26	Page 25	promenade images remove drawings of Promenade; do not want to be prescriptive
27	Page 25	add additional page in place of drawings on page 25; include several precedent images of well designed quality promenade or similar open space designs.
29	Page 31	rewrite "E" rewrite to be less prescriptive. See below: Specific to the design of The Promenade:
		A unique community plaza space and pedestrian environment featuring appealing and engaging surface treatments and focal points, opportunities for passive recreation, areas for respite and programmable spaces. Accommodates emergency and service vehicle access.
		Full lighting is required and can be achieved by a diversity of illumination types. Most of the lighting shall be provided using overhead catenary fixtures. Additional lighting includes building façade accentuating fixtures, indirect tree uplighting, underside bench lighting, or other creative lighting measures that may be integrated into another features of the Promenade.

		All hardscaped areas shall be comprised of a variety of decorative pavers. The pavers shall be arranged to enliven the walking surface with different patterns and possible interactive or interpretative displays. The paver design may coordinate with the pavers used within the public and private streetscapes and relate to the location of building entrances along the Promenade.	
		Softscape areas to include canopy trees, ornamental trees, and ground plantings shall cover at least 30% of The Promenade. Shade trees shall be used to the greatest extent possible. Native plant gardens, pollinator gardens, and/or stormwater retention planters are encouraged.	
		A variety of amenities shall be integrated into the design of the Promenade and should include movable and fixed seating, café seating areas, kiosks for pop-up shops, temporary or permanent public art displays, wayfinding signage, movable and fixed planters, bicycle racks and/or shelters, interactive or interpretative displays.	
		for the Promenade, the site furnishing specified for the private streets shall be used.	
29	Page 38	planter detail	confirm whether this graphic was created by consultant; if not the caption should include a reference to the source.
30	Page 4, page 24	add language	in regards to incorporating focal points, historical references, and public art along/within connections and spaces to create a engaging environment and reinforce unique Herndon character.
31	Page 15	add language	add guideline for pet accommodations
32	Page 17	add language	under "Other Amenities" add language for drinking fountains and dog waste stations
33	Page 31	add language	add guideline for pet accommodations
34	Page 33	add language	for drinking fountains and dog waste stations

List of Amendments to the Proposed Signage Guidelines for the HTOC

4/12/19

#	Location	Type	Comment
1	Page 86	change language	"sign area shall be calculated in accordance with the <i>individual sign standards specified within this document</i> "
2	Page 90	add language	for "sign bands"; limit internal illumination to halo-lit
3	Page 90	add language	for "canopy sign" allow upper floor occupancy at lobby entrances. Limit to external lighting
4	Page 90	change title of sign type	to just "projecting sign"
5	Page 91	change title of sign type	change from "directory" to "freestanding". Remove option for placement on public street.
6	Page 91	change title of sign type	change from "feature signs" to "Blade Signs".
7	Page 91	change max height	increase "feature sign" placement height to 35'. Clarify that height is related to placement and not size of sign. Also clarify sign's vertical orientation.
8	Page 91	change language	for "door/window signs" change lighting to "not permitted"
9	Page 91	add language	for "plaques" limit one per business
10	Page 92	change language	for "monument signs"; allow on private streets as well
11	Page 92	change language	for "tower signs"; modify "Location": <i>At the top of tower building; visible from the Dulles Toll Road. On the south facing building elevation, left half of the east facing building elevation, or right half of the west facing building elevation.</i>
12	Page 92	change language	for "tower signs"; modify "Maximum Area for Sign": <i>250SF maximum for each sign when building is 14 stories or 180 feet in height. 150SF maximum for each sign when building is 6 stories or 80' in height.</i>
13	Page 92	add language	for "projecting banner signs": add standard for material - <i>durable exterior commercial grade fabric</i>
14	Page 93	in graphic captions	change "permitted locations" to "potential locations".

TOWN OF HERNDON, VIRGINIA

RESOLUTION

MAY 28, 2019

Resolution- to approve an Agreement with the Fairfax County Water Authority authorizing an Engineering Consulting Study of a Water Pumping Station and to Reimburse Fairfax Water for the cost of the study.

WHEREAS, The Town of Herndon is a wholesale water customer of Fairfax Water;
and

WHEREAS, the Town will require additional water transmission capacity in the future;
and

WHEREAS, the Town desires that Fairfax Water undertake an engineering study for a pumping station to supply the town's future water supply needs; and

WHEREAS, Fairfax Water has submitted a proposal to the Town for \$107,000 to perform this study; and

WHEREAS, funds to support this contract are available in the FY 2020-FY 2025 CIP.

NOW, THEREFORE, BE IT RESOLVED that the Town Council of the Town of Herndon, Virginia, hereby approves the Agreement to authorize an engineering consulting study of a water pumping station and to reimburse Fairfax Water up to \$107,000 for the study and that the Mayor is hereby authorized to sign and deliver the agreement on such form approved by the Town Attorney and any other instrument necessary to evidence or effectuate this agreement.



FAIRFAX COUNTY WATER AUTHORITY
8570 Executive Park Avenue, Fairfax, Virginia 22031-2218
www.fairfaxwater.org

FINANCE DIVISION
Mickie L. Moore
Director
(703) 289-6015
mmoore@fairfaxwater.org

April 22, 2019

Jennie A. Tripoli, CPA
Director of Finance
Town of Herndon
777 Lynn Street
Herndon, VA 20170

Re: Town of Herndon Booster Pump Station Proposal – Preliminary Engineering Report
FW Project 2642, Division 1

Dear Jennie:

The Town of Herndon (the "Town") recently purchased additional water supply capacity from Fairfax Water, exceeding the amount available from existing metered connections. Additional metered connections and/or system improvements are required to support the Town's total purchased capacity of 5.7 MGD. Based on discussions between Fairfax Water and Town staff, a new booster pump station supplied from Fairfax Water's existing 24-inch transmission main along the Washington and Old Dominion (W&OD) Trail has been identified as a viable alternative to provide adequate additional capacity and meet projected Town water needs.

Fairfax Water's engineering consultant, Hazen and Sawyer, has prepared a scope of services and fee (enclosed) to evaluate the feasibility of a new booster pump station on Town of Herndon Police Department property, located at 397 Herndon Parkway and adjacent to Fairfax Water's existing 24-inch main, and prepare a Preliminary Engineering Report. The scope of work has been reviewed by Town engineering staff and includes development of a conceptual design and preparation of a planning-level construction cost estimate.

Execution of this proposal obligates the Town to fully reimburse Fairfax Water for all costs associated with preparation of the Town of Herndon Booster Pump Station Preliminary Engineering Report, estimated as follows:

Hazen and Sawyer Engineering Services Task Order	\$84,800
Contingency (10%)	\$8,480
Fairfax Water Staff Time (15%)	\$13,992
Total Estimated Cost	\$107,272

APPROVED BY: [Signature]

APPROVED BY: [Signature]

Town of Herndon Booster Pump Station Proposal – Preliminary Engineering Report
FW Project 2642, Division 1
April 22, 2019

Please acknowledge your acceptance of this proposal by signing and returning this letter to my attention at Fairfax Water, 8570 Executive Park Avenue, Fairfax, Virginia 22031. Execution of this agreement is required prior to Fairfax Water issuing the Notice to Proceed to Hazen and Sawyer to prepare the Preliminary Engineering Report.

Please contact me at (703) 289-6015 or email at mmoore@fairfaxwater.org if you have any questions or would like to discuss further.

Sincerely,



Michele L. Moore
Director, Finance Division

Enclosure as noted

cc: Jamie Bain Hedges
Director, Planning & Engineering
Fairfax Water

Robert J. Etris
Operations Manager
Town of Herndon

ACCEPTED:

Authorized Signature _____ Date: _____

TOWN OF HERNDON

APPROVED AS TO FORM

By _____
Lesa J. Yeatts, Town Attorney
Town of Herndon, Virginia
Date: _____

ATTEST

Town Clerk

SCOPE OF SERVICES

**General Engineering Services – Agreement 4600000027
Task Order No. 21
Project 2642 Division 001**

Town of Herndon Booster Pump Station Preliminary Engineering Report

A. PURPOSE

The Town of Herndon (the “Town”) recently increased their purchased water supply capacity to 5.7 MGD. This exceeds the amount available from Fairfax Water’s existing metered connections to the Town and requires that the Town fund a system improvement to provide the necessary upgrades for the required supply. The increased demand will require a new booster pump station located near Fairfax Water’s existing 24-inch transmission main routed along the Washington and Old Dominion (W&OD) Trail. The purpose of this task is for Hazen to assist FW with developing the conceptual design and cost estimate for the booster pump station.

B. TASK OVERVIEW

This task encompasses developing a concept design and preparation of a planning level cost estimate to determine the feasibility of moving forward with the project.

Task 1 consists of the review of information provided by Fairfax Water, performing a site visit, and developing conceptual designs for up to three alternatives on the Town of Herndon Police Station Site, including conceptual pump station layouts. The pump station will be a pre-engineered structure complete with equipment, piping, electrical and controls. Hazen will perform a site visit to determine if there are any visible utilities, environmental constraints or other features that could affect the development of the site. Hazen will identify permits and approvals to construct the facility, and temporary and permanent easements. Project costs and schedules will also be developed.

Task 2 (Optional) consists of flood plain modeling. The proposed location of the pump station may conflict with the existing 100-year flood plain. An allowance is being provided for these services.

C. BACKGROUND INFORMATION

Fairfax Water recommends locating the booster pump station on the Town's property at the Town's Police Department site which will connect to the existing 24-inch transmission main along the W&OD trail. The proposed site offers the following:

1. There is open space off the southeast corner of the building that would be suitable for locating the booster pump station.
2. The site is adjacent to or partially in a floodplain which would require above ground pump station construction
3. Access to the site can be achieved from either W&OD or Sugarland Run trails
4. The site is near the 24-inch transmission main, minimizing yard piping installation costs.

This scope of work is based on the following assumptions:

1. The pump station design criteria will be provided by Fairfax Water
2. The pump station equipment will be housed in a pre-engineered structure with equipment, piping, valves and electrical panels. Hazen will evaluate pre-engineered systems that include structure, equipment, piping, valves, and electrical that will be factory assembled and systems that will provide separate pre-engineered structure and components that will require field installation. Hazen will provide a recommendation based on cost, available systems, architectural features, and the ability to meet future conditions.
3. The pump station will have an initial firm capacity of 6 MGD with provisions to increase the capacity to 10 MGD. Pumps will be centrifugal pumps equipped with VFD's.
4. The pump station site layout will include bypass piping and valves
5. The standby generator will be sized to operate one 3 MGD pump

D. CONCEPTUAL DESIGN

Task 1 – Technical Memorandum

The technical memorandum will describe the proposed booster pump station and waterline connections in detail and contain the following:

1. Introduction
 - a. Background
 - b. Purpose
2. Description of Alternatives
 - a. Summary of Alternatives. Hazen will develop up to three pump station alternatives located on the Police Station site, considering different locations on the site, different pumping station footprints, pumping configurations, etc.

- b. Recommended Alternative. Hazen will provide a recommendation for the pump station arrangement that best meets Fairfax Water's and the Town of Herndon's requirements.
3. Pump and Pipeline Sizing. This project scope is based on the design of a pump station with an initial 6 MGD firm capacity (three 3-MGD pumps) with provisions to expand to 10 MGD (three 5-MGD pumps). Fairfax Water will provide the design criteria to be used for development of the alternatives. Hazen will provide a recommendation on whether to install the electrical service capacity required to support the future 5-MGD pumps with the initial 3-MGD pump installation.
4. Preliminary Pump Station Layouts will be developed showing the general arrangement of equipment and major piping. The layouts will be presented on 11 x 17-inch drawings.
5. Preliminary Site Layouts will be developed to show the pump station, access roads, pipeline routing, site piping and utilities. This will include a field reconnaissance of the site to visually observe potential utilities and surface features that may conflict with the pump station and pipelines.
6. Conduct a field reconnaissance for the site to identify the likely environmental development constraints, such as the presence/absence of wetlands, streams, and Chesapeake Bay Resource Protection Areas (RPA). This effort is not an official wetland or RPA delineation; it does not include compiling data sheets, flagging the boundaries, or an onsite survey to locate any boundary flags, etc. It includes the necessary research and initial investigations to determine: whether there are areas of the properties that appear to be wetlands or RPA that will require formal delineations; an estimate of where and how much of the subject property is wetland or RPA; and an assessment of the impacts that these resources will have on the ability to develop that subject property.
7. Conduct easement research on the parcels that may be impacted by the proposed station and waterline. Determine the precise property boundaries between the Town, Fairfax County Park Authority, and NOVA Parks if pump station or associated pipelines cross property lines.
8. Using Fairfax County GIS data and any plans provided by others, prepare base mapping, review the conceptual layout and address key items such as site layout options, site/routing constraints, preliminary grading, drainage, utility services, connection and routing of water mains, access alternatives, easement requirements and other issues as necessary to aid the assessment and feasibility of this project.
9. Review the improvements shown on the concept design options against existing conditions and stormwater management regulations and assess what SWM/BMP facilities may be required to meet the regulations. This concept

submission does not include any design of the SWP/BMP facilities only an identification of what may be required.

10. **Electrical Service.** Electrical service will be coordinated with Virginia Dominion Power regarding location of source, connection requirements, and costs. A standby generator will be used to provide back-up power. Hazen will evaluate natural gas and diesel as the fuel source for the generator and provide a recommendation based on cost, availability, and environmental considerations.
11. **Permit Requirements.** Hazen will identify the permits and approvals required to construct the booster pump station. A description and the anticipated duration to obtain the permits will be included with the identified permits. The anticipated permits include:
 - a. Town of Herndon approval of the rough grading permit,
 - b. Other Fairfax Water-controlled (non-contractor) permits from Town of Herndon
 - c. Town of Herndon contractor-controlled permits
 - d. Virginia Department of Health Certificate to Construct
 - e. NOVA Parks
 - f. Town of Herndon Parks and Recreation
12. **Special Construction Requirements and Constraints**
 - a. Connection to Existing 24-inch Transmission Main
 - b. Coordination with Other Projects and Police Station Operations
13. **Estimate of Probable Construction Costs and Project Schedule.** Hazen will prepare an AACE Level 3 cost estimate to be used for budget authorization. Hazen will develop a project schedule using Microsoft Project in a Gantt chart format, which will show major planning, design, permitting and construction activities.
14. **Pump Station Exterior Architecture –** Hazen to coordinate the exterior architecture with the Town of Herndon.

Task 2 – Meetings

Meetings anticipated in this scope of work include:

1. Project kick-off meeting
2. Coordination meeting with Fairfax Water, Town of Herndon and the design engineer for the planned sewage pump station that will be located on the same site.
3. Five coordination meetings with the Town and/or regulatory agencies, including NOVA Parks and Herndon Parks and Recreation.
4. Draft technical memorandum review meeting.

Task 3 – Floodplain Alteration Type II Study (Optional Service)

The main purpose of this Task is to provide professional engineering services to evaluate impacts to the Sugarland Run floodplain related to grade changes due to the construction of the booster pump station and appurtenances.

This will involve the following activities:

- Acquisition and review of the Effective FEMA model from the Fairfax County Floodplain Administrator or from the FEMA Library (typically HEC-RAS model). Activities related to this step include:
 - Running the Effective model to create a Duplicate model and verify results
 - Correcting the Effective model as needed to address identified discrepancies and preparing a Corrected Effective model
 - Running the Corrected Effective model to verify results
- The Corrected Effective model will be renamed to be "Existing Conditions model" and will be updated by using new and/or modified FEMA cross sections of the area using existing grades, and if needed, complementing the cross sections with available LiDAR data
- Design of grade modifications
- Evaluation of impacts to the floodplain based on grade modifications
 - A Proposed Conditions model will be developed based on the proposed grades and pump station location (and related appurtenances)
 - The model will be run
 - Detailed hydraulic results and "analysis reach" comparisons will be evaluated to demonstrate no off-site increases in base-flood water surface elevation, floodway water surface elevation, no increases in velocities and/or floodway widths
- Given that there can be no-rise and no impacts to the existing floodway for the proposed pump station, up to two additional model runs will be performed based on station location and grade adjustments to arrive at a no-rise/no impact situation (if possible)
- Completion of a no-rise report (if possible)
- Coordination with the Fairfax County Floodplain Administrator as required
- One (1) Meeting with Fairfax Water to Discuss Results of the Flood Plain Study
- One (1) round of revisions to the Floodplain Study

E. DELIVERABLES

Task - 1 Hazen shall provide:

Preliminary Technical Memorandum: One (1) electronic copy in PDF format

Final Technical Memorandum: Four (4) hard copies and one (1) electronic copy in PDF format

Task – 2 Hazen shall provide:

Design of Grade Modifications: Three (3) hard copies (11 X 17 drawings) and one (1) electronic copy in PDF format

No Rise Report: Three (3) hard copies and one (1) electronic copy in PDF format

F. SCHEDULE

The work included in this Task Order shall be completed in accordance with the following schedule:

- | | |
|-------------------------------------|--|
| 1. Project Kick-off Conference Call | 2 Weeks after Notice to Proceed (NTP) |
| 2. Preliminary Technical Memorandum | 8 Weeks after NTP |
| 3. Preliminary TM Review Meeting | 2 Weeks after TM Submittal |
| 4. Final TM Submittal | 2 Weeks after Comments received from FW on the Preliminary TM |
| 5. Final Submittal | 3 Weeks after Comments received from FW on the Final Submittal |
| 6. No Rise Report | 8 Weeks after Authorization to Proceed |

G. FEES

The authorized not-to-exceed fee for providing engineering and related services described herein is \$84,800 as shown on the attached Excel sheet. This includes \$47,900 for the basic services and \$34,300 for the Floodplain Alteration Study if authorized by Fairfax Water to perform this work.

Basis of Payment

This work is being performed in accordance with the Basic Ordering Agreement for General Engineering Services between Fairfax Water and Hazen and Sawyer dated March 27, 2017.

Labor Multiplier

Attachment
19-G-43

**FAIRFAX COUNTY WATER AUTHORITY
PLANNING AND ENGINEERING DIVISION
COST ESTIMATE**

Cost Estimate For **Project 2642 - Town of Herndon Booster Pump Station**

Division 1 - Design

Computed By	TKG	Checked By	JBH
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Approved By JBH Date 4/17/2019

COST OF MINIMUM REQUIRED FACILITIES		
Engineering Services Task Order - Hazen and Sawyer		\$84,800.00
Sub-Total		\$84,800.00
Contingencies @	10%	\$8,480.00
Sub-Total		\$93,280.00
Staff Engineering @	15%	\$13,992.00
Total Cost Of Minimum Required Facilities		\$107,272.00
		USE
		\$107,000.00
		USE
		TOTAL COST
		\$107,000.00

APPORTIONMENT OF COST:

Item

MINIMUM REQUIRED FACILITIES

	<u>FW's Share</u>	<u>Applicant's Share</u>	<u>Total Cost</u>
	---	\$107,000.00	\$107,000.00
	---	---	---
TOTAL COST	---	\$107,000.00	\$107,000.00
	PRIOR APPROPRIATIONS		\$0.00
	ADDITIONAL APPROPRIATIONS		\$107,000.00