

**Nick Holland**

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**From:** Karen Walter <KWalter@muckleshoot.nsn.us>  
**Sent:** Tuesday, July 9, 2019 8:09 AM  
**To:** Nick Holland  
**Subject:** RE: Updated NOA for L60 Culvert

Nick,

Thanks for sending us this revised Notice of Application for the City of Lake Forest Park's PAUE for the L60 culvert replacement project. Depending on the size of the trees to be removed, they should be placed back into the stream as partial mitigation for losses to future wood recruitment functions.

The City was already planning on adding wood to the stream as part of the project, so using these trees would eliminate the need to purchase trees from offsite areas, again depending on their sizes.

Best regards,  
Karen Walter  
Watersheds and Land Use Team Leader

*Muckleshoot Indian Tribe Fisheries Division  
Habitat Program  
39015-A 172<sup>nd</sup> Ave SE  
Auburn, WA 98092  
253-876-3116*

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**From:** Nick Holland [mailto:nholland@ci.lake-forest-park.wa.us]  
**Sent:** Monday, July 08, 2019 4:25 PM  
**To:** 'Annette Pearson'; 'Betty Meyer'; 'PSCAA'; 'Catie Lee CatherineLee'; 'City of Brier'; sloyuk@kenmorewa.gov; 'City of Lynnwood'; 'City of Mountlake Terrace'; 'City of Seattle'; 'City of Shoreline'; 'D. Kaiser'; 'David Matulich'; 'Department of Ecology'; 'Diane Pottinger'; 'DOE'; 'E. Harris'; 'Gary Greene'; 'Jeff Smith'; 'Jeff LaFlam'; 'Kim Angel'; 'King County'; 'King County Department of Natural Resources'; 'King County Wastewater Treatment Division'; 'King County Water District 83'; 'Lake Forest Park Stewardship Foundation'; Laura Murphy; 'Margaret Duncan'; 'Mark Soltman'; 'Mark Wilgus'; 'Matt Bennett'; Karen Walter; 'Northshore Utility'; 'NUD'; 'Ramin Pazooki'; 'SEPA desk WDFW'; 'Shoreline Schools01'; 'Suzanne Anderson'; 'T. Crenshaw'; 'WA Dept of Archeology'; 'Washington Department of Fish and Wildlife'; jgreene@kingcounty.gov  
**Subject:** Updated NOA for L60 Culvert

Hello All,  
Please see the attached notice.

**Nick Holland**

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**From:** Karen Walter <KWalter@muckleshoot.nsn.us>  
**Sent:** Wednesday, January 23, 2019 4:30 PM  
**To:** Barry Baker  
**Cc:** 'McDermott, Kristin L CIV USARMY CENWS (US)'; 'Fisher, Larry D (DFW)'; Nick Holland; Neil Jensen  
**Subject:** RE: Lake Forest Park L60 culvert replacement on Lyon Creek  
**Attachments:** GoldeCr\_LarchWay\_Culvert\_Monitoring\_Plan\_01182018\_FINAL.docx; Kelsey Creek Culvert at NE 8th Street Monitoring Plan 09292017.pdf; Stream Simulation Culvert Monitoring Plan Garrison Creek Culvert at South 218th Street.pdf

Barry,

We had further conversations with WDFW about the culvert streambed materials designs as shown in the HPA approved plan set dated December 17, 2018. Based on these discussions, we have no further questions about the culvert streambed design.

The project does have an outstanding issue for the pending Corps permit related to culvert monitoring. As promised, here are some examples of culvert monitoring plans that were submitted for other culvert projects seeking Corps permits. There are some minimum elements that should be included and you should review Chapter 14, starting on page 206 of WDFW's 2013 Water Crossing Design Guidelines. We ask that you work with the City to develop a draft culvert monitoring plan, then send it to us and the Corps for our review.

Thank you,  
Karen Walter  
Watersheds and Land Use Team Leader

*Muckleshoot Indian Tribe Fisheries Division  
Habitat Program  
39015-A 172<sup>nd</sup> Ave SE  
Auburn, WA 98092  
253-876-3116*

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**From:** Karen Walter  
**Sent:** Friday, January 18, 2019 4:27 PM  
**To:** 'Barry Baker'  
**Cc:** 'McDermott, Kristin L CIV USARMY CENWS (US)'; 'Fisher, Larry D (DFW)'; 'Nick Holland'; Neil Jensen  
**Subject:** RE: Lake Forest Park L60 culvert replacement on Lyon Creek

Barry,

Thanks for sending responses to our comments/questions about this project. We appreciate your efforts on behalf of the City. Can you provide us with the basis for WDFW's determination that rock bands are needed at this culvert site? They really don't meet the intent of the stream simulation design and pose a fish passage risk over the life of the culvert.

The culvert monitoring portion is a direct requirement of the Corps' permitting process re: stream crossings. I will dig up some examples for your consideration.

Karen Walter  
Watersheds and Land Use Team Leader

*Muckleshoot Indian Tribe Fisheries Division  
Habitat Program  
39015-A 172<sup>nd</sup> Ave SE  
Auburn, WA 98092*

253-876-3116

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**From:** Barry Baker [<mailto:bbaker@g-o.com>]  
**Sent:** Tuesday, January 15, 2019 9:37 AM  
**To:** Karen Walter  
**Cc:** 'McDermott, Kristin L CIV USARMY CENWS (US)'; 'Fisher, Larry D (DFW)'; 'Nick Holland'; Neil Jensen  
**Subject:** RE: Lake Forest Park L60 culvert replacement on Lyon Creek

Hi Karen, Kristin, Larry, and Nick;

Sorry for the delay in getting back to you after the holidays. The text immediately below is a response to the most recent email from Karen Walter (sent 12/18/2018 @ 10:34 am). Responses to earlier inquiries are provided following each of the questions in the email below.

WDFW requested additional measures be used to prevent the thalweg from establishing against the wall of the culvert and we included rock bands based on a site visit with WDFW. Our initial design (without rock bands) was sized based on design guidance in the 2013 WDFW Water Crossing Design Guidelines using the Streambed Simulation Culvert Design option. Attached is our geomorphologist's summary of the guidance, preferred (original) design and two alternatives [Coarse rock band guidance – dfw 2013.pdf].

Because the change was in direct response to a regulatory agency' request, I would like to propose either a meeting or phone conference to make sure that all of the permitting needs from all the reviewing agencies are addressed and meet the environmental protection and improvements that is the intent of the project. The City desires to construct the project this summer and I want to make sure we can keep the effort moving to be able to accomplish that timeline.

Please let me know the times and dates you are available between January 16 and January 22 for either a meeting or phone conference. Thank you.

Also, neither the City nor I am aware of the requirements for a culvert monitoring plan Karen requested. Can you please provide the requirements and/or guidance so we can make sure we provide what is needed?

Barry Baker, P.E.  
Gray & Osborne, Inc.  
(360) 454-5490  
(206) 284-0860

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**From:** Karen Walter [<mailto:KWalter@muckleshoot.nsn.us>]  
**Sent:** Tuesday, December 18, 2018 10:34 AM  
**To:** Barry Baker  
**Cc:** McDermott, Kristin L CIV USARMY CENWS (US); Fisher, Larry D (DFW); Nick Holland  
**Subject:** RE: Lake Forest Park L60 culvert replacement on Lyon Creek

Barry,

One more follow-up...

The project is now also showing rock bands inside the culvert per the HPA 2018-4-862. Why are rock bands needed if the project has been sized correctly to meet WDFW Stream Simulation? We have found that rock bands can affect sediment distribution and result in fish passage barriers over time.

Also, has the City draft its culvert monitoring plan to demonstrate fish passage over time yet? We will need to see that, too, for our review.

Thank you,  
Karen Walter

Watersheds and Land Use Team Lead

Muckleshoot Indian Tribe Fisheries Division  
Habitat Program  
39015-A 172<sup>nd</sup> Ave SE  
Auburn, WA 98092  
253-876-3116

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**From:** Karen Walter  
**Sent:** Tuesday, December 18, 2018 10:21 AM  
**To:** 'Barry Baker'  
**Cc:** 'McDermott, Kristin L CIV USARMY CENWS (US)'; Fisher, Larry D (DFW); 'Nick Holland'  
**Subject:** RE: Lake Forest Park L60 culvert replacement on Lyon Creek

Barry,

Thank you for getting back to us on the City of Lake Forest Park's L60 culvert replacement project on Lyon Creek. We have reviewed the responses and offer follow-up comments:

1. Pebble Count data

Based on the responses, there is a pebble count that was done for the project. Can we have the actual data? We have found that cumulative distribution graphs created for these projects tend to extrapolate the data and may not accurately reflect existing conditions which could result in a more coarse bed than what would occur naturally. The pebble count is extremely important to meeting the intent of WDFW's stream simulation design. As noted in the 2013 guidelines, "*In order to function properly as a segment of the stream channel, the bed of the culvert must be similar to the streambed.*" As noted in the response, the project is proposing larger material sizes in the culvert than the adjacent stream which needs to be verified to determine if stream simulation conditions area being met.

Attached is the requested data on the pebble count

2. Wood design

Per the responses, the project is proposing to place 10 logs in the project reach, all of which will meet the definition of a "key piece" from Fox and Bolton (2007) for the appropriate bankfull width. Why is the project only using key pieced sized wood for the wood design? The Fox and Bolton data suggest that there should be 10 pieces of wood (that are at least 4 inches in diameter and 6 feet in length) and 2-3 key pieces to meet each of these 75<sup>th</sup> percentile metrics from the paper; wood volumes is the 3<sup>rd</sup> metric.

Large woody debris mobilized through the project reach poses risk to flooding of downstream residences. At its distal end the project reach converges radically to a narrow corridor, confined by rock revetment (see attached photo "002 resized.jpg"). The narrow, revetted, and confined corridor extends approximately 1,200 feet linearly downstream through the residential neighborhood and then is routed beneath the Town Square commercial area, through four culverts, and beneath State Route 522 to its confluence with Lake Washington. Flooding through this reach is a documented hazard that would be exacerbated by debris that can be trapped within the revetted reach.

For this reason, large woody debris placed in the active channel are intended to be functional and immobile, and for that purpose are considered as key pieces. Conservatively, the minimum volume of logs placed in the project reach would be 20 cubic meters (~715 cubic feet) or greater.

3. Tree removal

Please clarify how many trees meeting the impact criteria we provided in our previous comments will be removed as part of the project and how many of these trees will be added back into Lyon Creek.

Six trees are scheduled to be removed. These include three standing cedar trees that are suitable as key pieces, a fallen fir log that is suitable as a key piece, a mature black cottonwood, and a young six-inch diameter red alder. The three cedar and fallen fir will be added back into Lyon Creek. The young alder will be placed outside

of the active channel but within the riparian zone. The mature black cottonwood can be placed outside of the active channel within the riparian zone, or can be chipped for mulch on site.

**EXHIBIT # 3.5**

We appreciate the opportunity to continue working with the City of Lake Forest Park on this project and look forward to additional responses and information as noted above.

Please let me know if you have any questions.

Best regards,  
Karen Walter  
Watersheds and Land Use Team Leader

*Muckleshoot Indian Tribe Fisheries Division  
Habitat Program  
39015-A 172<sup>nd</sup> Ave SE  
Auburn, WA 98092  
253-876-3116*

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**From:** Barry Baker [<mailto:bbaker@g-o.com>]  
**Sent:** Thursday, November 15, 2018 11:10 AM  
**To:** 'Fisher, Larry D (DFW)'; Karen Walter; 'McDermott, Kristin L CIV USARMY CENWS (US)'; 'Nick Holland'  
**Cc:** Neil Jensen  
**Subject:** Lake Forest Park L60 culvert replacement on Lyon Creek

Hello all,

Please see the responses to the comments provided by Karen Walter of the Muckleshoot Tribe. These comments and responses are applicable to the City of Lake Forest Park SEPA and PAUE process; Washington State Department of Fish & Wildlife HPA APPS submittal (APPS #14550); and USACE JARPA Submittal (NWS-2018-504). Our responses in in red italics following the original comment.

Please feel free to contact me if you have any questions or need additional information.

Barry Baker, P.E.  
Gray & Osborne, Inc.  
(360) 454-5490  
(206) 284-0860

**From:** Karen Walter <[KWalter@muckleshoot.nsn.us](mailto:KWalter@muckleshoot.nsn.us)>  
**Date:** November 9, 2018 at 9:04:06 AM PST  
**To:** Stewart Reinbold <[Stewart.Reinbold@dfw.wa.gov](mailto:Stewart.Reinbold@dfw.wa.gov)>  
**Cc:** Neil Jensen <[njensen@ci.lake-forest-park.wa.us](mailto:njensen@ci.lake-forest-park.wa.us)>  
**Subject:** Pending APP 14885, Lake Forest Park L60 culvert replacement on Lyon Creek

Stewart,

We have reviewed the available information for the City of Lake Forest Park's L60 project on Lyon Creek. We have already sent comments to this project via the SEPA process, all of which are outstanding. Therefore, we are re-submitting these comments in response to the pending APP. Please have the applicant respond timely so that we may review these responses and provide any further comments prior to the issuance of WDFW's HPA.

1. Culvert Design streambed material

We did not see the Wolman pebble counts or other existing streambed materials data to determine the sizing for the culvert streambed materials. Please provide that data. We want to ensure that the material is not too coarse compared to the existing conditions.

REPLY Lyon Creek streambed sediment was sampled upstream of the existing culvert using the Wolman pebble count methodology modified with employment of a systematic longitudinal zigzag walk within the active channel over a distance of approximately 150 feet. Cumulative grain size distribution of the sampled surface particles are displayed graphically in Appendix E of the preliminary design report (PDF page 62). The  $D_{100}$ ,  $D_{84}$ ,  $D_{50}$ , and  $D_{16}$  particle sizes were 148 mm (0.49 ft), 60 mm (0.2 ft), 24 mm (0.08 ft), and 8 mm (0.03 ft) respectively.

Based on estimates for general scour depth in a straight reach, as well as for estimates of particle mobility (spreadsheets in Appendix E, PDF pages 63, 64), the specified streambed sediment in the open (realigned) channel is comprised of 84% streambed sediment meeting the requirements of WSDOT 9-03.11(1) and 16% conforming to the requirements of WSDOT 9-03.11(2) for 8-inch cobbles. Specified streambed sediment inside the culvert is comprised of 84% streambed sediment meeting the requirements of WSDOT 9-03.11(1) and 16% conforming to the requirements of WSDOT 9-03.11(2) for 12-inch cobbles. The slightly larger mix of cobbles inside the culvert is intended to prevent excess scour. Depth of scour estimates for this mix of streambed material under the 100-year design discharge and design channel dimension is up to 2 feet, or 2.4 feet with a 1.25 factor of safety.

2. Stream grading

The Preliminary Design Report that the stream will be graded 130 feet to modify its bankfull width. Please explain why this work is needed, particularly if the culvert is appropriately sized based on stream simulation.

REPLY Existing revetments artificially constrain the Lyon Creek channel width on its approach into the existing culvert, on its exit from the existing culvert, and approximately 100 feet downstream of the culvert. The channel will be graded over a distance of approximately 50 feet to ease the transition from the upstream existing artificially constrained width to the design bankfull width of 18.5 feet. Channel grading will continue approximately 80 feet downstream from the outfall of the replacement culvert to maintain the 18.5 foot bankfull width, and then transition to its existing artificially constrained width over a distance of approximately 25 feet. Please refer to the preliminary design report, document page 3-2 (PDF page 16), first full paragraph.

Grading is also necessary for channel realignment downstream of the replacement culvert to increase channel sinuosity, improve flood-prone width, and to avoid impacts to the Category II wetland downstream.

3. Wood

Is the project meeting the statements regarding the amount of wood needed per Fox and Bolton 2007 (i.e. 24 logs per 300 feet of channel and 6 key pieces per 300 feet of channel)? What are the wood piece sizes and numbers? How does the project meet the volume metrics?

REPLY Within the 130 feet of realigned and open graded channel the project would meet or exceed recommended metrics for a channel having bankfull width of up to 6 meters (~19.7 feet). Ten logs, all of which are key pieces, would be installed. Minimum volume of the 10 pieces is 400 cubic feet. Plan Sheet Number 8 displays the LWD arrangements. Plan Sheet Number 9 displays minimum lengths and diameters. Four pieces specify minimum lengths of 12 feet and minimum diameters of 1.5 feet; 6 pieces specify minimum lengths of 30 feet and minimum diameters of 1.5 feet.

4. Sewer location vs culvert design

Please clarify where the existing sewer is located. The BOD notes that there may be a need to encase the sewer if it is through the culvert. Such an approach would affect the culvert to pass wood and sediment over time and may adversely affect fish passage.

REPLY The existing sewer pipeline crosses over the top of the existing culvert and the top of concrete box culvert replacement will be lower than the crown of the existing

culvert. Therefore, the sewer line will need to be protected during construction but will not be within any part of the new culvert structure. Encasement may still be required to protect the sewer line but any encasement will be outside and above the new concrete culvert structure. Please see the section view of the utility crossing on Sheet 4 of 11 of the JARPA figures. The sewer crossing is shown at station 1+23.

5. Tree removal

All of the trees removed for the project should be placed back into the stream as they are at least 4 inches in diameter and within 200 feet of the stream.

REPLY Cedar or fir trees removed for the project are to be salvaged, and if suitable, will be utilized for restoration as shown on the plans. If the wood is not suitable as LWD within the channel, it will be placed outside of the active channel but within the riparian zone.

6. Knotweed removal

All of the existing knotweed in the project site should be removed. The City should work with Adopt-A-Stream or the KCD to remove any knotweed on nearby private property to help ensure reestablishment of the disturbed riparian areas with only native trees and shrubs.

REPLY Clearing within the construction grading limits will require the contractor to implement King County Noxious Weed Control Program Best Management Practices for clearing and removal of knotweed species, as well as other noxious or invasive species (English ivy, Himalayan blackberry, English holly).

We appreciate your assistance in this matter.

Thank you,  
Karen Walter  
Watersheds and Land Use Team Leader

Muckleshoot Indian Tribe Fisheries Division  
Habitat Program  
39015-A 172<sup>nd</sup> Ave SE  
Auburn, WA 98092  
253-876-3116

**Nick Holland**

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**From:** Nick Holland  
**Sent:** ~~Thursday, November 8, 2018 9:05 AM~~  
**To:** 'Karen Walter'  
**Subject:** RE: Notice of Application; L60 Culvert

Hi Karen,

The applicant has been made aware of your questions, and should be developing responses. If they do not respond to your questions, I will ask them to by way of formal request for additional information, prior to the hearing. Either way, your questions will be answered. Thanks.

Nick Holland  
Senior Planner  
City of Lake Forest Park  
Planning and Building Department  
17425 Ballinger Way NE  
Lake Forest Park, WA 98155  
Direct: 206-957-2832



*Disclaimer: This email is considered a public record and may be subject to public disclosure.*

**From:** Karen Walter <KWalter@muckleshoot.nsn.us>  
**Sent:** ~~Thursday, November 8, 2018 8:36 AM~~  
**To:** Nick Holland <nholland@ci.lake-forest-park.wa.us>  
**Cc:** Neil Jensen <njensen@ci.lake-forest-park.wa.us>  
**Subject:** RE: Notice of Application; L60 Culvert

So when can we expect responses?

Karen Walter  
Watersheds and Land Use Team Leader

*Muckleshoot Indian Tribe Fisheries Division  
Habitat Program  
39015-A 172<sup>nd</sup> Ave SE  
Auburn, WA 98092  
253-876-3116*

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**From:** Nick Holland [<mailto:nholland@ci.lake-forest-park.wa.us>]  
**Sent:** Wednesday, November 07, 2018 9:37 AM  
**To:** Karen Walter  
**Cc:** Neil Jensen  
**Subject:** RE: Notice of Application; L60 Culvert

Hi Karen,



Thanks for your comments. Your comments will be useful to staff when making the recommendation to the Hearing Examiner. By way of commenting on this project, you will also become a party of record for this project, and receive all further correspondence regarding the project. Thanks.

Nick Holland  
Senior Planner  
City of Lake Forest Park  
Planning and Building Department  
17425 Ballinger Way NE  
Lake Forest Park, WA 98155  
Direct: 206-957-2832



*Disclaimer: This email is considered a public record and may be subject to public disclosure.*

**From:** Karen Walter <[KWalter@muckleshoot.nsn.us](mailto:KWalter@muckleshoot.nsn.us)>  
**Sent:** Monday, November 5, 2018 1:23 PM  
**To:** Nick Holland <[nholland@ci.lake-forest-park.wa.us](mailto:nholland@ci.lake-forest-park.wa.us)>  
**Cc:** Neil Jensen <[njensen@ci.lake-forest-park.wa.us](mailto:njensen@ci.lake-forest-park.wa.us)>  
**Subject:** RE: Notice of Application; L60 Culvert

Nick,

We have reviewed the available materials for the City of Lake Forest Park's L60 culvert replacement project on NE 178<sup>th</sup> Street crossing of Lyon Creek. We offer the following comments in the interest of protecting and restoring the Tribe's treaty-protected fisheries resources:

1. Culvert Design streambed material  
We did not see the Wolman pebble counts or other existing streambed materials data to determine the sizing for the culvert streambed materials. Please provide that data. We want to ensure that the material is not too coarse compared to the existing conditions.
2. Stream grading  
The Preliminary Design Report that the stream will be graded 130 feet to modify its bankfull width. Please explain why this work is needed, particularly if the culvert is appropriately sized based on stream simulation.
3. Wood  
Is the project meeting the statements regarding the amount of wood needed per Fox and Bolton 2007 (i.e. 24 logs per 300 feet of channel and 6 key pieces per 300 feet of channel)? What are the wood piece sizes and numbers? How does the project meet the volume metrics?
4. Sewer location vs culvert design  
Please clarify where the existing sewer is located. The BOD notes that there may be a need to encase the sewer if it is through the culvert. Such an approach would affect the culvert to pass wood and sediment over time and may adversely affect fish passage.
5. Tree removal  
All of the trees removed for the project should be placed back into the stream as they are at least 4 inches in diameter and within 200 feet of the stream.
6. Knotweed removal

All of the existing knotweed at the project site should be removed. The City should work with Adopt-A-Stream or the KCD to remove any knotweed on nearby private property to help ensure reestablishment of the disturbed riparian areas with only native trees and shrubs.

We appreciate the opportunity to review this proposal and look forward to the City's responses.

Karen Walter  
Watersheds and Land Use Team Leader

*Muckleshoot Indian Tribe Fisheries Division  
Habitat Program  
39015-A 172<sup>nd</sup> Ave SE  
Auburn, WA 98092  
253-876-3116*

---

**From:** Nick Holland [<mailto:nholland@ci.lake-forest-park.wa.us>]  
**Sent:** Monday, October 22, 2018 9:51 AM  
**To:** 'Angie Peace'; 'Annette Pearson'; 'Betty Meyer'; 'PSCAA'; 'Catie Lee CatherineLee'; 'City of Brier'; [sloyuk@kenmorewa.gov](mailto:sloyuk@kenmorewa.gov); 'City of Lynnwood'; 'City of Mountlake Terrace'; 'City of Seattle'; 'City of Shoreline'; 'D. Kaiser'; 'David Matulich'; 'Department of Ecology'; 'Diane Pottinger'; 'DOE'; 'E. Harris'; 'Gary Greene'; 'Jeff Smith'; 'Jeff LaFlam'; 'Kim Angel'; 'King County'; 'King County Department of Natural Resources'; 'King County Metro Transit'; 'King County Wastewater Treatment Division'; 'King County Water District 83'; 'Lake Forest Park Stewardship Foundation'; Laura Murphy; 'Margaret Duncan'; 'Mark Gregg'; 'Mark Soltman'; 'Mark Wilgus'; 'Matt Bennett'; Karen Walter; 'Northshore Utility'; 'NUD'; 'Ramin Pazooki'; 'SEPA desk WDFW'; 'Shoreline Schools01'; 'Suzanne Anderson'; 'T. Crenshaw'; 'WA Dept of Archeology'; 'Washington Department of Fish and Wildlife'  
**Cc:** Neil Jensen  
**Subject:** Notice of Application; L60 Culvert

Please see the attached.

Nick Holland  
Senior Planner  
City of Lake Forest Park  
Planning and Building Department  
17425 Ballinger Way NE  
Lake Forest Park, WA 98155  
Direct: 206-957-2832



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Allyson Brooks Ph.D., Director  
State Historic Preservation Officer

November 5, 2018

Mr. Nick Holland  
Senior Planner  
City of Lake Forest Park  
Planning and Building Department  
17425 Ballinger Way NE  
Lake Forest Park, WA 98155

In future correspondence please refer to:  
Project Tracking Code: 2018-11-08661  
Property: City of Lake Forest Park Application for Public Agency Utility Exception Fish Passage  
Re: Archaeology - Monitoring Requested

Dear Mr. Holland:

Thank you for contacting the Washington State Historic Preservation Officer (SHPO) and Department of Archaeology and Historic Preservation (DAHP) and providing documentation regarding the above referenced project. As a result of our review, our professional opinion is that the project area has the potential to contain archaeological resources. The project is located in an area determined to be at very high risk of containing archaeological resources according to the DAHP predictive model.

Although identification during construction is not the preferred detection method because inadvertent discoveries can result in costly construction delays and damage to the resource, the majority of the area being impacted by the project is currently hardscaped. Therefore, we recommend that a professional archaeologist monitor all ground disturbing activities during the project. We also recommend consultation with the concerned Tribes' cultural committees and staff regarding cultural resource issues.

If any federal funds or permits are associated with this proposal, Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800, must be followed. This is a separate process from both the NEPA and SEPA environmental review processes and requires formal government-to-government consultation with the affected Tribes and the SHPO.

These comments are based on the information available at the time of this review and on behalf of the SHPO in conformance with Washington State law. Should additional information become available, our assessment may be revised.

Thank you for the opportunity to comment on this project and we look forward to receiving the monitoring report. Please ensure that the DAHP Project Number (a.k.a. Project Tracking Code) is shared with any hired cultural resource consultants and is attached to any communications or submitted reports. Should you have any questions, please feel free to contact me.

Sincerely,

Stephanie Jolivette  
Local Governments Archaeologist  
(360) 586-3088  
Stephanie.Jolivette@dahp.wa.gov





EXHIBIT # 3.12

**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

King Street Center, KSC-NR-0505  
201 South Jackson Street  
Seattle, WA 98104-3855

November 2, 2018

sent via email: [aplanner@cityoflfp.com](mailto:aplanner@cityoflfp.com)

Lake Forest Park City Hall  
17425 Bothell Way NE  
Lake Forest Park, WA 98155

The King County Wastewater Treatment Division (WTD) has received the Notice of Application for Public Agency Utility Exception, File Number 2018-PAUE-0001. **Two King County facilities, the 24-inch diameter Lyon and McAleer Trunk sewers, are located near the project site. We have attached scanned record drawings showing the locations of these sewer pipes in the vicinity of the project area.**

In order to protect these wastewater facilities during construction, **WTD requests that the City submit construction drawings for the project**, so that WTD can assess its potential impacts. Please send drawings to:

Mark Lampard, Local Public Agency Coordinator  
King County WTD, Engineering and Technical Resources  
201 South Jackson Street, KSC-NR-0503  
Seattle, WA 98104-3855  
(206) 477-5414 / [mark.lampard@kingcounty.gov](mailto:mark.lampard@kingcounty.gov)

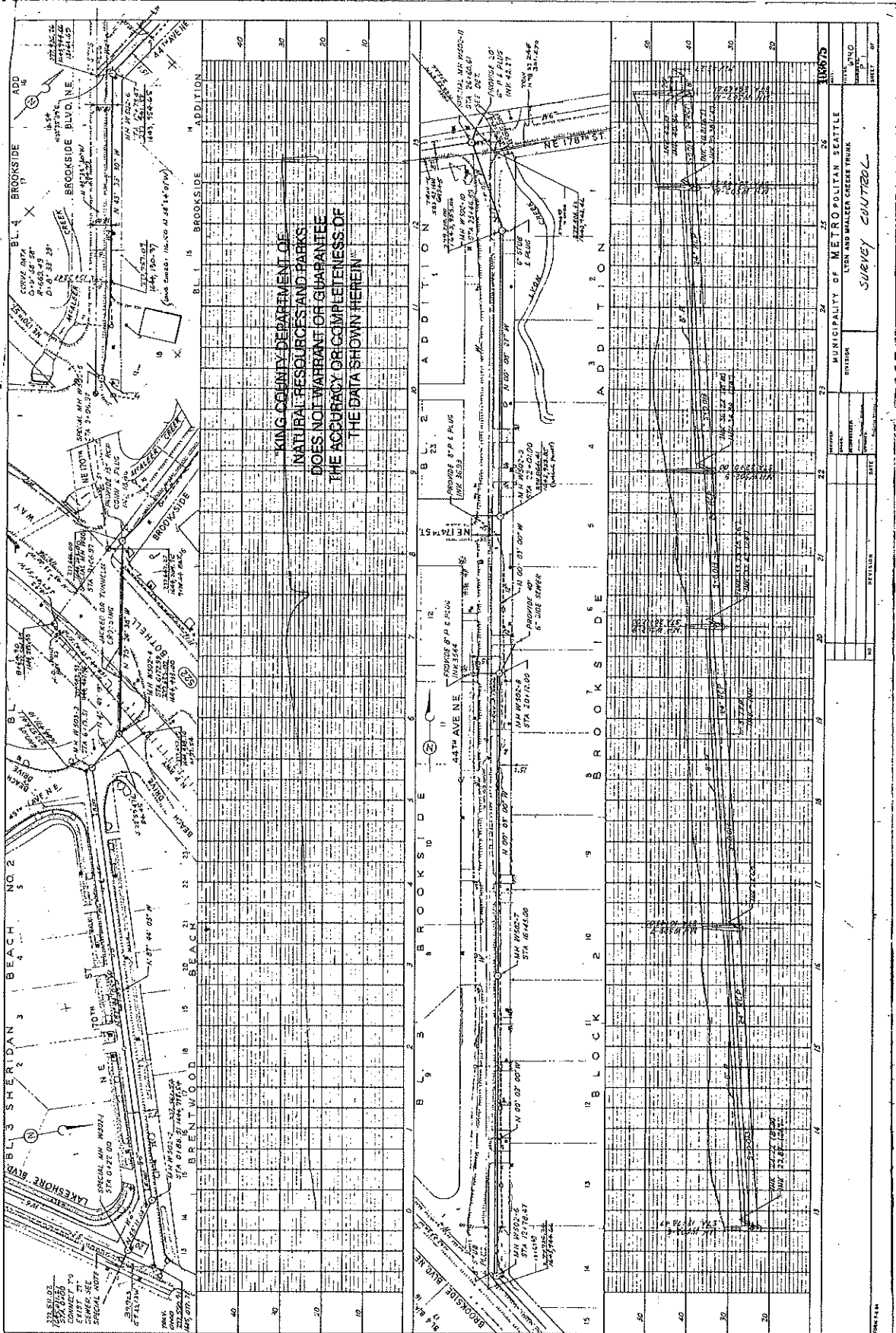
Thank you for the opportunity to review and comment on this project.

Sincerely,

Grace Smith  
Water Quality Planner

cc: Mark Lampard, Local Public Agency Coordinator

Enclosure



MUNICIPALITY OF METROPOLITAN SEATTLE  
LYNN AND MALCOLM CREEK TRUNK  
SYSTEM

DATE: 10/15/02  
BY: J. H. [unclear]  
CHECKED BY: [unclear]

PROJECT: [unclear]  
SHEET: [unclear]

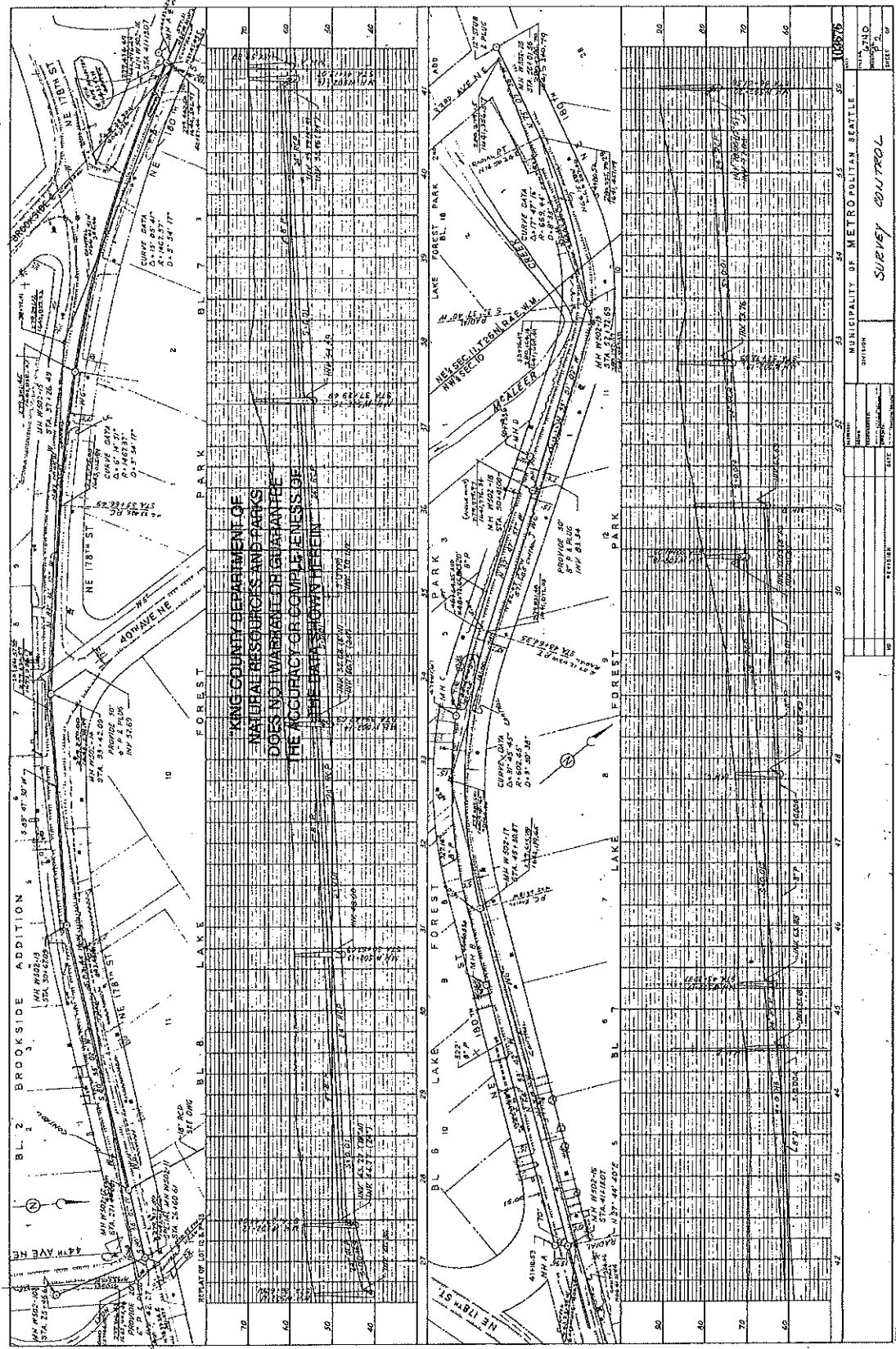
SCALE: [unclear]

PROJECT NO: [unclear]

DATE: [unclear]

BY: [unclear]  
CHECKED BY: [unclear]

SURVEY CONTROL



**Nick Holland**

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**From:** Nick Holland  
**Sent:** Wednesday, October 24, 2018 2:07 PM  
**To:** Neil Jensen  
**Subject:** FW: Notice of Application; L60 Culvert

FYI from North City Water District.

Nick Holland  
Senior Planner  
City of Lake Forest Park  
Planning and Building Department  
17425 Ballinger Way NE  
Lake Forest Park, WA 98155  
Direct: 206-957-2832



*Disclaimer: This email is considered a public record and may be subject to public disclosure.*

**From:** Diane Pottinger <dianep@northcitywater.org>  
**Sent:** Wednesday, October 24, 2018 1:40 PM  
**To:** Nick Holland <nholland@ci.lake-forest-park.wa.us>  
**Subject:** RE: Notice of Application; L60 Culvert

Nick-

Thank you for sharing these drawings. Here are my comments with regards to North City Water District:

1. Sheets 3, 4 and 5 of 13 show our water main on the west side of 44<sup>th</sup> Ave NE and the south side of NE 178<sup>th</sup> street along the western boundary of the project boundaries.
2. Sheet 4 of 13 shows two #13 – sawcut line (typ) which cross NCWD's water main along the southern boundary on 44<sup>th</sup> Ave NE and the western boundary along NE 178<sup>th</sup> Street. While we are confident that when utility locates are done during the construction processes, our water mains will be located so that the saw cutting through our mains can be avoided.

Best of luck with your project.

Diane

**From:** Nick Holland <nholland@ci.lake-forest-park.wa.us>  
**Sent:** Tuesday, October 23, 2018 6:28 PM  
**To:** Diane Pottinger <dianep@northcitywater.org>  
**Subject:** RE: Notice of Application; L60 Culvert

Diane,

Attached are the plans from the application. I'll be sure to remove Greg from our mailing list.

Nick Holland  
Senior Planner  
City of Lake Forest Park  
Planning and Building Department  
17425 Ballinger Way NE  
Lake Forest Park, WA 98155  
Direct: 206-957-2832



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**From:** Diane Pottinger <[dianep@northcitywater.org](mailto:dianep@northcitywater.org)>  
**Sent:** Tuesday, October 23, 2018 3:22 PM  
**To:** Nick Holland <[nholland@ci.lake-forest-park.wa.us](mailto:nholland@ci.lake-forest-park.wa.us)>  
**Subject:** RE: Notice of Application; L60 Culvert

Thanks for your call this morning Nick. If there is any way I could get a copy of these plans to confirm we are not involved, that would be helpful.

Also, I noticed on your email list Mark Gregg. He works for the City of Shoreline now.

Thanks.

Diane

**From:** Nick Holland <[nholland@ci.lake-forest-park.wa.us](mailto:nholland@ci.lake-forest-park.wa.us)>  
**Sent:** Monday, October 22, 2018 9:51 AM  
**To:** 'Angie Peace' <[angie.peace@dfw.wa.gov](mailto:angie.peace@dfw.wa.gov)>; 'Annette Pearson' <[Annette.Pearson@seattle.gov](mailto:Annette.Pearson@seattle.gov)>; 'Betty Meyer' <[betty.meyer@seattle.gov](mailto:betty.meyer@seattle.gov)>; 'PSCAA' <[SEPA@psc Cleanair.org](mailto:SEPA@psc Cleanair.org)>; 'Catie Lee CatherineLee' <[cleee@shorelinewa.gov](mailto:cleee@shorelinewa.gov)>; 'City of Brier' <[ngaudette@ci.brier.wa.us](mailto:ngaudette@ci.brier.wa.us)>; [sloyuk@kenmorewa.gov](mailto:sloyuk@kenmorewa.gov); 'City of Lynnwood' <[grivera@ci.lynnwood.wa.us](mailto:grivera@ci.lynnwood.wa.us)>; 'City of Mountlake Terrace' <[cityhall@ci.mlt.wa.us](mailto:cityhall@ci.mlt.wa.us)>; 'City of Seattle' <[prc@seattle.gov](mailto:prc@seattle.gov)>; 'City of Shoreline' <[pcd@shorelinewa.gov](mailto:pcd@shorelinewa.gov)>; 'D. Kaiser' <[dkaiser@nud.net](mailto:dkaiser@nud.net)>; 'David Matulich' <[david.matulich@pse.com](mailto:david.matulich@pse.com)>; 'Department of Ecology' <[SepaUnit@ecy.wa.gov](mailto:SepaUnit@ecy.wa.gov)>; Diane Pottinger <[dianep@northcitywater.org](mailto:dianep@northcitywater.org)>; 'DOE' <[separegister@ecy.wa.gov](mailto:separegister@ecy.wa.gov)>; 'E. Harris' <[eharris@psrc.org](mailto:eharris@psrc.org)>; 'Gary Greene' <[gary.f.greene@uscg.mil](mailto:gary.f.greene@uscg.mil)>; 'Jeff Smith' <[jeff.smith@ci.bothell.wa.us](mailto:jeff.smith@ci.bothell.wa.us)>; 'Jeff LaFlam' <[jlaflam@northshorefire.com](mailto:jlaflam@northshorefire.com)>; 'Kim Angel' <[kimberly.angel@shorelineschools.org](mailto:kimberly.angel@shorelineschools.org)>; 'King County' <[jacob.sheppard@kingcounty.gov](mailto:jacob.sheppard@kingcounty.gov)>; 'King County Department of Natural Resources' <[sepacenter@dnr.wa.gov](mailto:sepacenter@dnr.wa.gov)>; 'King County Metro Transit' <[Gary.Kriedt@kingcounty.gov](mailto:Gary.Kriedt@kingcounty.gov)>; 'King County Wastewater Treatment Division' <[Sharman.Herrin@kingcounty.gov](mailto:Sharman.Herrin@kingcounty.gov)>; 'King County Water District 83' <[alan@lfpwd.org](mailto:alan@lfpwd.org)>; 'Lake Forest Park Stewardship Foundation' <[info@lfpwf.org](mailto:info@lfpwf.org)>; 'Laura Murphy' <[laura.murphy@muckleshoot.nsn.us](mailto:laura.murphy@muckleshoot.nsn.us)>; 'Margaret Duncan' <[Margaret.Duncan@seattle.gov](mailto:Margaret.Duncan@seattle.gov)>; 'Mark Gregg' <[mgregg@ronaldwastewater.org](mailto:mgregg@ronaldwastewater.org)>; 'Mark Soltman' <[mark.soltman@doh.wa.gov](mailto:mark.soltman@doh.wa.gov)>; 'Mark Wilgus' <[mark.wilgus@kingcounty.gov](mailto:mark.wilgus@kingcounty.gov)>; 'Matt Bennett' <[matt.bennett@usace.army.mil](mailto:matt.bennett@usace.army.mil)>; 'Muckleshoot Indian Tribe Fisheries Division, ATTN: Karen Walter' <[Karen.Walter@muckleshoot.nsn.us](mailto:Karen.Walter@muckleshoot.nsn.us)>; 'Northshore Utility' <[fyee@nud.net](mailto:fyee@nud.net)>; 'NUD' <[talaxieff@nud.net](mailto:talaxieff@nud.net)>; 'Ramin Pazooki' <[PazookR@wsdot.wa.gov](mailto:PazookR@wsdot.wa.gov)>; 'SEPA desk WDFW' <[sepadesk@dfw.wa.gov](mailto:sepadesk@dfw.wa.gov)>; 'Shoreline Schools01' <[marla.miller@shorelineschools.org](mailto:marla.miller@shorelineschools.org)>; 'Suzanne Anderson' <[suzanne.l.anderson@usace.army.mil](mailto:suzanne.l.anderson@usace.army.mil)>; 'T. Crenshaw' <[tcrenshaw@nud.net](mailto:tcrenshaw@nud.net)>; 'WA Dept of Archeology' <[sepa@dahp.wa.gov](mailto:sepa@dahp.wa.gov)>; 'Washington Department of Fish and Wildlife'



<chris.anderson@dfw.wa.gov>

Cc: Neil Jensen <njensen@ci.lake-forest-park.wa.us>

Subject: Notice of Application; L60 Culvert

**EXHIBIT # 3.17**

Please see the attached.

Nick Holland  
Senior Planner  
City of Lake Forest Park  
Planning and Building Department  
17425 Ballinger Way NE  
Lake Forest Park, WA 98155  
Direct: 206-957-2832



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