MEETING MINUTES

Date: December 14, 2021
Meeting: City of Washington Farm Creek Trunk Sewer Project – Property Owner – Hamilton Consulting Engineers, Inc. - City Meeting
Time/Location: 11 a.m. at Washington Fire Department Training Room

Meeting Attendees: Reference attached Sign-In Sheet

1. The meeting commenced at 11 a.m. with attendees getting lunch, followed by introduction of the Hamilton Consulting Engineers (HCE) team.

2. The agenda (attached) was presented, and the meeting progressed per the agenda.

   Howard J. Hamilton, PE, CFM, CPESC (HJH), the HCE Project Manager, gave a brief overview of the project approach per the presentation (attached) followed by a period of Q&A.

Question: Will interviews with individual property owners be held?
HJH: No, but an online questionnaire will be made available.

Question: How do you come up with the service area?
HJH: Topographic service area providing 8-foot sewer bury at 0.40%.

Question: Do you consider the flow of the creek in the future- NCRS said “increase of 10X”?
HJH: Do not know why they would say this – development without stormwater detention can increase flows, but that is not allowed.

Question: For the original sewer, do you know how much cover they had?
HJH: We would need to review the plans.

Question: Will you calculate scour?
HJH: Not part of the scope of this review but would be required if there is a new design. Casing pipes are required for any future stream crossing.

Question: What is the width of a construction easement?
HJH: It depends on the project – 25 feet each for both a temporary construction easement and permanent easement, so around fifty feet total during work, but it could be up to one hundred feet if deeper excavation is required.

Question: How deep is deep?
HJH: Over 10-15 feet.

Question: Why are alignments called “Better, best, etc.”?
HJH: We used same terminology as the Pudik’s report.

Question: Will the new sewer be on top the old one?
HJH: It depends, we are looking at several options and combination of options

Question: Any idea of the elevation for E3 alignment?
HJH: We plotted cross sections and had one approx. fifty-foot directional bore.

Question: Effects on tree lines?
HJH: Trees will be avoided when possible. Trenchless technology is not always a viable option.

Question: Is collapse of the pipe possible?
HJH: Not close to houses, proper pipe design and construction will minimize collapse potential.

Question: Any long-term issue for home foundations?
HJH: No – no settlement anticipated.

Question: Do you need easements?
HJH: It depends on the alignment:

- Permanent: 25-30 feet
- Temporary construction: additional 25+ feet

Question: There are no perfect options, so solutions will be found?
HJH: Yes, HCE will recommend solutions to problems identified in each of the design alternatives, which the City will ultimately weigh in choosing their preferred course.

Question: Safety hazards for kids playing near construction?
HJH: This is a critical consideration for all parties:

- Fencing – typically use orange mesh
- Typical to cover trenches at end of day when working near houses
- Contractors are required to minimize hazards

Question: Do you have sewer pipe elevations for whole project area?
HJH: No, not all but more than we had to start.

Question: Do you anticipate doing any survey work?
HJH: Not for this phase, probably in next phase

Question: Have you looked at the Route B elevations - B is south of the tracks?
HJH: Yes, off the top of my head that route has some 30–40-foot elevations.
*A property owner added that there is a 46-foot elevation

Question: What are HCE options?
HJH: Not ready to share yet, still reviewing and studying.

Question: Any other creative solutions such as using the existing sewer or other?
HJH: Yes but have to put costs with those options. They will be in the report.

Question: Were the diagrams in the power point supplied by HCE?
HJH: Yes, mostly.
But the ones showing the three options?
HJH: Yes, we compiled Strand and Pudik options
The good/better/best is HCE recommendation?
HJH: No, this is referring back to the Pudik report
Please stop using this terminology as it is misleading.
HJH: Good point, we will stop.

Question: Does this work cover sewer only?
HJH: Yes, there is no stormwater for this project. This is an EPA-mandated project, we are the third firm to review it.

Question: Will you address erosion?
HJH: Yes – maintaining banks and do not destabilize them is required for a typical stream in Illinois.

Question: Will you perform a cost analysis?
HJH: Yes, cost is a critical factor in review of options. And, cost is not always just Day 1 cost – operation and maintenance are also factors for review.

Question: Any non-gravity-flow technology that could be used?
HJH: Yes, there are several options, but they may not be appropriate here and yes, those options will be considered in the analysis.

Question: Is there a lot of stormwater passing through the sewer?
HJH: Yes, we can see this with the flow data.

Question: What about the existing sewer?
HJH: We have to evaluate options with the City – could leave in place and use it, could abandon it. But, it can't be abandoned in place, it must be removed which has a cost, or filled, though some could be abandoned. Each option has a cost, but access will be needed to the existing trunk line to complete this, even if it is not kept in use.

Question: If you have existing easements, why not use that route?
HJH:

- You cannot just put a new pipe in the existing easement because the waste has to go somewhere while you are building the new one.
- Easements are not wide enough

Question: What happens to the existing connections to houses?
HJH: There are no direct connections to houses on this line – all connections are on the laterals.

Question: Where will the walk take place relative to the railroad tracks?
HJH: Planning to look at both sides, using existing sewer as baseline.

Question: Does L-1 bisect private property?
HJH: Yes, all the options do.

Question: Route B is mostly RR property – isn't this a low impact on property owners' route?
HJH:

- Cannot access RR property or adjacent to RR property without permission
- Agriculture and heavily wooded

Question: Creek crossings needed?
HJH: Need three different permits to cross, or you can dig a hole/bore under with manholes required in each side, has to be analyzed on a case-by-case basis.

Question: How much access needed in the future?
HJH: Need access to manholes.

Question: Have you had a chance to drive both sides of the tracks?
HJH: Yes.

Question: Use of land bisected affected - plantings, future development?
HJH:

- No building on easement is typical, though some towns allow it
- Crops are encouraged to go back on the sites
- Trees are allowed depending on the depth of the sewer and the type of the tree

Question: How deep can a sewer be constructed?
HJH: Our job is to evaluate options:

- Cannot go too deep because we have to meet STP2
- Try to avoid going too deep due to construction and maintenance issues

Question: STP2 – reducing service area, how does it look long term? Can STP2 handle another trunk?
HJH: We really have a blank canvas:

- Reduce the peak flows
- Land-intensive technology at STP2
- Do not want too many lift stations
- STP 2 could also be expanded in the future for a larger service area as needed.

Question: What is the deepest you can bore?
HJH: We have gone down sixty-two feet for a short stretch, but typically like to be in the 10-foot range.

Question: There are some 70-foot elevation changes in some of the options?
HJH: The project has to be buildable – that elevation change is an issue.

Question: The original report has Cummings Lane showing this depth?
HJH: At that depth, standard pipes do not work.

Question: Safety must be considered for going down manholes that deep?
HJH: Yes, they typically only send cameras and not people down manholes today – no people.

Question: Those deep depths do not seem to fit residential areas?
HJH: Lift station could be an option.

3. The walk started early, at 12:30 pm instead of 1:30 pm since we were done with lunch and questions.
    a. Met at STP 2
    b. The group walked through to STP1, most arriving at 4 pm
        i. The first sub-group, with HCE Project Manager Howard Hamilton, split to the northerly route
        ii. The second sub-group, with HCE Project Engineer Jeffrey Snape, walked the southerly route

CITY OF WASHINGTON
FARM CREEK TRUNK SEWER PROJECT

SIGN-IN RECAP:
PROPERTY OWNER – ENGINEER – CITY MEETING & SITE WALK - 12/14/21

	ATTENDING:	
NAME	LUNCH	SITE WALK
BRETT PUDIK	X	X
DEVIN MOOSE	X	X
CASE PUDIK	X	
TROY PUDIK	X	X
BRIAN ALBRRIGHT	X	
MARK WESTON	X	
BRIAN BUTLER	X	X
MELISSA MONTGOMERY	X	
BRAD MONTGOMERY	X	
JESSE PLACHER	X	
BRIAN RITTENHOUSE	X	X
MICHAEL MAXHEIMER	X	
GARY DEITERS	X	
BRIAN TIBBS	X	X
RUSS PLATTNER	X	

	ATTENDING:	
NAME	LUNCH	SITE WALK
KENNY WEIGAND	X	X
KRIS HASTEN	X	X
JOE ARNOLD	X	X
DENNIS CARR	X	X
ROSS FULLER	X	X
KEVIN SCHONE	X	X
SAM MILLER	X	X
JIM SNIDER	X	X
JEFF SNAPE	X	X
KRISTEN HAMILTON	X	
HOWARD HAMILTON	X	X

Certified DBE-WBE-BEP

CITY OF WASHINGTON
FARM CREEK TRUNK SEWER PROJECT

AGENDA
PROPERTY OWNER – ENGINEER – CITY MEETING AND SITE WALK-THROUGH

Tuesday, December 14, 2021

1. **Working Lunch Meeting to gain Property Owner Input**
   11:00 am – 1:00 pm at the Washington Fire Department Training Room, 200 N. Wilmore Road

   - Introductions and settle in with lunch
   - Brief project presentation by HCE
   - Questions and discussion
   - Plan for Site Walk

2. **Site Walk of the Project Area per attached Site Map**

   1:30 – 4:00 pm - meet at Sewage Treatment Plant (STP) 2, 955 Ernest St.
   - Walk the Project Area to STP 1, 700 Woodland Trail
   - Questions and discussion during the walk
   - HCE and the City will have two vehicles parked at STP1 to "ferry" the walkers back to their vehicles at STP2

Kristen Hamilton's Cell # for use on 12/14/21: 815-791-3445

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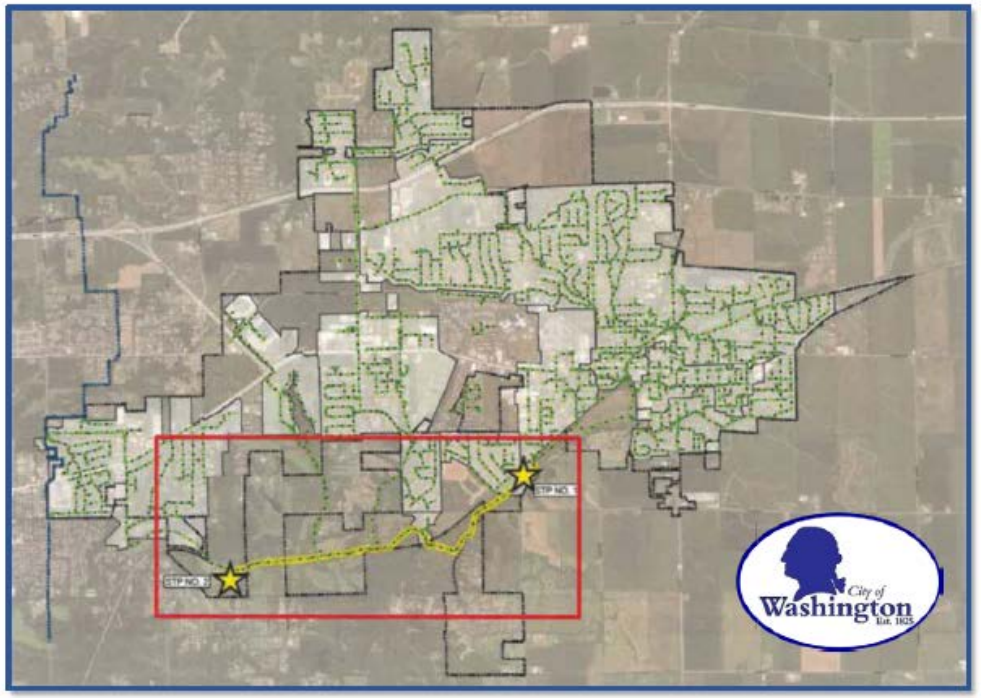
Proposal to Conduct a 3rd Party Alternative Alignment Analysis *for the* Farm Creek Trunk Sewer

City of Washington, Illinois



Hamilton Consulting Engineers, Inc. September 8, 2021

3230 Executive Dr. Joliet, IL 60431-8401 – HamiltonConsultingEngineers.com – 815.730.3444 – 815.730.6703

DBE-WBE-BEP

Hamilton Consulting Engineers, Inc.

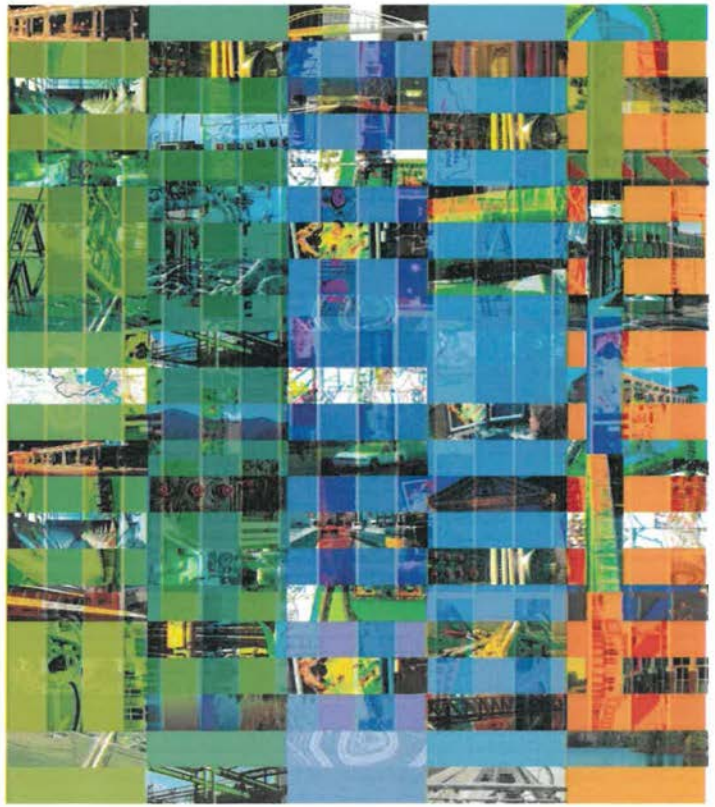
Kristen R. Hamilton, Chairman/CEO	QA/QC
Howard J. Hamilton PE, CFM, CPESC	**Project Manager**
Jeffrey T. Snape PE, LEED-AP	Project Engineer

Professional

Engineering

Services

Preliminary Engineering Study for the Farm Creek Trunk Sewer



Report

City of

Washington, IL

October 2019

STRAND ASSOCIATES

HAMILTON CONSULTING ENGINEERS, INC.
HCE
DBE-WBE-BEP

Report Stated FCTS Replacement Project Purpose

- ❑ IEPA mandate to decommission STP No. 1
- ❑ Age and condition of the existing sewer system
- ❑ Excess flow conditions during wet weather (I&I)
- ❑ Operation and maintenance issues along the creek
- ❑ Future development exceeding current sewer capacity

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Report Stated FCTS Replacement Project Goals

- ❑Be accessible for maintenance
- ❑{Limit} Number, size, and impact of easements required
- ❑Protect the new sewer from instability and erosion of Farm Creek
- ❑Achieve durability and reliability for trunk sewer function and operation
- ❑Be respectful of nature and the environment
- ❑Cost-effective solutions – construction and O&M
- ❑Be responsive to and consistent with long-range plans, initiatives, and missions:
  - ❑City of Washington, Tazewell County, Regional
  - ❑IDNR and IEPA
  - ❑Illinois Forestry and Forest Action Plan
  - ❑USACE and USEPA

Homeowner Stated Goals

- ❑ Avoid Farm Creek crossings
- ❑ Avoid wetland and floodplain areas
- ❑ Avoid potential for pollution and contamination of surface water and land
- ❑ Avoid destruction of trees and endangered species habitat
- ❑ Avoid archaeologically significant areas
- ❑ Maximize alignment within open access corridors
  - ❑ Ease of access during construction and maintenance
  - ❑ Faster land recovery rate post-construction

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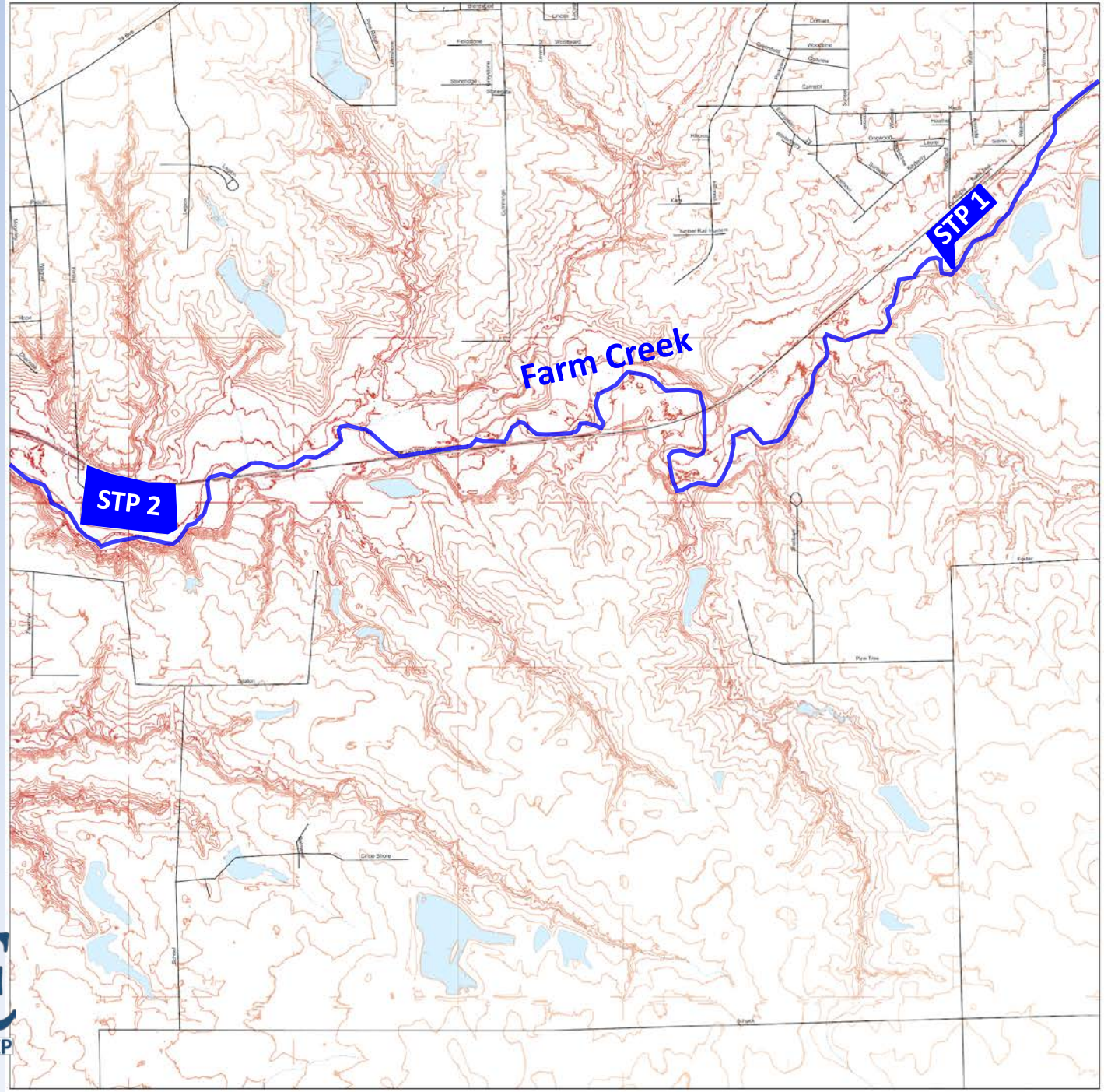

Farm Creek

Legend

- RAILWAYS
- STREETS
- Streams / Creeks / Ditches
- Tazewell_Hydro_Breaklines

10' Contours

Contour

840
830
820
810
800
790
780
770
760
750
740
730
720
710
700
690
680
670
660
650
640
630
620

1 inch = 600 feet

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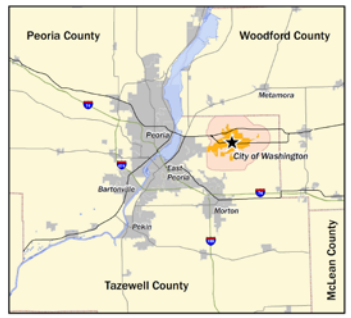
CITY OF WASHINGTON

TAZEWELL COUNTY, ILLINOIS

COMPREHENSIVE PLAN

City of Washington
Est. 1825

Washington, Illinois was founded in 1825. As of 2017, the US Census recorded 16,566 residents living in the City Washington. Over the past decade, Washington has been among the fastest growing communities in central Illinois with 1,500 new housing starts, new commercial construction totaling about 900,000 square feet, and a 40% growth in population.



ELECTED CITY OFFICIALS

Mayor - Gary Manier

Alderman, Ward I - Mike Brownfield
Alderman, Ward I - Lilija Stevens
Alderman, Ward II - Brett Adams
Alderman, Ward II - Todd Yoder
Alderman, Ward III - Brian Butler
Alderman, Ward III - David Dingledine
Alderman, Ward IV - John Blundy
Alderman, Ward IV - Daniel Cobb
City Clerk - Valeri Brod
City Treasurer - Ellen Dingledine

Map is provided for use as a planning tool & data is provided 'as is' without warranty or any representation of accuracy, timeliness, or completeness. Newly constructed streets or recently annexed areas may not be shown.

Printed: Date: 9/11/2020

Prepared by the City of Washington
Department of Planning & Development.
For information contact Planning & Development Director,
Jon Oliphant, AICP.

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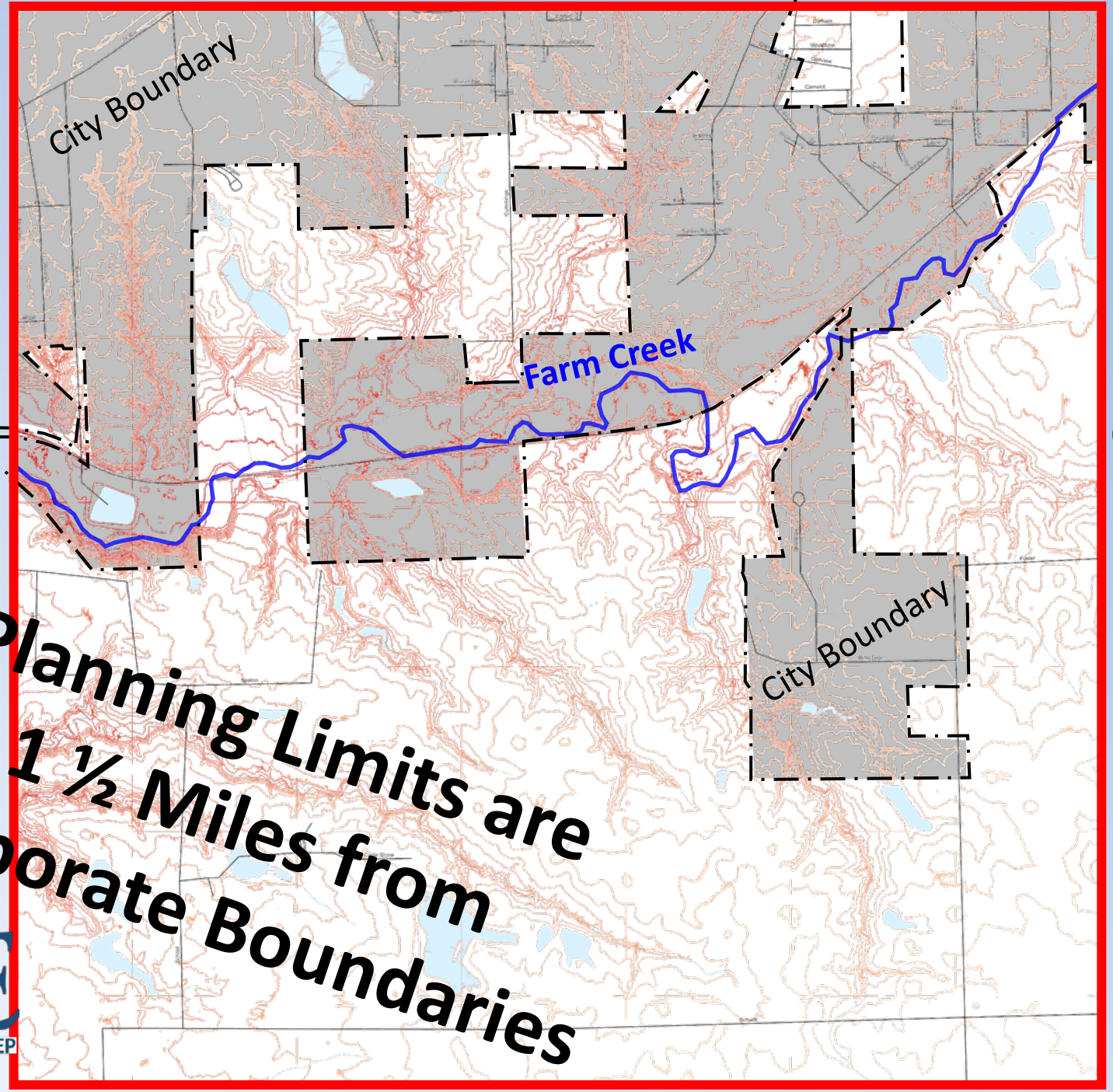
City Boundaries

Comprehensive Planning Limits



Planning Limits are 1 ½ Miles from Corporate Boundaries

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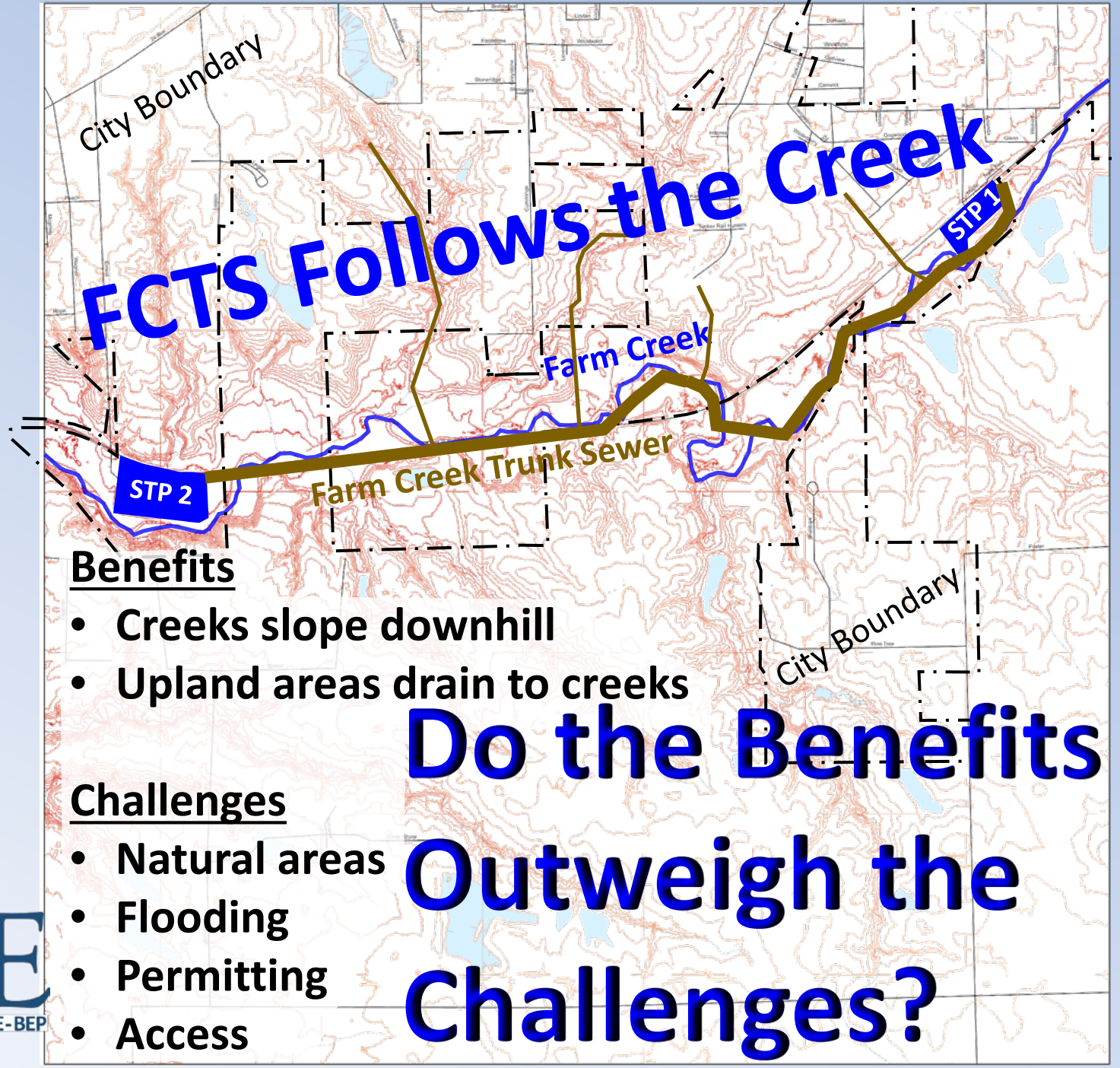
1 inch = 600 feet

Existing Farm Creek Trunk Sewer



Benefits

- Creeks slope downhill
- Upland areas drain to creeks

Challenges

- Natural areas
- Flooding
- Permitting
- Access

Do the Benefits Outweigh the Challenges?

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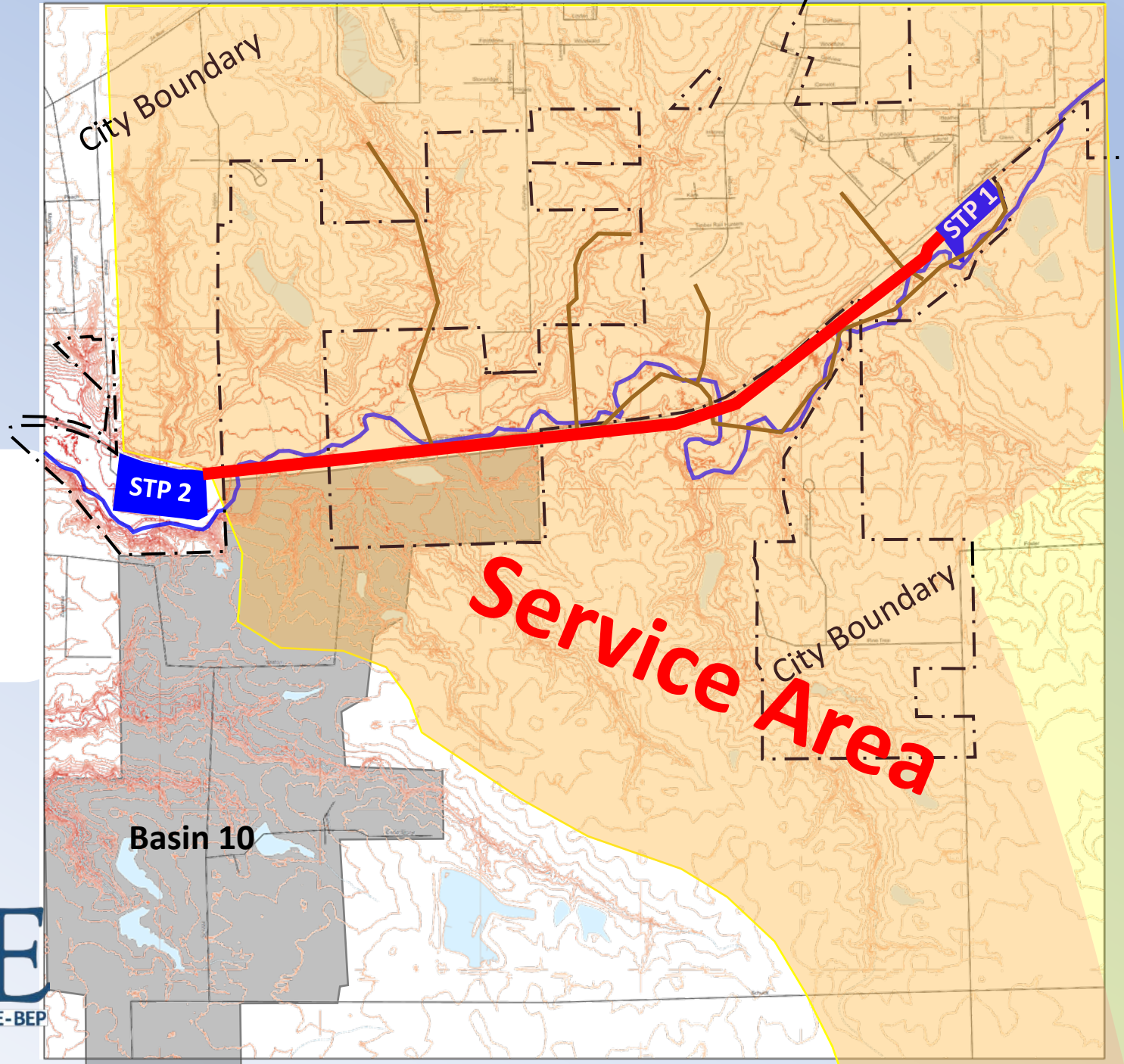
1 inch = 600 feet

Strand Alignment
Alternate B



Existing FCTS

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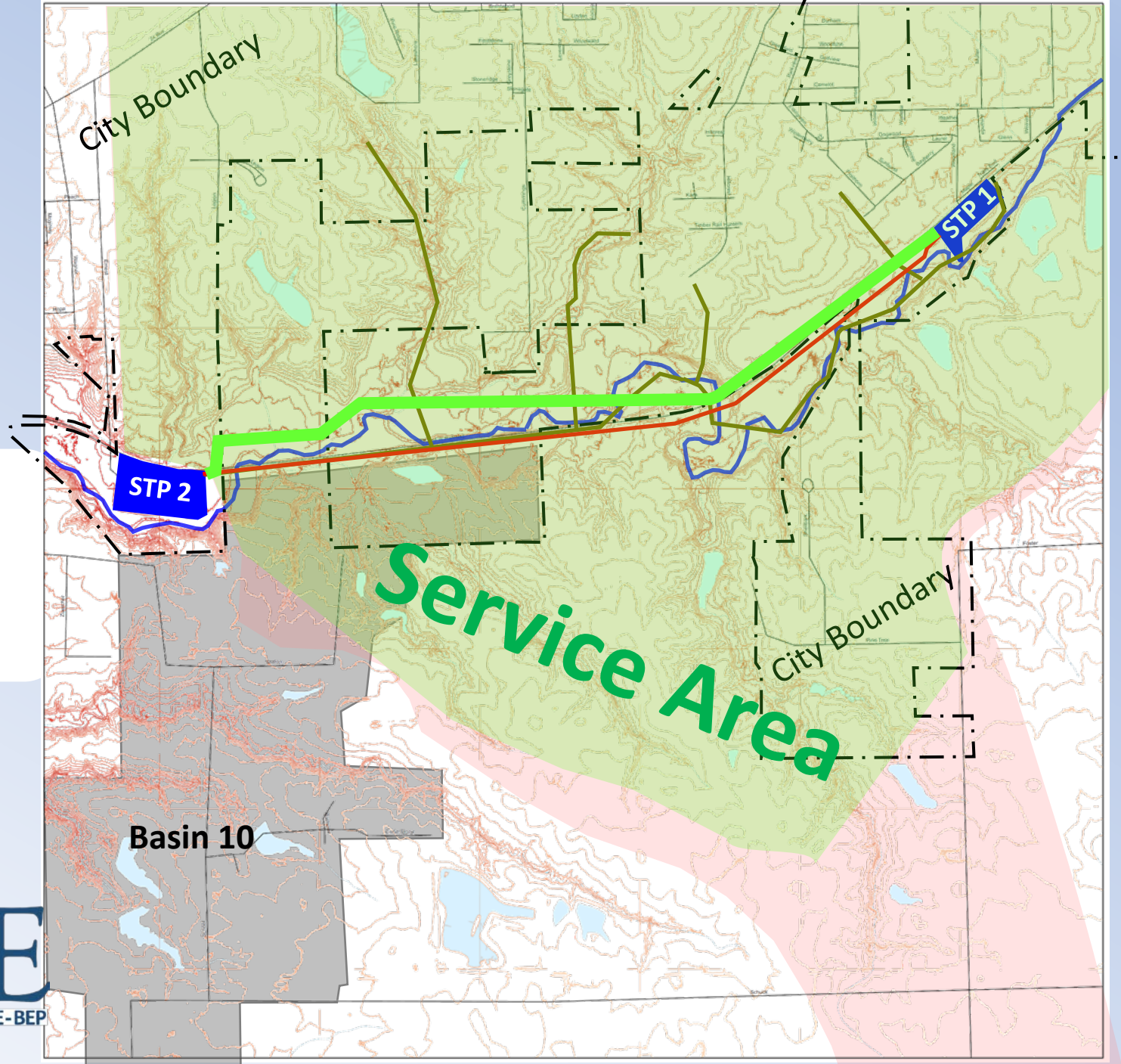
1 inch = 600 feet

Alternate L-1 "Best"



Strand Alignment
Alternate B
Existing FCTS

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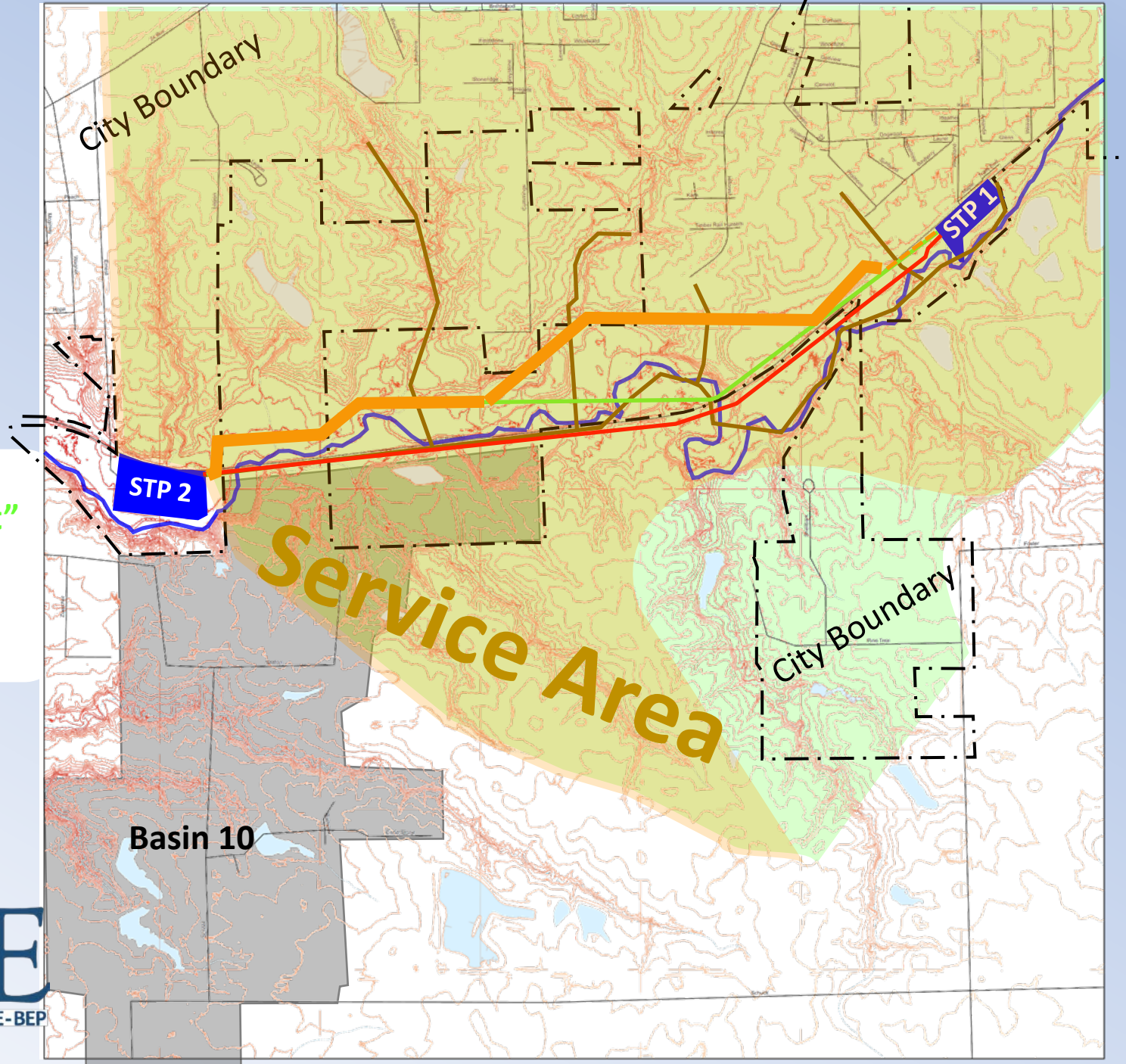
1 inch = 600 feet

Alternate E-3 "Better"



Alternate L-1 "Best"
Strand Alignment
Alternate B
Existing FCTS

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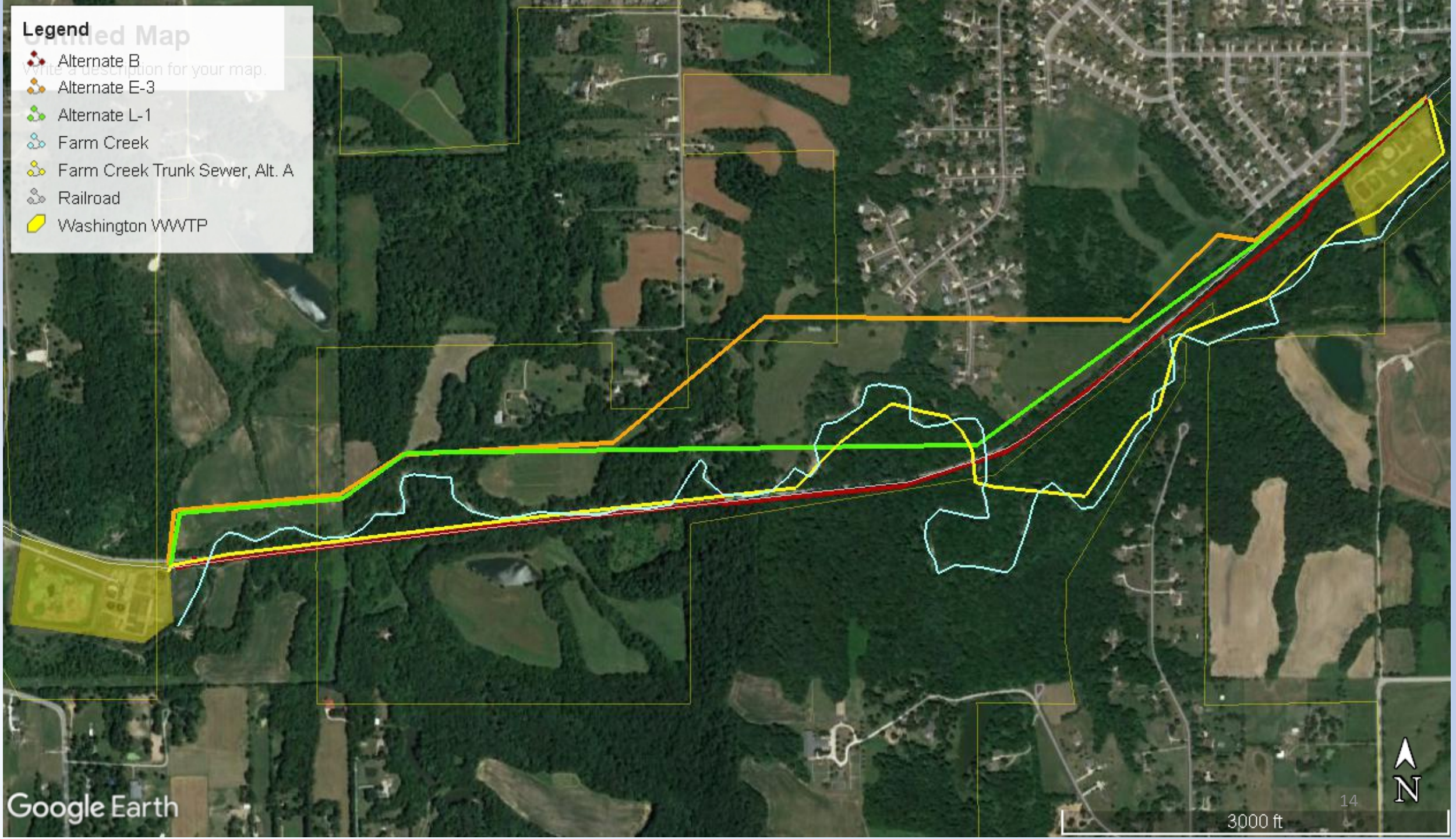
1 inch = 600 feet


Legend
Alternate B
Alternate E-3
Alternate L-1
Farm Creek
Farm Creek Trunk Sewer, Alt. A
Railroad
Washington WWTP
Google Earth
3000 ft
N

Technical Components of the Final Report

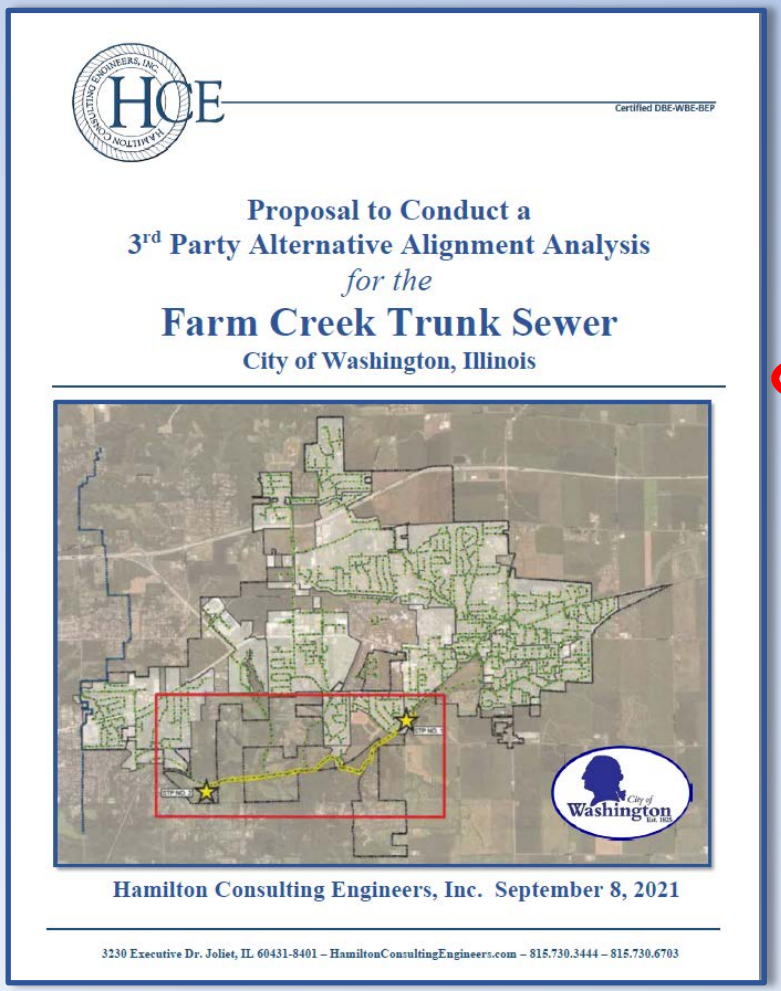
a. Environmental Impacts
b. Cultural Resource Impacts
c. Landowner Impacts (easement locations)
d. Accessibility
e. Future Service Area Expansion Opportunities
f. Permitting Issues (IDNR, USCOE, IEPA)
g. Licensing, Crossing Agreement Requirements
h. Impact On Residents of the City (immediate and long-term)
i. Opinions of the Residents of the City (if any)
j. Preferences of City Staff
k. Cost Effectiveness (short-term and long-term costs)
l. Constructability
m. Others as found necessary
n. Meeting Memoranda

What we hope to learn today

HAMILTON CONSULTING ENGINEERS, INC. HCE DBE-WBE-BEP

1. Collect Data
2. Interview City Staff
3. Interview Homeowners

Walk the alignment(s) as a group



1. Collect Data
2. Interview City Staff
3. Interview Homeowners
4. Website, Questionnaire
5. Draft Report
6. Report Revisions
7. Public Hearing
8. Final Draft Report
9. Presentation to Council
10. Final Report

hhamilton@HCEmail.org

HAMILTON CONSULTING ENGINEERS, INC. HCE DBE-WBE-BEP

QUESTIONS?

Kristen R. Hamilton, Chairman/CEO	QA/QC
Howard J. Hamilton PE, CFM, CPESC	Project Manager
Jeffrey T. Snape PE, LEED-AP	Project Engineer

HAMILTON CONSULTING ENGINEERS, INC. HCE DBE-WBE-BEP


Legend
Alternate B
Alternate E-3
Alternate L-1
Farm Creek
Farm Creek Trunk Sewer, Alt. A
Railroad
Washington WWTP
Do we want to take a walk?
Google Earth
3000 ft
N