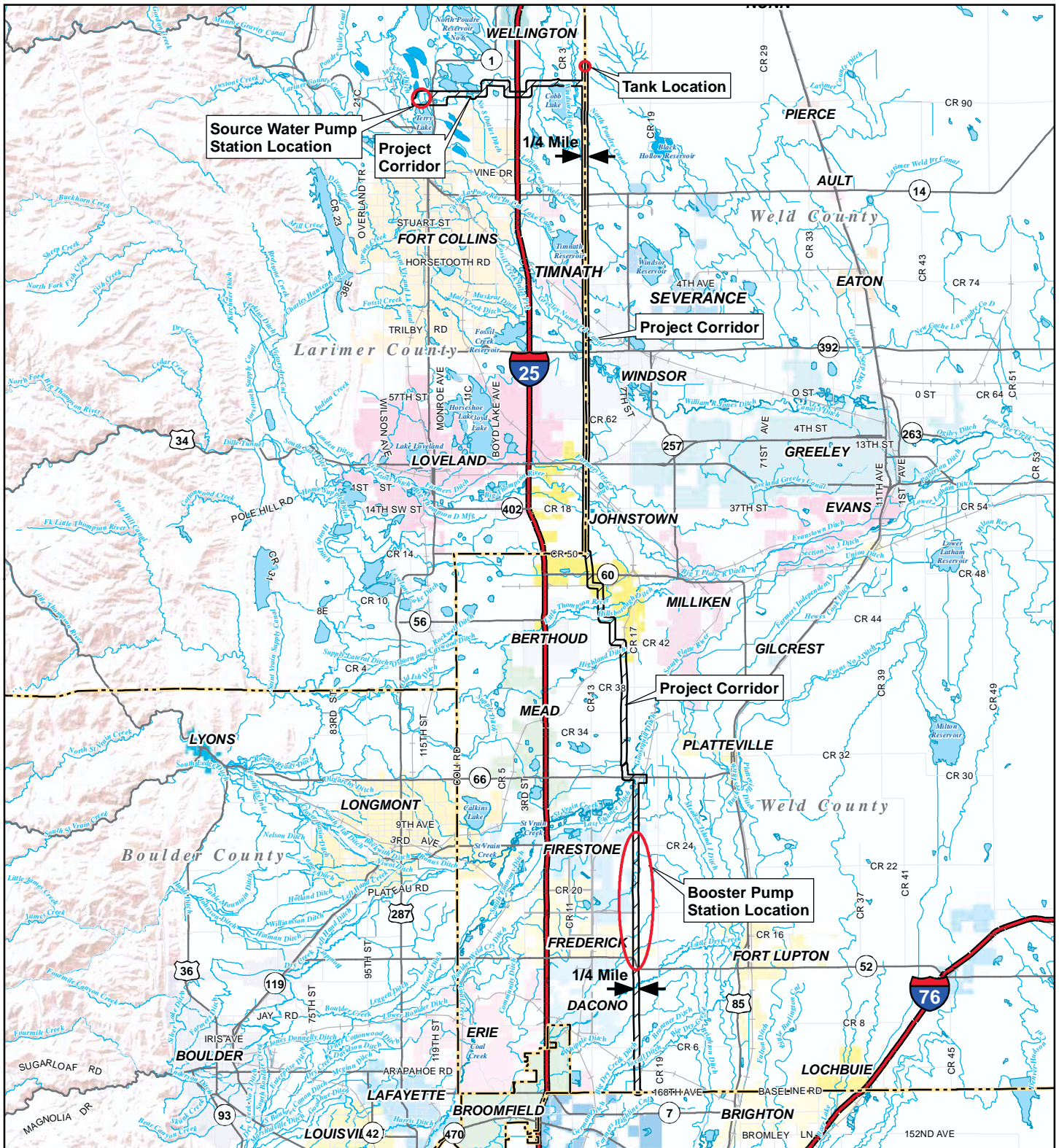


APPENDIX E
Stakeholder Outreach

Irrigation and Ditch Companies

Figure 2 - TWP Corridor accompanies each ditch company stakeholder letter

Thornton Water Project



- Railroad
- County Boundary
- Lake/Reservoir
- River/Stream/Canal/Ditch

Figure 2
Thornton Water Project Corridor

CITY OF THORNTON
COLORADO
12450 WASHINGTON ST
THORNTON, CO 80241-2405



1 inch = 6.25 miles
0 1.5 3 6 Miles

12/5/2016



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Dale Trowbridge
Cache La Poudre Reservoir Company
PO Box 104
Lucerne, CO 80646

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Trowbridge:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is currently developing land use permits for the Project, and no definitive design has been completed to date. Thornton has identified a preferred corridor for the pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with facility operators to build our awareness of existing, planned improvements or future facilities, and to ensure that agency questions are addressed.


The attached Figure 1 shows locations that we have identified where the Project corridor crosses your facilities. The overall Project corridor map (Figure 2) is also included in the event that there are other facilities that you own that we may have missed. Please review the attached figures, so that we can begin to coordinate facility crossings within the corridor that will support the development of a pipeline alignment.

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- A copy or example of a typical facility crossing/encroachment agreement.
- If applicable, a copy of a crossing application or other process and estimated timing.
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Thank you and for questions, to coordinate a meeting, or to transfer the requested information, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,


John Himyak
Thornton Water Project Engineer

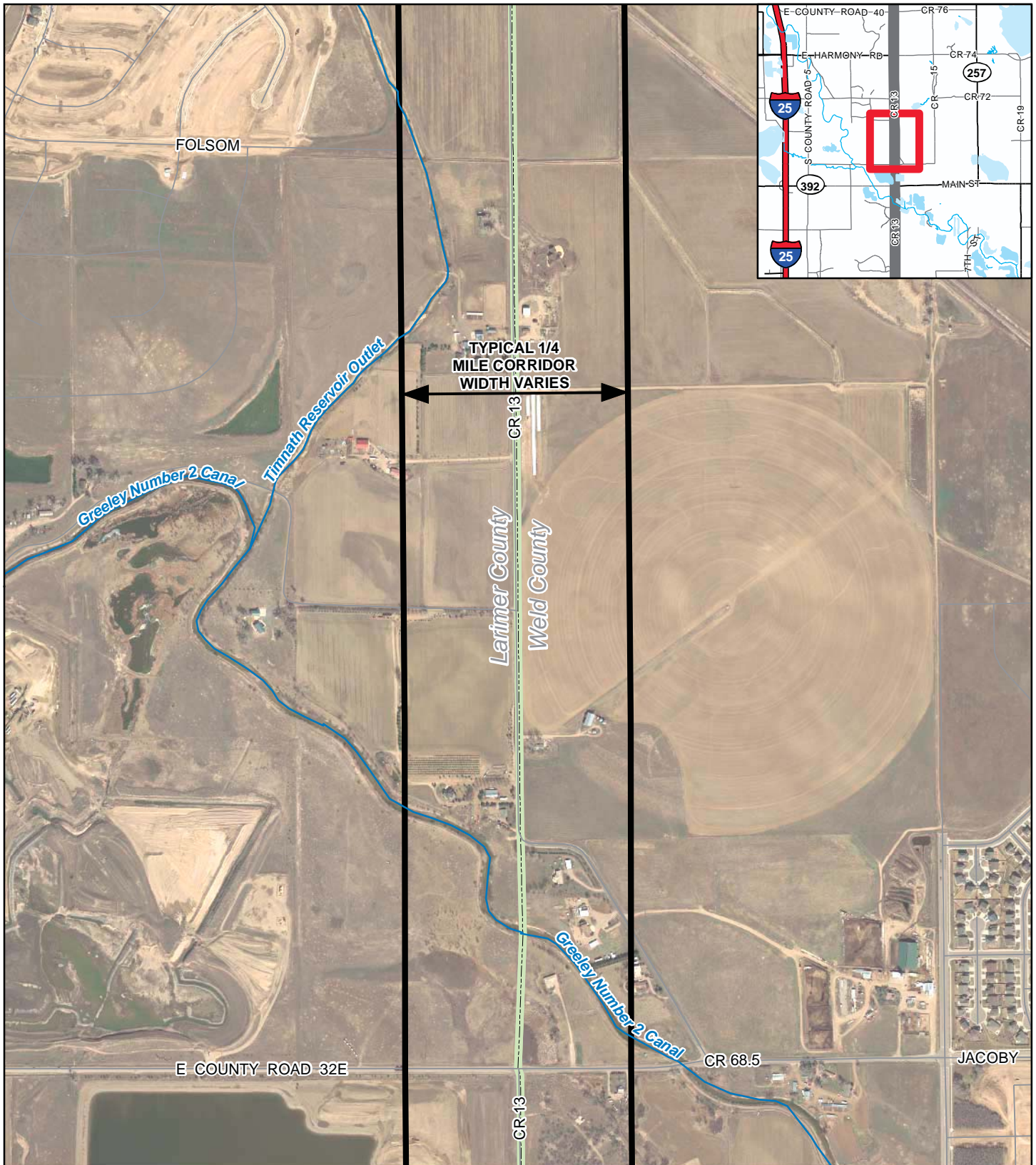


Figure 1

Thornton Water Project

Timnath Reservoir Outlet and Greeley Number 2 Canal
 Cache La Poudre Reservoir Company
 Larimer and Weld Counties



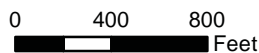
**CITY OF THORNTON
 COLORADO**

12450 WASHINGTON ST
 THORNTON, CO 80241-2405

12/6/2016



1 inch = 800 feet





Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. David Burnhardt
Greeley-Loveland Irrigation Company
808 23rd Ave
Greeley, CO 80634

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Burnhardt:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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John Himyak
Thornton Water Project Engineer

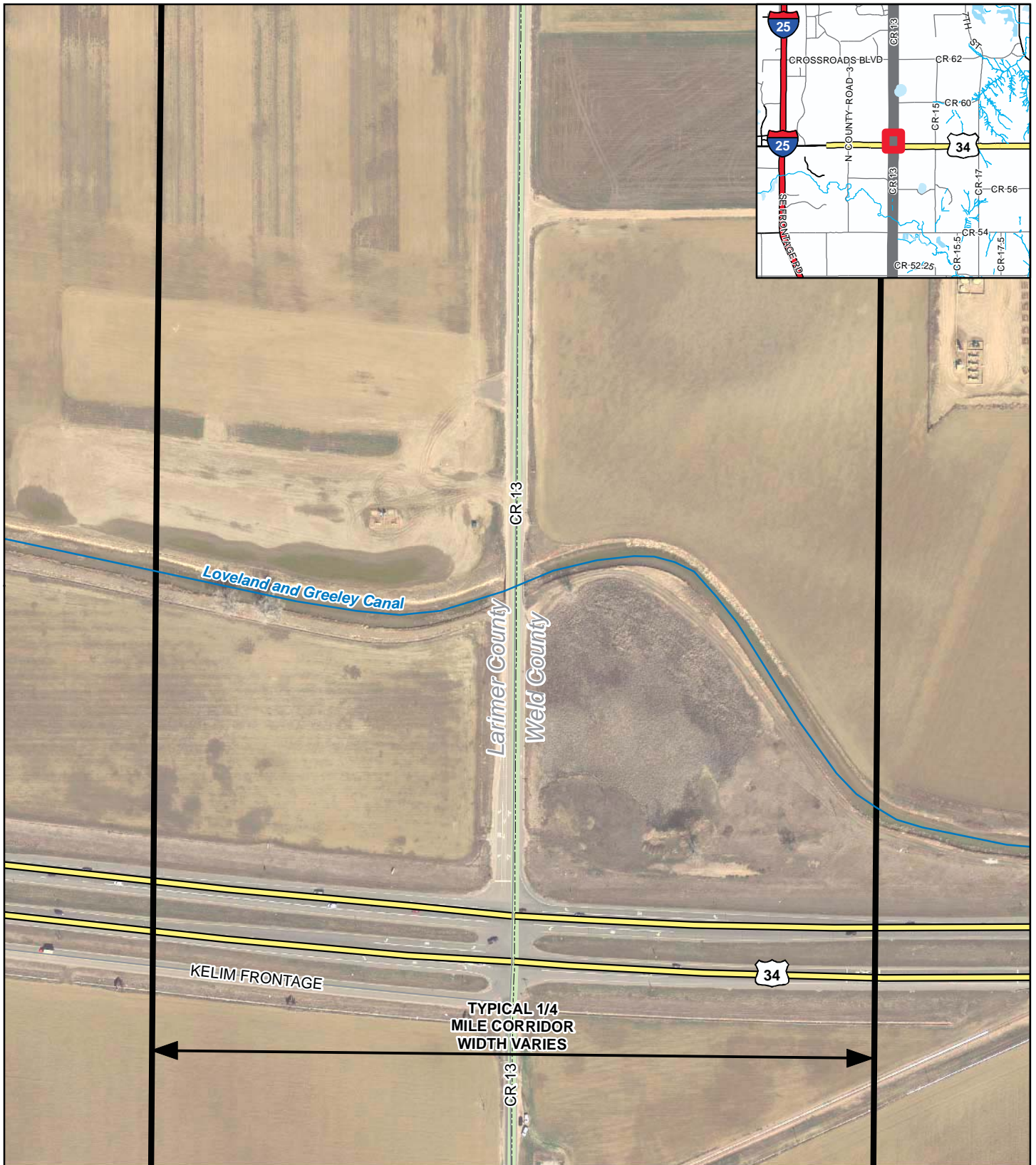


Figure 1

Thornton Water Project
 Loveland and Greeley Canal
 Greeley-Loveland Irrigation Company
 Larimer and Weld Counties

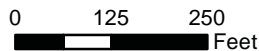
**CITY OF THORNTON
 COLORADO**

12450 WASHINGTON ST
 THORNTON, CO 80241-2405

12/6/2016



1 inch = 250 feet





Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Robert Schlagel
Highland Ditch Company
4309 State Highway 66
Longmont, CO 80504

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Schlagel:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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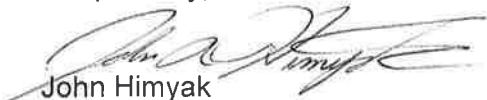
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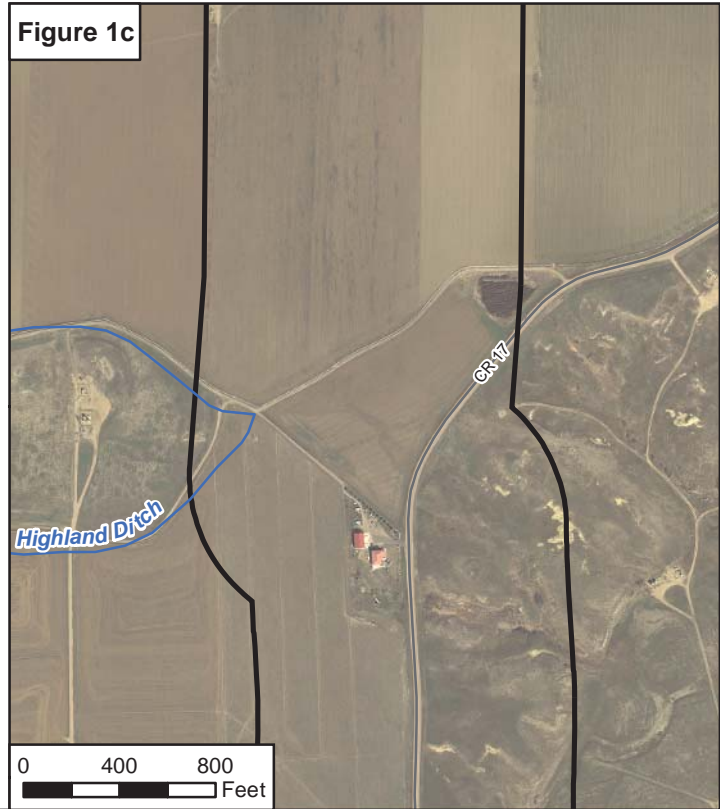
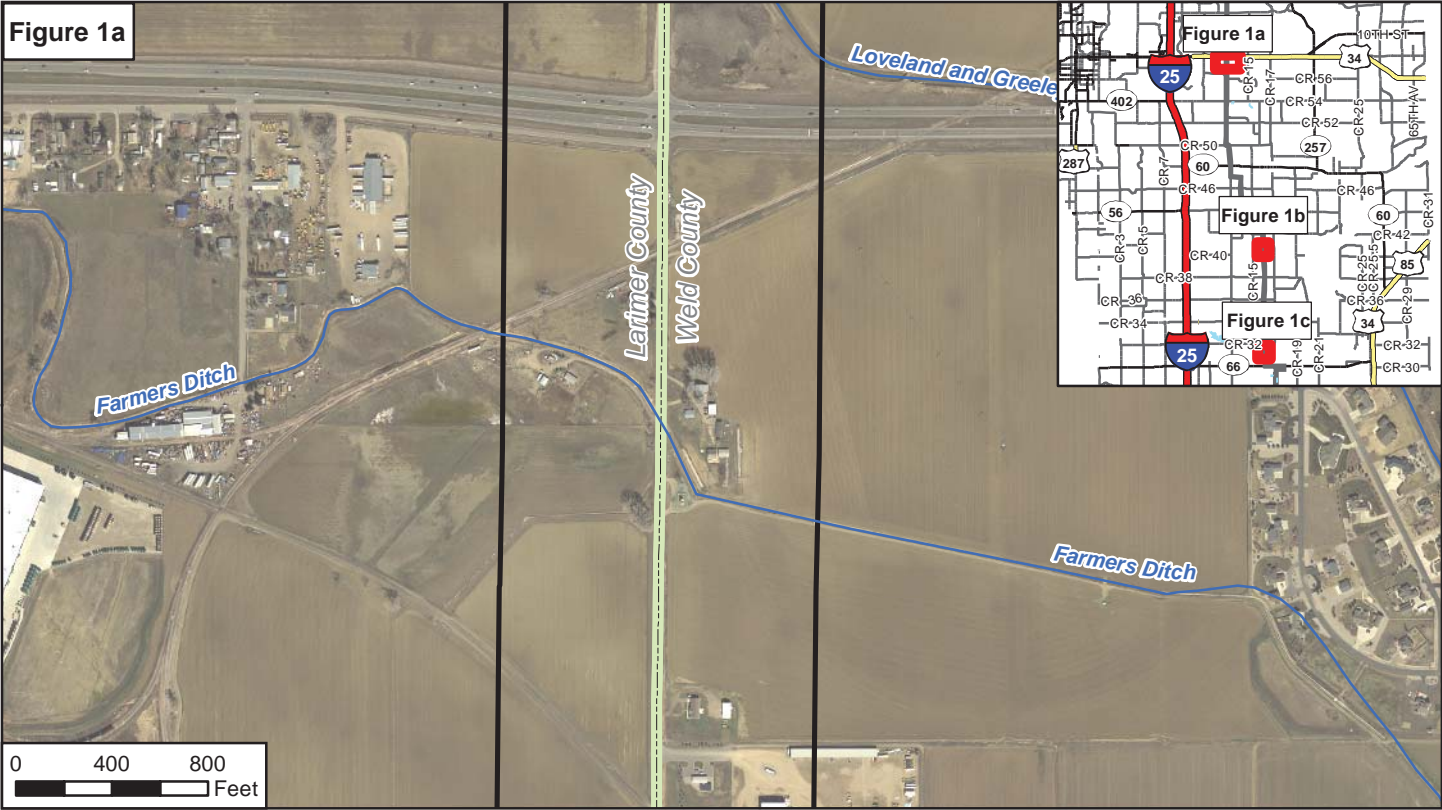
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Respectfully,


John Himyak
Thornton Water Project Engineer





Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Emanuel Betz
Consolidated Hillsborough Ditch Company
6835 Weld County Road 52¼
Johnstown, CO 80534

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Betz:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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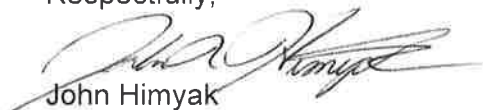
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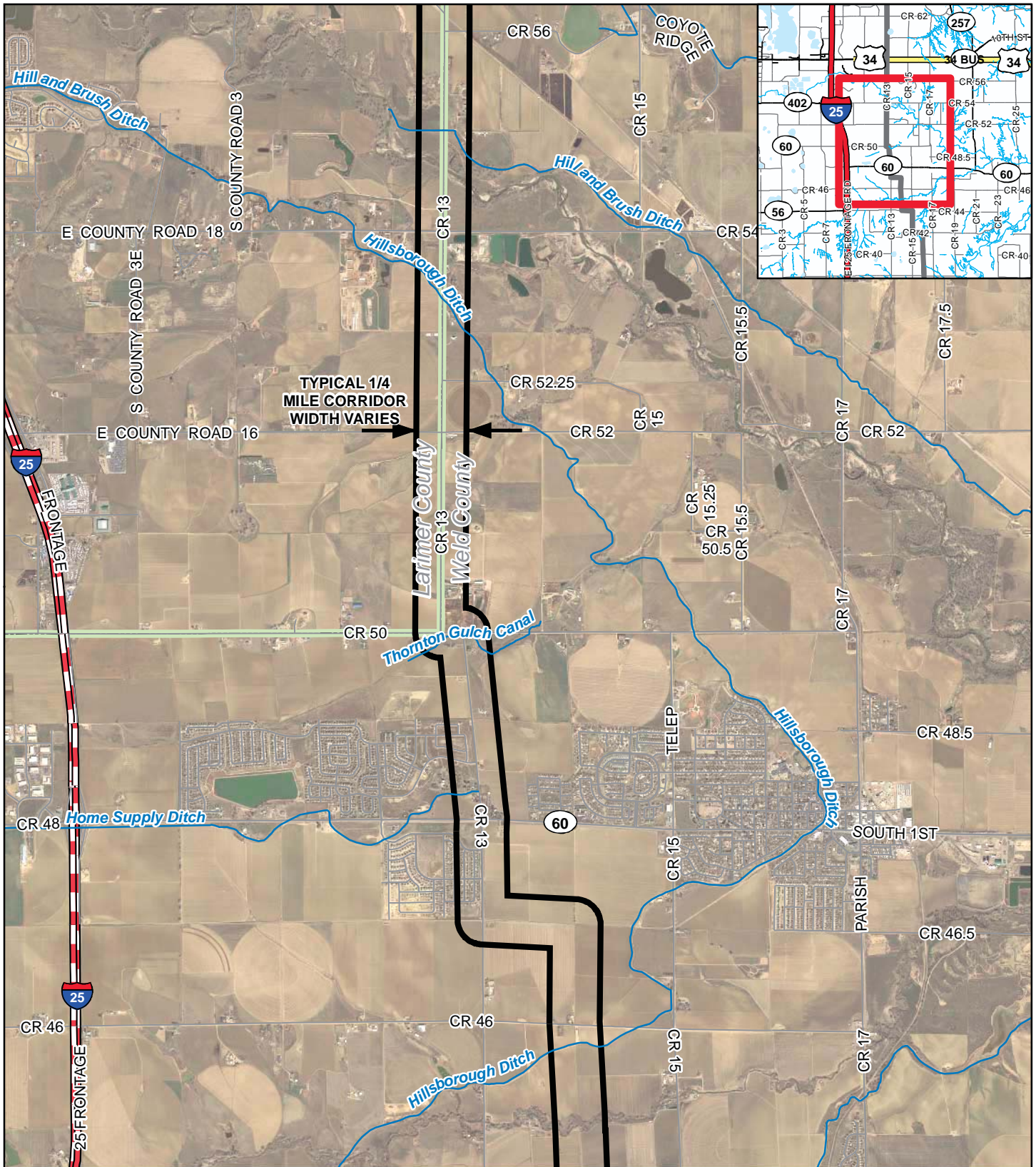
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Respectfully,


John Himyak
Thornton Water Project Engineer



**CITY OF THORNTON
COLORADO**

12450 WASHINGTON ST
THORNTON, CO 80241-2405

12/6/2016



1 inch = 3,600 feet

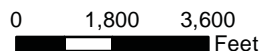


Figure 1

Thornton Water Project

Hillsborough Ditch, Hill and Brush Ditch
Consolidated Hillsborough Ditch Company
Larimer and Weld Counties





Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Justin Green
Lake Canal Reservoir Company
13329 Weld County Road 74
Eaton, CO 80615

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Green:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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Respectfully,


John Himyak
Thornton Water Project Engineer

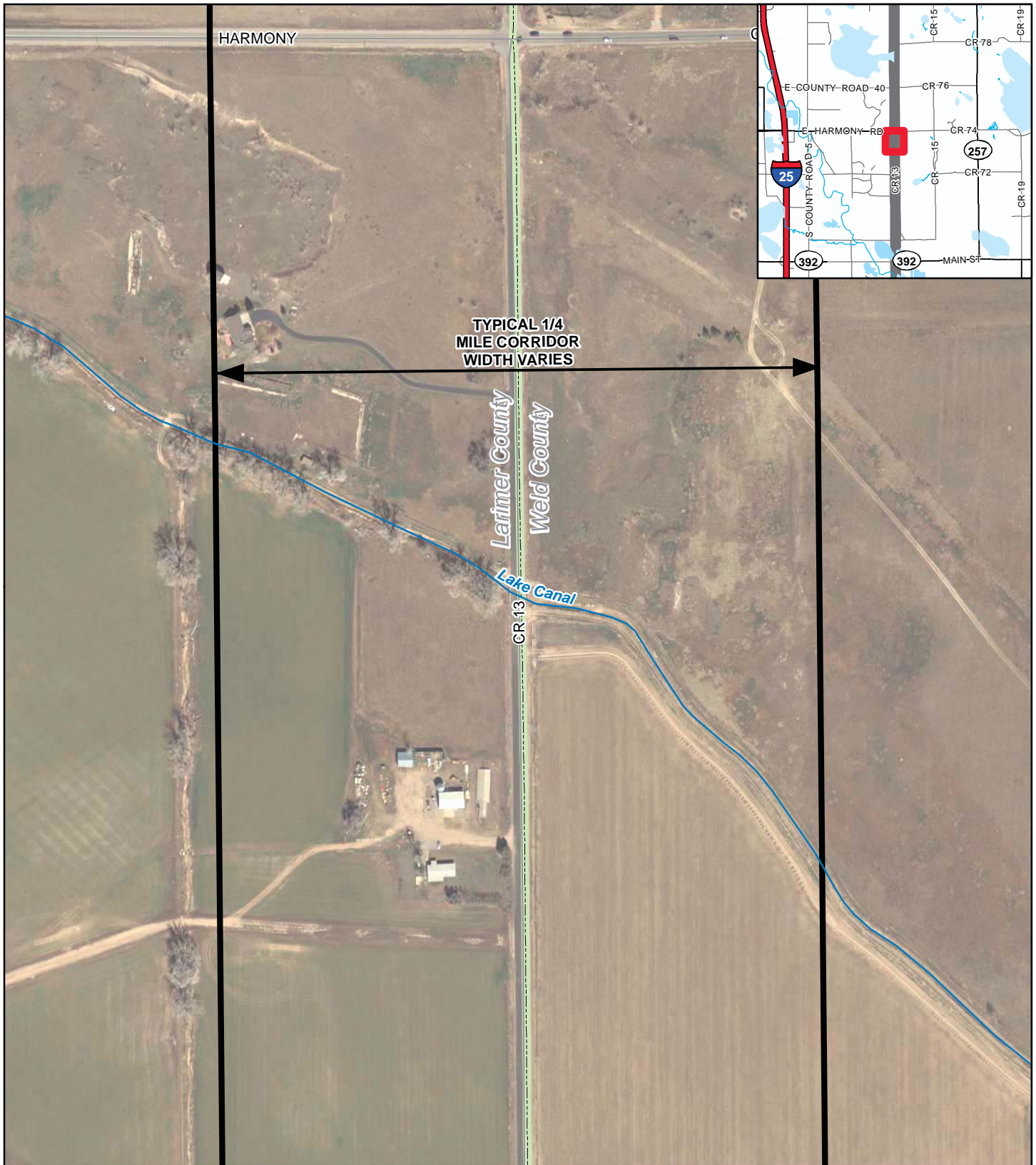


Figure 1

Thornton Water Project
 Lake Canal
 Lake Canal Reservoir Company
 Larimer and Weld Counties

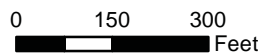
**CITY OF THORNTON
 COLORADO**

12450 WASHINGTON ST
 THORNTON, CO 80241-2405

12/6/2016



1 inch = 300 feet





Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Scott Hummer
North Poudre Irrigation Company
43910 Weld County Road 45
Ault, CO 80610

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Hummer:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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John Himyak
Thornton Water Project Engineer

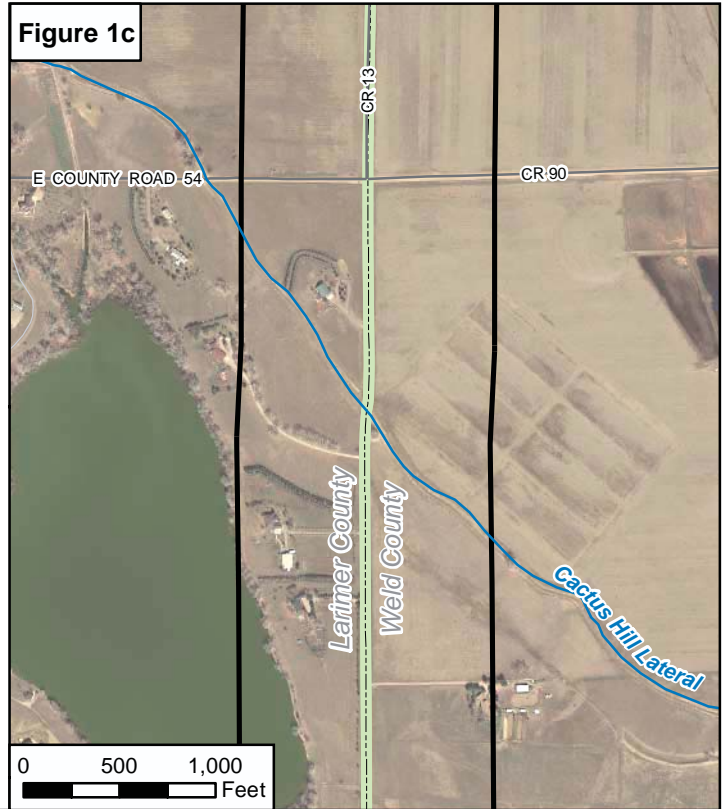
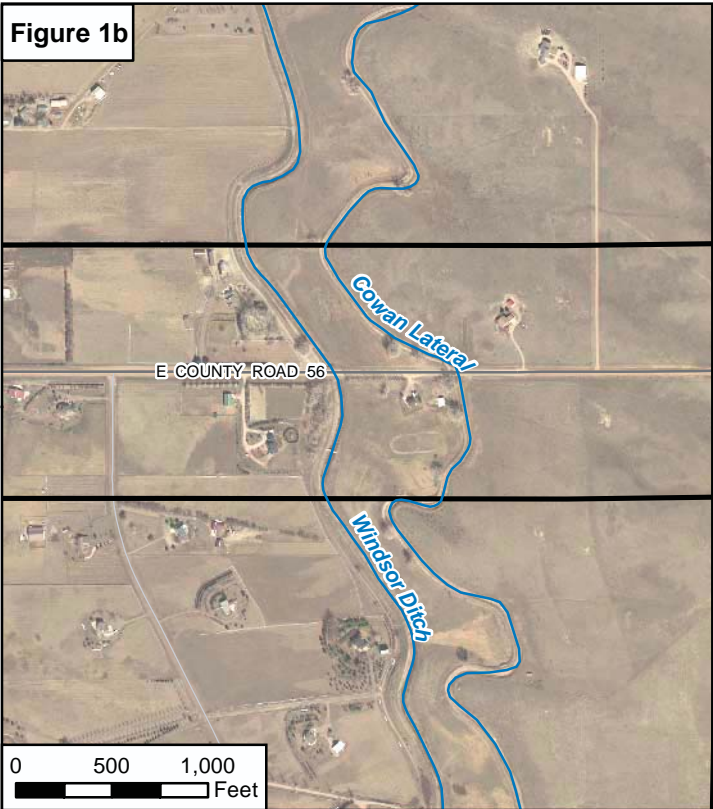
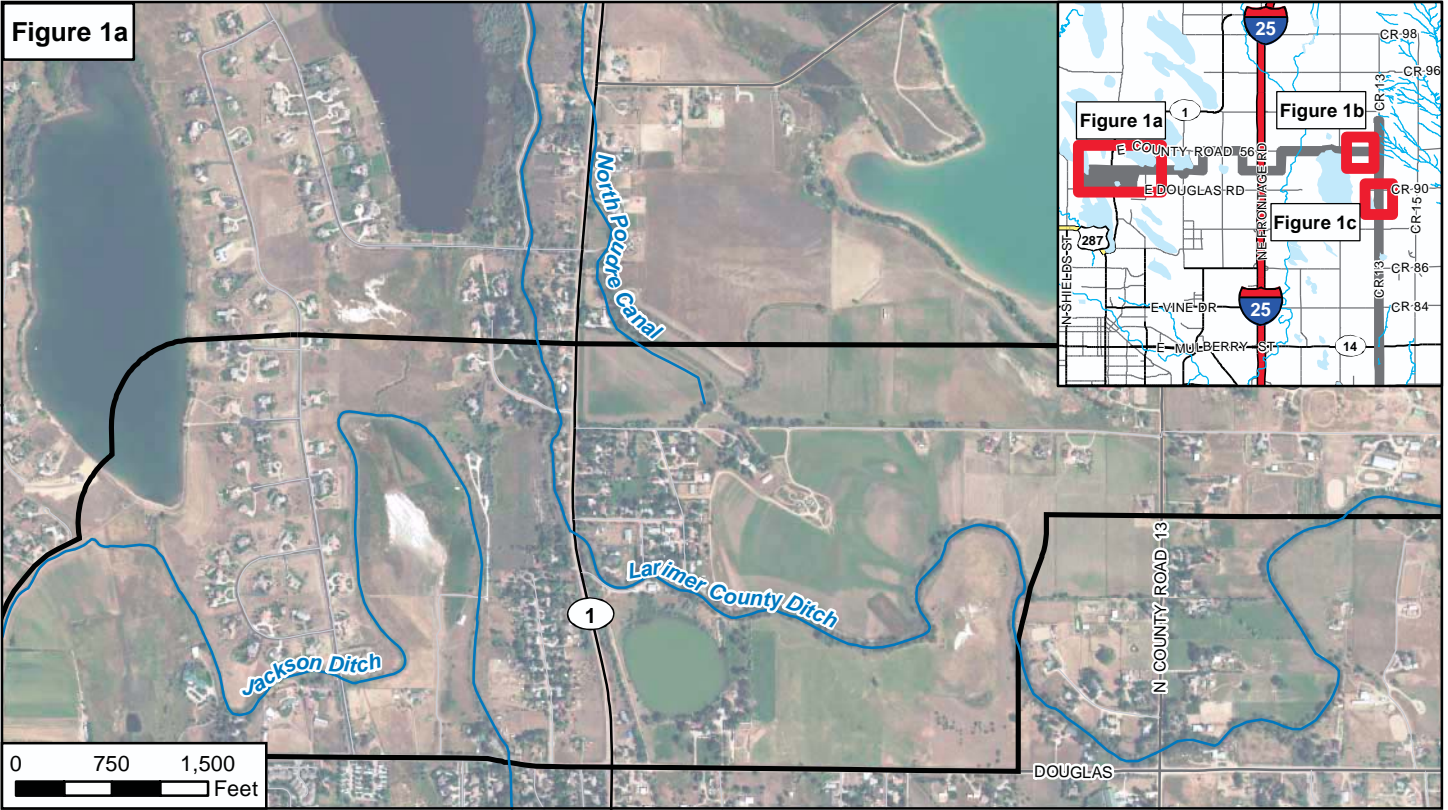


Figure 1
Thornton Water Project
 Cactus Hill Lateral, Cowan Lateral,
 and North Poudre Canal
 North Poudre Irrigation Company
 Larimer and Weld Counties



CITY OF THORNTON
COLORADO
 12450 WASHINGTON ST
 THORNTON, CO 80241-2405



12/6/2016



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Bill Johnston
Windsor Reservoir and Canal Company
PO Box 206
Eaton, CO 80613

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Johnston:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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Respectfully,

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John Himyak
Thornton Water Project Engineer

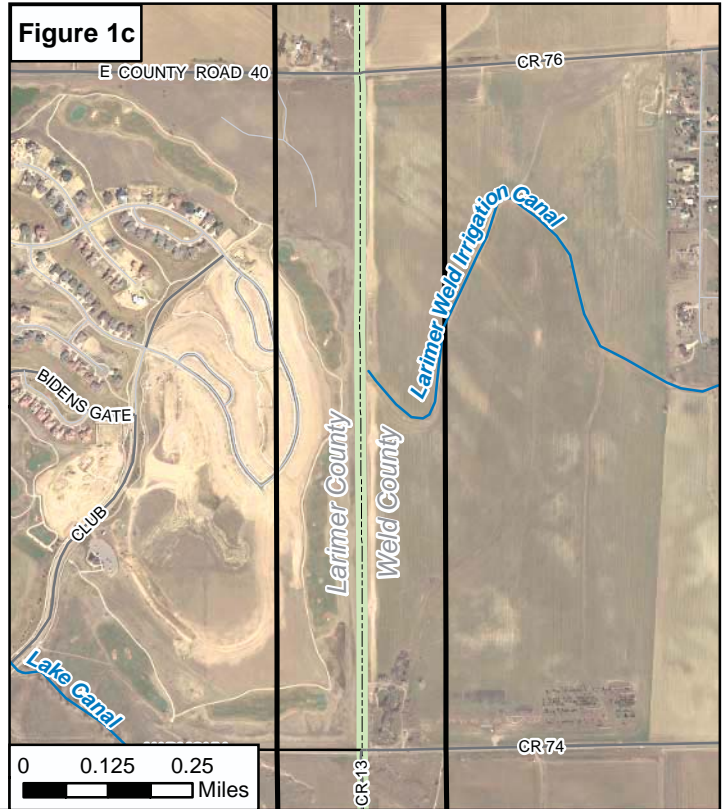
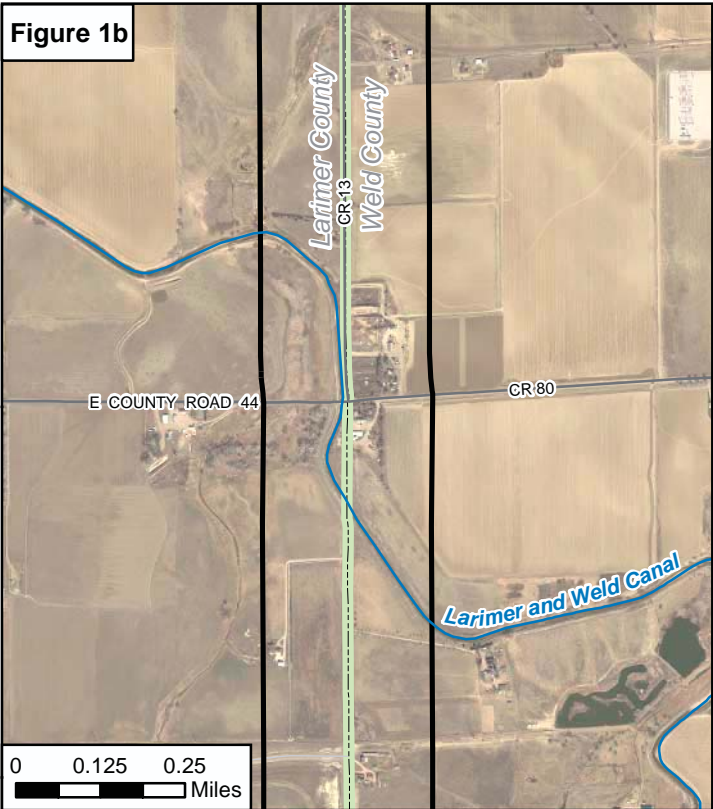
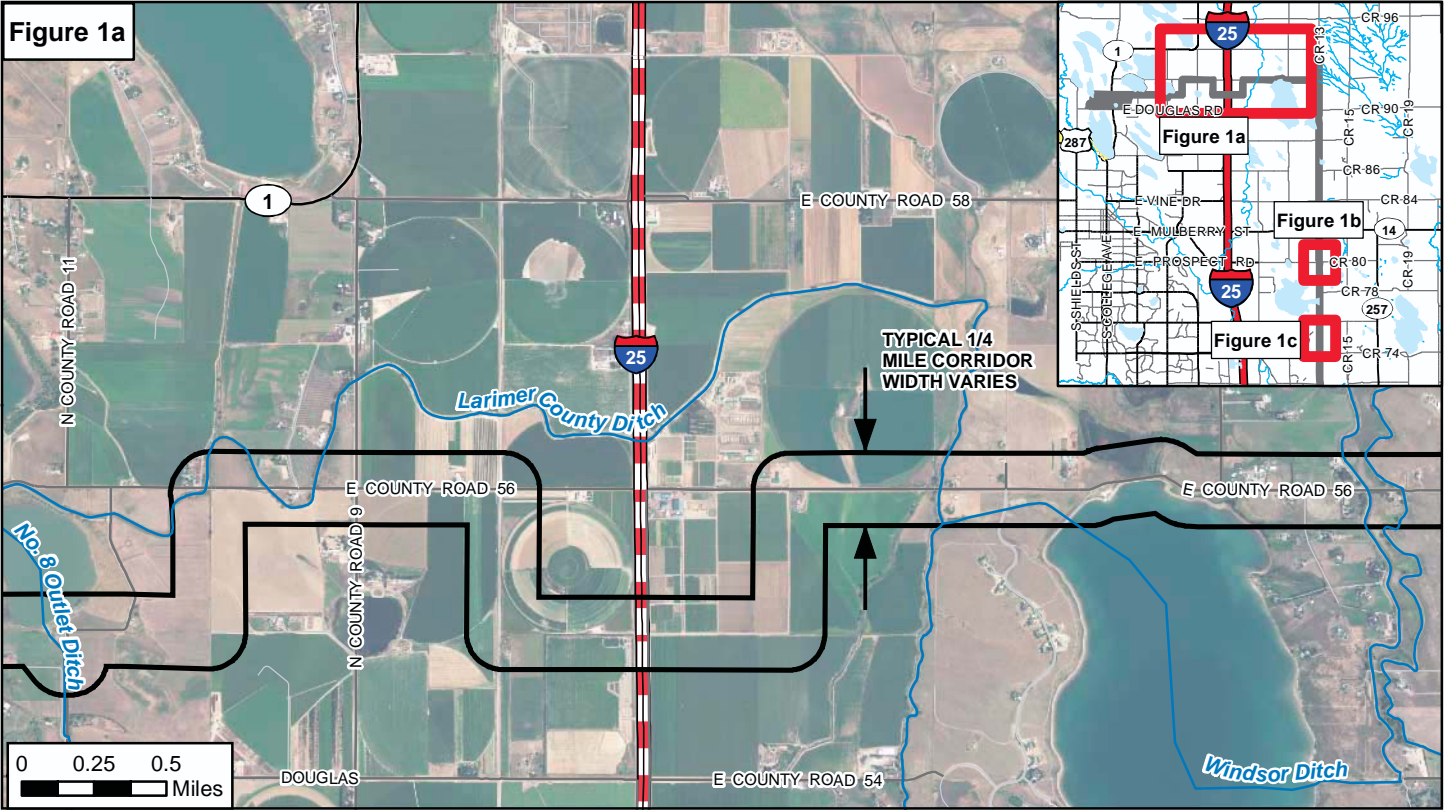


Figure 1

Thornton Water Project

Windsor Ditch, Larimer and Weld Canal, No. 8 Outlet Ditch
 Windsor Reservoir and Canal Company
 Larimer and Weld Counties

**CITY OF THORNTON
 COLORADO**

12450 WASHINGTON ST
 THORNTON, CO 80241-2405





Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Dennis Harmon
Water Supply and Storage Company
2319 E Mulberry St
Fort Collins, CO 80524

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Harmon:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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Respectfully,


John Himyak
Thornton Water Project Engineer

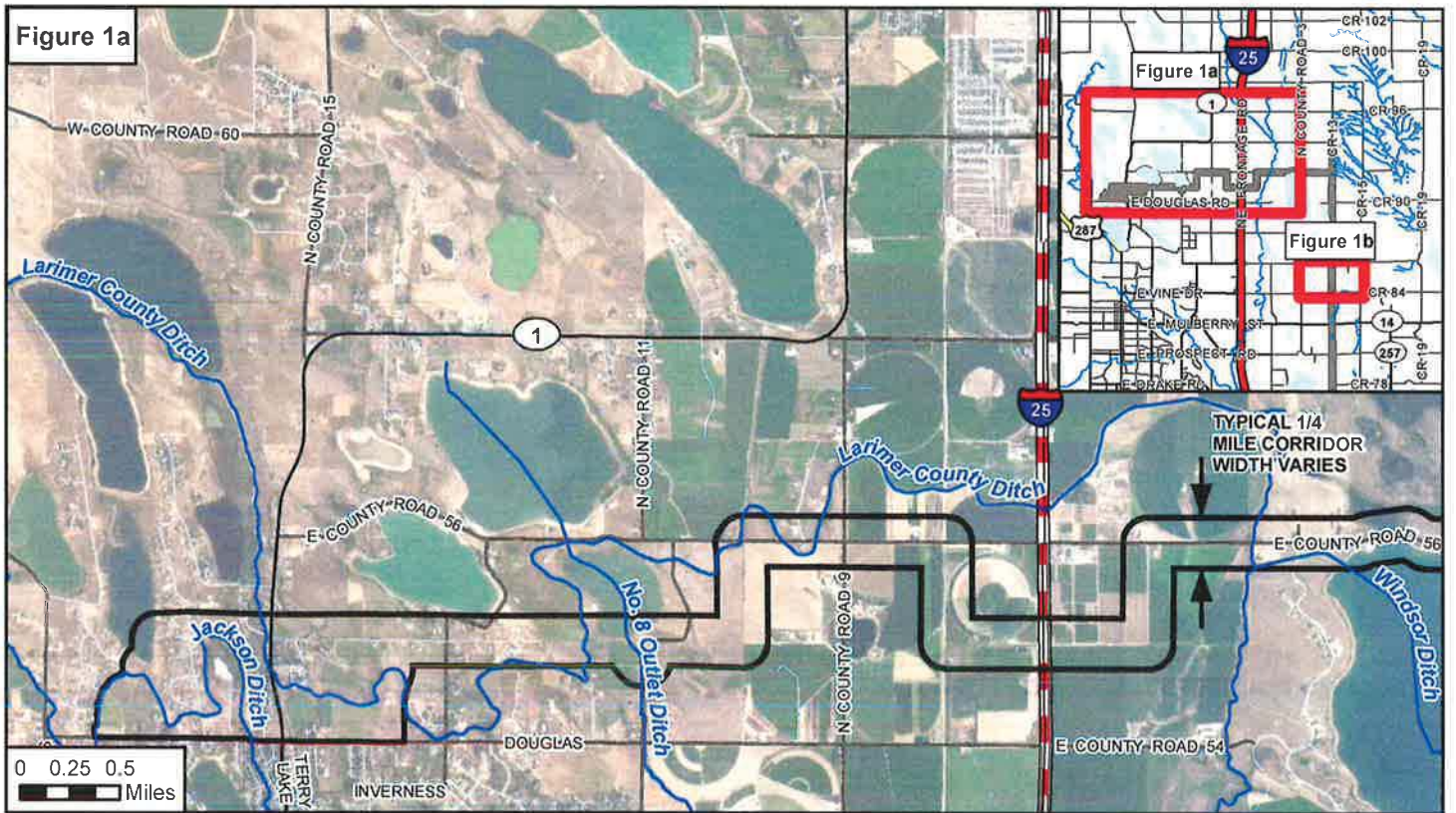


Figure 1

Thornton Water Project

Jackson Ditch and Larimer County Ditch and Canal
 Water Supply and Storage Company
 Larimer and Weld Counties

CITY OF THORNTON
 COLORADO

12450 WASHINGTON ST
 THORNTON, CO 80241-2405



12/6/2016



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12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Gary Howard
Big Dry Creek Ditch and Reservoir Company
2528 Weld County Road 19
Fort Lupton, CO 80621

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Howard:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

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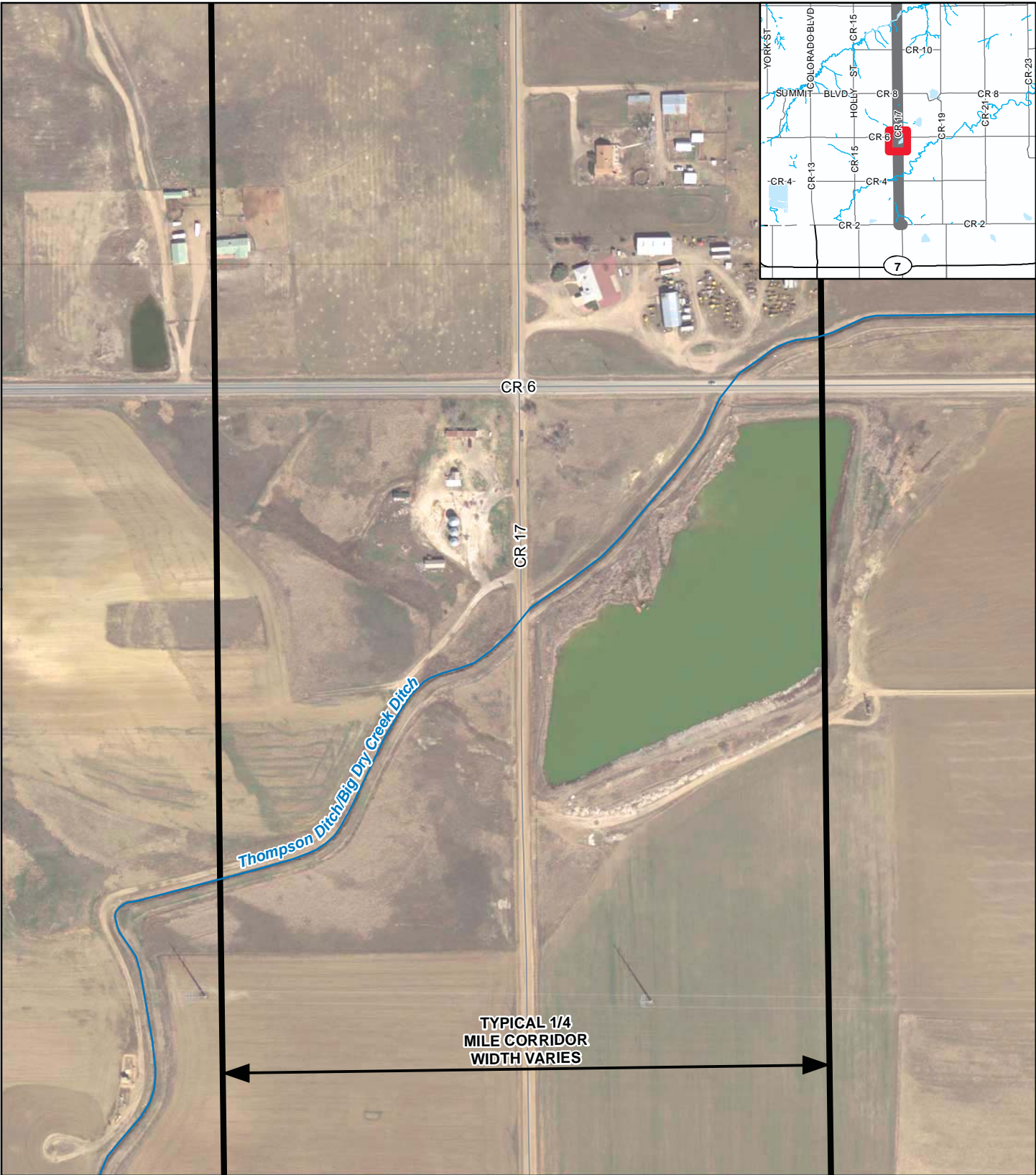
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Respectfully,

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John Himyak
Thornton Water Project Engineer



**CITY OF THORNTON
COLORADO**

12450 WASHINGTON ST
THORNTON, CO 80241-2405

12/6/2016



1 inch = 300 feet

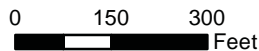


Figure 1
Thornton Water Project
Thompson Ditch/Big Dry Creek Ditch
Big Dry Creek Ditch and Reservoir Company
Weld County



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Scott Edgar
Farmers Reservoir and Irrigation Company (FRICO)
80 South 27th Avenue
Brighton, CO 80601

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Edgar:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is currently developing land use permits for the Project, and no definitive design has been completed to date. Thornton has identified a preferred corridor for the pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with facility operators to build our awareness of existing, planned improvements or future facilities, and to ensure that agency questions are addressed.

The attached Figure 1 shows locations that we have identified where the Project corridor crosses your facilities. The overall Project corridor map (Figure 2) is also included in the event that there are other facilities that you own that we may have missed. Please review the attached figures, so that we can begin to coordinate facility crossings within the corridor that will support the development of a pipeline alignment.

Thornton is requesting the following information:

- Information on existing or planned irrigation facilities within the corridor.
- A copy or example of a typical facility crossing/encroachment agreement.
- If applicable, a copy of a crossing application or other process and estimated timing.
- General design and construction requirements.
- General information about existing infrastructure within the Project corridor.

Thank you and for questions, to coordinate a meeting, or to transfer the requested information, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

A handwritten signature in black ink, appearing to read "John Himyak".

John Himyak
Thornton Water Project Engineer

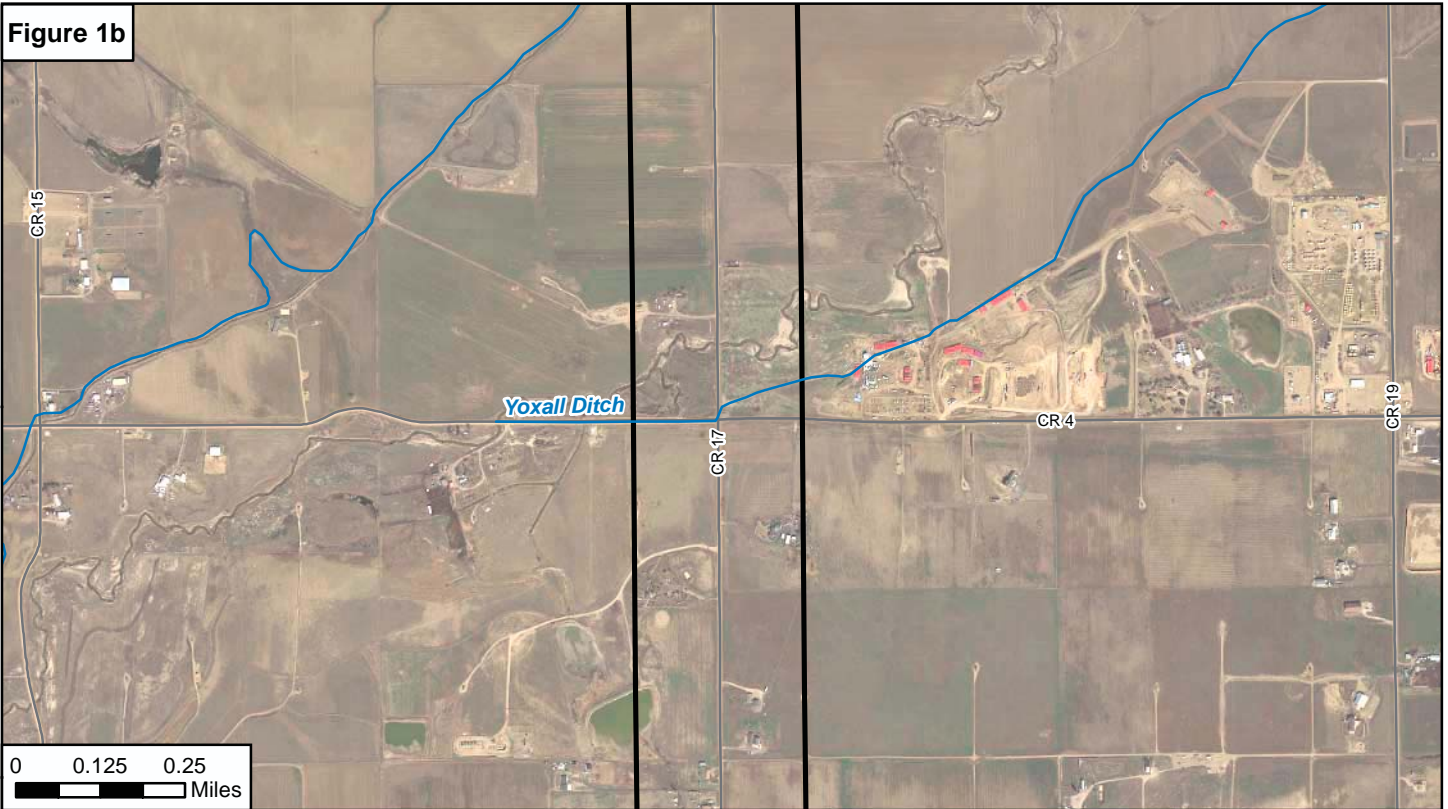
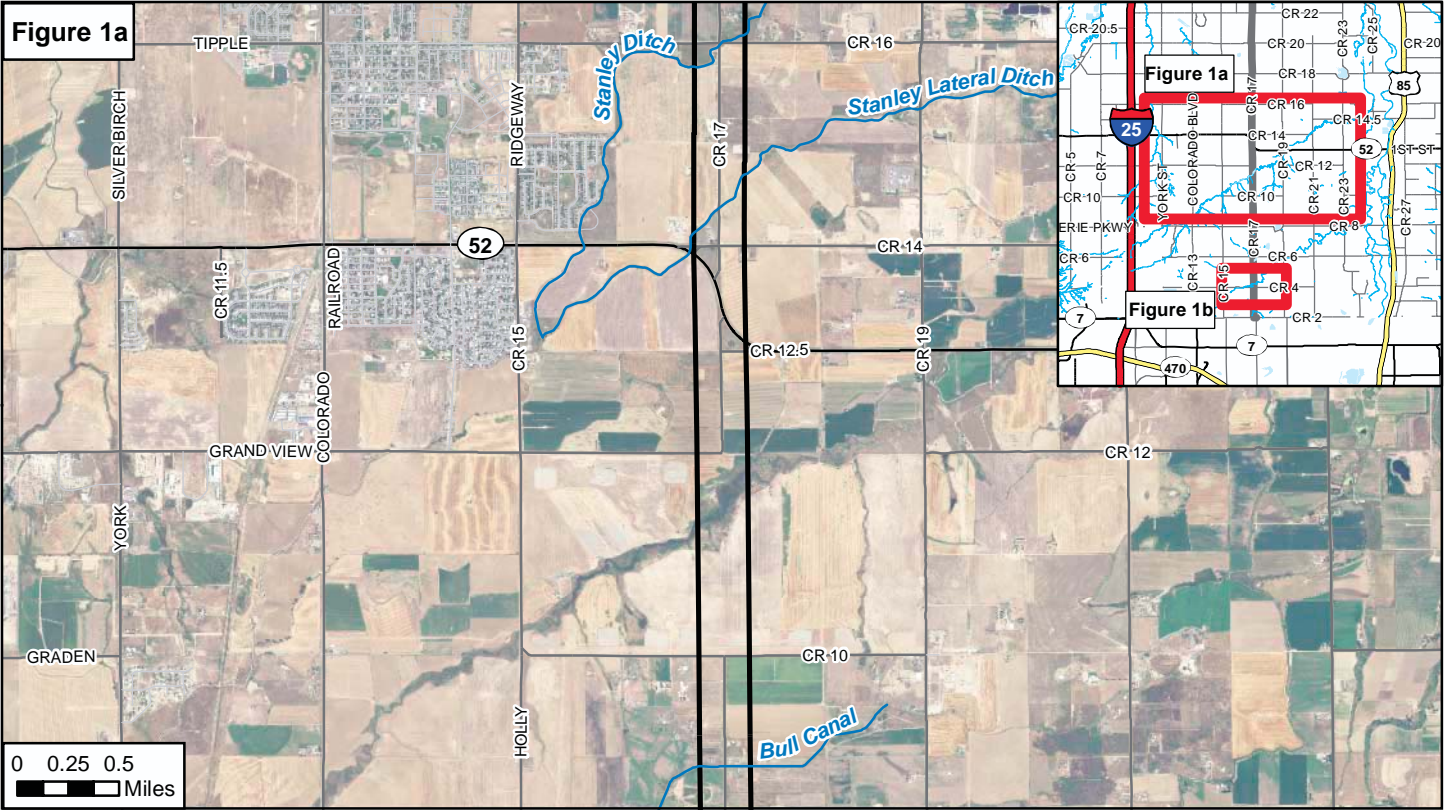


Figure 1

Thornton Water Project

Stanley Ditch, Stanley Later Ditch, Bull Canal
and Yoxall Ditch
Farmers Reservoir and Irrigation Company (FRICO)
Weld County

**CITY OF THORNTON
COLORADO**

12450 WASHINGTON ST
THORNTON, CO 80241-2405



12/8/2016



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Ken Markham
Home Supply Ditch and Reservoir Company
2464 Weld County Road 46
Berthoud, CO 80513

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Markham:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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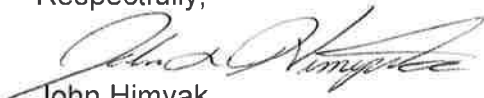
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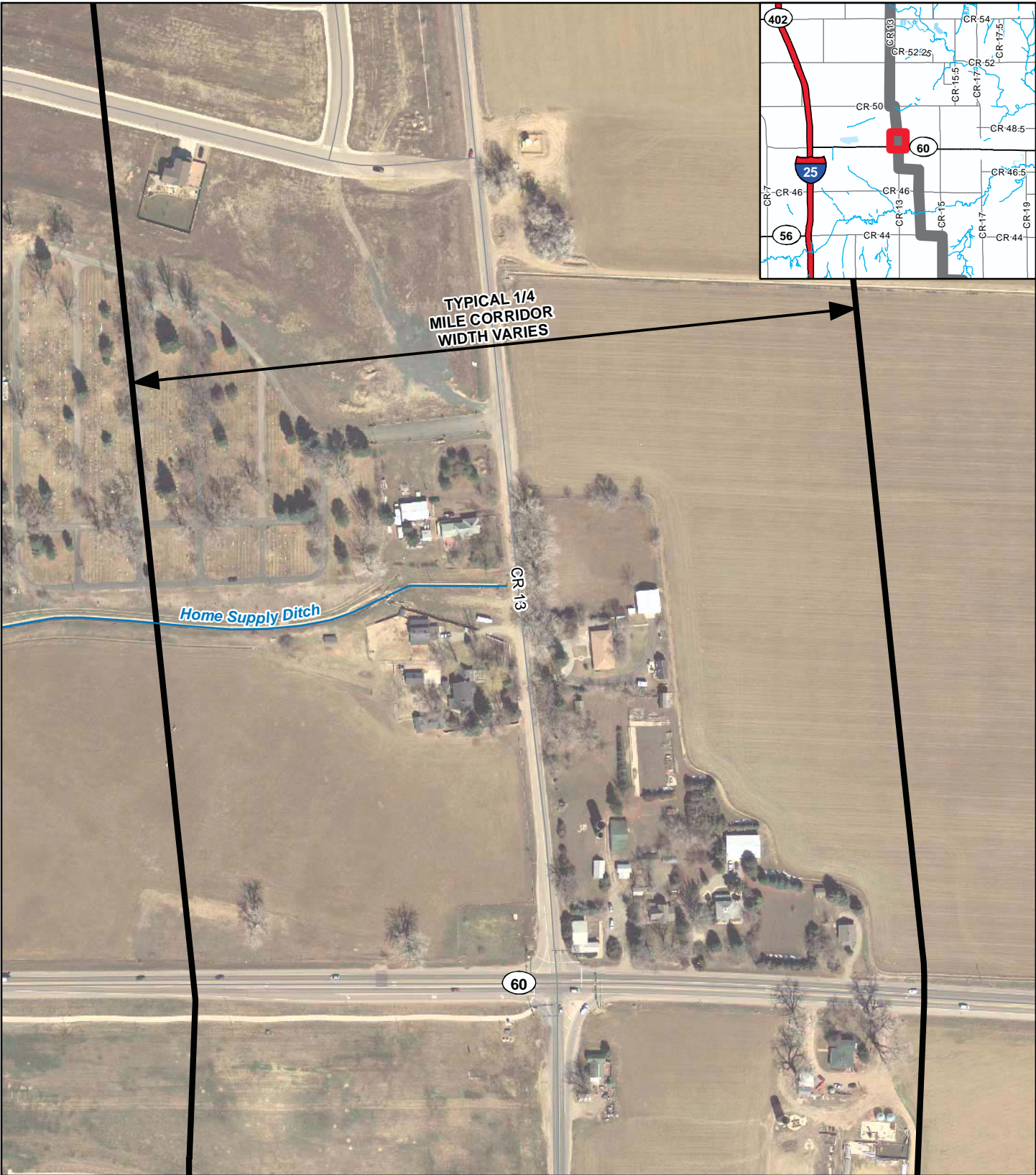
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- General information about existing infrastructure within the Project corridor.

Thank you and for questions, to coordinate a meeting, or to transfer the requested information, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,


John Himyak
Thornton Water Project Engineer



TYPICAL 1/4
MILE CORRIDOR
WIDTH VARIES

Home Supply Ditch

CR 13

60



CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405

12/6/2016

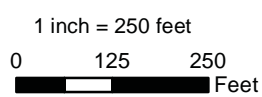


Figure 1
Thornton Water Project
Home Supply Ditch
Home Supply Ditch and Reservoir Company
Weld County



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Garrett Varra
Last Chance Ditch and Reservoir Company
11955 Weld County Rd. 15
Longmont, CO 80504

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Varra:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is currently developing land use permits for the Project, and no definitive design has been completed to date. Thornton has identified a preferred corridor for the pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

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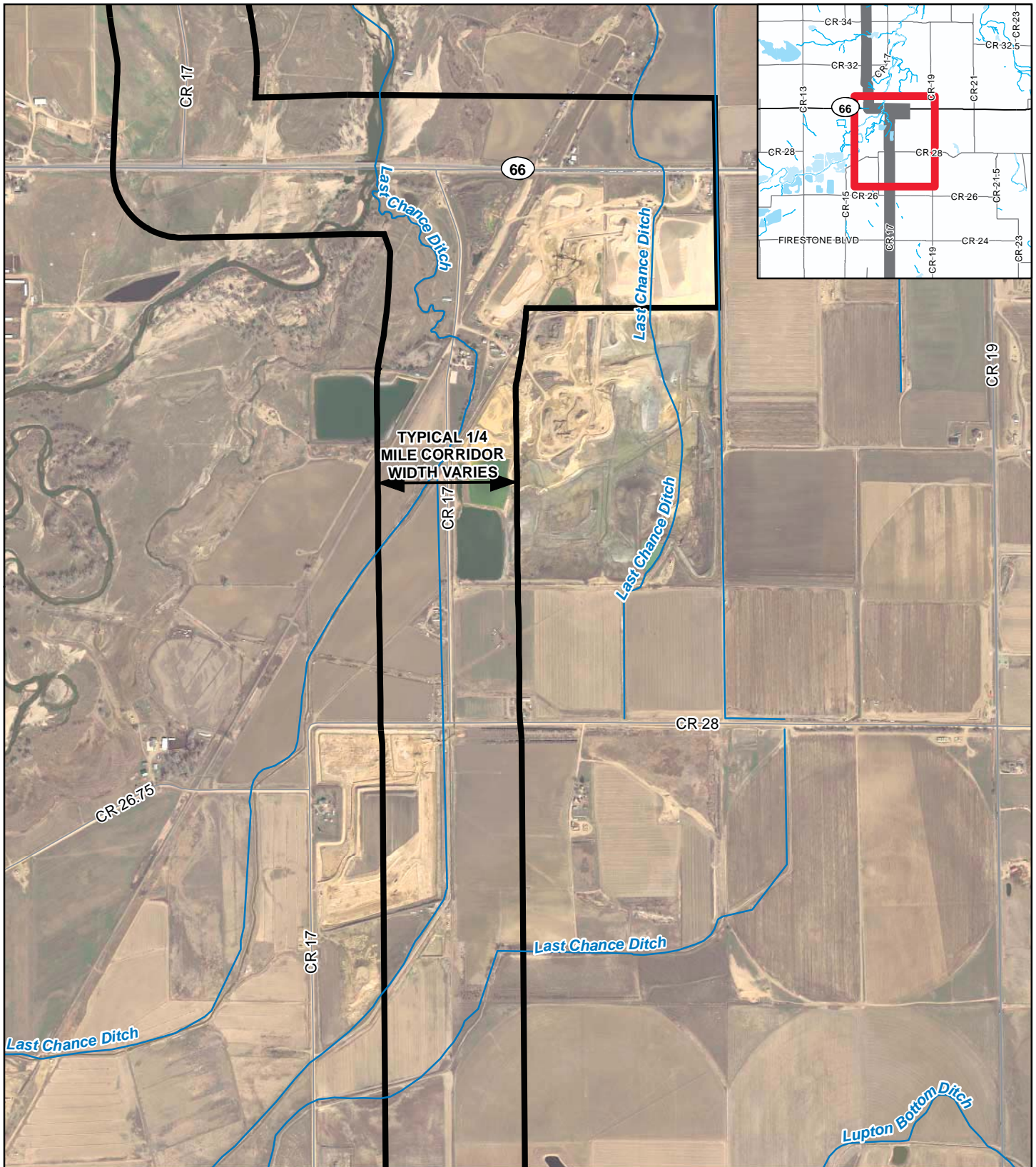
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Respectfully,

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John Himyak
Thornton Water Project Engineer



TYPICAL 1/4
MILE CORRIDOR
WIDTH VARIES

Figure 1

Thornton Water Project

Last Chance Ditch
Last Chance Ditch and Reservoir Company
Weld County



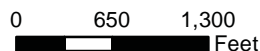
CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405

12/6/2016



1 inch = 1,300 feet





Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Howard Cantrell
Lupton Bottom Ditch Company
11016 Weld County Rd 23
Fort Lupton, CO 80621

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Cantrell:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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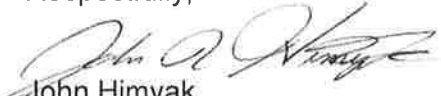
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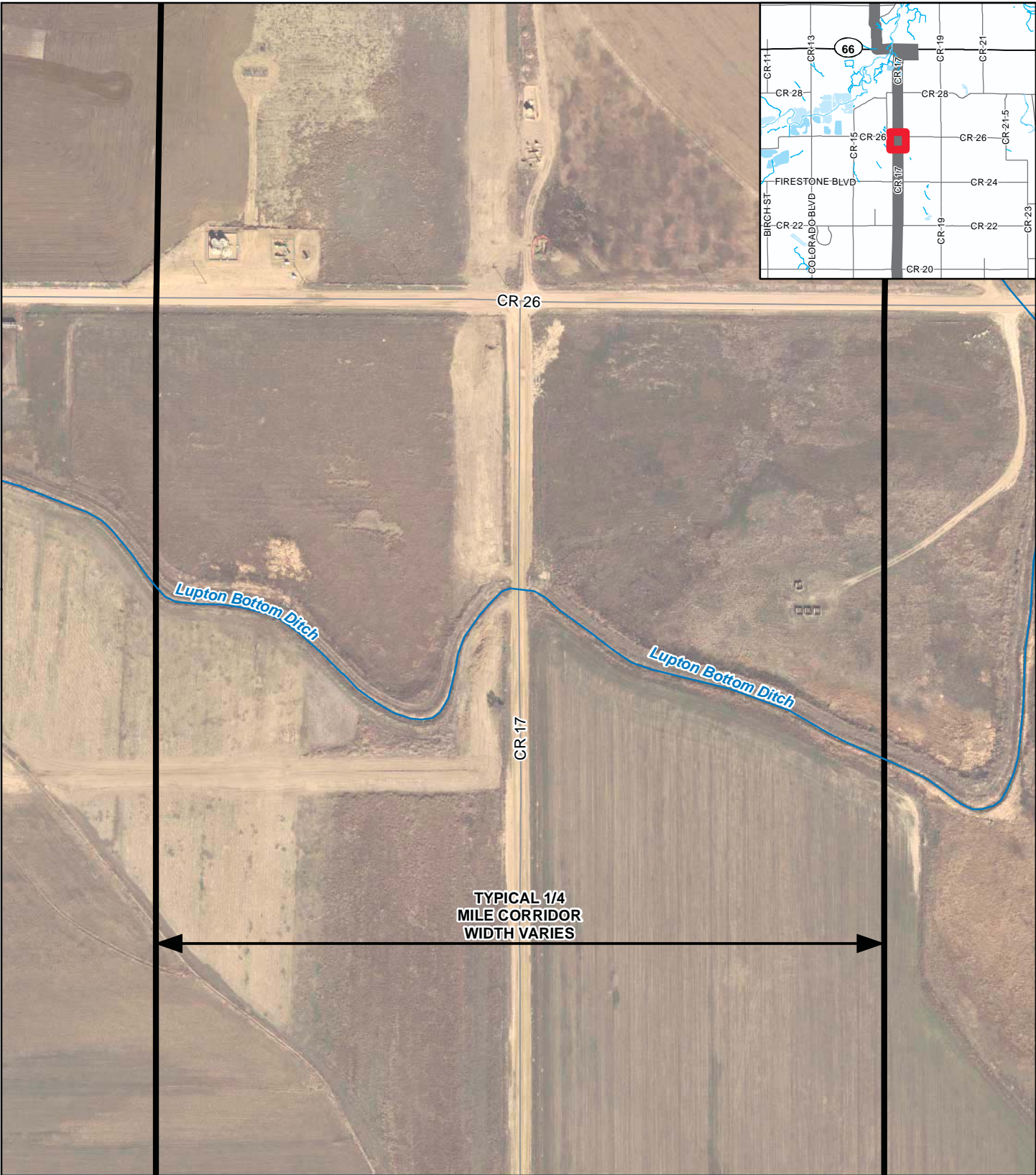
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Respectfully,


John Himyak
Thornton Water Project Engineer



TYPICAL 1/4
MILE CORRIDOR
WIDTH VARIES



CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405

12/6/2016

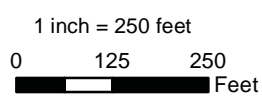


Figure 1
Thornton Water Project
Lupton Bottom Ditch
Lupton Bottom Ditch Company
Weld County



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. Alfred Sater
New Coal Ridge Ditch Company
10879 Co Rd 17
Longmont, CO 80504

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. Sater:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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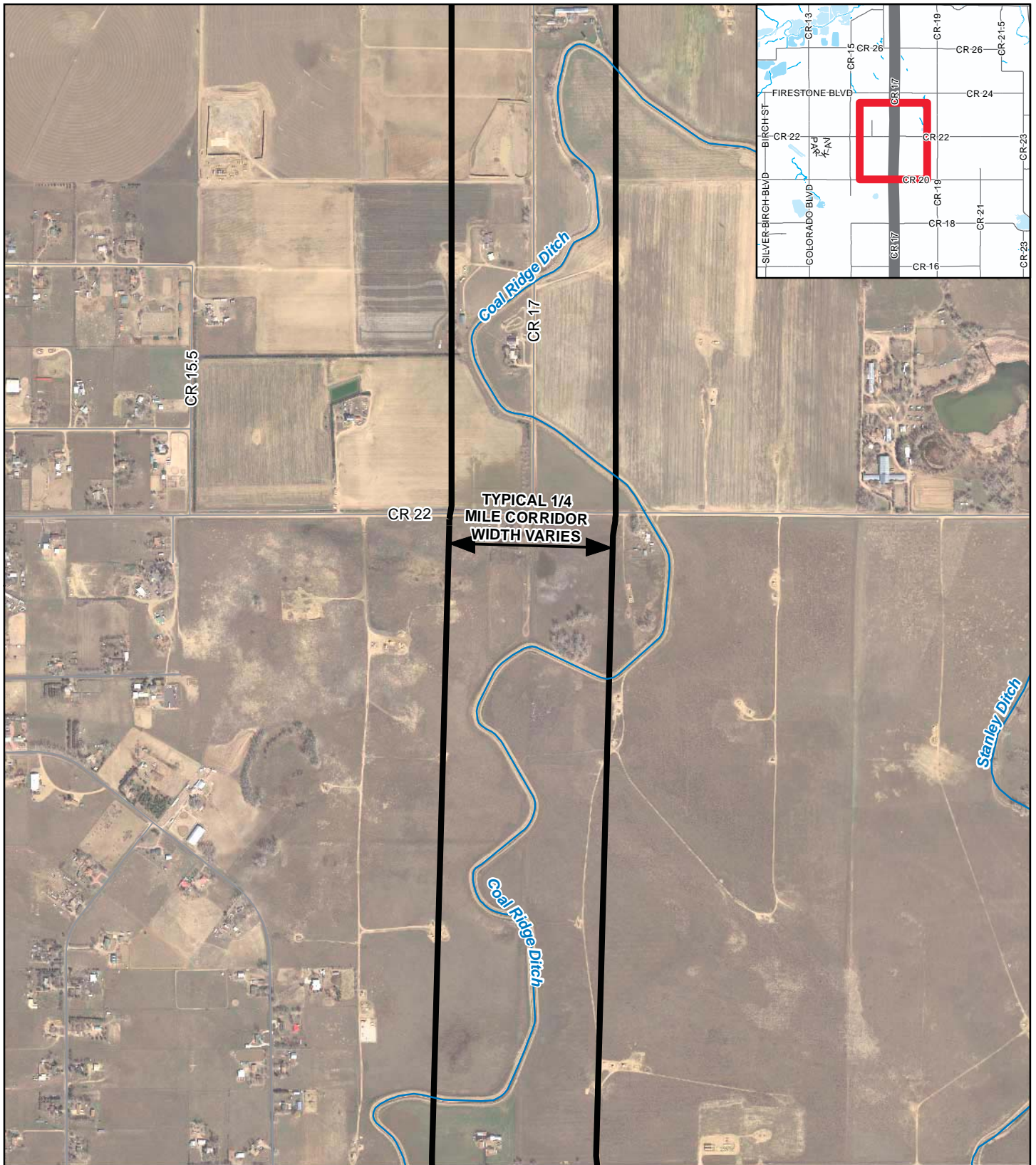
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Respectfully,

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John Himyak
Thornton Water Project Engineer



CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405

12/6/2016



1 inch = 1,100 feet

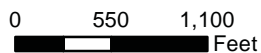


Figure 1
Thornton Water Project
Coal Ridge Ditch
New Coal Ridge Ditch Company
Weld County



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Ms. Joyce Klein
A & H Farms
1014 N 3rd St
Johnstown, CO 80534

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Ms. Klein:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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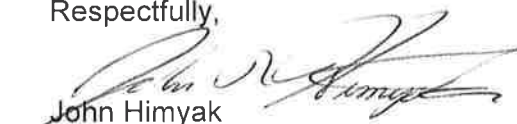
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John Himyak
Thornton Water Project Engineer

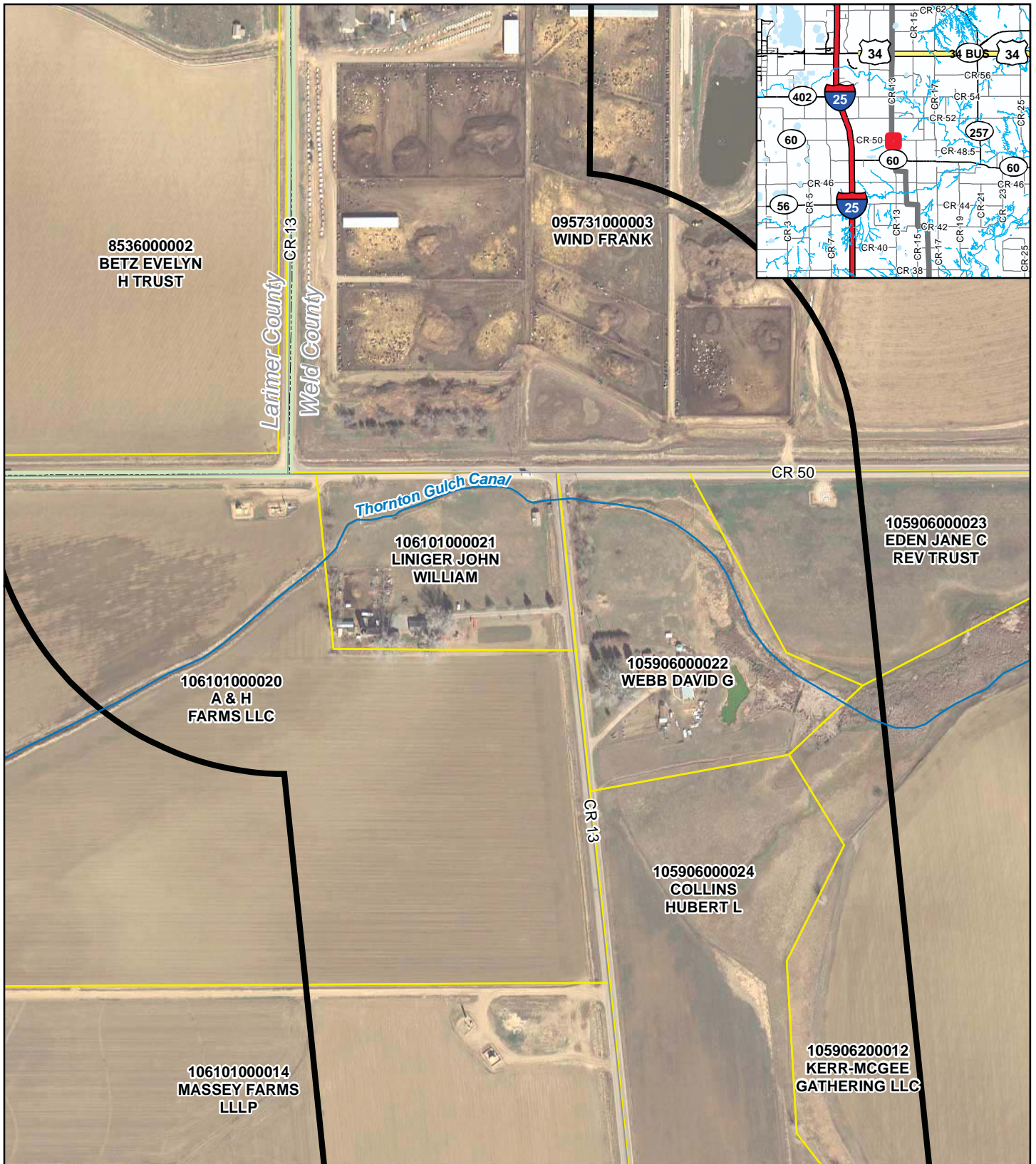


Figure 1
Thornton Water Project
Thornton Gulch Canal
John and Linda Liniger and A & H Farms
Weld County



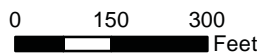
**CITY OF THORNTON
COLORADO**

12450 WASHINGTON ST
THORNTON, CO 80241-2405

12/9/2016



1 inch = 300 feet





Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 13, 2016

Mr. and Mrs. John and Janet Liniger
23927 Weld County Road 13
Johnstown, CO 80534

RE: Thornton Water Project/Irrigation Ditch Facility Coordination Request

Dear Mr. and Mrs. Liniger:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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Respectfully,

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John Himyak
Thornton Water Project Engineer

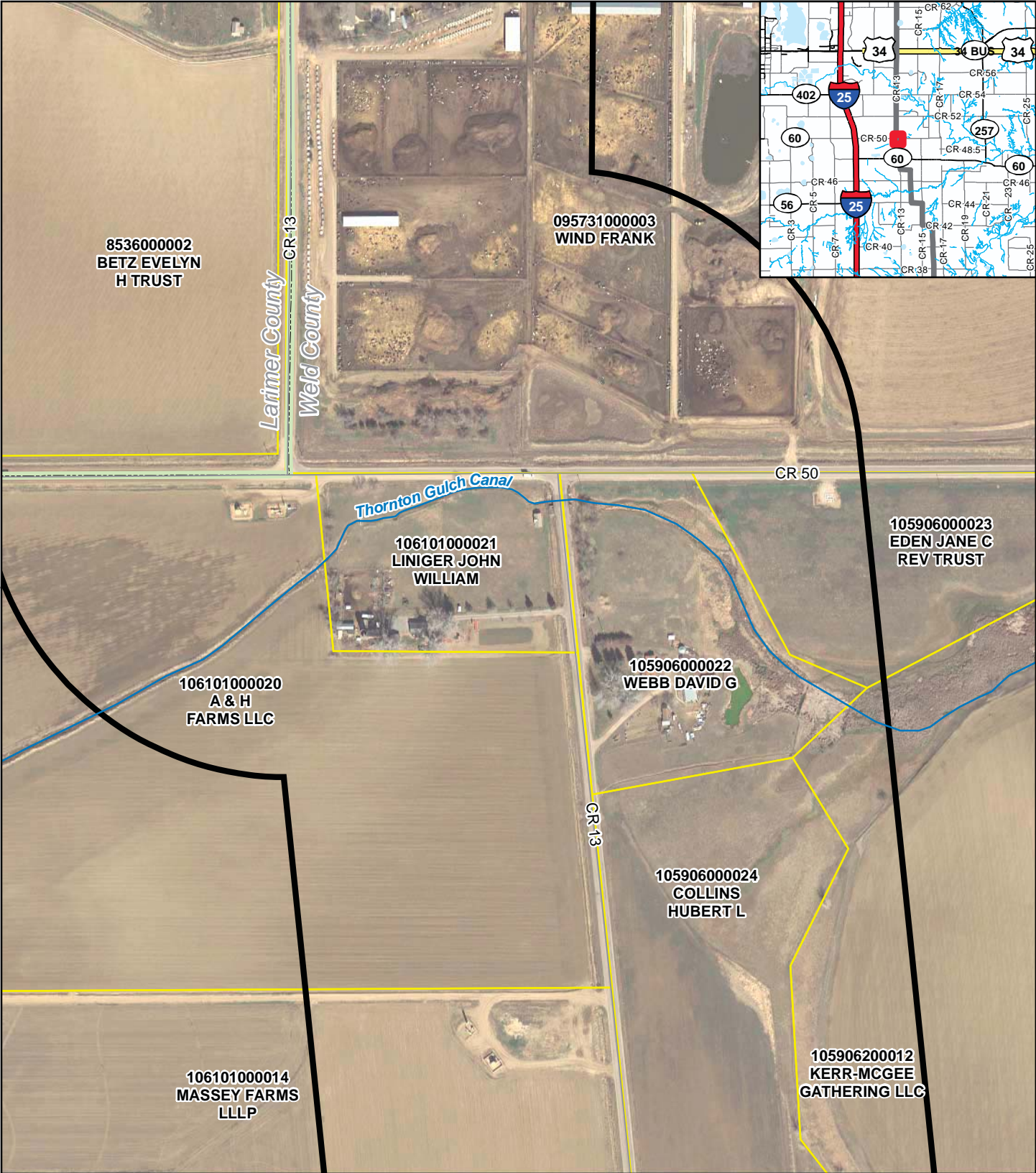


Figure 1
Thornton Water Project
Thornton Gulch Canal
John and Linda Liniger and A & H Farms
Weld County



CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405

12/9/2016



1 inch = 300 feet
0 150 300 Feet

Utility Providers

From:

█

[REDACTED]

Cc: █
Subject: Energy Industry Working Group Outreach Thornton [EXTERNAL]
Date: Thursday, January 05, 2017 1:45:40 PM
Attachments: [Utility Outreach Figure 1.pdf](#)

Hi All,

I hope everyone had a great holiday season! The City of Thornton folks who attended our meeting last month asked that I forward the following message on to you all. Have a great day, stay warm out there!

Janet Lundquist
Support Services Manager
Weld County Public Works Dept.
P.O. Box 758, Greeley, CO 80632
Tele-970.356.4000 ext 3726
Fax- 970.304.6497



Confidentiality Notice: This electronic transmission and any attached documents or other writings are intended only for the person or entity to which it is addressed and may contain information that is privileged, confidential or otherwise protected from disclosure. If you have received this communication in error, please immediately notify sender by return e-mail and destroy the communication. Any disclosure, copying, distribution or the taking of any action concerning the contents of this communication or any attachments by anyone other than the named recipient is strictly prohibited.

From: John Himyak [mailto:John.Himyak@cityofthornton.net]
Sent: Wednesday, January 04, 2017 3:13 PM
To: Janet Lundquist
Cc: Mark Koleber; jody.henry@ch2m.com
Subject: FW: WC Energy Industry Working Group Outreach

Weld County Energy Industry Working Group,

Thank you for the opportunity to participate in your December 15, 2016 meeting.

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include; 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is currently developing land use permits for the Project, and no definitive design has been completed to date. Thornton has identified a preferred corridor for the pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Thornton is very open to meeting with facility operators to build our awareness of existing and planned improvements or future facilities, and to coordinate the pipeline location within the preferred corridor.

Please review the attached corridor map with respect to your operations so that we can begin to coordinate a pipeline alignment within the corridor.

Thornton is requesting the following information:

- Information on existing and planned facilities or easements within the corridor.
- Copies or examples of typical facility crossing/encroachment agreements.
- Other pertinent information.

For questions, or to coordinate a meeting or transfer the requested information, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Thornton's Project Website:

www.thorntonwaterproject.com

Respectfully,

John Himyak

Thornton Water Project Engineer

Figure 1 - TWP Corridor accompanies each utility company stakeholder letter

Thornton Water Project

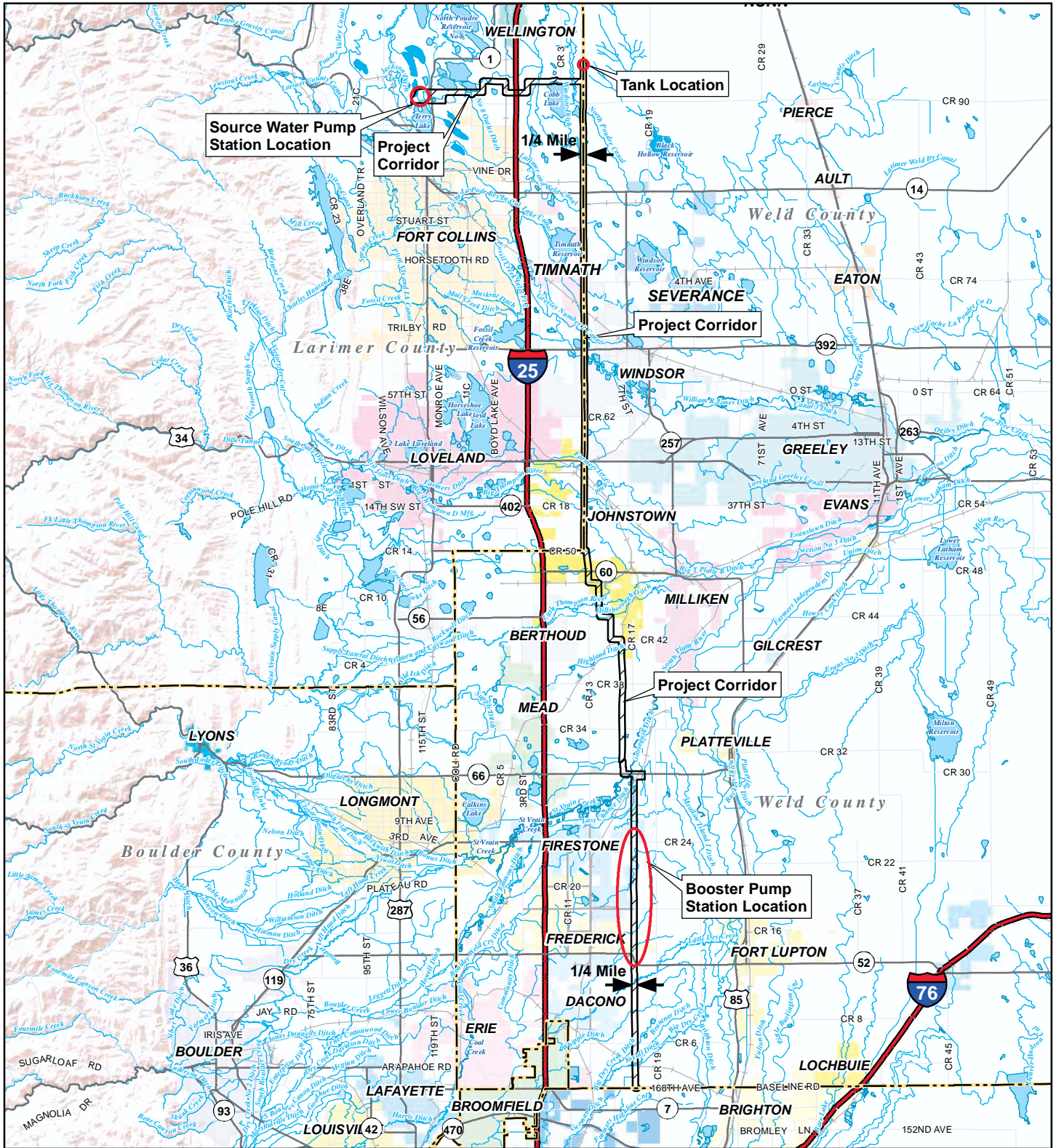


Figure 1
Thornton Water Project Corridor

- Railroad
- County Boundary
- Lake/Reservoir
- River/Stream/Canal/Ditch

CITY OF THORNTON
COLORADO
12450 WASHINGTON ST
THORNTON, CO 80241-2405



1 inch = 6.25 miles
0 1.5 3 6 Miles

12/5/2016



City of Thornton

Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

February 14, 2017

Burt Knight
City of Greeley
1100 10th St., Ste 300
Greeley, CO 80631

RE: Thornton Water Project /Utility Coordination Request

Dear Burt:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include; 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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The Project corridor crosses multiple utility facilities. Please review the attached corridor map with respect to your utility, so that we can begin to coordinate facility crossings and development of a pipeline alignment within the corridor.

Thornton is requesting the following information:

- Information on existing and planned facilities within the corridor.
- Copies or examples of typical facility crossing/encroachment agreements.
- General information, construction requirements, and estimated process time.

In addition, Thornton is open to exploring possibilities of shared easements within the Project corridor, either with existing or future planned utility improvements.

Thank you and for questions, to coordinate a meeting or transfer the requested information, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

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John Himyak
Thornton Water Project Engineer



City of Thornton

Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

February 14, 2017

Mr. Ian Weptland
AT&T
5225 Zuni St.
Denver, CO 80221

RE: Thornton Water Project /Utility Coordination Request

Dear Mr. Weptland:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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Thank you and for questions, to coordinate a meeting or transfer the requested information, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,



John Himyak
Thornton Water Project Engineer



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 16, 2016

Mr. Noah Allison
Boxelder Sanitation
3201 East Mulberry
Fort Collins, CO 80524

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Allison:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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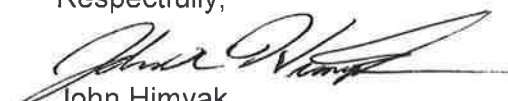
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December 16, 2016

Mr. Stan Linker
Central Weld County Water District
2235 2nd Avenue
Greeley, CO 80631

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Linker:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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December 16, 2016

Ms. Linda Blackstone
Century Link
700 W. Mineral
Littleton, CO 80120

RE: Thornton Water Project/Utility Coordination Request

Dear Ms. Blackstone:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

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December 16, 2016

Mr. David Sprout
Comcast
8000 E. Iliff Ave
Denver, CO 80231

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Sprout:

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December 16, 2016

Mr. Mike Scheid
Elco Water
232 S. Link Lane
Fort Collins, CO 80524

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Scheid:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

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Thornton Water Project Engineer



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December 16, 2016

Mr. Terry Farrill
Fort Collins Loveland Water District/South Fort Collins Sanitation
5150 Snead Drive
Fort Collins, CO 80525

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Farrill:

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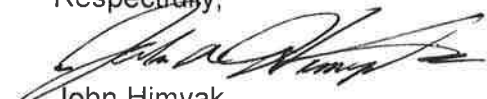
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December 16, 2016

Mr. Eric Ryplewski
Hilltop-Broadband
PO Box 1770
Berthoud, CO 80513

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Ryplewski:

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John Himyak
Thornton Water Project Engineer



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December 16, 2016

Mr. Darwin Williams
Left Hand Water District
6800 Nimbus Rd
Longmont, CO 80503

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Williams:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

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12450 Washington Street
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December 16, 2016

Mr. James Hibbard
Little Thompson Water District
835 E State Highway 56
Berthoud, CO 80513-9237

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Hibbard:

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December 16, 2016

Mr. Gary Allen
Longs Peak Water District
9875 Vermillion Road
Longmont, CO 80504

RE: Thornton Water Project/Utility Coordination Request

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December 16, 2016

Mr. Rich Patterson
Northern Colorado Water Association
4389 E Co Rd 70
Wellington, CO 80549

RE: Thornton Water Project/Utility Coordination Request

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December 16, 2016

Mr. Rick Pickard
North Weld County Water District
32825 CR 39
Lucerne, CO 80646

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Pickard:

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December 16, 2016

Mr. Matt Oregon
Poudre Valley REA
7649 Rea Pkwy
Fort Collins, CO 80528

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Oregon:

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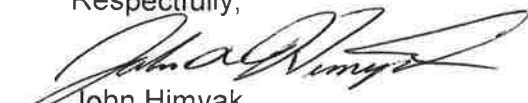
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December 16, 2016

Mr. Israel Jaramillo
Source Gas
5814 Ideal Drive
Frederick, CO 80516

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Jaramillo:

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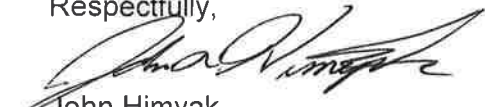
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In addition, Thornton is open to exploring possibilities of shared easements within the Project corridor, either with existing or future planned utility improvements.

Thank you and for questions, to coordinate a meeting or transfer the requested information, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,


John Himyak
Thornton Water Project Engineer



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 16, 2016

Ms. Megan Humbrecht
St Vrain Sanitation District
11307 Business Park Circle
Firestone, CO 80504

RE: Thornton Water Project/Utility Coordination Request

Dear Ms. Humbrecht:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is currently developing land use permits for the Project, and no definitive design has been completed to date. Thornton has identified a preferred corridor for the pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with facility operators to build our awareness of existing, planned improvements or future facilities, and to ensure that agency questions are addressed.

The Project corridor crosses multiple utility facilities. Please review the attached corridor map with respect to your utility, so that we can begin to coordinate facility crossings and development of a pipeline alignment within the corridor.

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Respectfully,

A handwritten signature in black ink, appearing to read "John Himyak", written over a light blue horizontal line.

John Himyak
Thornton Water Project Engineer



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720-977-6700
Fax: 720-977-6202

December 16, 2016

Mr. Itzia Romero
Sun Power
4921 N. Elizabeth St.
Pueblo, CO 81008

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Romero:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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John Himyak
Thornton Water Project Engineer



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720-977-6700
Fax: 720-977-6202

December 16, 2016

Mr. Branden Piper
TDS
525 Junction Road
Madison, WI 53717

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Piper:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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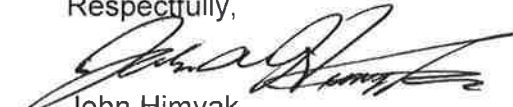
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John Himyak
Thornton Water Project Engineer



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720-977-6700
Fax: 720-977-6202

December 16, 2016

Mr. Jim Chavez
Todd Creek Village Metropolitan District
10450 E 159th Ct.
Brighton, CO 80602

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Chavez:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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John Himyak
Thornton Water Project Engineer



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720-977-6700
Fax: 720-977-6202

December 16, 2016

Mr. Steven Gray
Tri-State Generation and Transmission Association
1100 West 116th Avenue
Westminster, CO 80234

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Gray:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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Respectfully,



John Himyak
Thornton Water Project Engineer



City of Thornton

Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

January 3, 2017

Mr. Brad Wind
Northern Water
220 Water Ave.
Berthoud, CO 80513

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Wind:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

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Respectfully,



John Himyak
Thornton Water Project Engineer



City of Thornton

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720-977-6700
Fax: 720-977-6202

December 16, 2016

Mr. Eric Henson
United Power
500 Cooperative Way
Brighton, CO 80603

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Henson:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

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John Himyak
Thornton Water Project Engineer



City of Thornton

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720-977-6700
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December 16, 2016

Mr. Eric Weisbender
Western Area Power Administration
12155 W. Alameda Pkwy
Lakewood, CO 80228

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Weisbender:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

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Respectfully,



John Himyak
Thornton Water Project Engineer



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12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

December 16, 2016

Mr. Mike Diehl
Xcel Energy
1800 Larimer Street, Suite 400
Denver, CO 80202

RE: Thornton Water Project/Utility Coordination Request

Dear Mr. Diehl:

The city of Thornton (Thornton) is contacting stakeholders regarding the development of the Thornton Water Project (Project).

The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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Respectfully,

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John Himyak
Thornton Water Project Engineer

Railroad Companies



City of Thornton

Infrastructure Maintenance Center
12450 Washington Street
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Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

March 9, 2017

Mr. Michael Monsour
Great Western Railway of Colorado
950 Taylor Ave.
Loveland, CO 80537

RE: Thornton Water Project/Railroad Coordination Request

Dear Mr. Monsour:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.


Thornton is developing land use permit applications for the Project, and no specific route or alignment has been identified. Thornton has identified a preferred corridor for the pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with agencies to build our awareness of existing or planned improvements or facilities, and to ensure that agency questions are addressed. The purpose of this letter is to provide information to Great Western Railway of Colorado (GWR) prior to submission of major land use permit applications, so that we can address any concerns that GWR may have prior to review as a referral agency.

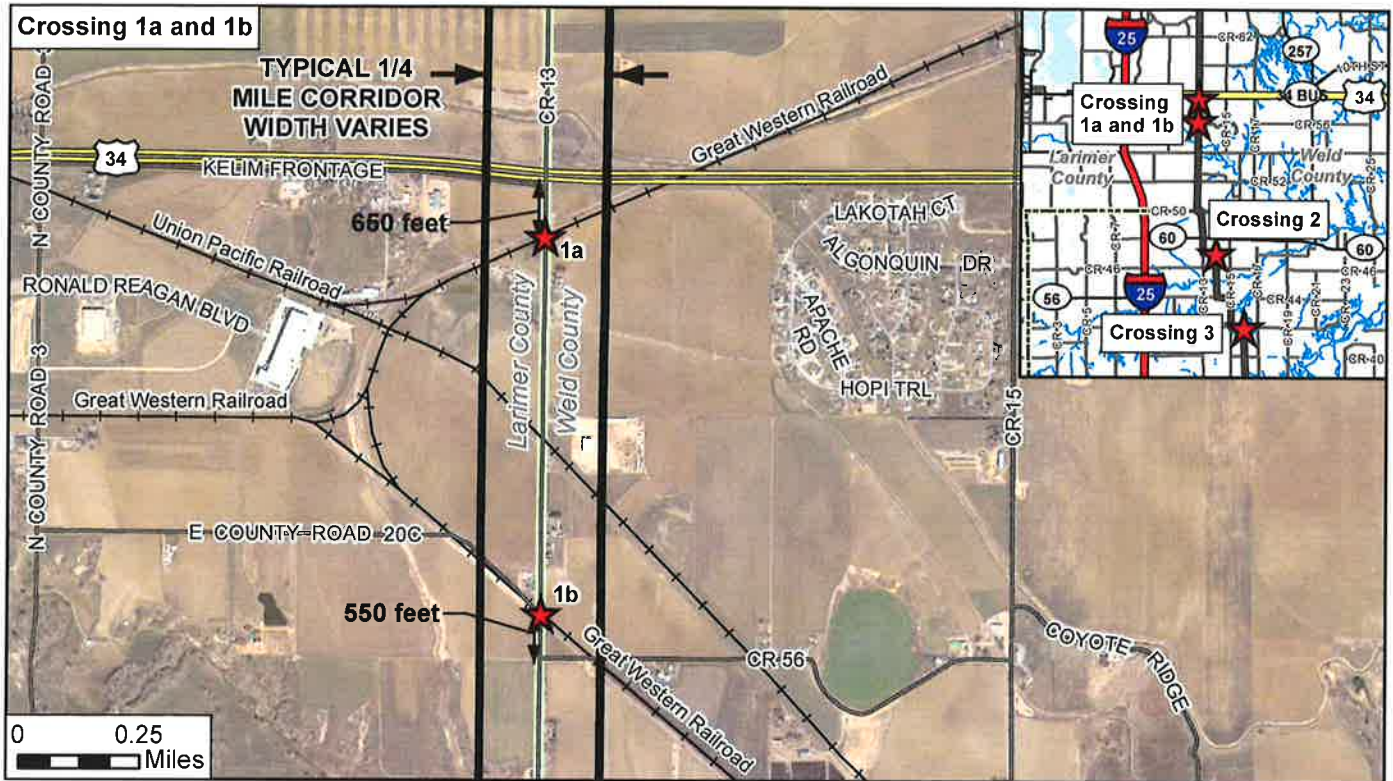
The attached Figure 1 shows the locations that we have identified where the Project corridor crosses your railroad. Currently we anticipate that once designed, the pipeline will be considered a crossing, not an encroachment near the locations shown on Figure 1. Please review the attached figure. Any feedback from GWR on installing a pipeline within the corridor shown will support the development of a pipeline alignment.

Thornton has reviewed information provided on your website and understands that for a pipeline crossing of your facility, the *Application Process and Instructions for Application for Pipeline Crossing/Parallel Encroachment Under/Over Properties and Tracks* should be followed and that submission of an application to OmniTRAX c/o Real Estate Department for each crossing will be required. We look forward to working with you on those applications after an alignment has been developed. Thank you and for questions or to discuss further, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,



John Himyak
Thornton Water Project Engineer



Thornton
WATER PROJECT

CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405



Figure 1
Thornton Water Project
TWP Corridor Great Western
Railroad Crossing Locations
Larimer and Weld Counties, Colorado



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

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May 15, 2017

Ms. Melissa Leal
Jones Lang LaSalle Brokerage, Inc.
4300 Amon Carter Blvd., Ste 100
Fort Worth, TX 76155

RE: Thornton Water Project / Burlington Northern Santa Fe (BNSF) Railway Coordination Request

Dear Ms. Leal:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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The attached Figure 1 shows the locations that we have identified where the Project corridor crosses your railroad. Currently we anticipate that once designed, the pipeline will be considered a crossing, not an encroachment near the locations shown on Figure 1. Please review the attached figure. Any feedback from BNSF Railway on installing a pipeline within the corridor shown will support the development of a pipeline alignment.

Thornton has reviewed information provided on your website and understands that for a pipeline crossing of your facility, the *Pipeline/Wire line Process* should be followed and that submission of an *Application for Pipeline, or Wire Line – Crossing and/or Longitudinal* to Jones LaSalle Brokerage, Inc. for each crossing will be required. We look forward to working with you on those applications after an alignment has been developed. Thank you and for questions or to discuss further, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

A handwritten signature in blue ink, appearing to read "John Himyak".

John Himyak
Thornton Water Project Engineer



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Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

May 15, 2017

Utility Manager
Union Pacific Railroad Company
1400 Douglas St. – Stop 1690
Omaha, NE 68179

RE: Thornton Water Project/Railroad Coordination Request

To Whom It May Concern:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

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The attached Figure 1 shows the locations that we have identified where the Project corridor crosses your railroad. Currently, we anticipate that once designed, the pipeline will be considered a crossing, not an encroachment near the locations shown on Figure 1. Please review the attached figure. Any feedback from UPRR on installing a pipeline within the corridor shown will support the development of a pipeline alignment.

Thornton has reviewed information provided on your website and understands that for a pipeline crossing of your facility, the *Pipeline Installation Procedures for Crossings* and *Pipeline Installation Engineering Specification* should be followed and that submission of an application to UPRR for each crossing will be required. We look forward to working with you on those applications after an alignment has been developed. Thank you and for questions or to discuss further, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

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John Himyak
Thornton Water Project Engineer

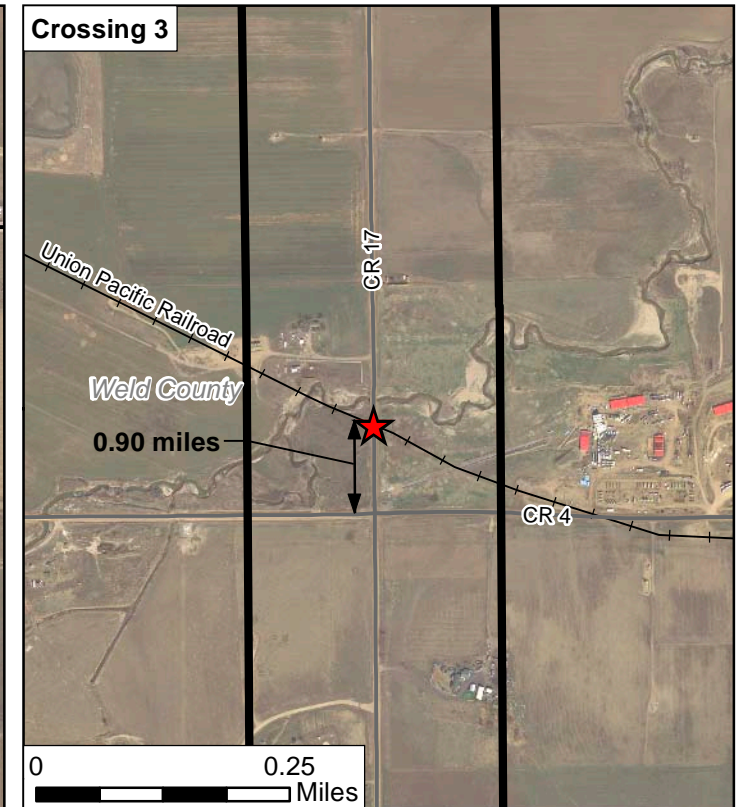
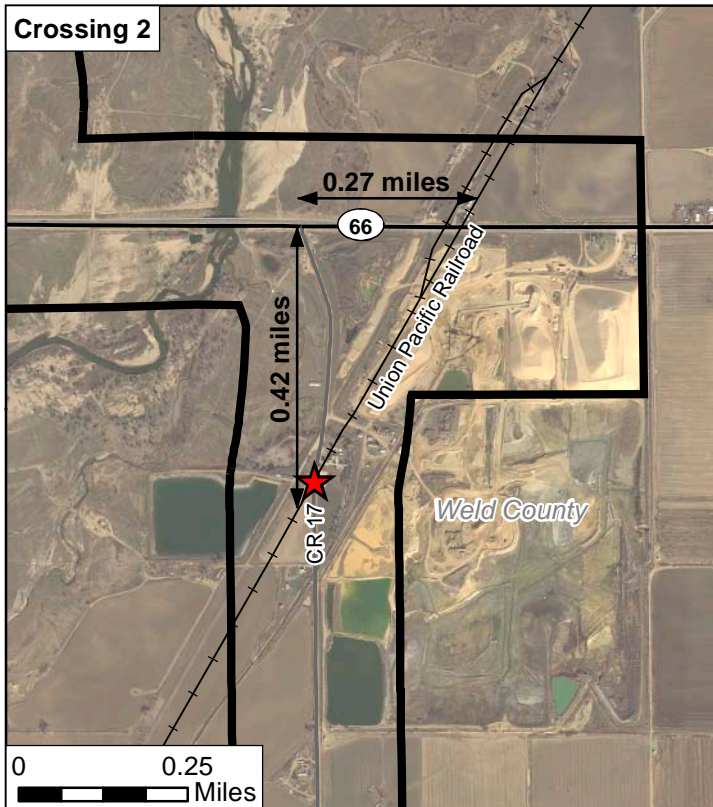
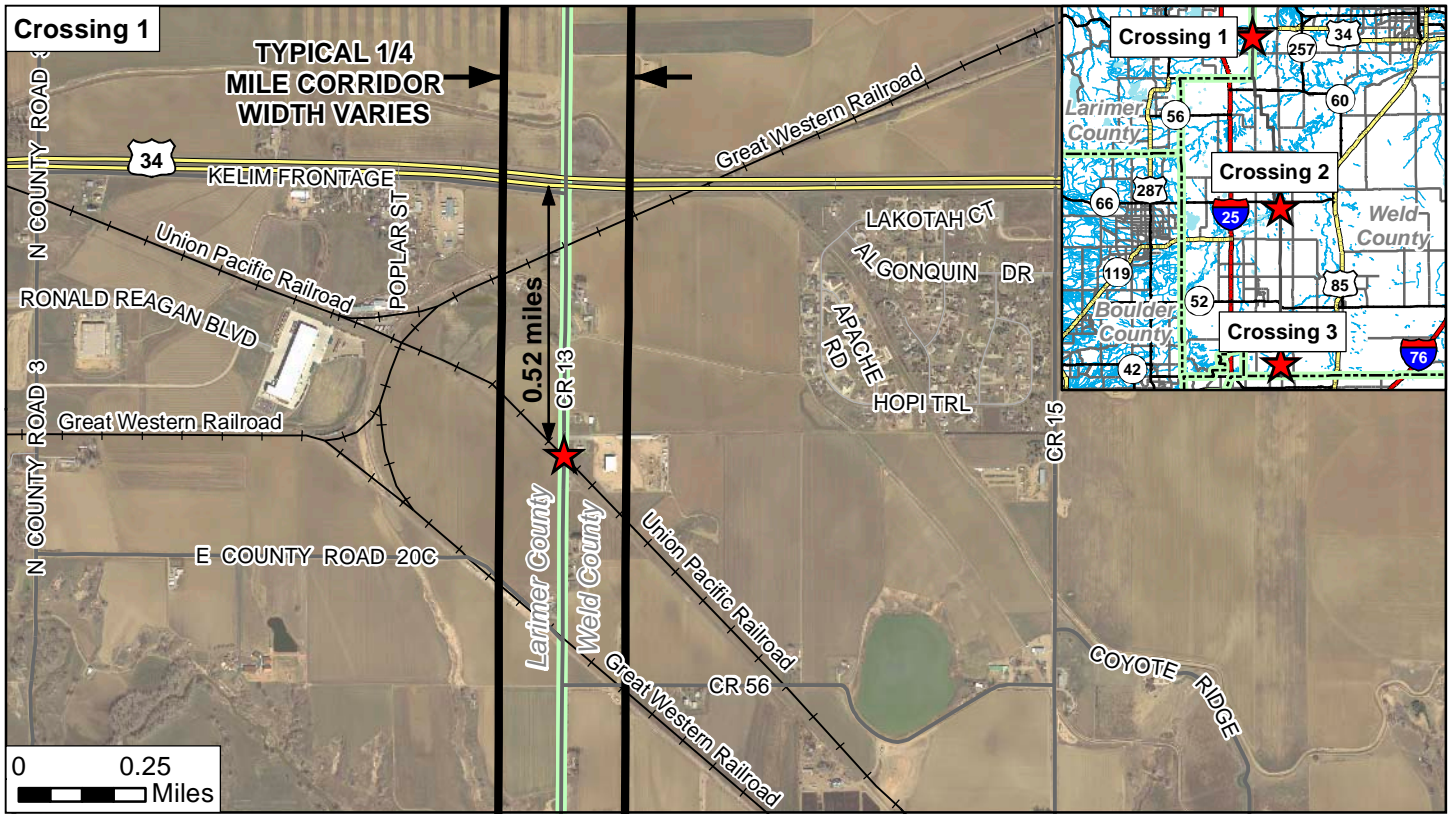


Figure 1
Thornton Water Project
TWP Corridor Union Pacific
Railroad Crossing Locations
Larimer and Weld Counties, Colorado

Wildlife Agency Outreach

March 15, 2017

Mr. Ty Petersburg, Area 4 Wildlife Manager
Colorado Parks and Wildlife
317 West Prospect Road
Fort Collins, Colorado 80526

Re: Concurrence for a List of Special Status Species
Thornton Water Project – Larimer, Weld, and Adams Counties, Colorado

Dear Mr. Petersburg:

The City of Thornton (Thornton) is proposing to construct the Thornton Water Project (TWP), a domestic water transmission project in Larimer, Weld, and Adams Counties, Colorado (project area). As part of the planning process, ERO Resources Corporation (ERO), on behalf of Thornton, is requesting concurrence from Colorado Parks and Wildlife (CPW) on the lists of special status species that may occur within the TWP area or could be affected by the proposed TWP. ERO also requests that CPW provide any initial comments or concerns regarding the TWP at this early stage in the planning process. Thornton is currently developing land use permit applications for the TWP, and no final design has been completed to date. Through the land use permit process, CPW is likely to be contacted as a “Referral Agency” of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton plans to submit a 1041 permit application to Larimer County for the proposed project in spring 2017 and the first of three Use by Special Review permit applications to Weld County in summer 2017. Below is a description of the TWP and the list of species ERO has identified that could occur in the project area or could be impacted by the TWP. The lists will be used to aid in the development of the final alignment and to reduce or eliminate natural resource concerns.

Denver
1842 Clarkson St.
Denver, CO 80218
303.830.1188

Durango
1015 ½ Main Avenue
Durango, CO 81301
970.422.2136

Hotchkiss
P.O. Box 932
161 South 2nd St.
Hotchkiss, CO 81419
970.872.3020

Idaho
4001 East Main Street
Emmett, ID 83617
208.365.7684

Project Location

The TWP corridor is in Larimer, Weld, and Adams Counties, Colorado (Figure 1). The TWP route begins north of Fort Collins in unincorporated Larimer County, travels east and crosses Interstate 25 to the Larimer/Weld County line, and then travels southeast to Thornton in Adams County. A majority of the TWP corridor is located along municipal and county roads, with upland vegetation characterizing both sides of the project corridor. Other sections of the corridor cross undeveloped grasslands, agricultural fields, and housing subdivisions and travel between ponds, reservoirs, and wetlands.

Project Description

As described above, Thornton is proposing to construct a domestic water transmission project through Larimer, Weld, and Adams Counties, Colorado. The proposed route is shown on Figure 1. The TWP corridor is ¼ mile wide to accommodate the outcomes of easement negotiations with individual landowners and potential engineering constraints. The final alignment will include a 50 foot permanent easement and a 40 foot temporary construction easement within the project corridor. The TWP will include a water pipeline to the Thornton Water Treatment Plant and to the Wes Brown Water Treatment Plant. TWP corridors from 120th Avenue south to each of the treatment plants are not confirmed and require further investigation to establish final corridor alignments. That section is indicated as a dashed line on Figure 1.

Natural Resource Assessment

ERO completed a natural resources assessment of the TWP corridor to support the major land use permits Thornton is seeking from Weld and Larimer Counties and to aid in the future development of the final alignment for the pipeline by detailing the natural resources found within the TWP corridor. ERO assessed an approximate ¼-mile corridor, as well as an additional 500-foot study buffer on either side of the corridor and a 1,200-foot additional buffer around the proposed pump station and tank sites. ERO assessed the TWP corridor for potential wetlands and other waters of the U.S., broad vegetation communities, federal and state threatened and endangered species, and migratory birds. ERO conducted surveys along the TWP corridor and study buffer on May 10, 11, 12, and 16 and July 14, 2016 (2016 site visits) adjacent to public roads or on Thornton-owned property and assessed natural resources via aerial imagery for areas that were inaccessible.

Site Conditions

During the 2016 site visits, ERO mapped vegetation communities within the TWP corridor. ERO identified the dominant species and grouped similar communities into vegetation cover types based on factors such as dominance by native or introduced species, moisture regime, and dominant growth type (trees, shrubs, or grasses). Based on the 2016 site visits and Google Earth imagery, ERO has identified six broad vegetation communities within the TWP corridor, as described below.

Mixed Upland

The Mixed Upland community occurs primarily in historically undisturbed uplands in the TWP corridor. Kentucky bluegrass (*Poa pratensis*) and western wheatgrass (*Pascopyrum smithii*) dominate this community. Other common species include needle-and-threadgrass (*Hesperostipa comata*), fringed sage (*Artemisia frigida*), switchgrass (*Panicum virgatum*), and foxtail barley (*Hordeum jubatum*). Some three-leaf sumac (*Rhus trilobata*), soapweed yucca (*Yucca glauca*), rubber rabbitbrush (*Ericamerica nauseosa*), and other shrubs are scattered throughout this community. Noxious weeds such as cheatgrass (*Bromus tectorum*) and field bindweed

(*Convolvulus arvensis*) also occur within this vegetation community type. Mixed Uplands in the TWP corridor are of moderate quality because they have been grazed in the past and contain some weeds.

Nonnative Upland

The Nonnative Upland community occurs throughout the TWP corridor and includes areas that have been historically disturbed by heavy grazing, tilling, and hay production. In many cases, introduced species and pasture grasses dominate the community. The Nonnative Upland community is dominated by species such as smooth brome (*Bromus inermis*), Japanese brome (*Bromus japonicus*), crested wheatgrass (*Agropyron cristatum*), and kochia (*Bassia scoparia*), which predominantly occur along roadsides and other disturbed areas throughout the TWP corridor. Noxious weed species such as diffuse knapweed (*Centaurea diffusa*) and cheatgrass also occur within this vegetation community type.

Riparian

The Riparian community includes moist areas along the larger tributaries and rivers in the TWP corridor. Some areas mapped remotely as Riparian may include potential wetlands as well (see *Wetlands* discussion below). Depending on the site, plains cottonwood (*Populus deltoides*), crack willow (*Salix fragilis*), and peachleaf willow (*Salix amygdaloides*) form the overstory with a shrub layer of chokecherry (*Prunus virginiana*), American plum (*Prunus americana*), western snowberry (*Symphoricarpos occidentalis*), Woods' rose (*Rosa woodsii*), and sandbar willow (*Salix exigua*). The noxious weed tree Russian olive (*Elaeagnus angustifolia*) is common in this cover type. Smooth brome and Kentucky bluegrass dominate the understory.

Wetlands

Wetlands occur as fringes or wide benches along drainages, roadside swales, ponds, and lakes and as isolated depressions throughout the TWP corridor. Riparian vegetation abuts many of the potential wetlands along the perennial streams. Vegetation within the wetlands is dominated by plains cottonwood (*Populus deltoides*) trees, sandbar willow, narrowleaf cattail (*Typha angustifolia*), broadleaf cattail (*Typha latifolia*), Baltic rush (*Juncus arcticus*), Nebraska sedge (*Carex nebrascensis*), and reed canarygrass (*Phalaris arundianacea*).

Agricultural Lands

Tilled and/or managed agricultural lands are common throughout the TWP corridor. Agricultural lands are characterized by crops such as alfalfa, corn, small grains, and soy, as well as fallow ground and disturbed areas associated with agriculture.

Developed/Disturbed Areas

Developed/disturbed areas occur throughout the TWP corridor.

Developed/disturbed areas have received heavy human use, including livestock concentration areas, buildings and surrounding disturbed areas, and roads, trails, and

other developed areas. Developed/disturbed areas in the TWP corridor often contain bare ground or if vegetation is present, are dominated by annual and noxious weed species such as kochia, cheatgrass, curly dock (*Rumex crispus*), biennial thistles, and diffuse knapweed.

State Threatened, Endangered, and Candidate Species

ERO assessed the TWP corridor for potential habitat for state-listed threatened, endangered, and species of special concern. The TWP corridor contains suitable or potentially suitable habitat for several state-listed wildlife species (Table 1). A letter has been submitted to the U.S. Fish and Wildlife Service requesting concurrence of potential federally listed species that may occur within the TWP corridor.

Table 1. State threatened, endangered, and species of special concern potentially found in the study area or with potential to be affected by the TWP in the study area.

Common Name	Scientific Name	State Status *	Habitat	Suitable Habitat Present
Amphibians and Reptiles				
Common garter snake	<i>Thamnophis sirtalis</i>	SC	Limited to the floodplain of the South Platte River and its tributaries in Colorado	Yes – tributaries to the South Platte River
Northern leopard frog	<i>Rana pipiens</i>	SC	Wetlands, streams, beaver ponds, stock ponds, wet meadows, and floodplains; typically clear streams with sandy soils	Yes – wetlands and streams in the TWP corridor
Mammals				
Black-tailed prairie dog	<i>Cynomys ludovicianus</i>	SC	Shortgrass prairie	Yes – active prairie dog colonies observed in the TWP corridor
Canada lynx	<i>Lynx canadensis</i>	FT, SE	Dense subalpine forest and willow-choked corridors along mountain streams and avalanche chutes	No
North American wolverine	<i>Gulo gulo luscus</i>	FPT, SE	Deep, persistent, and reliable spring snow cover; primarily boreal forests, tundra, and western mountains	No
Preble’s meadow jumping mouse	<i>Zapus hudsonius preblei</i>	FT, ST	Shrub riparian/wet meadows	Yes – wetlands and streams within the TWP corridor
River otter	<i>Lontra canadensis</i>	ST	Riparian habitat; dependent on high-quality permanent water bodies	Yes – north end of TWP corridor crosses known species’ range
Swift fox	<i>Vulpes velox</i>	SC	Shortgrass prairie; agricultural lands	Yes – marginally suitable habitat, but no dens observed

Common Name	Scientific Name	State Status *	Habitat	Suitable Habitat Present
Birds				
Bald eagle	<i>Haliaeetus leucocephalus</i>	SC	Typically nests in trees near rivers and lakes; along the Colorado Front Range, may occasionally nest in upland trees with a nearby food source (prairie dogs); forages in open water, at times in prairie dog towns	Yes – suitable nesting habitat; winter roosts and potential foraging areas
Burrowing owl	<i>Athene cunicularia</i>	ST	Shortgrass prairie with prairie dog colonies	Yes – prairie dog burrows located in the TWP corridor
Ferruginous hawk	<i>Buteo regalis</i>	SC	Shortgrass prairie	Yes – nests in Weld County; may winter along entire corridor
Interior least tern**	<i>Sterna antillarum athalassos</i>	FE, SE	Sandy/pebble beaches on lakes, reservoirs, and rivers	No – outside of known breeding range in Colorado
Long-billed curlew	<i>Numenius americanus</i>	SC	Shortgrass prairie near water	Potentially – known to breed in Weld and Adams Counties
Mexican spotted owl	<i>Strix occidentalis</i>	FT, ST	Closed canopy forests in steep canyons	Closed canopy forests in steep canyons
Mountain plover	<i>Charadrius montanus</i>	SC	Open, flat tablelands and shortgrass prairie vegetation less than 6 inches high; breeds in areas with about 30 percent bare ground, including grazed grasslands, fallow fields, and prairie dog towns	Unlikely – very little suitable habitat for mountain plovers occurs in the study area; plovers are vulnerable to human and vehicle disturbance
Peregrine falcon	<i>Falco peregrinus anatum</i>	SC	Open or partially wooded habitats; breed on cliffs and rock outcrops	Yes – winter/ migration; no suitable breeding habitat
Piping plover**	<i>Charadrius melodus</i>	FT, ST	Sandy lakeshore beaches and river sandbars	No – outside of known breeding range in Colorado
Whooping crane**	<i>Grus americana</i>	FE, SE	Mudflats around reservoirs and in agricultural areas	Unlikely – rare migrant in the area
Fish				
Brassy minnow	<i>Hybognathus hankinsoni</i>	ST	Grassland streams and small ponds; cooler flowing waters or pools with sand and gravel substrate with aquatic vegetation	Potentially – known to occur in St. Vrain Creek, the Poudre River, and the South Platte River
Common shiner	<i>Luxilus cornutus</i>	ST	Cool, clear streams with moderate gradient, gravelly bottoms, and shady areas	Potentially – known to occur in cool transitional zone streams in the South Platte River Basin
Greenback cutthroat trout	<i>Oncorhynchus clarki stomias</i>	FT, ST	Cold, clear, gravelly headwater streams and mountain lakes in the South Platte and Arkansas River Basins	No

Common Name	Scientific Name	State Status *	Habitat	Suitable Habitat Present
Iowa darter	<i>Etheostoma exile</i>	SC	Cool, clear waters over sand or organic substrate, with side bank vegetation that extends over water; also in ponds and lakes	Potentially – known to occur in St. Vrain Creek, the Big Thompson River, and the Poudre River
Stonecat	<i>Noturus flavus</i>	SC	Fast water riffles and runs of streams with sand-gravel bottoms, often under rocks and debris	Potentially – St. Vrain Creek near Longmont
Suckermouth minnow	<i>Phenacobius mirabilis</i>	SE	Gravel and rubble riffles and runs of clear to turbid creeks and small to medium rivers	Potentially – known to occur in St. Vrain Creek

*SE = State Endangered Species; ST = State Threatened Species; SC = State Species of Concern; FE = Federal Endangered Species; FT = Federal Threatened Species; FPT = Federally Proposed Threatened Species.

Source: Colorado Division of Wildlife (CDOW) 2006; Colorado Natural Diversity Information Source (CNDIS) 2016; CPW 2016a, 2016b; Woodling 1985.

Other Wildlife

As part of the natural resources assessment, ERO identified other wildlife that may occur within the TWP corridor or may be impacted by the TWP. Species that have the potential to occur in the TWP corridor are listed in Table 2.

Table 2. Potential wildlife occurring in the TWP corridor.

Common Name	Scientific Name
Black bear	<i>Ursus americanus</i>
Bull snake	<i>Pituophis catenifer</i>
Cottontail rabbit	<i>Sylvilagus</i> sp.
Coyote	<i>Canis latrans</i>
Deer mouse	<i>Peromyscus maniculatus</i>
Great Plains toad	<i>Anaxyrus cognatus</i>
Ground squirrel	<i>Ictidomys tridecemlineatus</i> ; <i>Xerospermophilus spilosoma</i>
Mountain lion	<i>Felis concolor</i>
Mule deer	<i>Odocoileus hemionus</i>
Plains pocket gopher	<i>Geomys bursarius</i>
Plains spadefoot	<i>Spea bombifrons</i>
Prairie vole	<i>Microtus pennsylvanicus</i>
Pronghorn	<i>Antilocapra americana</i>
Raccoon	<i>Procyon lotor</i>
Red fox	<i>Vulpes vulpes</i>
Western terrestrial garter snake	<i>Thamnophis elegans</i>
White-tailed deer	<i>Odocoileus virginianus</i>
Wild turkey	<i>Meleagris gallopavo</i>
Woodhouse's toad	<i>Anaxyrus woodhousii</i>

Conclusion

On behalf of Thornton, ERO requests concurrence from CPW on the lists provided above for special status species, migratory birds, and other wildlife that may occur within the TWP corridor north of 120th Avenue or that could be impacted by the project. ERO also requests that CPW provide any comments or concerns regarding additional species or requirements that may be pertinent to the TWP. Thornton and

ERO would also be glad to meet with CPW to discuss the TWP and any comments or concerns regarding the project.

Thornton plans to develop measures to avoid and minimize impacts to raptors and other migratory birds during project construction and will be coordinating with the Colorado Parks and Wildlife Area 4 wildlife manager prior to and during construction on the most effective means to minimize effects to raptors and other migratory birds.

If you have any questions or would like additional information, please call me at (303) 830-1188. We look forward to hearing from you.

Sincerely,



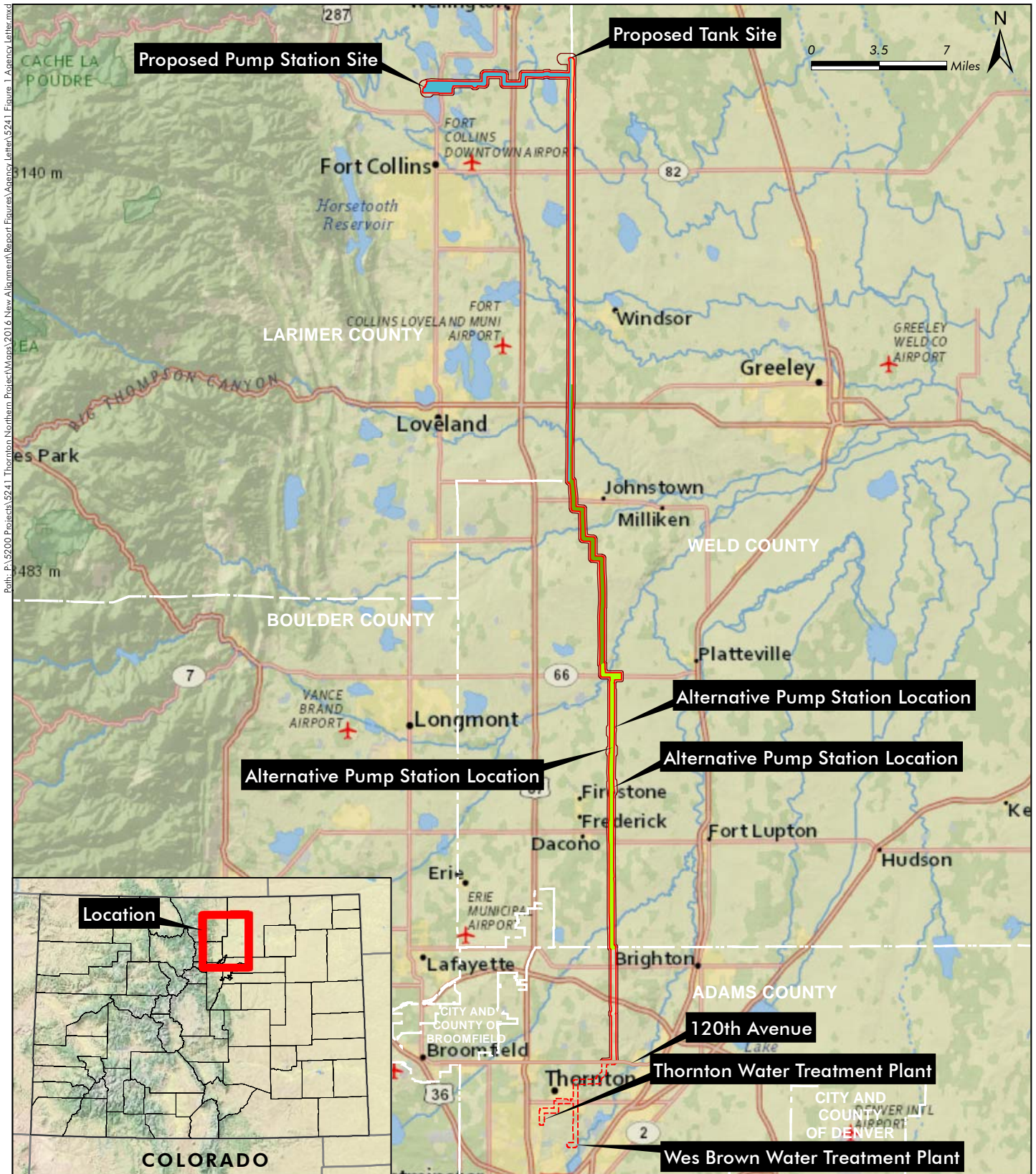
Moneka Worah
Natural Resource Specialist

Attachment

cc: John Himyak – City of Thornton
Jody Henry – CH2M, Inc.

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- Colorado Division of Wildlife (CDOW). 2006. Pocket Guide to Native Fish of Colorado's Eastern Plains. May.
- Colorado Natural Diversity Information Source (CNDIS). 2016. GIS Habitat Coverage. <http://cpw.state.co.us/learn/Pages/Maps.aspx/>. Last accessed August 5, 2016. Last updated February 22, 2016.
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- Woodling, J. 1985. Colorado's Little Fish: A Guide to the Minnows and Other Lesser Known Fishes in the State of Colorado. June 1985. Colorado Division of Wildlife, Denver, CO. <http://www.nativefishlab.net/library/textpdf/20824.pdf>.



Thornton Water Project

Adams, Larimer, and Weld Counties, Colorado

- TWP
- Conceptual TWP Corridor and Study Buffer - Additional Study Required
- Study
- Weld County Permit Application
- Weld County Permit Application
- Larimer County Permit Application

Figure 1 Vicinity Map

Prepared for: City of Thornton
File: 5241 Figure 1 Agency Letter.mxd [dlH]
March 15, 2017





March 15, 2017

Mr. Drue DeBerry
U.S. Fish and Wildlife Service
Colorado Field Office
Denver Federal Center (MS 65412)
PO Box 25486
Denver, Colorado 80225

Re: Thornton Water Project – Larimer, Weld, and Adams Counties, Colorado

Dear Mr. DeBerry:

The City of Thornton (Thornton) is proposing to construct the Thornton Water Project (TWP), a domestic water transmission project in Larimer, Weld, and Adams Counties, Colorado. As part of the planning process, ERO Resources Corporation (ERO), on behalf of Thornton, is requesting concurrence from the U.S. Fish and Wildlife Service (Service) on the lists of special status species that may occur within the TWP area or could be affected by the TWP. ERO also requests that the Service provide any initial comments or concerns regarding the TWP at this early stage in the planning process. Below is a description of the TWP and the lists of species ERO has identified.

Thornton is proposing to construct the TWP using trenchless construction methods to cross jurisdictional waters of the U.S. and suitable habitat for federally threatened and endangered species. Based on this approach, it is anticipated that the TWP would not require any federal approvals such as a Clean Water Act 404 permit or consultation under the Endangered Species Act. The TWP does not involve any federal funding and it will not cross federally owned lands. Thornton has been coordinating with the U.S. Army Corps of Engineers (Corps) regarding the TWP and plans to submit an approved jurisdictional determination request to the Corps to determine which areas in the TWP corridor are jurisdictional waters of the U.S. Thornton also plans to submit a habitat assessment to the Service when the final alignment has been determined to confirm the boundaries of potential habitat identified within the alignment and to confirm the TWP would have no effect on Preble's meadow jumping mouse (Preble's) or its habitat. Because no federal action is anticipated, formal consultation regarding federally listed species affected by depletions to the South Platte River would not be required. It should be noted, however, that Thornton is a member of the South Platte Water Related Activities Program (SPWRAP).

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Idaho
4001 East Main Street
Emmett, ID 83617
208.365.7684

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Consultants in
Natural Resources
and the Environment

Thornton is currently developing land use permit applications for the TWP, and no final design has been completed to date. Through the land use permit process, the Service is likely to be contacted as a “Referral Agency” of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton will be submitting a 1041 permit application to Larimer County in spring 2017 and the first of three Use by Special Review permit applications to Weld County in summer 2017.

Project Location

The TWP corridor is in Larimer, Weld, and Adams Counties, Colorado (Figure 1). The TWP route begins north of Fort Collins in unincorporated Larimer County, travels east and crosses Interstate 25 to the Larimer/Weld County line, and then travels southeast to Thornton in Adams County. A majority of the TWP corridor is located along undeveloped grasslands, agricultural fields, and housing subdivisions and travels between ponds, reservoirs, and wetlands. Other sections of the corridor are located along municipal and county roads, with upland vegetation characterizing both sides of the TWP corridor.

Project Description

As described above, Thornton is proposing to construct a domestic water transmission project through Larimer, Weld, and Adams Counties, Colorado. The proposed route is shown on Figure 1. The TWP corridor is ¼ mile wide to accommodate the outcomes of easement negotiations with individual landowners and potential engineering constraints. The final alignment will include a 50 foot permanent easement and a 40 foot temporary construction easement within the project corridor. The TWP will include a water pipeline to the Thornton Water Treatment Plant and to the Wes Brown Water Treatment Plant. TWP corridors from 120th Avenue south to each of the treatment plants are not confirmed and require further investigation to establish final corridor alignments. That section is indicated as a dashed line on Figure 1.

ERO completed a natural resources assessment of the TWP corridor to support the major land use permits Thornton is seeking from Weld and Larimer Counties and to aid in the future development of the final alignment for the pipeline by detailing the natural and cultural resources found within the TWP corridor. ERO assessed an approximate ¼-mile corridor, as well as an additional 500-foot study buffer on either side of the corridor and a 1,200-foot additional buffer around the proposed pump station and tank sites. ERO assessed the TWP corridor for potential wetlands and other waters of the U.S., broad vegetation communities, federal and state threatened and endangered species, and migratory birds. ERO conducted surveys along the TWP corridor and study buffer on May 10, 11, 12, and 16 and July 14, 2016 (2016 site visits) adjacent to public roads or on Thornton-owned property and assessed natural resources via aerial imagery for areas that were inaccessible.

Federal Threatened, Endangered, and Candidate Species

ERO assessed the TWP corridor and study buffer for potential habitat for federally threatened, endangered, and candidate species protected under the Endangered Species Act (ESA). The Service lists several threatened and endangered species with potential habitat in Larimer, Weld, and Adams Counties, or with the potential to be affected by projects in Larimer, Weld, and Adams Counties (**Error! Reference source not found.**). No critical habitat for any federally listed species was identified within the TWP corridor.

Table 1. Federally threatened, endangered, and candidate species potentially found in Larimer, Weld, and Adams Counties or potentially affected by projects in Larimer, Weld, and Adams Counties.

Common Name	Scientific Name	Status*	Habitat
Mammals			
Canada lynx	<i>Lynx canadensis</i>	FT, SE	Dense subalpine forest and willow-choked corridors along mountain streams and avalanche chutes
North American wolverine	<i>Gulo gulo luscus</i>	FPT	Deep, persistent, and reliable spring snow cover; primarily boreal forests, tundra, and western mountains
Preble's meadow jumping mouse	<i>Zapus hudsonius preblei</i>	FT, ST	Shrub riparian/wet meadows
Birds			
Interior least tern**	<i>Sterna antillarum athalassos</i>	FE, SE	Sandy/pebble beaches on lakes, reservoirs, and rivers
Mexican spotted owl	<i>Strix occidentalis</i>	FT, ST	Closed canopy forests in steep canyons
Piping plover**	<i>Charadrius melodus</i>	FT, ST	Sandy lakeshore beaches and river sandbars
Whooping crane**	<i>Grus americana</i>	FE, SE	Mudflats around reservoirs and in agricultural areas
Fish			
Greenback cutthroat trout	<i>Oncorhynchus clarki stomias</i>	FT, ST	Cold, clear, gravely headwater streams and mountain lakes in the South Platte and Arkansas River Basins
Pallid sturgeon**	<i>Scaphirhynchus albus</i>	FE	Large, turbid, free-flowing rivers with a strong current and gravel or sandy substrate
Insects			
Arapahoe snowfly	<i>Arsapnia arapahoe</i>	FC	Cold, clean, well-oxygenated streams and rivers; found in only two tributaries (Elkhorn Creek and Young Gulch) of the Poudre River in Colorado
Plants			
Colorado butterfly plant	<i>Gaura neomexicana</i> ssp. <i>coloradensis</i>	FT	Subirrigated, alluvial soils on level floodplains and drainage bottoms between 5,000 and 6,400 feet in elevation
North Park phacelia	<i>Phacelia formosula</i>	FE	Found in North Park, Colorado between 8,000 and 8,300 feet in elevation; limited to eroded soil outcrops consisting of barren exposures of the Coalmont Formation
Ute ladies'-tresses orchid	<i>Spiranthes diluvialis</i>	FT	Moist to wet alluvial meadows, floodplains of perennial streams, and around springs and lakes below 6,500 feet in elevation

Common Name	Scientific Name	Status*	Habitat
Western prairie fringed orchid**	<i>Platanthera praeclara</i>	FT	Moist to wet prairies and meadows

*FE = Federally Endangered Species; FT = Federally Threatened Species; FC = Federal Candidate Species; FPT = Federally Proposed Threatened Species; SE = State Endangered Species; ST = State Threatened Species.

**Water depletions in the South Platte River may affect the species and/or critical habitat in downstream reaches in other counties or states.

Source: Service 2016.

Other Sensitive Species

In addition to species listed as threatened or endangered, ERO assessed the project area for potential habitat and the presence of species protected by the Migratory Bird Treaty Act (MBTA). Migratory birds, as well as their eggs and active nests, are protected under the MBTA. Migratory bird habitat typically includes trees and shrubs, but upland grasslands also are used for nesting.

Three known bald eagle nest sites are within or near the TWP corridor. Colorado Parks and Wildlife (CPW) recommends seasonal restrictions for human activities within a ½-mile radius of active nests from October 15 through July 31 (Colorado Division of Wildlife 2008). These buffers overlap the TWP corridor and study buffer. In addition, one known roost site is within the TWP corridor and study buffer. The TWP corridor and study buffer overlap bald eagle winter concentration and forage areas at several locations.

Nine active raptor nests were observed during the 2016 site visits and four potential raptor nests were identified in the TWP corridor and study buffer. The raptors identified in the TWP corridor include red-tailed hawks, Swainson’s hawks, and great horned owls. In addition, the CPW raptor nest database (CPW 2015) shows several red-tailed hawk nests located in or near the TWP corridor as well as a great horned owl (*Bubo virginianus*) nest in the TWP corridor. The short-eared owl (*Asio flammeus*) is likely to occur in or near the study area, although none were observed during the 2016 site visits. Owls are strongly associated with wetland habitats near extensive grasslands and are known to breed in Larimer, Weld, and Adams Counties (CPW 2016). Golden eagles are known to breed in eastern Larimer County. In addition, golden eagles have been known to breed in scattered locations in Weld County (Colorado Breeding Bird Atlas II 2016). No golden eagles currently nest in or near the TWP corridor (CPW 2015), although individuals may occasionally forage within the TWP corridor.

No migratory bird nests were observed in the study area during the 2016 site visits; however, suitable nesting habitat is present throughout the study area. Ground-nesting and other birds could potentially nest in the grasslands and trees in and near the study area. The cattails and other wetland/riparian vegetation along the study area offer potential habitat for a variety of songbirds. Table 2 is a list of bird species of conservation concern (Service 2017) potentially found within the TWP corridor.

Thornton plans to develop measures to avoid or minimize impacts to raptors and other migratory birds during TWP construction and will be coordinating with the Colorado Parks and Wildlife Area 4 wildlife manager prior to and during construction on the most effective means to minimize effects to raptors and other migratory birds.

Table 2. Migratory birds potentially found within the TWP corridor.

Common Name	Scientific Name
American bittern	<i>Botaurus lentiginosus</i>
Bald eagle	<i>Haliaeetus leucocephalus</i>
Black rosy-finch	<i>Leucosticte atrata</i>
Black swift	<i>Cypseloides niger</i>
Brewer's sparrow	<i>Spizella breweri</i>
Burrowing owl	<i>Athene cunicularia</i>
Cassin's finch	<i>Carpodacus cassinii</i>
Dickcissel	<i>Spiza Americana</i>
Ferruginous hawk	<i>Buteo regalis</i>
Flammulated owl	<i>Otus flammeolus</i>
Golden eagle	<i>Aquila chrysaetos</i>
Lark bunting	<i>Calamospiza melanocorys</i>
Lewis's woodpecker	<i>Melanerpes lewis</i>
Loggerhead shrike	<i>Lanius ludovicianus</i>
Long-billed curlew	<i>Numenius americanus</i>
Mccown's longspur	<i>Calcarius mccownii</i>
Mountain plover	<i>Charadrius montanus</i>
Peregrine falcon	<i>Falco peregrinus</i>
Prairie falcon	<i>Falco mexicanus</i>
Red-headed woodpecker	<i>Meanerpes erythrocephalus</i>
Sage thrasher	<i>Oreoscoptes montanus</i>
Short-eared owl	<i>Asio flammeus</i>
Swainson's hawk	<i>Buteo swainsoni</i>
Virginia's warbler	<i>Vermivora virginiae</i>
Western grebe	<i>Aechmophorus occidentalis</i>
Williamson's sapsucker	<i>Sphyrapicus thyroideus</i>
Willow flycatcher	<i>Empidonax traillii</i>

Conclusions

On behalf of Thornton, ERO requests concurrence from the Service on the lists provided above for potential federally listed species and migratory birds that may occur within the TWP corridor north of 120th Avenue or could be impacted by the project. ERO also requests the Service provide any comments or concerns regarding TWP at this early stage in the planning process. Thornton and ERO would also be glad to meet with the Service to discuss the project.

If you have any questions or would like additional information, please call me at (303) 830-1188. We look forward to hearing from you.

Sincerely,



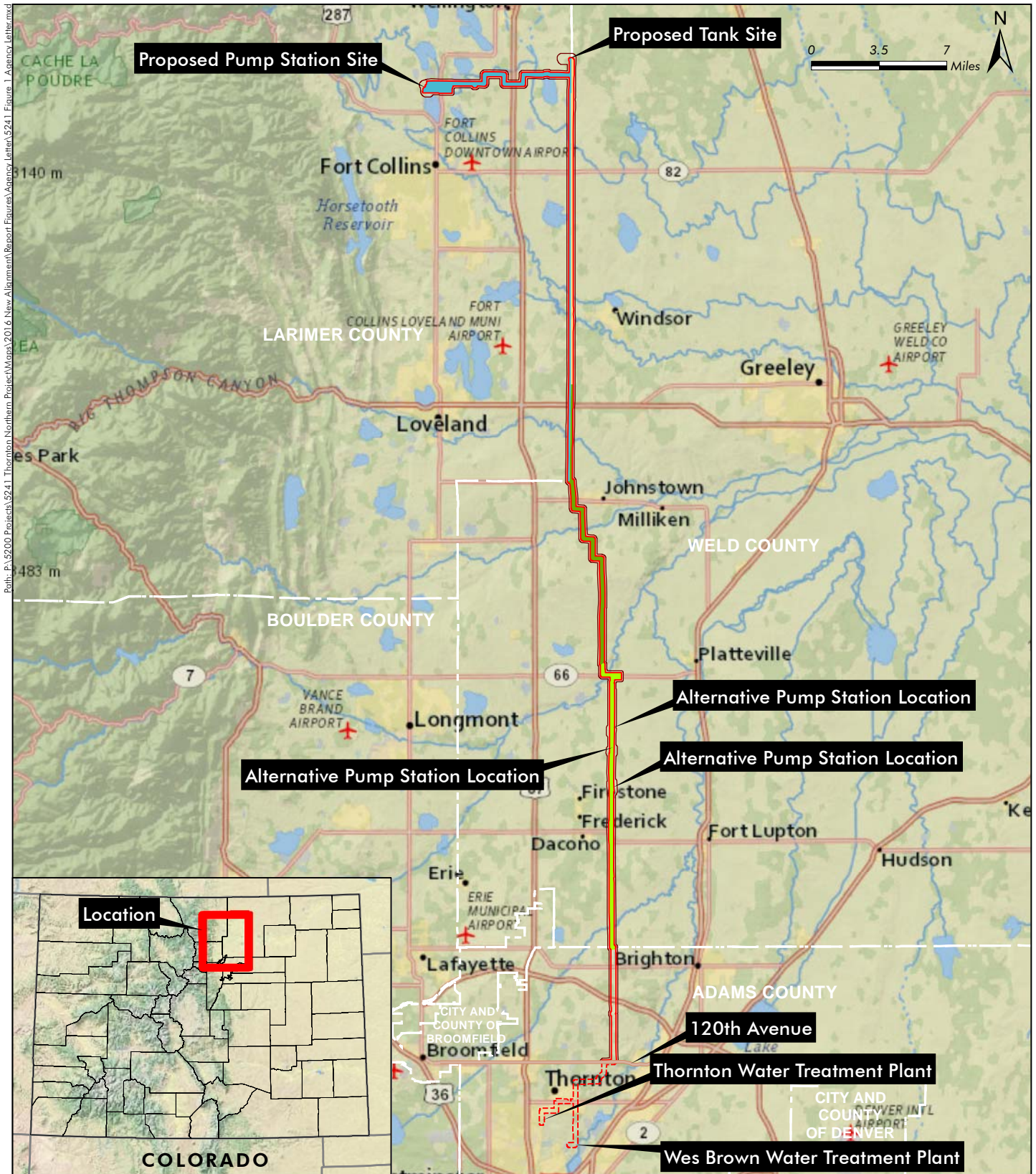
Moneka Worah
Natural Resource Specialist

Attachment

cc: John Himyak – City of Thornton
Jody Henry – CH2M, Inc.

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Thornton Water Project

Adams, Larimer, and Weld Counties, Colorado

- TWP
- Conceptual TWP Corridor and Study Buffer - Additional Study Required
- Study
- Weld County Permit Application
- Weld County Permit Application
- Larimer County Permit Application

Figure 1 Vicinity Map

Prepared for: City of Thornton
File: 5241 Figure 1 Agency Letter.mxd [dlH]
March 15, 2017



Local Fire Districts



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

May 15, 2017

Mr. Scott Wagner
Ault-Pierce Fire Protection District
205 1st Street
Ault, CO 80610

RE: Thornton Water Project/Fire District Coordination Request

Dear Mr. Wagner:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of a buried water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is developing land use permit applications for the Project, and no specific route or alignment has been identified. Thornton has identified a preferred corridor for the water pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with local departments to ensure that department questions are addressed.

The attached Figure 1 shows the Project corridor location where the water pipeline will be located within your fire district boundaries. Approximately two miles of the Project corridor is located within the Ault Fire Authority boundaries. Thornton will be seeking approval for the water pipeline under the major land use permit process in Larimer County.

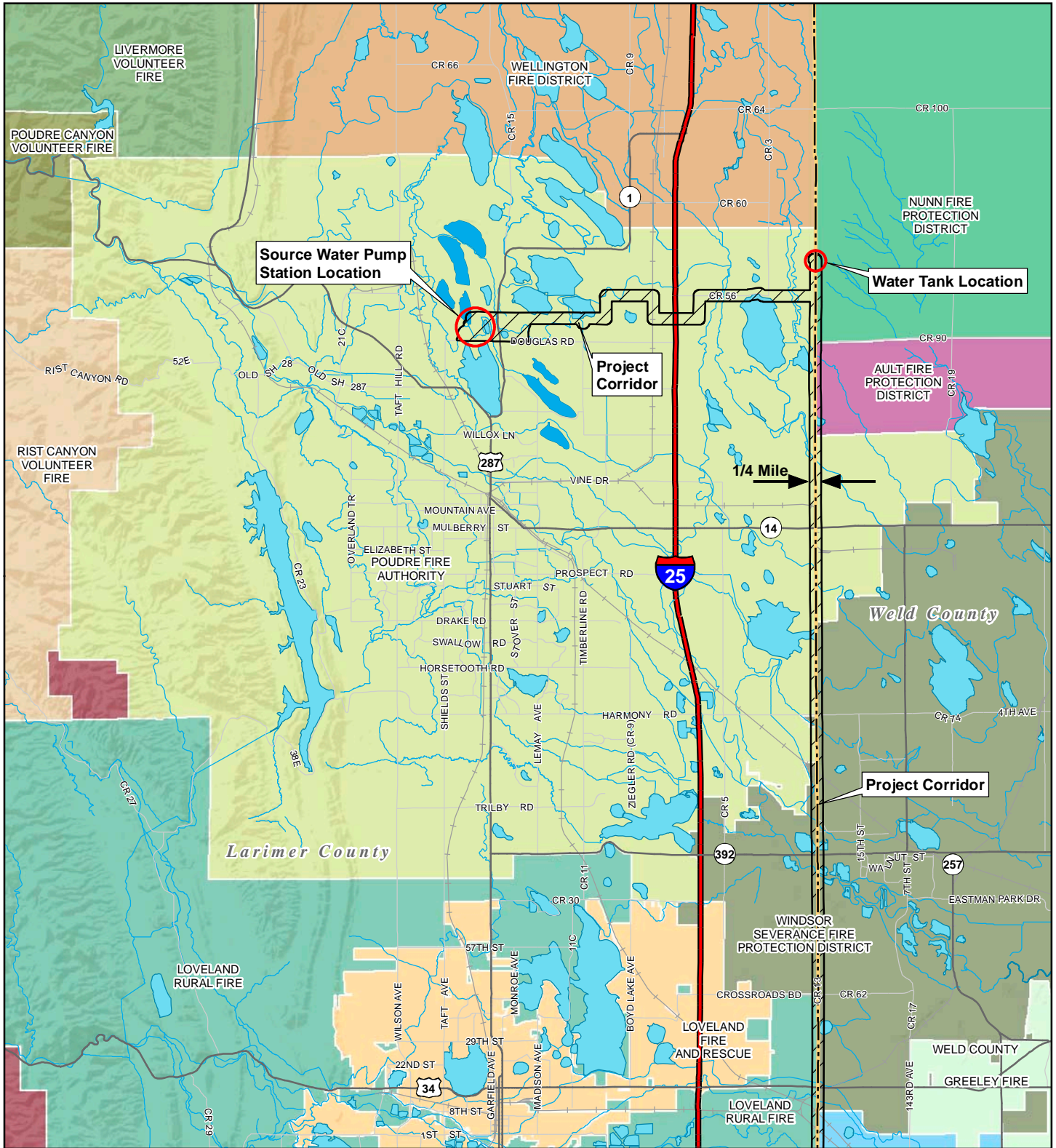
Thank you and for questions, or to coordinate a meeting, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

A handwritten signature in blue ink, appearing to read "John Himyak", written over a light blue horizontal line.

John Himyak
Thornton Water Project Engineer

Thornton Water Project



CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405

2/7/2017



1 inch = 3 miles
0 0.75 1.5 3 Miles

- Project Corridor
- Railroad
- County Boundary
- Lake/Reservoir
- River/Stream/Canal/Ditch

Figure 1
Thornton Water Project Corridor
Fire District Boundaries



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
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720-977-6700
Fax: 720-977-6202

May 15, 2017

Mr. Robert Stumpf
Berthoud Fire Protection District
275 Mountain Ave., PO Box 570
Berthoud, CO 80513

RE: Thornton Water Project/Fire District Coordination Request

Dear Mr. Stumpf:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of a buried water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is developing land use permit applications for the Project, and no specific route or alignment has been identified. Thornton has identified a preferred corridor for the water pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with local departments to ensure that department questions are addressed.

The attached Figure 1 shows the Project corridor location where the water pipeline will be located within local fire district boundaries. The corridor does not cross Berthoud Fire Protection District's boundary. However, Thornton will be seeking approval for the water pipeline under the major land use permit process in Larimer County, and Berthoud Fire Protection District may be a referral agency during the permitting process.

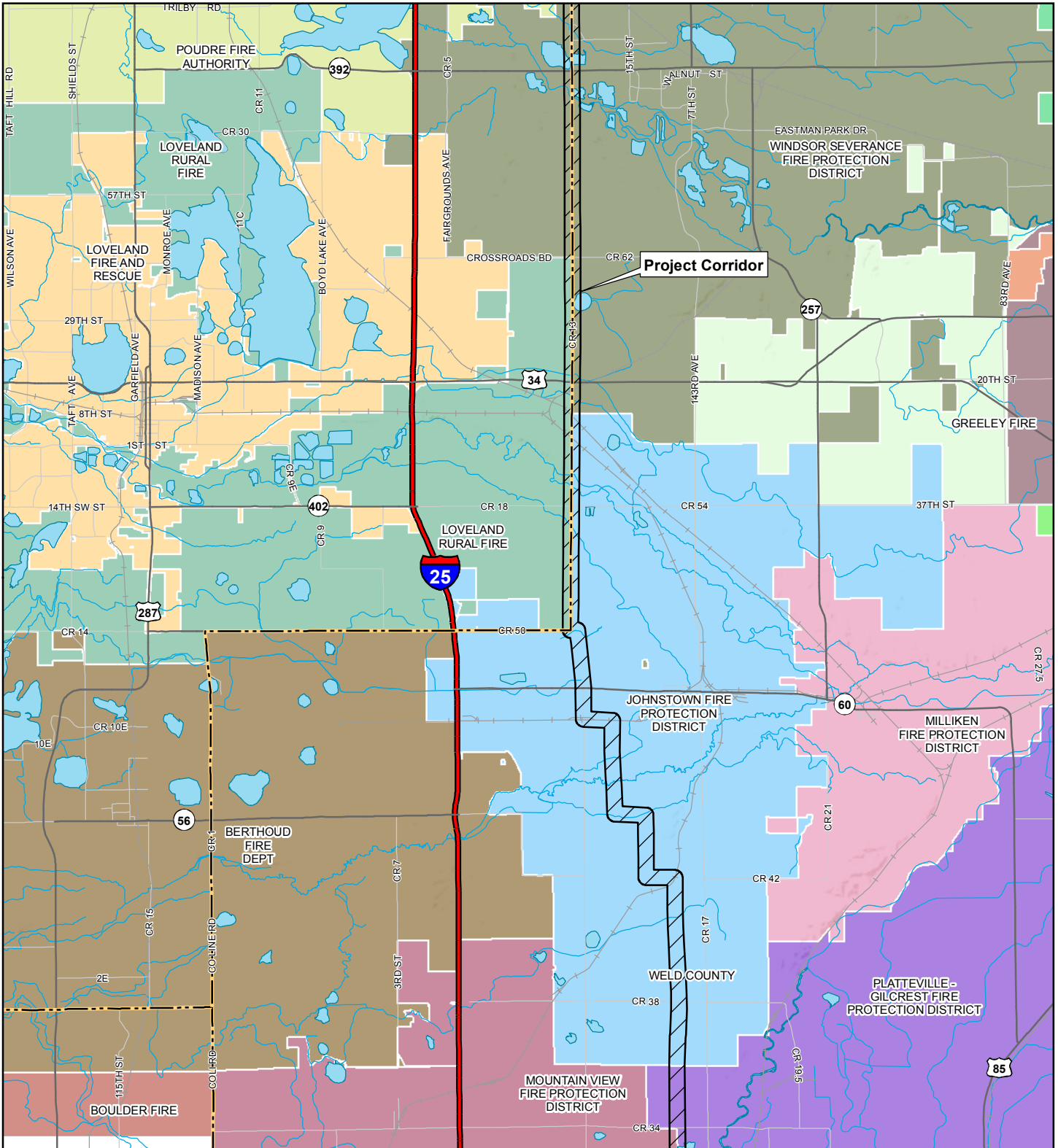
Thank you and for questions, or to coordinate a meeting, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

A handwritten signature in blue ink that reads "John Himyak".

John Himyak
Thornton Water Project Engineer

Thornton Water Project



CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405

5/11/2017



1 inch = 2.25 miles
0 0.5 1 2 Miles

- Project Corridor
- Railroad
- County Boundary
- Lake/Reservoir
- River/Stream/Canal/Ditch

Figure 1
Thornton Water Project Corridor
Fire District Boundaries



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May 15, 2017

Mr. Bernie Covillo
Front Range Fire Rescue
PO Box 130
Milliken, CO 80543-0130

RE: Thornton Water Project/Fire District Coordination Request

Dear Mr. Covillo:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of a buried water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is developing land use permit applications for the Project, and no specific route or alignment has been identified. Thornton has identified a preferred corridor for the water pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with local departments to ensure that department questions are addressed.

The attached Figure 1 shows the Project corridor location where the water pipeline will be located within your fire district boundaries. Approximately 12 miles of the Project corridor is located within the Johnstown Fire District boundaries. Thornton will be seeking approval for the water pipeline under the major land use permit process in Larimer County.

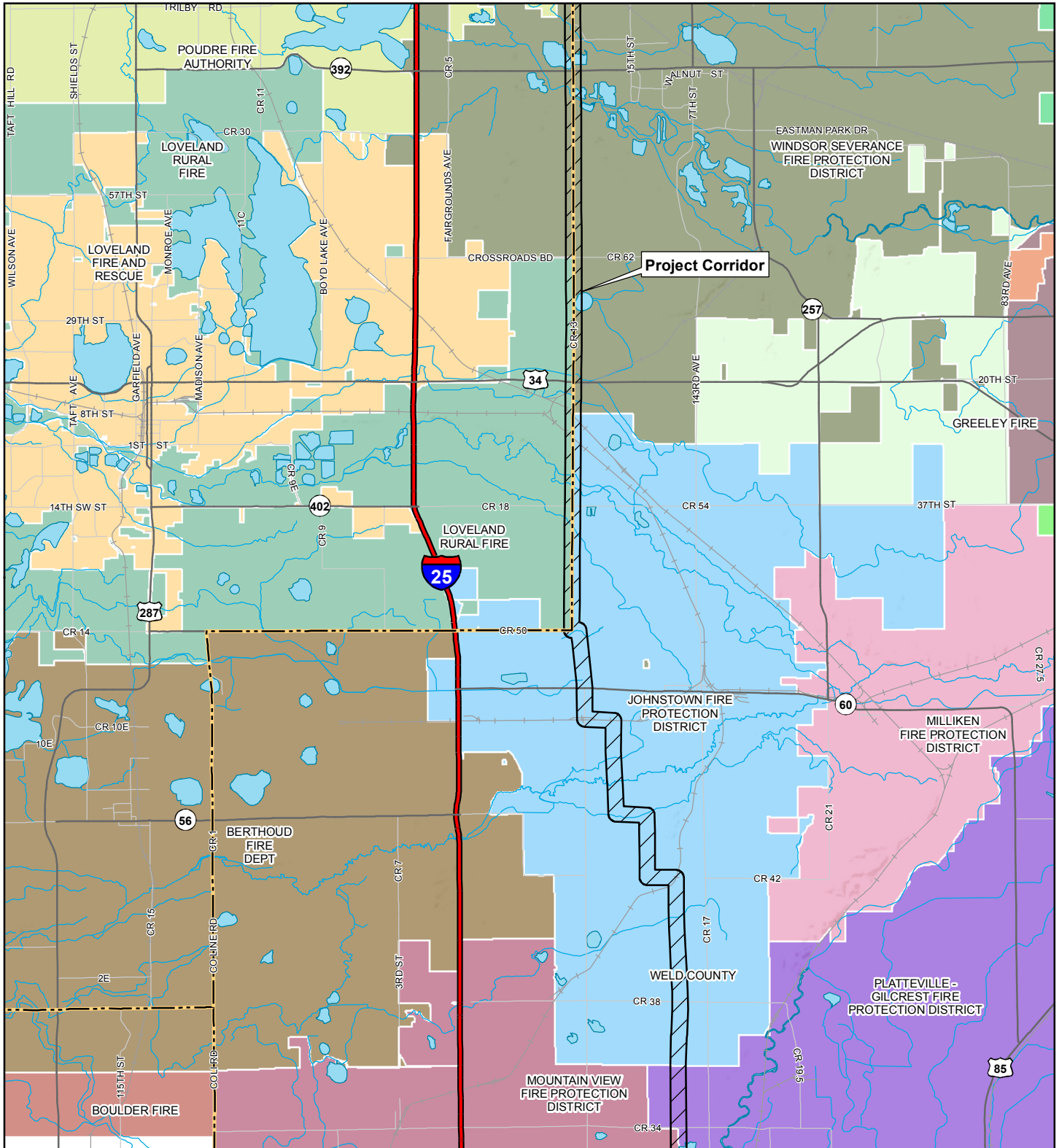
Thank you and for questions, or to coordinate a meeting, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

A handwritten signature in blue ink, appearing to read "John Himyak", written over a light blue horizontal line.

John Himyak
Thornton Water Project Engineer

Thornton Water Project



CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405

5/11/2017



1 inch = 2.25 miles
0 0.5 1 2 Miles

- Project Corridor
- Railroad
- County Boundary
- Lake/Reservoir
- River/Stream/Canal/Ditch

Figure 1
Thornton Water Project Corridor
Fire District Boundaries



Infrastructure Maintenance Center
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Thornton Water Project
720-977-6700
Fax: 720-977-6202

May 15, 2017

Ms. Carie Dann
Loveland Fire Rescue Authority
410 E. 5th St.
Loveland, CO 80537

RE: Thornton Water Project/Fire District Coordination Request

Dear Ms. Dann:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of a buried water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is developing land use permit applications for the Project, and no specific route or alignment has been identified. Thornton has identified a preferred corridor for the water pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with local departments to ensure that department questions are addressed.

The attached Figure 1 shows the Project corridor location where the water pipeline will be located within your fire district boundaries. Approximately six miles of the Project corridor is located within the Loveland Fire Rescue Authority boundaries. Thornton will be seeking approval for the water pipeline under the major land use permit process in Larimer County.

Thank you and for questions, or to coordinate a meeting, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

A handwritten signature in blue ink that reads "John Himyak".

John Himyak
Thornton Water Project Engineer

Thornton Water Project

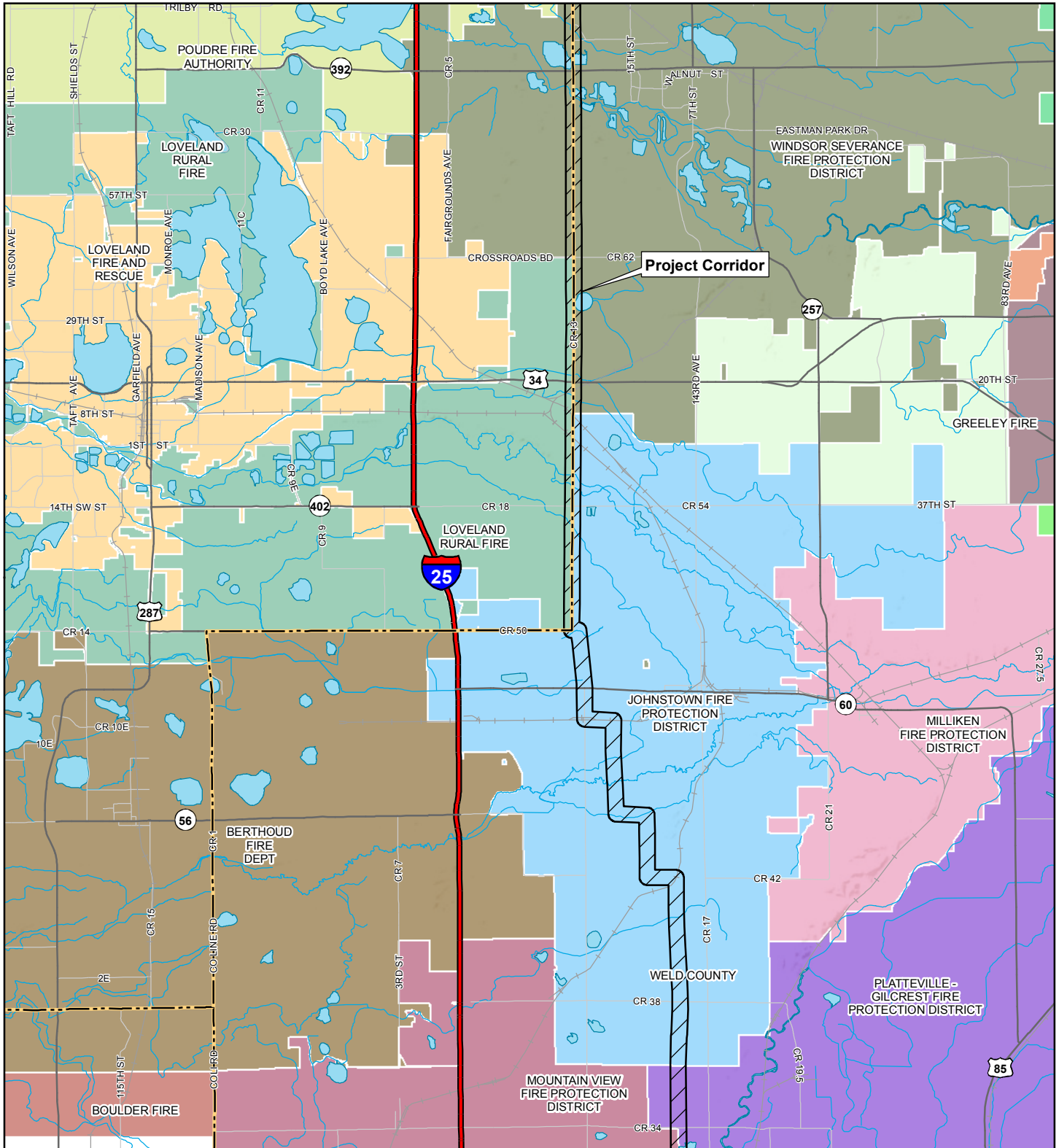


Figure 1
Thornton Water Project Corridor
Fire District Boundaries



CITY OF THORNTON
 COLORADO

12450 WASHINGTON ST
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5/11/2017



1 inch = 2.25 miles
 0 0.5 1 2 Miles

- Project Corridor
- Railroad
- County Boundary
- Lake/Reservoir
- River/Stream/Canal/Ditch



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Fax: 720-977-6202

May 15, 2017

Loveland Rural Fire Protection District
1423 W. 29th St.
Loveland, CO 80538-2403

RE: Thornton Water Project/Fire District Coordination Request

To Whom It May Concern:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of a buried water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is developing land use permit applications for the Project, and no specific route or alignment has been identified. Thornton has identified a preferred corridor for the water pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with local departments to ensure that department questions are addressed.

The attached Figure 1 shows the Project corridor location where the water pipeline will be located within your fire district boundaries. Approximately six miles of the Project corridor is located within the Loveland Rural Fire Protection District boundaries. Thornton will be seeking approval for the water pipeline under the major land use permit process in Larimer County.

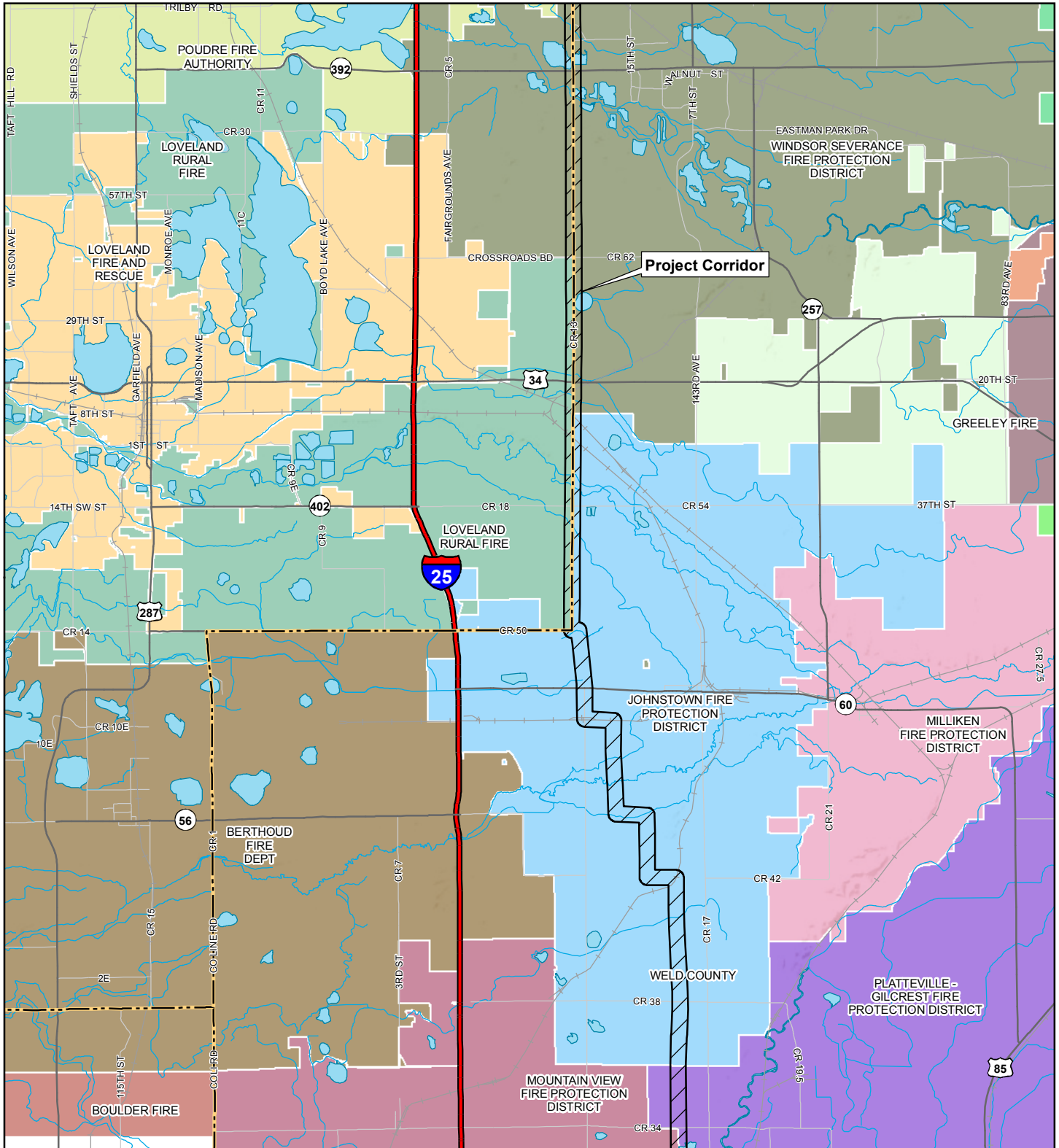
Thank you and for questions, or to coordinate a meeting, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

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John Himyak
Thornton Water Project Engineer

Thornton Water Project



CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405

5/11/2017



1 inch = 2.25 miles
0 0.5 1 2 Miles

- Project Corridor
- Railroad
- County Boundary
- Lake/Reservoir
- River/Stream/Canal/Ditch

Figure 1
Thornton Water Project Corridor
Fire District Boundaries



Infrastructure Maintenance Center
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Thornton Water Project
720-977-6700
Fax: 720-977-6202

May 15, 2017

Nunn Fire Protection District
487 Logan Ave.
Nunn, CO 80648

RE: Thornton Water Project/Fire District Coordination Request

To Whom It May Concern:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of a buried water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is developing land use permit applications for the Project, and no specific route or alignment has been identified. Thornton has identified a preferred corridor for the water pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with local departments to ensure that department questions are addressed.

The attached Figure 1 shows the Project corridor location where the water pipeline will be located within your fire district boundaries. Approximately two miles of the Project corridor is located within the Nunn Fire Protection District boundaries. Thornton will be seeking approval for the water pipeline under the major land use permit process in Larimer County.

Thank you and for questions, or to coordinate a meeting, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

A handwritten signature in blue ink that reads "John Himyak".

John Himyak
Thornton Water Project Engineer

Thornton Water Project

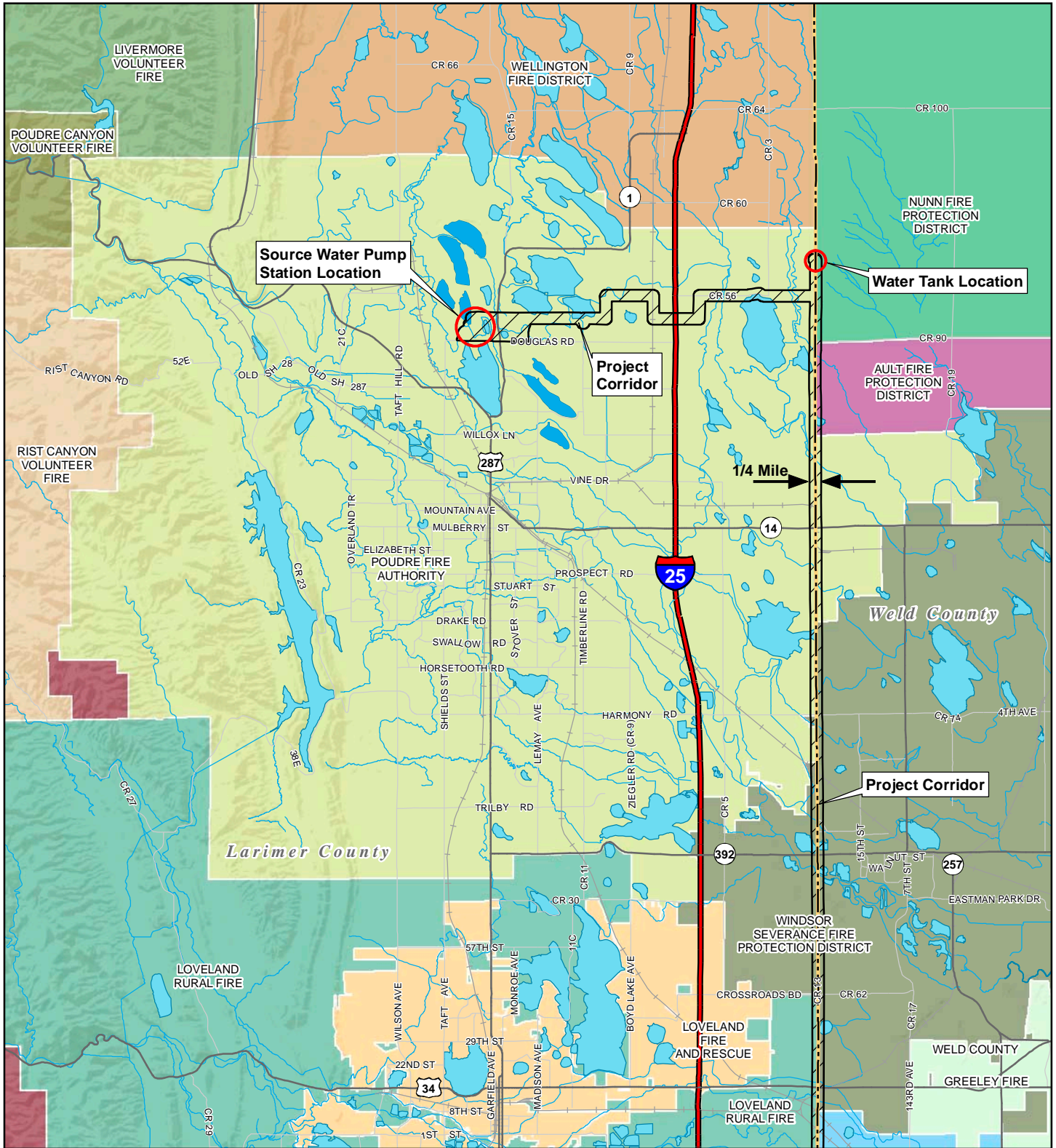


Figure 1
Thornton Water Project Corridor
Fire District Boundaries



CITY OF THORNTON
 COLORADO

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2/7/2017



1 inch = 3 miles
 0 0.75 1.5 3 Miles

- Project Corridor
- Railroad
- County Boundary
- Lake/Reservoir
- River/Stream/Canal/Ditch



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Thornton, CO 80241-2405
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Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

May 15, 2017

Mr. Jim Lynxwiler
Poudre Fire Authority
102 Remington St.
Fort Collins, CO 80524

RE: Thornton Water Project/Fire District Coordination Request

Dear Mr. Lynxwiler:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of a buried water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.


Thornton is developing land use permit applications for the Project, and no specific route or alignment has been identified. Thornton has identified a preferred corridor for the water pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with local departments to ensure that department questions are addressed.

The attached Figure 1 shows the Project corridor location where the water pipeline will be located within your fire district boundaries. Approximately 20 miles of the Project corridor, one of the pump stations, and the water tank are located within the Poudre Fire Authority boundaries. Thornton will be seeking approval for the water pipeline and water tank under the major land use permit process in Larimer County. The specific location of the pump station will be determined during final design and will be permitted separately by Larimer County under a Site Plan Review. The pump station will be an unmanned facility, and is currently expected to be approximately 10,000 square feet to house mechanical and electrical equipment for water delivery. Thornton will work with Poudre Fire Authority during the design process to ensure that the pump station meets code and other applicable requirements.

Thank you and for questions, or to coordinate a meeting, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,


John Himyak
Thornton Water Project Engineer

Thornton Water Project

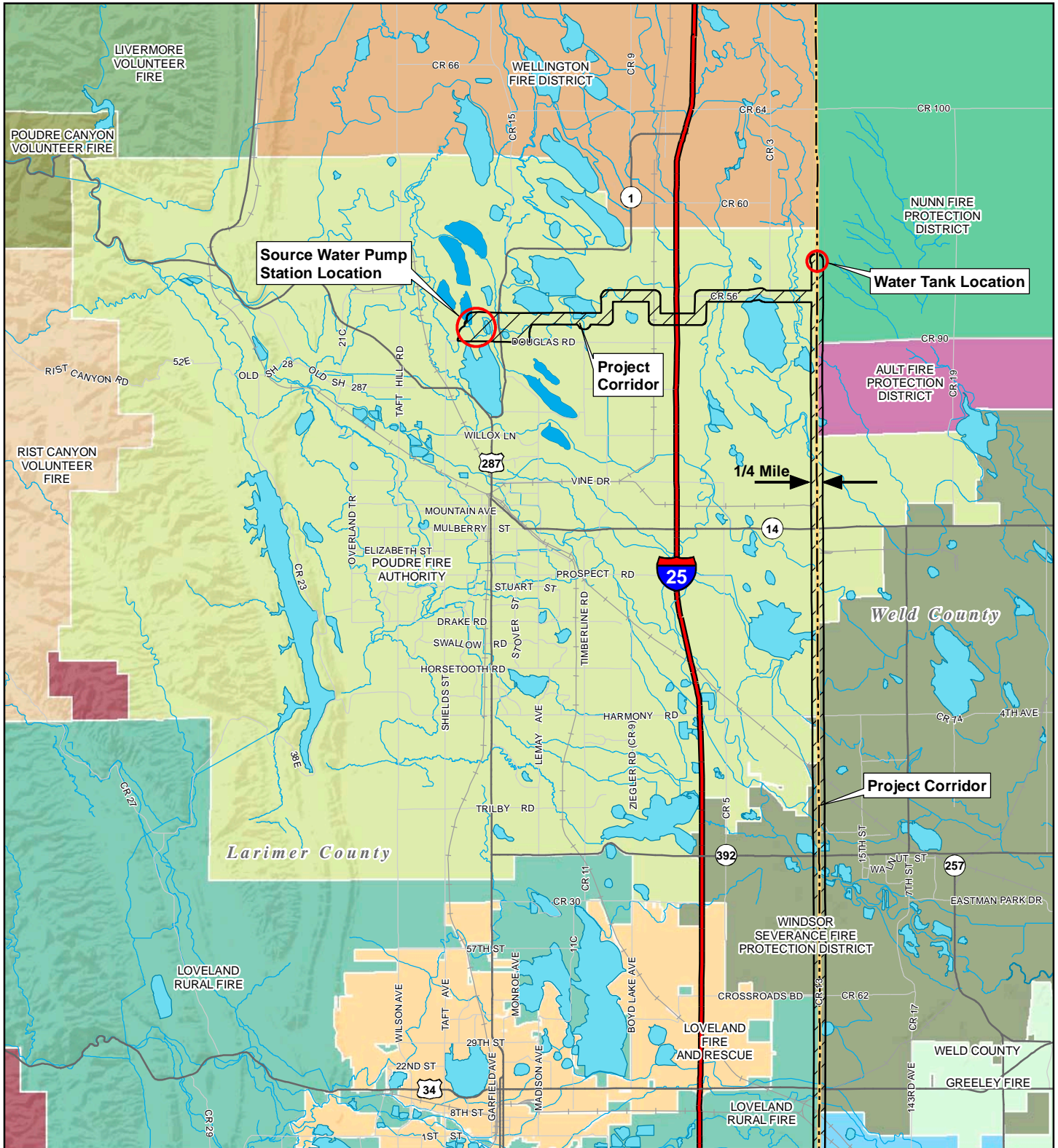


Figure 1
Thornton Water Project Corridor
Fire District Boundaries



CITY OF THORNTON
 COLORADO

12450 WASHINGTON ST
 THORNTON, CO 80241-2405

2/7/2017



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- Project Corridor
- Railroad
- County Boundary
- Lake/Reservoir
- River/Stream/Canal/Ditch



Infrastructure Maintenance Center
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Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

May 15, 2017

Mr. Mike Blackwill
Windsor Severance Fire Rescue
100 7th St.
Windsor, CO 80550

RE: Thornton Water Project/Fire District Coordination Request

Dear Mr. Blackwill:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of a buried water transmission pipeline, two pump stations, a water tank, and other necessary facilities. The pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is developing land use permit applications for the Project, and no specific route or alignment has been identified. Thornton has identified a preferred corridor for the water pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with local departments to ensure that department questions are addressed.

The attached Figure 1 shows the Project corridor location where the water pipeline will be located within your fire district boundaries. Approximately 10.5 miles of the Project corridor is located within the Windsor Severance Fire Rescue boundaries. Thornton will be seeking approval for the water pipeline under the major land use permit process in Larimer County.

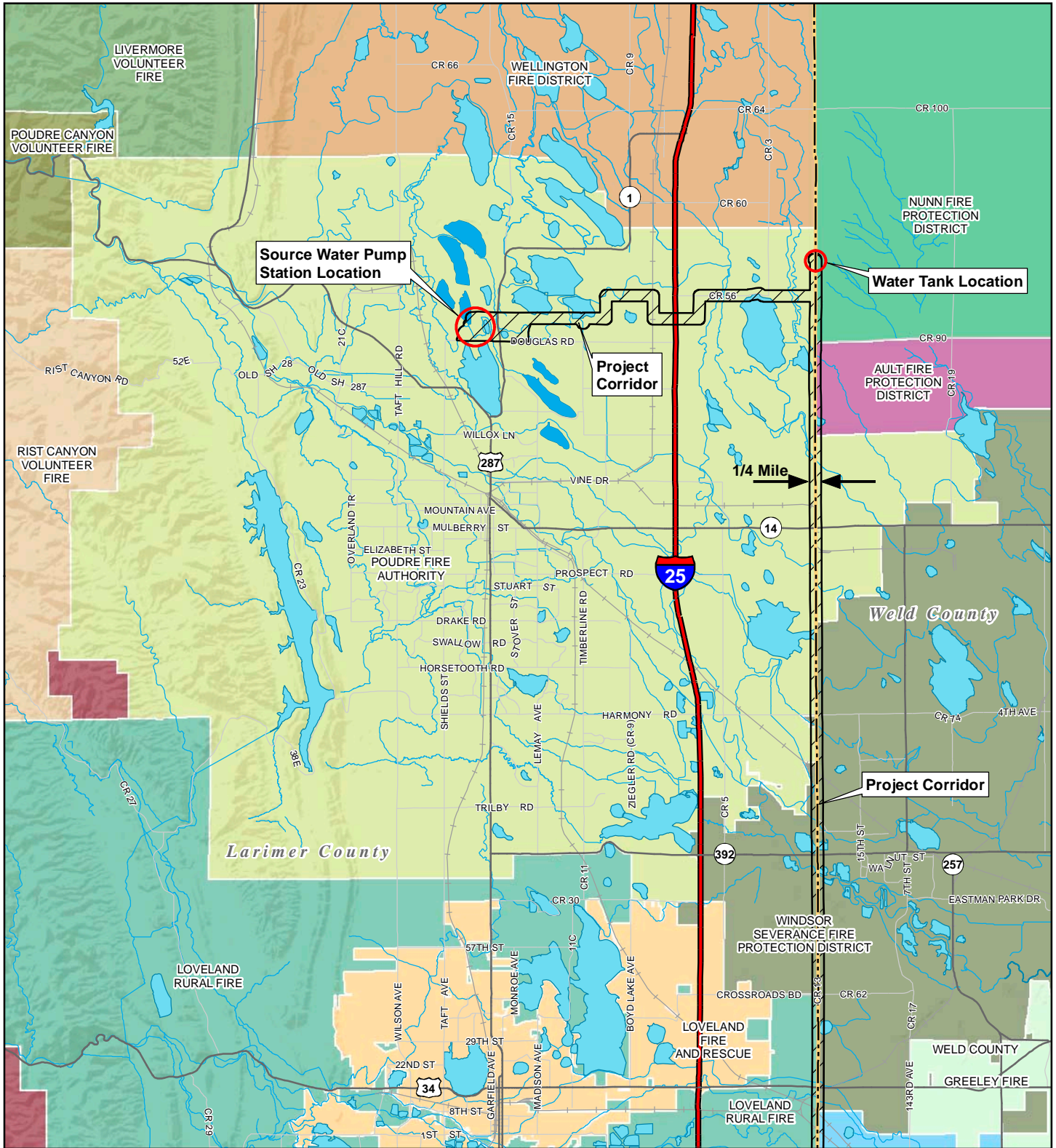
Thank you and for questions, or to coordinate a meeting, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

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John Himyak
Thornton Water Project Engineer

Thornton Water Project



CITY OF THORNTON
COLORADO

12450 WASHINGTON ST
THORNTON, CO 80241-2405

2/7/2017



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- Project Corridor
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Figure 1
Thornton Water Project Corridor
Fire District Boundaries

Natural Resources Conservation Service



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405
www.thorntonwaterproject.com

Infrastructure Department
Thornton Water Project
720-977-6700
Fax: 720-977-6202

July 7, 2017

USDA-NRCS
Fort Collins Field Office, Suite 116
2150 Center Ave., Bldg. A
Fort Collins, CO 80526

RE: Thornton Water Project / Stakeholder Coordination Request

To Whom It May Concern:

The city of Thornton (Thornton) is contacting stakeholders regarding development of the Thornton Water Project (Project). The Project is a raw water pipeline delivery system that will convey Thornton's existing water rights from the Water Supply and Storage Company in Larimer County to Thornton. Project components include over 70 miles of a buried water transmission pipeline, two pump stations, a one-million-gallon steel above grade water tank, and other necessary facilities. The water pipeline is currently proposed to be a 48-inch diameter pipe.

Thornton is developing land use permit applications for the Project, and no specific route or alignment has been identified. Thornton has identified a preferred corridor for the water pipeline that is typically a quarter-mile wide with variations depending on location and constraints.

Through the land use permit process, various agencies in the area of the Project corridor are likely to be contacted as a "Referral Agency" of Weld County and/or Larimer County to provide review and comment on these permit applications. Thornton is very open to meeting with local offices to ensure that agency questions are addressed.

The attached Figure 1 shows the project corridor in Weld and Larimer counties. The water pipeline will typically include a 90-foot wide work limit for construction, and the pump station and water tank sites will be constructed on approximate two-acre sites. Areas disturbed during pipeline construction will be restored to pre-construction conditions including grade and vegetation. The pump station and water tank sites may include above ground infrastructure, and surfaces for access driveways and parking areas are anticipated to be gravel. Surface drainage best management practices will be implemented during construction and include the application of erosion control techniques. Mitigation measures to minimize impacts in areas subject to greater slope and soil erodibility will be implemented. Water pipeline crossings of jurisdictional waters will implement trenchless means of construction such as tunneling. A subsurface geotechnical investigation of geologic conditions utilizing soil borings will be completed as necessary during design to further determine the subsurface soil conditions and associated geological hazards. Mitigation measures will be further refined during design to meet site-specific geological hazards.

Thank you and for questions, or to coordinate a meeting, please contact me at John.Himyak@cityofthornton.net or 720-977-6264.

Respectfully,

A handwritten signature in black ink, appearing to read "John Himyak", written over a light blue horizontal line.

John Himyak
Thornton Water Project Engineer

