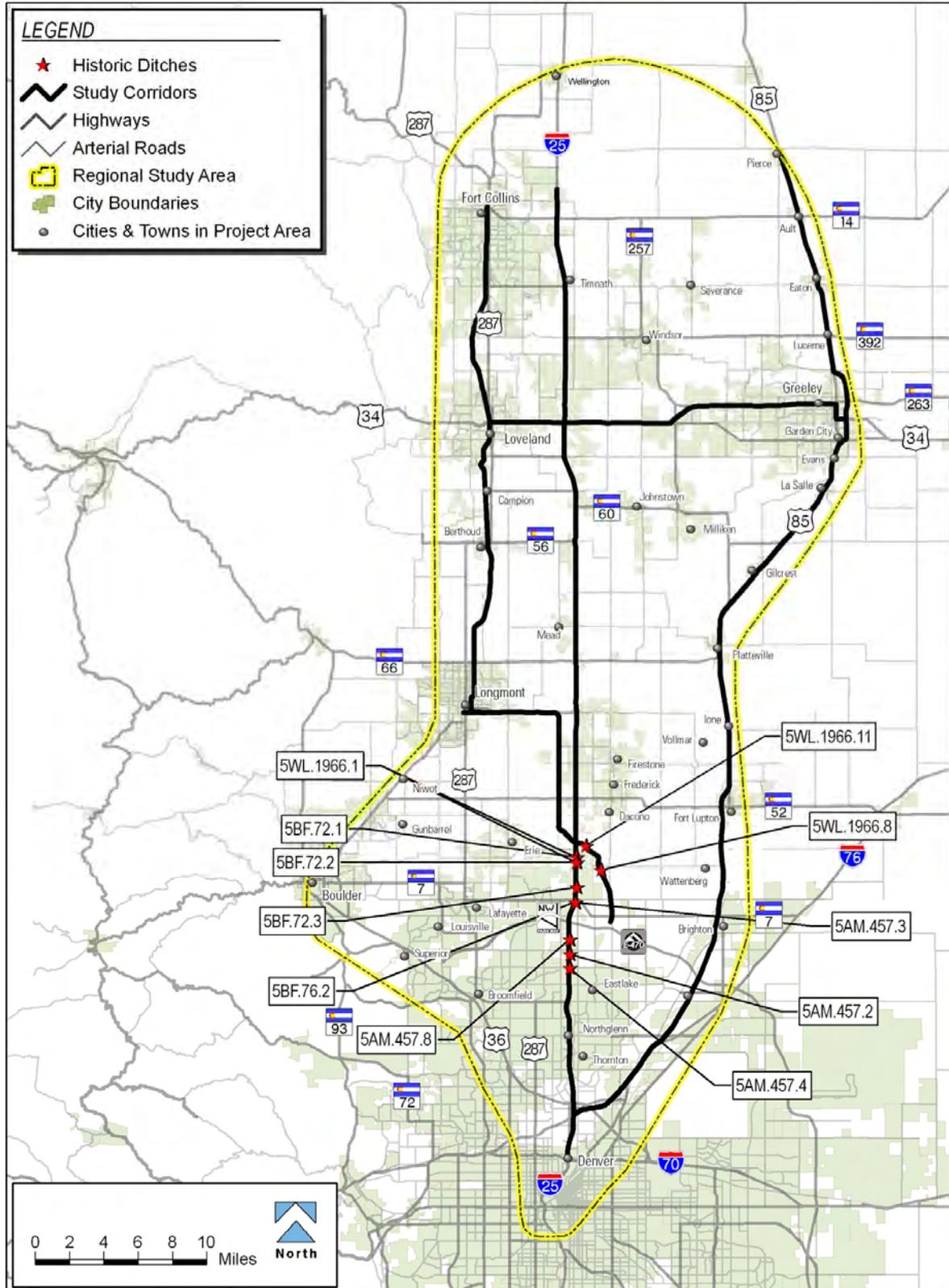


1 Segment 457.8 is no longer functional and has been abandoned. This segment is located east  
2 of I-25 near milepost 226.8. This 1,585 foot long, 26 foot wide concrete lined looping ditch  
3 segment has been abandoned and no longer functions for irrigation. Weeds and rushes fill the  
4 abandoned channel floor and the concrete lining of the bank is cracked and settled in many  
5 places.

6 **Eligibility Determination:** The entire Bull Canal/Standley Ditch was a part of the ambitious,  
7 corporate-developed Standley Lake Irrigation System developed in the early 20<sup>th</sup> Century. The  
8 canal is eligible for listing on the NRHP under Criterion A because of its important association  
9 with the development of water rights and agriculture in northeastern Colorado, and under  
10 Criterion C as an important example of irrigation engineering in the region. Segments  
11 5WL.1966.11 and 5WL.1966.8 also include good examples of concrete siphons which  
12 represent a distinctive method of hydraulic engineering that add to the canal's significance  
13 under Criterion C. Segments 5WL.1966.1, 5WL.1966.11, 5BF72.1, 5BF.72.2, 5BF.72.3, and  
14 5AM457.1 within the project APE retain sufficient integrity of location, setting, feeling, and use  
15 to support the eligibility of the entire linear resource. Resources 5BF.76.2, 5AM.457.3,  
16 5AM.457.4, and 5AM.457.8 were found to lack sufficient integrity to support the eligibility of the  
17 entire linear resource.

1 Figure 3.15-50 5WL.1966, 5BF.72, 5BF.76, 5AM.457 (Bull Canal/Standley Ditch) Segments  
2 intersecting project APE



1 **Effect Determination:**

2 In order to determine the effect to the entire linear resource, impacts to each of the segments  
3 passing through the project APE were assessed. These impact assessments are presented  
4 below, followed by a determination of effect to the entire Bull Canal/Standley Ditch.

5  
6 **Impacts to segment 5WL.1966.1—Package A:** This historic canal is currently conveyed  
7 beneath I-25 and the east frontage road in two places through modern CBCs. Under Package A,  
8 the existing I-25 template would be maintained in this area. The existing box culverts would not  
9 require replacement or modification, and no direct or indirect impacts to the canal would occur.

10  
11 **Impacts to segment 5WL.1966.1 – Package B:** In this area, I-25 would be widened to the  
12 median to contain a new template consisting of three general purpose lanes plus one buffer-  
13 separated managed lane in each direction. The existing east frontage road would be realigned  
14 farther to the east. The proposed transportation improvements in this area would not require  
15 replacement or modification of the existing box culverts, and no direct or indirect impacts to the  
16 canal would occur under Package B.

17 **Impacts to segment 5BF.72.1—Package A:** This historic canal is conveyed beneath I-25 and  
18 the east frontage road through modern CBCs. Under Package A, the I-25 template would be  
19 reconfigured to provide four general purpose lanes in each direction. The proposed  
20 transportation improvements in this area would not require replacement or modification of the  
21 existing box culverts, and no direct or indirect impacts to the canal would occur under Package  
22 A.

23 **Impacts to segment 5BF.72.1—Package B:** This historic canal is conveyed beneath I-25 and  
24 the east frontage road through modern CBCs. In this area, I-25 would be widened to the median  
25 to provide a new template consisting of three general purpose lanes plus one buffer-separated  
26 managed lane in each direction. The existing east frontage road would be retained. The  
27 proposed transportation improvements in this area would not require replacement or  
28 modification of the existing box culverts, and no direct or indirect impacts to the canal would  
29 occur under Package B.

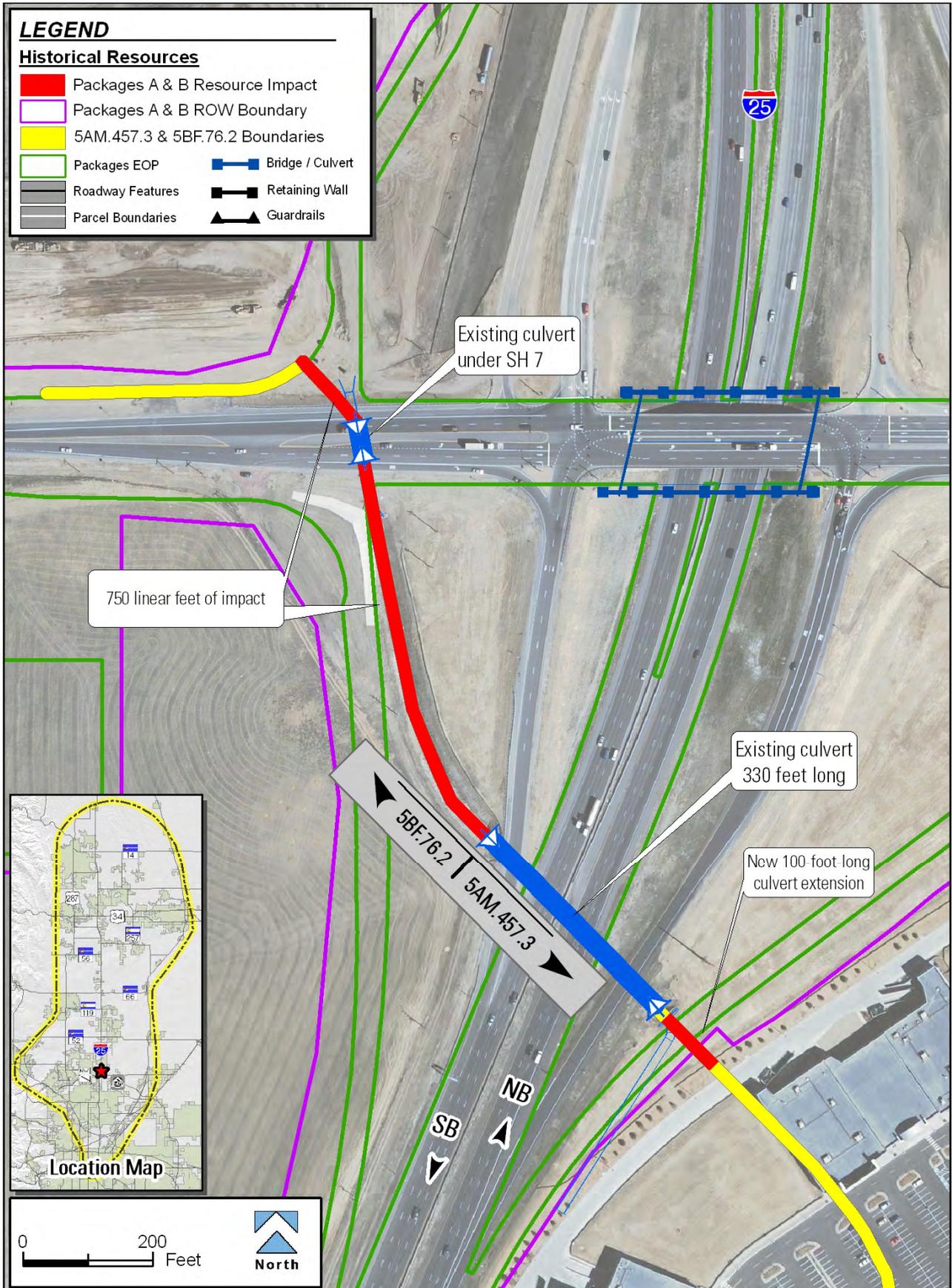
30 **Impacts to segment 5BF.72.2—Package A:** This historic canal is conveyed beneath I-25 and  
31 the east frontage road through modern CBCs. Under Package A, the existing I-25 template  
32 would be maintained in this area. The existing box culverts would not require replacement or  
33 modification, and no direct or indirect impacts to the canal would occur.

34 **Impacts to segment 5BF.72.2—Package B:** This historic canal is conveyed beneath I-25 and  
35 the east frontage road through modern CBCs. In this area, I-25 would be widened to the median  
36 to provide a new template consisting of three general purpose lanes plus one buffer-separated  
37 managed lane in each direction. The existing east frontage road would be retained. The  
38 proposed transportation improvements in this area would not require replacement or  
39 modification of the existing box culverts, and no direct or indirect impacts to the canal would  
40 occur under Package B.

41 **Impacts to segment 5BF.72.3—Package A:** This historic canal is conveyed beneath I-25 and  
42 the east frontage road through modern CBCs. In this area, I-25 would be widened to the  
43 median to provide a new template consisting of four general purpose lanes in each direction.  
44 The existing east frontage road would be retained. The proposed transportation improvements  
45 in this area would not require replacement or modification of the existing box culverts, and no  
46 direct or indirect impacts to the canal would occur under Package A.

- 1 **Impacts to segment 5BF.72.3—Package B:** This historic canal is conveyed beneath I-25  
2 and the east frontage road through modern CBCs. In this area, I-25 would be widened to the  
3 median to provide a new template consisting of four general purpose lanes in each direction.  
4 The existing east frontage road would be retained. The proposed transportation improvements  
5 in this area would not require replacement or modification of the existing box culverts, and no  
6 direct or indirect impacts to the canal would occur under Package B.
- 7 **Impacts to segment 5BF.76.2—Package A:** Package A would require putting the 750 foot  
8 long remainder of the ditch located between the SH 7 pipe outfall and the existing I-25 CBC in  
9 a buried culvert (see **Figure 3.15-51**).
- 10 **Impacts to segment 5BF.76.2—Package B:** Package B would require putting the 750 foot  
11 long remainder of the ditch located between the SH 7 pipe outfall and the existing I-25 CBC in  
12 a buried culvert (see **Figure 3.15-51**).
- 13 **Impacts to segment 5AM.457.2—Package A:** This historic canal is conveyed beneath I-25  
14 and the east frontage road through modern CBCs. Under Package A, the existing I-25  
15 template would be maintained in this area. The existing box culverts would not require  
16 replacement or modification, and no direct or indirect impacts to the canal would occur.
- 17 **Impacts to segment 5AM.457.2—Package B:** This historic canal is conveyed beneath I-25  
18 and the east frontage road through modern CBCs. Under Package B, the I-25 template would  
19 consist of three general purpose lanes plus one buffer-separated managed lane. The portion  
20 of the ditch that currently crosses under the highway and frontage roads is conveyed inside a  
21 CBC. The new roadway would be contained within the current roadway template and no new  
22 disturbance would occur to areas of the ditch located outside the existing culverts. The  
23 integrity of that portion of the historic canal to be placed in a culvert has already been  
24 compromised by original construction of I-25 in the 1960s, and no new direct or indirect  
25 impacts would occur.
- 26 **Impacts to segment 5AM.457.3—Package A:** Package A would result in placing an  
27 additional 100 feet of open ditch into a culvert extension east of the I-25 northbound  
28 off-ramp (see **Figure 3.15-51**).
- 29  
30 **Impacts to segment 5AM.457.3—Package B:** Package B would result in placing an  
31 additional 100 feet of open ditch into a culvert extension east of the I-25 northbound  
32 off-ramp (see **Figure 3.15-51**).

1 Figure 3.15-51 5BF.76.2 and 5AM.457.3 (Bull Canal/Standley Ditch) – Commuter Rail



1 **Impacts to segment 5AM.457.4—Package A:** The ditch is in an area where no improvements are  
2 planned on I-25 in Package A. A permanent water quality basin is planned in proximity to the ditch  
3 but would not result in a direct impact to this feature.  
4

5 **Impacts to segment 5AM.457.4—Package B:** Highway widening of I-25 resulting from  
6 Package B would not result in direct impacts to this ditch. A permanent water quality basin  
7 is planned in proximity to the ditch but would not result in a direct impact to this feature.  
8 There would be no temporary construction impacts to this feature.  
9

10 **Impacts to segment 5AM.457.8—Package A:** The ditch is in a non-improvement  
11 component of Package A and results in no impacts to the ditch.

12 **Impacts to segment 5AM.457.8—Package B:** Package B improvements do not encroach  
13 on the ditch. Temporary construction impacts would be avoided at this site.  
14

15 **Impacts to segment 5WL.1966.11:** The proposed new commuter rail line would pass in a  
16 northwest-southeast alignment across this historic ditch segment. The new rail line would  
17 closely parallel an existing active rail line through this area. The historic ditch has already been  
18 placed in a culvert beneath the existing railroad grade. The existing culvert would be left in  
19 place and no culvert extension should be necessary to accommodate the new additional rail  
20 line. No direct or indirect impacts would therefore occur.

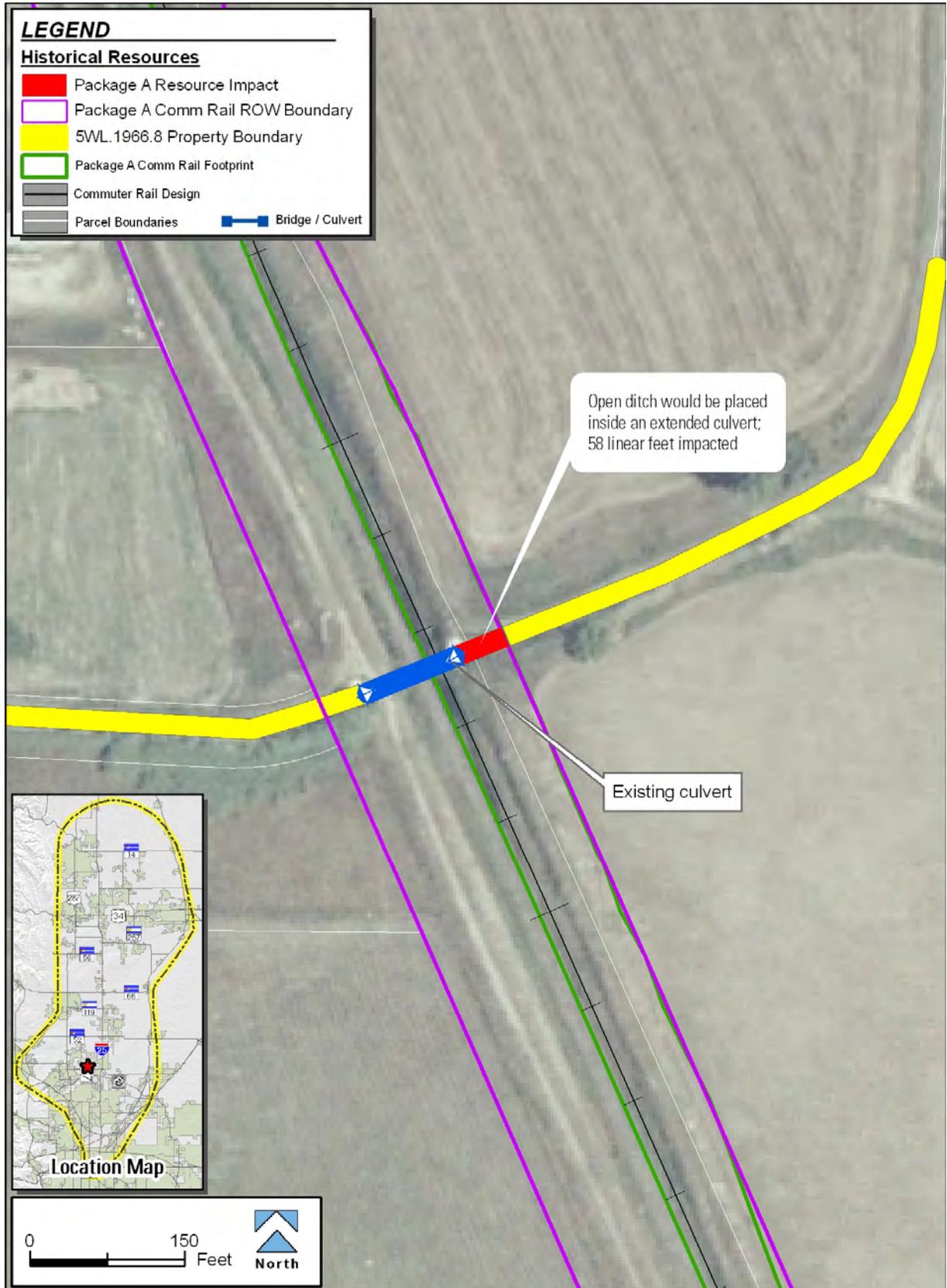
21 **Impacts to segment 5WL.1966.8:** In the vicinity of this historic ditch, the proposed new  
22 commuter rail line would run closely parallel to the east side of an existing active rail line.  
23 The historic ditch has already been placed in a culvert beneath the existing railroad grade.  
24 The existing culvert would be left in place and approximately 58 feet of open ditch would be  
25 placed in a new culvert extending beneath the proposed new commuter rail line (see **Figure**  
26 **3.15-52**). Although a small segment of open ditch would be placed in a culvert, this change  
27 affects only a very small percentage of the entire linear resource.  
28

### 29 **Summary Effect Determination:**

30 **Package A:** A total of 908 linear feet of open ditch would be impacted. Approximately 850 feet  
31 of ditch would be placed inside two culverts at the I-25 and SH 7 interchange where much of  
32 the ditch has already been realigned and runs through existing culverts (BF.76.2 and  
33 5AM.457.3). An additional 58 feet of open ditch (5WL.1966.85) would be placed inside an  
34 extended culvert along the commuter rail. Temporary construction impacts would occur during  
35 culvert installation and highway construction activity at that location. No other direct or indirect  
36 impacts would occur to the remaining seven segments. FHWA, FTA and CDOT have  
37 determined that the Package A improvements would result in *no adverse effect* to the historic  
38 Bull Canal/Standley Ditch (5WL.1966, 5BF.72, 5BF.76, and 5AM.457).

39 **Package B:** A total of 850 feet of open ditch would be placed inside a culvert at one segment  
40 locality (5BF.76.2 and 5AM.457.3). Impacts would be identical to Package A. Temporary  
41 construction impacts would occur during culvert installation and highway construction activity  
42 at that location. No other direct or indirect impacts would occur to the remaining seven  
43 segments. FHWA, FTA and CDOT have determined that Package B improvements would  
44 result in *no adverse effect* to the historic Bull Canal/Standley Ditch (5WL.1966, 5BF.72,  
45 5BF.76, and 5AM.457).

1 Figure 3.15-52 5WL.1966.8 (Bull Ditch segment of the Bull Canal/Standley Ditch) –  
2 Commuter Rail



1 **5AM.1291.3 (Farmers Highline Canal/Niver Canal)**

2 **Resource Description:** This historic canal segment runs perpendicular to, and crosses,  
3 I-25. The earthen ditch is approximately 20 feet wide. The portion of the ditch that crosses  
4 under the highway was altered when I-25 was built in the 1960s, when the canal channel was  
5 placed under a 38-foot long bridge. The entire ditch is approximately 40 miles long. The  
6 documented segment in the project APE (5AM.1291.3) is 2,234 feet long. Grassy vegetation  
7 with sparse riparian growth exists along both banks of the ditch in many areas. The  
8 surrounding area includes residential development.

9 **Eligibility Determination:** The entire length of the canal (5AM.1291) in Adams County is  
10 eligible for the NRHP under Criterion A for its important association with the development of  
11 water rights and agriculture in Adams County. The canal has been in operation for over 100  
12 years. The segment within the project APE (5AM.1291.3) retains sufficient integrity of location,  
13 setting, feeling, and use to support the eligibility of the entire linear resource.

14 **Effect Determination—Package A:** I-25 currently passes over this historic canal via an  
15 existing 123 foot wide by 38 foot long bridge structure. Under Package A, the existing I-25  
16 template would be maintained in this area. The existing bridge would not require replacement  
17 or modification, and no direct or indirect impacts to the canal would occur. FHWA, FTA and  
18 CDOT therefore have determined that Package A would result in *no historic properties*  
19 *affected* with respect to this historic resource.

20 **Effect Determination—Package B:** Under Package B, the existing bridge over the historic  
21 canal would be replaced with a new 73 foot long, 210 foot wide pre-cast pre-stressed girder  
22 bridge, to carry a new template consisting of three general purpose lanes plus one buffer-  
23 separated managed lane. The bridge piers would be placed outside the limits of the historic  
24 canal, and no direct or indirect impacts would occur. FHWA, FTA and CDOT therefore have  
25 determined that Package B would result in *no historic properties affected* with respect to this  
26 historic resource.

27 **5WL.322 (White-Plumb Farm)**

28 **Resource Description:** The White-Plumb Farm was established in the late 1800s. It is located at  
29 955 39<sup>th</sup> Avenue in Greeley. The homestead was originally part of a 160-acre Timber Culture Act  
30 claim acquired in 1881 by Civil War veteran Charles White. The Plumb family moved to the farm in  
31 1923 and lived there until 1997. This farm has been designated a Centennial Farm by the  
32 Colorado Historical Society.

33 **Eligibility Determination:** Based on its important association with agriculture in Weld County  
34 during the 19th century, this homestead is eligible for listing on the NRHP under Criterion A.

35 **Effect Determination—Package A:** None of the proposed improvements associated with  
36 Package A are close to this historic property, and no direct or indirect impacts would occur.  
37 FHWA, FTA and CDOT therefore have determined that Package A would result in *no historic*  
38 *properties affected* with respect to this historic resource.

39 **Effect Determination—Package B:** None of the proposed improvements associated with  
40 Package B are close to this historic property, and no direct or indirect impacts would occur.  
41 FHWA, FTA and CDOT therefore have determined that Package B would result in *no historic*  
42 *properties affected* with respect to this historic resource.

1 **E-470 TO US 36**

2 **5AM.2073 (North Glenn First Filing)**

3 **Resource Description:** This historic post-World War II residential subdivision (5AM.2073) is  
4 located on the east side of I-25. It is bounded on the south by East 104<sup>th</sup> Avenue and on the  
5 east by Washington Street. It is significant as an integral and important element of the master  
6 planned community of Northglenn. North Glenn was developed by the Perl-Mack Construction  
7 Company, aided by the Denver-based planning firm of Harman, O'Donnell, Henninger and  
8 Associates, and was envisioned as serving a population of 15,000 with balanced areas for  
9 housing, school, parks, churches, shopping centers, municipal facilities, and light industry. The  
10 original plan for Northglenn included five interconnected neighborhoods containing single-  
11 family dwellings on 1,526 acres. The residential neighborhoods featured winding streets  
12 designed for privacy and child safety. The North Glenn First Filing was the first of the  
13 neighborhood areas to be laid out and filled with houses. Homes in the North Glenn  
14 development were recognized in the late 1950s and the early 1960s with awards for quality  
15 design, planning, and comfort. The North Glenn First Filing contains approximately 183 single  
16 family dwellings constructed shortly after the subdivision was platted in April 1959. The  
17 majority of these dwellings are single story brick or brick veneer-clad Ranch-style houses with  
18 attached garages.

19 **Eligibility Determination:** The North Glenn First Filing subdivision is considered eligible for  
20 the NRHP under Criterion A as a major element in the award winning, master planned self-  
21 sufficient community of Northglenn (Note: the 1959 subdivision plat identifies the development  
22 as "North Glenn" even though the entire community was originally called "Northglenn"). This  
23 subdivision is also associated with a historically significant trend of post-World War II urban  
24 growth in the Denver metropolitan area.

25  
26 **Effect Determination—Package A:** Under Package A, no changes are planned through this  
27 portion of I-25. No direct impacts would therefore occur.

28 Noise levels caused by I-25 highway traffic would increase one to two decibels in the future  
29 but would not reach impact levels. Much of the subdivision is located away from the mainline  
30 highway lanes, closer to I-25 entrance ramps associated with the interchange at 104<sup>th</sup> Avenue.  
31 The subdivision would experience lower noise levels than areas located immediately adjacent  
32 to the I-25 travel lanes. An existing noise wall extends south from 112<sup>th</sup> Avenue to almost 104<sup>th</sup>  
33 Avenue into the First Filing area and ends at the end of the northbound entrance ramp. Noise  
34 impacts would not be great enough to diminish the qualities that make the subdivision  
35 historically significant.

36 FHWA, FTA and CDOT therefore have determined that the Package A improvements would  
37 result in *no adverse effect* to this historic resource.

38 **Effect Determination—Package B:** Under Package B, managed lanes would be  
39 incorporated within the center of a widened I-25 highway footprint within the existing CDOT  
40 right-of-way. To accommodate stormwater and municipal separate stormwater sewer system  
41 (MS4) requirements, a sediment pond would be placed between the I-25 pavement and the  
42 subdivision boundary. No direct impacts would result from these improvements. Indirect  
43 effects (primarily noise) are the same as with Package A.

44 FHWA, FTA and CDOT have determined that the Package B improvements would result in *no*  
45 *adverse effect* to this historic resource.

1 **5AM.2074 (North Glenn Second Filing)**

2 **Resource Description:** This historic post-World War II residential subdivision (5AM.2074) is  
3 located on the east side of I-25 and lies directly north of the North Glenn First Filing subdivision.  
4 The Second Filing subdivision is bounded on the east by Washington Street and on the north by  
5 East 112<sup>th</sup> Avenue. It is significant as an integral and important element of the master planned  
6 community of Northglenn, developed in 1959 by the Perl-Mack Construction Company, aided by  
7 the Denver-based planning firm of Harman, O'Donnell, Henninger and Associates, and was  
8 envisioned as serving a population of 15,000 with balanced areas for housing, school, parks,  
9 churches, shopping centers, municipal facilities, and light industry. The original plan for Northglenn  
10 included five interconnected neighborhoods containing single-family dwellings on 1,526 acres. The  
11 residential neighborhoods featured winding streets designed for privacy and child safety. The  
12 North Glenn First Filing was the first of the neighborhood areas to be laid out and filled with  
13 houses. Homes in the North Glenn development were recognized in the late 1950s and the early  
14 1960s with awards for quality design, planning, and comfort. The North Glenn Second Filing  
15 contains approximately 882 single family dwellings constructed shortly after the subdivision was  
16 platted in June, 1959.

17 **Eligibility Determination:** The North Glenn First Filing subdivision is considered eligible for the  
18 NRHP under Criterion A as a major element in the award winning, master planned self-sufficient  
19 community of Northglenn (Note: the 1959 subdivision plat identifies the development as "North  
20 Glenn" even though the entire community was originally called "Northglenn"). This subdivision is  
21 also associated with a historically significant trend of post-World War II urban growth in the Denver  
22 metropolitan area.  
23

24 **Effect Determination—Package A:** Under Package A, improvements are planned through this  
25 portion of I-25. No direct impacts would therefore occur.

26 Noise levels caused by I-25 highway traffic would increase one to two decibels in the future and  
27 would reach impact levels in the No-Action Alternative as well as Package A; however, the Second  
28 Filing area is currently protected from excessive noise by noise barriers located along I-25.  
29 Additionally, a new noise wall is recommended to extend north of the Second Filing area.

30 FHWA, FTA and CDOT have determined that the Package A improvements would result in *no*  
31 *adverse affect* to this historic resource.

32 **Effect Determination—Package B:** Under Package B, managed lanes would be incorporated  
33 within the center of a widened I-25 highway footprint within the existing CDOT right-of-way. To  
34 accommodate stormwater and MS4 requirements, sediment ponds would be placed selectively in  
35 areas situated between I-25 pavement and the subdivision boundary. No direct impacts would  
36 occur.

37 Noise levels caused by I-25 highway traffic would increase one to two decibels in the future and  
38 would reach impact levels in the No Action Alternative as well as Package B; however, the Second  
39 Filing area is currently protected from excess noise by noise barriers located along I-25.  
40 Additionally, a new noise wall is recommended farther north of the Second Filing area. These noise  
41 impacts would not substantially diminish the qualities that make the subdivision NRHP-eligible. The  
42 visual impact of the sediment ponds would not indirectly affect neighboring homes enough to  
43 diminish the qualities that render this subdivision NRHP-eligible.

44 FHWA, FTA and CDOT have determined that the Package B improvements would result in *no*  
45 *adverse affect* to this historic resource.

### 3.15.2.4 PACKAGE A TRANSIT COMPONENTS

The transit components of Package A would generally affect historic resources due to the location of a new alignment for the commuter rail component. Specific consequences related to each transit component are described below.

#### **COMMUTER RAIL: FORT COLLINS TO LONGMONT**

There would be no direct effect to any historic structures within this segment as the alignment follows the existing BNSF Railroad alignment. Between the north end of the regional study area and the Colorado State University (CSU) station, the existing track would be used. There would be one additional set of tracks to the east within the existing railroad right-of-way from CSU in Fort Collins south to North Longmont. There are 11 historic properties in this component of commuter rail.

#### **5LR.11330 (Public Service Company of Colorado – Fort Collins Substation)**

**Resource Description:** This structure, located at 128 W. Prospect Road in Fort Collins, was built in the 1920s. It represents the first generation of power facility construction after Public Service Company consolidated their control over delivery and transmission across Colorado.

**Eligibility Determination:** This structure is significant under Criterion A for its role in distribution of electrical power to Fort Collins and the Colorado State University campus. It is also architecturally significant (Criterion C) as a good example of an early twentieth century power facility.

**Effect Determination—Package A:** There would be no direct effect to this property (see **Figure 3.15-53**). Indirect effects include a change the visual environment due to the construction of a retaining wall that will be built on the adjacent railroad right-of-way. There would also be additional train traffic on the nearby railway tracks under Package A, creating minor noise and vibration increases over current levels, but not to a level that would impair the architectural qualities of this commercial/industrial building. Noise levels are expected to increase 1dBA over existing conditions.

The proposed transportation improvements would not substantially diminish or alter the architectural or setting characteristics that render the property eligible for the NRHP. FHWA, FTA and CDOT therefore have determined that Package A commuter rail improvements would result in *no adverse effect* to the resource.

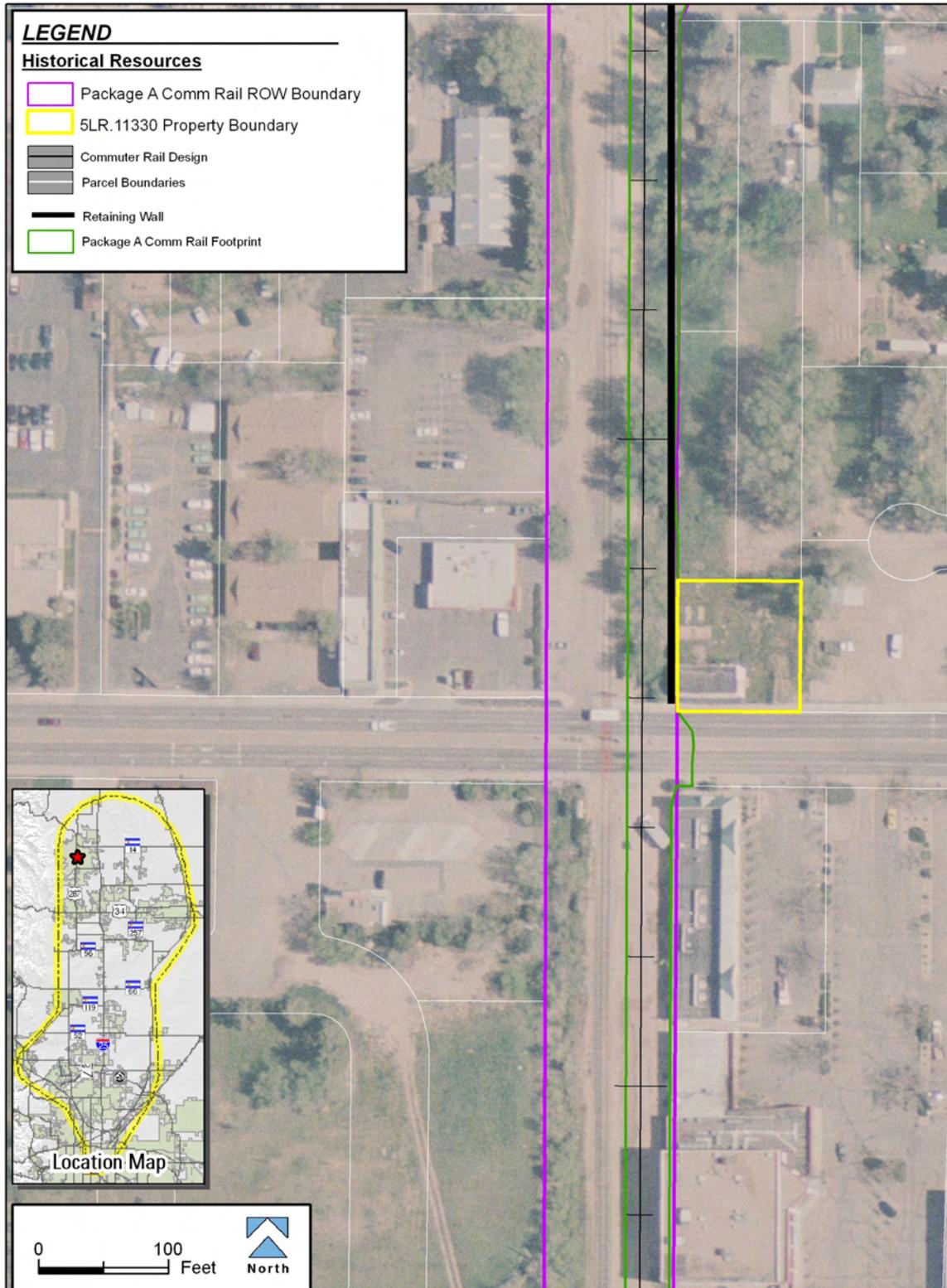
#### **5LR.10819.2 (Larimer County Canal No. 2)**

**Resource Description:** The Larimer County Canal No.2 was constructed in 1873. The 3,204 foot segment crosses underneath the existing BNSF RR south of Drake Road in Fort Collins. The ditch then turns south, parallel to the railroad for a distance of 2,731 feet before returning to an easterly course. The ditch is in part concrete lined, and has been extensively realigned and portions placed inside a pipe along the railway.

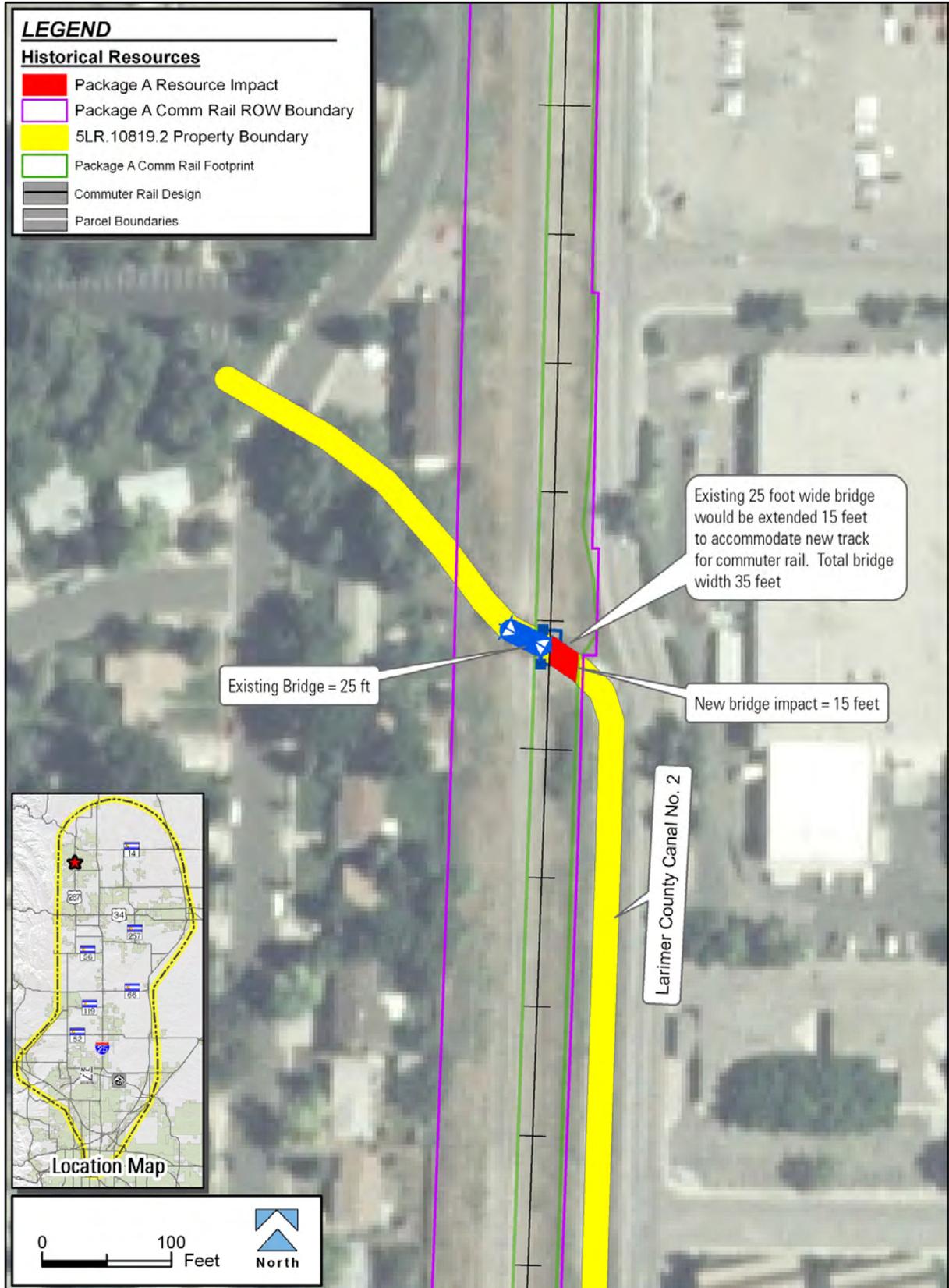
**Eligibility Determination:** The ditch segment 5LR.10819.2 no longer retains its integrity of location and therefore does not support the eligibility of the entire linear resource.

**Effect Determination—Package A:** The existing 25 foot wide bridge would be extended east approximately 15 feet over open ditch to accommodate new track for Package A commuter rail (see **Figure 3.15-54**). Because the qualities that make the entire resource NRHP-eligible have already been compromised by construction of the BNSF RR and Package A modifications are minor in relative extent, FHWA, FTA and CDOT therefore have determined that Package A would result in *no adverse effect* to the Larimer County Canal No.2.

1 Figure 3.15-53 5LR.11330 (Public Service Company of Colorado-Fort Collins  
2 Sub-station) – Package A Commuter Rail



1 Figure 3.15-54 5LR.10819.2 (Larimer County Canal No.2) – Package A



2

1 **5LR.10681.1 (New Mercer Ditch)**

2 **Resource Description:** The New Mercer Ditch (5LR.10681) was constructed in 1870 and is  
3 one of the oldest ditches in the Fort Collins area. The entire ditch is 15.6 miles long. This  
4 segment is a 1.1 mile long unlined ditch. Where intact, the ditch is 26 feet wide and 10 feet  
5 deep. The original ditch crossed under the railroad but in the mid 1980s it was realigned to run  
6 west of the BNSF Railroad between Horsetooth and Harmony Roads. The ditch now crosses  
7 underneath the railroad in a corrugated steel pipe south of Harmony Road and discharges into  
8 Mail Creek

9  
10 **Eligibility Determination:** The entire ditch is NRHP-eligible under Criterion A because of its  
11 important role in the irrigation and agricultural history of the area and remains in use today.  
12 Segment 10681.1 has been realigned and modified by culverts so that it no longer retains  
13 qualities that support the eligibility of the entire resource.

14  
15 **Effects Determination—Package A:** No portion of the ditch would be impacted by the  
16 commuter rail improvements in Package A, therefore, FHWA, FTA and CDOT have  
17 determined that Package A would result in *no historic properties affected*.

18 **5LR.488 (Colorado and Southern Railway Depot / Loveland Depot)**

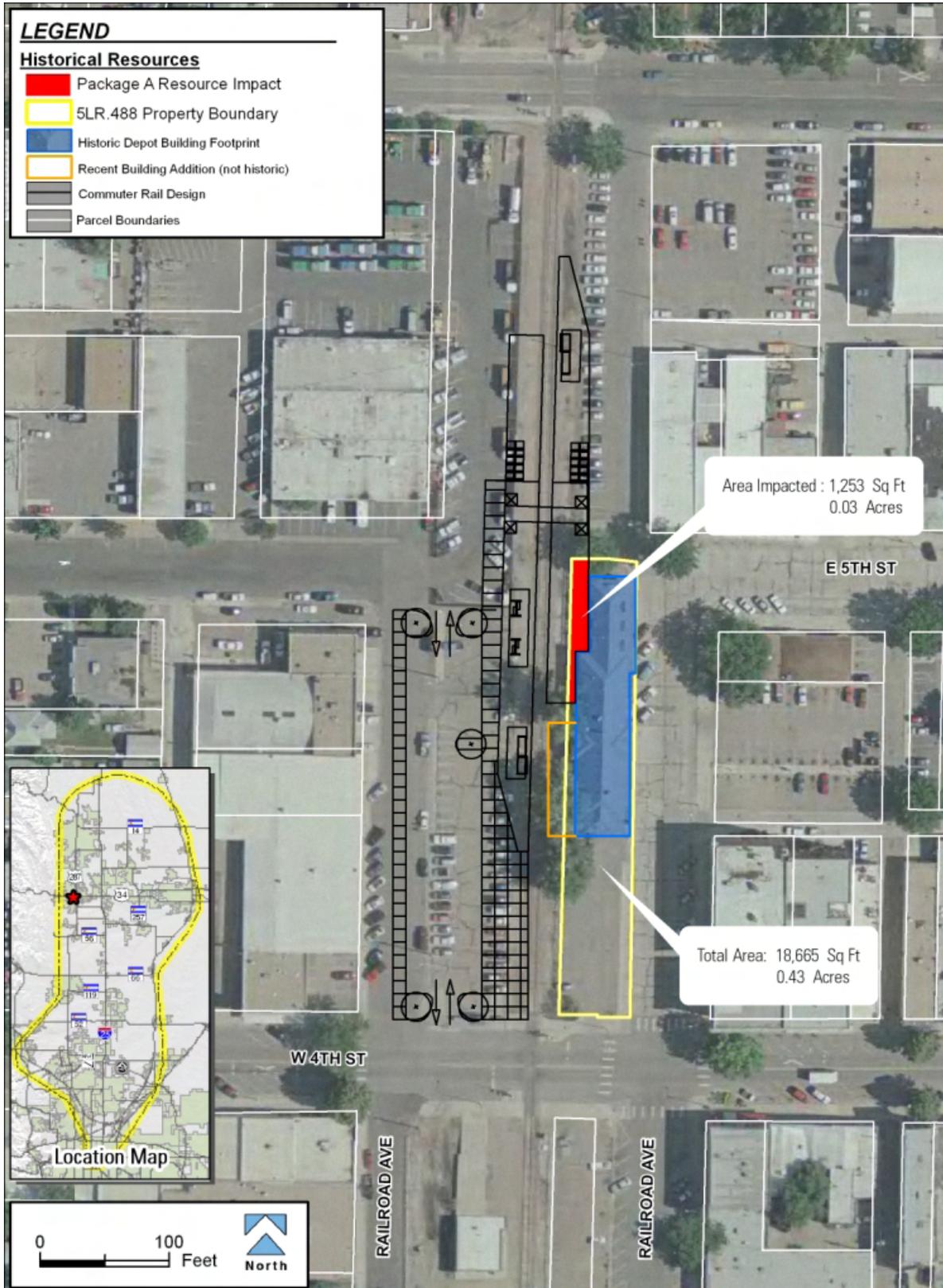
19 **Resource Description:** The Loveland Depot is located at 405 – 409 Railroad Ave. in  
20 Loveland. It was built in 1902 by the Colorado and Southern Railway Company which was the  
21 successor, in 1898, to the Colorado Central Railroad which originally laid tracks through  
22 Loveland in 1877. Loveland, an agricultural community, was dependent on the railroad for its  
23 economic survival and the depot was critical for efficient movement of freight and passengers.

24 **Eligibility Determination:** This structure is significant under Criterion A for its role in rail  
25 transportation in northern Colorado. It is also architecturally significant under Criterion C as a  
26 good example of an turn-of-the-century depot.

27 **Effect Determination—Package A:** Although there would be direct effect to the property,  
28 there would be no direct effect to the structure (see **Figure 3.15-55**). A concrete platform  
29 would be built between the station and the tracks. The platform's dimension would be 27' wide  
30 by 350' long. This platform would encroach onto the depot parcel and would be located  
31 adjacent to the west side of the depot affecting 0.3 acre of the historic property. The  
32 construction of this platform adjacent to the depot is consistent with the historic use of the train  
33 depot and would provide a direct transition from the depot to the arriving and departing trains.  
34 This positioning of the platform would provide impetus for recapturing the original use of the  
35 structure as a train depot. The depot is currently used as a restaurant. Other indirect impacts  
36 would be additional train traffic on the nearby railway tracks under Package A, creating minor  
37 noise and vibration increases over current levels, but not to a level that would impair the  
38 architectural qualities of this handsome historic depot. Noise levels are expected to increase 5  
39 dBA over existing conditions. This would not be a new or heightened condition from the  
40 historic times when the depot was operational and trains were frequently arriving and  
41 departing from this station.

42 The proposed transportation improvements would not substantially diminish or alter the  
43 architectural or setting characteristics that render the property eligible for the NRHP. FHWA,  
44 FTA and CDOT therefore have determined that Package A commuter rail improvements would  
45 result in *no adverse effect* to the resource.

1 Figure 3.15-55 5LR.488 (Colorado and Southern Railway Depot/Loveland Depot)  
2 Package A Commuter Rail



1 **5LR.1729.2 (Big Thompson Ditch)**

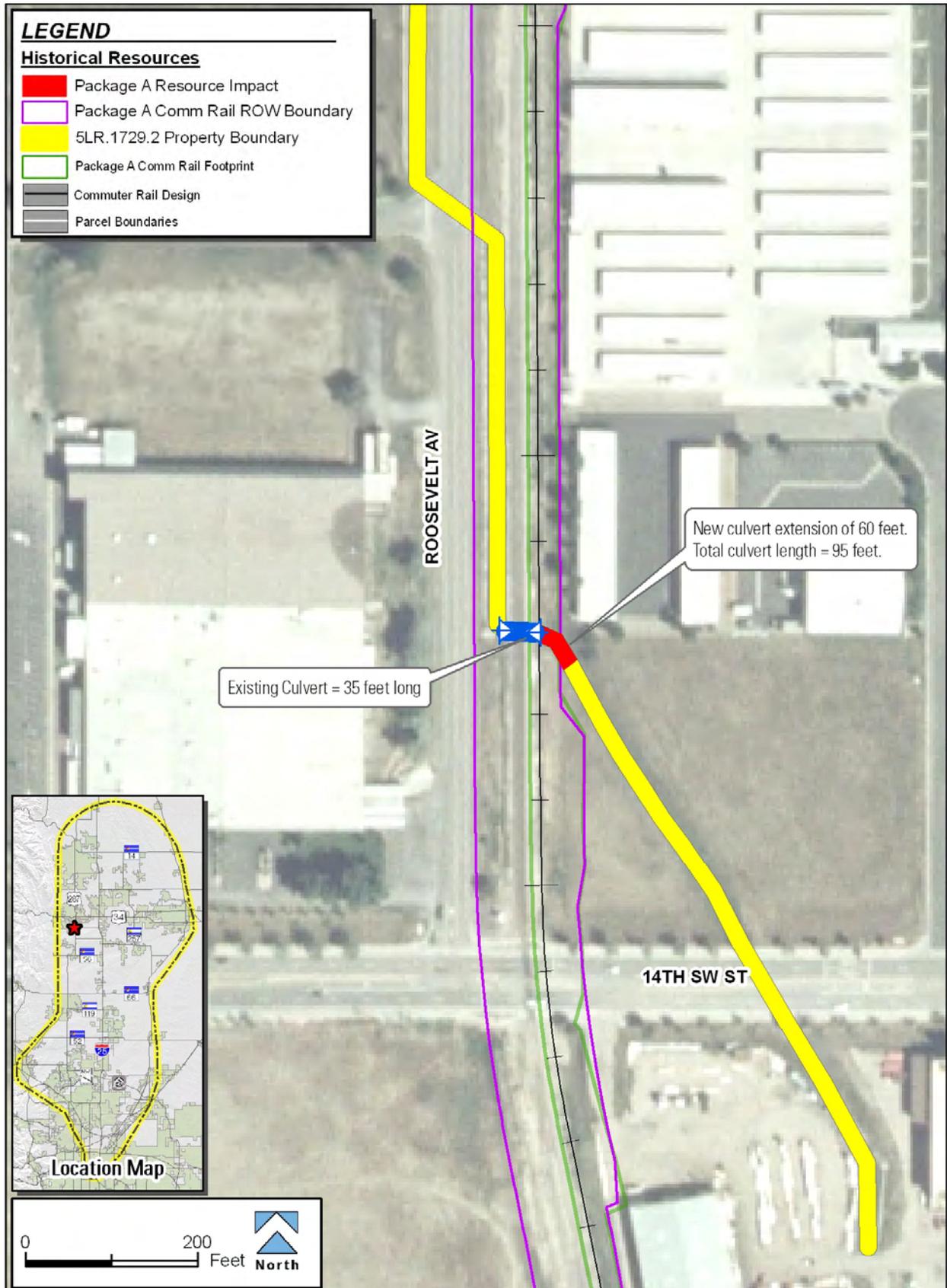
2 **Resource Description:** The entire ditch (5LR.1729) is 10 miles long and is one of the oldest  
3 in the area. The 2,216 foot long segment crosses the BNSF Railroad just north of SH 402 in  
4 Loveland. The ditch parallels the railroad for 485 feet before turning east and passing under  
5 the railroad in a CBC. The 6 foot wide ditch is concrete lined and west of the railroad and  
6 unlined east of the BNSF.

7 **Eligibility Determination:** The ditch is NRHP-eligible due to its ties to the town of Loveland  
8 and the successful development of high plains irrigation under Criterion A. The ditch has been  
9 realigned and concrete-lined, compromising the historic integrity within the setting, and is non-  
10 supportive of the greater site.

11 **Effects Determination—Package A:** Under Package A, the new commuter rail track would  
12 be placed east and adjacent to the exiting track (see **Figure 3.15-56**). At the existing BNSF  
13 crossing the ditch is conveyed underneath the railway in a 35 foot long culvert pipe. This pipe  
14 would be extended and the ditch realigned 60 feet east to accommodate the new track. Part of  
15 this length is to alter the ditch outfall from a perpendicular bend as it exits the railroad crossing  
16 to a smoother angled alignment, for the purpose of preventing ditch erosion during higher  
17 flows.

18 Because the qualities that make the entire resource NRHP-eligible have already been  
19 compromised by modifications associated with construction of the BNSF Railroad and  
20 Package A improvements are minor in relative extent, FHWA, FTA and CDOT therefore have  
21 determined that Package A would result in *no adverse effect* to the entire Big Thompson Ditch  
22 (5LR.1729).

1 Figure 3.15-56 5LR.1729.2 (Big Thompson Ditch) – Package A



1 **5LR.1710.1 (Handy Ditch)**

2 **Resource Description:** This segment of the Handy Ditch crosses under the railway alignment.  
3 The entire ditch is approximately 24 miles long. The segment within the project APE (5LR.1710.1)  
4 is 2.9 miles long and 24 feet wide from bank to bank. Both banks are covered by heavy riparian  
5 growth in many areas. The surrounding area includes residential development.

6 **Eligibility Determination:** In 1993, the OAHF officially determined the Handy Ditch to be  
7 NRHP-eligible. The ditch is eligible under Criteria A for its important association with the  
8 development of water rights and agriculture in Larimer County. This segment (5LR.1730.1)  
9 retains sufficient integrity to support the eligibility of the entire linear resource.

10 **Effect Determination:** None of the proposed commuter rail improvements would cause  
11 changes to this historic property. Due to the lack of direct and indirect impacts, FHWA, FTA  
12 and CDOT have determined that the Package A transit improvements would result in *no*  
13 *historic properties affected* with respect to this historic resource.

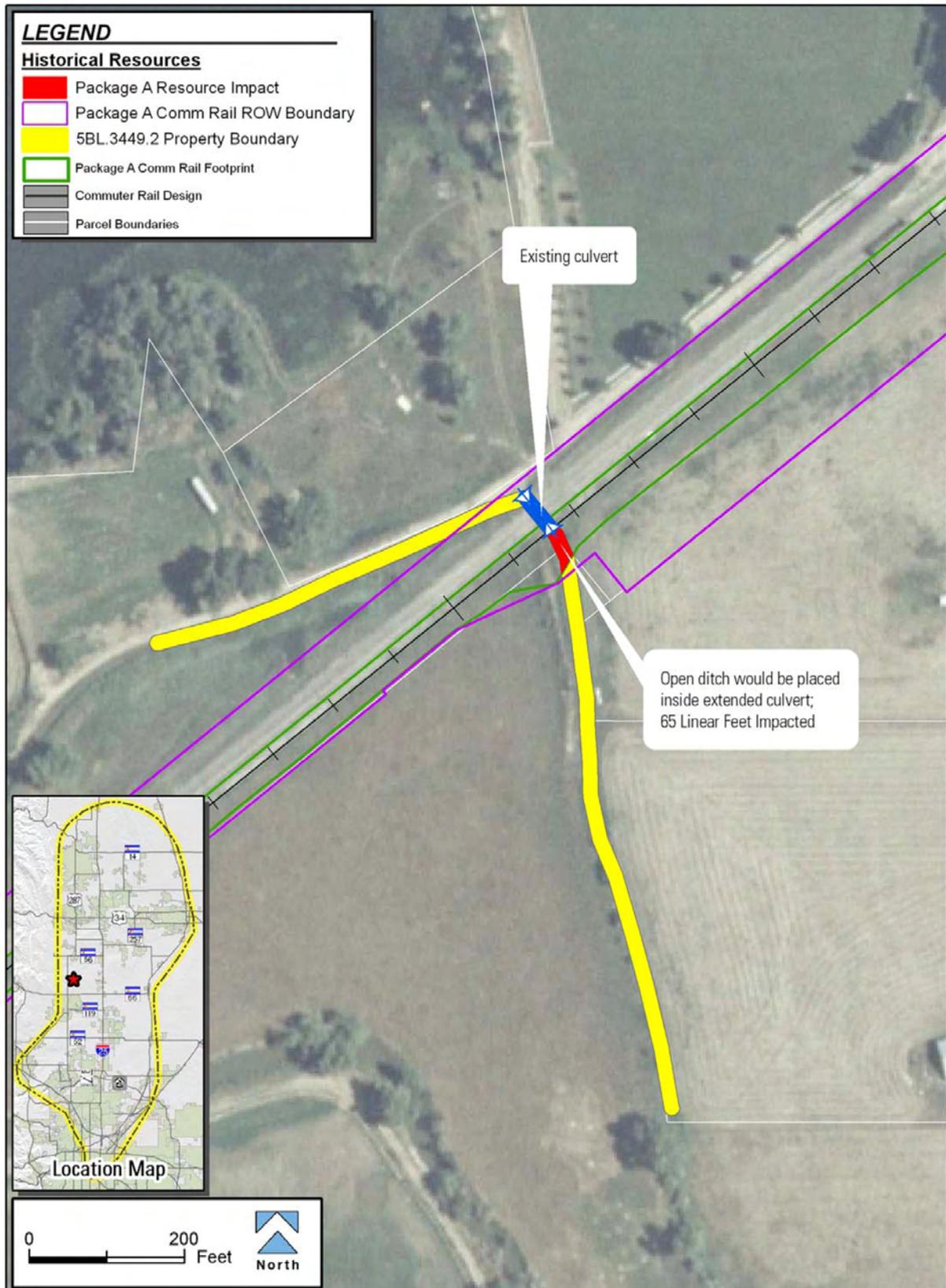
14 **5BL.3449.2 (Supply Ditch)**

15 **Resource Description:** The entire earthen ditch was constructed in 1861 and is  
16 approximately 22 miles long. The segment within the project APE (5LR.3449.2) is 100 feet  
17 long and follows its original historic alignment through the project area and is in good  
18 functional condition. This segment of the Supply Ditch crosses an active rail line in a culvert.  
19 Both banks are covered by heavy riparian growth in many areas. The surrounding area  
20 supports industrial and residential development.

21 **Eligibility Determination:** The Supply Ditch was determined to be NRHP-eligible by OAHF in  
22 1992. The ditch is eligible under Criterion A for its important association with the development  
23 of water rights and agriculture in Boulder County. This segment (5BL.3449.2) retains sufficient  
24 integrity to support the eligibility of the entire linear resource.

25 **Effect Determination:** The historic Supply Ditch currently crosses an active railroad line via a  
26 culvert. The proposed commuter rail line would be aligned 20 feet north and parallel to the  
27 existing railroad. The elevated embankment carrying the new tracks and ballast would require  
28 an area approximately 65 feet wide. Thus, 65 feet of the open ditch would have to be placed in  
29 a new culvert beneath the new commuter rail line on the south side of the existing rail line (see  
30 **Figure 3.15-57**). The portion of the ditch subject to direct impact by the commuter rail line is in  
31 close proximity to a preexisting impacted section (crossing under the active rail line). This  
32 additional impact would not substantially diminish the qualities that make this resource NRHP  
33 eligible. The proposed modifications affect a relatively small section of the 22 mile-long linear  
34 resource. FHWA, FTA and CDOT have determined that the Package A transit improvements  
35 would result in *no adverse effect* to the entire Supply Ditch.

1 Figure 3.15-57 5BL.3449.2 (Supply Ditch) – Package A



2

1 **5BL.3114.28 (Highland Ditch)**

2 **Resource Description:** This segment of the historic earthen Highland Ditch passes beneath  
3 the UPRR railway alignment via a bridge. The entire ditch is approximately 24.2 miles long.  
4 The segment within the project APE (5BL.3114.28) is 100 feet long. Both banks of the ditch  
5 are covered by riprap in many areas. Grass and riparian growth cover the ditch levees. The  
6 surrounding area supports rural residential development.

7 **Eligibility Determination:** In 1991, the OAHP officially determined the Highland Ditch to be  
8 NRHP-eligible under Criterion A for its important association with the development of water  
9 rights and agriculture in Boulder County. This segment (5BL.3114.28) retains sufficient  
10 integrity to support the eligibility of the entire linear resource.

11 **Effect Determination:** None of the proposed commuter rail improvements would cause  
12 changes to this historic property. Due to the lack of direct and indirect impacts, FHWA, FTA  
13 and CDOT have determined that the Package A transit improvements would result in *no*  
14 *historic properties affected* with respect to this historic resource.

15 **5BL.3113.67 (Rough & Ready Ditch)**

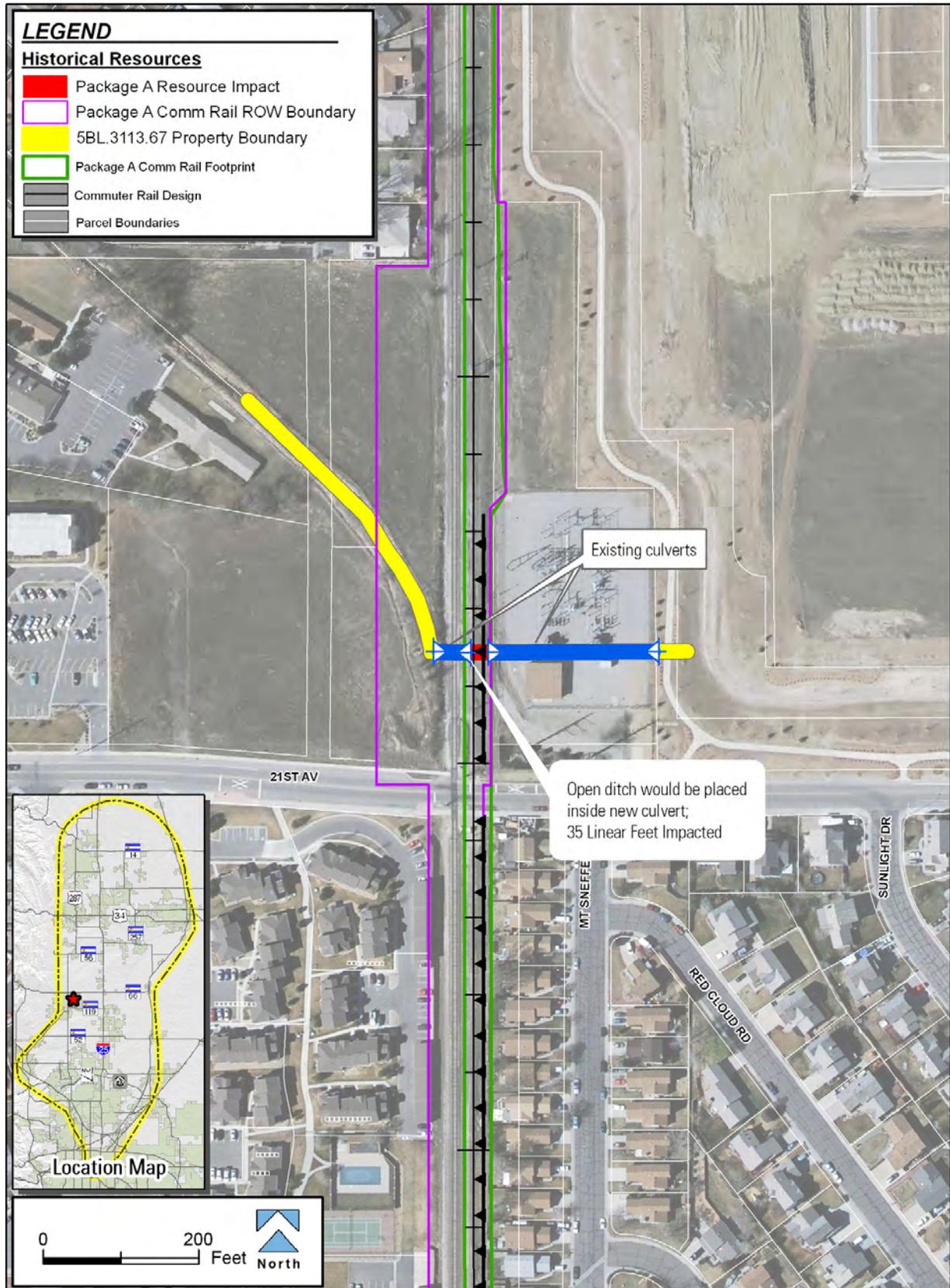
16 **Resource Description:** This segment of the historic earthen Rough & Ready Ditch crosses  
17 under the active UPRR railway alignment via a concrete culvert. The entire ditch is  
18 approximately 16.5 miles long. The segment within the project APE (5BL.3113.67) is 100 feet  
19 long. This segment is the oldest portion of the ditch, with water appropriated in 1869. The ditch  
20 is 20 feet wide and 6 feet deep, is in good condition, and much of its length follows the historic  
21 alignment. At the east side of the railway crossing, the ditch is piped underground beneath a  
22 power substation. Well developed riparian growth exists along both banks of the ditch in many  
23 areas. The surrounding area supports rural residential development.

24 **Eligibility Determination:** In 1991, the OAHP officially determined the entire Rough & Ready  
25 Ditch (5BL.3113) to be NRHP-eligible under Criterion A for its important association with the  
26 development of water rights and agriculture in Boulder County. The segment within the project  
27 APE (5BL.3113.67) retains sufficient integrity to support the eligibility of the entire linear  
28 resource.

29 **Effect Determination:** The historic Rough & Ready Ditch currently crosses the active railroad  
30 line inside a modern concrete culvert. The proposed commuter rail line would be aligned 20 feet  
31 northeast and parallel to the existing railroad. The elevated embankment supporting the new  
32 tracks and ballast would require an area approximately 35 feet wide. Thus, 35 feet of the open  
33 ditch would have to be placed in a new culvert beneath the new commuter rail track and ballast  
34 on the south side of the existing rail line (see **Figure 3.15-58**).

35 The portion of the ditch subject to direct impact by the commuter rail line is in close proximity  
36 to a preexisting impacted section (crossing under the active rail line). This additional impact  
37 would not substantially diminish the qualities that make this resource NRHP eligible. The  
38 proposed modifications affect a relatively small section of the 16.5 mile-long linear resource.  
39 FHWA, FTA and CDOT have determined that the Package A transit improvements would  
40 result in *no adverse effect* to the entire Rough & Ready Ditch.

1 Figure 3.15-58 5BL.3113.67 (Rough & Ready Ditch) – Commuter Rail



2

1 **5BL.4832 (Oligarchy Ditch)**

2 **Resource Description:** The entire earthen ditch is approximately 15.6 miles long. The ditch  
3 has been associated with Boulder County irrigation since its first appropriation date of 1861,  
4 which is among the oldest in the county. Two segments of the ditch cross the APE (see **Figure**  
5 **3.15-59**). Segment 5BL.4832.28 crosses the active railway alignment in a culvert. This  
6 segment is 100 feet long, 21 feet wide and 6 feet deep. Both banks of the ditch are covered  
7 by heavy riparian growth in many areas. The surrounding area supports rural residential  
8 development.

9 A second Oligarchy Ditch segment (5BL.4832.26) follows a meandering course through the  
10 proposed commuter rail alignment. This segment in the project APE is one mile long. Well  
11 developed riparian growth exists along both banks of the ditch in some areas. The surrounding  
12 area supports semi-rural residential development.

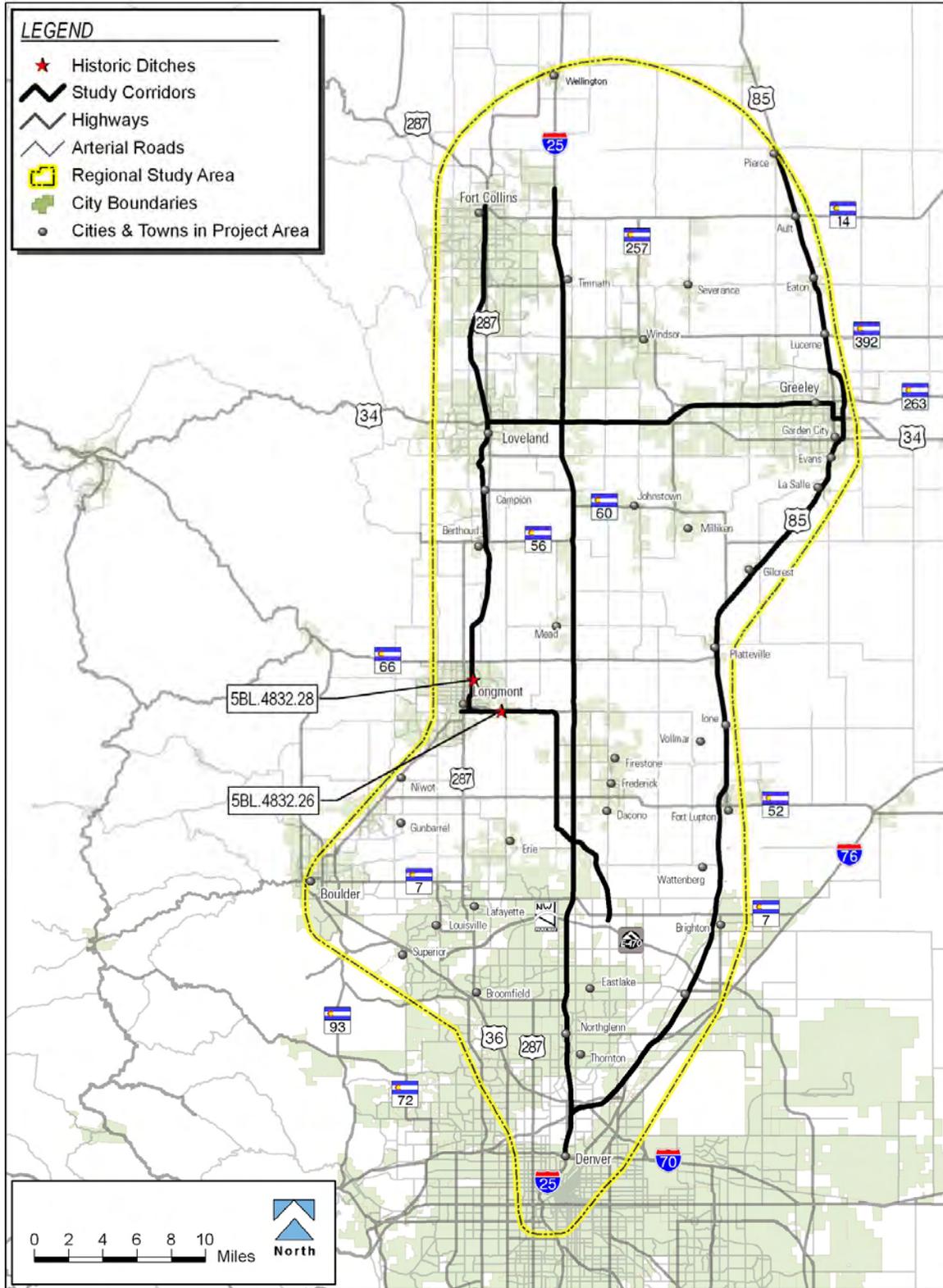
13 **Eligibility Determination:** The Oligarchy Ditch is NRHP-eligible under Criterion A for its important  
14 association with the development of water rights and agriculture in Boulder County. The two  
15 segments located within the APE retain sufficient integrity to support the eligibility of the entire  
16 linear resource.

17 **Effect Determination:**

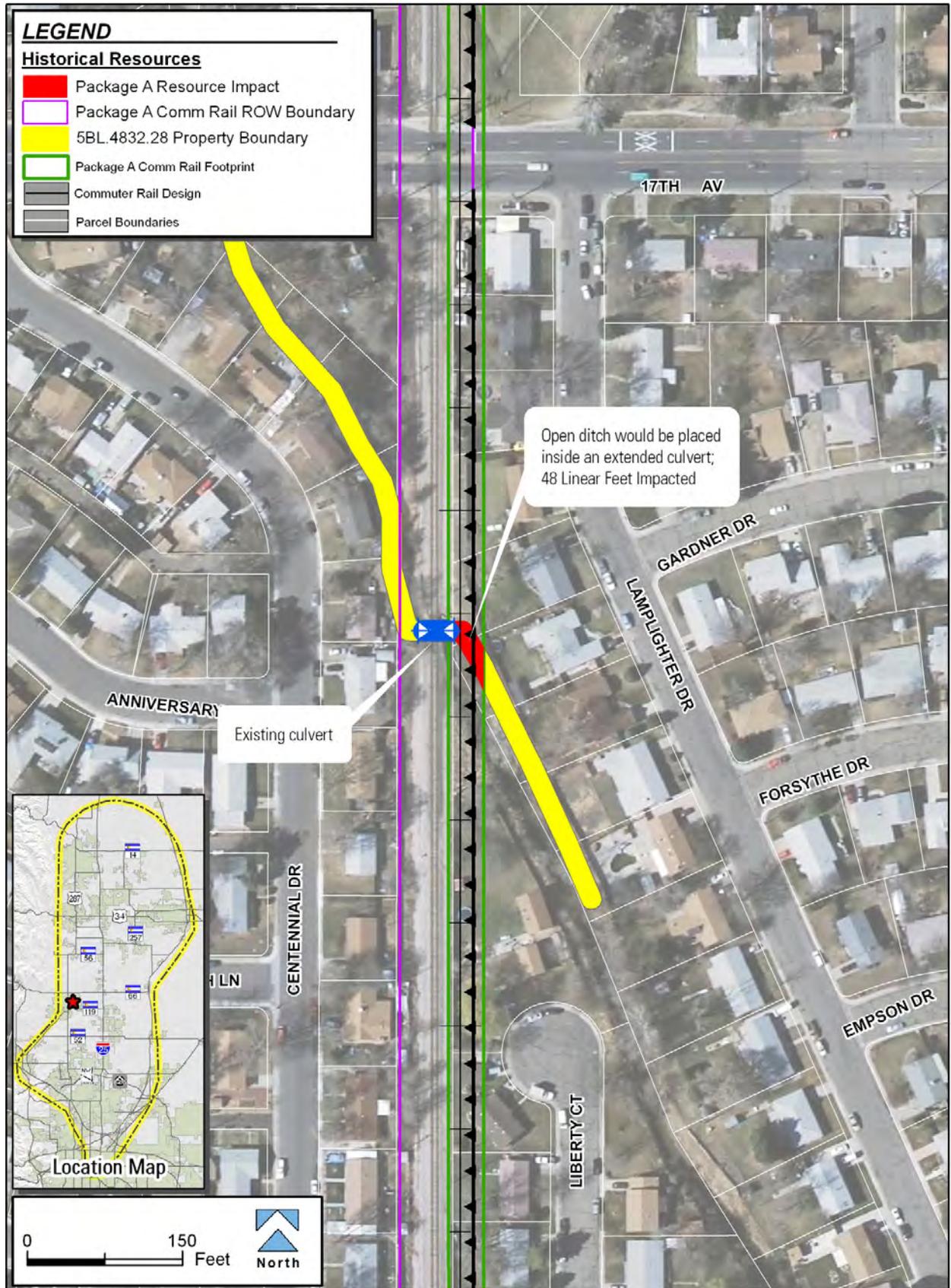
18 In order to determine the effect to the entire linear resource, impacts to each of the segments  
19 passing through the project APE were assessed. These impact assessments are presented  
20 below, followed by a determination of effect to the entire Oligarchy Ditch (5LR.4832).

21 **Impacts to segment 5BL.4832.28—Package A:** The proposed commuter rail line would be  
22 aligned 20 feet northeast and parallel to the existing railroad. The new embankment supporting  
23 the tracks and ballast and ballast would require an area approximately 48 feet wide. Thus, the  
24 existing culvert that carries Oligarchy Ditch underneath the railway would be extended, impacting  
25 48 feet of the open ditch that would have to be placed in a new culvert beneath the new commuter  
26 rail line on the south side of the existing rail line (see **Figure 3.15-60**). Although the physical  
27 integrity of the ditch segment would be compromised by placing a portion of it into a culvert, this  
28 change affects only a very small percentage of the overall linear resource.

1 Figure 3.15-59 5BL.4832 (Oligarchy Ditch) – Segments intersecting project APE  
2



1 Figure 3.15-60 5BL.4832.28 (Oligarchy Ditch) – Package A Commuter Rail  
2



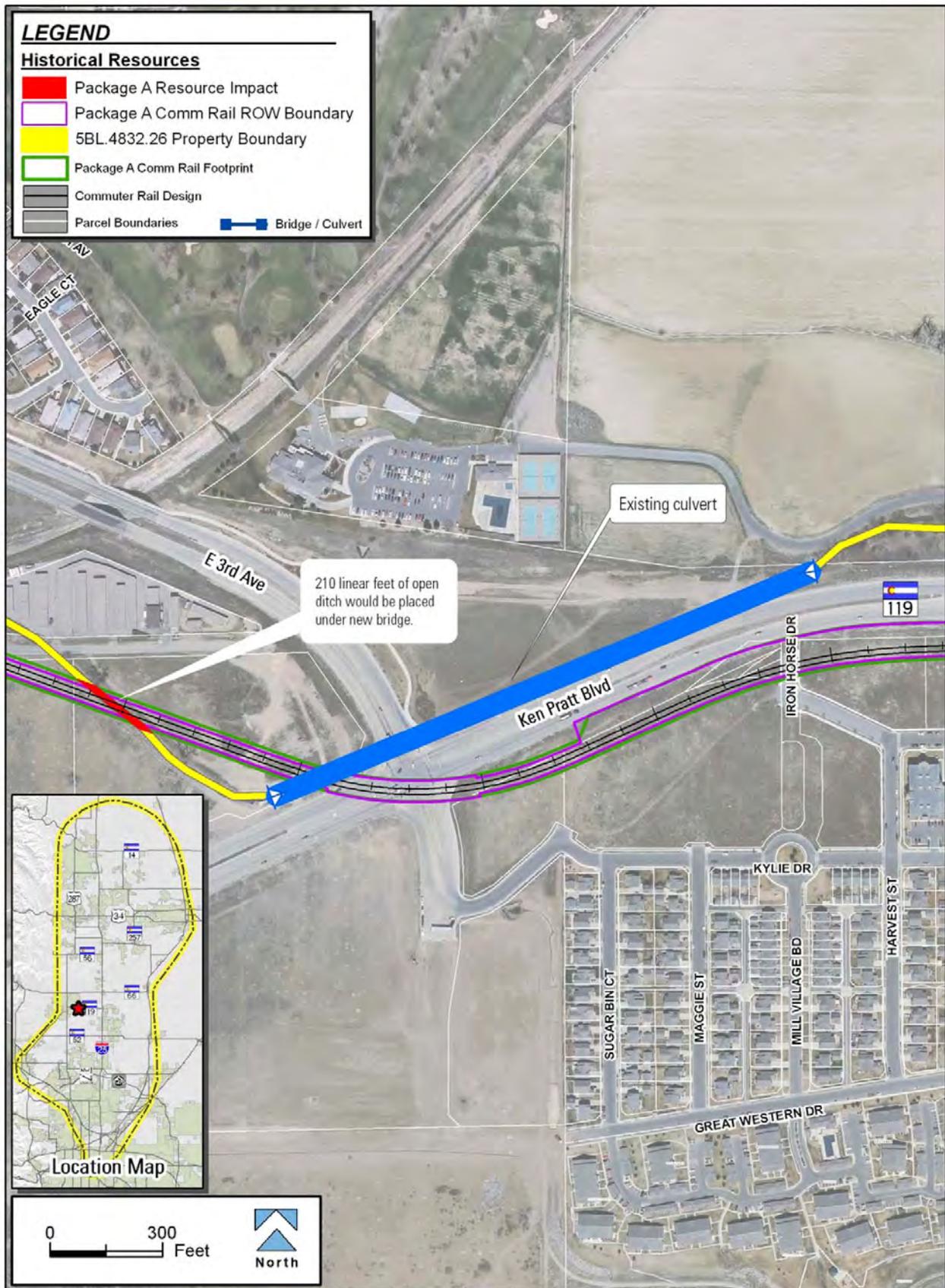
1 **Impacts to segment 5BL.4832.26—Package A:** Portions of this segment of the historic  
2 Oligarchy Ditch would pass through the proposed route of the new commuter rail line. The ditch  
3 meanders across this area, often running parallel to the planned railroad alignment. A segment of  
4 the ditch was realigned during construction of Ken Pratt Blvd. (SH 119), with the old channel  
5 being covered up and a 1,200 foot-long portion of the ditch placed in a 1,200 foot long culvert  
6 underneath 3<sup>rd</sup> Avenue and SH 119. The railway alignment follows a broad sweeping curve, and  
7 intersects the irregular course of the ditch west of 3<sup>rd</sup> Avenue. Because the ditch and railroad  
8 alignments generally run parallel, a 210 foot-long stretch of the open ditch would have to be  
9 bridged by a new railroad structure. A total length of 210 feet of open ditch would be spanned by  
10 a new bridge (see **Figure 3.15-61**). The resulting overhead cover would shade the portion of the  
11 ditch located underneath the bridge, but all structural support elements such as piers or  
12 abutments, would be placed outside of the historic boundary and would not result in a direct  
13 impact to the ditch. The physical setting of the ditch segment would not be substantially  
14 compromised by placing a portion of it underneath a bridge structure.

15 **Summary Effect Determination:**

16 **Package A:** A cumulative total of 48 feet of open ditch would be placed inside a new culvert  
17 (5BL.4832.26) and 210 feet of open ditch would flow underneath a new bridge (5BL.4832.28).  
18 Temporary construction impacts would occur during culvert installation. Because the physical  
19 integrity of the ditch segment would not be substantially compromised by placing a portion of it  
20 inside a culvert and underneath a bridge structure, and these changes affect only a very small  
21 percentage of the overall linear resource, FHWA, FTA and CDOT have determined that the  
22 Package A commuter rail improvements would result in *no adverse effect* to the entire  
23 Oligarchy Ditch (5LR.4832).

24 **Package B:** There are no direct or indirect impacts to the resource resulting from  
25 improvements associated with Package B, therefore FHWA, FTA and CDOT have determined  
26 that Package B would result in *no historic properties affected* with respect to the entire  
27 Oligarchy Ditch.

1 Figure 3.15-61 5BL.4832.26 (Oligarchy Ditch) – Package A Commuter Rail  
2



1 **5BL.10636 (Boggs Residence)**

2 **Resource Description:** This residence, located at 122 8<sup>th</sup> Ave. in Longmont, was built in  
3 1939. It was the home of a local carpenter, Joe Boggs and displays elements of the  
4 Mediterranean style including stucco walls and an arcaded porch.

5 **Eligibility Determination:** This structure is significant under Criterion C as a good example of  
6 an early twentieth century vernacular home with some Mediterranean style elements including  
7 an arcaded porch.

8 **Effect Determination—Package A:** There would be no direct effect to this property (see  
9 **Figure 3.15-62**). The commuter rail alignment would stay on the existing single-track rail  
10 through this segment. Indirect effects include additional train traffic on the railway tracks  
11 under Package A, creating minor vibration increases over current levels, but not to a level that  
12 would impair the architectural qualities of this residential building. Noise levels are expected to  
13 be the same as existing conditions.

14 The proposed transportation improvements would not substantially diminish or alter the  
15 architectural or setting characteristics that render the property eligible for the NRHP. FHWA,  
16 FTA and CDOT therefore have determined that Package A commuter rail improvements would  
17 result in *no adverse effect* to the resource.

18 **COMMUTER RAIL: LONGMONT TO FASTRACKS NORTH METRO**

19 This segment uses the existing track in the area between downtown Longmont to SH 119.  
20 From that point, a new double-track rail alignment continues to the east along SH 119 and  
21 then south along the west side of WCR 7, then southeast along UPRR right-of-way to  
22 FasTracks North Metro. There are 12 historic properties in this component of commuter rail.

23 **5BL.1245 (Old City Electric Building)**

24 **Resource Description:** The Old City Electric Building (5BL.1245) is located at 103 Main  
25 Street in Longmont. It is an excellent example of 1930s industrial architecture featuring large  
26 windows, an open plan and solid brick construction. This building served the city's power  
27 needs from 1931 to 1969. Longmont was one of the first cities in Colorado to develop a  
28 municipally owned electric generation plant.

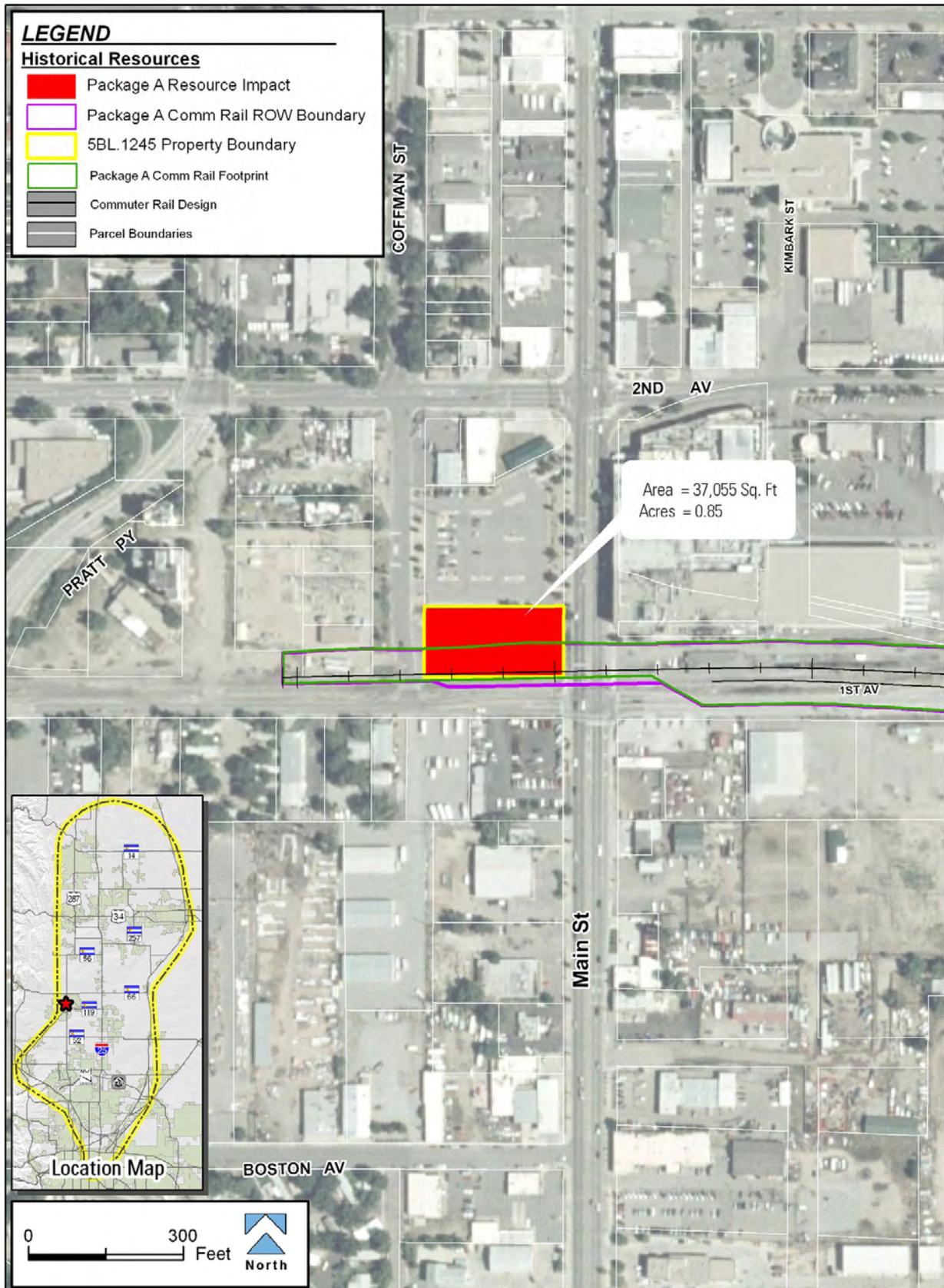
29 **Eligibility Determination:** The Old City Electric Building is eligible for the NRHP under  
30 Criterion A for its significant role in the development of Longmont, and under Criterion C as an  
31 excellent, intact example of industrial architecture. This early power generation plant has also  
32 been designated as a Local Landmark by the City of Longmont.

33 **Effect Determination:** Construction of a new commuter railroad line alongside the existing  
34 commercial rail line on the north side of 1<sup>st</sup> Avenue in Longmont would require acquisition of  
35 new right-of-way, including 0.85 acres of land containing this historic building. The building  
36 would need to be demolished or moved to a new location to accommodate the new commuter  
37 rail line tracks and associated construction activities (see **Figure 3.15-63**). This direct effect  
38 would result in the major reduction or loss of integrity of this resource, and FHWA, FTA and  
39 CDOT therefore have determined that an *adverse effect* to this resource would result. Details  
40 of mitigation for this effect are discussed under **Section 3.15.3**.

1 Figure 3.15-62 5BL.10636 (Boggs Residence) – Package A Commuter Rail



1 Figure 3.15-63 5BL.1245 (Old City Electric Building) – Package A Commuter Rail



1 **5BL.1244 (Colorado & Southern/BNSF Depot)**

2 **Resource Description:** The  
3 historic Colorado &  
4 Southern/BNSF Depot (5BL.1244)  
5 is located at 100 Main Street in  
6 Longmont. The depot was built in  
7 1905. It is one of the two early  
8 railroad depots in Longmont and  
9 is one of the finest small masonry  
10 depots in the state. The depot is  
11 the only extant Richardsonian  
12 Romanesque style building in  
13 Longmont.



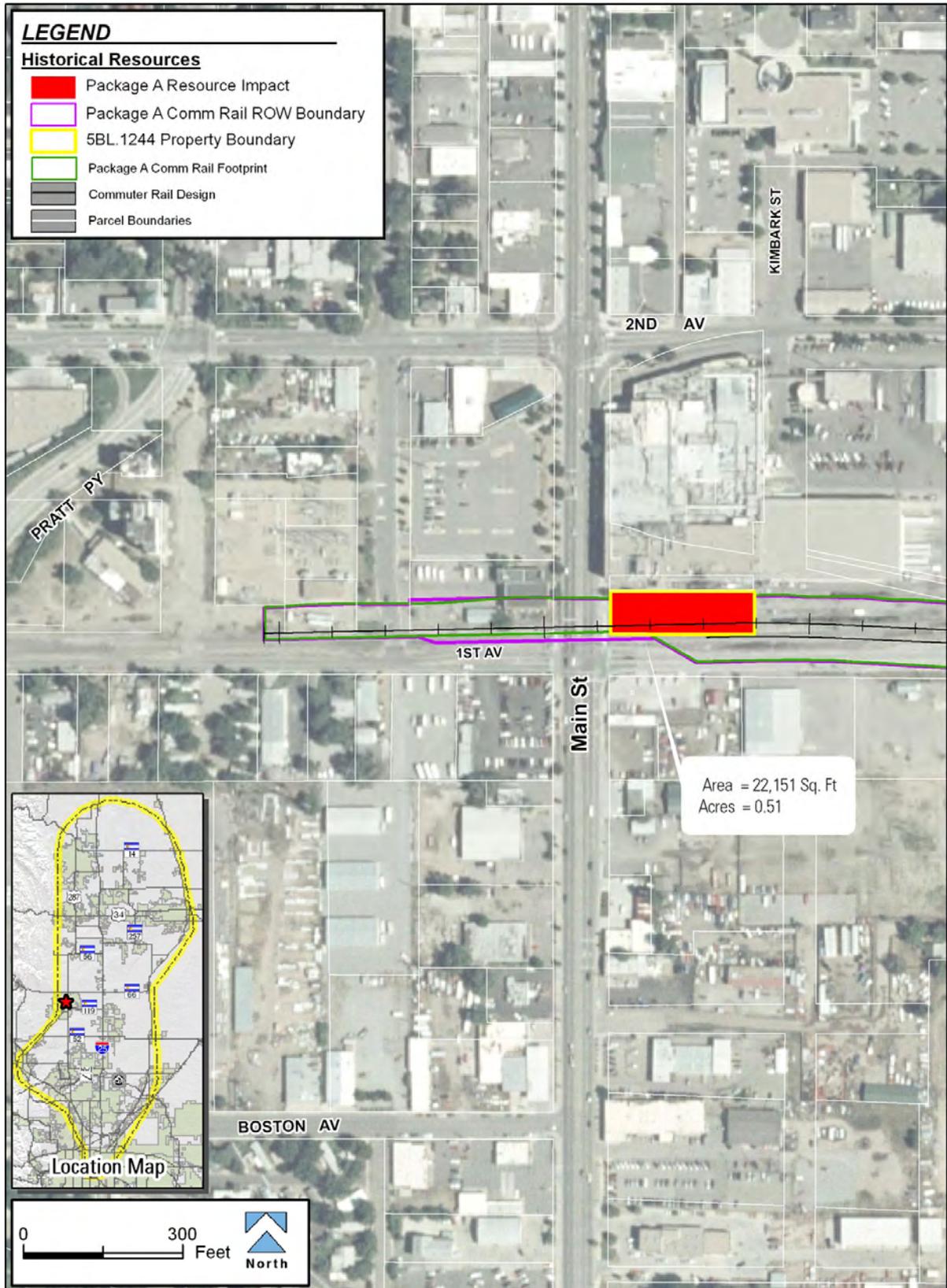
Colorado & Southern/BNSF Depot

14 **Eligibility Determination:** This depot (5BL.1244) is NRHP-eligible under Criterion A for its  
15 association with railroad transportation and its contribution to the development of Longmont.  
16 The building is also NRHP-eligible under Criterion C as an excellent and well preserved  
17 example of masonry railroad depot architecture in Colorado.

18 **Effect Determination:** Construction of a new commuter railroad line alongside the existing  
19 commercial rail line on the north side of First Avenue in Longmont would require acquisition of  
20 new right-of-way, including the 0.51 acre of land occupied by this historic building (see **Figure**  
21 **3.15-64**). The building would need to be demolished or moved to another location to  
22 accommodate the new commuter rail tracks and associated construction activities. This direct  
23 effect would result in the major reduction or loss of integrity of this resource, and FHWA, FTA  
24 and CDOT therefore have determined that an *adverse effect* to this resource would result.  
25 Details of mitigation for this effect are discussed under **Section 3.15.3**.

26

1 Figure 3.15-64 5BL.1244 (Colorado & Southern/BNSF Depot) – Package A  
2 Commuter Rail



3

1 **5BL.513 (Great Western Sugar Factory)**

2 **Resource Description:** The Great Western Sugar Factory is located at 11939 and 11801  
3 Sugarmill Road in Longmont. This sugar beet processing factory was built in 1903 and  
4 operated into the 1970s. The 3.72 acre factory site contains several beet processing buildings  
5 as well as industrial features including storage silos located north of Sugarmill Road.

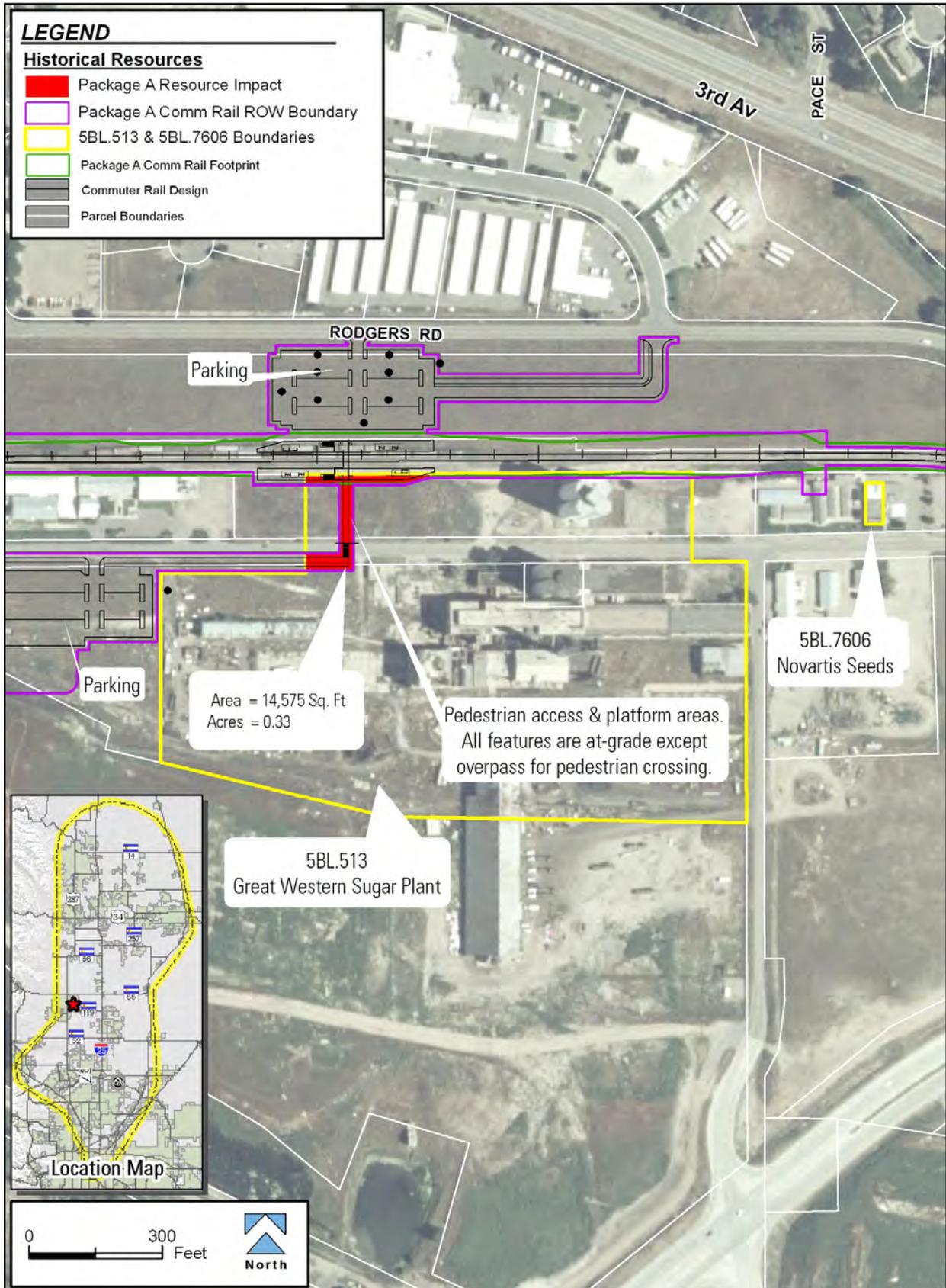
6 **Eligibility Determination:** The Great Western Sugar Factory (5BL.513) is eligible for the  
7 NRHP under Criterion A for its significant role in the very important sugar beet industry in  
8 Colorado, as well as its major contribution to the economic development of the Longmont  
9 area.

10 **Effect Determination:** Proposed commuter rail improvements in the vicinity of the Great  
11 Western Sugar factory site include a station platform, park-and-ride lots, and a pedestrian  
12 walkway from the station platform to the south parking lot. The station platform intrudes slightly  
13 into the north edge of the sugar factory site, and the proposed pedestrian walkway extends  
14 from the platform through the northwestern corner of the property to access a proposed  
15 parking lot that would be located just west of the factory site. The design and cross-section of  
16 a typical commuter rail station is depicted in **Figure 3.15-10**. These direct impacts amount to  
17 0.33 acres, or approximately nine percent of the 3.72-acre property. None of the buildings or  
18 other standing industrial features that contribute to the property's significance would be  
19 affected by these commuter rail facilities (see **Figure 3.15-65**).

20 There would be additional train traffic on the nearby railway tracks under Package A, creating  
21 minor noise and vibration increases over current levels, but no impacts. This would not be a  
22 new or heightened condition from the historic times when the factory was operational and  
23 relied on frequent train transport of beets and lime for sugar production, and shipment of  
24 finished sugar.

25 The proposed transportation improvements would not substantially diminish or alter the  
26 architectural or setting characteristics that render the property eligible for the NRHP. FHWA,  
27 FTA and CDOT therefore have determined that Package A commuter rail improvements would  
28 result in *no adverse effect* to the resource.

1 Figure 3.15-65 5BL.513 (Great Western Sugar Plant and Novartis Seeds/  
2 Syngenta Seeds) – Package A Commuter Rail



1

2 **5BL.7606 (Novartis Seeds/Syngenta Seeds)**

3 **Resource Description:** This large, one-story brick office building was constructed in 1951  
4 near the Great Western Sugar factory in Longmont. The building is covered by a flat roof with  
5 wide overhanging eaves. Its façade is symmetrically arranged, with a central entry flanked by  
6 banks of nine casement windows. The building appears unaltered, and is a good example of  
7 International Style commercial architecture. The building is currently occupied by Novartis  
8 Seeds/Syngenta Seeds. Syngenta Seeds is a global leader in the agribusiness industry.

9 **Eligibility Determination:** The Novartis Seeds/Syngenta Seeds office in Longmont  
10 (5BL.7606) is eligible for the NRHP under Criterion C as a well preserved specimen of  
11 International Style commercial architecture in Colorado.

12 **Effect Determination:** Proposed commuter rail improvements in the vicinity of the Novartis  
13 Seeds/Syngenta Seeds office building southwest of Longmont are limited to construction of a  
14 second, dedicated commuter rail track parallel to the existing standard gauge commercial rail  
15 line that runs in an east-west alignment a short distance north of the property. A passenger  
16 station with park and ride lot and platform would be located a short distance to the west, in the  
17 vicinity of the historic Longmont sugar factory (5BL.513). The 0.08 acre Novartis  
18 Seeds/Syngenta Seeds building site would not be directly impacted by the alternative (see  
19 **Figure 3.15-65**).

20 There would be additional train traffic on the nearby railway tracks under Package A, creating  
21 minor noise and vibration increases over current levels, but not to a level that would impair the  
22 architectural qualities of this commercial/industrial building. FHWA, FTA and CDOT therefore  
23 have determined that Package A would result in *no adverse effect* to the resource.

1 **5WL.5278 (William H. Dickens Farm)**

2 **Resource Description:** The William H. Dickens farm (5WL.5278) is located at 545 SH 119 in  
3 Longmont. This farm is associated with one of the earliest settlers in the St. Vrain Valley,  
4 William H. Dickens. Dickens became a prominent area farmer and businessman, and was  
5 responsible for building the Dickens Opera House in Longmont. Dickens's step-father, Alonzo  
6 N. Allen, was the first Euro-American to settle in the St. Vrain drainage. The 155 acre farm  
7 includes a farmhouse, large barn and five outbuildings. The historic boundary includes land  
8 originally within the 1915 land boundary which is still being used for agriculture.

9 **Eligibility Determination:** This farm (5WL.5278) is NRHP-eligible under Criterion B for its  
10 association with the early St. Vrain Valley settler William H. Dickens. Additionally, the farm  
11 contains an intact example of a large wood frame barn with distinctive architectural features  
12 including a gabled front rain hood, narrow horizontal siding, which is eligible for the NRHP  
13 under Criterion C.

14 **Effect Determination:** None of the proposed commuter rail improvements along SH 119  
15 would cause changes to this historic property. Due to the lack of direct and indirect impacts,  
16 FHWA, FTA and CDOT have determined that the Package A commuter rail improvements  
17 would result in *no historic properties affected* with respect to this historic resource.

18 **5WL.2877.1 (Union Reservoir Outlet Ditch/Coffin Spring Gulch Ditch)**

19 **Resource Description:** The entire ditch is approximately 1.8 miles long. This segment of the  
20 ditch (5WL.2877.1) crosses the railroad along the south edge of SH 119. The portion of the  
21 ditch that crosses under the railway is placed in a culvert. The segment occurring within the  
22 project APE (5WL.2877.1) is 5,042 feet (0.95 mile) long. Both banks are covered by heavy  
23 riparian growth in many areas. The surrounding area supports semi-rural residential  
24 development.

25 **Eligibility Determination:** The Union Reservoir Ditch (5WL.2877.1) south of SH 119 was  
26 previously recorded in association with the Sandstone Ranch (5WL.712). The ditch was  
27 officially declared NRHP-eligible by OAHF in 1998 under Criterion A for its important  
28 association with the development of water rights and agriculture in Weld County. When re-  
29 evaluated for the North I-25 Draft EIS, the length of the ditch segment was extended  
30 northward across SH 119 to the northern edge of the North I-25 project corridor.

31 **Effect Determination:** Although a new dedicated commuter rail line would be constructed  
32 along the south edge of existing SH 119 in this area, this historic ditch is already placed within  
33 a culvert beneath the proposed rail corridor where it is conveyed across SH 119 and thus  
34 would not be subject to additional direct impacts. The ditch exits the culvert at the south edge  
35 of the proposed new rail corridor. The proposed improvements along SH 119 would not cause  
36 changes to this historic property. Due to the lack of direct and indirect impacts, FHWA, FTA  
37 and CDOT have determined that Package A would result in *no historic properties affected* with  
38 respect to this historic resource.

1 **5WL.712 (Sandstone Ranch)**

2 **Resource Description:** The Sandstone Ranch is located on SH 119 just east of Longmont.  
3 The ranch is associated with Morse Coffin, one of the early settlers in this area. Morse Coffin  
4 settled in Boulder County in 1859 and became a preeminent agriculturalist and co-founder of  
5 the first public school district in Colorado. The City of Longmont now owns the ranch property,  
6 which is now designated Sandstone Ranch Park. Portions of the former ranch have been  
7 altered recently by gravel mining, post-mining reclamation, and multi-use recreational  
8 development by the City of Longmont. The only intact ranchland in the northern portion of the  
9 property is a riparian corridor surrounding the Union Reservoir Outlet Ditch/ Coffin Spring  
10 Gulch Ditch (5WL.2877.1).

11 **Eligibility Determination:** The ranch was NRHP-listed in 1984 under Criteria A, B, and C.  
12 The Sandstone Ranch is eligible under Criterion A because of its important association with  
13 early settlement and agricultural development in Weld County. It is also eligible under Criterion  
14 B because of its direct association with Morse H. Coffin, an important historical figure, and  
15 under Criterion C because of the architectural significance of the Coffin farmhouse. The  
16 historic district boundary is currently being evaluated for re-definition to exclude the areas  
17 modified by construction of public recreational facilities and areas modified by gravel mining.

18 **Effect Determination:** Widening of SH 119 to accommodate the proposed commuter rail  
19 facilities would necessitate acquisition of new right-of-way within the extreme northern edge of  
20 the Sandstone Ranch historic district. This land would be needed to provide space for the new  
21 Commuter Rail bed, tracks, and ballast. The area subject to direct impacts comprises 2.17  
22 acres, or less than one percent of the entire 337.22-acre historic district. In addition to the  
23 small size of the impacted area, the northern portion of the historic district has lost most of its  
24 integrity due to recent development of sports fields by the City of Longmont (see **Figure**  
25 **3.15-66**).

26 The historic ranch buildings are located too far away to be affected by noise and vibration  
27 impacts from passing trains. The commuter rail tracks would run along the edge of the  
28 northern portion of the historic district that has lost nearly all integrity. No indirect effects are  
29 expected which would harm the function, setting, atmosphere, or attributes that render this  
30 district NRHP-eligible.

31 The proposed transportation improvements would not substantially diminish or alter  
32 characteristics that render the property eligible for the NRHP. For all of these reasons, FHWA,  
33 FTA and CDOT have determined that Package A would result in *no adverse effect* to the  
34 resource.